MINUTES
TOWN OF AMHERST
AMHERST PLANNING BOARD MEETING
August 21, 2025
6:30 PM

The Planning Board will hold a public work session at 6:00PM in the Amherst Municipal Building, 5583 Main Street, Williamsville, NY 14221 on the same date.

This meeting is being video recorded.

ROLL CALL

Attendee Name	Organization	Title	Status	Arrived
Michael Chmiel	Town of Amherst	Chair	Present	
John B. Davis	Town of Amherst	Board Member	Present	
Harbinder Gill	Town of Amherst	Board Member	Present	
Carrie H. Kahn	Town of Amherst	Board Member	Present	
Brittany Lee Penberthy	Town of Amherst	Board Member	Absent	
Joseph P. Raffaele Jr.	Town of Amherst	Board Member	Present	
Jonathan O'Rourke	Town of Amherst	Board Member	Present	
Dan Howard	Town of Amherst	Planning Director	Present	
Daniel J. Ulatowski	Town of Amherst	Assistant Planning Director/ZEO	Present	
Scott Marshall	Town of Amherst	Principal Planner	Present	
Gary Palumbo	Town of Amherst	Associate Planner	Present	
Amy Carrato	Town of Amherst	Community Development Assistant	Present	

Samuel A. Alba	Town of Amherst	Senior Deputy Town Attorney	Present	

MINUTES APPROVAL

July 24, 2025
Mr. O'Rourke moved to approve the minutes. The motion was seconded by Mr. Raffaele and carried. Ayes 5, Noes 0, Abstain 1 (Gill), Absent 1 (Penberthy).

Note: There will be no public hearing or opportunity to speak for the projects listed under the Unfinished Business section of this agenda.

Please note the following time limits for speakers at public hearings:

- **Presentation by Petitioner: 15 minutes**
- **Rebuttal by neighborhood/resident spokesperson: 15 minutes**
- **Individual speakers: 3 minutes**

PUBLIC HEARINGS

SITE PLANS & RELIEF FROM CONDITIONS OF SITE PLANS

1. PROPOSED WAREHOUSE OFFICE BUILDING, SP-2024-10
Property located at 5500 Millersport Highway
Stephens Property Holdings LLC, Petitioner

The proposed project involves the redevelopment of a 4.98-acre site for a 14,110-sf warehouse building, shop areas and office space along with six (6) tenant garage spaces, and associated utility, lighting and landscaping improvements.

January 16, 2025

No comments were heard on this proposal.

Following discussion, Mr. Raffaele moved to adjourn the request. The motion was seconded by Mr. Gill and carried. Ayes 5, Noes 0, Absent 2 (Kahn, Penberthy).

August 21, 2025

Doug Feyes, Carmina Wood Design, and Mike Berger, Sutton Architecture, represented the petitioner, explained the proposal and were available to answer questions from the Board.

No further comments were heard on this proposal. The hearing was closed.

Following discussion, Mr. O'Rourke moved to approve the Negative Declaration. The motion was seconded by Mr. Raffaele carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the approval of the Negative Declaration, Mr. O'Rourke moved to approve the sidewalk waiver. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the approval to the sidewalk waiver, Mr. Raffaele moved to approve the request based on the resolution. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Joseph P. Raffaele Jr., Board Member
SECONDER:	Carrie H. Kahn, Board Member
AYES:	Chmiel, Davis, Gill, Kahn, Raffaele Jr., O'Rourke
ABSENT:	Penberthy

2. PROPOSED OFFICE BUILDING (SURGERY CENTER), SP-2025-05
Property located at 1692 Maple Road
1692 Maple Road LLC, Petitioner

Proposed 9,000 sq. ft. single-story ambulatory surgery center with one vehicular access to Youngs Road and the related site improvements.

Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, represented the petitioner, explained the proposal and was available to answer questions from the Board.

In response to the Board's questions, Mr. Hopkins stated he will address the Board next month regarding the use of sprinklers.

No further comments were heard on this proposal. The hearing was closed.

Following discussion, Mr. Gill moved to adjourn the Negative Declaration. The motion was seconded by Mr. Raffaele carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the adjournment of the Negative Declaration, Mr. Gill moved to adjourn the request to allow the ZBA to take action on requested variances. The motion was seconded by Mr. Raffaele and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

RESULT:	**ADJOURNED [UNANIMOUS]**	**Next: 9/25/2025 6:30 PM**
MOVER:	Harbinder Gill, Board Member	
SECONDER:	Joseph P. Raffaele Jr., Board Member	
AYES:	Chmiel, Davis, Gill, Kahn, Raffaele Jr., O'Rourke	
ABSENT:	Penberthy	

3. PROPOSED YOUTH CENTER BUILDING ADDITION, SP-2014-10_C
Property located at 1350 Eggert Road
1097 Group LLC, Petitioner

Proposal for an addition of a 7,780 S.F. 1-story building for lease by the Town of Amherst Youth and Recreation Department on the western portion of the site.

Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, represented the petitioner, explained the proposal and was available to answer questions from the Board. Tom Fox, Ellicott Development, was also present.

In response to the Board's questions, Mr. Hopkins stated the proposed building is not on the easement and the Planning Department prefers a Parking Analysis instead of obtaining a variance.

Jody Snyder, 215 Crosby Blvd.; Charles Collana, 237 Crosby Blvd.; and Bob Lally, 36 Rosedale Blvd. spoke in opposition to the proposal.

Kevin Curry, 4272 Roxbury Dr, spoke in favor of the proposal.

Following discussion, Mr. O'Rourke moved to approve the Negative Declaration. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the approval of the Negative Declaration, Mr. O'Rourke moved to approve the request based on the resolution. The motion was seconded by Mr. Raffaele and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Jonathan O'Rourke, Board Member
SECONDER:	Joseph P. Raffaele Jr., Board Member
AYES:	Chmiel, Davis, Gill, Kahn, Raffaele Jr., O'Rourke
ABSENT:	Penberthy

SUBDIVISIONS & RELIEF FROM CONDITIONS OF SUBDIVISIONS

None

REZONING & RELIEF FROM CONDITIONS OF REZONINGS

None

MISCELLANEOUS

None

OTHER COMMUNICATIONS

None

All public hearings are completed and closed at the termination of public discussion for each agenda item unless otherwise specified by the Chair.

UNFINISHED BUSINESS

Note: All public hearings have been completed. There will be no public hearings for items listed under this section.

SITE PLANS & RELIEF FROM CONDITIONS OF SITE PLANS

4. REQUEST FOR EXTENSION OF SITE PLAN APPROVAL FOR A PROPOSED WAREHOUSE ADDITION, SP-1987-64_B
Property located at 80 Creekside Drive
80 Creekside Drive LLC, Petitioner

Request for a 2-year extension of site plan approval for a 10,525± square foot one-story building addition on the north side of an existing warehousing building.

Mr. O'Rourke moved to approve the Site Plan Extension. The motion was seconded by Mr. Gill and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Jonathan O'Rourke, Board Member
SECONDER:	Harbinder Gill, Board Member
AYES:	Chmiel, Davis, Gill, Kahn, Raffaele Jr., O'Rourke
ABSENT:	Penberthy

SUBDIVISIONS & RELIEF FROM CONDITIONS OF SUBDIVISIONS

5. PRELIMINARY PLAT REVIEW FOR A PROPOSED 14 BUILDING LOT SUBDIVISION, SUB-2024-02_PP

Property located at 1789 Dodge Road
Joseph Rubino, Petitioner

Preliminary Plat application for proposal to subdivide 6.7 acres on the south side of Dodge Road into 17 parcels for 14 single family building lots, 2 lots for open space and 1 lot for stormwater retention.

June 26, 2025

Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, represented the petitioner, explained the proposal and was available to answer questions from the Board. Joseph Rubino, Petitioner, and Dan LaPierta, Carmina Wood Design, were also present.

In response to the Board's questions, Mr. Hopkins stated the proposed subdivision is higher density than the adjoining property but not the nearby subdivisions and discussed the potential headlight impact at 1780 and 1790 Dodge Road and their willingness to plant evergreen trees on both properties.

William Pitz, 1815 Dodge Road; Sandy Mack, 1790 Dodge Road; and Nancy Fender, 101 Main Street; spoke in opposition to the proposal.

No further comments were heard on this proposal. The hearing was closed.

Following discussion, Ms. Penberthy moved to deny the waiver to §204 of Town Code for the paved stub road and approve the waiver for sidewalks on the southerly property line. The motion was seconded by Mr. O'Rourke and carried. Ayes 5, Noes 0, Absent 2 (Kahn, Raffaele).

A motion to approve the Preliminary Plat was made by O'Rourke; seconded by Davis; ayes 3; noes 2 (Gill, Penberthy); absent 2 (Kahn, Raffaele). The result is uncertain and the motion did not carry.

The Motions and subsequent votes created great confusion as to their outcome and effect. Both the Applicant, through their attorney and members of the Public objected to the Motions and their potential results.

July 24, 2025

Ms. Penberthy moved to rescind the vote of June 26, 2025 on the waiver to §204 of Town Code. The motion was seconded by Mr. O'Rourke and carried. Ayes 6, Noes 0, Absent 1 (Gill).

Ms. Penberthy moved to rescind the vote of June 26, 2025 on the Preliminary Plat determination. The motion was seconded by Mr. O'Rourke and carried. Ayes 6, Noes 0, Absent 1 (Gill).

Ms. Penberthy moved to adjourn the waiver to §204 of Town Code to the August 21, 2025 Planning Board meeting. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Gill).

Ms. Penberthy moved to adjourn the Preliminary Plat determination to the August 21, 2025 Planning Board meeting. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Gill).

August 21, 2025
Mr. O'Rourke moved to approve the waiver to §204 of Town Code for the paved stub road. The motion was seconded by Mr. Davis. No action was taken on the motion. Ayes 3, Noes 3, (Chmiel, Kahn, Raffaele) Absent 1 (Penberthy).

Following discussion, Mr. Raffaele moved to approve the waiver to §204 of Town Code requiring development of the stub street to the southerly property line, as shown on drawing P-100 dated July 25, 2025 prepared by Carmina Wood Design to retain the area as “greenspace” until such time as the road is required to be constructed . The motion was seconded by Mr. O'Rourke. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the approval of the waiver requirements of §204 of Town Code, Mr. O'Rourke moved to approve the request based on the resolution. The motion was seconded by Mr. Raffaele and carried. Ayes 5, Noes 1 (Gill), Absent 1 (Penberthy).

RESULT:	**APPROVED [5 TO 1]**
MOVER:	Jonathan O'Rourke, Board Member
SECONDER:	Joseph P. Raffaele Jr., Board Member
AYES:	Chmiel, Davis, Kahn, Raffaele Jr., O'Rourke
NAYS:	Gill
ABSENT:	Penberthy

REZONING & RELIEF FROM CONDITIONS OF REZONINGS

None

MISCELLANEOUS

None

OTHER COMMUNICATIONS

None

DIRECTOR'S REPORT

ADJOURNMENT

The Planning Board meeting of Thursday, August 21, 2025 was adjourned at 7:45 pm.

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

Meeting: 08/21/25 06:30 PM
Department: Planning
Category: Site Plan and Relief from Conditions of Site Plan
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 29733

ADOPTED

PLANNING BOARD ITEM (ID # 29733)

Proposed Warehouse Office Building, SP-2024-10

Property located at 5500 Millersport Highway
Stephens Property Holdings LLC, Petitioner

The proposed project involves the redevelopment of a 4.98-acre site for a 14,110-sf warehouse building, shop areas and office space along with six (6) tenant garage spaces, and associated utility, lighting and landscaping improvements.

January 16, 2025

No comments were heard on this proposal.

Following discussion, Mr. Raffaele moved to adjourn the request. The motion was seconded by Mr. Gill and carried. Ayes 5, Noes 0, Absent 2 (Kahn, Penberthy).

August 21, 2025

Doug Feyes, Carmina Wood Design, and Mike Berger, Sutton Architecture, represented the petitioner, explained the proposal and were available to answer questions from the Board.

No further comments were heard on this proposal. The hearing was closed.

Following discussion, Mr. O'Rourke moved to approve the Negative Declaration. The motion was seconded by Mr. Raffaele carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the approval of the Negative Declaration, Mr. O'Rourke moved to approve the sidewalk waiver. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the approval to the sidewalk waiver, Mr. Raffaele moved to approve the request based on the resolution. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

HISTORY:

01/16/25	**Planning Board**	**ADJOURNED**	**Next: 08/21/25**

ATTACHMENTS:

- SP-2024-10 application 011625 (PDF)
- SP-2024-10 drawings 011625 (PDF)
- SP-2024-10 application 082125 (PDF)
- SP-2024-10 drawings 082125 (PDF)
- SP-2024-10 signed neg dec 082125 (PDF)
- SP-2024-10 signed resolution 082125 (PDF)

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Joseph P. Raffaele Jr., Board Member
SECONDER:	Carrie H. Kahn, Board Member
AYES:	Chmiel, Davis, Gill, Kahn, Raffaele Jr., O'Rourke
ABSENT:	Brittany Lee Penberthy

TOWN OF AMHERST PLANNING DEPARTMENT

Application for Major Site Plan Review

For Official Use

File #: _____ **Acreage** _____ **Fee $** _____

Address Verified by Assessor's Office _____ VERIFIED BY DATE

Materials Received by Planning Department _____ RECEIVED BY DATE

Fee Paid to Town Clerk _____ RECEIVED BY DATE

Site Plan Review		**Fill In Applicable Fees**
1 acre or less	$1,250.00	_____
Each additional acre or fraction thereof	$ 650.00/acre	_____
Amendments to Site Plans	$1,200.00	_____
Request for Relief of / Change to Conditions of Site Plan Approval	$1,200.00	_____
Request for Extension of Site Plan Approval	$ 450.00	_____
Stormwater Pollution Prevention Plan		
1 - 4.99 Acres	$ 500.00	_____
5 - 10 Acres	$ 750.00	_____
>10 Acres	$1,000.00	_____
Affidavit Fee for Public Hearing	$ 15.00	_____
	TOTAL FEE:	**$**_____

To Be Completed By Applicant

Petitioner:

Name: Stephens Property Holdings, LLC

Address: 5500 Millersport Highway

East Amherst (city) NY (state) 14051 (zip code)

Phone: 716-512-9451 Fax: _____

E Mail: kjs@stephensplumbingny.com

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

MAJOR SITE PLAN APPLICATION (con't) ***Page 2***

Representative (Architect, Engineer, Landscape Architect, Surveyor, or Attorney)**:**

Name: Mike Berger, Sutton Architecture

Address: 5409 Main St

2nd Floor

Williamsville (city) NY (state) 14221 (zip code)

Phone: 716-932-7156 Fax: _____

E Mail: mikeb@design2build.com

Project Location (must be verified by Town Assessor's Office)**:**

Address: 5500 Millersport Highway

East Amherst, NY 14051

SBL No(s): 4.00-3-20

Project Name: 5500 Millersport Highway Proposed Warehouse Buildings

Project Description:

This project is a development of a 4.98 acre site located on the far north-west side of Millersport Hwy in the Town of Amherst. Construction will consist of two separate buildings: a 11,350 sf warehouse building and a 6,500 sf Mix-Use building, and will also include associated utility, lighting and landscaping improvements. Currently the site is developed with an existing building and gravel parking lo. The proposed site development area to be disturbed for this project is approximately 1.72 acres when construction is completed. The site is currently zoned as "Commercial Service" and will not be rezoned.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

MAJOR SITE PLAN APPLICATION (con't) ***Page 3***

If this petition is an amendment to a previously approved site plan, please describe the proposed changes (include type and size of existing structures and number of existing parking spaces):

	existing	proposed	total
Gross Floor Area (non-residential):	3,976	17,850	17,850
Gross Floor Area Residential:	0	2,200	2,200
Number of Residential Units:	0	2	2
x			
Number of Parking Spaces:	0	33	33

Acreage of Parcel: 4.98 acres

(list each parcel separately)

Frontage on Public Roads: 698.74 feet

(list each road separately)

Existing Zoning District(s) CS - COMMERCIAL SERVICE

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

For official use only:

_____
Approved/Date

X:\Current_Planning\Application Forms 2013 Working Doc\Major Site Plan\Site Plan Submittal Requirements and Checklist (3).doc

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Town of Amherst Planning Department 5583 Main Street Williamsville-NY-14221
(716) 631-7051- Fax: (716) 631-7153

TOWN OF AMHERST
State Environmental Quality Review
ENVIRONMENTAL ASSESSMENT FORM
-- ADDENDUM --

1. For each applicable category of proposed <u>new</u> structures, including additions to existing structures, provide the following information for all soil types on the project site (*according to Soil Survey of Erie County, NY; Table 11, Building Site Development, pp 294-305):*

Soil Name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Canandaigua silt loam	Severe: wetness	Severe: wetness,	Severe: wetness	Severe: wetness,	Severe: wetness,
		frost activity		frost activity	frost activity
Getzville silt loam	Severe: wetness	Severe: wetness,	Severe: wetness	Severe: wetness,	Severe: frost
	cutbanks cave	frost activity		frost activity	activity, wetness

2. Is your property located: On Youngs Road between Dodge and Klein Roads? □ Yes X No
   On Wehrle Dr. between Spindrift Dr. and Oakwood Rd? □ Yes X No

   If so, the property may be within an area of the Town that is affected by a moratorium on connections to the sanitary sewer system.

3. Are there alternative locations on the site for this project? □ Yes X No

4. Location and size of real property owned by petitioner within one (1) mile of subject proposal:
   N/A

5. Are you aware of current or future plans or intentions by others in the Town of Amherst to develop property within 1000± ft. of the present project request: □ Yes X No

   Describe_____

   (Potential environmental impacts from adjacent or nearby projects undergoing the approval process will receive a coordinated environmental review to determine cumulative effects on common receivers (e.g. traffic and drainage corridors) and other relevant environmental concerns.)

6. Maximum number of vehicular trips to be generated per peak hour upon completion of project 17 AM, 18 PM
   Source: ITE Trip Generation Manual

7. Will blasting occur during construction? □ Yes X No

8. Does the project propose to connect and be tributary to the public sanitary sewer system? □ Yes X No

9. Proposed net additional gallons per day (gpd) of sanitary sewer discharge upon completion of project:
   670 average flow 2,968 peak flow.

   (Average flows of 2,500 gpd or greater will require an Engineer's Report that includes a detailed downstream sewer capacity analysis and the identification of and commitment to required I/I offset work during peak wastewater flow conditions.)

10. Based on the Town's *2011 Reconnaissance Level Survey of Historic Resources,* is your property 'blue-rated' for historic significance? □ Yes X No

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information

Name of Action or Project:
Proposed Warehouse Buildings

Project Location (describe, and attach a location map):
5500 Millersport Highway, Amherst New York, 14051

Brief Description of Proposed Action:
This project is a development of a 4.98 acre site located on the far north-west side of Millersport Hwy in the Town of Amherst. Construction will consist of two separate buildings: a 11,350 sf warehouse building and a 6,500 sf Mix-Use building, and will also include associated utility, lighting and landscaping improvements. Currently the site is developed with an existing building and gravel parking lo. The proposed site development area to be disturbed for this project is approximately 1.72 acres when construction is completed. The site is currently zoned as "Commercial Service" and will not be rezoned.

Name of Applicant or Sponsor:	Telephone: 716-501-5741
Doug Feyes, PE Carmina Wood Design	E-Mail: cwood@carminawooddesign.com

Address:
80 Silo City Row, Suite 100

City/PO:	State:	Zip Code:
Buffalo	NY	14203

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: NYSDEC SPDES, Erie County DSM, ECWA	☐	☑

3. a. Total acreage of the site of the proposed action? 4.98 acres
   b. Total acreage to be physically disturbed? 1.72 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 4.98 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☑ Commercial ☑ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☑	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑

	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		
If Yes, identify: _____	☑	☐

	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation services available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☑	☐

	NO	YES
9. Does the proposed action meet or exceed the state energy code requirements?		
If the proposed action will exceed requirements, describe design features and technologies:	☑	☐

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water: _____	☐	☑

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment: _____ Septic Tank	☑	☐

	NO	YES
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	☑	☐
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☑	☐

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____		

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☑ Forest ☑ Agricultural/grasslands ☐ Early mid-successional

☑ Wetland ☐ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☑	☐
16. Is the project site located in the 100-year flood plan?	☐	☑
17. Will the proposed action create storm water discharge, either from point or non-point sources?	☐	☑
If Yes,		
a. Will storm water discharges flow to adjacent properties?	☑	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☐	☑
If Yes, briefly describe: Storm water runoff will be directed to an on site storm water management system consisting if Drainage Inlets, detention Basins and a pipe network.		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	☑	☐
If Yes, explain the purpose and size of the impoundment:		
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	☐	☑
If Yes, describe: There is a Septic tank system located on site		
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	☑	☐
If Yes, describe:		

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor/name: Doug Feyes, PE Date: 11/20/24

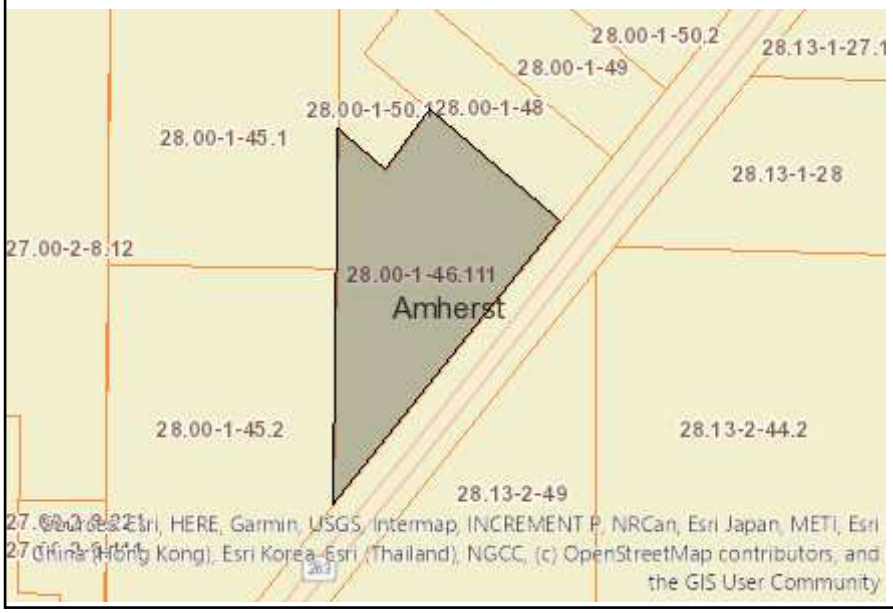
Signature: _____ Title: Civil Engineer

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

PRINT FORM

EAF Mapper Summary Report

Monday, June 3, 2024 1:47 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	Yes
Part 1 / Question 20 [Remediation Site]	No

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

CARMINAWOOD
DESIGN

STORMWATER POLLUTION PREVENTION PLAN
for
CONSTRUCTION ACTIVITIES

At

Proposed Warehouses
5500 Millersport Hwy
Amherst, County of Erie, NY

Prepared for

Stephens Plumbing

Kevin Stephens
5500 Millersport Hwy
East Amherst, NY 14051

Prepared by

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November 2024



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101 SCOPE

A. **PURPOSE:** Stephens Plumbing (SP) has placed an emphasis on following the New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Stormwater Discharges from Construction Activity governing storm water discharges during construction, and in accordance with erosion control practices. The Contractor's participation in this program is mandatory and its non-compliance is subject to various remedies, including without limitation, monetary set-offs, withholding payments; reimbursement for costs, expenses (including reasonable attorney's fees), fines and civil penalties incurred by SP; and/or liquidated damages. This section provides a descriptive explanation of SP's Storm Water Pollution Prevention Program and required Contractor participation.

The Engineer of record for this project certifies that this SWPPP meets the requirements and is in compliance with the New York State Stormwater Management Design Manual and latest NYSDEC Phase II stormwater regulation requirements.

B. **SPDES General Permit for Stormwater Discharges from Construction Activity:** Regulations promulgated by the NYSDEC to regulate the discharge of storm water from construction activities on sites where more than one (1) acre of soil is disturbed. One of the ways to comply with these regulations for affected sites is to request coverage under the General Permit for Construction Activities for New York State. In order to use the General Permit, a Notice of Intent (NOI) form must be completed and electronically submitted to the NYSDEC at least 5 business days prior to any earth-disturbing activities (this time frame may increase to 60 business days if a full review of the SWPPP is determined necessary by the NYSDEC) and a Storm Water Pollution Prevention Plan (SWPPP) for the site must be prepared and followed during the construction activities. Once a copy of the SPDES permit is received from NYSDEC, a copy will be included in Appendix F of this report.

Approval from a regulated, traditional land use control MS4:

1. An **owner or operator** of a construction activity that is not subject to the requirements of a regulated, traditional land use control MS4 must first develop a SWPPP in accordance with all applicable requirements of this permit and then submit a completed NOI form to the NYSDEC.

2. An **owner or operator** of a construction activity that is subject to the requirements of a regulated, traditional land use control MS4 must first develop a SWPPP in accordance with all applicable requirements of this permit and then have its SWPPP reviewed and accepted by the MS4 prior to submitting the NOI to the NYSDEC. The **owner or operator** shall have the "MS4 SWPPP Acceptance" form signed by the principal executive officer or ranking elected official from the regulated, traditional land use control MS4, or by a duly authorized representative of that person, and then submit that form along with the NOI to the address referenced under "Notice of Intent (NOI) Submittal".

C. **RESPONSIBILITIES OF THE CONTRACTOR:** The Contractor shall manage the discharge of storm water from the site in accordance with the NYSDEC General Permit for Construction Activities conditions and the following provisions of this section. The Operator shall be responsible for conducting the storm water management practices in accordance with the permit. The Contractor shall be responsible for providing **qualified inspector**s to conduct the inspections required by the SWPPP. The Contractor shall be responsible for any enforcement action taken or imposed by federal, state, or local agencies, including the cost of fines, construction delays, and remedial actions resulting from the Contractor's failure to comply with the permit provisions. It shall be the responsibility of the Contractor to make any changes to the SWPPP necessary when the Contractor or any of his subcontractors elects to use borrow or fill or material storage sites, either contiguous to or remote from the construction site, when such sites are

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used solely for this construction site. Such sites are considered to be part of the construction site covered by the permit and this SWPPP. Off-site borrow, fill, or material storage sites which are used for multiple construction projects are not subject to this requirement, unless specifically required by state or local jurisdictional entity regulations. The Contractor should consider this requirement in negotiating with earthwork subcontractors, since the choice of an off-site borrow, fill, or material storage site may impact their duty to implement, make changes to, and perform inspections required by the SWPPP for the site.

D. **NOTICE OF INTENT:** The Operator has petitioned the NYSDEC for coverage under the storm water discharges during construction at this site to be covered by the SPDES General Permit for Construction Activity for the State of New York. A Notice of Intent (NOI) for coverage under this permit has been filed by the Operator. The SWPPP must be prepared prior to submittal of the NOI form. The Operator will require the Contractor to be a co-permittee with the Operator. The Contractor will be required to post the NOI at the construction site along with any building permits.

E. **CONTRACTOR CERTIFICATION & TRAINING:** Proof of Training/Certification of the Contractor's designated individual shall be kept on site at all times.

F. **REQUIREMENTS FOR THE GENERAL CONTRACTOR AND SUBCONTRACTOR(S):** The General Contractor and Subcontractor(s) shall sign the "Contractor's Certification Statement" (located in the Appendix of this report) verifying they have been instructed on how to comply with and fully understand the requirements of the SPDES General Permit for Construction Activity for the State of New York and the SWPPP. These certifications must be signed, by a responsible corporate officer or other party meeting the "Signatory Requirements" of the SPDES General Permit, on behalf of each entity, prior to the beginning of any construction activities.

G. **STORM WATER POLLUTION PREVENTION PROGRAM LOCATION REQUIREMENTS:** The SWPPP is meant to be a working document that shall be maintained at the site of the Construction Activities at all times throughout the project, shall be readily available upon request by the Operator's personnel or NYSDEC or any other agency with regulatory authority over storm water issues, and shall be kept on-site until the site complies with the Final Stabilization section of this document. A sign or other notice must be posted near the main entrance of the construction site which contains a completed NOI, the location of the SWPPP and the name and phone number of a contact person responsible for scheduling SWPPP viewing times, and any other state specific requirements.

H. **INSPECTIONS AND RECORD-KEEPING:**

A. <u>General Construction Site Inspection and Maintenance Requirements</u>

1. The **owner or operator** must ensure that all erosion and sediment control practices and all post-construction stormwater management practices identified in the SWPPP are maintained in effective operating condition at all times.

2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York, or protect the public health and safety and/or the environment.

B. <u>Owner or operator Maintenance Inspection Requirements</u>

1. The **owner or operator** shall inspect, in accordance with the requirements in the most current version of the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, the erosion and sediment controls identified in the

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SWPPP to ensure that they are being maintained in effective operating condition at all times.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the **owner or operator** can stop conducting the maintenance inspections. The **owner or operator** shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of the General Permit as soon as soil disturbance activities resume.

3. For construction sites where soil disturbance activities have been shut down with partial project completion, the **owner or operator** can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. **Qualified inspector Inspection Requirements**

The **owner or operator** shall have a **qualified inspector** conduct site inspections in conformance with the following requirements:

Note: The **trained contractor** identified in Part III.A.6 of the General Permit **cannot** conduct the **qualified inspector** site inspections unless they meet the **qualified inspector** qualifications included in Appendix A of the General Permit. In order to perform these inspections, the trained contractor would have to be a:

- Licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- Registered Landscape Architect, or
- Someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity.

1. A **qualified inspector** shall conduct site inspections for all construction activities identified in Tables 1 and 2 of Appendix B of the General Permit, with the exception of:

   a. The construction of a single family residential subdivision with 25% or less impervious cover at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C of the General Permit and not directly discharging to one of the 303(d) segments listed in Appendix E of the General Permit;

   b. The construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E of the General Permit;

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c. Construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and

d. Construction activities located in the watersheds identified in Appendix D of the General Permit that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land.

2. Unless otherwise notified by the Department, the **qualified inspector** shall conduct site inspections in accordance with the following timetable:

a. For construction sites where soil disturbance activities are on-going, the **qualified inspector** shall conduct a site inspection at least once every seven (7) calendar days.

b. For construction sites where soil disturbance activities are on-going and the **owner or operator** has received authorization in accordance with Part II.C.3 of the General Permit to **disturb greater than five (5) acres** of soil at any one time, the **qualified inspector** shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

c. For construction sites where soil disturbance activities have been **temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas**, the **qualified inspector** shall conduct a site inspection at least once every thirty (30) calendar days. The **owner or operator** shall notify the Regional Office stormwater contact person (see contact information in Appendix F of the General Permit) or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the MS4 (provided the MS4 is not the **owner or operator** of the construction activity) in writing prior to reducing the frequency of inspections.

d. For construction sites where **soil disturbance activities have been shut down with partial project completion**, the **qualified inspector** can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The **owner or operator** shall notify the Regional Office stormwater contact person or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the MS4 (provided the MS4 is not the **owner or operator** of the construction activity). in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the **owner or operator** shall have the **qualified inspector** perform a final inspection and certify that all disturbed areas have achieved final stabilization, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the “Final Stabilization” and “Post-Construction Stormwater Management Practice” certification statements on the NOT. The **owner or operator** shall then submit the completed NOT form to the address in Part II.A.1 of the General Permit.

3. At a minimum, the **qualified inspector** shall inspect all erosion and sediment control practices to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved final stabilization, all points of discharge to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site, and all points of discharge from the construction site.

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4. The **qualified inspector** shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

   a. Date and time of inspection;

   b. Name and title of person(s) performing inspection;

   c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;

   d. A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;

   e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody;

   f. Identification of all erosion and sediment control practices that need repair or maintenance;

   g. Identification of all erosion and sediment control practices that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;

   h. Description and sketch of areas that are disturbed at the time of the inspection and areas that have been stabilized (temporary and/or final) since the last inspection;

   i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;

   j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s); and

   k. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The **qualified inspector** shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The **qualified inspector** shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The **qualified inspector** shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

5. Within one business day of the completion of an inspection, the **qualified inspector** shall notify the **owner or operator** and appropriate contractor or subcontractor identified in Part III.A.6. of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.

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6. All inspection reports shall be signed by the **qualified inspector**. Pursuant to Part II.C.2 of the General Permit, the inspection reports shall be maintained on site with the SWPPP.

Record Retention - The **owner or operator** shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the site achieves final stabilization. This period may be extended by the Department, in its sole discretion, at any time upon written notification.

I. **SWPPP MODIFICATIONS:** The inspection report should also identify if any revisions to the SWPPP are warranted due to unexpected conditions. The SWPPP is meant to be a dynamic working guide that is to be kept current and amended whenever there is a change in design, construction, operation, or maintenance at the construction site that has or could have a significant effect on the discharge of pollutants or when the plan proves to be ineffective in eliminating or significantly minimizing pollutant discharges. The Contractor's failure to modify or report deficiencies to the Operator will result in the Contractor being liable for fines and construction delays resulting from any federal, state, or local agency enforcement action.

J. **FINAL STABILIZATION AND TERMINATION OF PERMIT COVERAGE:** A site can be considered finally stabilized when all soil disturbing activities have been completed and a uniform perennial vegetative cover with a density of **85%** for the unpaved areas and areas not covered by permanent structures has been established or equivalent permanent stabilization measures have been established and the facility no longer discharges storm water associated with construction activities and a Notice of Termination (NOT) form filed by the Operator(s) with the NYSDEC. The Operator's Project Manager must complete the NOT. The NOT must be signed by the signatory (or equivalent position) on the NOI and subsequently submitted to the appropriate agency. The Operator's Project Manager must provide a completed copy of the NOT to the Contractor for inclusion in the SWPPP, which will then be optically scanned into the final SWPPP document as required. This filing terminates coverage under the General Permit and terminates the Contractor's responsibility to implement the SWPPP, but the requirements of the SWPPP, including periodic inspections, must be continued until the NOT is filed. The **owner or operator** shall also have the **qualified inspector** perform a final site inspection prior to submitting the NOT to the Department. Final payment and/or the release of retainage will be withheld until all provisions of the SWPPP have been submitted, completed and accepted by the Operator.

102 PROJECT NAME AND LOCATION

Proposed Warehouse Buildings

5500 Millersport Hwy

Town of Amherst, County of Erie, New York

Easting: 198716

Northing: 4776371

Estimated Area of Site ≈ 4.98 acres

Estimated Area to be disturbed by Construction Activities ≈ 1.72 acres

A general location map is included as Appendix A.

103 OPERATOR'S NAME AND ADDRESS

Stephens Property Holdings, LLC

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5500 Millersport Hwy

East Amherst, NY 14501

Contact Person: Kevin Stephens

Telephone: 716-512-9451

104 PROJECT DESCRIPTION

This project is a development of a 4.98 acre site located on the far north-west side of Millersport Hwy in the Town of Amherst. Construction will consist of two separate buildings: a 11,350 sf warehouse building and a 6,500 sf Mix-Use building, and will also include associated utility, lighting and landscaping improvements. Currently the site is developed with an existing building and gravel parking lot. The proposed site development area to be disturbed for this project is approximately 1.72 acres when construction is completed. The site is currently zoned as “Commercial Service” and will not be rezoned.

Soil disturbing activities will include:

A. Construction of temporary construction exit points

B. Clearing & grubbing of the site within disturbance limits

C. Installation of the detention basin & bioretention areas including topsoil & seed

D. Installation of storm sewer pipes and inlets

E. Construction of utilities

F. Construction of curb and parking lot

G. Final grading & landscaping

H. Construction of buildings

This project is owned by Stephens Plumbing and will be developed by the same. The work area consists of approximately 1.72 acres for which erosion and sediment controls have been developed and fully addressed in this written plan and the Erosion and Sediment Control Plans. See the construction documents for additional details.

105 RUNOFF COEFFICIENT, SOILS, AND RAINFALL INFORMATION

The initial runoff curve number for the pre-construction site is "CN" = 83. The post-construction runoff curve number for the site will be "CN" = 86. The site is 4.98 acres of which approximately 1.72 acres will be disturbed by construction activities.

See soils information located in Appendix I.

The site is in Erie County, which receives an average of approximately 45 inches rainfall annually with the highest amounts of rainfall received in the months of May thru September. Annual snow for this area is approximately 120 inches.

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106 WATERS

The runoff generated from this site will discharge to an existing ditch on the north property line which drainage ditch along Millersport Hwy.

107 INDIAN COUNTRY LANDS

This project is not located on Indian Lands.

108 ENDANGERED AND THREATENED SPECIES

No endangered or threatened species have been determined to be on the site.

109 CRITICAL HABITAT

See section 108 above.

110 HISTORIC PLACES

The assessed property is not shown on the NYSHPO map as an archeologically sensitive area. A review by NYSHPO was conducted, a copy of their review and clearance letter is included in Appendix M of this report.

111 WETLANDS AND/OR OTHER SURFACE WATERS

0 acres of NYSDEC wetlands were delineated on site. 2.92 acres of isolated Federal jurisdictional wetlands were delineated on site and will not be disturbed for construction activity. The wetlands report can be found in Appendix L of this report.

112 EROSION AND SEDIMENT CONTROLS

112.1 STABILIZATION PRACTICES

Stabilization practices for this site include:

A. Land clearing activities shall be done only in areas where earthwork will be performed and shall progress as earthwork is needed.

B. Use of stabilization method for all slopes having a slope greater than 1V:3H.

C. Permanent seeding and planting of all unpaved areas using the hydromulching grass seeding technique.

D. Mulching exposed areas.

E. Vegetation preservation in undisturbed areas.

F. Frequent watering to minimize wind erosion during construction.

a. **For sites where 5 acres or more are disturbed at any one time**: In areas where soil disturbance activity has been temporarily or permanently ceased, temporary and/or permanent soil stabilization measures shall be installed and/or implemented within seven (7) days from the date the soil disturbance activity ceased. The soil stabilization

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measures selected shall be in conformance with the most current version of the New York Standards and Specifications for Erosion and Sediment Control.

b. The **owner or operator** shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.

c. The **owner or operator** shall install any additional measures needed to protect water quality.

112.2 STRUCTURAL PRACTICES

Structural practices for this site include:

A. Inlet protection using a method detailed in the Construction Documents.

B. Perimeter protection using temporary silt fence/silt sock or silt sock.

C. Outlet protection using rip-rap stone and end sections.

D. Stabilized Construction Entrance.

E. Temporary stone wash off areas.

F. Storm sewer, curb/gutter.

G. Sediment traps and basins.

112.3 SEQUENCE OF MAJOR ACTIVITIES

The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the Contractor. The order of activities will be as follows:

A. Construct temporary construction exits at locations shown on the Demolition & Erosion Control Plan Sheet.

B. Install perimeter silt fence/silt socks/silt sock in the locations shown on the Demolition & Erosion Control Plan Sheet.

C. Clear & Grub site.

D. Installation of detention basin to act as sediment basins (do not install bioretention soil or underdrains until stabilized)

E. Commence site grading.

F. Disturbed areas of the site where construction activity has ceased for more than 14 days shall be temporarily seeded and watered.

G. Construction of buildings

H. Installation of proposed utilities

I. Finalize pavement subgrade preparation.

J. Construct all curb, drainage inlets, storm sewer pipes and storm sewer manholes, as shown on the plans. Install temporary inlet protection at the locations of all inlets.

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K. Dust control.

L. Remove inlet protection around inlets and manholes no more than 48 hours prior to placing stabilized base course.

M. Install base material as required for pavement.

N. Carry out final grading and seeding and planting.

O. Clean storm system following construction, clean detention basins of any silt and return to design grades.

P. Remove silt fencing/silt sock only after all paving is complete and exposed surfaces are stabilized.

Q. Remove temporary construction exits only prior to pavement construction in these areas.

Note: Sediment control storage during construction (traps & basins) during construction shall be 134 cy per acre of disturbance per NYSDEC requirements.

112.4 STORM WATER MANAGEMENT

The existing site currently sheet drains in multiple directions, either north to existing onsite drainage ditch on the north Property line or southeast towards the existing drainage ditch along Millersport Hwy. Ultimately all on site stormwater runoff flows into the Town of Amherst stormwater sewer along the southeast side of Millersport Hwy.

Stormwater runoff collected onsite as a result of the proposed development will be routed through the proposed storm sewer system consisting of a bioretention areas and a dry detention basin connected by a series of catch basins and smooth interior HDPE stormwater pipe. The bioretention areas on site are designed to provide 100% of the required runoff reduction volume (RRv) and water quality treatment (WQv) for the 1.72 tributary area (see below). The soils in the vicinity of the bioretention areas are mainly USDA hydrologic group 'D' and therefore the system will be installed with underdrains per NYSDEC requirements. The bioretention areas will consist of 8" perforated HDPE underdrains in 12" of drainage gravel, followed by filter fabric and then finally 18" minimum of planting soil. Overflow yard drains will be installed to allow 6" maximum ponding for RRv treatment. Stormwater detention is required per NYSDEC standards and specifications. A 12" outlet control pipe will be provided within the basin to attenuate proposed runoff to required existing conditions prior to discharge off site. Discharge from the detention pond will outlet to an existing Town of Amherst stormwater ditch along the north property line.

Runoff reduction volume (RRv), water quality volume (WQv) and stormwater volume attenuation for the site is designed in accordance with Chapter 4 of the NYSDEC Stormwater design manual. The bioretention areas are provided as a "green infrastructure" practice to provide runoff reduction and water quality treatment to meet the Chapter 4 requirements for the currently undeveloped areas. Runoff from the site was looked at as a whole for the calculation of volume attenuation requirements. The existing site has a pre-development total of 0.25 acres of impervious cover. The amount of impervious cover post-development is 1.13 acres, an increase of 0.88 acres in impervious area on site. The proposed dry detention pond is designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates, as well as the below stated Town stormwater runoff requirements.

The NYSDEC Stormwater Management Design Manual requires a five-step process for Stormwater Management Planning as outlined in Chapter 3. The five steps include:

1. Site planning to preserve natural features and reduce impervious cover.

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- 3.28 acres of existing vegetation within the existing wetlands will remain and be protected.

2. Calculation of Water Quality Volume (WQv=RRv) for site.

   - See Stormwater Drainage Calculations.

3. Incorporation of Green Infrastructure techniques and standard SMPs with Runoff Reduction Volume (RRv) capacity.

   - Bioretention areas were incorporated into the site design to provide required RRv for the development. See Stormwater Drainage Calculations.

4. Use of standard SMPs where applicable, to treat the portion of water quality volume not addressed by green infrastructure techniques and standard SMPs with RRv capacity.

   - Since the provided RRv is greater than the WQv required, use of standard SMPs to treat the remaining WQv is not applicable.

5. Design of volume and peak rate control practices where required.

   - See Stormwater Drainage Calculations.

The NYSDEC Stormwater Management Design Manual requires (5) five different criteria be considered when designing a stormwater management system. Those criteria are Water Quality, Runoff Reduction Volume, Channel Protection, Overbank Flooding and Extreme Storm Protection. Below is a summary of each item and how it is incorporated into this project.

Water Quality & Runoff Reduction Volume:

The NYSDEC requires reduction of the total water quality volume by green infrastructure techniques and SMP's to replicate pre-development hydrology. Bioretention areas were incorporated into the site layout to provide the required RRv for contributing WQv runoff area for the development. The bioretention area will provide 800 cf RRv. The minimum RRv required is 779 cf. The bioretention areas will also treat 3,204 cf of WQv. The required WQv = 4,004 cf. The sum of the WQv treated and the RRv is equal to the required WQv, therefore the practice is acceptable.

Channel Protection:

The NYSDEC requires that 24-Hour extended detention be provided for the proposed 1-year storm event. A volume of 2,506 cf is accommodated in the detention basin at elevation 582.73.

Overbank Flooding:

The NYSDEC requires that the 10-year proposed storm event be attenuated with detention and that the outlet be restricted to the 10-year existing storm event. A volume of 5,328 cf is accommodated in the detention basin at elevation 583.45.

Extreme Storm Protection:

The NYSDEC requires that the 100-year proposed storm event be attenuated with detention and that the outlet be restricted to the 100-year existing storm event. A volume of 8,508 cf is accommodated in the detention basin at elevation 584.12.

Refer to the engineer's report for storm sewer design criteria, runoff summary tables and stormwater drainage calculations.

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113 OTHER CONTROLS

113.1 OFF-SITE VEHICLE TRACKING

A stabilized construction exit will be provided to help reduce vehicle tracking of sediments. Existing paved areas will remain as long as possible and will be used for vehicle wash areas and to further aid in the reduction of vehicle tracking of sediments. The paved streets adjacent to the site entrance shall be inspected daily and swept as necessary to remove any excess mud, dirt, or rock tracked from the site. Dump trucks hauling material to/from the construction site will be covered with a tarpaulin. The job site superintendent will be responsible for seeing that these procedures are followed.

113.2 EXCAVATION SPOIL MATERIALS

Excavation spoil materials are generated during the excavation of the development's building and utilities installation. These materials must be properly managed to prevent them from contributing to storm water discharges. The materials generated from the development of this project will be hauled off-site or stockpiled for re-use in designated areas which will have temporary erosion & sediment control measures installed. Any removal from site will be done under the necessary permits required by the local governing agencies.

113.3 DUST CONTROL

Minimizing wind erosion and controlling dust will be accomplished by one or more of the following methods:

A. Frequent watering of excavation and fill areas.

B. Providing gravel or paving at entrance/exit drives, parking areas and transit paths.

113.4 WASTE DISPOSAL

If needed, all waste materials will be collected and stored in securely lidded metal dumpsters rented from an approved waste management company. The dumpster will comply with all local and state solid waste management regulations.

All trash and construction debris from the site will be deposited in the dumpsters. The dumpsters will be emptied when full and then hauled to a NYSDEC approved landfill for proper disposal. No construction waste will be buried on-site. All personnel will be instructed regarding the correct procedures for waste disposal.

113.5 SANITARY WASTE

If needed, portable toilet units or field offices with toilet facilities connected to the municipal sanitary sewer will be used for sanitary purposes. All portable toilet units will be emptied a minimum of once per week by a licensed portable facility provided in compliance with local and state regulations.

113.6 CONCRETE WASTE FROM CONCRETE TRUCKS

A. Emptying of excess unhardened concrete and/or washout from concrete delivery trucks will be allowed on the job site, but in either (1) specifically designated diked areas which have been prepared to prevent contact between concrete and/or washout and storm water which will be discharged from the site or (2) in locations where waste concrete will be poured into forms to make rip-rap or other useful concrete products.

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B. Hardened waste concrete from the designated diked areas described above will be disposed of in accordance with applicable local and state regulations with regards to disposal of construction debris.

113.7 HAZARDOUS SUBSTANCES & HAZARDOUS WASTE

A. All hazardous waste materials will be disposed of by the Contractor in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. Site personnel will be instructed in these practices by the job superintendent, who will also be responsible for seeing these practices are followed. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such products are stored and/or used and another copy of each MSDS will be maintained in the SWPPP file at the job site construction office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

B. The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this SWPPP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials of hazardous wastes will be allowed to come in contact with storm water discharges. If such contact occurs, the storm water discharge shall be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job superintendent to properly train all personnel in the use of the SPCC plan.

C. Any spills of hazardous materials which are in excess of the Reportable Quantities as defined by the EPA regulations shall be immediately reported to the EPA National Response Center at 1-100-424-1102. From SWPPP-9 "Reportable Quantity Release Form" must be filled out.

D. In order to minimize the potential for a spill of hazardous materials to come in contact with storm water, the following steps will be implemented:

1. All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, cleaning solvents, additives for soil stabilization, concrete curing compounds and additives, etc.) will be stored in a secure location, under cover, when not in use.

2. The minimum practical quantity of all such materials will be kept on the job site.

3. A spill control and containment kit (containing for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.

4. All of the product in a container will be used before the container is disposed of. All such containers will be triple rinsed with water prior to disposal. The rinse water used in these containers will be disposed of in a manner in compliance with state and federal regulations and will not be allowed to mix with storm water discharges.

5. All products will be stored in and used from the original container with the original product label.

6. All products will be used in strict compliance with instructions on the product label.

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7. The disposal of excess or used products will be in strict compliance with instructions on the product label.

113.8 CONTAMINATED SOILS

A. Any contaminated soils (resulting from spills of materials with hazardous properties) which may result from construction activities will be contained and cleaned up immediately in accordance with the procedures given in the Spill Prevention Control and Countermeasures (SPCC) Plan and in accordance with applicable state and federal regulations.

B. The job site superintendent will be responsible for seeing that these procedures are followed.

114 COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

The Contractor will obtain copies of any and all local and state regulations which are applicable to storm water management, erosion control, and pollution minimization at this job site and will comply fully with such regulations. The Contractor will submit written evidence of such compliance if requested by the Operator or any agent of a regulatory body. The Contractor will comply with all conditions of the SPDES General Permit for Construction Activity for the State of New York, including the conditions related to maintaining the SWPPP and evidence of compliance with the SWPPP at the job site and allowing regulatory personnel access to the job site and to records in order to determine compliance.

The SWPPP for this site development project requires regulated MS4 approval from the Town of Amherst. All changes to the SWPPP must be approved by the Town of Amherst prior to applying changes to the SWPPP in the field.

115 INSPECTION AND MAINTENANCE PROCEDURES

The following inspection and maintenance practices will be used to maintain erosion and sediment controls and stabilization measures.

1. All control measures will be inspected by the owner/operator at least weekly and shall continue until the site complies with the Final Stabilization section of this document (See Section 116).

2. All control measures will be inspected by a Qualified Professional at least weekly and shall continue until the site complies with the Final Stabilization section of this document (See Section 116).

3. All measures will be maintained in good working order; if repairs or other measures are found to be necessary, they will be initiated within 24 hours of report.

4. Built up sediment will be removed from silt fence/silt sock when it has reached one-third the height of the fence.

5. Silt fence/silt socks will be inspected for depth of sediment, tears, etc., to see if the fabric is securely attached to the fence posts, and to see that the fence posts are securely in the ground.

6. Temporary and permanent seeding and all other stabilization measures will be inspected for bare spots, washouts, and healthy growth.

7. A maintenance inspection report will be made after each inspection. Copies of the report forms to be completed by the inspector are included in this SWPPP.

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8. The job site superintendent will be responsible for selecting and training the individuals who will be responsible for these inspections, maintenance and repair activities, and filling out inspection and maintenance reports.

9. Personnel selected for the inspection and maintenance responsibilities will receive training from the job site superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls that are used onsite in good working order. They will also be trained in the completion of, initiation of actions required by, and the filing of the inspection forms. Documentation of this personnel training will be kept on site with the SWPPP.

10. Disturbed areas and materials storage areas will be inspected for evidence of or potential for pollutants entering stormwater systems.

11. Report to the NYSDEC within 24 hours any noncompliance with the SWPPP that will endanger public health or the environment. Follow up with a written report within 5 days of the noncompliance event. The following events require 24 hour reporting: a) any unanticipated bypass which exceeds any effluent limitation in the permit, b) any upset which exceeds any effluent limitation in the permit, and c) a violation of a maximum daily discharge limitation for any of the pollutants listed by the NYSDEC in the permit to be reported within 24 hours. The written submission must contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the non-compliance.

12. Releases of hazardous substances or oil in excess of reportable quantities (as established under 40 CFR 110, 40 CFR 117 or 40 CFR 302) must be reported.

Upon completion of construction, the property owner is responsible for ensuring that the stormwater facilities are regularly inspected and maintained. Maintenance and inspection procedures are as follows.

1. On a quarterly basis and following significant rainfall events or snow-melts, perform the following:

    - Inspect catch basins, storm manholes, treatment structures, storm piping and stormwater pond for debris and accumulation of sediment.
    - Remove and properly dispose of any collected debris and sediment in accordance with applicable state, federal and local regulations.
    - Flush piping with water if necessary to remove accumulated sediment.
    - Bioretention areas shall be maintained per the NYSDEC Maintenance and Management Checklist included in this SWPPP.
    - Check all stone outfall structures for erosion and re-stone if necessary to prevent further erosion.
    - Inspect grassed/landscaped areas for un-vegetated areas or areas with less than 85% healthy stand of grass and reseed and mulch as necessary. Water daily if reseeded in July and August.
    - A record of all inspections should be kept.

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2. Maintain all lawn areas by regular mowing, including the grassed slopes of the stormwater pond and any grass swales. Any eroded areas shall be regarded, seeded and mulched immediately.

116 INSPECTION AND MAINTENANCE REPORT FORMS

Once installation of any required or optional erosion control device or measure has been implemented, inspections shall be performed by a Qualified Professional at least once every seven (7) calendar days. For construction sites where soil disturbance activities are on-going and the **owner or operator** has received authorization in accordance with Part II.C.3 of the General Permit to disturb greater than five (5) acres of soil at any one time, the **qualified inspector** shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days. The owner and contractor shall obtain from the MS4 an approval for disturbing more than five-acres at any given time. For construction sites where active construction has been suspended, inspection frequency under the general permit can be reduced to once every 30 days, provided temporary stabilization measures have been applied to all disturbed areas. The forms found in this SWPPP shall be used by the inspectors to inventory and report the condition of each measure to assist in maintaining the erosion and sediment control measures in good working order.

These report forms shall become an integral part of the SWPPP and shall be made readily accessible to governmental inspection officials, the Operator's Engineer, and the Operator for review upon request during visits to the project site. In addition, copies of the reports shall be provided to any of these persons, upon request, via mail or facsimile transmission. Inspection and maintenance report forms are to be maintained by the permittee for five years following the final stabilization of the site.

117 OTHER RECORD-KEEPING REQUIREMENTS

The Contractor shall keep the following records related to construction activities at the site:

- Dates when major grading activities occur and the areas which were graded
- Dates and details concerning the installation of structural controls
- Dates when construction activities cease in an area
- Dates when an areas is stabilized, either temporarily or permanently
- Dates of rainfall and the amount of rainfall
- Dates and descriptions of the character and amount of any spills of hazardous materials
- Records of reports filed with regulatory agencies if reportable quantities of hazardous materials spilled

118 SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN

118.1 MATERIALS COVERED

The following materials or substances are expected to be present onsite during construction:

- Concrete/Additives/Wastes
- Cleaning solvents
- Sanitary wastes
- Detergents
- Petroleum based products
- Paints/Solvents
- Pesticides

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- Solid and construction wastes
- Acids
- Fertilizers
- Soil stabilization additives

118.2 MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff. The job site superintendent will be responsible for ensuring that these procedures are followed.

A. Good Housekeeping

The following good housekeeping practices will be followed onsite during the construction project.

1. An effort will be made to store only enough products required to do the job.

2. All materials stored onsite will be stored in a neat, orderly manner and, if possible, under a roof or in a containment area. At a minimum, all containers will be stored with their lids on when not in use. Drip pans shall be provided under all dispensers.

3. Products will be kept in their original containers with the original manufacturer's label in legible condition.

4. Substances will not be mixed with one another unless recommended by the manufacturer.

5. Whenever possible, all of a product will be used up before disposing of the container.

6. Manufacturer's recommendations for proper use and disposal will be followed.

7. The job site superintendent will be responsible for daily inspections to ensure proper use and disposal of materials.

B. Hazardous Products

These practices will be used to reduce the risks associated with hazardous materials. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the SWPPP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

1. Products will be kept in original containers with the original labels in legible condition.

2. Original labels and material safety data sheets (MSDS's) will be procured and used for each material.

3. If surplus product must be disposed of, manufacturer's or local/state/federal recommended methods for proper disposal will be followed.

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4. A spill control and containment kit (containing for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.

5. All of the product in a container will be used before the container is disposed of. All such containers will be triple rinsed with water prior to disposal. The rinse water used in these containers will be disposed of in a manner in compliance with state and federal regulations and will not be allowed to mix with storm water discharges.

C. Hazardous Waste

All hazardous waste materials will be disposed of by the Contractor in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. Site personnel will be instructed in these practices by the job site superintendent, who will also be responsible for seeing that these practices are followed.

D. Product Specific Practices

The following product specific practices will be followed on the job site.

1. Petroleum Products

All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any petroleum storage tanks stored onsite will be located within a containment area that is designed with an impervious surface between the tank and the ground. The secondary containment must be designed to provide a containment volume that is equal to 110% of the volume of the largest tank. Drip pans shall be provided for all dispensers. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations. The location of any fuel tanks and/or equipment storage areas must be identified on a plan by the contractor once the locations have been determined.

2. Fertilizers

Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked in the soil to limit exposure to stormwater. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

3. Paints, Paint Solvents, and Cleaning Solvents

All containers will be tightly sealed and stored when not in use. Excess paint and solvents will not be discharged to the storm sewer system but will be properly disposed of according to manufacturer's instructions or state and federal regulations.

4. Concrete Wastes

Concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water on the site, but only in either (1) specifically designated diked areas which have been prepared to prevent contact between the concrete and/or wash out and storm water which will be discharged from the site or (2) in locations where waste concrete can be poured into forms to make riprap or other useful concrete products.

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The hardened residue from the concrete wash out diked areas will be disposed of in the same manner as other non-hazardous construction waste materials or may be broken up and used on site as deemed appropriate by the Contractor. The job site superintendent will be responsible for seeing that these procedures are followed.

All concrete wash out areas will be located in an area where the likelihood of the area contributing to storm water discharges is negligible. If required, additional BMPs must be implemented to prevent concrete wastes from contributing to storm water discharges. The location of concrete wash out area(s) must be identified on a plan by the contractor once the locations have been determined. In addition, a standard detail on the construction of the concrete wash out shall be included on this plan.

E. Solid and Construction Wastes

All waste materials will be collected and stored in an appropriately covered container and/or securely lidded metal dumpster rented from a local waste management company which must be a solid waste management company licensed to do business in New York and the Town of Amherst. The dumpster will comply with all local and state solid waste management regulations.

All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of twice per week or more often if necessary, and the trash will be hauled to a landfill approved by the NYSDEC. No construction waste materials will be buried on site. All personnel will be instructed regarding the correct procedures for waste disposal.

All waste dumpsters and roll-off containers will be located in an area where the likelihood of the containers contributing to storm water discharges is negligible. If required, additional BMPs must be implemented, such as sandbags around the base, to prevent wastes from contributing to storm water discharges. The location of waste dumpsters and roll-off containers must be identified on a plan by the contractor once the locations have been determined.

F. Sanitary Wastes

Portable toilet units or field offices with toilet facilities connected to the municipal sanitary sewer will be used for sanitary purposes. All portable toilet units will be emptied a minimum of once per week by a licensed portable facility provided in compliance with local and state regulations.

All sanitary waste units will be located in an area where the likelihood of the unit contributing to storm water discharges is negligible. If required, additional BMPs must be implemented, such as sandbags around the base, to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on a plan by the contractor once the locations have been determined.

G. Contaminated Soils

Any contaminated soils (resulting from spills of materials with hazardous properties) which may result from construction activities will be contained and cleaned up immediately in accordance with the procedures given in the Materials Management Plan and in accordance with applicable state and federal regulations.

118.3 SPILL PREVENTION AND RESPONSE PROCEDURES

The Contractor will train all personnel in the proper handling and cleanup of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with

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storm water discharges. If such contact occurs, the storm water discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job site superintendent to properly train all personnel in spill prevention and clean up procedures.

A. In order to minimize the potential for a spill of hazardous materials to come into contact with storm water, the following steps will be implemented:

1. All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, cleaning solvents, additives for soil stabilization, concrete curing compounds and additives, etc.) will be stored in a secure location, with their lids on, preferably under cover, when not in use.

2. The minimum practical quantity of all such materials will be kept on the job site.

3. A spill control and containment kit (containing, for example, absorbent materials, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.

4. Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.

B. In the event of a spill, the following procedures should be followed

1. All spills will be cleaned up immediately after discovery.

2. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with the hazardous substances.

3. The project manager and the Engineer of Record will be notified immediately.

   Spills of toxic or hazardous materials will be reported to the appropriate federal, state, and/or local government agency, regardless of the size of the spill. Spills of amounts that exceed Reportable Quantities of certain substances specifically mentioned in federal regulations (40 CFR 110, 40 CFR 117, and 40 CFR 302) must be immediately reported to the EPA National Response Center, telephone 1-100-424-1102. From SWPPP-9 “Reportable Quantity Release Form” must be filled out.

4. If the spill exceeds a Reportable Quantity, the SWPPP must be modified within seven (7) calendar days of knowledge of the discharge to provide a description of the release, the circumstances leading to the release, and the date of the release. The plans must identify measures to prevent the recurrence of such releases and to respond to such releases.

C. The job site superintendent will be the spill prevention and response coordinator. He will designate the individuals who will receive spill prevention and response training. These individuals will each become responsible for a particular phase of prevention and response. The names of these personnel will be posted in the material storage area and in the office trailer onsite.

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119 CONTROL OF NON-STORM WATER DISCHARGES

Certain types of discharges are allowable under the NYSDEC SPDES General Permit for Construction Activity for the State of New York, and it is the intent of this SWPPP to allow such discharges. These types of discharges will be allowed under the conditions that no pollutants will be allowed to come in contact with the water prior to or after its discharge. The control measures which have been outlined previously in this SWPPP will be strictly followed to ensure that no contamination of these non-storm water discharges takes place. The following allowable non-storm water discharges which may occur at the job site include:

A. Discharges from firefighting activities.

B. Fire hydrant flushings (see note below)

C. Waters used to wash vehicles or control dust in order to minimize offsite sediment tracking.

D. Routine external building washdown which does not use detergents.

E. Pavement wash waters where spills or leaks of hazardous materials have not occurred or detergents have not been used.

F. Air conditioning condensate.

G. Springs or other uncontaminated groundwater, including dewatering ground water infiltration.

H. Foundation or footing drains where no contamination with process materials such as solvents is present.

Note: The Contractor shall discharge any super-chlorinated water from water distribution pipe disinfection activities into sanitary sewer system

120 STORM WATER CONTROL FACILITY MAINTENANCE

The frequency of inspections for the bioretention areas shall match the frequencies listed on the “Bioretention Operation, Maintenance and Management Inspection Checklist” in Appendix K of the SWPPP.

The proposed catch basins, as per section 115, shall be inspected 4 times per year for removal of floatable debris. Any silt buildup over 6” in depth shall be removed and disposed of properly off-site.

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Appendix A

Site Location Map

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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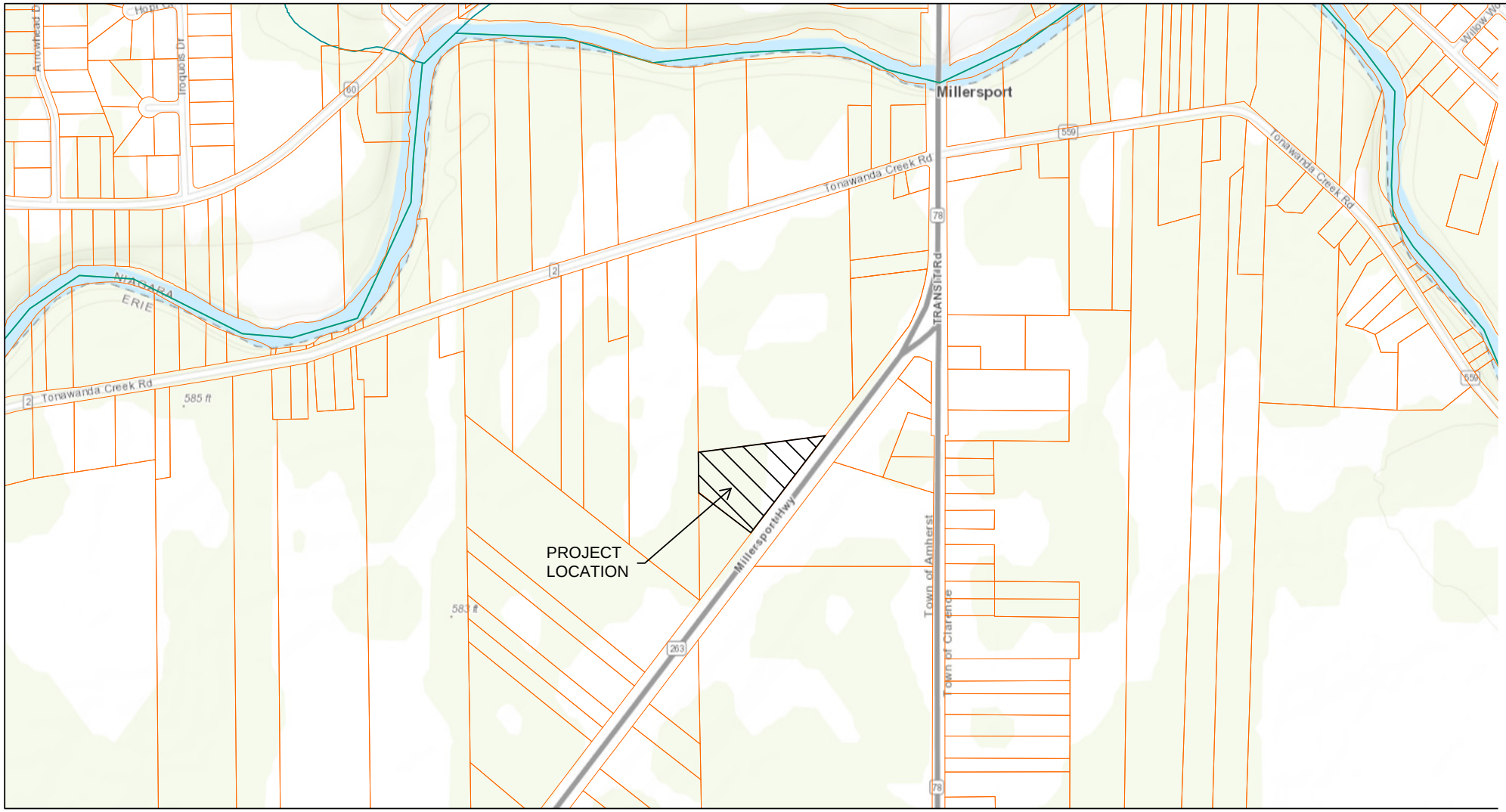
Site Location Map



August 13, 2024

1:9,028

0 0.07 0.15 0.3 mi

0 0.13 0.25 0.5 kr

Province of Ontario, Ontario MNR, Esri Canada, Esri, HE
Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USD
NYS Departm

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Not a legal document

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Stormwater Interactive Map



The coordinates of the point you clicked on are:

UTM 18	**Easting:**	198716.139	**Northing:**	4776371.041
Longitude/Latitude	**Latitude:**	43.080	**Longitude:**	-78.701

The approximate address of the point you clicked on is:
14051, East Amherst, New York

County: Erie
Town: Amherst
USGS Quad: CLARENCE CENTER

DEC Administrative Boundaries

Region 9:
(Western New York) Allegany, Chautauqua, Cattaraugus, Erie, Niagara and Wyoming counties. For more information visit http://www.dec.ny.gov/about/617.html.

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Appendix B

NYSDEC Notice of Intent (NOI)

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NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR _____ (for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-20-001

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-
RETURN THIS FORM TO THE ADDRESS ABOVE
OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
Stephens Property Holdings, LLC

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Stephens

Owner/Operator Contact Person First Name
Kevin

Owner/Operator Mailing Address
kjs@stephensplumbingny.com

City
East Amherst

State: NY Zip: 14051 -

Phone (Owner/Operator): 716 - 512 - 9451 Fax (Owner/Operator): ___ - ___ - ____

Email (Owner/Operator)
kjs@stephensplumbingny.com

FED TAX ID
93 - 2456229 (not required for individuals)

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Project Site Information

Project/Site Name

PROPOSED WAREHOUSE BUILDINGS

Street Address (NOT P.O. BOX)

5500 MILLERSPORT Highway

Side of Street

● **North** ○ **South** ○ **East** ○ **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)

Amherst

State: NY

Zip: 14051 -

County: Erie

DEC Region: 9

Name of Nearest Cross Street

Transit Road

Distance to Nearest Cross Street (Feet)

1000

Project In Relation to Cross Street

○ **North** ○ **South** ○ **East** ● **West**

Tax Map Numbers
Section-Block-Parcel

4.00-3.20

Tax Map Numbers

4.00-3.20

1. Provide the Geographic Coordinates for the project site. To do this, go to the NYSDEC Stormwater Interactive Map on the DEC website at:

https://gisservices.dec.ny.gov/gis/stormwater/

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located the centroid of your project site, go to the bottom right hand corner of the map for the X, Y coordinates. Enter the coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting)

78.701

Ex. -73.749

Y Coordinates (Northing)

43.080

Ex. 42.652

2. What is the nature of this construction project?

○ **New Construction**

● **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

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3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use

- ○ FOREST
- ○ PASTURE/OPEN LAND
- ○ CULTIVATED LAND
- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ● COMMERCIAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY
- ○ PARKING LOT
- ○ OTHER

Post-Development Future Land Use

- ○ SINGLE FAMILY HOME — Number of Lots
- ○ SINGLE FAMILY SUBDIVISION
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ● COMMERCIAL
- ○ MUNICIPAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY (water, sewer, gas, etc.)
- ○ PARKING LOT
- ○ CLEARING/GRADING ONLY
- ○ DEMOLITION, NO REDEVELOPMENT
- ○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
- ○ OTHER

***Note**: for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
5.0	1.7	0.2	1.1

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ● **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
%	%	%	100 %

7. Is this a phased project? ○ **Yes** ● **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date	End Date
12/20/2024	12/20/2026

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

Unnamed tributary to Ransom Creek

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ● Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001? ● **Yes** ○ **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001? ○ **Yes** ● **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ● **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ **Yes** ● **No**
If Yes, what is the acreage to be disturbed?

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ● **No**

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ◉ Yes ○ No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

Town of Amherst

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ◉ No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ◉ No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ◉ No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ◉ No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ◉ Yes ○ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ◉ Yes ○ No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ◉ Yes ○ No

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer: Carmina Wood Design

Contact Name (Last, Space, First): Wood Christopher

Mailing Address: 80 Silo City Row, Suite 100

City: Buffalo

State: NY Zip: 14203-

Phone: 716-842-3165 Fax: --- --- ----

Email: cwood@carminawooddesign.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name: Christopher **MI**:

Last Name: Wood

Signature

Date: 11/20/2024

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

25. Has a construction sequence schedule for the planned management practices been prepared? ● Yes ○ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ● Stabilized Construction Entrance
- ● Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ● Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ○ Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ○ Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ● **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ● **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ○ **Roadway Reduction**
- ● **Sidewalk Reduction**
- ● **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ○ **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ● All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- ○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

		0	.	0	9	2

acre-feet

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area (acres)	
RR Techniques (Area Reduction)				
○ Conservation of Natural Areas (RR-1)		and/or		
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or		
○ Tree Planting/Tree Pit (RR-3)		and/or		
○ Disconnection of Rooftop Runoff (RR-4)		and/or		
RR Techniques (Volume Reduction)				
○ Vegetated Swale (RR-5)				
○ Rain Garden (RR-6)				
○ Stormwater Planter (RR-7)				
○ Rain Barrel/Cistern (RR-8)				
○ Porous Pavement (RR-9)				
○ Green Roof (RR-10)				
Standard SMPs with RRv Capacity				
○ Infiltration Trench (I-1)				
○ Infiltration Basin (I-2)				
○ Dry Well (I-3)				
○ Underground Infiltration System (I-4)				
○ Bioretention (F-5)			1.3	
○ Dry Swale (O-1)				
Standard SMPs				
○ Micropool Extended Detention (P-1)				
○ Wet Pond (P-2)				
○ Wet Extended Detention (P-3)				
○ Multiple Pond System (P-4)				
○ Pocket Pond (P-5)				
○ Surface Sand Filter (F-1)				
○ Underground Sand Filter (F-2)				
○ Perimeter Sand Filter (F-3)				
○ Organic Filter (F-4)				
○ Shallow Wetland (W-1)				
○ Extended Detention Wetland (W-2)				
○ Pond/Wetland System (W-3)				
○ Pocket Wetland (W-4)				
○ Wet Swale (O-2)				

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Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area(acres)
○ **Hydrodynamic**	
○ **Wet Vault**	
○ **Media Filter**	
○ **Other** _____	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

0.018 **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ● **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

0.018 **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

● **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

0.073 **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). 0.092

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ◉ **Yes** ○ **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

0.058 **acre-feet**

CPv Provided

0.058 **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

16.36 **CFS**

Post-development

10.95 **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

29.75 **CFS**

Post-development

19.91 **CFS**

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37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ● Yes ○ No

If Yes, Identify the entity responsible for the long term Operation and Maintenance

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

Existing site conditions prevent the use of an infiltration technique and or infiltration of the total WQv due to soils with a low infiltration rate.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ][ ]
- ○ Other [ ]
- ● None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ● **No**
If Yes, Indicate Size of Impact. [ ][ ][ ][ ][ ].[ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ● **Yes** ○ **No**
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ● **Yes** ○ **No**

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. [N][Y][R][ ][ ][ ][ ][ ][ ]

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

3547089826

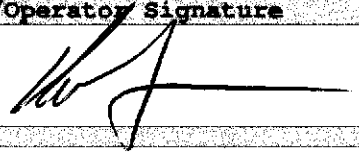
Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name KEVIN **MI** J

Print Last Name STEPHENS

Owner/Operator Signature



Date 11/20/2024

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix C

MS4 SWPPP Acceptance Form

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information	
1. Owner/Operator Name:	Kevin Stephens
2. Contact Person:	Kevin Stephens
3. Street Address:	5500 Millersport Highway
4. City/State/Zip:	East Amherst/NY/14051
II. Project Site Information	
5. Project/Site Name:	Proposed Warehouse Buildings
6. Street Address:	5500 Millersport Hwy
7. City/State/Zip:	Amherst, NY 14051
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	
9. Title/Position:	
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4:	
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Contact Person:	
14. Street Address:	
15. City/State/Zip:	
16. Telephone Number:	

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix D

Engineer's Report

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

CARMINAWOOD
DESIGN

ENGINEER'S REPORT

for

Proposed Warehouse Buildings

5500 Millersport Hwy
Amherst, County of Erie, NY

Prepared for

Stephens Plumbing

Kevin Stephens
5500 Millersport Hwy, East Amherst, NY 14051

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

Telephone: (716) 842-3165
Fax: (716) 842-0263

November 2024



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Table of Contents

Written Engineer's Report

Section 1 - Location & Description
Section 2 - Water Service
Section 3 - Sanitary Sewer Service
Section 4 - Storm Sewer Service

Appendices

Appendix A Sanitary Sewer and Water Demand Calculations

- Septic System Report

Appendix B Storm Sewer System Drainage Calculations

- Existing Runoff
- Proposed Runoff
    - Green Infrastructure & Water Quality Calculations

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Section 1 - Location & Description

This project is a development of a 4.98 acre site located on the far north-west side of Millersport Hwy in the Town of Amherst. Construction will consist of two separate buildings: a 11,350 sf warehouse building and a 6,500 sf Mix-Use building, and will also include associated utility, lighting and landscaping improvements. Currently the site is developed with an existing building and gravel parking lot. The proposed site development area to be disturbed for this project is approximately 1.72 acres when construction is completed. The site is currently zoned as "Commercial Service" and will not be rezoned.

Section 2 - Water Service

Water service for the Warehouse and Mix-Use buildings will be tapped off the existing 10" ECWA water main on the west side of Millersport Hwy. The proposed buildings will each have a 1.5" Polyethylene Domestic Service lateral connection to the 10" main. Water inside the buildings will be used for typical domestic uses.

Pipe material for the new combined service, fittings, valves, etc. will be installed in accordance with the Town of Amherst and Erie County Water Authority (ECWA). The proposed service will be installed and tested in accordance with the Town of Amherst and ECWA Standard Specifications. Inspection and certification of the installation and testing of the water samples will be done by the ECWA. There are no conflicts with existing utilities in the area. The proposed water service will maintain physical separation from other utilities as specified per Ten States Standards.

Domestic Summary:	
Peak Operating Demand:	1.84 gpm
Water Main:	10" on Millersport Hwy
Static Pressure:	92 psi (Per ECWA)
Friction Loss:	0.03 psi
Loss through meter/RPZ:	13.9 psi
Elevation Loss:	0.87 psi
Pressure after RPZ:	78.1 psi

Repairs to all devices will be made during off hours, dual backflow preventers are not required. The site is not located in a 100-year flood plain. Disinfection of the water service following installation will be continuous feed, according to AWWA C-651, latest revision.

Section 3 - Sanitary Sewer Service

The proposed buildings will each have a 4" SDR-35 PVC sanitary lateral at 1.0% minimum slope. These laterals will connect to the proposed on-site Septic System.

Design Parameters

Warehouse Building:	15 gal/day/employee x 30 employees = 450 gpd
Apartment Building:	110 gal/day/unit x 2 units = 220 gpd
670 gpd * 4.26 = 2,854 gpd	*use peaking factor of 4.26

The hydraulic loading rate is per "Design Standards for Intermediate Sized Wastewater Treatment Systems" 2014, NYSDEC.

The Septic System report is included in Appendix A of this report.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Section 4 - Storm Sewer Service

The existing site currently sheet drains in multiple directions, either north to existing onsite drainage ditch on the north Property line or southeast towards the existing drainage ditch along Millersport Hwy. Ultimately all on site stormwater runoff flows into the Town of Amherst stormwater sewer along the southeast side of Millersport Hwy.

Stormwater runoff collected onsite as a result of the proposed development will be routed through the proposed storm sewer system consisting of a bioretention areas and a dry detention basin connected by a series of catch basins and smooth interior HDPE stormwater pipe. The bioretention areas on site are designed to provide 100% of the required runoff reduction volume (RRv) and water quality treatment (WQv) for the 1.72 tributary area (see below). The soils in the vicinity of the bioretention areas are mainly USDA hydrologic group 'D' and therefore the system will be installed with underdrains per NYSDEC requirements. The bioretention areas will consist of 8" perforated HDPE underdrains in 12" of drainage gravel, followed by filter fabric and then finally 18" minimum of planting soil. Overflow yard drains will be installed to allow 6" maximum ponding for RRv treatment. Stormwater detention is required per NYSDEC standards and specifications. A 12" outlet control pipe will be provided within the basin to attenuate proposed runoff to required existing conditions prior to discharge off site. Discharge from the detention pond will outlet to an existing Town of Amherst stormwater ditch along the north property line.

Runoff reduction volume (RRv), water quality volume (WQv) and stormwater volume attenuation for the site is designed in accordance with Chapter 4 of the NYSDEC Stormwater design manual. The bioretention areas are provided as a "green infrastructure" practice to provide runoff reduction and water quality treatment to meet the Chapter 4 requirements for the currently undeveloped areas. Runoff from the site was looked at as a whole for the calculation of volume attenuation requirements. The existing site has a pre-development total of 0.25 acres of impervious cover. The amount of impervious cover post-development is 1.13 acres, an increase of 0.88 acres in impervious area on site. The proposed dry detention pond is designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates, as well as the below stated Town stormwater runoff requirements.

Town of Amherst Requirement:
The Town of Amherst requires that the 25-year proposed storm event be attenuated with detention and that the outlet flowrate be restricted to the 10-year existing storm event. This volume of 7,490 cf is accommodated in the detention basin at elevation 583.83. At this elevation, the outlet discharge will be restricted to 0.57 cfs from the pond, which is less than the existing 10-year peak runoff outflow of 16.36 cfs of the overall site.

Detention Pond Summary:
Top of basin elevation = 585.50
Bottom of basin elevation = 581.54
100-year storm storage volume = 9,158 cf @ 584.21

Water Quality Summary:
WQv req'd = 4,004 cf (0.092 ac-ft)
RRv min. req'd = 779 cf (0.018 ac-ft)
RRv provided - bioretention area = 800 cf (0.018 ac-ft)
WQv provided – bioretention area = 3,204 cf (0.073 ac-ft)
Total RRv + WQv provided = 800 cf + 3,204 cf = 4,004 cf (0.092 ac-ft)

Bioretention: 100% of minimum post-development Runoff Reduction volume (RRv)
& Water Quality Volume (WQv)
Area: 1,500 sf
Bottom Elevation: 584.50

Detention: Comparison of the existing 1-year vs. the proposed 1-year runoff
Comparison of the existing 10-year vs. the proposed 10-year runoff
Comparison of the existing 10-year vs. the proposed 25-year runoff
Comparison of the existing 100-year vs. the proposed 100-year runoff

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Runoff Summary:

Event	Ex. Runoff (cfs)*	Pro. Runoff (cfs)**	Result (cfs)
1-year	5.93	4.03	-1.90
10-year	16.36	10.96	-5.40
25-year	21.53	14.39	-7.14
100-year	29.75	20.37	-9.38

* Existing runoff flowrate is the total of both the north and south subcatchments as shown Appendix B of this report.

** Proposed runoff flowrate is the rate controlled by the 12" outlet pipe from the detention pond which discharges to an existing manhole along Georgian Lane as shown Appendix B of this report.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix A

Sanitary Sewer and Water Demand Calculations

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

CARMINA WOOD DESIGN
80 SILO CITY WAY, SUITE 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 24-4019 Date: 11/20/2024
Project Name: Proposed Warehouse Buildings
Project Address: 5500 Millersport Highway Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 2

Sanitary Sewage Demand Calculations:

Proposed Apartments/Warehouse

110	gal/d/unit	x	2	units	=	220	gpd		*use 110 gallons per unit per day (1-bdrm)
15	gal/d/employee	x	30	employee	=	450	gpd		*use 10 gallons per employee per day

Total Site Sanitary Demand: = 670 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 670 gpd / 100 gpcd = 7 per capita

Population (P) = 7 people

Peaking Factor : (18 +ÖP) / (4 + ÖP) where P is in thousands

Peaking Factor = 4.43

Peak Sanitary Demand	=	670	x	4.43	=	2,968	gpd
					=	0.003	MGD
					=	0.005	cfs

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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Project Name: Proposed Warehouse Buildings

Project Address: 5500 Millersport Highway Amherst, NY

Subject: Sanitary Sewer & Water Demand Calcs

Sheet: 2 of 2

1.a

Water Demand Calculations (domestic):

Proposed Warehoues

670 gpd x 1.1 = 737 gpd *use 110% of sewage demand

*use 1.8 peaking factor and assume a 12 hour day

737 gpm x 1day/12hr x 1hr/60min = 1.02 gpm

1.02 gpm x 1.8 = 1.84 gpm Q_{peak}

Headlosses:

Q_{peak} = 1.84 gpm

Pipe = 1.50 inch Polyethylene C = 140

Length = 146 LF (approx. distance from tap to RPZ in hot box)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(146)(1.84)^{1.85}}{(140)^{1.85}\ (1.5)^{4.866}} = 0.07 \text{ ft} = 0.03 \text{ psi}$$

Δ elev = 2 ft = 0.87 psi

Loss through meter = 1 psi

Loss through RPZ = 12 psi

Total Losses = 13.9 psi

Static Pressure = 92 psi (per ECWA)

Residual Pressure Following RPZ = 92 - 13.9 = 78.1 psi (available after rpz & meter)

Residual Pressure 30" above 2nd Floor

Δ elev = 11 ft = 4.76 psi

Residual Pressure 30" above 2nd Floor = 73.3 psi

Water Demand Calculations (fire):

Proposed Warehouses

Q = 1,000 gpd

Headlosses:

Q_{peak} = 1000 gpm

Pipe = 6 inch Ductile Iron C = 140

Length = 70 LF (approx. distance from tap to RPDA in hot box)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(70)(1000)^{1.85}}{(140)^{1.85}\ (6)^{4.866}} = 4.54 \text{ ft} = 1.97 \text{ psi}$$

Δ elev = 2 ft = 0.87 psi

Loss Through RPZ = 12.0 psi

Total Losses = 14.8 psi

Static Pressure = 92.0 psi (per ECWA)

Residual Pressure after RPDA = 92 - 14.8 = 77.2 psi

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Septic System Report

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

CARMINAWOOD
DESIGN

SEPETIC SYSTEM REPORT

for

Proposed Warehouse Buildings

5500 Millersport Hwy
Amherst, County of Erie, NY

Prepared for

Stephens Plumbing

Kevin Stephens
5500 Millersport Hwy
East Amherst, NY 14051

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

Telephone: (716) 842-3165
Fax: (716) 842-0263

November 2024



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

General

This project is the construction of an 11,350-sf warehouse building and a 6,500-sf mixed use building consisting of 2,600 sf of office, 3,900 sf of warehouse and two apartment units. The location is south-west of the Transit Road and Millersport Highway intersection in Amherst, NY.

Design Basis

The design ss based on the NYSDEC Design Standards for Intermediate Sized Wastewater Treatment Systems, March 5, 2014, Section B.6.b, Design Flow, Table B-3. To determine the flow requirements, 110 gpd/bedroom and 15 gpd/employee this calculates out to be 670 gallons per day.

Site Evaluation

This is scheduled to be done, and the report will be updated once completed. A machine excavated test pit hole will be dug to a depth of 6' and soil conditions will be documented. Topsoil thickness will be measured. A percolation test was not done. Tests in the near proximity did not perc, so the expectation is that this land will not perc.

Soil Evaluation

This is scheduled to be done, and the report will be updated once completed. The above excavation will be dug and left for approximately 1 hour to allow for any ground water regeneration. Ground water depth will be observed and reported. Evidence of mottling will be checked. Depth of rock encountered will be reported.

Peak Wastewater Flow

The design will be based on a peak flow of 670 gallons per day. This was determined based on the NYSDEC Standards for Intermediate Sized Wastewater Treatment Systems, March 5, 2014, Section B.6.b, Design Flow, Table B-3, suggesting 110 gpd/bedroom and 15 gpd per employee.

Primary Treatment

Per NYSDEC Part D.6, Table D-2
Tank Size (gal) = 1.5Q

Warehouse Building Flow (gpd) =
Tank Size (gal) = 1.5 x 450 gpd = 675 gallons = use 1,000 gallon tank

Mixed use Building Flow (gpd) =
Tank size (gal) = 1.5 x 220 gpd = 330 gallons = use 1,000 gallon tank

Secondary Treatment

A sand filter system will be provided. A 1 bed system will be implemented and dosed with a dosing pump. Using the recommended sewage application rate of 1.0 gal/day/sf, the filter area required = 670 gpd / 1.0 gal/day/sf = 670 sf filter area. Based on the premise of (6) six 4" perforated PVC distribution lines, the filter area will consist of a 38' x 18' bed of (6) six lines @ 3.0' oc @ 34' lengths. The filter bed will have (3) three 4" perforated PVC under drains @ 6.0' oc @ 34' lengths. The bed will be surrounded by a 6 mil. liner to lessen the potential of infiltration by groundwater.

Minimum Separation Distance

All filter and absorption beds shall be located 20 ft min. from dwellings and 10 ft min. from property lines. All septic and pump tanks shall be a min. of 10 ft from all property lines and building foundations.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Downstream Absorption Mound

A "mound" of sand percolation rate between 5 and 30 minutes/inch) shall be installed following the sand filter outfall a min. of 24" in depth with 8" of NYSDOT #2 washed stone and (3) three 4" perforated PVC distribution lines covered with geotextile fabric & at least 6" of topsoil. Tapered slopes are not to exceed 3H:1V with a basal area of approximately 680 sf. Sizing is based on an application rate of 1.0 gpd/sf. The basal area required = 670 gpd / 1.0 gal/day/sf = 670 sf. Based on the filtration of effluent by means of the dosed sand filter, the mound does not require pressure distribution.

Pump Tank

Dosing Volume:

Capacity per dose:
87 ft total line length
0.0873 cf per 1' line length = 87 ft x 0.0873 cf = 7.6 cf
7.6 cf @ 7.481 gallons / cf = 57 Total Gallons in Lines

Dosing Chamber (pump tank):

Dose absorption bed with pump sized for dynamic and static heads and set to deliver a max of 75% of field distributor volume. Provide a 5' diameter precast concrete, pump tank by Kistner or equal.

57 gal x 75% = 43 gal
670 gpd / 43 gal = 15 Doses per Day Total

Provide Goulds Model 3886 pump or equal ½ HP Submersible Sewage Ejector Pump or equal.

Accessories & Ancillary Structures

Sand Filter

Provide a concrete distribution box with a minimum of 6 outlets as manufactured by Kistner or equal. Set on C.M.U. pier dead level. Seal all penetrations watertight.

Absorption Mound

Provide a concrete distribution box with a minimum of 3 outlets as manufactured by Kistner or equal. Set on C.M.U. pier dead level. Seal all penetrations watertight.

Electrical

Provide electrical service in compliance with National Electrical Code, including new circuits, underground feeders in conduit and all required connections. Provide level controls; pump control panel, alarms by Goulds or equal for pump energizing.

Alarm

Pumps are to have an audible and visual alarm for high water alerts and include a panel for the alarm. Run and off indicators to be installed in 6x6 p.t. post in field; use NEMA or equal waterproof box.

Installation

All work and components are to be in strict compliance with the NYSDEC requirements with inspections and approvals scheduled in advance. All lengths of PVC pipe to be true to line and level. Reject all curved or out of round pipe. No wheeled equipment to be permitted over beds. Seed all disturbed areas to lawn using a mix of 50% perennial rye and 25% shady Kentucky Blue Grass.

Provide swales to divert surface runoff from sand filter bed and mound.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix B

Storm Sewer System Drainage Calculations

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Existing Runoff

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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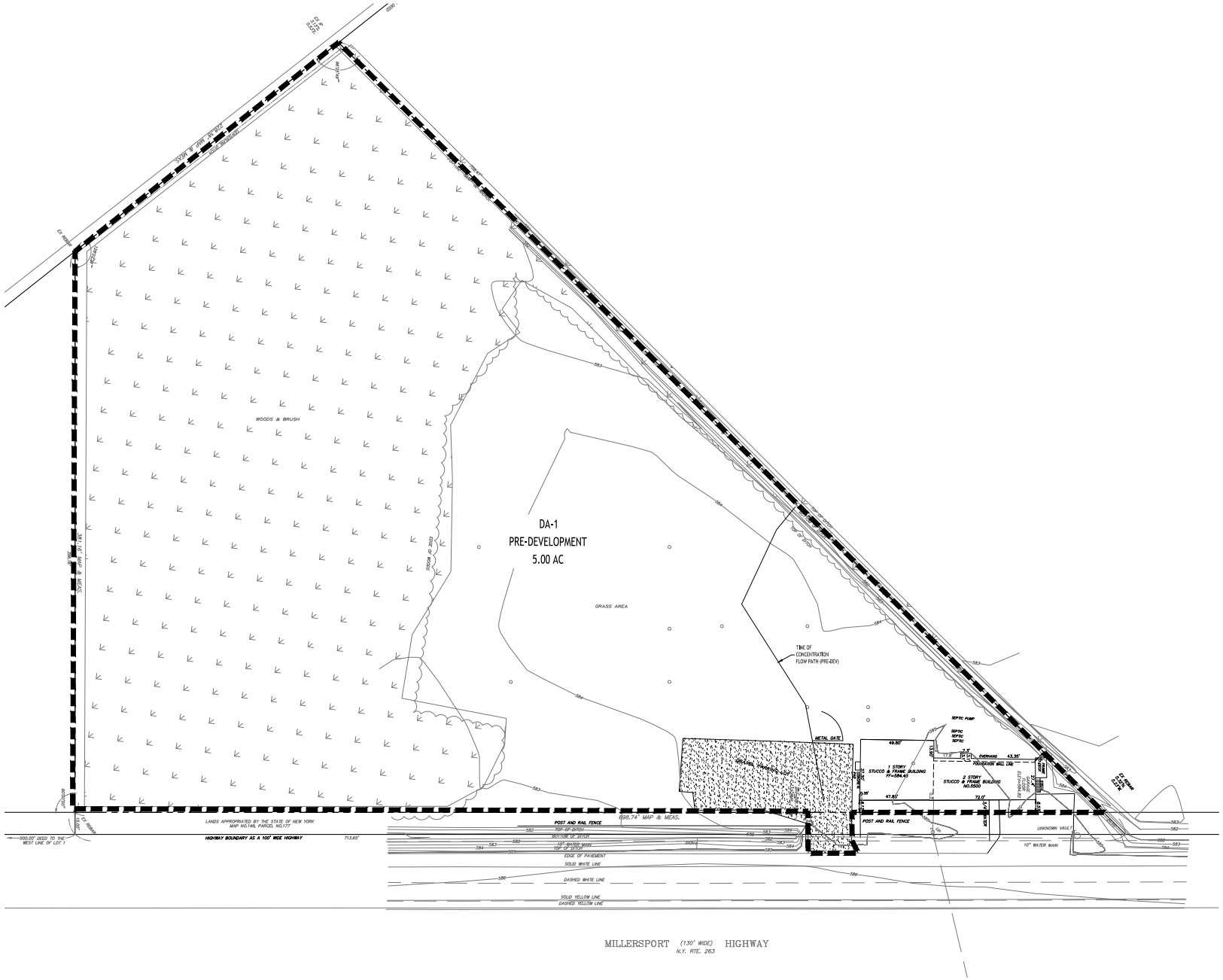


PRE-DEVELOPMENT DRAINAGE MAP

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY

30 0 30

Proposed Warehouse Buildings | CARMINAWO

REVISIONS:
No. Description Date

PRELIMINARY

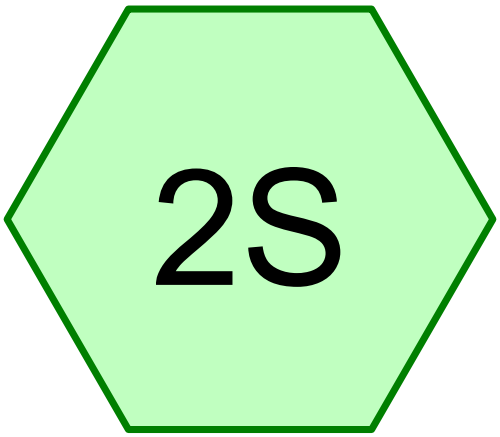
DRAWING NA
Pre-Deve
Drainage

Date: /19/24
Drawn By: C. Wood
Scale: As Noted
DRAWING NO.

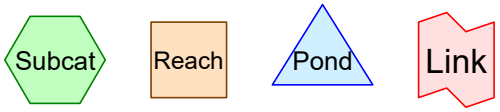
PROJECT NO: 24.4019

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



PRE-DEV



Routing Diagram for 24-4019 Hydrocad
Prepared by Carmina Wood Morris, PC, Printed 8/12/2024
HydroCAD® 10.20-2g s/n 05019 © 2022 HydroCAD Software Solutions LLC

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-YEAR	Type II 24-hr		Default	24.00	1	1.87	2
2	10-YEAR	Type II 24-hr		Default	24.00	1	3.30	2
3	25-YEAR	Type II 24-hr		Default	24.00	1	3.96	2
4	50-YEAR	Type II 24-hr		Default	24.00	1	4.46	2
5	100-YEAR	Type II 24-hr		Default	24.00	1	4.99	2

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 2S: PRE-DEV

[49] Hint: Tc<2dt may require smaller dt

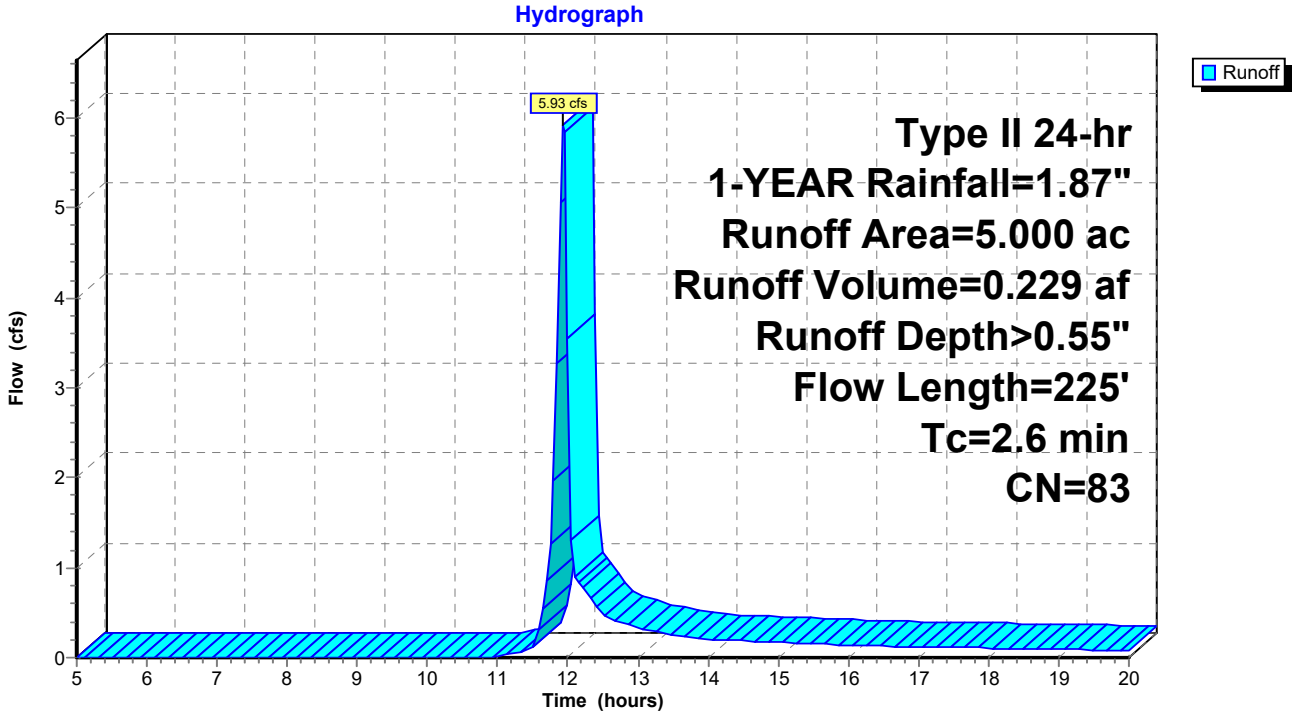
Runoff = 5.93 cfs @ 11.94 hrs, Volume= 0.229 af, Depth> 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-YEAR Rainfall=1.87"

Area (ac)	CN	Description
0.090	98	Roofs, HSG D
0.160	96	Gravel surface, HSG D
2.930	83	Woods, Poor, HSG D
1.820	80	>75% Grass cover, Good, HSG D
5.000	83	Weighted Average
4.910		98.20% Pervious Area
0.090		1.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.6	225	Total			

Subcatchment 2S: PRE-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 2S: PRE-DEV

[49] Hint: Tc<2dt may require smaller dt

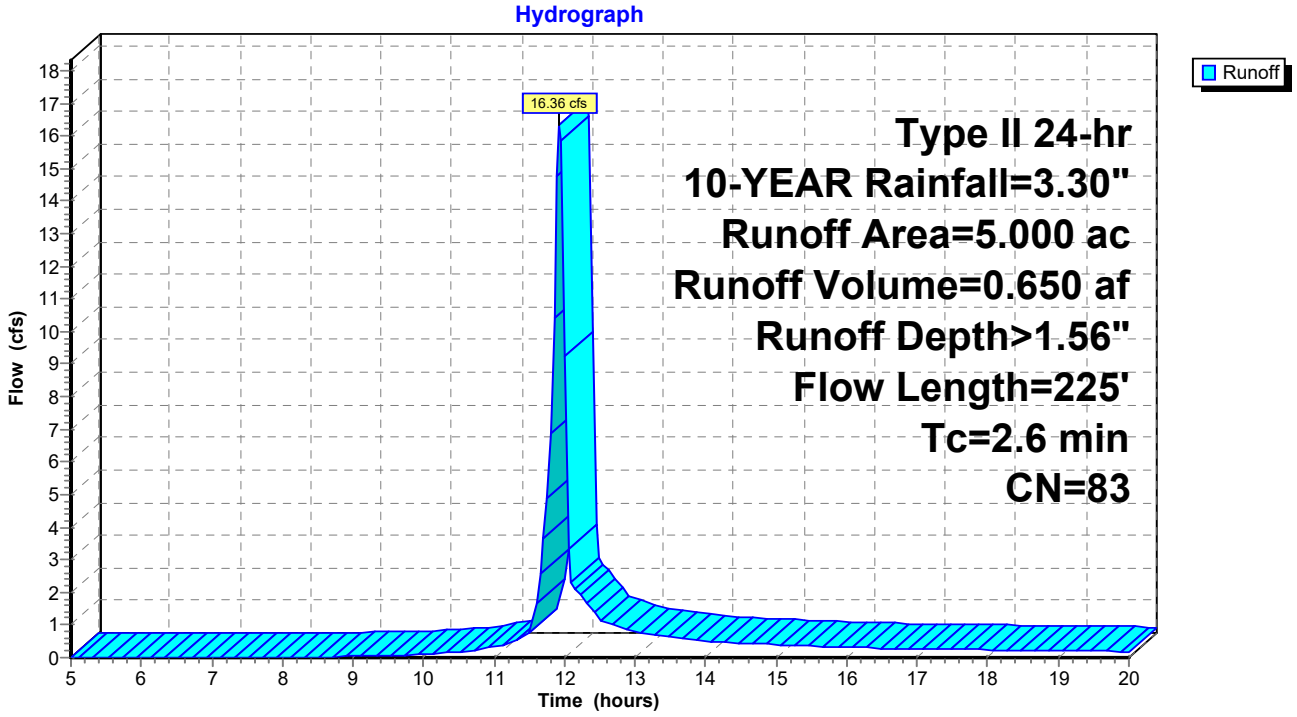
Runoff = 16.36 cfs @ 11.93 hrs, Volume= 0.650 af, Depth> 1.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-YEAR Rainfall=3.30"

Area (ac)	CN	Description
0.090	98	Roofs, HSG D
0.160	96	Gravel surface, HSG D
2.930	83	Woods, Poor, HSG D
1.820	80	>75% Grass cover, Good, HSG D
5.000	83	Weighted Average
4.910		98.20% Pervious Area
0.090		1.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.6	225	Total			

Subcatchment 2S: PRE-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 2S: PRE-DEV

[49] Hint: Tc<2dt may require smaller dt

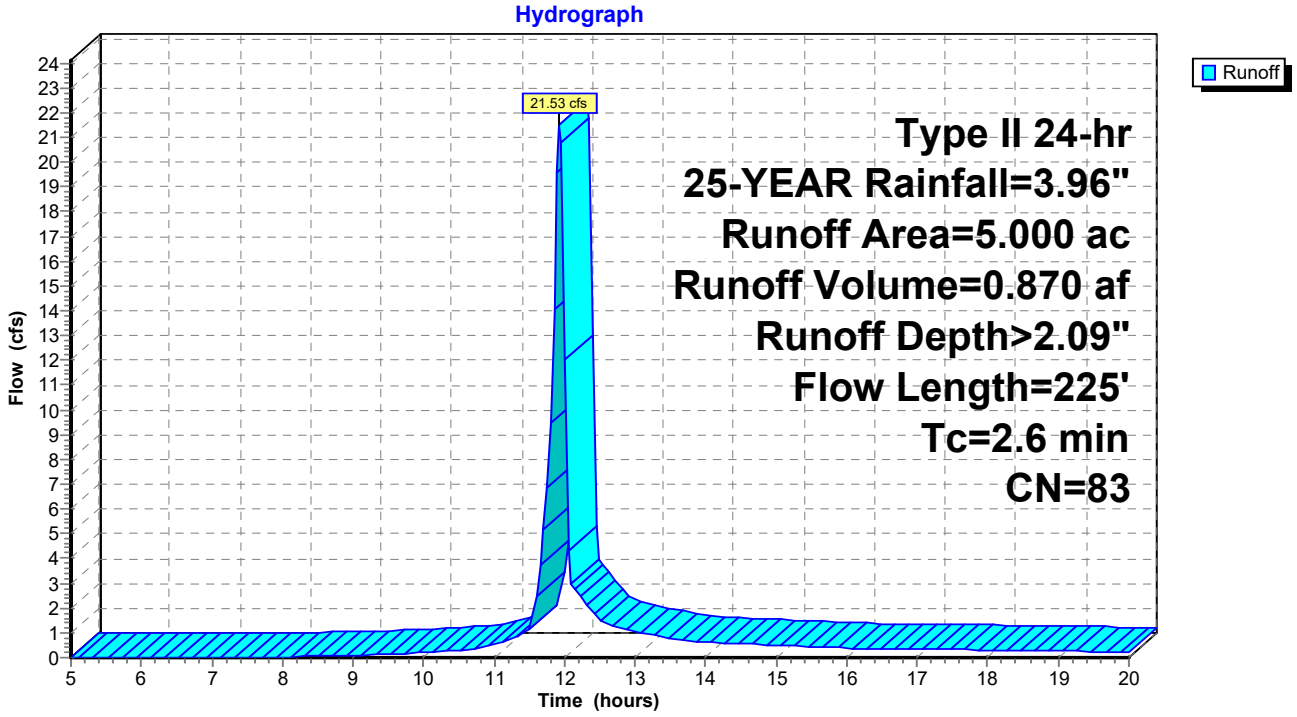
Runoff = 21.53 cfs @ 11.93 hrs, Volume= 0.870 af, Depth> 2.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-YEAR Rainfall=3.96"

Area (ac)	CN	Description
0.090	98	Roofs, HSG D
0.160	96	Gravel surface, HSG D
2.930	83	Woods, Poor, HSG D
1.820	80	>75% Grass cover, Good, HSG D
5.000	83	Weighted Average
4.910		98.20% Pervious Area
0.090		1.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.6	225	Total			

Subcatchment 2S: PRE-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 2S: PRE-DEV

[49] Hint: Tc<2dt may require smaller dt

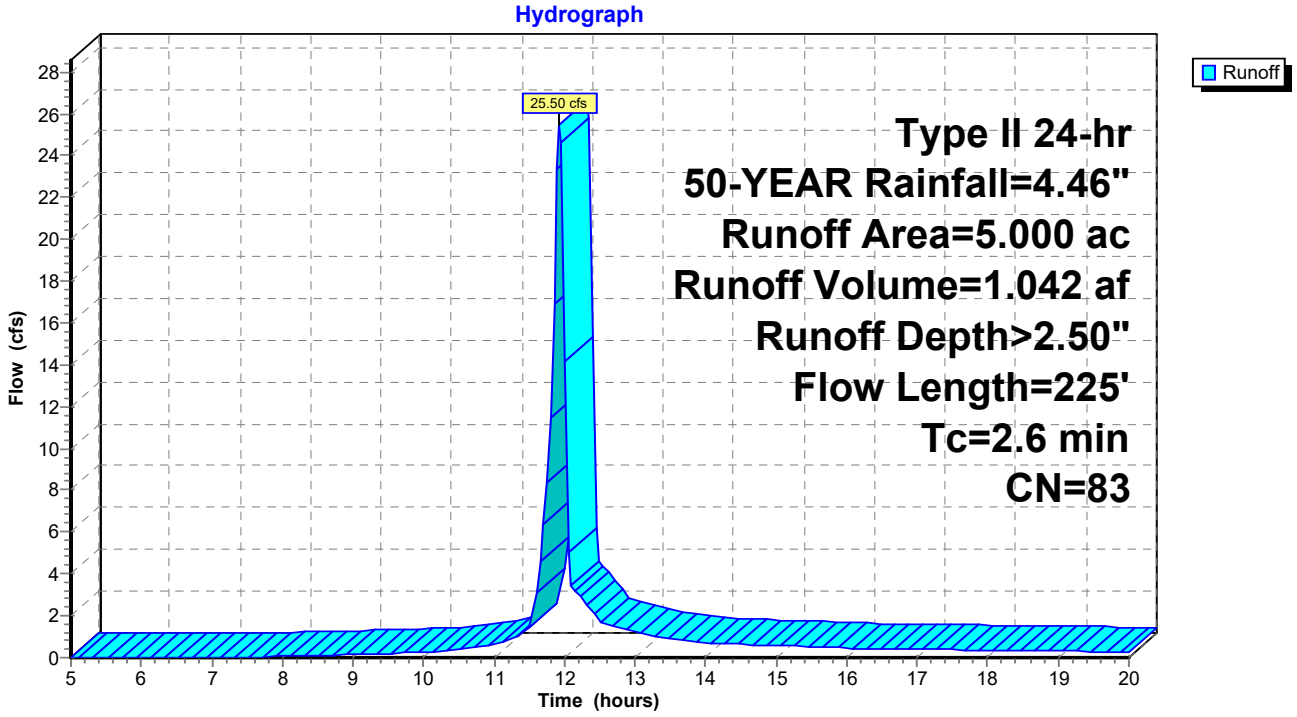
Runoff = 25.50 cfs @ 11.93 hrs, Volume= 1.042 af, Depth> 2.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 50-YEAR Rainfall=4.46"

Area (ac)	CN	Description
0.090	98	Roofs, HSG D
0.160	96	Gravel surface, HSG D
2.930	83	Woods, Poor, HSG D
1.820	80	>75% Grass cover, Good, HSG D
5.000	83	Weighted Average
4.910		98.20% Pervious Area
0.090		1.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.6	225	Total			

Subcatchment 2S: PRE-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 2S: PRE-DEV

[49] Hint: Tc<2dt may require smaller dt

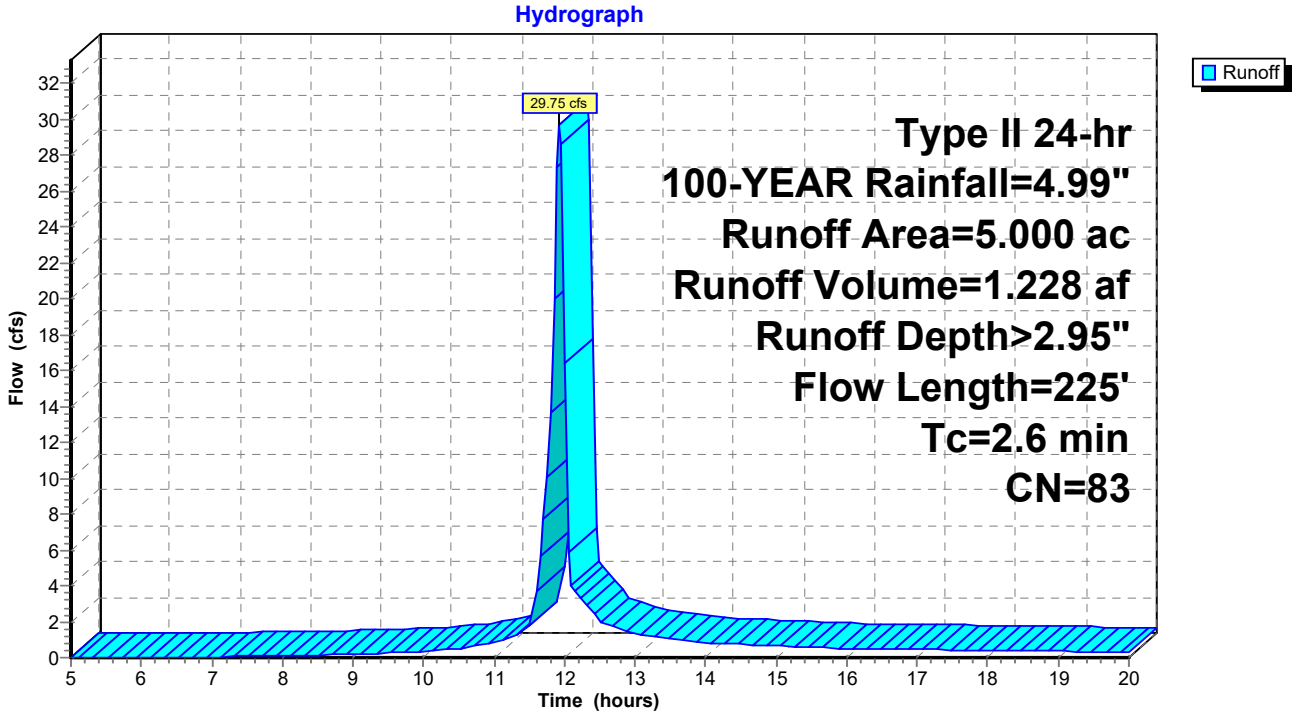
Runoff = 29.75 cfs @ 11.93 hrs, Volume= 1.228 af, Depth> 2.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-YEAR Rainfall=4.99"

Area (ac)	CN	Description
0.090	98	Roofs, HSG D
0.160	96	Gravel surface, HSG D
2.930	83	Woods, Poor, HSG D
1.820	80	>75% Grass cover, Good, HSG D
5.000	83	Weighted Average
4.910		98.20% Pervious Area
0.090		1.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.6	225	Total			

Subcatchment 2S: PRE-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Proposed Runoff

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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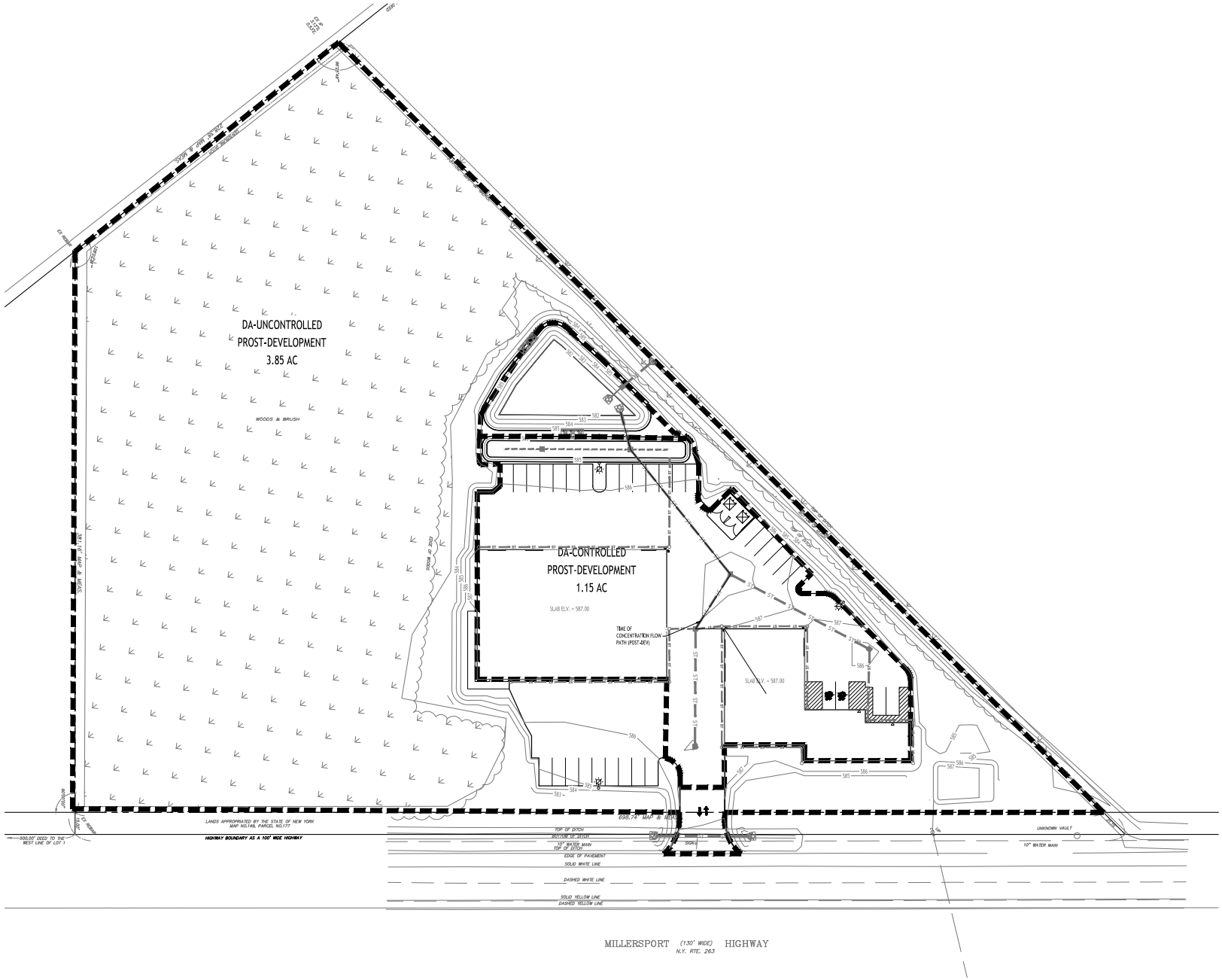

POST-DEVELOPMENT DRAINAGE MAP

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS.
CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY

CARMINAWOOD

Proposed Warehouse Buildings

REVISIONS:
No. Description Date

PRELIMINARY

DRAWING NAME
Post-Development Drainage

Date: ../19/24
Drawn By: C. Wood
Scale: As Noted
DRAWING NO.

Project No.: 24.4019

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport

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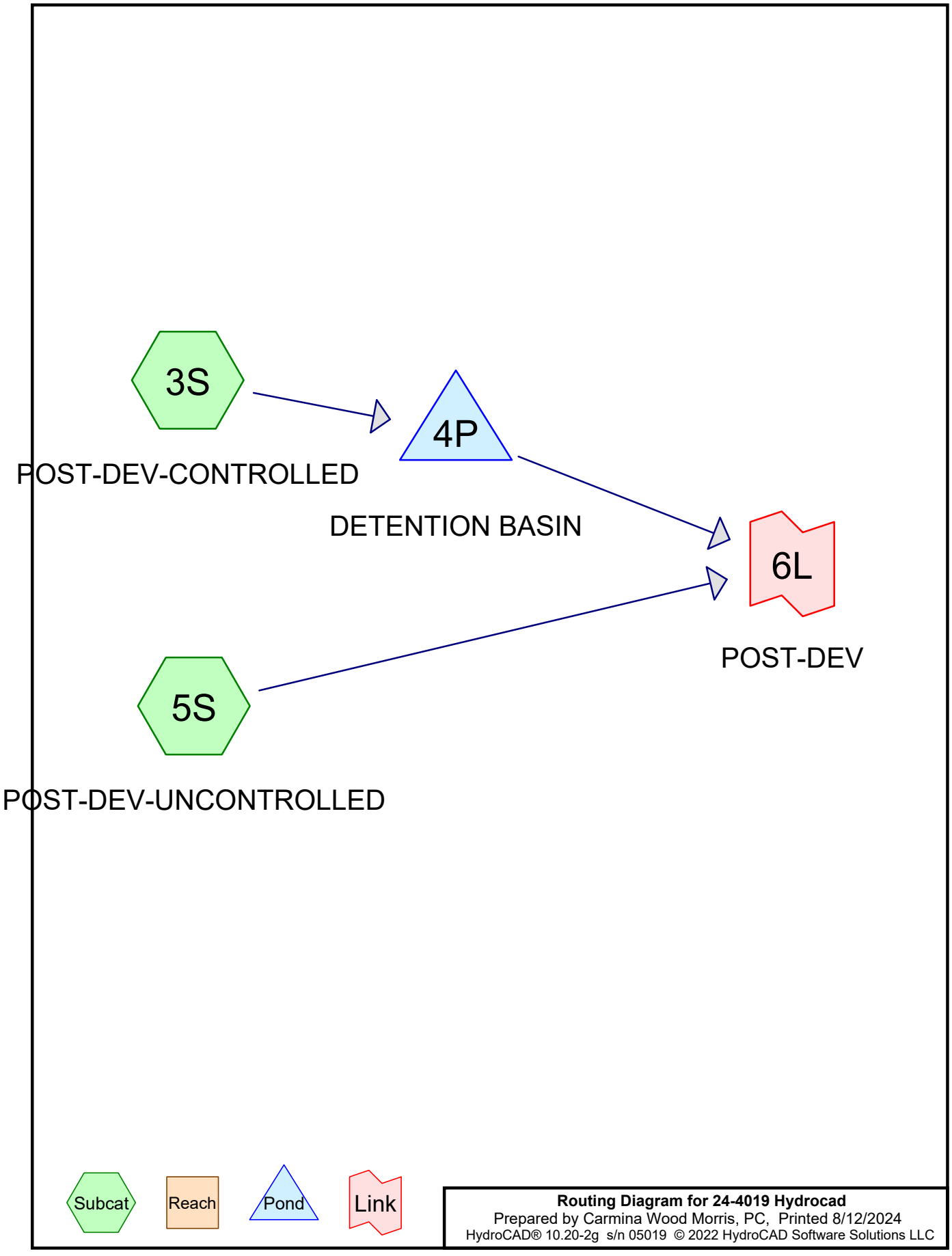

Routing Diagram for 24-4019 Hydrocad
Prepared by Carmina Wood Morris, PC, Printed 8/12/2024
HydroCAD® 10.20-2g s/n 05019 © 2022 HydroCAD Software Solutions LLC

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Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-YEAR	Type II 24-hr		Default	24.00	1	1.87	2
2	10-YEAR	Type II 24-hr		Default	24.00	1	3.30	2
3	25-YEAR	Type II 24-hr		Default	24.00	1	3.96	2
4	50-YEAR	Type II 24-hr		Default	24.00	1	4.46	2
5	100-YEAR	Type II 24-hr		Default	24.00	1	4.99	2

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.890	80	>75% Grass cover, Good, HSG D (3S, 5S)
0.890	98	Paved parking, HSG D (3S, 5S)
0.410	98	Roofs, HSG D (3S)
2.810	83	Woods, Poor, HSG D (5S)
5.000	**86**	**TOTAL AREA**

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
5.000	HSG D	3S, 5S
0.000	Other	
5.000		**TOTAL AREA**

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.890	0.000	0.890	>75% Grass cover, Good	3S, 5S
0.000	0.000	0.000	0.890	0.000	0.890	Paved parking	3S, 5S
0.000	0.000	0.000	0.410	0.000	0.410	Roofs	3S
0.000	0.000	0.000	2.810	0.000	2.810	Woods, Poor	5S
0.000	**0.000**	**0.000**	**5.000**	**0.000**	**5.000**	**TOTAL AREA**	

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Pipe Listing (selected nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	3S	0.00	0.00	238.0	0.0040	0.013	0.0	12.0	0.0
2	4P	581.65	581.30	65.0	0.0054	0.013	0.0	12.0	0.0
3	4P	581.80	581.75	4.0	0.0125	0.013	0.0	4.0	0.0

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment3S: Runoff Area=1.460 ac 78.77% Impervious Runoff Depth>1.19"
Flow Length=288' Tc=2.2 min CN=94 Runoff=3.38 cfs 0.145 af

Subcatchment5S: Runoff Area=3.540 ac 4.24% Impervious Runoff Depth>0.55"
Flow Length=225' Tc=8.3 min CN=83 Runoff=3.42 cfs 0.162 af

Pond 4P: DETENTION BASIN Peak Elev=582.85' Storage=2,938 cf Inflow=3.38 cfs 0.145 af
Outflow=0.39 cfs 0.141 af

Link 6L: POST-DEV Inflow=3.80 cfs 0.302 af
Primary=3.80 cfs 0.302 af

Total Runoff Area = 5.000 ac Runoff Volume = 0.307 af Average Runoff Depth = 0.74"
74.00% Pervious = 3.700 ac 26.00% Impervious = 1.300 ac

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 3S: POST-DEV-CONTROLLED

[49] Hint: Tc<2dt may require smaller dt
[47] Hint: Peak is 150% of capacity of segment #2

Runoff = 3.38 cfs @ 11.92 hrs, Volume= 0.145 af, Depth> 1.19"
Routed to Pond 4P : DETENTION BASIN

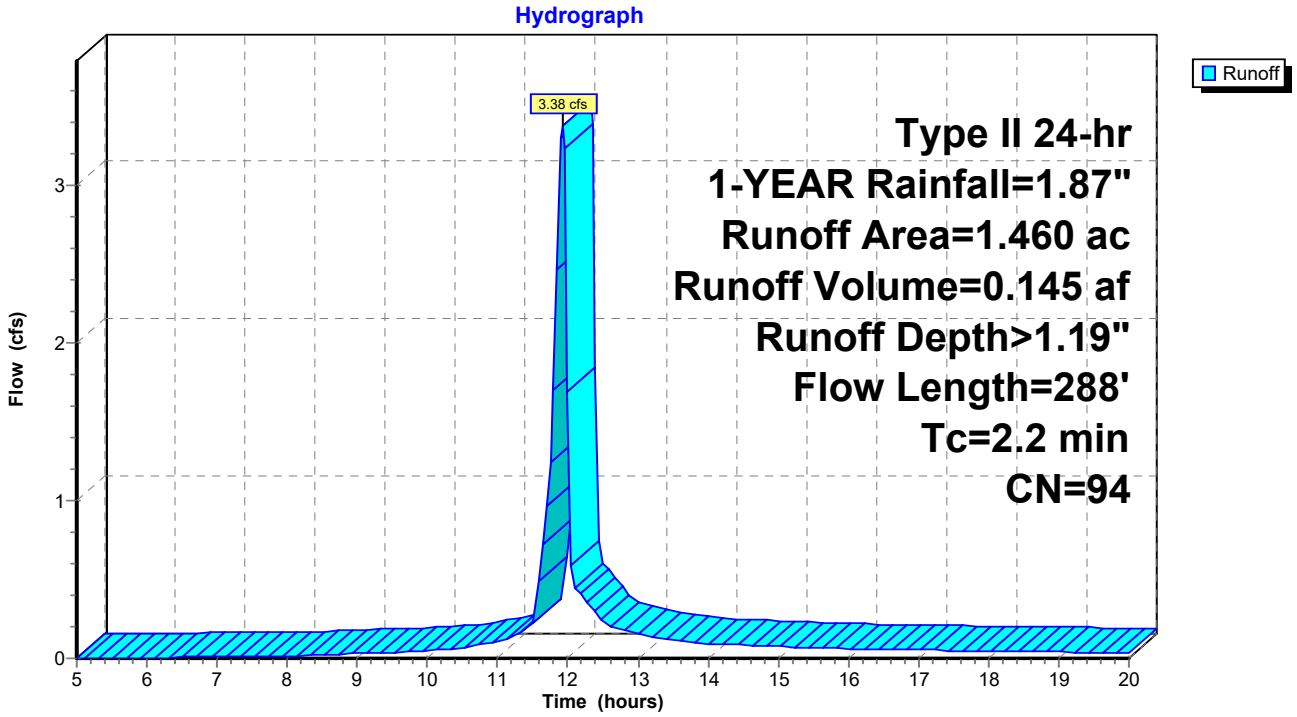
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-YEAR Rainfall=1.87"

Area (ac)	CN	Description
0.740	98	Paved parking, HSG D
0.410	98	Roofs, HSG D
0.310	80	>75% Grass cover, Good, HSG D
1.460	94	Weighted Average
0.310		21.23% Pervious Area
1.150		78.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.4	238	0.0040	2.87	2.25	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
2.2	288	Total			

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Subcatchment 3S: POST-DEV-CONTROLLED



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 5S: POST-DEV-UNCONTROLLED

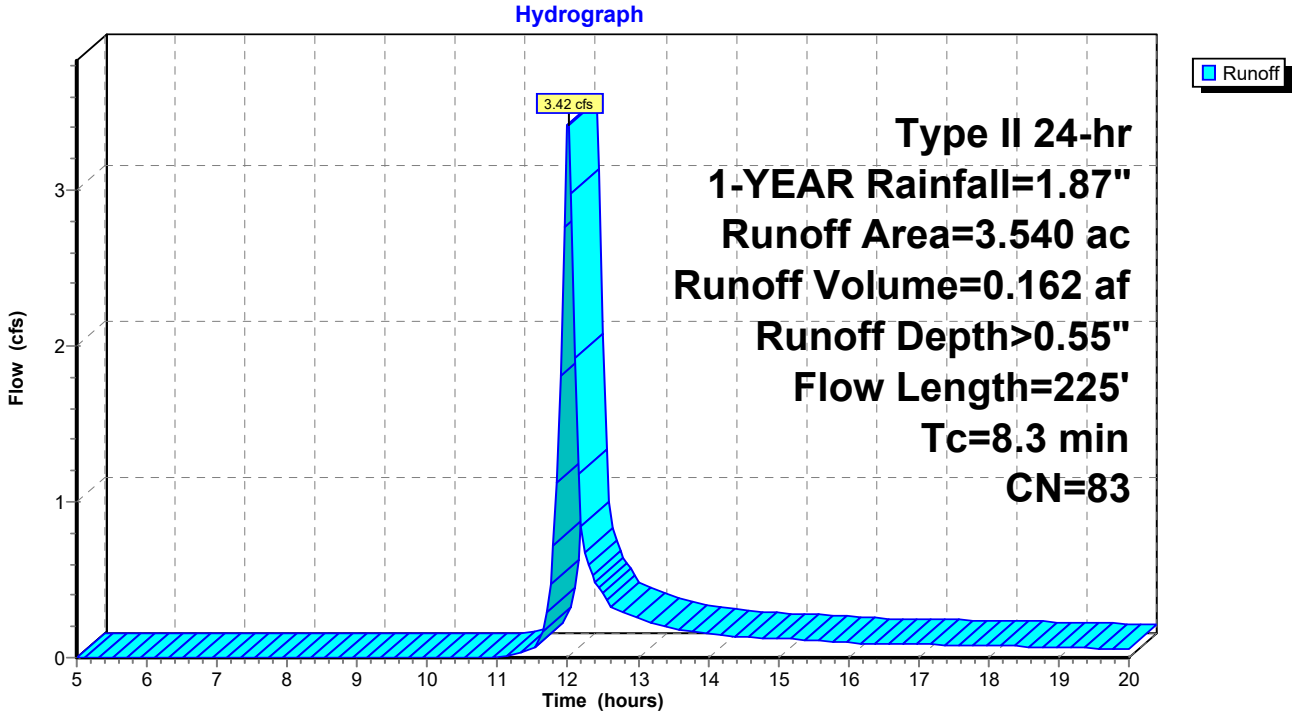
Runoff = 3.42 cfs @ 12.00 hrs, Volume= 0.162 af, Depth> 0.55"
Routed to Link 6L : POST-DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-YEAR Rainfall=1.87"

Area (ac)	CN	Description
2.810	83	Woods, Poor, HSG D
0.580	80	>75% Grass cover, Good, HSG D
0.150	98	Paved parking, HSG D
3.540	83	Weighted Average
3.390		95.76% Pervious Area
0.150		4.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	50	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
8.3	225	Total			

Subcatchment 5S: POST-DEV-UNCONTROLLED



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Pond 4P: DETENTION BASIN

Inflow Area = 1.460 ac, 78.77% Impervious, Inflow Depth > 1.19" for 1-YEAR event
Inflow = 3.38 cfs @ 11.92 hrs, Volume= 0.145 af
Outflow = 0.39 cfs @ 12.20 hrs, Volume= 0.141 af, Atten= 88%, Lag= 16.5 min
Primary = 0.39 cfs @ 12.20 hrs, Volume= 0.141 af
Routed to Link 6L : POST-DEV

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 582.85' @ 12.20 hrs Surf.Area= 3,598 sf Storage= 2,938 cf

Plug-Flow detention time= 92.7 min calculated for 0.141 af (97% of inflow)
Center-of-Mass det. time= 80.4 min (843.8 - 763.4)

Volume	Invert	Avail.Storage	Storage Description
#1	581.80'	13,563 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

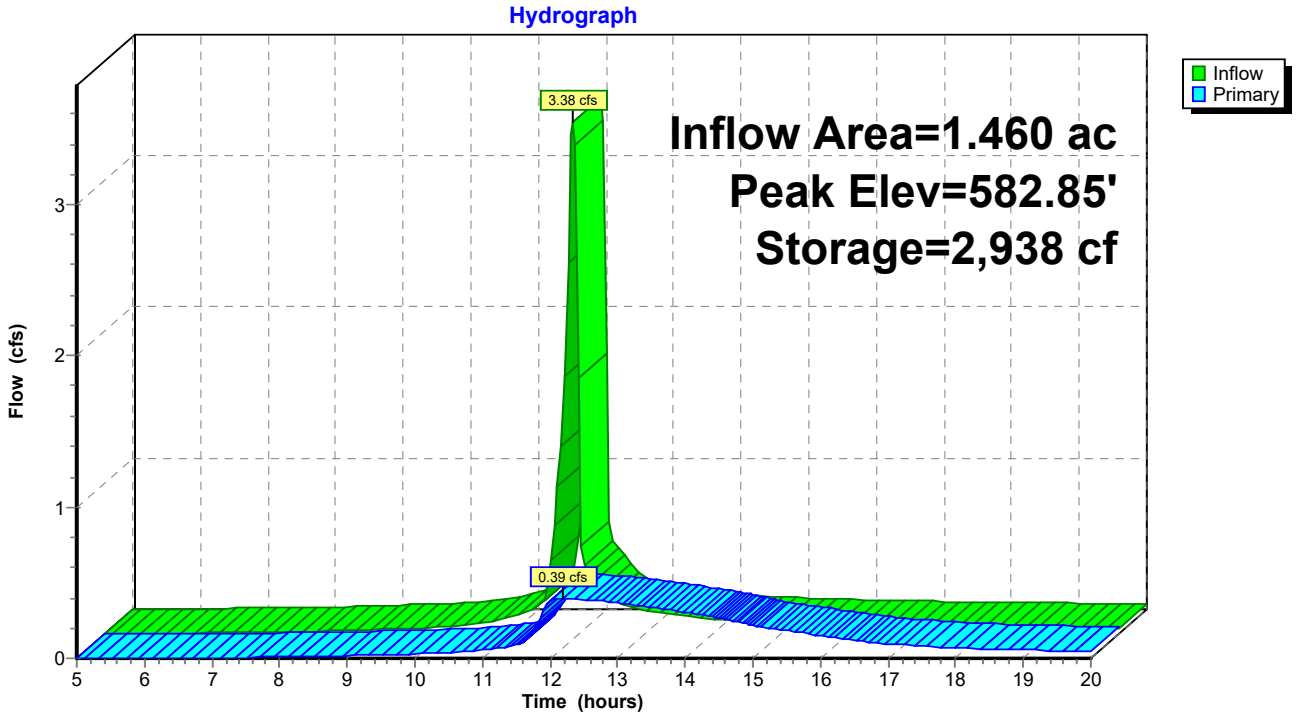
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
581.80	300	0	0
582.00	2,630	293	293
583.00	3,770	3,200	3,493
584.00	5,010	4,390	7,883
585.00	6,350	5,680	13,563

Device	Routing	Invert	Outlet Devices
#1	Primary	581.65'	**12.0" Round Culvert** L= 65.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.65' / 581.30' S= 0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#2	Device 1	581.80'	**4.0" Round Culvert** L= 4.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.80' / 581.75' S= 0.0125 '/' Cc= 0.900 n= 0.013, Flow Area= 0.09 sf
#3	Device 1	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

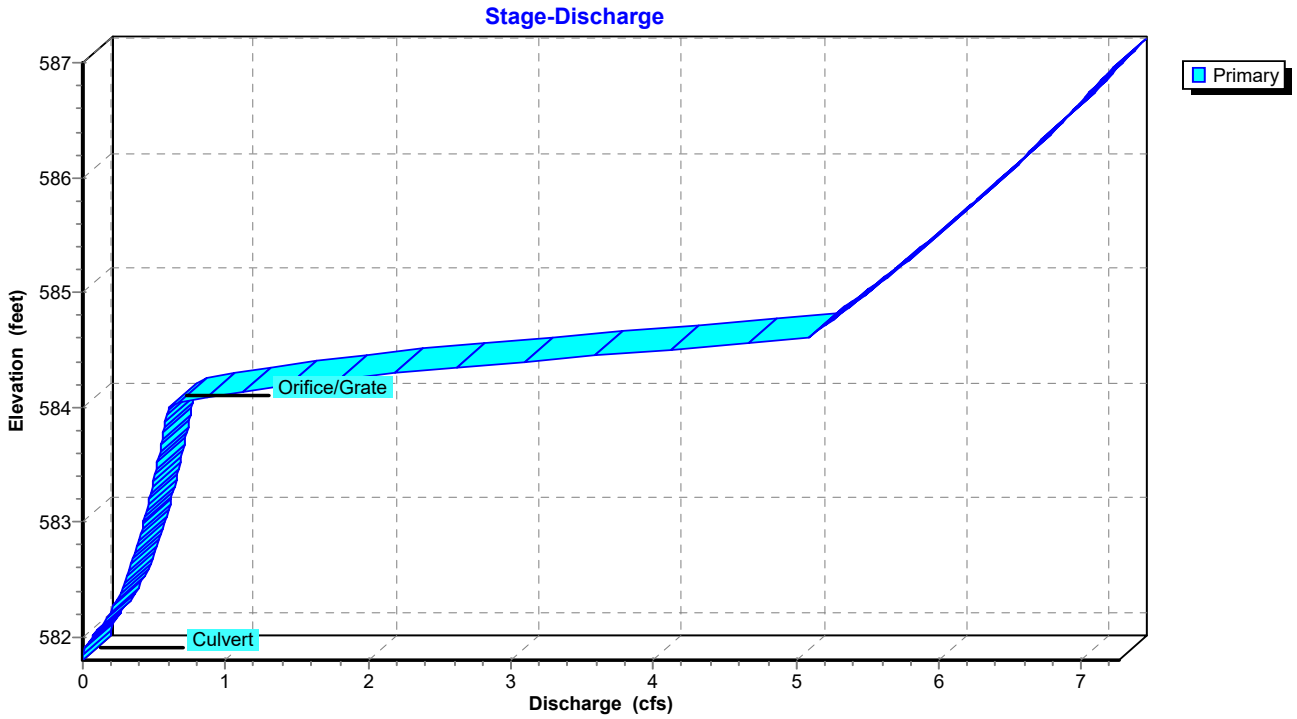
Primary OutFlow Max=0.39 cfs @ 12.20 hrs HW=582.85' (Free Discharge)
└**1=Culvert** (Passes 0.39 cfs of 2.73 cfs potential flow)
  ├**2=Culvert** (Inlet Controls 0.39 cfs @ 4.52 fps)
  └**3=Orifice/Grate** (Controls 0.00 cfs)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Pond 4P: DETENTION BASIN



Pond 4P: DETENTION BASIN



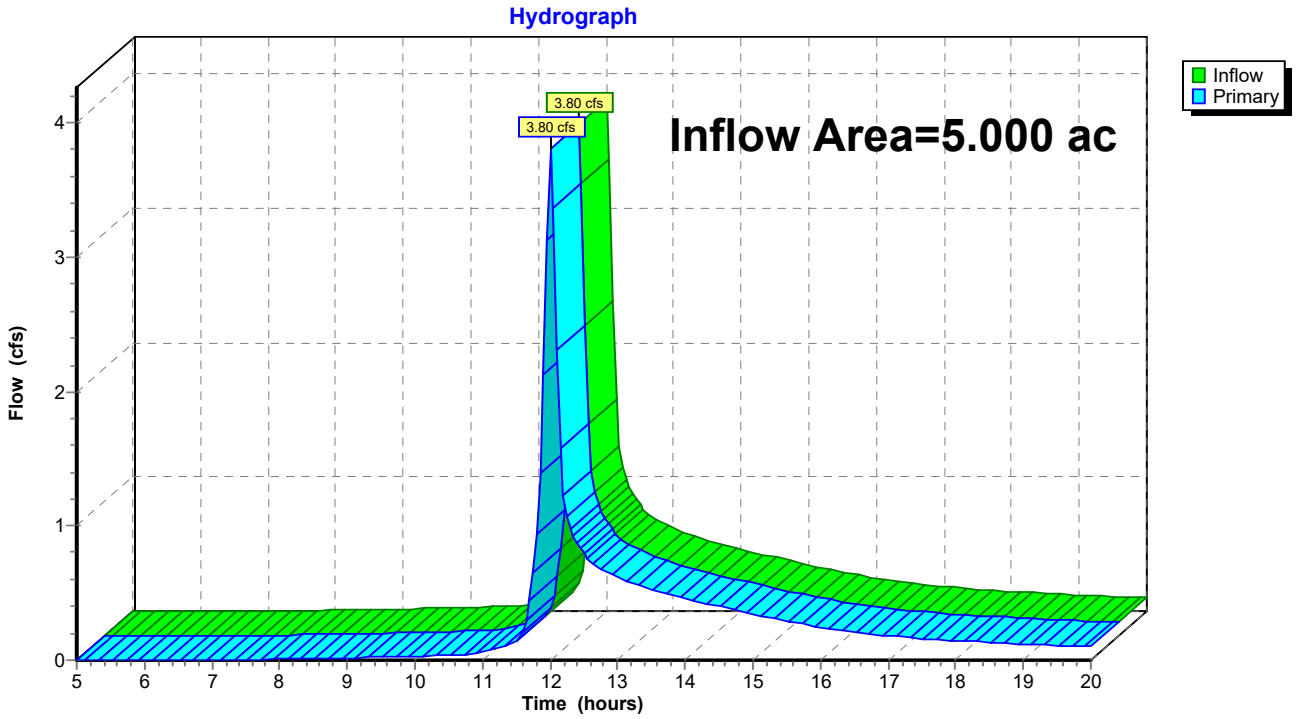
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Link 6L: POST-DEV

Inflow Area = 5.000 ac, 26.00% Impervious, Inflow Depth > 0.73" for 1-YEAR event
Inflow = 3.80 cfs @ 12.01 hrs, Volume= 0.302 af
Primary = 3.80 cfs @ 12.01 hrs, Volume= 0.302 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 6L: POST-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment3S: Runoff Area=1.460 ac 78.77% Impervious Runoff Depth>2.48"
Flow Length=288' Tc=2.2 min CN=94 Runoff=6.67 cfs 0.302 af

Subcatchment5S: Runoff Area=3.540 ac 4.24% Impervious Runoff Depth>1.56"
Flow Length=225' Tc=8.3 min CN=83 Runoff=9.69 cfs 0.460 af

Pond 4P: DETENTION BASIN Peak Elev=583.72' Storage=6,517 cf Inflow=6.67 cfs 0.302 af
Outflow=0.56 cfs 0.290 af

Link 6L: POST-DEV Inflow=10.22 cfs 0.749 af
Primary=10.22 cfs 0.749 af

Total Runoff Area = 5.000 ac Runoff Volume = 0.761 af Average Runoff Depth = 1.83"
74.00% Pervious = 3.700 ac 26.00% Impervious = 1.300 ac

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 3S: POST-DEV-CONTROLLED

[49] Hint: Tc<2dt may require smaller dt
[47] Hint: Peak is 296% of capacity of segment #2

Runoff = 6.67 cfs @ 11.92 hrs, Volume= 0.302 af, Depth> 2.48"
Routed to Pond 4P : DETENTION BASIN

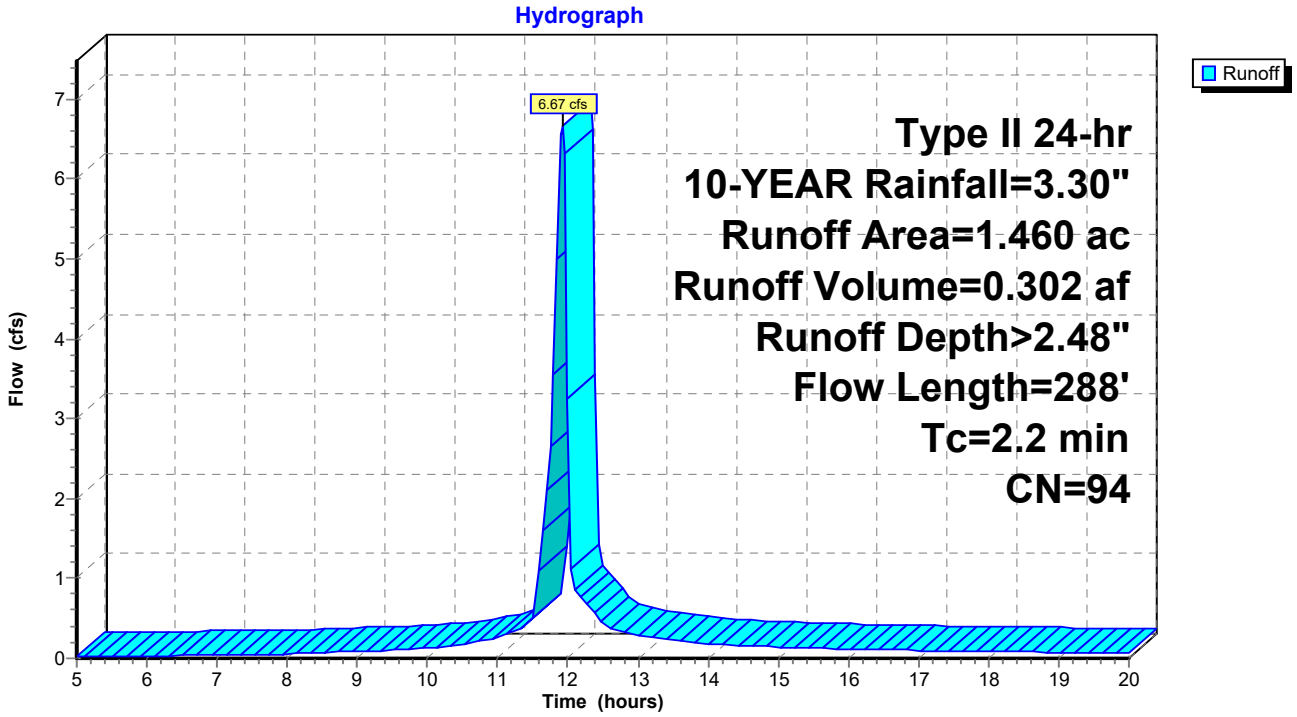
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-YEAR Rainfall=3.30"

Area (ac)	CN	Description
0.740	98	Paved parking, HSG D
0.410	98	Roofs, HSG D
0.310	80	>75% Grass cover, Good, HSG D
1.460	94	Weighted Average
0.310		21.23% Pervious Area
1.150		78.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.4	238	0.0040	2.87	2.25	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
2.2	288	Total			

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Subcatchment 3S: POST-DEV-CONTROLLED



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Summary for Subcatchment 5S: POST-DEV-UNCONTROLLED

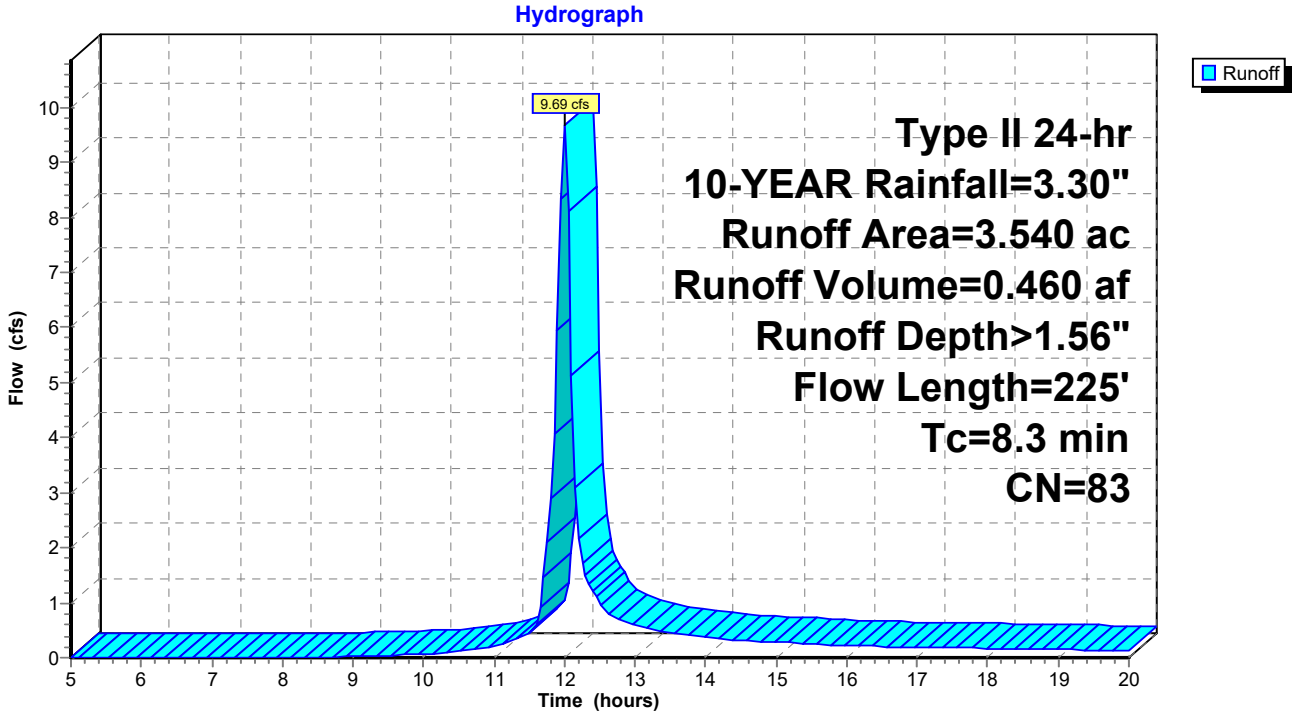
Runoff = 9.69 cfs @ 12.00 hrs, Volume= 0.460 af, Depth> 1.56"
Routed to Link 6L : POST-DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-YEAR Rainfall=3.30"

Area (ac)	CN	Description
2.810	83	Woods, Poor, HSG D
0.580	80	>75% Grass cover, Good, HSG D
0.150	98	Paved parking, HSG D
3.540	83	Weighted Average
3.390		95.76% Pervious Area
0.150		4.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	50	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
8.3	225	Total			

Subcatchment 5S: POST-DEV-UNCONTROLLED



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Pond 4P: DETENTION BASIN

[82] Warning: Early inflow requires earlier time span

Inflow Area = 1.460 ac, 78.77% Impervious, Inflow Depth > 2.48" for 10-YEAR event
Inflow = 6.67 cfs @ 11.92 hrs, Volume= 0.302 af
Outflow = 0.56 cfs @ 12.39 hrs, Volume= 0.290 af, Atten= 92%, Lag= 28.2 min
Primary = 0.56 cfs @ 12.39 hrs, Volume= 0.290 af
Routed to Link 6L : POST-DEV

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 583.72' @ 12.39 hrs Surf.Area= 4,660 sf Storage= 6,517 cf

Plug-Flow detention time= 132.6 min calculated for 0.290 af (96% of inflow)
Center-of-Mass det. time= 116.8 min (864.3 - 747.5)

Volume	Invert	Avail.Storage	Storage Description
#1	581.80'	13,563 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
581.80	300	0	0
582.00	2,630	293	293
583.00	3,770	3,200	3,493
584.00	5,010	4,390	7,883
585.00	6,350	5,680	13,563

Device	Routing	Invert	Outlet Devices
#1	Primary	581.65'	**12.0" Round Culvert** L= 65.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.65' / 581.30' S= 0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#2	Device 1	581.80'	**4.0" Round Culvert** L= 4.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.80' / 581.75' S= 0.0125 '/' Cc= 0.900 n= 0.013, Flow Area= 0.09 sf
#3	Device 1	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 12.39 hrs HW=583.72' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 3.99 cfs potential flow)
└**2=Culvert** (Inlet Controls 0.56 cfs @ 6.37 fps)
└**3=Orifice/Grate** (Controls 0.00 cfs)

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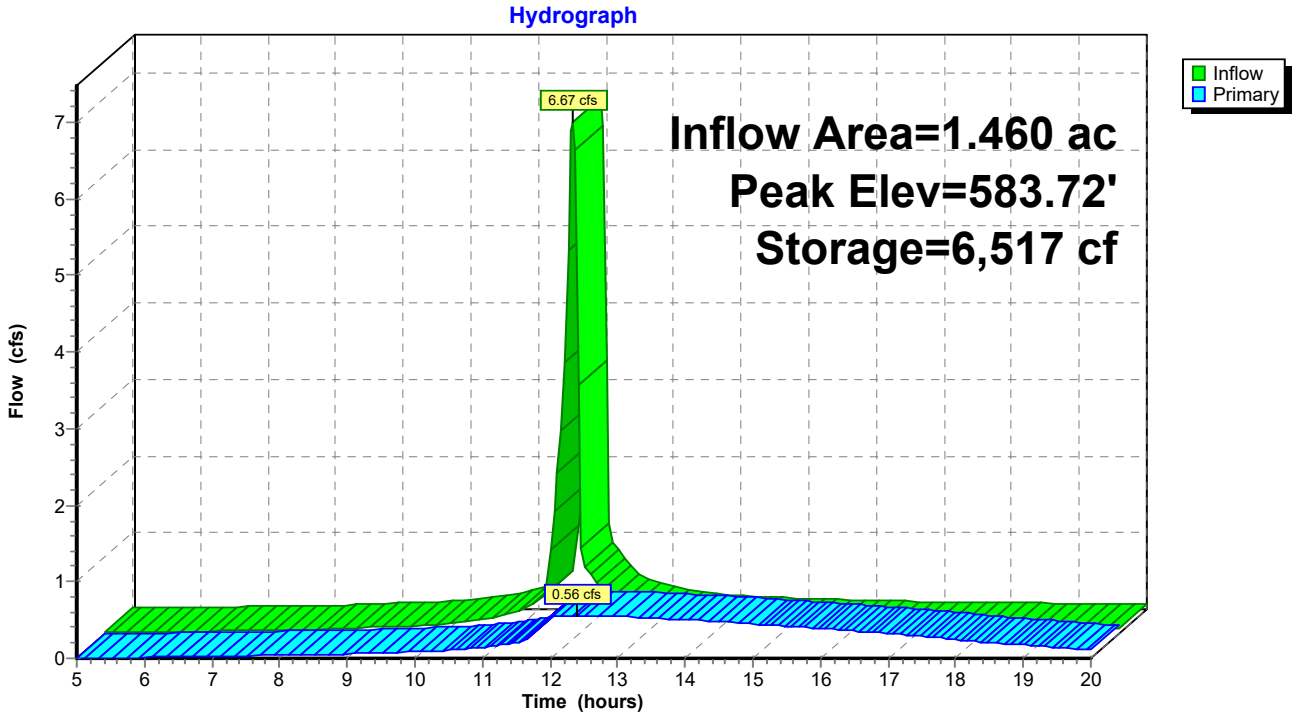
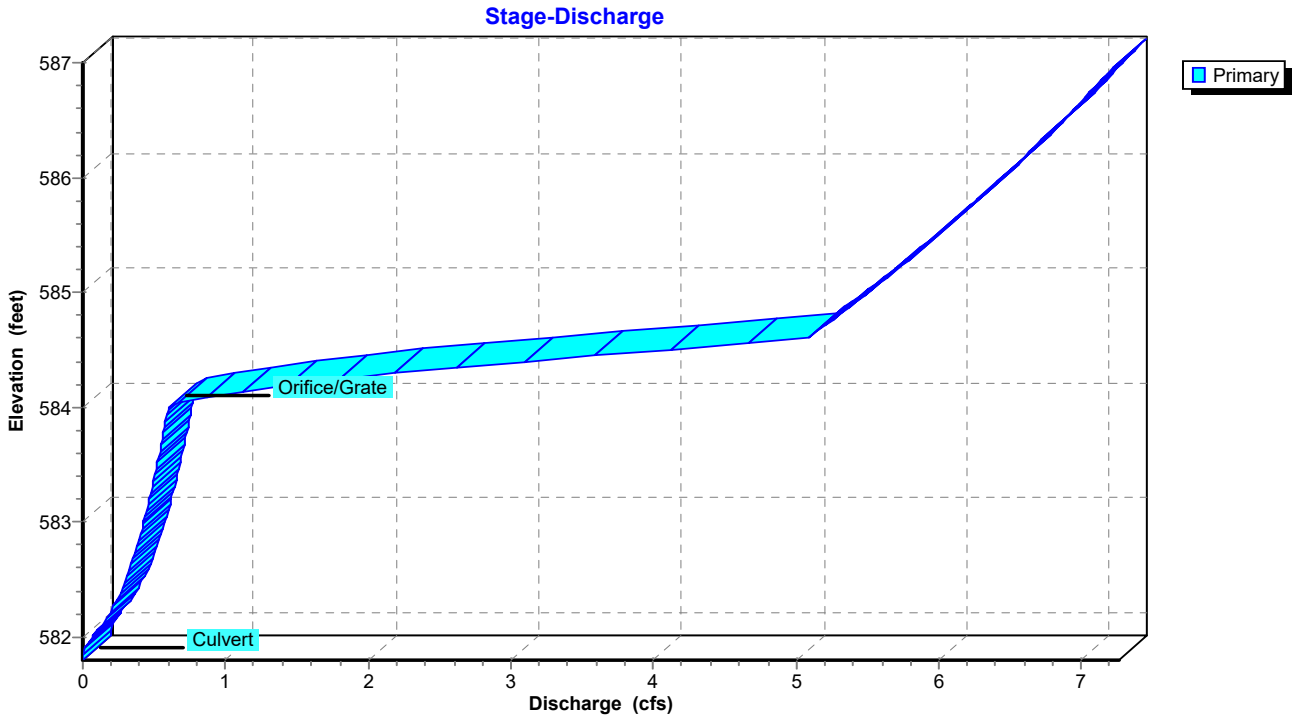
Pond 4P: DETENTION BASIN



Pond 4P: DETENTION BASIN



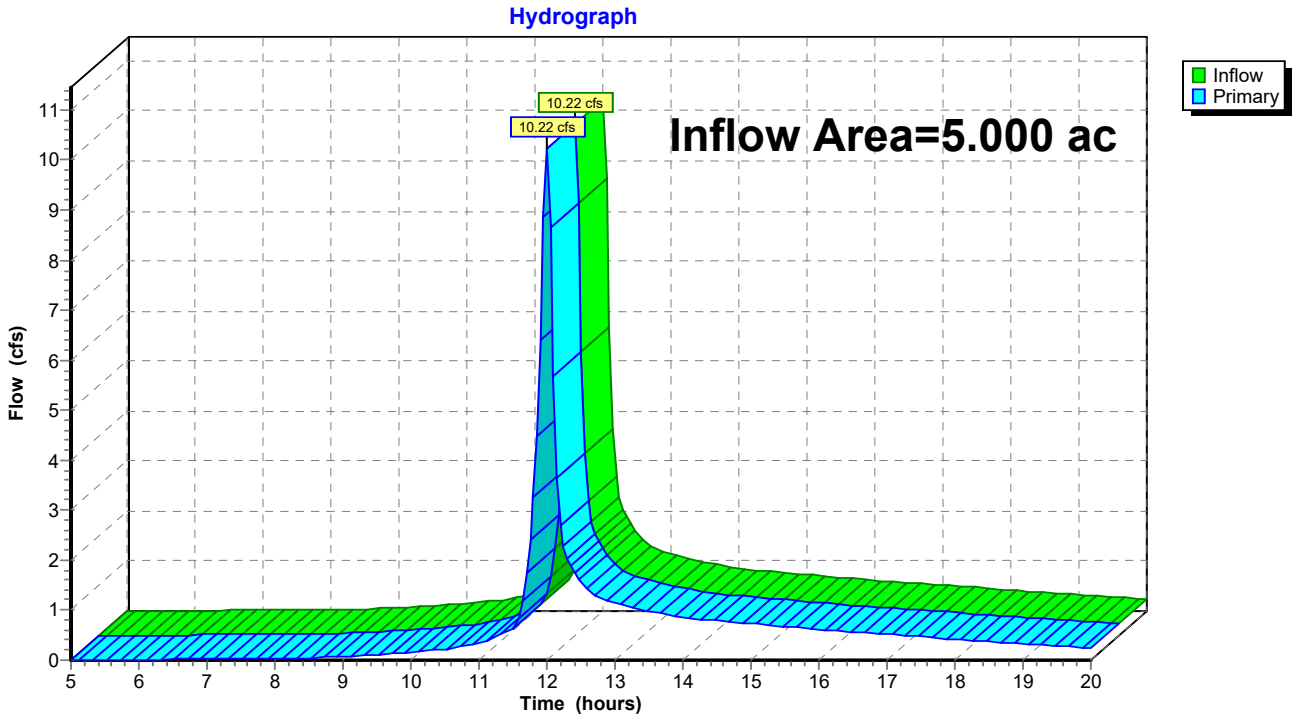
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Link 6L: POST-DEV

Inflow Area = 5.000 ac, 26.00% Impervious, Inflow Depth > 1.80" for 10-YEAR event
Inflow = 10.22 cfs @ 12.00 hrs, Volume= 0.749 af
Primary = 10.22 cfs @ 12.00 hrs, Volume= 0.749 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 6L: POST-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment3S: Runoff Area=1.460 ac 78.77% Impervious Runoff Depth>3.08"
Flow Length=288' Tc=2.2 min CN=94 Runoff=8.18 cfs 0.375 af

Subcatchment5S: Runoff Area=3.540 ac 4.24% Impervious Runoff Depth>2.08"
Flow Length=225' Tc=8.3 min CN=83 Runoff=12.82 cfs 0.615 af

Pond 4P: DETENTION BASIN Peak Elev=584.05' Storage=8,159 cf Inflow=8.18 cfs 0.375 af
Outflow=0.74 cfs 0.355 af

Link 6L: POST-DEV Inflow=13.41 cfs 0.970 af
Primary=13.41 cfs 0.970 af

Total Runoff Area = 5.000 ac Runoff Volume = 0.989 af Average Runoff Depth = 2.37"
74.00% Pervious = 3.700 ac 26.00% Impervious = 1.300 ac

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 3S: POST-DEV-CONTROLLED

[49] Hint: Tc<2dt may require smaller dt
[47] Hint: Peak is 363% of capacity of segment #2

Runoff = 8.18 cfs @ 11.92 hrs, Volume= 0.375 af, Depth> 3.08"
Routed to Pond 4P : DETENTION BASIN

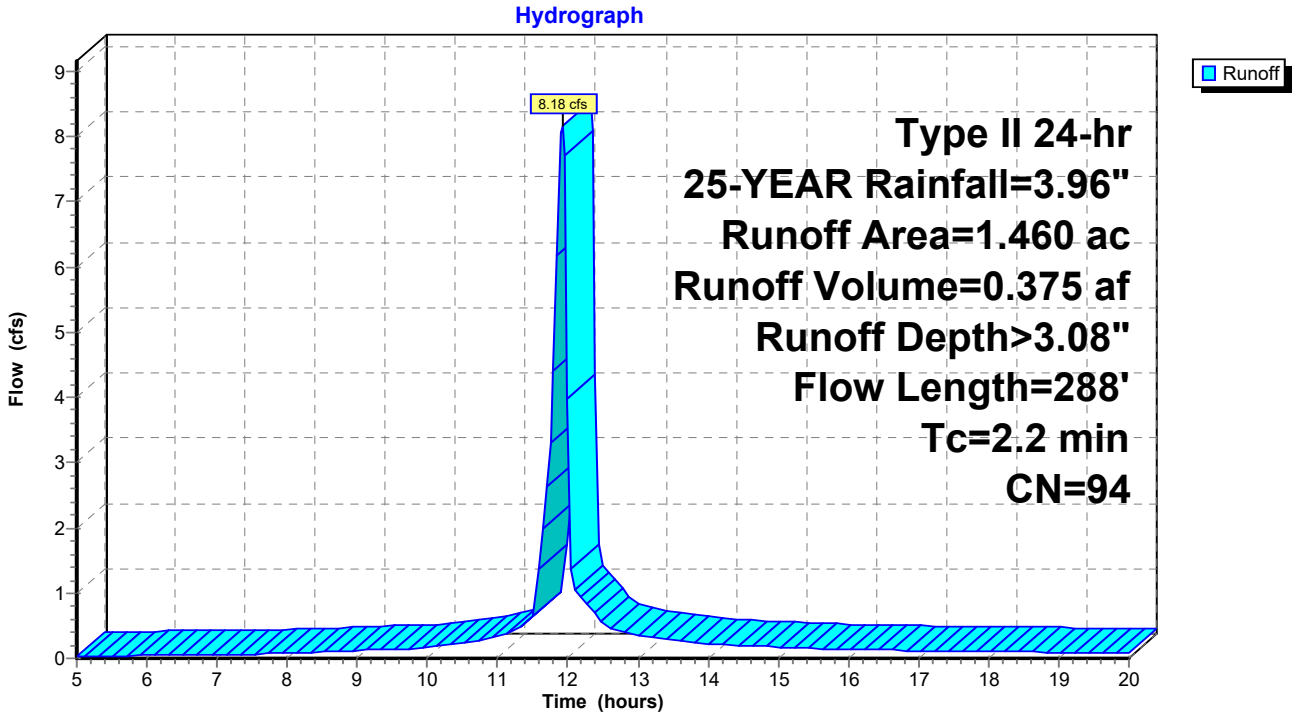
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-YEAR Rainfall=3.96"

Area (ac)	CN	Description
0.740	98	Paved parking, HSG D
0.410	98	Roofs, HSG D
0.310	80	>75% Grass cover, Good, HSG D
1.460	94	Weighted Average
0.310		21.23% Pervious Area
1.150		78.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.4	238	0.0040	2.87	2.25	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
2.2	288	Total			

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Subcatchment 3S: POST-DEV-CONTROLLED



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 5S: POST-DEV-UNCONTROLLED

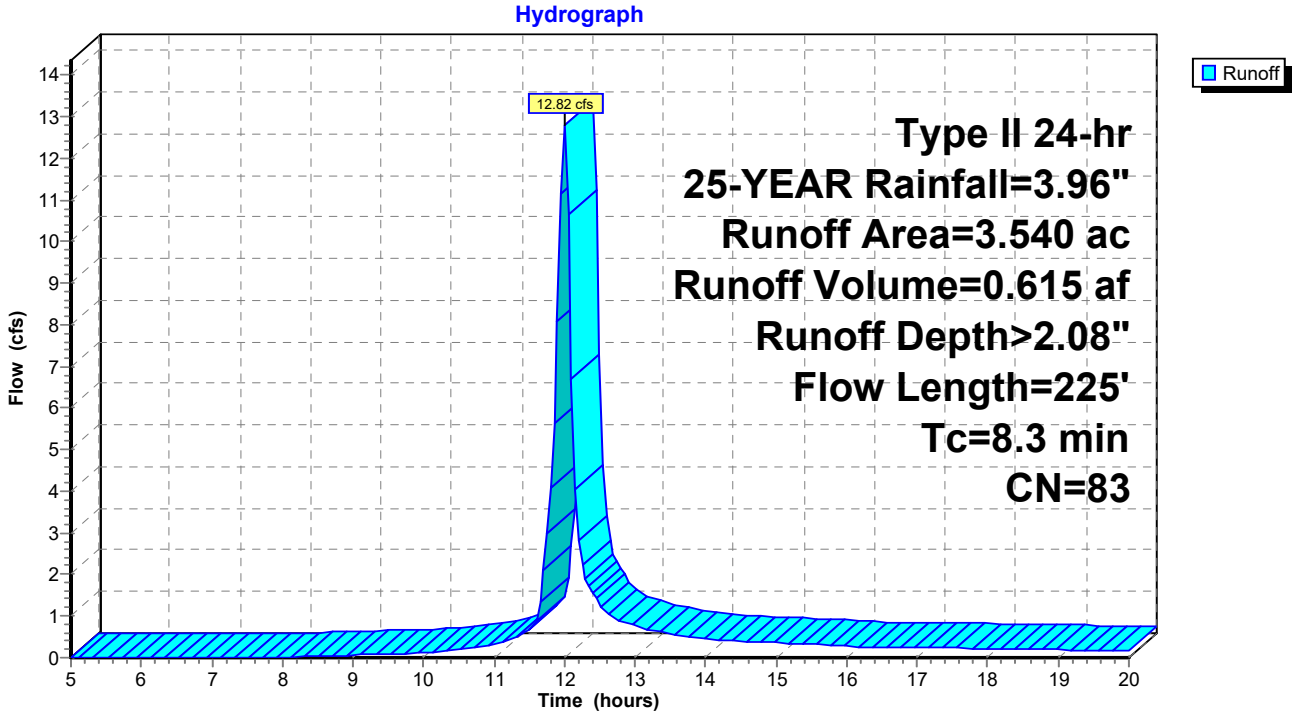
Runoff = 12.82 cfs @ 12.00 hrs, Volume= 0.615 af, Depth> 2.08"
Routed to Link 6L : POST-DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-YEAR Rainfall=3.96"

Area (ac)	CN	Description
2.810	83	Woods, Poor, HSG D
0.580	80	>75% Grass cover, Good, HSG D
0.150	98	Paved parking, HSG D
3.540	83	Weighted Average
3.390		95.76% Pervious Area
0.150		4.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	50	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
8.3	225	Total			

Subcatchment 5S: POST-DEV-UNCONTROLLED



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Pond 4P: DETENTION BASIN

[82] Warning: Early inflow requires earlier time span

Inflow Area = 1.460 ac, 78.77% Impervious, Inflow Depth > 3.08" for 25-YEAR event
Inflow = 8.18 cfs @ 11.92 hrs, Volume= 0.375 af
Outflow = 0.74 cfs @ 12.34 hrs, Volume= 0.355 af, Atten= 91%, Lag= 25.3 min
Primary = 0.74 cfs @ 12.34 hrs, Volume= 0.355 af
Routed to Link 6L : POST-DEV

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 584.05' @ 12.34 hrs Surf.Area= 5,083 sf Storage= 8,159 cf

Plug-Flow detention time= 146.8 min calculated for 0.355 af (95% of inflow)
Center-of-Mass det. time= 125.8 min (869.4 - 743.5)

Volume	Invert	Avail.Storage	Storage Description
#1	581.80'	13,563 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

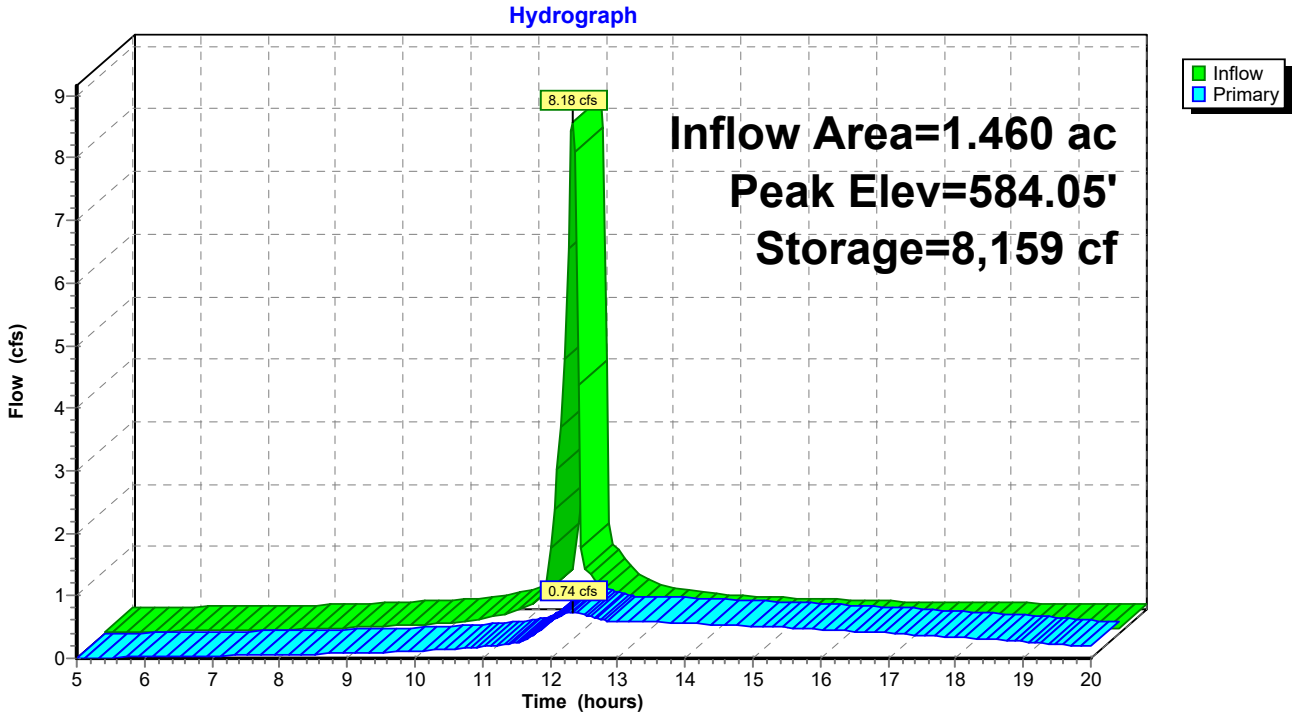
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
581.80	300	0	0
582.00	2,630	293	293
583.00	3,770	3,200	3,493
584.00	5,010	4,390	7,883
585.00	6,350	5,680	13,563

Device	Routing	Invert	Outlet Devices
#1	Primary	581.65'	**12.0" Round Culvert** L= 65.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.65' / 581.30' S= 0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#2	Device 1	581.80'	**4.0" Round Culvert** L= 4.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.80' / 581.75' S= 0.0125 '/' Cc= 0.900 n= 0.013, Flow Area= 0.09 sf
#3	Device 1	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

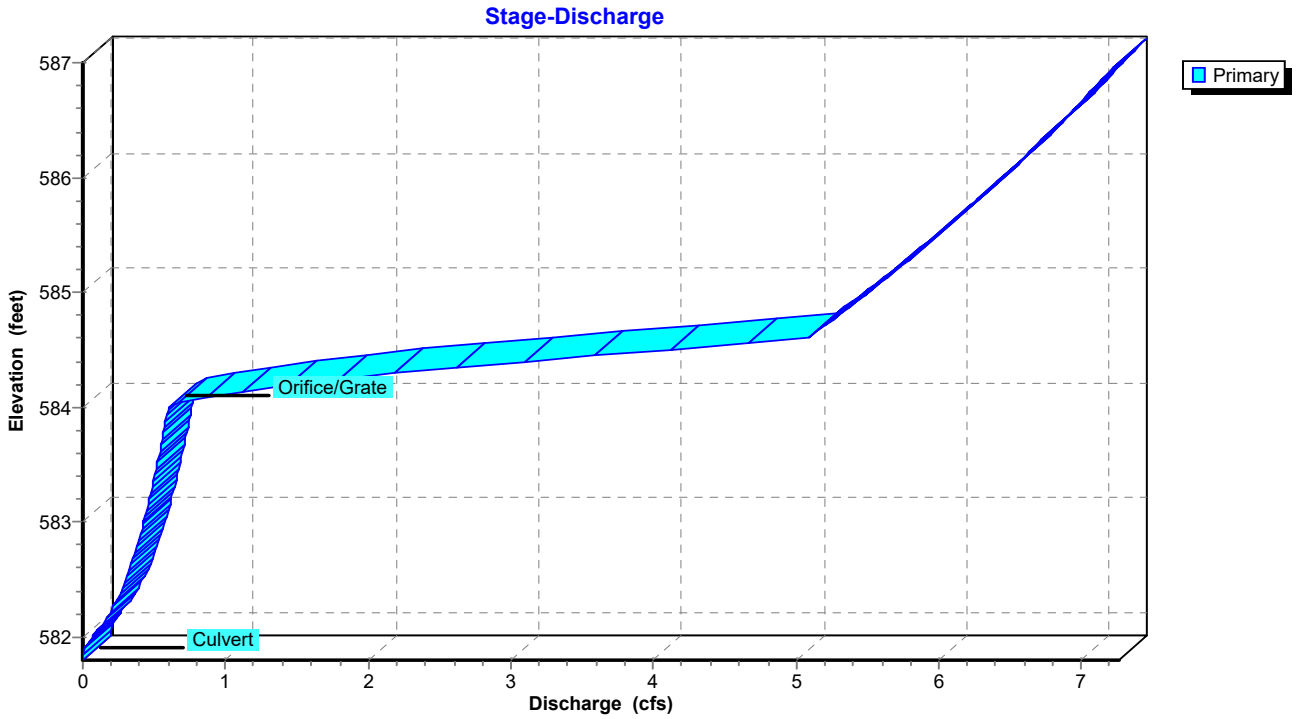
Primary OutFlow Max=0.73 cfs @ 12.34 hrs HW=584.05' (Free Discharge)
└**1=Culvert** (Passes 0.73 cfs of 4.44 cfs potential flow)
└**2=Culvert** (Inlet Controls 0.61 cfs @ 6.96 fps)
└**3=Orifice/Grate** (Orifice Controls 0.12 cfs @ 0.75 fps)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Pond 4P: DETENTION BASIN



Pond 4P: DETENTION BASIN



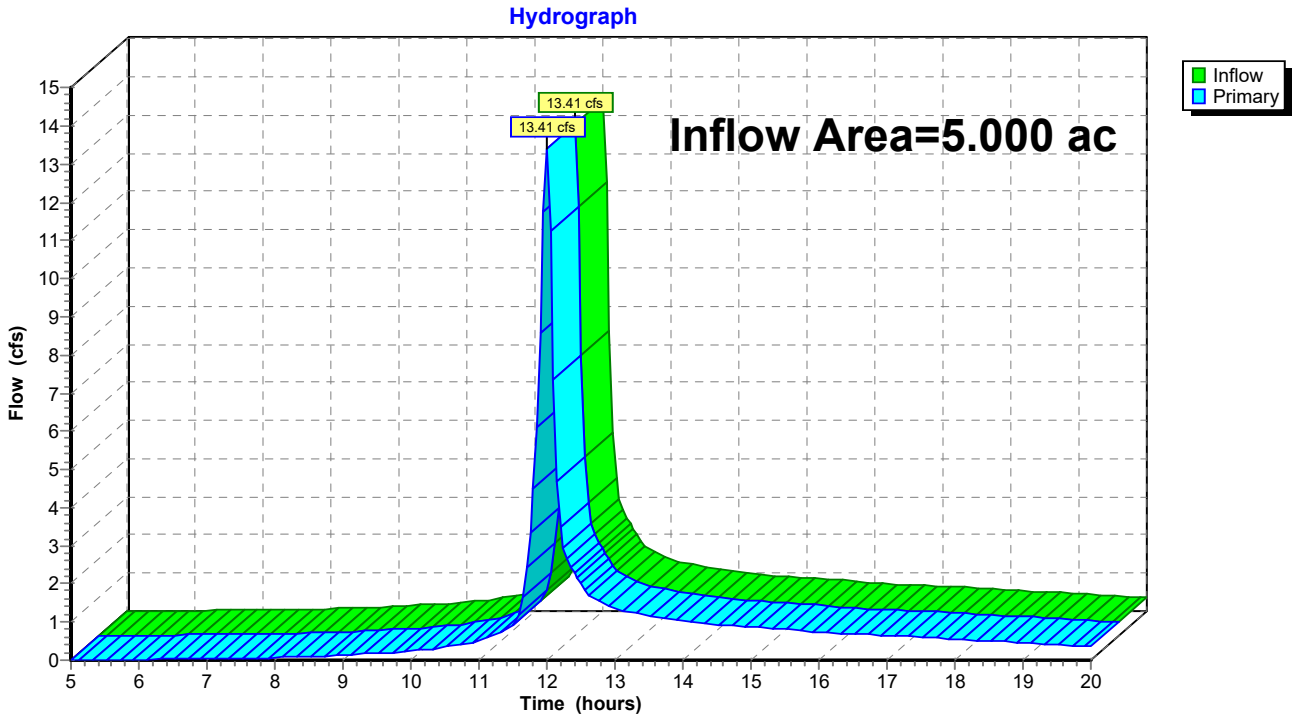
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Link 6L: POST-DEV

Inflow Area = 5.000 ac, 26.00% Impervious, Inflow Depth > 2.33" for 25-YEAR event
Inflow = 13.41 cfs @ 12.00 hrs, Volume= 0.970 af
Primary = 13.41 cfs @ 12.00 hrs, Volume= 0.970 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 6L: POST-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment3S: Runoff Area=1.460 ac 78.77% Impervious Runoff Depth>3.54"
Flow Length=288' Tc=2.2 min CN=94 Runoff=9.31 cfs 0.430 af

Subcatchment5S: Runoff Area=3.540 ac 4.24% Impervious Runoff Depth>2.50"
Flow Length=225' Tc=8.3 min CN=83 Runoff=15.23 cfs 0.736 af

Pond 4P: DETENTION BASIN Peak Elev=584.21' Storage=8,979 cf Inflow=9.31 cfs 0.430 af
Outflow=1.57 cfs 0.406 af

Link 6L: POST-DEV Inflow=16.40 cfs 1.142 af
Primary=16.40 cfs 1.142 af

Total Runoff Area = 5.000 ac Runoff Volume = 1.167 af Average Runoff Depth = 2.80"
74.00% Pervious = 3.700 ac 26.00% Impervious = 1.300 ac

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 3S: POST-DEV-CONTROLLED

[49] Hint: Tc<2dt may require smaller dt
[47] Hint: Peak is 413% of capacity of segment #2

Runoff = 9.31 cfs @ 11.92 hrs, Volume= 0.430 af, Depth> 3.54"
Routed to Pond 4P : DETENTION BASIN

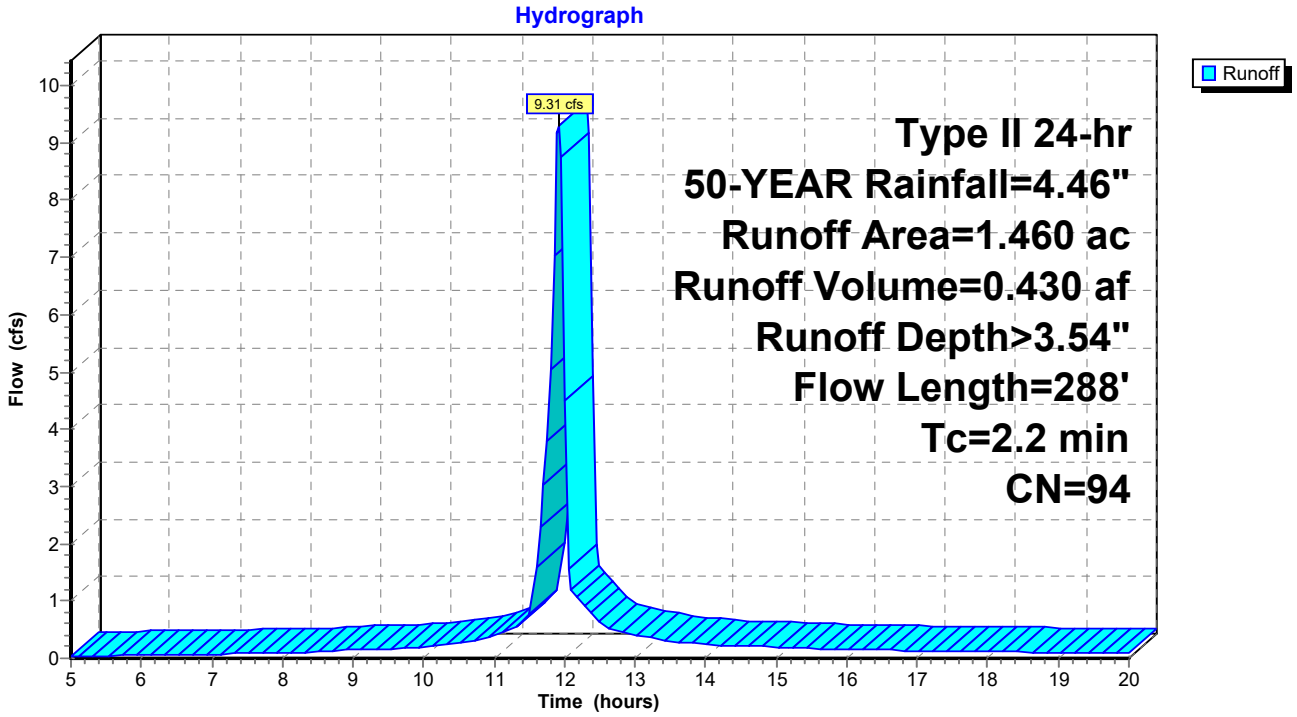
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 50-YEAR Rainfall=4.46"

Area (ac)	CN	Description
0.740	98	Paved parking, HSG D
0.410	98	Roofs, HSG D
0.310	80	>75% Grass cover, Good, HSG D
1.460	94	Weighted Average
0.310		21.23% Pervious Area
1.150		78.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.4	238	0.0040	2.87	2.25	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
2.2	288	Total			

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Subcatchment 3S: POST-DEV-CONTROLLED



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 5S: POST-DEV-UNCONTROLLED

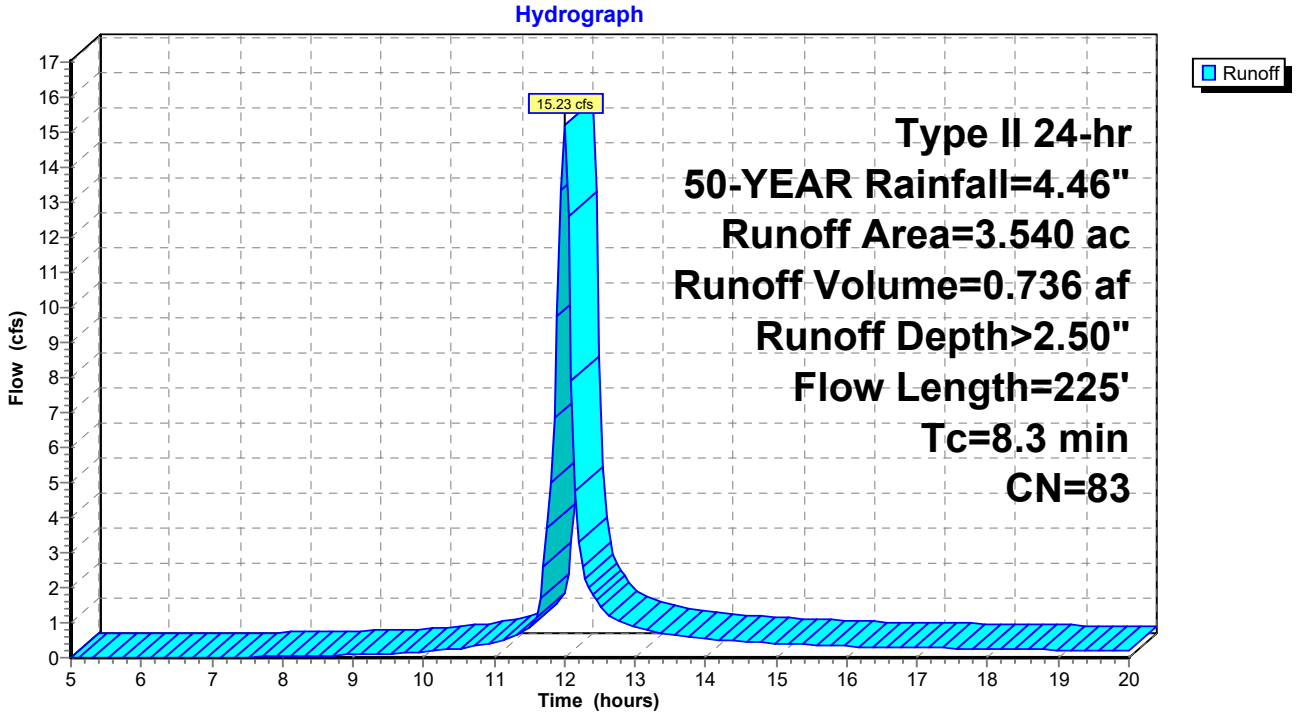
Runoff = 15.23 cfs @ 12.00 hrs, Volume= 0.736 af, Depth> 2.50"
Routed to Link 6L : POST-DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 50-YEAR Rainfall=4.46"

Area (ac)	CN	Description
2.810	83	Woods, Poor, HSG D
0.580	80	>75% Grass cover, Good, HSG D
0.150	98	Paved parking, HSG D
3.540	83	Weighted Average
3.390		95.76% Pervious Area
0.150		4.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	50	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
8.3	225	Total			

Subcatchment 5S: POST-DEV-UNCONTROLLED



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Pond 4P: DETENTION BASIN

[82] Warning: Early inflow requires earlier time span

Inflow Area = 1.460 ac, 78.77% Impervious, Inflow Depth > 3.54" for 50-YEAR event
Inflow = 9.31 cfs @ 11.92 hrs, Volume= 0.430 af
Outflow = 1.57 cfs @ 12.07 hrs, Volume= 0.406 af, Atten= 83%, Lag= 9.2 min
Primary = 1.57 cfs @ 12.07 hrs, Volume= 0.406 af
Routed to Link 6L : POST-DEV

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 584.21' @ 12.07 hrs Surf.Area= 5,295 sf Storage= 8,979 cf

Plug-Flow detention time= 138.6 min calculated for 0.405 af (94% of inflow)
Center-of-Mass det. time= 116.4 min (857.7 - 741.2)

Volume	Invert	Avail.Storage	Storage Description
#1	581.80'	13,563 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

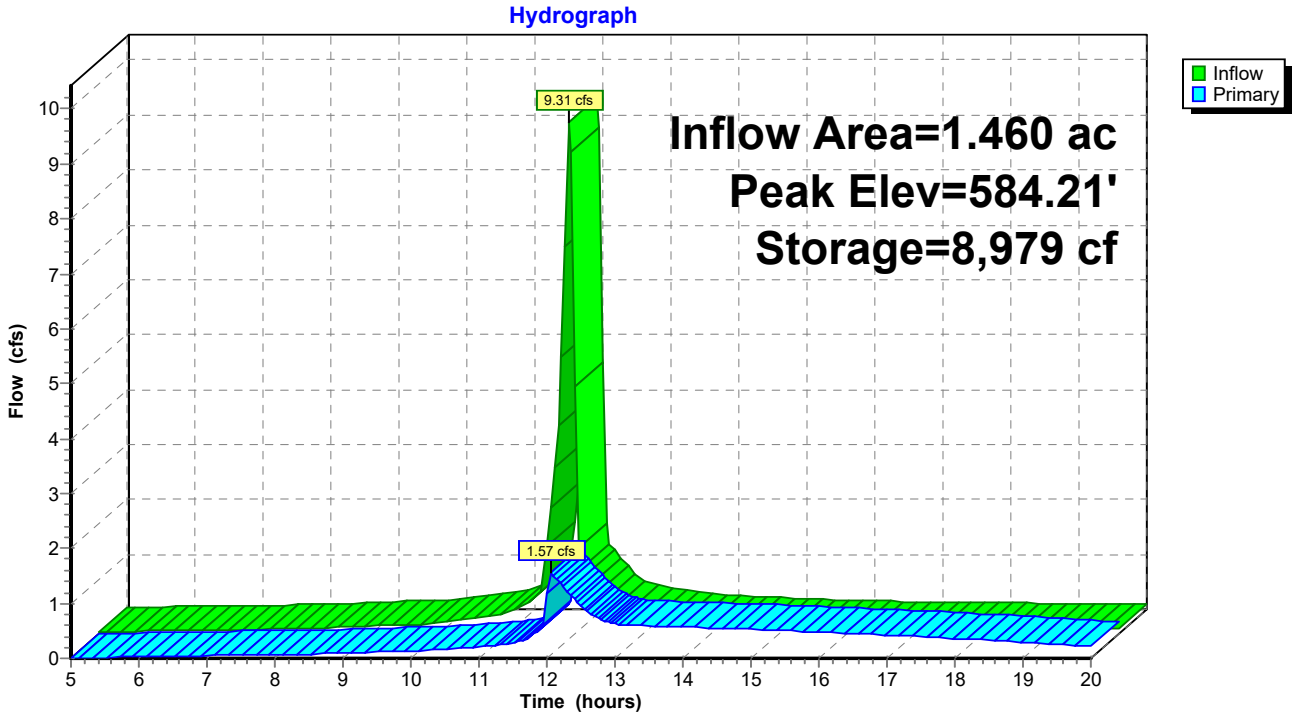
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
581.80	300	0	0
582.00	2,630	293	293
583.00	3,770	3,200	3,493
584.00	5,010	4,390	7,883
585.00	6,350	5,680	13,563

Device	Routing	Invert	Outlet Devices
#1	Primary	581.65'	**12.0" Round Culvert** L= 65.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.65' / 581.30' S= 0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#2	Device 1	581.80'	**4.0" Round Culvert** L= 4.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.80' / 581.75' S= 0.0125 '/' Cc= 0.900 n= 0.013, Flow Area= 0.09 sf
#3	Device 1	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

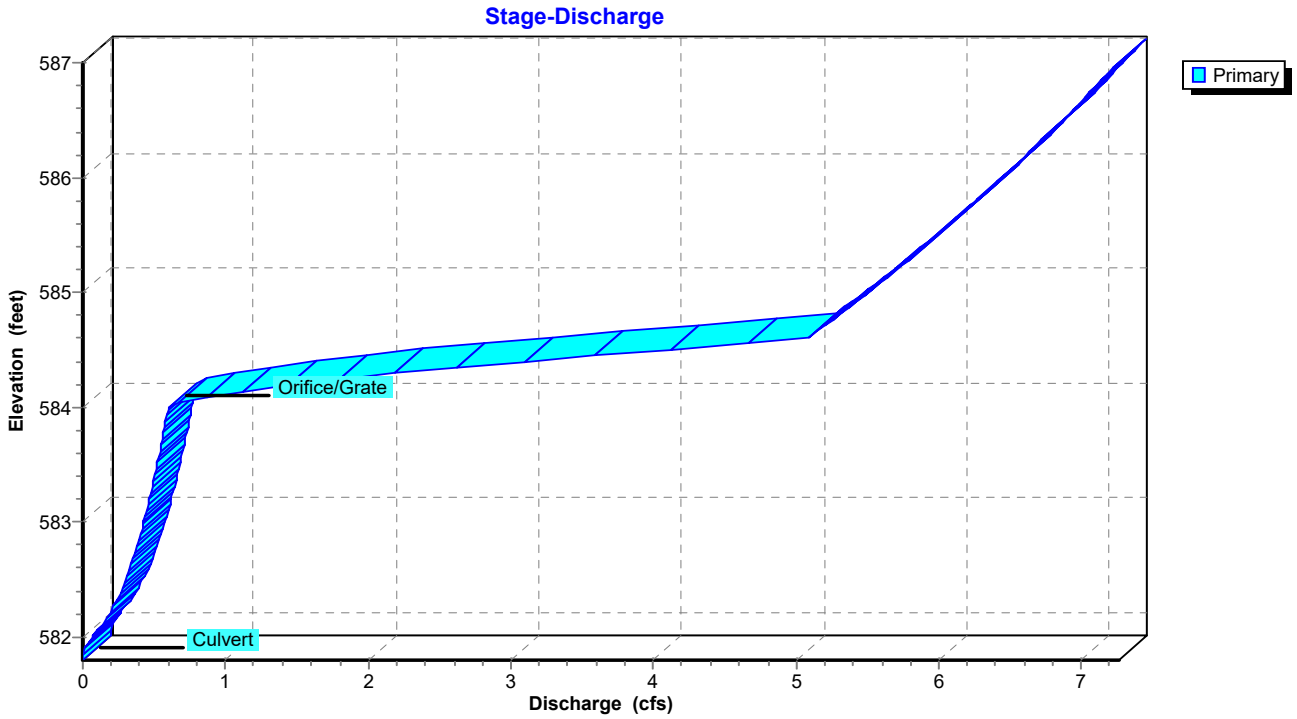
Primary OutFlow Max=1.52 cfs @ 12.07 hrs HW=584.21' (Free Discharge)
└**1=Culvert** (Passes 1.52 cfs of 4.62 cfs potential flow)
└**2=Culvert** (Inlet Controls 0.63 cfs @ 7.20 fps)
└**3=Orifice/Grate** (Orifice Controls 0.89 cfs @ 1.45 fps)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Pond 4P: DETENTION BASIN



Pond 4P: DETENTION BASIN



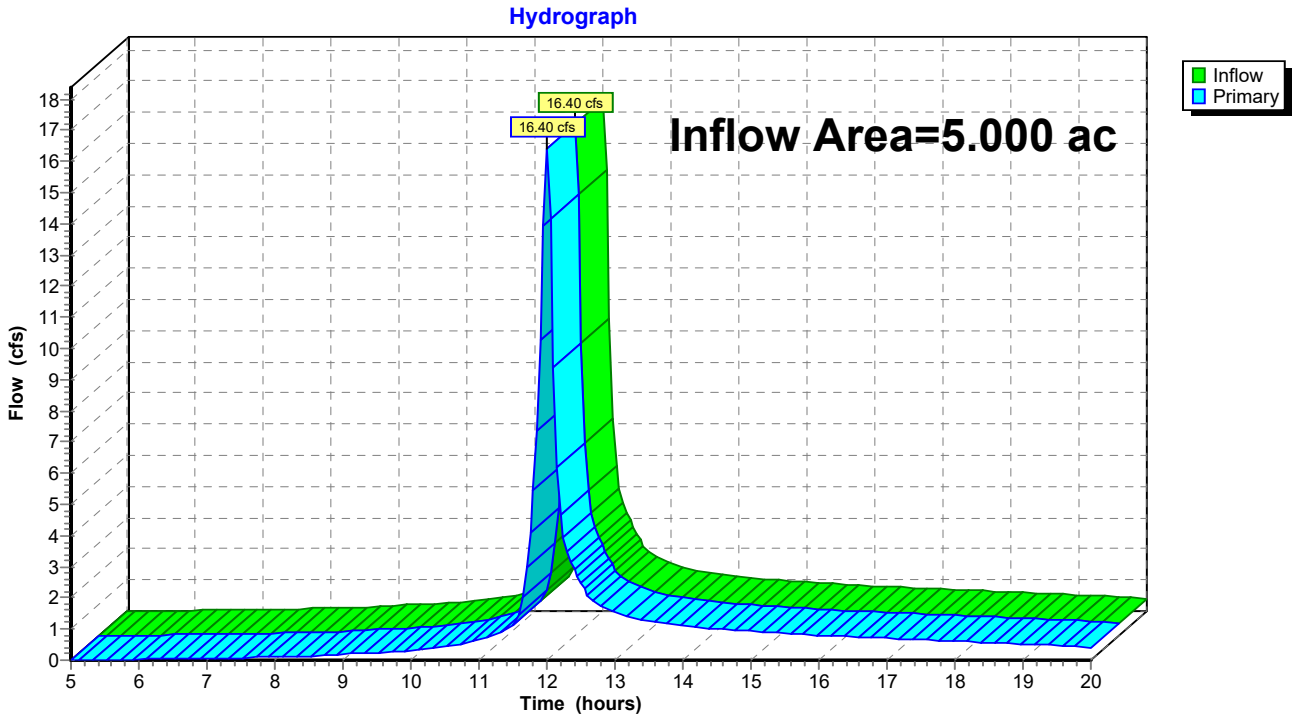
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Link 6L: POST-DEV

Inflow Area = 5.000 ac, 26.00% Impervious, Inflow Depth > 2.74" for 50-YEAR event
Inflow = 16.40 cfs @ 12.00 hrs, Volume= 1.142 af
Primary = 16.40 cfs @ 12.00 hrs, Volume= 1.142 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 6L: POST-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment3S: Runoff Area=1.460 ac 78.77% Impervious Runoff Depth>4.02"
Flow Length=288' Tc=2.2 min CN=94 Runoff=10.51 cfs 0.489 af

Subcatchment5S: Runoff Area=3.540 ac 4.24% Impervious Runoff Depth>2.94"
Flow Length=225' Tc=8.3 min CN=83 Runoff=17.82 cfs 0.868 af

Pond 4P: DETENTION BASIN Peak Elev=584.37' Storage=9,815 cf Inflow=10.51 cfs 0.489 af
Outflow=2.80 cfs 0.460 af

Link 6L: POST-DEV Inflow=20.39 cfs 1.329 af
Primary=20.39 cfs 1.329 af

Total Runoff Area = 5.000 ac Runoff Volume = 1.357 af Average Runoff Depth = 3.26"
74.00% Pervious = 3.700 ac 26.00% Impervious = 1.300 ac

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 3S: POST-DEV-CONTROLLED

[49] Hint: Tc<2dt may require smaller dt
[47] Hint: Peak is 466% of capacity of segment #2

Runoff = 10.51 cfs @ 11.92 hrs, Volume= 0.489 af, Depth> 4.02"
Routed to Pond 4P : DETENTION BASIN

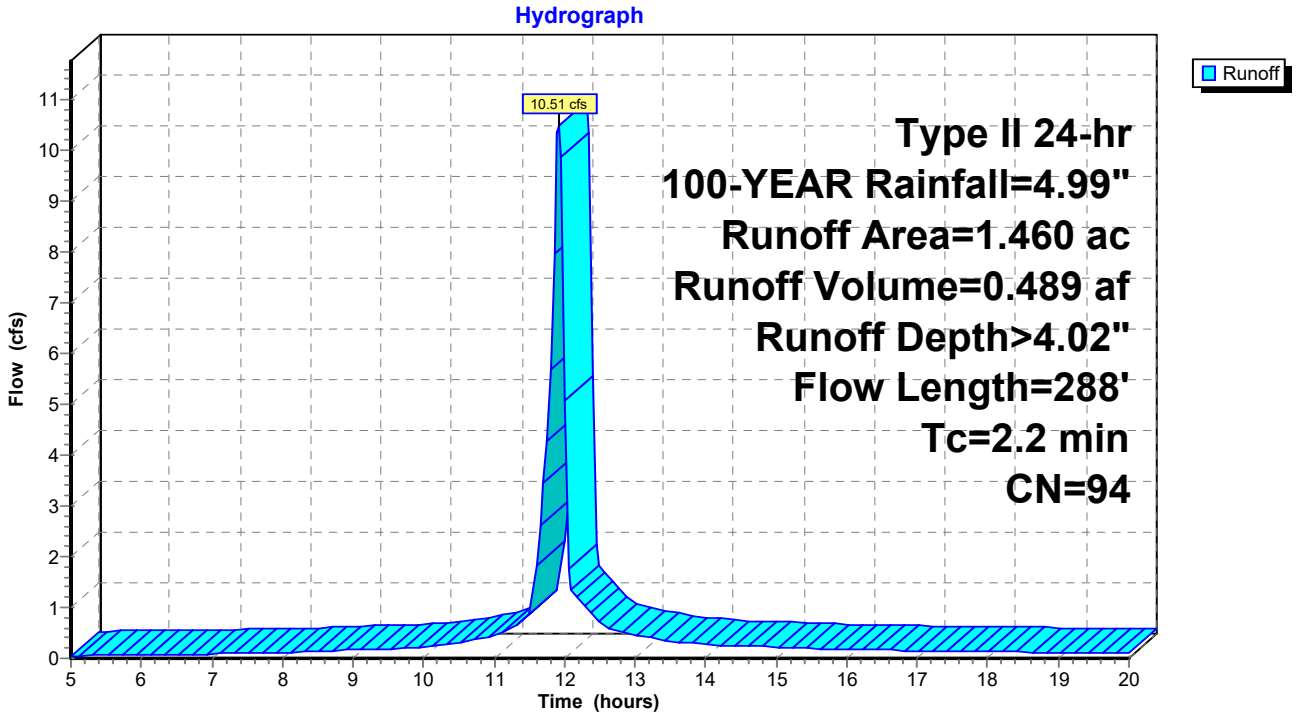
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-YEAR Rainfall=4.99"

Area (ac)	CN	Description
0.740	98	Paved parking, HSG D
0.410	98	Roofs, HSG D
0.310	80	>75% Grass cover, Good, HSG D
1.460	94	Weighted Average
0.310		21.23% Pervious Area
1.150		78.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.4	238	0.0040	2.87	2.25	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
2.2	288	Total			

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Subcatchment 3S: POST-DEV-CONTROLLED



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 5S: POST-DEV-UNCONTROLLED

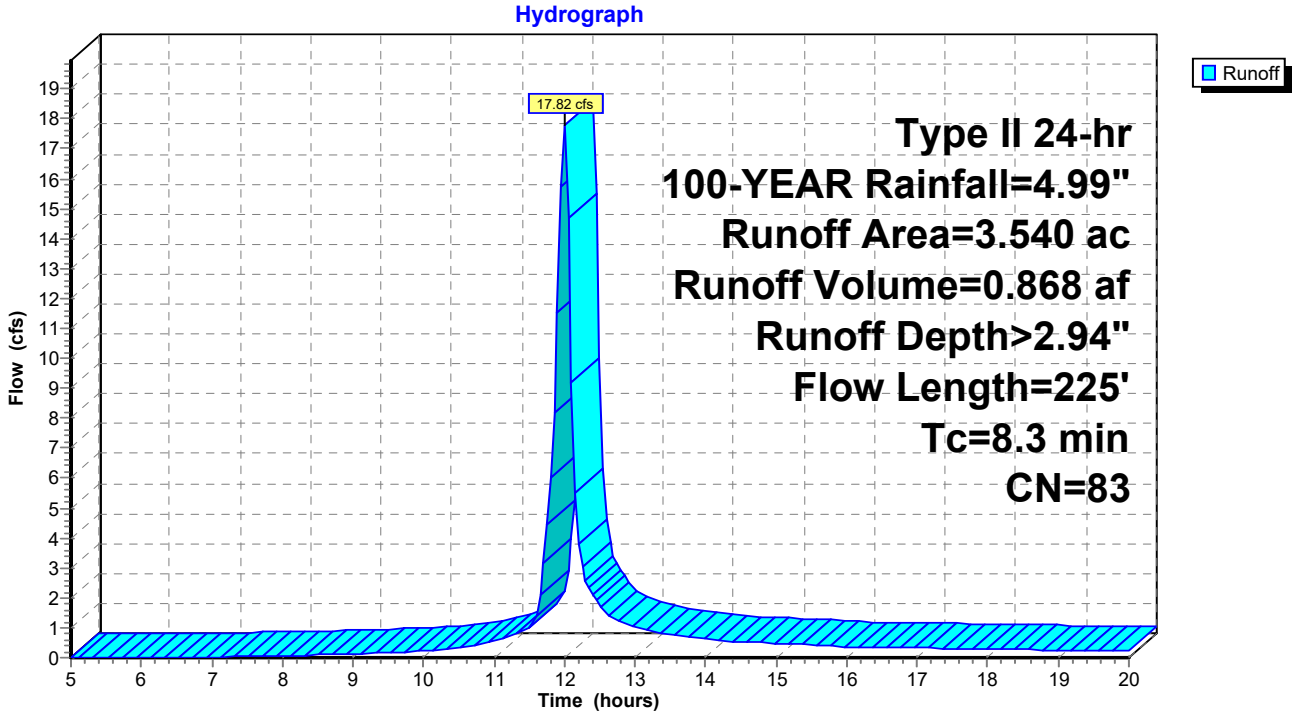
Runoff = 17.82 cfs @ 12.00 hrs, Volume= 0.868 af, Depth> 2.94"
Routed to Link 6L : POST-DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-YEAR Rainfall=4.99"

Area (ac)	CN	Description
2.810	83	Woods, Poor, HSG D
0.580	80	>75% Grass cover, Good, HSG D
0.150	98	Paved parking, HSG D
3.540	83	Weighted Average
3.390		95.76% Pervious Area
0.150		4.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	50	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
8.3	225	Total			

Subcatchment 5S: POST-DEV-UNCONTROLLED



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Pond 4P: DETENTION BASIN

[82] Warning: Early inflow requires earlier time span

Inflow Area = 1.460 ac, 78.77% Impervious, Inflow Depth > 4.02" for 100-YEAR event
Inflow = 10.51 cfs @ 11.92 hrs, Volume= 0.489 af
Outflow = 2.80 cfs @ 12.04 hrs, Volume= 0.460 af, Atten= 73%, Lag= 7.7 min
Primary = 2.80 cfs @ 12.04 hrs, Volume= 0.460 af
Routed to Link 6L : POST-DEV

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 584.37' @ 12.04 hrs Surf.Area= 5,502 sf Storage= 9,815 cf

Plug-Flow detention time= 130.1 min calculated for 0.460 af (94% of inflow)
Center-of-Mass det. time= 106.8 min (846.1 - 739.2)

Volume	Invert	Avail.Storage	Storage Description
#1	581.80'	13,563 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

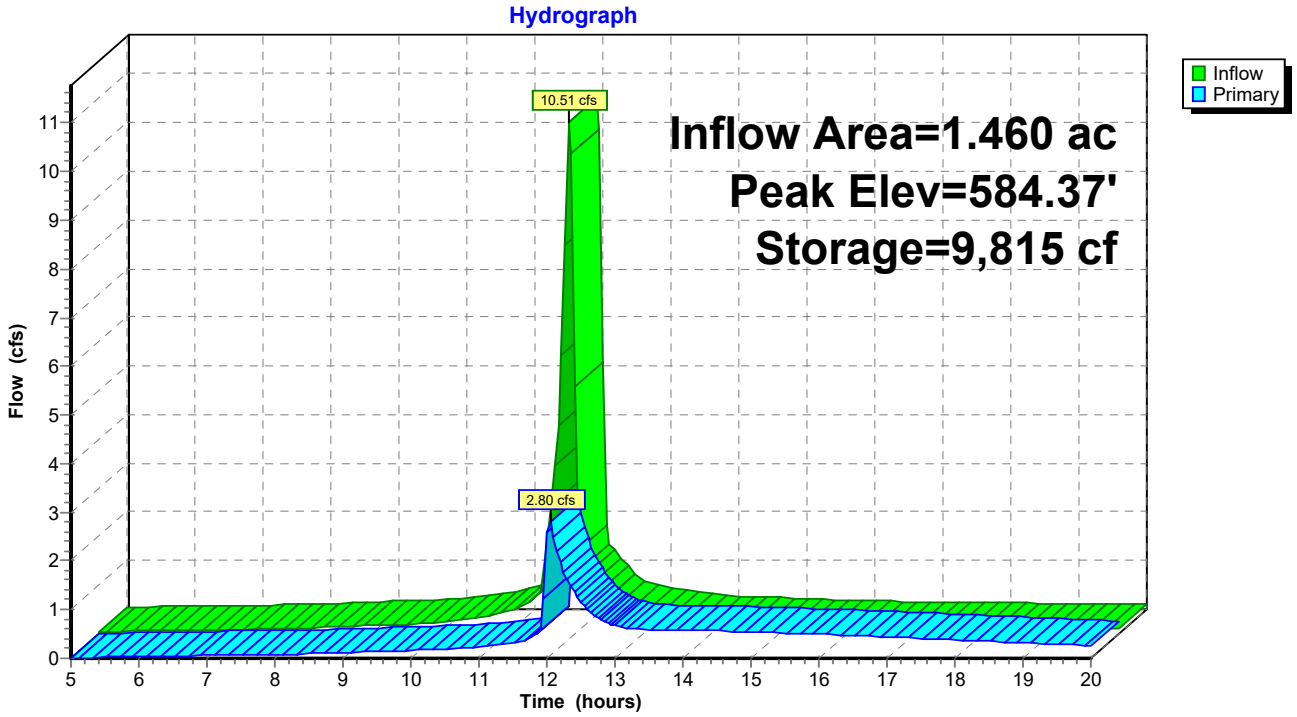
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
581.80	300	0	0
582.00	2,630	293	293
583.00	3,770	3,200	3,493
584.00	5,010	4,390	7,883
585.00	6,350	5,680	13,563

Device	Routing	Invert	Outlet Devices
#1	Primary	581.65'	**12.0" Round Culvert** L= 65.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.65' / 581.30' S= 0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#2	Device 1	581.80'	**4.0" Round Culvert** L= 4.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.80' / 581.75' S= 0.0125 '/' Cc= 0.900 n= 0.013, Flow Area= 0.09 sf
#3	Device 1	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

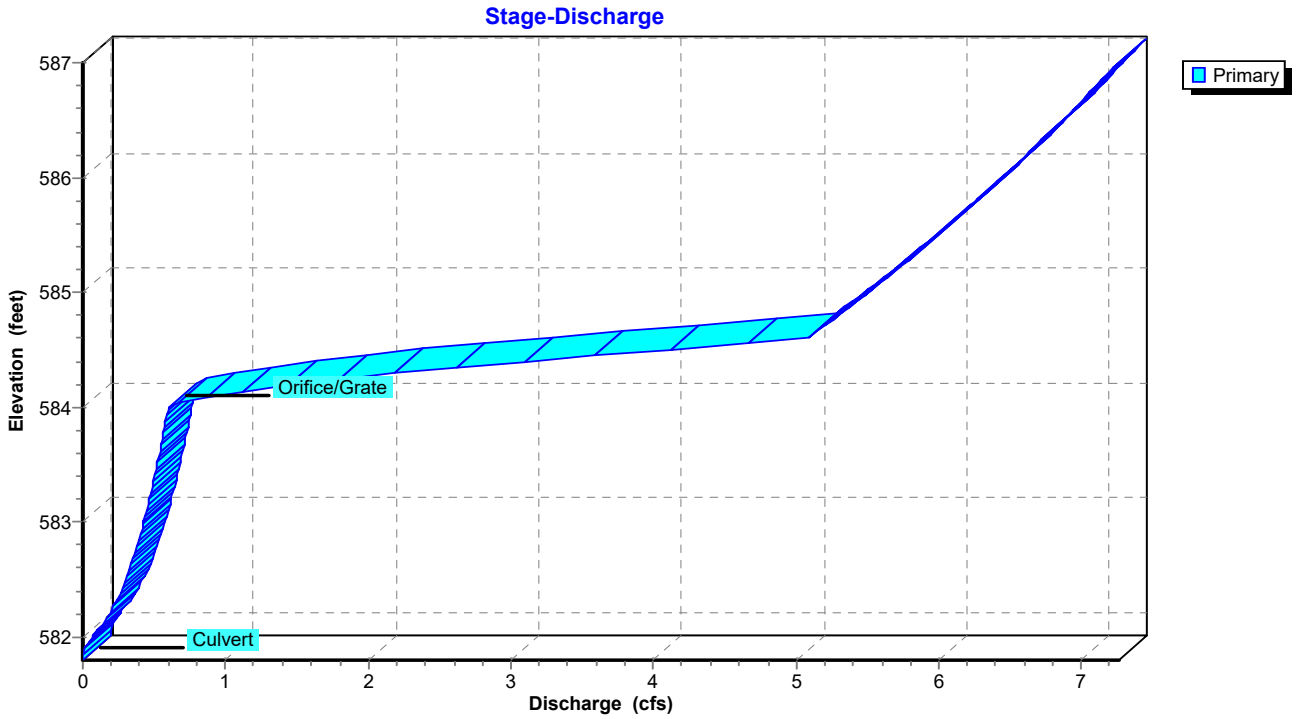
Primary OutFlow Max=2.77 cfs @ 12.04 hrs HW=584.36' (Free Discharge)
└**1=Culvert** (Passes 2.77 cfs of 4.81 cfs potential flow)
└**2=Culvert** (Inlet Controls 0.65 cfs @ 7.46 fps)
└**3=Orifice/Grate** (Orifice Controls 2.12 cfs @ 1.94 fps)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Pond 4P: DETENTION BASIN



Pond 4P: DETENTION BASIN



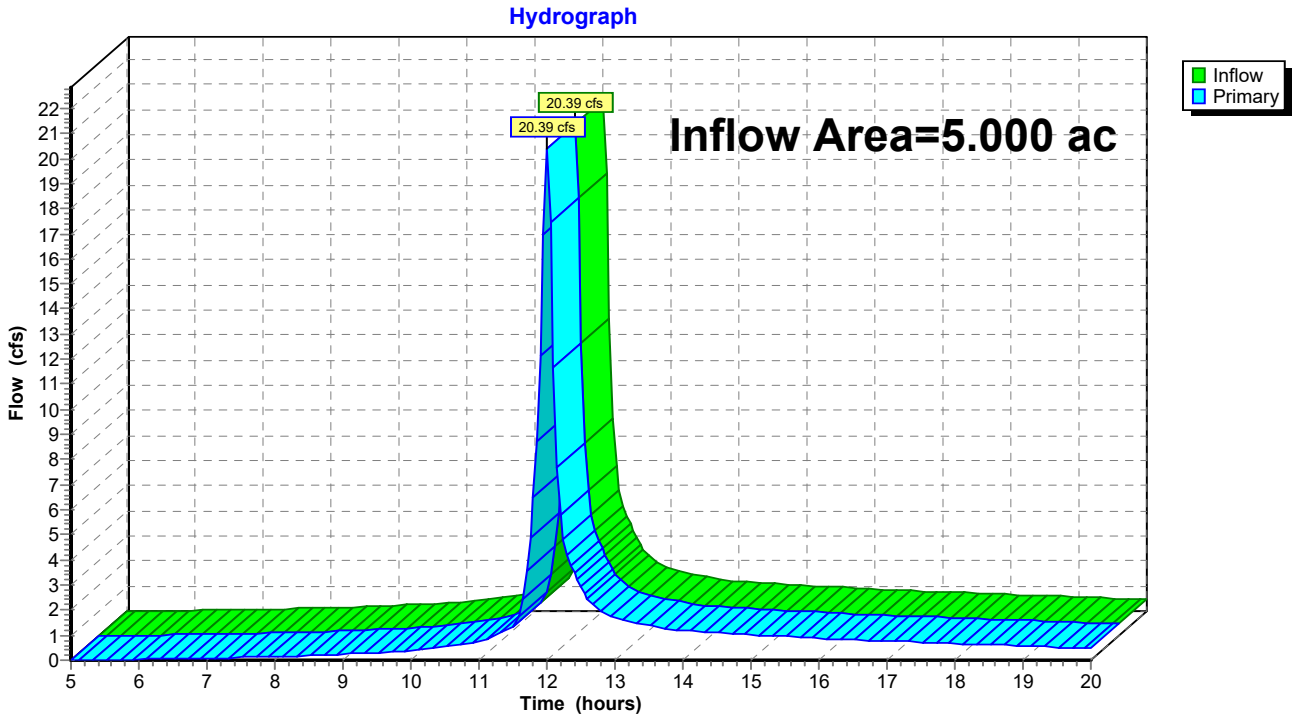
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Link 6L: POST-DEV

Inflow Area = 5.000 ac, 26.00% Impervious, Inflow Depth > 3.19" for 100-YEAR event
Inflow = 20.39 cfs @ 12.00 hrs, Volume= 1.329 af
Primary = 20.39 cfs @ 12.00 hrs, Volume= 1.329 af, Atten= 0%, Lag= 0.0 min

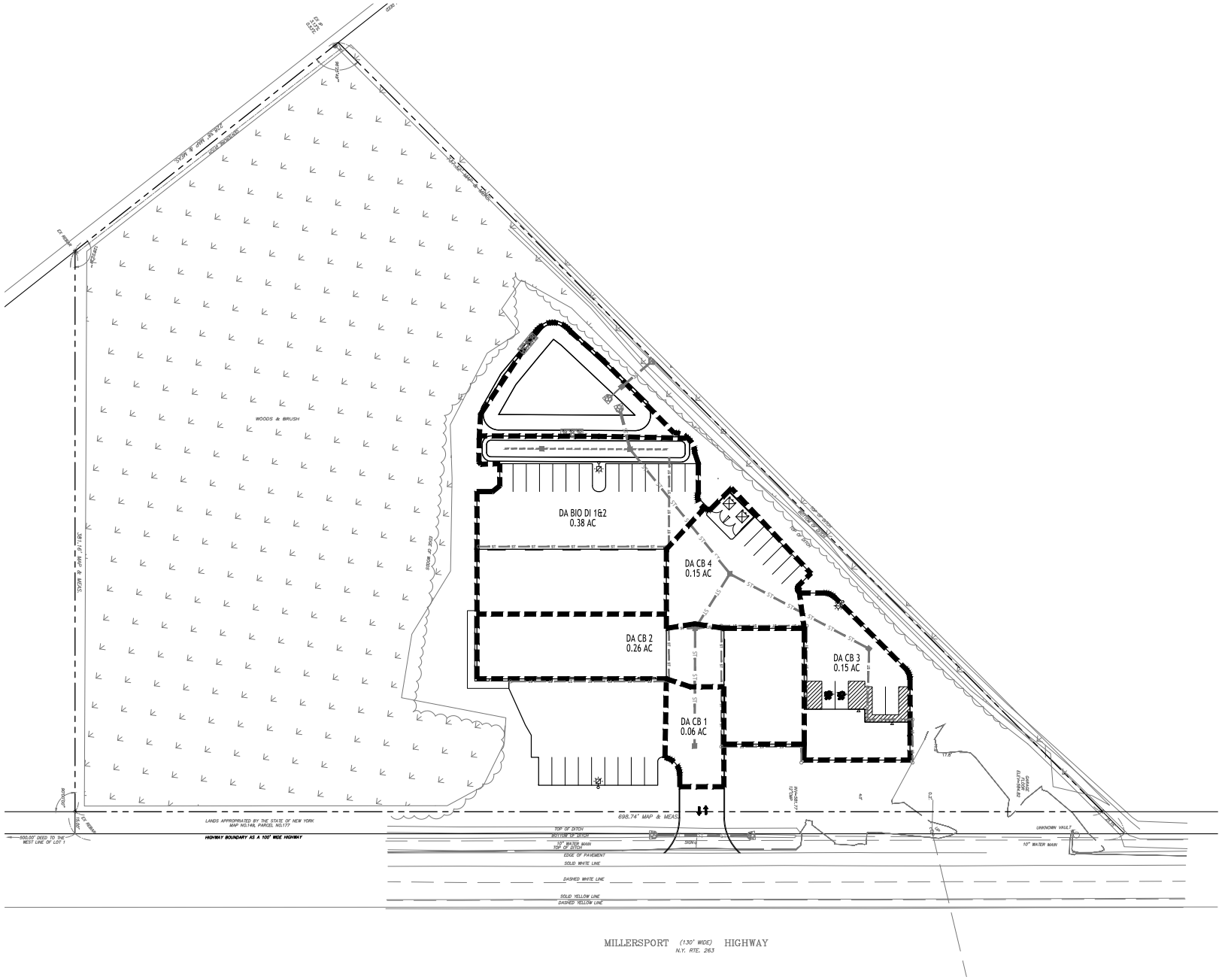
Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 6L: POST-DEV



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



STORM DRAINAGE AREA MAP

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS.
CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY

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CARMINAWO

Proposed Warehouse Buildings

REVISIONS:
No. Description Date

PRELIMINARY

DRAWING NAM
Storm Dr
Area Map

Date: ../19/24
Drawn By: C. Wood
Scale: As Noted
DRAWING NO.

Project No.: 24.4019

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport

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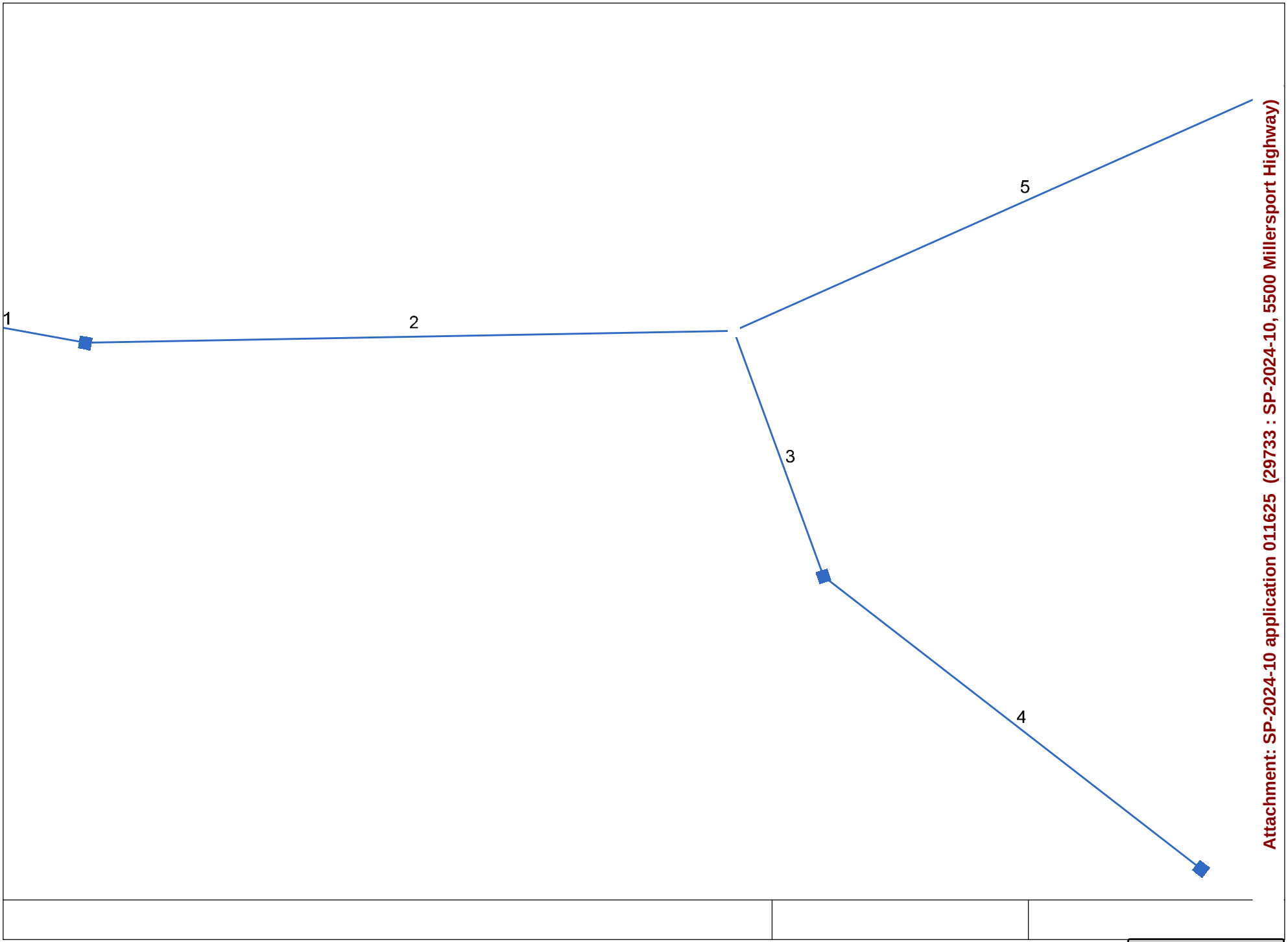
Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



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Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
1	End	28.573	10.327	Genr	0.00	0.38	0.65	5.0	581.57	0.31	581.66	18	Cir	0.012	0.50	585.00	BIO1-ES
2	1	108.568	-11.430	Genr	0.00	0.15	0.75	5.0	581.66	0.96	582.70	12	Cir	0.012	1.43	585.36	CB4-BIO1
3	2	43.957	71.191	Genr	0.00	0.26	0.75	5.0	582.70	0.66	582.99	12	Cir	0.012	0.88	586.15	CB2 - CB4
4	3	80.000	-32.228	Genr	0.00	0.06	0.75	5.0	582.99	0.51	583.40	12	Cir	0.012	1.00	585.90	CB1 - CB2
5	2	107.400	-22.981	Genr	0.00	0.15	0.75	5.0	582.70	0.40	583.13	12	Cir	0.012	1.00	585.63	CB3 - CB4

Project File: 10.03.24-HYDRAFLOW.stm | Number of lines: 5 | Date: 11/19/2024

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Structure Report

Struct No.	Structure ID	Junction Type	Rim Elev (ft)	Structure			Line Out			Line In		
				Shape	Length (ft)	Width (ft)	Size (in)	Shape	Invert (ft)	Size (in)	Shape	Invert (ft)
1	BIO DI 1	Generic	585.00	Rect	2.00	2.00	18	Cir	581.66	12	Cir	581.6
2	CB 4	Generic	585.36	Rect	2.00	2.00	12	Cir	582.70	12 12	Cir Cir	582.7 582.7
3	CB 2	Generic	586.15	Rect	2.00	2.00	12	Cir	582.99	12	Cir	582.9
4	CB 1	Generic	585.90	Rect	2.00	2.00	12	Cir	583.40			
5	CB 3	Generic	585.63	Rect	2.00	2.00	12	Cir	583.13			

Project File: 10.03.24-HYDRAFLOW.stm | Number of Structures: 5 | Run Date: 11/19/2024

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Green Infrastructure & Water Quality Calculations

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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WATER QUALITY REQUIRED FOR PROPOSED DEVELOPMENT AREA Area, Acres = 1.72

(Note: Reference Chap. 9 NYSDEC Stormwater Design Manual)

"Redevelopment Activity", Acres = 0.25 "New development", Acres = 1.47
(existing, disturbed impervious area)

Total proposed impervious, Acres = 1.32 Adjusted impervious, Acres = 1.13
"New" impervious, Acres = 1.07 (25% redevelopment, 100% new development)

Water Quality Volume (WQv) WQv=P*R*A/12

Where:	P=90% Rainfall Event Number	P= 1
	Rv= 0.05+0.009*(I)	Rv= 0.64
	IC=Impervious Cover, Acres	IC= 1.13
	I=Impervious Cover (%)	I= 66
	A=Runoff Area, Acres	A= 1.72

WQv (ac-ft)= 0.092
WQv (cf)= 4004

Note: Although Runoff Reduction Volume (RRv) sizing criteria is not required for "Redevelopment Activity", the attached Bioretention Worksheet for RRv sizing is for both "New Development" and "Redevelopment"

RRv PROVIDED FOR PROPOSED DEVELOPMENT AREA (See NYSDEC worksheets)

	WQv, cf	RRv, cf
Min. RRv Req'd, cf = 779	RRv, Bioretention Area 3,204	800
Min. RRv Req'd, ac-ft = 0.018		
	TOTAL, cf 3204	800
	TOTAL, ac-ft 0.074	0.018

WQ & RR SUMMARY (ac-ft):

TOTAL WATER QUALITY PROVIDED FOR PROPOSED DEVELOPMENT AREA 0.074

IS WATER QUALITY VOLUME REQUIREMENT MET? No
(WQv provided equal to or greater than WQv required)

IS RUNOFF REDUCTION VOLUME REQUIREMENT MET? Yes
(RRv provided equal to or greater than Min. RRv required)

Date 11/20/24

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Version 1.6
Last Updated: 03/28/2014

Total Water Quality Volume Calculation
WQv(acre-feet) = [(P)(Rv)(A)] /12

Is this project subject to Chapter 10 of the NYS Design Manual (i.e. WQv is equal to post-development 1 year runoff volume)?.....		
Design Point:		
P=	1.00	*inch*

Breakdown of Subcatchments

Catchment Number	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	Description
1	1.72	1.13	66%	0.64	4,004	Bioretention
2						
3						
4						
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	1.72	1.13	66%	0.64	**4,004**	**Subtotal 1**
Total	1.72	1.13	66%	0.64	**4,004**	**Initial WQv**

Identify Runoff Reduction Techniques By Area

Technique	Total Contributing Area *(Acre)*	Contributing Impervious Area *(Acre)*	Notes
Conservation of Natural Areas	0.00	0.00	*minimum 10,000 sf*
Riparian Buffers	0.00	0.00	*maximum contributing length 75 feet to 150 feet*
Filter Strips	0.00	0.00	
Tree Planting	0.00	0.00	*Up to 100 sf directly connected impervious area may be subtracted per tree*
Total	**0.00**	**0.00**	

Recalculate WQv after application of Area Reduction Techniques

	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Runoff Coefficient Rv	WQv *(ft^3)*
"<<Initial WQv"	1.72	1.13	66%	0.64	4,004
Subtract Area	0.00	0.00			
WQv adjusted after Area Reductions	**1.72**	**1.13**	66%	0.64	4,004
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	1.72	1.13	66%	0.64	**4,004**

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Version 1.6
Last Updated: 03/28/2014

Total Water Quality Volume Calculation
WQv(acre-feet) = [(P)(Rv)(A)] /12

0.09	**af**

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0.09	**af**

Runoff Reduction Volume and Treated volumes						
	Runoff Reduction Techiques/Standard SMPs		**Total Contributing Area**	**Total Contributing Impervious Area**	**WQv Reduced (RRv)**	**WQv Treated**
			(acres)	**(acres)**	**cf**	**cf**
Area/Volume Reduction	Conservation of Natural Areas	RR-1	0.00	0.00		
	Sheetflow to Riparian Buffers/Filter Strips	RR-2	0.00	0.00		
	Tree Planting/Tree Pit	RR-3	0.00	0.00		
	Disconnection of Rooftop Runoff	RR-4		0.00		
	Vegetated Swale	RR-5	0.00	0.00	0	
	Rain Garden	RR-6	0.00	0.00	0	
	Stormwater Planter	RR-7	0.00	0.00	0	
	Rain Barrel/Cistern	RR-8	0.00	0.00	0	
	Porous Pavement	RR-9	0.00	0.00	0	
	Green Roof (Intensive & Extensive)	RR-10	0.00	0.00	0	
Standard SMPs w/RRv Capacity	Infiltration Trench	I-1	0.00	0.00	0	0
	Infiltration Basin	I-2	0.00	0.00	0	0
	Dry Well	I-3	0.00	0.00	0	0
	Underground Infiltration System	I-4	0.00			
	Bioretention & Infiltration Bioretention	F-5	1.72	1.13	800	3204
	Dry swale	O-1	0.00	0.00	0	0
Standard SMPs	Micropool Extended Detention (P-1)	P-1				
	Wet Pond (P-2)	P-2				
	Wet Extended Detention (P-3)	P-3				
	Multiple Pond system (P-4)	P-4				
	Pocket Pond (p-5)	P-5				
	Surface Sand filter (F-1)	F-1				
	Underground Sand filter (F-2)	F-2				
	Perimeter Sand Filter (F-3)	F-3				
	Organic Filter (F-4	F-4				
	Shallow Wetland (W-1)	W-1				
	Extended Detention Wetland (W-2	W-2				
	Pond/Wetland System (W-3)	W-3				
	Pocket Wetland (W-4)	W-4				
	Wet Swale (O-2)	O-2				
Totals by Area Reduction →			0.00	0.00	0	
Totals by Volume Reduction →			0.00	0.00	0	
Totals by Standard SMP w/RRV →			1.72	1.13	800	3204
Totals by Standard SMP →			0.00	0.00		0

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Totals (Area + Volume + all SMPs)		→	1.72	1.13	800	3,204
	Impervious Cover √	okay				
	Total Area √	okay				

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Minimum RRv

Enter the Soils Data for the site		
Soil Group	Acres	S
A		55%
B		40%
C		30%
D	**1.72**	20%
Total Area	1.72	
Calculate the Minimum RRv		
S =	**0.20**	
Impervious =	1.13	*acre*
Precipitation	1	*in*
Rv	0.95	
Minimum RRv	**779**	***ft3***
	0.02	af

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Bioretention Worksheet

(For use on HSG C or D Soils with underdrains)

Af=WQv*(df)/[k*(hf+df)(tf)]

Af	Required Surface Area (ft2)
WQv	Water Quality Volume (ft3)
df	Depth of the Soil Medium (feet)
hf	Average height of water above the planter bed
tf	Volume Through the Filter Media (days)

k — The hydraulic conductivity [ft/day], can be varied depending on the properties of the soil media. Some reported conductivity values are: ***Sand*** - 3.5 ft/day (City of Austin 1988); ***Peat*** - 2.0 ft/day (Galli 1990); ***Leaf Compost*** - 8.7 ft/day (Claytor and Schueler, 1996); ***Bioretention Soil*** (0.5 ft/day (Claytor &

Design Point:	

Enter Site Data For Drainage Area to be Treated by Practice							
Catchment Number	**Total Area** *(Acres)*	**Impervious Area** *(Acres)*	**Percent Impervious** *%*	**Rv**	**WQv** *(ft^3)*	**Precipitation** *(in)*	**Description**
1	1.72	1.13	0.66	0.64	4003.89	1.00	Bioretention
Enter Impervious Area Reduced by Disconnection of Rooftops			66%	0.64	4,004	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						*ft^3*	

Soil Information			
Soil Group	D		
Soil Infiltration Rate	0.00	*in/hour*	*Okay*
Using Underdrains?	Yes	*Okay*	

Calculate the Minimum Filter Area				
		Value	Units	Notes
WQv		4,004	*ft^3*	
Enter Depth of Soil Media	*df*	1.5	*ft*	*2.5-4 ft*
Enter Hydraulic Conductivity	*k*	0.5	*ft/day*	
Enter Average Height of Ponding	*hf*	0.5	*ft*	*6 inches max.*
Enter Filter Time	*tf*	2	*days*	
Required Filter Area	***Af***	**3003**	***ft^2***	

Determine Actual Bio-Retention Area			
Filter Width	20	*ft*	
Filter Length	75	*ft*	
Filter Area	1500	*ft^2*	
Actual Volume Provided	2000	*ft^3*	

Determine Runoff Reduction				
Is the Bioretention contributing flow to another practice?		No	Select Practice	N/A
RRv	800			
RRv applied	**800**	***ft^3***	***This is 40% of the storage provided or WQv whichever is less.***	
Volume Treated	3,204	*ft^3*	*This is the portion of the WQv that is not reduced in the practice.*	
Volume Directed	0	*ft^3*	This volume is directed another practice	

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Bioretention Worksheet

RRv applied	**0**	***ft*** ^{3}	***This is 40% of the storage provided or WQv whichever is less.***
Volume Treated		*ft* ^{3}	*This is the portion of the WQv that is not reduced in the practice.*
Volume Directed		*ft* ^{3}	This volume is directed another practice
Sizing √	OK		*Check to be sure Area provided ≥ Af*

Total RRv Applied	800.00
Total Area	1.72
Total Impervious Area	1.13
Total Volume Treated	3,203.89
Rooftop Disconnect Impervious Area Total	0.00

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix E

NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-20-001

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP- 0-20-001

Issued Pursuant to Article 17, Titles 7, 8 and Article 70

of the Environmental Conservation Law

Effective Date: January 29, 2020

Expiration Date: January 28, 2025

John J. Ferguson

Chief Permit Administrator

1-23-20

Authorized Signature

Date

Address: NYS DEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

PREFACE

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater *discharges* from certain *construction activities* are unlawful unless they are authorized by a *National Pollutant Discharge Elimination System ("NPDES")* permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An *owner or operator* of a *construction activity* that is eligible for coverage under this permit must obtain coverage prior to the *commencement of construction activity*. Activities that fit the definition of "*construction activity*", as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a *point source* and therefore, pursuant to ECL section 17-0505 and 17-0701, the *owner or operator* must have coverage under a SPDES permit prior to *commencing construction activity*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

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Part 1. PERMIT COVERAGE AND LIMITATIONS

A. Permit Application

This permit authorizes stormwater *discharges* to *surface waters of the State* from the following *construction activities* identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. *Construction activities* involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;

2. *Construction activities* involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants* to *surface waters of the State.*

3. *Construction activities* located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

B. Effluent Limitations Applicable to Discharges from Construction Activities

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement and maintain control measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1.(a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in the *Stormwater Pollution Prevention Plan* ("SWPPP") the reason(s) for the

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deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such controls must be designed, installed and maintained to:

   (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharge*s;

   (ii) Control stormwater *discharge*s, including both peak flowrates and total stormwater volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points;

   (iii) *Minimize* the amount of soil exposed during *construction activity*;

   (iv) *Minimize* the disturbance of *steep slopes*;

   (v) *Minimize* sediment *discharge*s from the site;

   (vi) Provide and maintain *natural buffer*s around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharge*s, unless *infeasible*;

   (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;

   (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and

   (ix) *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.

b. **Soil Stabilization**. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments

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listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

c. **Dewatering**. *Discharges* from *dewatering* activities, including *discharges* from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

d. **Pollution Prevention Measures**. Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:

(i) *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;

(ii) *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use) ; and

(iii) Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

e. **Prohibited *Discharges*.** The following *discharges* are prohibited:

(i) Wastewater from washout of concrete;

(ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

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(iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;

(iv) Soaps or solvents used in vehicle and equipment washing; and

(v) Toxic or hazardous substances from a spill or other release.

f. Surface Outlets. When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-construction Stormwater Management Practice Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the *performance criteria* in the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices ("SMPs") are not designed in conformance with the *performance criteria* in the Design Manual, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

a. Sizing Criteria for New Development

(i) Runoff Reduction Volume ("RRv"): Reduce the total Water Quality Volume ("WQv") by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP.

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For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

(iii) Channel Protection Volume ("Cpv"): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
(1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
(2) The site discharges directly to tidal waters, or fifth order or larger streams.

(iv) *Overbank* Flood Control Criteria ("Qp"): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
(1) the site discharges directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

(v) Extreme Flood Control Criteria ("Qf"): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
(1) the site discharges directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

b. *Sizing Criteria* for *New Development* in Enhanced Phosphorus Removal Watershed

(i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be

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calculated in accordance with the criteria in Section 10.3 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible.*

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

(iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
(1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
(2) The site *discharge*s directly to tidal waters, or fifth order or larger streams.

(iv) *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

(v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

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(Part I.C.2.c)

c. Sizing Criteria for Redevelopment Activity

(i) Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* shall be addressed by one of the following options. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other *redevelopment activities* shall calculate the WQv in accordance with Section 4.2 of the Design Manual.

(1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or

(2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRv capacity., or

(3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual., or

(4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 – 4 above.

(ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

(iii) *Overbank* Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

(iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site

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d. Sizing Criteria for Combination of Redevelopment Activity and New Development

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

D. Maintaining Water Quality

The Department expects that compliance with the conditions of this permit will control *discharge*s necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;

2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and

3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater *discharge*s authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the *owner or operator* may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharge*s authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized *discharge*s will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

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E. Eligibility Under This General Permit

1. This permit may authorize all *discharges* of stormwater from *construction activity* to *surface waters of the State* and *groundwaters* except for ineligible *discharges* identified under subparagraph F. of this Part.

2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharge*s; including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from *construction activities*.

3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated *discharge*s from *construction site* de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the *owner or operator* must still comply with *water quality standards* in Part I.D of this permit.

4. The *owner or operator* must maintain permit eligibility to *discharge* under this permit. Any *discharges* that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the *owner or operator* must either apply for a separate permit to cover those ineligible *discharges* or take steps necessary to make the *discharge* eligible for coverage.

F. Activities Which Are Ineligible for Coverage Under This General Permit

All of the following are **not** authorized by this permit:

1. *Discharge*s after *construction activities* have been completed and the site has undergone *final stabilization*;

2. *Discharges* that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;

3. *Discharges* that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;

4. *Construction activities* or *discharges* from *construction activities* that may adversely affect an *endangered or threatened species* unless the *owner or*

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operator has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

5. *Discharges* which either cause or contribute to a violation of *water quality standards* adopted pursuant to the *ECL* and its accompanying regulations;

6. *Construction activities* for residential, commercial and institutional projects:

   a. Where the *discharge*s from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and

   b. Which are undertaken on land with no existing *impervious cover*; and

   c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture (“USDA”) Soil Survey as Soil Slope Phase “D”, (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase “E” or “F” (regardless of the map unit name), or a combination of the three designations.

7. *Construction activities* for linear transportation projects and linear utility projects:

   a. Where the *discharge*s from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and

   b. Which are undertaken on land with no existing *impervious cover*; and

   c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase “D” (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase “E” or “F” (regardless of the map unit name), or a combination of the three designations.

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8. *Construction activities* that have the potential to affect an *historic property*, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:

   a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.

      - 1-5 acres of disturbance - 20 feet
      - 5-20 acres of disturbance - 50 feet
      - 20+ acres of disturbance - 100 feet, or

   b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
      (i) the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
      (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
      (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
      (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or

   c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

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(i) No Affect
(ii) No Adverse Affect
(iii) Executed Memorandum of Agreement, or

d. Documentation that:

(i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.

9. *Discharge*s from *construction activities* that are subject to an existing SPDES individual or general permit where a SPDES permit for *construction activity* has been terminated or denied; or where the *owner or operator* has failed to renew an expired individual permit.

Part II. PERMIT COVERAGE

A. How to Obtain Coverage

1. An *owner or operator* of a *construction activity* that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.

2. An *owner or operator* of a *construction activity* that is subject to the requirements of a *regulated, traditional land use control MS4* must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department. The *owner or operator* shall have the "MS4 SWPPP Acceptance" form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.

3. The requirement for an *owner or operator* to have its SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department does not apply to an *owner or operator* that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of *Owner or Operator*) or where the *owner or operator* of the *construction activity* is the *regulated, traditional land use control MS4* . This exemption does not apply to *construction activities* subject to the New York City Administrative Code.

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B. Notice of Intent (NOI) Submittal

1. Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (http://www.dec.ny.gov/). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:

   NOTICE OF INTENT
   NYS DEC, Bureau of Water Permits
   625 Broadway, 4th Floor
   Albany, New York 12233-3505

2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the *owner or operator* must submit the NOI electronically using the *Department's* online NOI.

3. The *owner or operator* shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.

4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

C. Permit Authorization

1. An *owner or operator* shall not *commence construction activity* until their authorization to *discharge* under this permit goes into effect.

2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied all of the following criteria:

   a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (http://www.dec.ny.gov/) for more information,

   b. where required, all necessary Department permits subject to the *Uniform Procedures Act ("UPA")* (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). *Owners or operators* of *construction activities* that are required to obtain *UPA* permits

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must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary *UPA* permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,

c. the final SWPPP has been prepared, and

d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.

3. An *owner or operator* that has satisfied the requirements of Part II.C.2 above will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:

   a. For *construction activities* that are not subject to the requirements of a *regulated, traditional land use control MS4*:

      (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.; or

      (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for *construction activities* with a SWPPP that has not been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;

      (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.

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b. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*:

(i) Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed "*MS4* SWPPP Acceptance" form, or

(ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed "MS4 SWPPP Acceptance" form.

4. Coverage under this permit authorizes stormwater *discharges* from only those areas of disturbance that are identified in the NOI. If an *owner or operator* wishes to have stormwater *discharges* from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The *owner or operator* shall not *commence construction activity* on the future or additional areas until their authorization to *discharge* under this permit goes into effect in accordance with Part II.C. of this permit.

D. General Requirements For Owners or Operators With Permit Coverage

1. The *owner or operator* shall ensure that the provisions of the SWPPP are implemented from the *commencement of construction activity* until all areas of disturbance have achieved *final stabilization* and the Notice of Termination ("NOT") has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.

2. The *owner or operator* shall maintain a copy of the General Permit (GP-0-20-001), NOI, *NOI Acknowledgment Letter*, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor's or subcontractor's certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the *construction site* until all disturbed areas have achieved *final stabilization* and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.

3. The *owner or operator* of a *construction activity* shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land*

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use control MS4, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*). At a minimum, the *owner or operator* must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:

a. The *owner or operator* shall have a *qualified inspector* conduct **at least** two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.

c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.

d. The *owner or operator* shall install any additional site-specific practices needed to protect water quality.

e. The *owner or operator* shall include the requirements above in their SWPPP.

4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..

5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

6. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*, the *owner or operator* shall notify the

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regulated, traditional land use control MS4 in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the *regulated, traditional land use control MS4*, the *owner or operator* shall have the SWPPP amendments or modifications reviewed and accepted by the *regulated, traditional land use control MS4* prior to commencing construction of the post-construction stormwater management practice.

E. Permit Coverage for Discharges Authorized Under GP-0-15-002

1. Upon renewal of SPDES General Permit for Stormwater Discharges from *Construction Activity* (Permit No. GP-0-15-002), an *owner or operator* of *a construction activity* with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to *discharge* in accordance with GP- 0-20-001, unless otherwise notified by the Department.

   An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.

F. Change of Owner or Operator

1. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original *owner or operator* must notify the new *owner or operator*, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For *construction activities* subject to the requirements of a *regulated, traditional land use control MS4,* the original *owner or operator* must also notify the MS4, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.

2. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.B.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.

3. Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or*

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operator was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new *owner or operator*.

Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A. General SWPPP Requirements

1. A SWPPP shall be prepared and implemented by the *owner or operator* of each *construction activity* covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the *commencement of construction activity*. A copy of the completed, final NOI shall be included in the SWPPP.

2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.

3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.

4. The *owner or operator* must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the *owner or operator* shall amend the SWPPP, including construction drawings:

    a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;

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b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*;

c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* the Department or other regulatory authority; and

d. to document the final construction conditions.

5. The Department may notify the *owner or operator* at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.

6. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The *owner or operator* shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor.* The *owner or operator* shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

   The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*:

   "I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with

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the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharge*s from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

B. Required SWPPP Contents

1. Erosion and sediment control component - All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:

   a. Background information about the scope of the project, including the location, type and size of project

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b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours ; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge*(s);

c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);

d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;

e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;

f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;

g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;

h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;

i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection

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schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;

k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and

l. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. Post-construction stormwater management practice component – The *owner or operator* of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable *sizing criteria* in Part I.C.2.a., c. or d. of this permit and the *performance criteria* in the technical standard, New York State Stormwater Management Design Manual dated January 2015

   Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

   The post-construction stormwater management practice component of the SWPPP shall include the following:

   a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

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b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;

c. A Stormwater Modeling and Analysis Report that includes:
   (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;

   (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;

   (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;

   (iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;

   (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and

   (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;

d. Soil testing results and locations (test pits, borings);

e. Infiltration test results, when required; and

f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

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3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria,* Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

C. Required SWPPP Components by Project Type

Unless otherwise notified by the Department, *owners or operators* of *construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators* of the *construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.

2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York or protect the public health and safety and/or the environment.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity* identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

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begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.

3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. Qualified Inspector Inspection Requirements

The *owner or operator* shall have a *qualified inspector* conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be a:

- licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- New York State Erosion and Sediment Control Certificate Program holder
- Registered Landscape Architect, or
- someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].

1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, with the exception of:

   a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located

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in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;

b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;

c. construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and

d. *construction activities* located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:

a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.

b. For construction sites where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* shall conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4,* the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to reducing the frequency of inspections.

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d. For construction sites where soil disturbance activities have been shut down with partial project completion, the *qualified inspector* can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4,* the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* shall have the *qualified inspector* perform a final inspection and certify that all disturbed areas have achieved *final stabilization,* and all temporary, structural erosion and sediment control measures have been removed*;* and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The *owner or operator* shall then submit the completed NOT form to the address in Part II.B.1 of this permit.

e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved *final stabilization,* all points of *discharge* to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site*, and all points of *discharge* from the *construction site*.

4. The *qualified inspector* shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

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(Part IV.C.4.a)

a. Date and time of inspection;

b. Name and title of person(s) performing inspection;

c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;

d. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This shall include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;

e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This shall include identification of any *discharges* of sediment to the surface waterbody;

f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;

g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;

h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;

i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;

j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);

k. Identification and status of all corrective actions that were required by previous inspection; and

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l. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

5. Within one business day of the completion of an inspection, the *qualified inspector* shall notify the *owner or operator* and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.

6. All inspection reports shall be signed by the *qualified inspector.* Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

Part V. TERMINATION OF PERMIT COVERAGE

A. Termination of Permit Coverage

1. An *owner or operator* that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.B.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.

2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:

   a. Total project completion - All *construction activity* identified in the SWPPP has been completed; and all areas of disturbance have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;

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b. Planned shutdown with partial project completion - All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;

c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.F. of this permit.

d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.

3. For *construction activities* meeting subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *qualified inspector* perform a final site inspection prior to submitting the NOT. The *qualified inspector* shall, by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.

4. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4* and meet subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *regulated, traditional land use control MS4* sign the "MS4 Acceptance" statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The *regulated, traditional land use control MS4* official, by signing this statement, has determined that it is acceptable for the *owner or operator* to submit the NOT in accordance with the requirements of this Part. The *regulated, traditional land use control MS4* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector*'s final site inspection certification(s) required in Part V.A.3. of this permit.

5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:

a. the post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,

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b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),

c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record,

d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

Part VI. REPORTING AND RETENTION RECORDS

A. Record Retention

The *owner or operator* shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

B. Addresses

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

Part VII. STANDARD PERMIT CONDITIONS

A. Duty to Comply

The *owner or operator* must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water

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Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE). *Construction activity* shall not resume until written permission to do so has been received from the RWE.

B. Continuation of the Expired General Permit

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

C. Enforcement

Failure of the *owner or operator,* its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to $37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

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E. Duty to Mitigate

The *owner or operator* and its contractors and subcontractors shall take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. Duty to Provide Information

The *owner or operator* shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five (5) business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

G. Other Information

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit , or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

H. Signatory Requirements

1. All NOIs and NOTs shall be signed as follows:

    a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

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(i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

(ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

(i) the chief executive officer of the agency, or

(ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

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superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and,

c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.

3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.

4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated, traditional land use control MS4,* or by a duly authorized representative of that person.

   It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

I. Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

J. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

K. Requirement to Obtain Coverage Under an Alternative Permit

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

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include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to *discharge* under a general SPDES permit for the same *discharge*(s), the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

L. Proper Operation and Maintenance

The *owner or operator* shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the *owner or operator* to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

M. Inspection and Entry

The *owner or operator* shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the owner’s or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

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3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.

4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

N. Permit Actions

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

O. Definitions

Definitions of key terms are included in Appendix A of this permit.

P. Re-Opener Clause

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.

2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

Q. Penalties for Falsification of Forms and Reports

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

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(Part VII.R)

R. Other Permits

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

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APPENDIX A – Acronyms and Definitions

Acronyms

APO – Agency Preservation Officer
BMP – Best Management Practice
CPESC – Certified Professional in Erosion and Sediment Control
Cpv – Channel Protection Volume
CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)
DOW – Division of Water
EAF – Environmental Assessment Form
ECL - Environmental Conservation Law
EPA – U. S. Environmental Protection Agency
HSG – Hydrologic Soil Group
MS4 – Municipal Separate Storm Sewer System
NOI – Notice of Intent
NOT – Notice of Termination
NPDES – National Pollutant Discharge Elimination System
OPRHP – Office of Parks, Recreation and Historic Places
Qf – Extreme Flood
Qp – Overbank Flood
RRv – Runoff Reduction Volume
RWE – Regional Water Engineer
SEQR – State Environmental Quality Review
SEQRA - State Environmental Quality Review Act
SHPA – State Historic Preservation Act
SPDES – State Pollutant Discharge Elimination System
SWPPP – Stormwater Pollution Prevention Plan
TMDL – Total Maximum Daily Load
UPA – Uniform Procedures Act
USDA – United States Department of Agriculture
WQv – Water Quality Volume

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Definitions

All definitions in this section are solely for the purposes of this permit.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property –means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

Alter Hydrology from Pre to Post-Development Conditions - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer - means a sewer that is designed to collect and convey both "sewage" and "stormwater".

Commence (Commencement of) Construction Activities - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for "*Construction Activity(ies)*" also.

Construction Activity(ies) - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Construction Site – means the land area where *construction activity(ies)* will occur. See definition for "*Commence (Commencement of) Construction Activities"* and "*Larger Common Plan of Development or Sale" also.*

Dewatering – means the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Direct Discharge (to a specific surface waterbody) - means that runoff flows from a *construction site* by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system

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and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

Discharge(s) - means any addition of any pollutant to waters of the State through an outlet or *point source*.

Embankment –means an earthen or rock slope that supports a road/highway.

Endangered or Threatened Species – see 6 NYCRR Part 182 of the Department's rules and regulations for definition of terms and requirements.

Environmental Conservation Law (ECL) - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

Equivalent (Equivalence) – means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

General SPDES permit - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

Groundwater(s) - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

Historic Property – means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

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Larger Common Plan of Development or Sale - means a contiguous area where multiple separate and distinct *construction activities* are occurring, or will occur, under one plan. The term "plan" in "larger common plan of development or sale" is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that *construction activities* may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

Minimize – means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

(i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State*;*
(ii) Designed or used for collecting or conveying stormwater;
(iii) Which is not a *combined sewer*; and
(iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

Natural Buffer –means an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

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New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

NOI Acknowledgment Letter - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

Nonpoint Source - means any source of water pollution or pollutants which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank –means flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator - means the person, persons or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

Performance Criteria – means the design criteria listed under the "Required Elements" sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

Point Source - means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be discharged.

Pollutant - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq .

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Qualified Inspector - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Regulated, Traditional Land Use Control MS4 - means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

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SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Routine Maintenance Activity - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots,
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch,
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch),
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*,
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material,
- Long-term use of equipment storage areas at or near highway maintenance facilities,
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*,
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

Site limitations – means site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

State Pollutant Discharge Elimination System (SPDES) - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

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Steep Slope – means land area designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%) , or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Streambank – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – means a project specific report, including construction drawings, that among other things: describes the construction activity(ies), identifies the potential sources of pollution at the *construction site*; describes and shows the stormwater controls that will be used to control the pollutants (i.e. erosion and sediment controls; for many projects, includes post-construction stormwater management controls); and identifies procedures the *owner or operator* will implement to comply with the terms and conditions of the permit. See Part III of the permit for a complete description of the information that must be included in the SWPPP.

Surface Waters of the State - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Loads (TMDLs) - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint source*s. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for *point source* discharges, load allocations (LAs) for *nonpoint source*s, and a margin of safety (MOS).

Trained Contractor - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

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training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

Uniform Procedures Act (UPA) Permit - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

Water Quality Standard - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

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APPENDIX B – Required SWPPP Components by Project Type

Table 1
Construction Activities that Require the Preparation of a SWPPP That Only Includes Erosion and Sediment Controls

The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:

- Single family home not located in one of the watersheds listed in Appendix C or not *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions with 25% or less impervious cover at total site build-out and not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E
- Construction of a barn or other *agricultural building*, silo, stock yard or pen.

The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:

All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains
- Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover
- Cross-country ski trails and walking/hiking trails
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development;
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path.
- Slope stabilization projects
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics

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Table 1 (Continued) CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that *alter hydrology from pre to post development* conditions,
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre to post development* conditions
- Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*
- Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete

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Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) and structural practices as identified in Table II in the “Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State” that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW’s, water treatment plants, and water storage tanks
- Office complexes
- Playgrounds that include the construction or reconstruction of impervious area
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover,* and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre to post development* conditions, and are not listed in Table 1

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

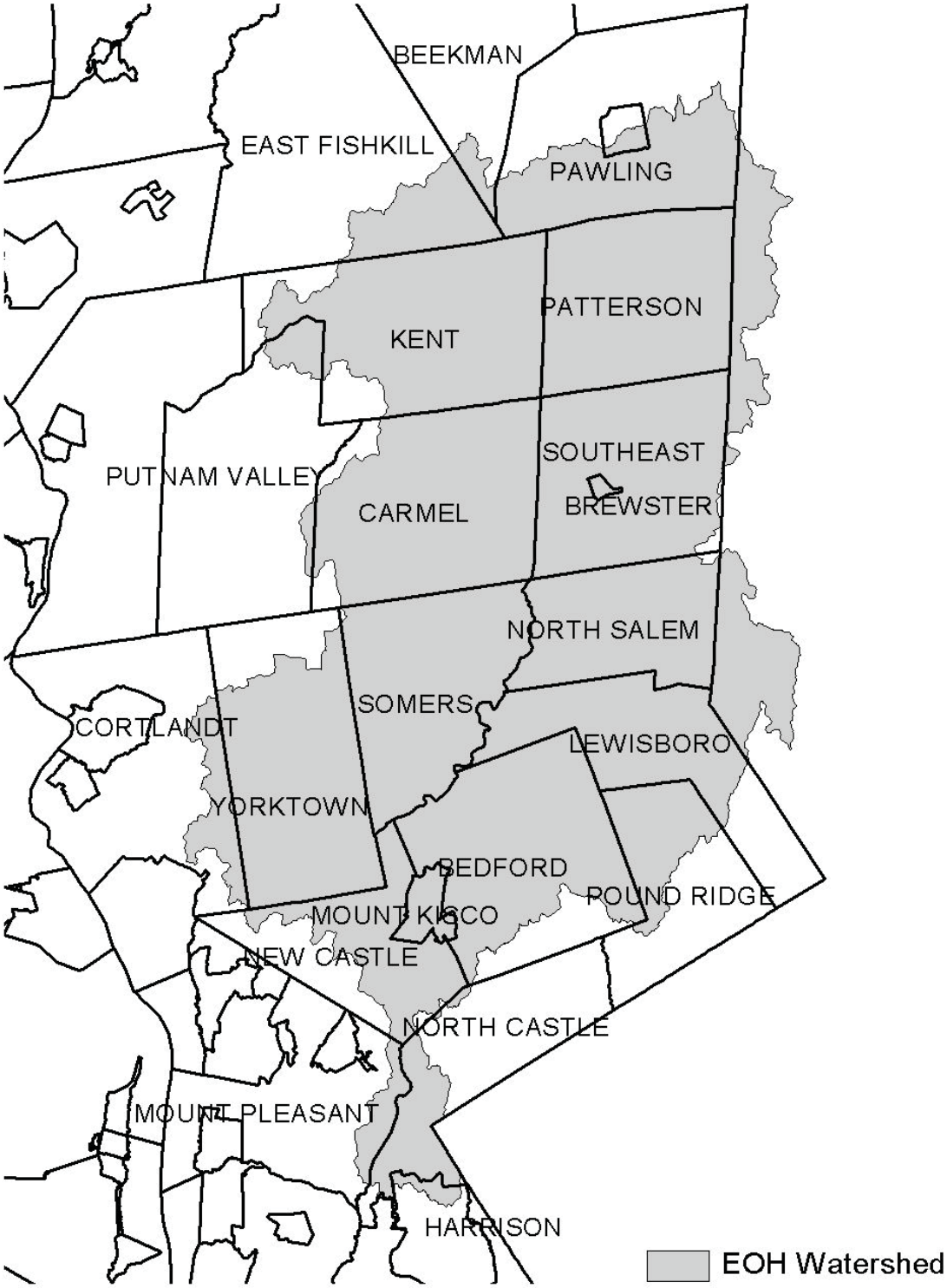
Watersheds where *owners or operators* of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual ("Design Manual").

- Entire New York City Watershed located east of the Hudson River **-** Figure 1
- Onondaga Lake Watershed **-** Figure 2
- Greenwood Lake Watershed **-**Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

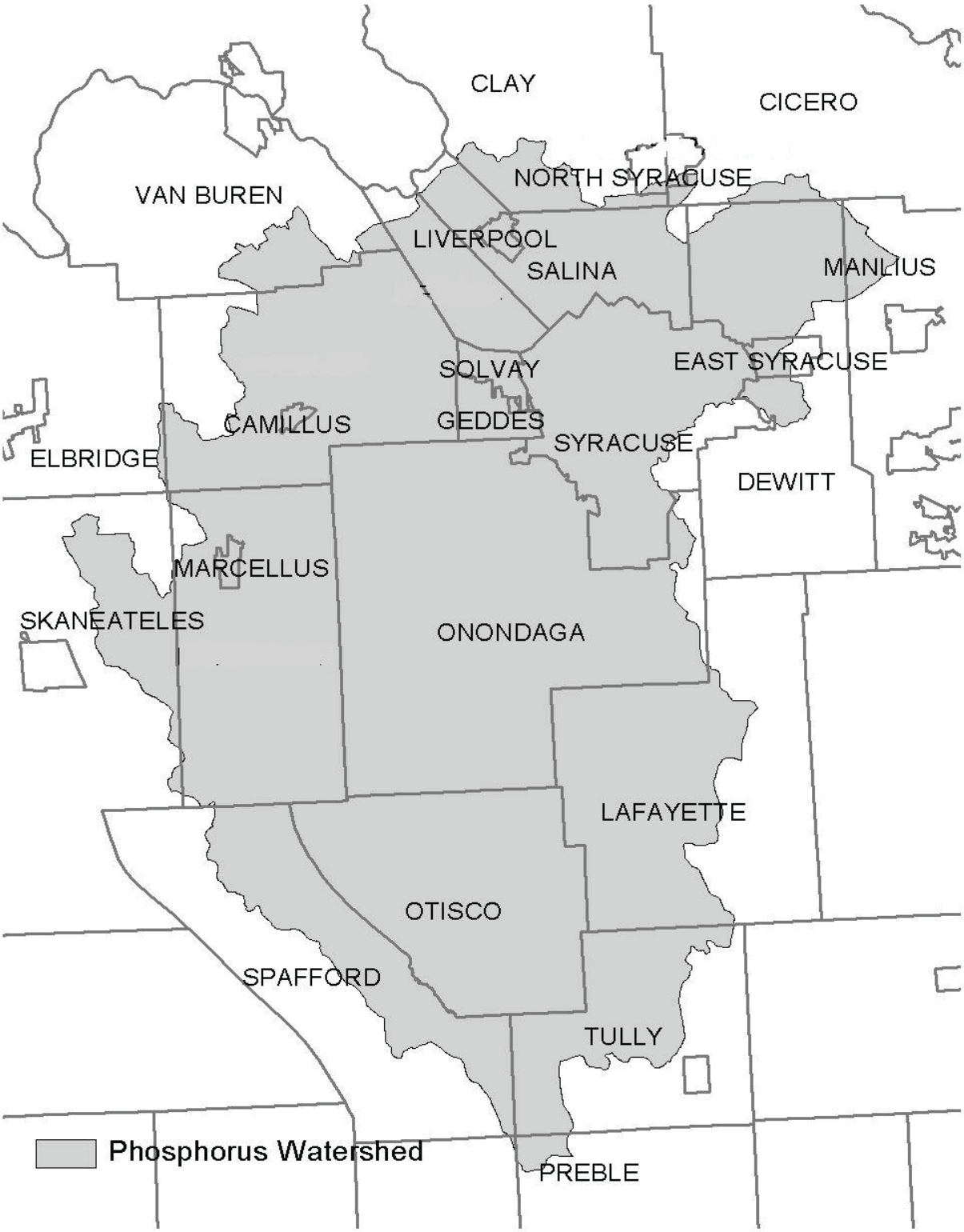
Appendix C

Figure 1 - New York City Watershed East of the Hudson



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Figure 2 - Onondaga Lake Watershed



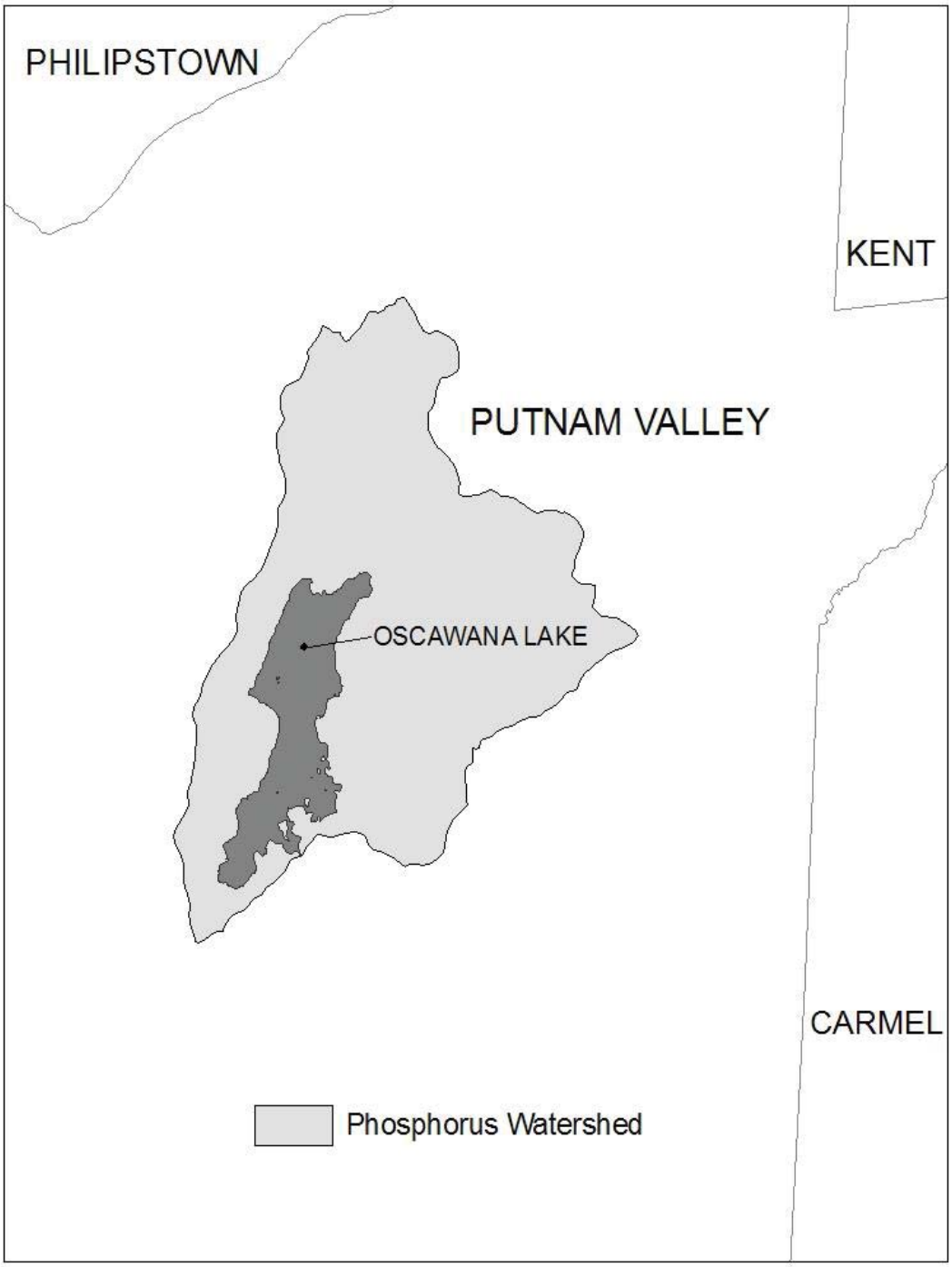
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Figure 3 - Greenwood Lake Watershed



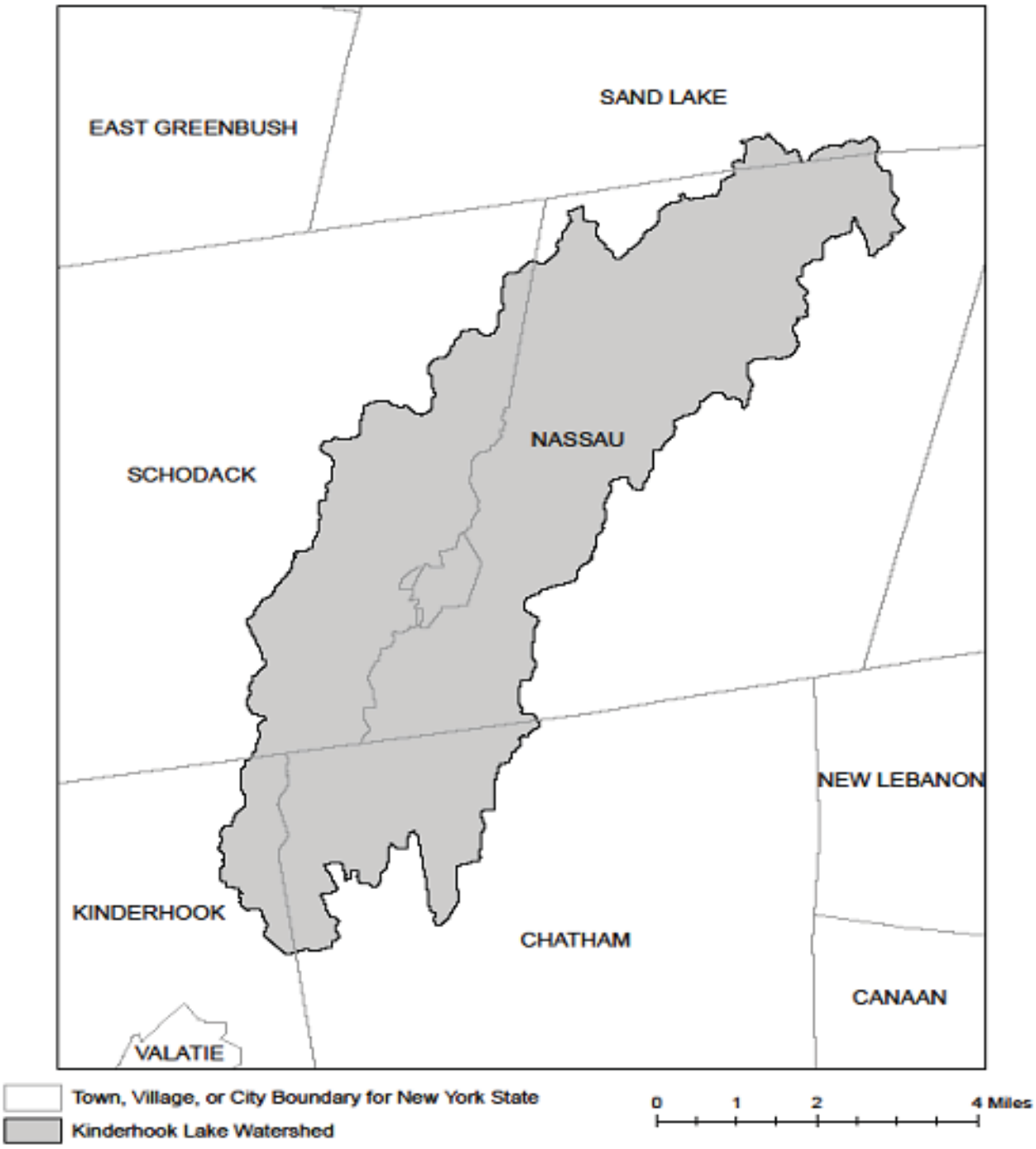
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Figure 4 - Oscawana Lake Watershed



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Figure 5 - Kinderhook Lake Watershed



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX D – Watersheds with Lower Disturbance Threshold

Watersheds where *owners or operators* of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River - See Figure 1 in Appendix C

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). The list was developed using "The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy" dated November 2016. *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	POLLUTANT
Albany	Ann Lee (Shakers) Pond, Stump Pond	Nutrients
Albany	Basic Creek Reservoir	Nutrients
Allegany	Amity Lake, Saunders Pond	Nutrients
Bronx	Long Island Sound, Bronx	Nutrients
Bronx	Van Cortlandt Lake	Nutrients
Broome	Fly Pond, Deer Lake, Sky Lake	Nutrients
Broome	Minor Tribs to Lower Susquehanna (north)	Nutrients
Broome	Whitney Point Lake/Reservoir	Nutrients
Cattaraugus	Allegheny River/Reservoir	Nutrients
Cattaraugus	Beaver (Alma) Lake	Nutrients
Cattaraugus	Case Lake	Nutrients
Cattaraugus	Linlyco/Club Pond	Nutrients
Cayuga	Duck Lake	Nutrients
Cayuga	Little Sodus Bay	Nutrients
Chautauqua	Bear Lake	Nutrients
Chautauqua	Chadakoin River and tribs	Nutrients
Chautauqua	Chautauqua Lake, North	Nutrients
Chautauqua	Chautauqua Lake, South	Nutrients
Chautauqua	Findley Lake	Nutrients
Chautauqua	Hulburt/Clymer Pond	Nutrients
Clinton	Great Chazy River, Lower, Main Stem	Silt/Sediment
Clinton	Lake Champlain, Main Lake, Middle	Nutrients
Clinton	Lake Champlain, Main Lake, North	Nutrients
Columbia	Kinderhook Lake	Nutrients
Columbia	Robinson Pond	Nutrients
Cortland	Dean Pond	Nutrients

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

303(d) Segments Impaired by Construction Related Pollutant(s)

Dutchess	Fall Kill and tribs	Nutrients
Dutchess	Hillside Lake	Nutrients
Dutchess	Wappingers Lake	Nutrients
Dutchess	Wappingers Lake	Silt/Sediment
Erie	Beeman Creek and tribs	Nutrients
Erie	Ellicott Creek, Lower, and tribs	Silt/Sediment
Erie	Ellicott Creek, Lower, and tribs	Nutrients
Erie	Green Lake	Nutrients
Erie	Little Sister Creek, Lower, and tribs	Nutrients
Erie	Murder Creek, Lower, and tribs	Nutrients
Erie	Rush Creek and tribs	Nutrients
Erie	Scajaquada Creek, Lower, and tribs	Nutrients
Erie	Scajaquada Creek, Middle, and tribs	Nutrients
Erie	Scajaquada Creek, Upper, and tribs	Nutrients
Erie	South Branch Smoke Cr, Lower, and tribs	Silt/Sediment
Erie	South Branch Smoke Cr, Lower, and tribs	Nutrients
Essex	Lake Champlain, Main Lake, South	Nutrients
Essex	Lake Champlain, South Lake	Nutrients
Essex	Willsboro Bay	Nutrients
Genesee	Bigelow Creek and tribs	Nutrients
Genesee	Black Creek, Middle, and minor tribs	Nutrients
Genesee	Black Creek, Upper, and minor tribs	Nutrients
Genesee	Bowen Brook and tribs	Nutrients
Genesee	LeRoy Reservoir	Nutrients
Genesee	Oak Orchard Cr, Upper, and tribs	Nutrients
Genesee	Tonawanda Creek, Middle, Main Stem	Nutrients
Greene	Schoharie Reservoir	Silt/Sediment
Greene	Sleepy Hollow Lake	Silt/Sediment
Herkimer	Steele Creek tribs	Silt/Sediment
Herkimer	Steele Creek tribs	Nutrients
Jefferson	Moon Lake	Nutrients
Kings	Hendrix Creek	Nutrients
Kings	Prospect Park Lake	Nutrients
Lewis	Mill Creek/South Branch, and tribs	Nutrients
Livingston	Christie Creek and tribs	Nutrients
Livingston	Conesus Lake	Nutrients
Livingston	Mill Creek and minor tribs	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs	Nutrients
Monroe	Buck Pond	Nutrients
Monroe	Cranberry Pond	Nutrients

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

303(d) Segments Impaired by Construction Related Pollutant(s)

Monroe	Lake Ontario Shoreline, Western	Nutrients
Monroe	Long Pond	Nutrients
Monroe	Mill Creek and tribs	Nutrients
Monroe	Mill Creek/Blue Pond Outlet and tribs	Nutrients
Monroe	Minor Tribs to Irondequoit Bay	Nutrients
Monroe	Rochester Embayment - East	Nutrients
Monroe	Rochester Embayment - West	Nutrients
Monroe	Shipbuilders Creek and tribs	Nutrients
Monroe	Thomas Creek/White Brook and tribs	Nutrients
Nassau	Beaver Lake	Nutrients
Nassau	Camaans Pond	Nutrients
Nassau	East Meadow Brook, Upper, and tribs	Silt/Sediment
Nassau	East Rockaway Channel	Nutrients
Nassau	Grant Park Pond	Nutrients
Nassau	Hempstead Bay	Nutrients
Nassau	Hempstead Lake	Nutrients
Nassau	Hewlett Bay	Nutrients
Nassau	Hog Island Channel	Nutrients
Nassau	Long Island Sound, Nassau County Waters	Nutrients
Nassau	Massapequa Creek and tribs	Nutrients
Nassau	Milburn/Parsonage Creeks, Upp, and tribs	Nutrients
Nassau	Reynolds Channel, west	Nutrients
Nassau	Tidal Tribs to Hempstead Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Silt/Sediment
Nassau	Tribs to Smith/Halls Ponds	Nutrients
Nassau	Woodmere Channel	Nutrients
New York	Harlem Meer	Nutrients
New York	The Lake in Central Park	Nutrients
Niagara	Bergholtz Creek and tribs	Nutrients
Niagara	Hyde Park Lake	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Oneida	Ballou, Nail Creeks and tribs	Nutrients
Onondaga	Harbor Brook, Lower, and tribs	Nutrients
Onondaga	Ley Creek and tribs	Nutrients
Onondaga	Minor Tribs to Onondaga Lake	Nutrients
Onondaga	Ninemile Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Middle, and tribs	Nutrients

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

303(d) Segments Impaired by Construction Related Pollutant(s)

Onondaga	Onondaga Lake, northern end	Nutrients
Onondaga	Onondaga Lake, southern end	Nutrients
Ontario	Great Brook and minor tribs	Silt/Sediment
Ontario	Great Brook and minor tribs	Nutrients
Ontario	Hemlock Lake Outlet and minor tribs	Nutrients
Ontario	Honeoye Lake	Nutrients
Orange	Greenwood Lake	Nutrients
Orange	Monhagen Brook and tribs	Nutrients
Orange	Orange Lake	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Oswego	Lake Neatahwanta	Nutrients
Oswego	Pleasant Lake	Nutrients
Putnam	Bog Brook Reservoir	Nutrients
Putnam	Boyd Corners Reservoir	Nutrients
Putnam	Croton Falls Reservoir	Nutrients
Putnam	Diverting Reservoir	Nutrients
Putnam	East Branch Reservoir	Nutrients
Putnam	Lake Carmel	Nutrients
Putnam	Middle Branch Reservoir	Nutrients
Putnam	Oscawana Lake	Nutrients
Putnam	Palmer Lake	Nutrients
Putnam	West Branch Reservoir	Nutrients
Queens	Bergen Basin	Nutrients
Queens	Flushing Creek/Bay	Nutrients
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Nutrients
Queens	Kissena Lake	Nutrients
Queens	Meadow Lake	Nutrients
Queens	Willow Lake	Nutrients
Rensselaer	Nassau Lake	Nutrients
Rensselaer	Snyders Lake	Nutrients
Richmond	Grasmere Lake/Bradys Pond	Nutrients
Rockland	Congers Lake, Swartout Lake	Nutrients
Rockland	Rockland Lake	Nutrients
Saratoga	Ballston Lake	Nutrients
Saratoga	Dwaas Kill and tribs	Silt/Sediment
Saratoga	Dwaas Kill and tribs	Nutrients
Saratoga	Lake Lonely	Nutrients
Saratoga	Round Lake	Nutrients
Saratoga	Tribs to Lake Lonely	Nutrients

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303(d) Segments Impaired by Construction Related Pollutant(s)

Schenectady	Collins Lake	Nutrients
Schenectady	Duane Lake	Nutrients
Schenectady	Mariaville Lake	Nutrients
Schoharie	Engleville Pond	Nutrients
Schoharie	Summit Lake	Nutrients
Seneca	Reeder Creek and tribs	Nutrients
St.Lawrence	Black Lake Outlet/Black Lake	Nutrients
St.Lawrence	Fish Creek and minor tribs	Nutrients
Steuben	Smith Pond	Nutrients
Suffolk	Agawam Lake	Nutrients
Suffolk	Big/Little Fresh Ponds	Nutrients
Suffolk	Canaan Lake	Silt/Sediment
Suffolk	Canaan Lake	Nutrients
Suffolk	Flanders Bay, West/Lower Sawmill Creek	Nutrients
Suffolk	Fresh Pond	Nutrients
Suffolk	Great South Bay, East	Nutrients
Suffolk	Great South Bay, Middle	Nutrients
Suffolk	Great South Bay, West	Nutrients
Suffolk	Lake Ronkonkoma	Nutrients
Suffolk	Long Island Sound, Suffolk County, West	Nutrients
Suffolk	Mattituck (Marratooka) Pond	Nutrients
Suffolk	Meetinghouse/Terrys Creeks and tribs	Nutrients
Suffolk	Mill and Seven Ponds	Nutrients
Suffolk	Millers Pond	Nutrients
Suffolk	Moriches Bay, East	Nutrients
Suffolk	Moriches Bay, West	Nutrients
Suffolk	Peconic River, Lower, and tidal tribs	Nutrients
Suffolk	Quantuck Bay	Nutrients
Suffolk	Shinnecock Bay and Inlet	Nutrients
Suffolk	Tidal tribs to West Moriches Bay	Nutrients
Sullivan	Bodine, Montgomery Lakes	Nutrients
Sullivan	Davies Lake	Nutrients
Sullivan	Evens Lake	Nutrients
Sullivan	Pleasure Lake	Nutrients
Tompkins	Cayuga Lake, Southern End	Nutrients
Tompkins	Cayuga Lake, Southern End	Silt/Sediment
Tompkins	Owasco Inlet, Upper, and tribs	Nutrients
Ulster	Ashokan Reservoir	Silt/Sediment
Ulster	Esopus Creek, Upper, and minor tribs	Silt/Sediment
Warren	Hague Brook and tribs	Silt/Sediment

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303(d) Segments Impaired by Construction Related Pollutant(s)

Warren	Huddle/Finkle Brooks and tribs	Silt/Sediment
Warren	Indian Brook and tribs	Silt/Sediment
Warren	Lake George	Silt/Sediment
Warren	Tribs to L.George, Village of L George	Silt/Sediment
Washington	Cossayuna Lake	Nutrients
Washington	Lake Champlain, South Bay	Nutrients
Washington	Tribs to L.George, East Shore	Silt/Sediment
Washington	Wood Cr/Champlain Canal and minor tribs	Nutrients
Wayne	Port Bay	Nutrients
Westchester	Amawalk Reservoir	Nutrients
Westchester	Blind Brook, Upper, and tribs	Silt/Sediment
Westchester	Cross River Reservoir	Nutrients
Westchester	Lake Katonah	Nutrients
Westchester	Lake Lincolndale	Nutrients
Westchester	Lake Meahagh	Nutrients
Westchester	Lake Mohegan	Nutrients
Westchester	Lake Shenorock	Nutrients
Westchester	Long Island Sound, Westchester (East)	Nutrients
Westchester	Mamaroneck River, Lower	Silt/Sediment
Westchester	Mamaroneck River, Upper, and minor tribs	Silt/Sediment
Westchester	Muscoot/Upper New Croton Reservoir	Nutrients
Westchester	New Croton Reservoir	Nutrients
Westchester	Peach Lake	Nutrients
Westchester	Reservoir No.1 (Lake Isle)	Nutrients
Westchester	Saw Mill River, Lower, and tribs	Nutrients
Westchester	Saw Mill River, Middle, and tribs	Nutrients
Westchester	Sheldrake River and tribs	Silt/Sediment
Westchester	Sheldrake River and tribs	Nutrients
Westchester	Silver Lake	Nutrients
Westchester	Teatown Lake	Nutrients
Westchester	Titicus Reservoir	Nutrients
Westchester	Truesdale Lake	Nutrients
Westchester	Wallace Pond	Nutrients
Wyoming	Java Lake	Nutrients
Wyoming	Silver Lake	Nutrients

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX F – List of NYS DEC Regional Offices

Region	Covering the following counties:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) Permit Administrators	DIVISION OF WATER (DOW) Water (SPDES) Program
1	Nassau and Suffolk	50 Circle Road Stony Brook, NY 11790 Tel. (631) 444-0365	50 Circle Road Stony Brook, NY 11790-3409 Tel. (631) 444-0405
2	Bronx, Kings, New York, Queens and Richmond	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4997	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4933
3	Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester	21 South Putt Corners Road New Paltz, NY 12561-1696 Tel. (845) 256-3059	100 Hillside Avenue, Suite 1w White Plains, NY 10603 Tel. (914) 428 - 2505
4	Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie	1150 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2069	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2045
5	Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington	1115 State Route 86, Po Box 296 Ray Brook, NY 12977-0296 Tel. (518) 897-1234	232 Golf Course Road Warrensburg, NY 12885-1172 Tel. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7070

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Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix F

Forms

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-20-001)

Project/Site Name: Proposed Warehouse Development

eNOI Submission Number: _____

eNOI Submitted by: ☐ **Owner/Operator** ☑ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

KEVIN — Owner/Operator First Name

J — M.I.

STEPHENS — Last Name

Signature

11/20/24

Date

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges From Construction Activity (GP-0-20-001)

Project Site Information

Project/Site Name

Proposed Warehouse Buildings

Owner/Operator Information

Owner/Operator (Company Name/Private Owner/Municipality Name)

Stephens Property Holdings, LLC/Kevin Stephens/Amherst

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Christopher		Wood
First name	MI	Last Name

Signature

11/20/2024

Date

Revised: January 2020

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

STORM WATER POLLUTION PREVENTION PLAN
CONTRACTOR'S CERTIFICATION STATEMENT

Warehouse Development

CONTRACTOR'S CERTIFICATION:

"I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP for the construction site identified in such SWPPP as a condition of authorization to discharge storm water. I also understand that the operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System (SPDES) general permit for storm water discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards."

Note: The contractor shall have at least one NYSDEC trained individual onsite at all times when earthwork and other SWPPP associated work is being performed from each contractor(s) and subcontractor(s). Each contractor(s) and subcontractor(s) shall provide copies of these individuals' certifications to the Town of Amherst.

Name: _____
(Print)

Signature: _____

Title: _____

Company Name: _____

Address: _____

Telephone Number: _____

Date: _____

Scope of Services: _____

Trained Individual(s) Responsible for Implementation: _____

This form must be signed by a responsible corporate officer or other party meeting the "Signatory Requirements" of the NYSDEC SPDES General Permit

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix G

NYSDEC Notice of Termination (NOT)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505
(NOTE: Submit completed form to address above)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity

Please indicate your permit identification number: NYR ___ ___ ___ ___ ___ ___

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person: | 4a.Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. □ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. ***Date final stabilization completed** (month/year): _____

9b. □ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR ___ ___ ___ ___ ___ ___
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. □ Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? □ yes □ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? □ yes □ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

_____

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? □ yes □ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

□ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.

□ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).

□ For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.

□ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____ (acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? □ yes □ no

(If Yes, complete section VI - "MS4 Acceptance" statement

V. Additional Information/Explanation:

(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:	
Title/Position:	
Signature:	Date:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

VII. Qualified Inspector Certification - Final Stabilization:

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

IX. Owner or Operator Certification

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

(NYS DEC Notice of Termination - January 2015)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix H

Construction Documents

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Proposed Warehouse Buildings

Amherst, New York

AGENCIES

ENGINEERING DEPARTMENT
NAME/TITLE: JEFFERY BURROUGHS, P.E. – TOWN ENGINEER
COMPANY/DEPT: TOWN OF AMHERST ENGINEERING DEPARTMENT
ADDRESS: 1100 NORTH FOREST ROAD
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7154

PLANNING & ZONING DEPARTMENT
NAME/TITLE: DANIEL HOWARD – PLANNING DIRECTOR
COMPANY/DEPT: TOWN OF AMHERST PLANNING DEPARTMENT
ADDRESS: 5583 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7051

BUILDING DEPT.
NAME/TITLE: BERKE, MARK S. – COMMISSIONER OF BUILDING
COMPANY/DEPT.: TOWN OF AMHERST BUILDING DEPT.
ADDRESS: 5583 MAIN ST.
AMHERST, NEW YORK 14221
TELEPHONE 716–631–7080

ECDOH
NAME/TITLE:
COMPANY/DEPT:. ERIE COUNTY DEPARTMENT OF HEALTH
ADDRESS: 503 KENSINGTON AVE
BUFFALO, NEW YORK 14214
TELEPHONE 716–961–6854

NYSDEC
NAME/TITLE:
COMPANY/DEPT: NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
ADDRESS: 700 DELAWARE AVE.
BUFFALO, NEW YORK 14209
TELEPHONE 716–851–7070

UTILITIES

NATURAL GAS
COMPANY/DEPT:. NATIONAL FUEL GAS CORP.
ADDRESS: 6363 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–857–7000

TELEPHONE COMPANY
COMPANY/DEPT: VERIZON
ADDRESS: 65 FRANKLIN STREET
BUFFALO, NEW YORK 14203
TELEPHONE 716–840–8748

CABLE COMPANY
COMPANY/DEPT: TIME WARNER
ADDRESS: 789 CHURCH ROAD
WEST SENECA, NEW YORK
TELEPHONE 716–558–8615

ELECTRIC COMPANY
COMPANY/DEPT: NATIONAL GRID
ADDRESS: 144 KENSINGTON AVENUE
BUFFALO, NEW YORK 14214
TELEPHONE 716–236–2738

WATER
COMPANY/DEPT:. ERIE COUNTY WATER AUTHORITY
ADDRESS: 3030 UNION ROAD
CHEEKTOWAGA, NEW YORK 14227
TELEPHONE 716–684–1510

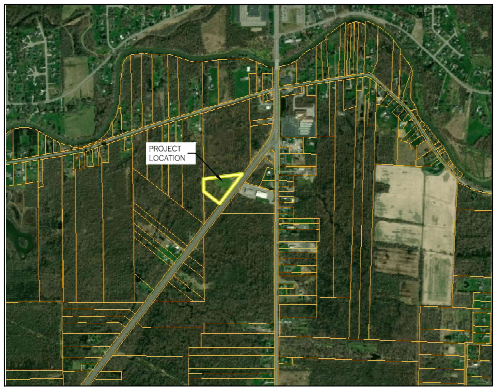
DIG SAFELY NEW YORK
TELEPHONE 1–800–962–7962

DESIGN CONSULTANTS

PROJECT SURVEYOR
NAME/TITLE:
COMPANY/DEPT:. GPI ENGINEERING, LANDSCAPE, ARCHITECTURE & SURVEYING, LLP
ADDRESS: 4950 GENESEE STREET, SUITE 100
BUFFALO, NEW YORK 14225
TELEPHONE 716–633–4844

OWNER/DEVELOPER

NAME: STEPHENS PLUMBING
ADDRESS 5500 MILLERSPORT HIGHWAY
EAST AMHERST, NY 14051
CONTACT: KEVIN STEPHENS
TELEPHONE 716-512-9451



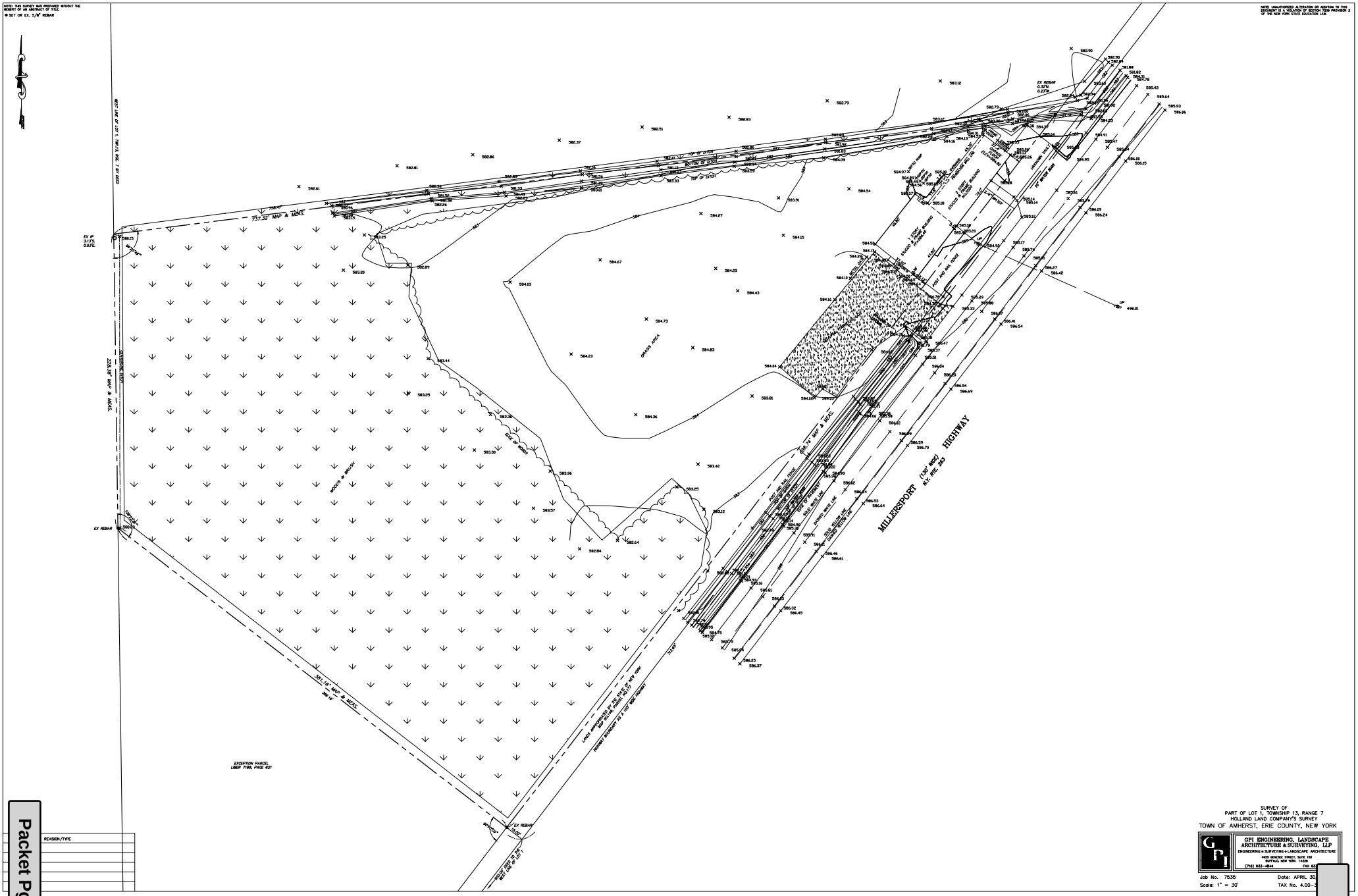
CARMINAWOOD DESIGN

DRAWING NO.	DRAWING TITLE
–	COVER SHEET
–	LAND SURVEY (PREPARED BY GPI ENGINEERING)
C–001	EROSION CONTROL PLAN
C–002	EROSION CONTROL DETAILS
C–100	SITE PLAN
C–101	SITE DETAILS
C–200	GRADING PLAN
C–300	STORM DRAINAGE PLAN
C–301	BASIN DETAILS
C–302	STORM DRAINAGE DETAILS
C–400	UTILITY PLAN
C–401	UTILITY DETAILS
C–402	UTILITY DETAILS
C–403	UTILITY DETAILS
C–404	UTILITY DETAILS
L–100	LANDSCAPE PLAN
L–101	LANDSCAPE DETAILS
LP–100	LIGHTING PLAN

November 2024

Proposed Warehouse Buildings
Amherst, New York

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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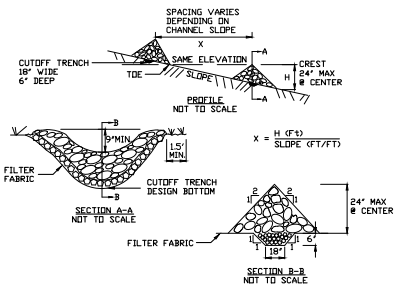


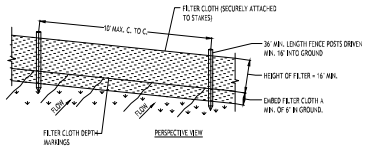
CONSTRUCTION SPECIFICATIONS

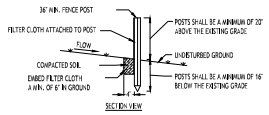
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

STONE CHECK DAM DETAIL

NOT TO SCALE



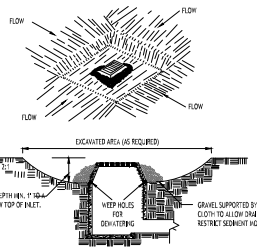


CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER 'T' OR 'U' TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE



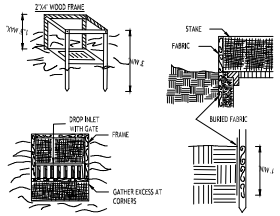
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



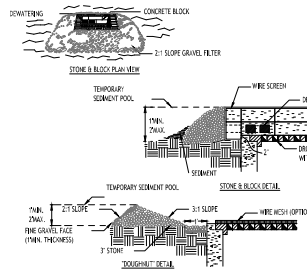
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE WATERMILS WILL BE STANDARD 2' x 4' WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



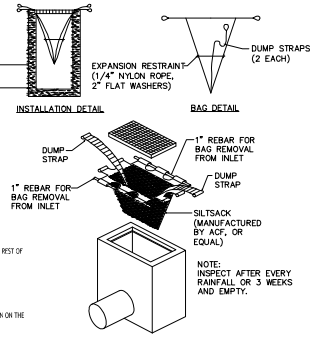
CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

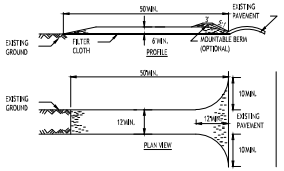
NOT TO SCALE



SILT SACK DETAIL

NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION

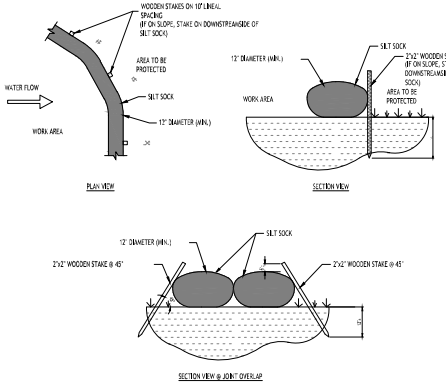


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



NOTES:

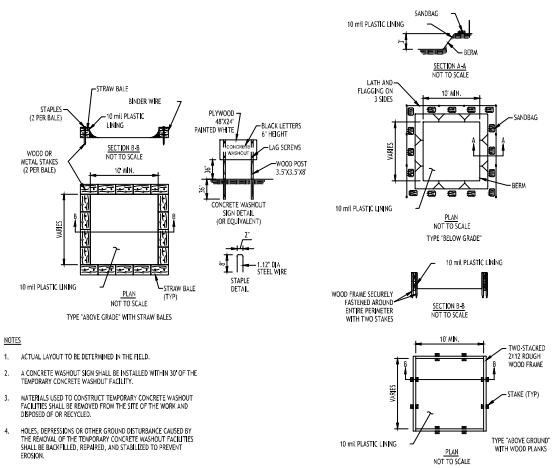
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

SILT SOCK DETAIL

NOT TO SCALE



CONCRETE WASHOUT DETAIL

NOT TO SCALE

NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date

DRAWING NAME:

Demolition & Erosion Control Details

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

C-003

Project No:

1.a

Packet Pg. 261

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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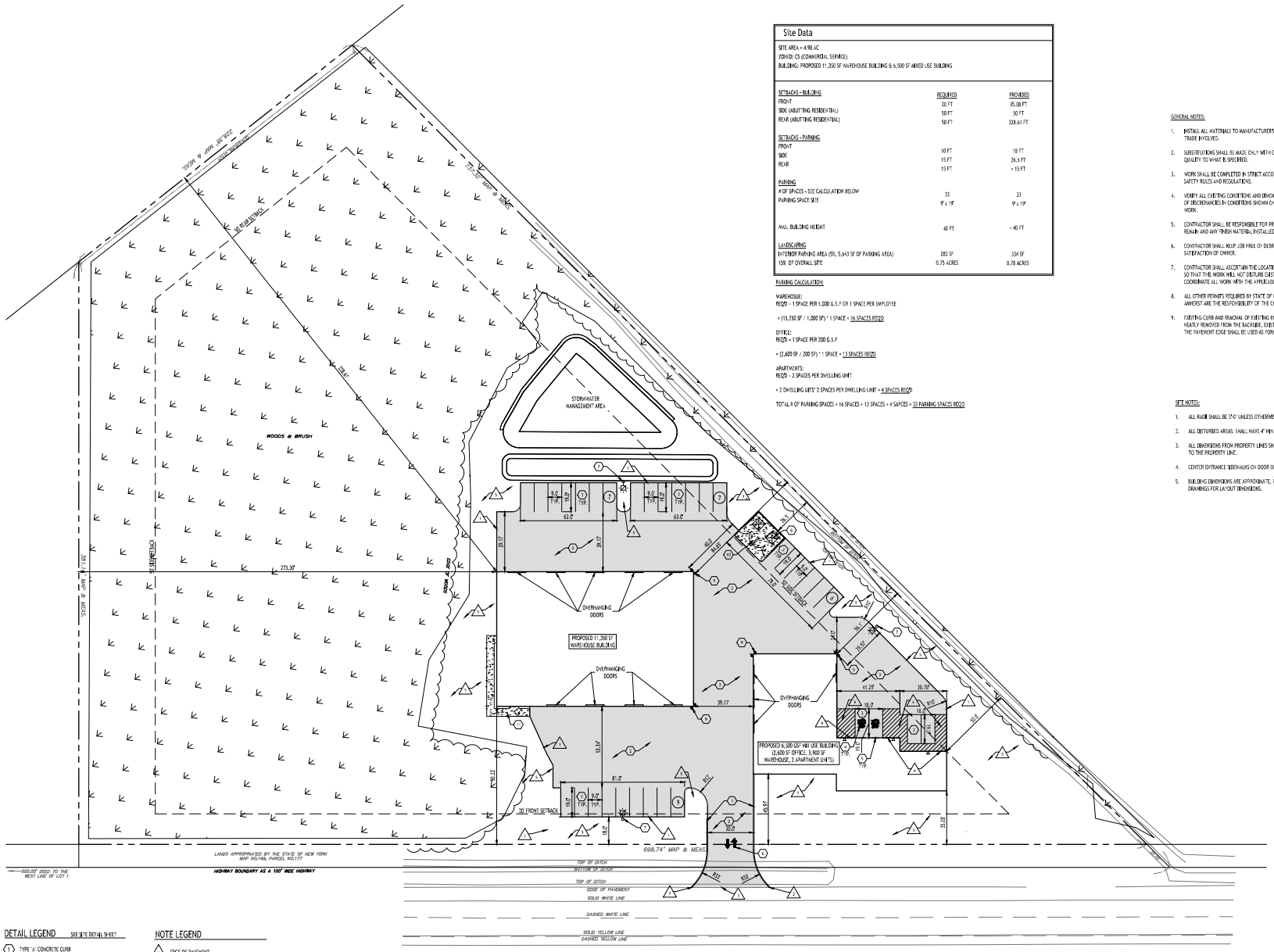

Site Data

SITE AREA = 4.98 AC
ZONED: CS (COMMERCIAL SERVICE)
BUILDING: PROPOSED 11,350 SF WAREHOUSE BUILDING & 6,500 SF MIXED USE BUILDING

	REQUIRED	PROVIDED
SETBACKS - BUILDING		
FRONT	30 FT	35.08 FT
SIDE (ABUTTING RESIDENTIAL)	50 FT	50 FT
REAR (ABUTTING RESIDENTIAL)	50 FT	328.61 FT
SETBACKS - PARKING		
FRONT	10 FT	18 FT
SIDE	15 FT	26.3 FT
REAR	15 FT	> 15 FT
PARKING		
# OF SPACES - SEE CALCULATION BELOW	33	33
PARKING SPACE SIZE	9' x 19'	9' x 19'
MAX. BUILDING HEIGHT	40 FT	< 40 FT
LANDSCAPING		
INTERIOR PARKING AREA (5%, 5,643 SF OF PARKING AREA)	282 SF	334 SF
15% OF OVERALL SITE	0.75 ACRES	0.78 ACRES

PARKING CALCULATION:

WAREHOUSE:
REQ'D - 1 SPACE PER 1,000 G.S.F OR 1 SPACE PER EMPLOYEE

= (11,250 SF / 1,000 SF) * 1 SPACE = 16 SPACES REQ'D

OFFICE:
REQ'D = 1 SPACE PER 200 G.S.F

= (2,600 SF / 200 SF) * 1 SPACE = 13 SPACES REQ'D

APARTMENTS:
REQ'D - 2 SPACES PER DWELLING UNIT

= 2 DWELLING UITS* 2 SPACES PER DWELLING UNIT = 4 SPACES REQ'D

TOTAL # OF PARKING SPACES = 16 SPACES + 13 SPACES + 4 SAPCES = 33 PARKING SPACES REQ'D

GENERAL NOTES:

1. INSTALL ALL MATERIALS TO MANUFACTURERS RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
2. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNERS APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
3. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
4. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
6. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THE WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.
9. EXISTING CURB AND REMOVAL OF EXISTING ENTRANCE SHALL BE SAW CUT FULL-DEPTH AND NEATLY REMOVED FROM THE BACKSIDE, EXISTING PAVEMENT SHALL NOT BE DISTURBED AND THE PAVEMENT EDGE SHALL BE USED AS FORM FOR PLACING NEW CURB.

SITE NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS: SHALL HAVE 4" MIN. OF TOPSOIL AND SEED.
3. ALL DIMENSIONS FROM PROPERTY LINES SHALL BE MEASURED PERPENDICULAR TO THE PROPERTY LINE.
4. CENTER ENTRANCE SIDEWALKS ON DOOR OPENINGS.
5. BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.

SITE LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED SIDEWALK / CONCRETE PAD
- NUMBER OF PARKING SPACES (33)
- PROPOSED SIGN
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED LIGHT POLE
- PROPOSED WALL MOUNTED LIGHT

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

DETAIL LEGEND (SEE SITE DETAIL SHEET)

1. TYPE 'A' CONCRETE CURB
2. STANDARD DUTY ASPHALT
3. 90° PARKING STALL
4. HANDICAPPED PAVEMENT MARKINGS
5. HANDICAPPED PARKING SIGN, MOUNTED ON BUILDING
6. PAINTED TRAFFIC ARROWS
7. LIGHT POLE FOUNDATION
8. DUMPSTER ENCLOSURE
9. PIPE BOLLARDS
10. EXTERIOR CONCRETE SLAB-ON-GRADE
11. CONCRETE SIDEWALK

NOTE LEGEND

1. EDGE OF PAVEMENT
2. RUNOUT CURB IN 2' OR MATCH EXISTING CURB
3. SAWCUT LINE, MATCH EXISTING EDGE OF PAVEMENT
4. INSTALL 'NO PARKING' SIGN, M.U.T.C.D. SIGN NO. P1-1C
5. LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
6. 4" WIDE WHITE PAVEMENT STRIPES @ 2' O.C. & @ 45° TO PARKING LINES

N Site Plan
SCALE: 1"=30'

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Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date:

Scott J 11/20/2024

DRAWING NAME:
Site Plan
Concept

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-100

Project No:

1.a

Packet Pg. 262

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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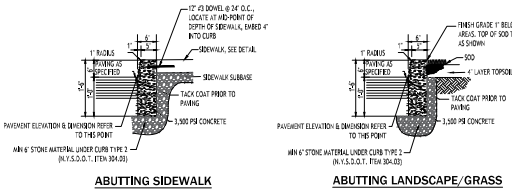
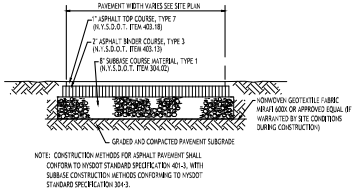


ABUTTING SIDEWALK

ABUTTING LANDSCAPE/GRASS

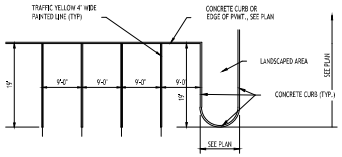
NOTES:
1. CONTROL JOINTS TO BE 3" DEEP AT 15'-0" O.C. - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 703-0700.
2. WHERE THE CURB SHOWS (BITUMINOUS) WITH ASPHALT) THE DEPTH OF CURB BELOW GRADE SHALL BE INCREASED TO 7'-0" AND OTHER DIMENSIONS ADJUSTED ACCORDINGLY.

TYPE "A" CONCRETE CURB - 1

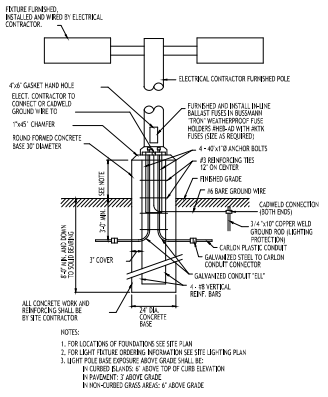


NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

STANDARD DUTY ASPHALT SECTION - 2

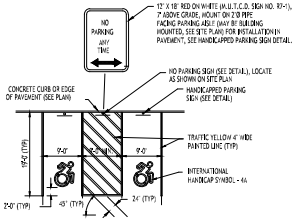


90° PARKING STALL LAYOUT - 3

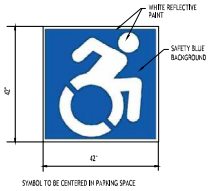


NOTES:
1. FOR LOCATIONS OF FOUNDATIONS SEE SITE PLAN
2. FOR LIGHT FIXTURE ORDERING INFORMATION SEE SITE LIGHTING PLAN
3. LIGHT POLE BASE EXPOSURE ABOVE GRADE SHALL BE:
   IN CURBED ISLANDS: 6" ABOVE TOP OF CURB ELEVATION
   IN PAVEMENT: 3" ABOVE GRADE
   IN NON-CURBED GRASS AREAS: 6" ABOVE GRADE

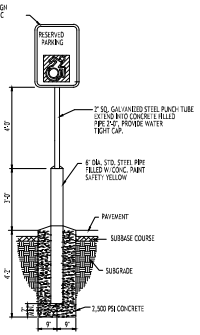
LIGHT POLE FOUNDATION - 7



HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 4

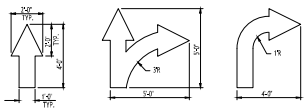


INTERNATIONAL HANDICAP SYMBOL - 4A

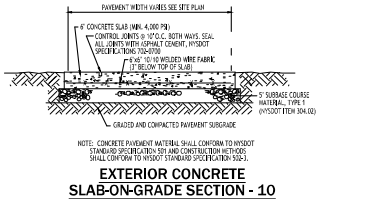


HANDICAPPED PARKING SIGN - 5

INSTALLED IN PAVEMENT

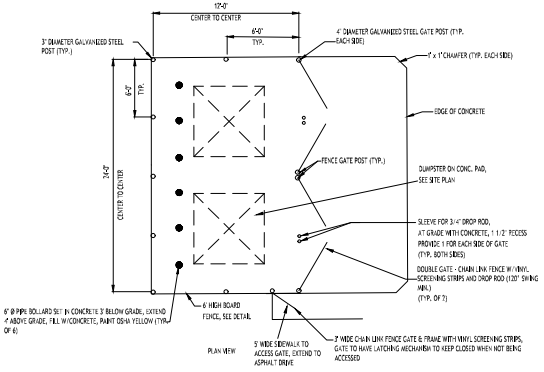


PAINTED TRAFFIC ARROWS - 6

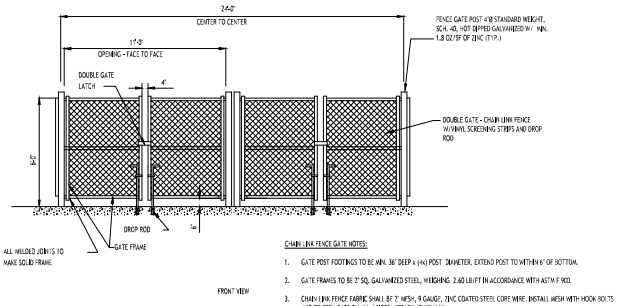


NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-2.

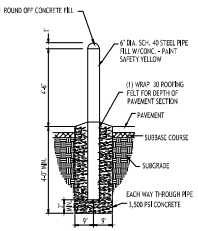
EXTERIOR CONCRETE SLAB-ON-GRADE SECTION - 10



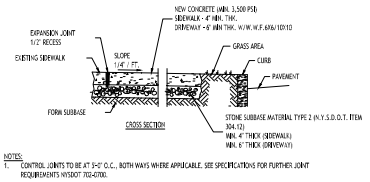
DUMPSTER ENCLOSURE - 8



CHAIN LINK FENCE GATE NOTES:
1. GATE POST FOOTINGS TO BE MIN. 36" DEEP x (4x) POST DIAMETER, EXTEND POST TO WITHIN 6" OF BOTTOM.
2. GATE FRAMES TO BE 2" SQ. GALVANIZED STEEL, WEIGHING 2.60 LB/FT IN ACCORDANCE WITH ASTM F 900.
3. CHAIN LINK FENCE FABRIC SHALL BE 2" MESH, 9 GAUGE, ZINC COATED STEEL CORE WIRE. INSTALL MESH WITH HOOK BOLTS AND TENSION BARS ON ALL 4 SIDES, ATTACH AT 15" MAX.
4. DOUBLE GATE LATCH TO BE FORKED TYPE CAPABLE OF RETAINING GATE IN CLOSED POSITION AND HAVE PROVISION FOR PAD LOCK. LATCH SHALL BE OPERABLE FROM EITHER SIDE OF GATE.
5. ALL HARDWARE TO BE HOT DIPPED GALVANIZED STEEL TO SUIT GATE SIZE.



PIPE BOLLARD - 9



NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTH WAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3.
3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE, PROVIDE CONTINUOUS STONE PATH TO CURB UNDERDRAIN WHERE PROVIDED.
4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB.
6. INSTALL 6" LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN ENTRANCE. THICKEN SIDEWALK TO 6' AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6" DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE.
7. INSTALL 1/2" PREMOLDED EXPANSION JOINT WITH BACKER ROD & SEALANT WHERE SIDEWALK ABUTS BUILDING OR OTHER STRUCTURE.

CONCRETE SIDEWALK - 11

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5500 Millersport Highway
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REVISIONS:
No. Description Date:

DRAWING NAME:
Site Details

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-101

Project No:

1.a

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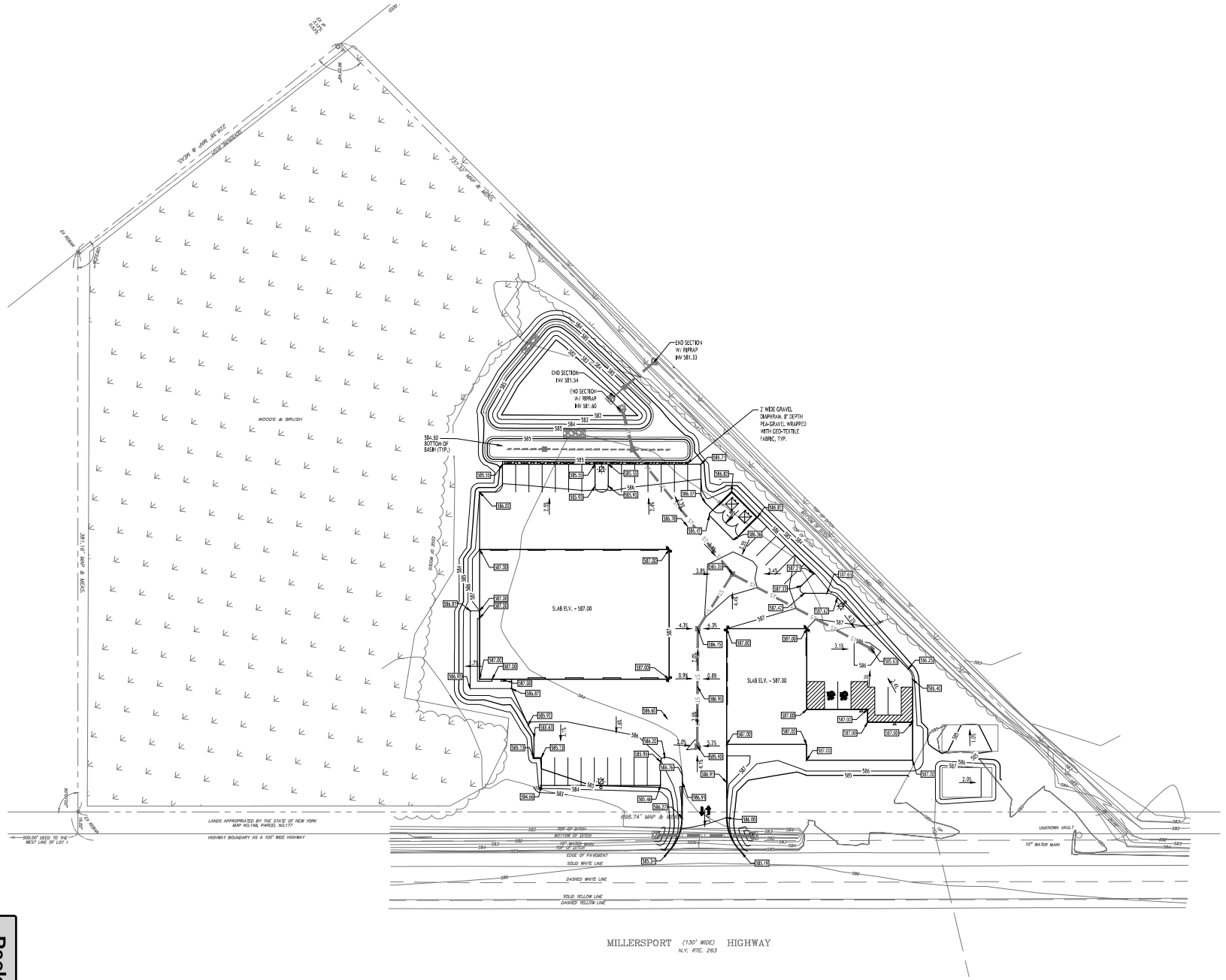

N Grading Plan
SCALE: 1"=30'

PROPOSED GRADING LEGEND

PROPOSED CONTOUR	101
PROPOSED SPOT ELEVATION	100.80
PROPOSED TOP/BOTTOM OF CURB ELEV.	TC 100.50 BC 100.00
PROPOSED CATCH BASIN	CB
PAVEMENT/GROUND SLOPE	

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30' 30 0 30 60Ft.

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Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date

STATE OF NEW YORK R. CHRISTOPHER WOOD 076394 LICENSED PROFESSIONAL ENGINEER
Sealed 11/20/2024

DRAWING NAME:
Grading Plan

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-200

Project No:

1.a

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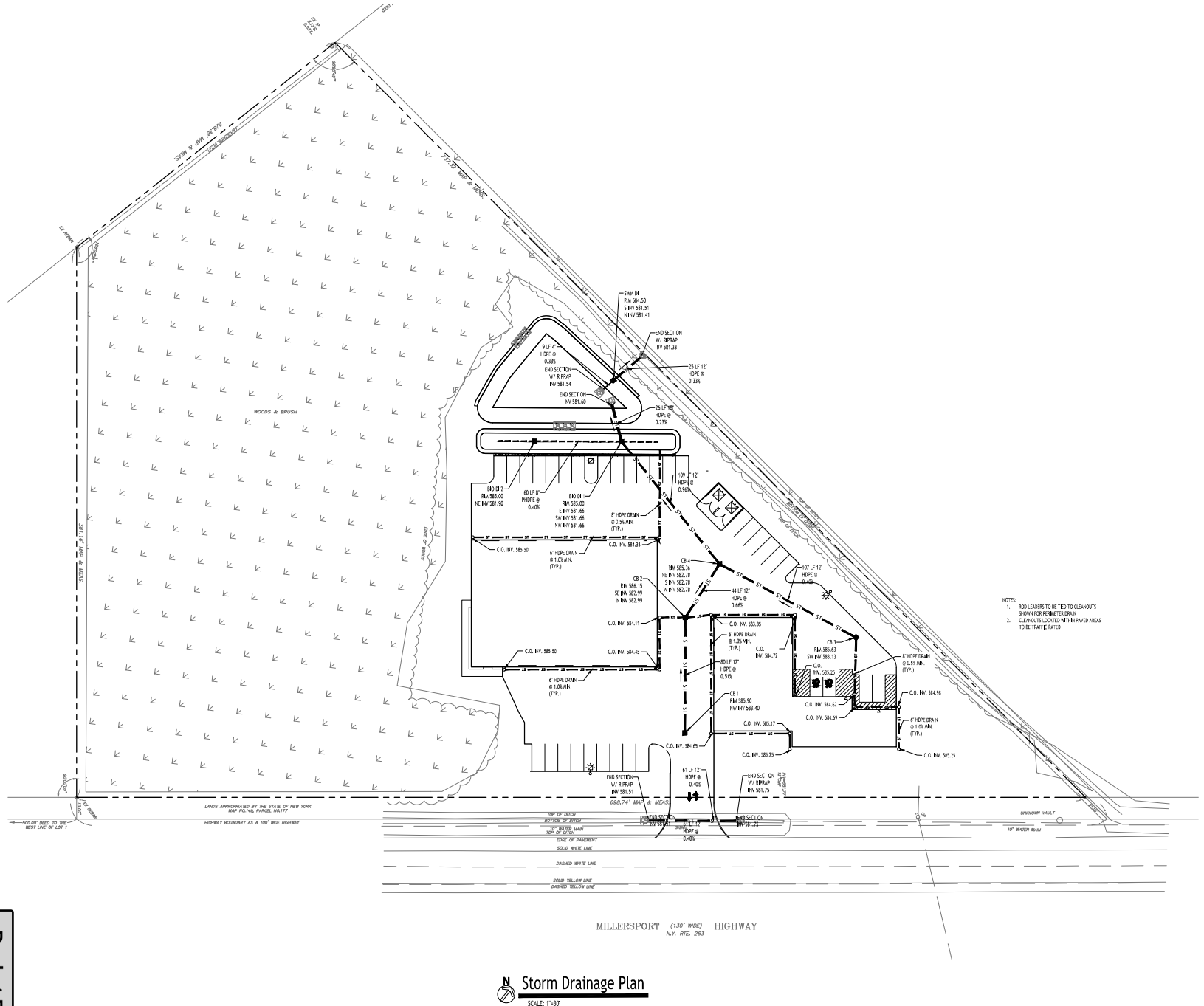

N Storm Drainage Plan
SCALE: 1"=30'

PROPOSED STORM/UTILITY LEGEND

PROPOSED STORM SEWER	ST
PROPOSED SANITARY SEWER	6" SA
PROPOSED WATERLINE	1" W
PROPOSED CATCH BASIN	CB
SELECT FILL	
PROPOSED GATE VALVE	GV

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6' WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 10 0 30 60Ft

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Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date

STATE OF NEW YORK — CHRISTOPHER M. BAKER — 075304 — LICENSED PROFESSIONAL ENGINEER

Scale:1:1/20/2024

DRAWING NAME:
Storm Drainage Plan

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-300

Project No:

1.a

Packet Pg. 265

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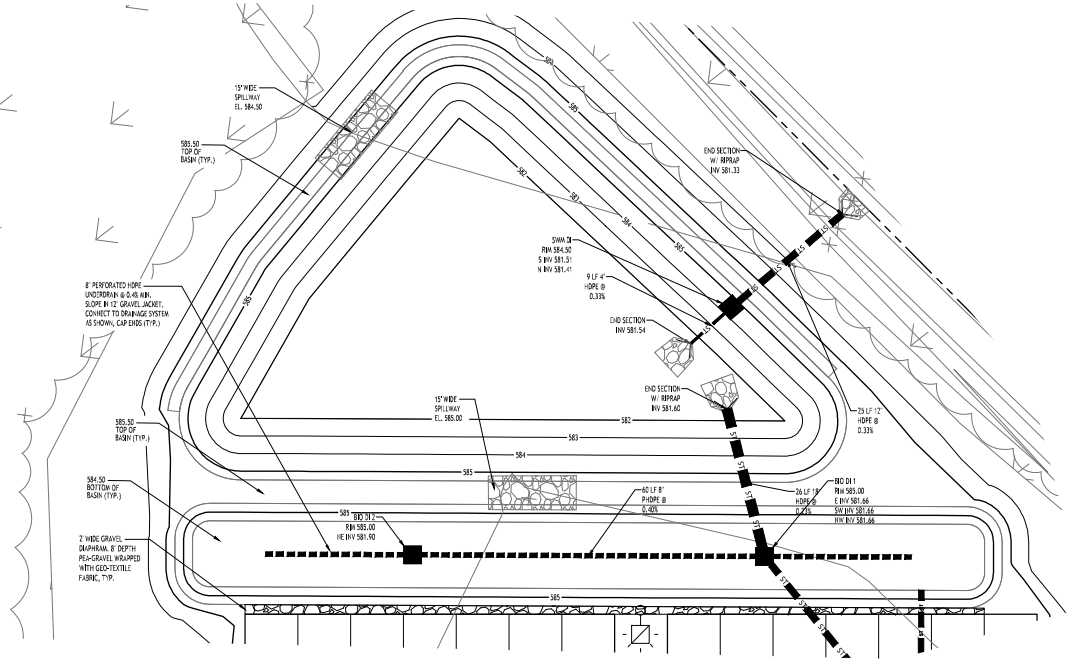
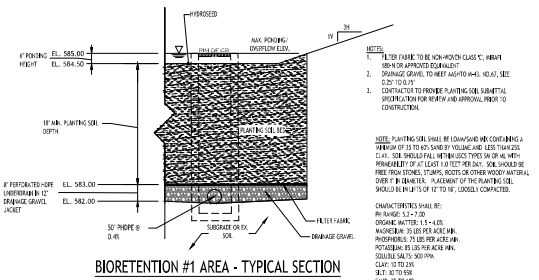


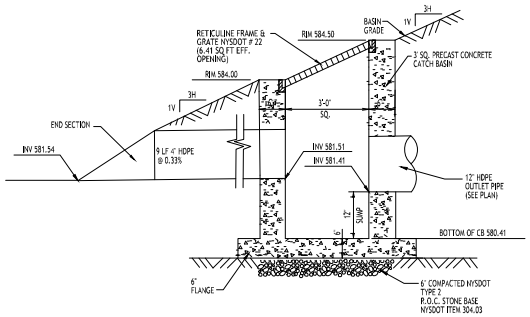
Detention Basin Plan
SCALE: 1"=10'



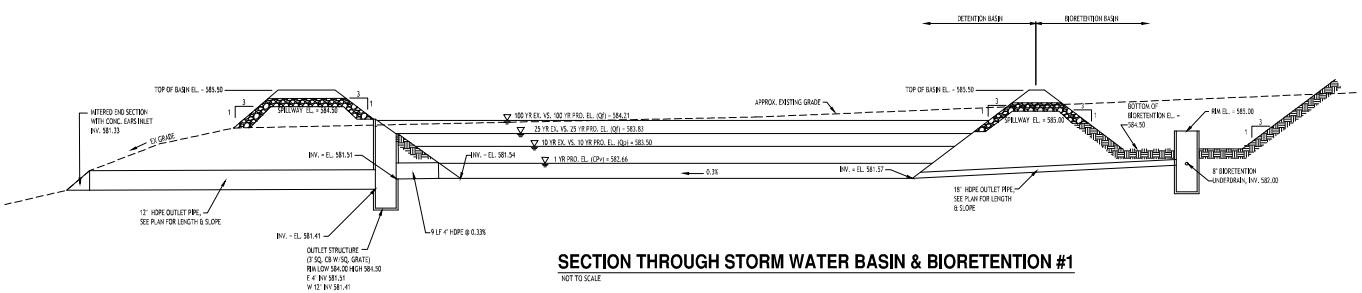
BIORETENTION #1 AREA - TYPICAL SECTION

BIO-RETENTION AREA SEEDING SPEC (Northeast Wetland Grass Seed Mix):

Seed Mixture	Variety	Percent by No. of Seeds
Creeping Bentgrass	Agrostis stolonifera	50.0
Rough Bluegrass	Poa trivialis	17.0
Meadow Foxtail	Alopecurus arundinaceus	11.0
Annual Ryegrass	Lolium multiflorum	4.5
Deertongue	Panicum clandestinum	4.5



RETENTION BASIN OUTLET STRUCTURE - SWM 1 DI
N.T.S.



SECTION THROUGH STORM WATER BASIN & BIORETENTION #1
NOT TO SCALE

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5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date

DRAWING NAME:
Basin Details

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-301

Project No:

1.a

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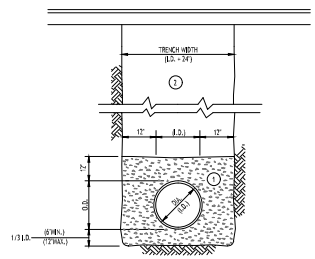


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

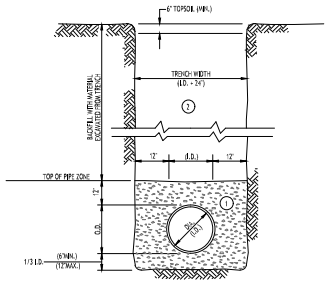
1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

2. TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 "TYPE 2". THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

STORM SEWER TRENCH SECTION
IN PAVED AREAS
NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

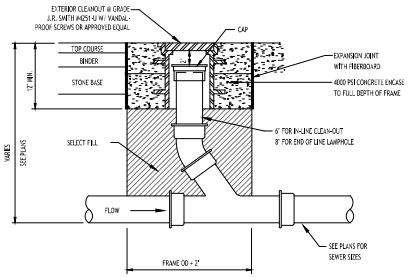
PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

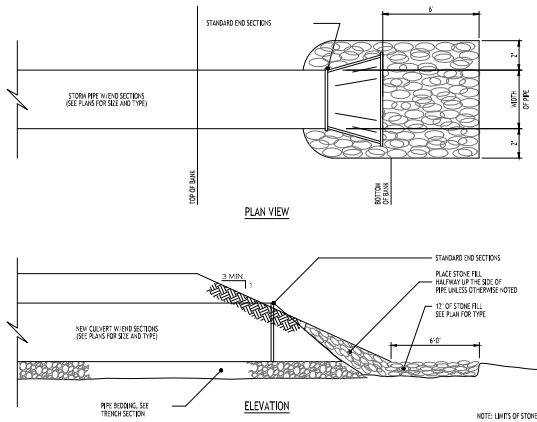
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

2. BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

STORM SEWER TRENCH SECTION
IN UNPAVED AREAS
NOT TO SCALE

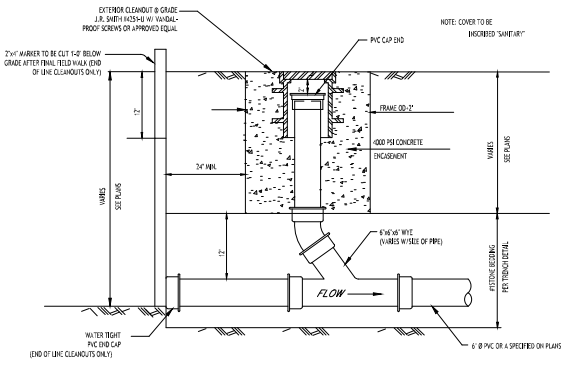


LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK
NOT TO SCALE

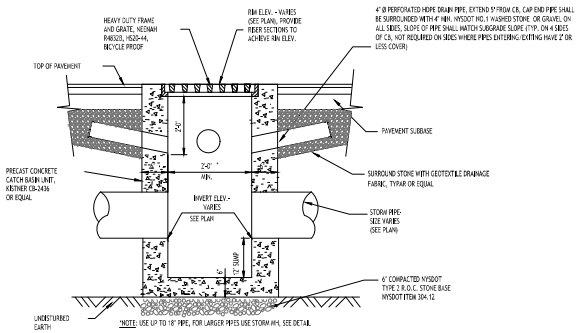


NOTE: LIMITS OF STONE SHOWN ARE MINIMUMS, PLAN MAY INDICATE GREATER LIMITS

TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP
NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS
NOT TO SCALE



TYPICAL PRECAST CATCH BASIN
NOT TO SCALE

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Amherst, New York

REVISIONS:
No. Description Date

DRAWING NAME:
Storm Drainage Details

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-303

Project No:

1.a

Packet Pg. 267

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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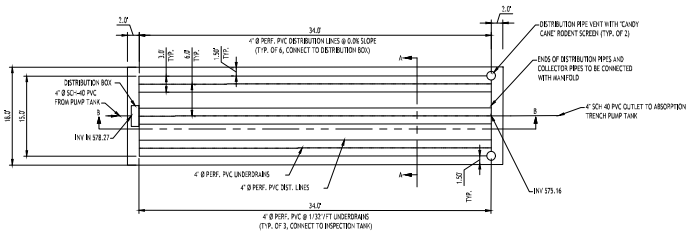


SAND FILTER PLAN

NOT TO SCALE

SAND FILTER NOTES:

1. ALL SAND SHALL BE UNIFORM COARSE TO MEDIUM SAND (< 4% PASSING #200 SIEVE), ALL PASSING 1/4 INCH SIEVE, HAVE A EFFECTIVE GRAIN SIZE (EGS) BETWEEN 0.25 - 1.00 mm, AN UNIFORMITY COEFFICIENT (UC) =< 4

2. IF A HDPE LINER IS USED, SEAL PENETRATIONS AND SEAMS WATER TIGHT

3. TOP OF SAND FILTER SHALL BE SLOPED TO DRAIN, AREAS AROUND THE FILTER SHALL BE GRADED TO DIVERT WATER AWAY

4. ALL HEAVY EQUIPMENT SHALL BE KEPT OFF THE SAND FILTER AREA FOLLOWING CONSTRUCTION.

5. depending on depth of high water mark or bedrock or the existing topography, the entire filter may be adjusted up or down. all required clearances and minimum slopes must be maintained. If adjustments are made to the filter, the engineer shall be notified prior to start of installation.

MOUND NOTES:

1. TOP OF MOUND SHALL BE SLOPED TO DRAIN, AREAS AROUND THE BASE OF THE MOUND SHALL BE GRADED TO DIVERT WATER AWAY FROM THE MOUND.

2. SLOPE UNDER MOUND SHALL FOLLOW SLOPE OF EXISTING GRADE, EITHER SIDE TO SIDE OR LONGITUDINAL TO FACILITATE DRAINAGE (SHOWN AS SIDE TO SIDE FOR ILLUSTRATION PURPOSES).

3. ALL HEAVY EQUIPMENT SHALL BE KEPT OFF THE MOUND AREA FOLLOWING CONSTRUCTION. IN ADDITION, NO EQUIPMENT SHALL BE ALLOWED IN THE MOUND AREA FOLLOWING PLOWING OF THE EXISTING SOIL.

4. MOUND SHALL BE ELEVATED AS REQUIRED TO PROVIDE A MINIMUM OF 2' OF NATURAL SOIL ABOVE BEDROCK AND A MINIMUM OF 1' ABOVE THE HIGH GROUND WATER ELEVATION.

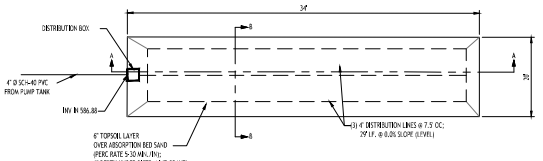
5. THE SLOPE OF THE ORIGINAL GROUND SURFACE IN THE LOCATION OF THE MOUND SHALL NOT EXCEED 12%. THE SYSTEM SHALL BE ORIENTED TO RUN PARALLEL WITH THE NATURAL SITE CONTOURS.

6. THE ABSORPTION BED SAND SHALL MEET THE FOLLOWING CRITERIA:
   - A. < 10% PASSING #200 SIEVE
   - B. >= 25% PASSING #30 SIEVE TO #10 SIEVE
   - C. < 15% PASSING 1/2 SIEVE
   - D. PERCOLATION RATE OF BETWEEN 5 - 30 MIN/INCH
   - E. E.G.S. BETWEEN 0.15 - 0.30 MM
   - F. U.C. BETWEEN 4 - 6
   - G. TEST RESULTS TO BE SUBMITTED TO ENGINEER FOR APPROVAL

NOTE: ASTM C33 WASHED CONCRETE SAND WILL TYPICALLY MEET THE ABOVE SUGGESTED MOUND SAND CRITERIA AND WILL TYPICALLY BE AVAILABLE AT MOST SAND AND GRAVEL DISTRIBUTORS; HOWEVER, THIS MATERIAL WILL OFTEN HAVE A PERC RATE FASTER THAN THE MINIMUM OF 5 MINUTES PER INCH. THE PERCOLATION RATE SHALL BE VERIFIED AND TAKE PRECEDENCE TO THE FILL GRADATION REQUIREMENTS WHEN A MOUND IS PLACED OVER VERY SLOW PERCOLATING SOIL TO AVOID RAPID WEEPING OF FLUIDS AT THE GROUND SURFACE.

7. THE NATURAL VEGETATION SHALL NOT BE SCRAPED AWAY WITH THE EXCEPTION OF TREES, STUMPS AND EXCESSIVE VEGETATION. THE PROPOSED MOUND AREA SHALL BE PLOWED TO A DEPTH OF 7" - 8" PREFERABLY WITH A DOUBLE-BOTTOM BLADE PLOWOW PLOW WITH TURNED UPSLOPE OR A BACK-HOE EQUIPPED WITH PLOWING SLOBES. ALL TRAFFIC SHALL BE EXCLUDED FROM THE MOUND AREA FOLLOWING PLOWING.

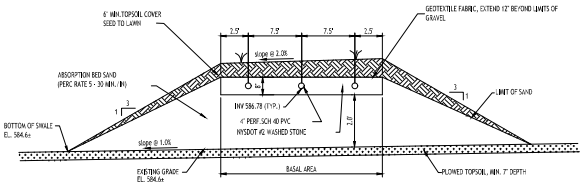
8. DEPENDING ON DEPTH OF HIGH WATER MARK OR BEDROCK, THE ENTIRE MOUND MAY BE ADJUSTED UP OR DOWN. ALL REQUIRED CLEARANCES AND MINIMUM SLOPES MUST BE MAINTAINED. IF ADJUSTMENTS ARE MADE TO THE MOUND, THE ENGINEER SHALL BE NOTIFIED PRIOR TO START OF INSTALLATION.



MOUND PLAN

SCALE: NTS

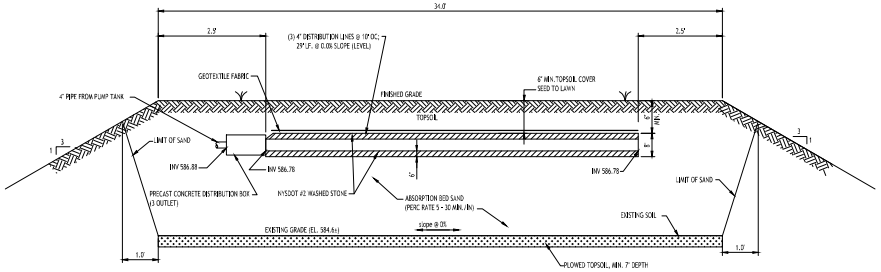
SIZING CALCULATION:
DAILY FLOW = 670 GPD
PERC RATE OF EX. UNDERLYING SOIL : > 60 MIN.
APPLICATION RATE BASED ON PERC. RATE = 1 GPD/SF
BASAL AREA REQ'D = 670 GPD / 1 GPD/SF = 670 SF
BASAL AREA PROVIDED = 680 SF



MOUND SECTION B-B

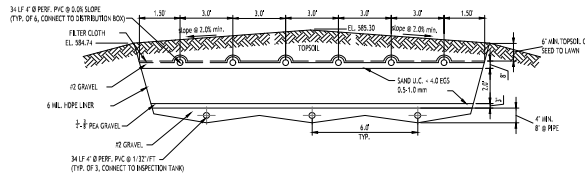
SCALE: N.T.S.

The absorption bed sand shall meet the following criteria:
1. < 10% passing #200 sieve
2. >= 25% between 0.5 mm to 2.0 mm
3. Percolation rate of between 5 - 30 min/inch



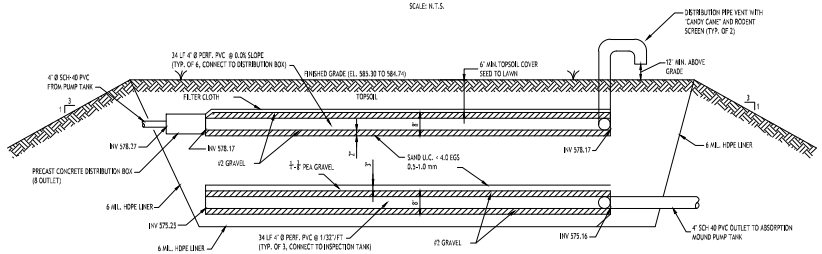
MOUND SECTION A-A

SCALE: N.T.S.



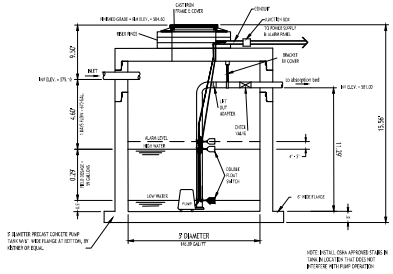
SAND FILTER CROSS SECTION A-A

SCALE: N.T.S.



SAND FILTER SECTION B-B

SCALE: N.T.S.



PUMP TANK

CARMINAWOOD DESIGN
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Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date

DRAWING NAME:
Utility Details

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-401

Project No:

Project No:
DRAWING NO. C-402
Scale:
Drawn By: C. Wood
Date: 11/20/24
Scale: As Noted

DRAWING NAME: Utility Details

Sealed 11/20/2024

REVISIONS: No. Description Date

Proposed Warehouse Buildings
5500 Millersport Highway
Amherst, New York

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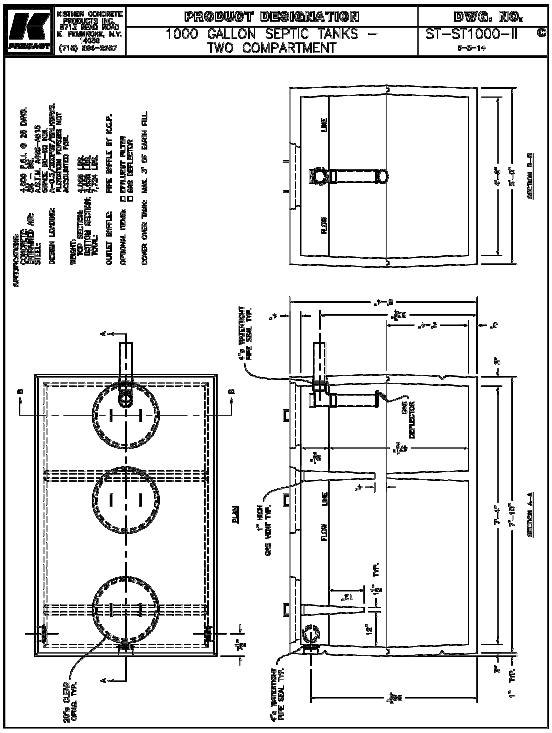

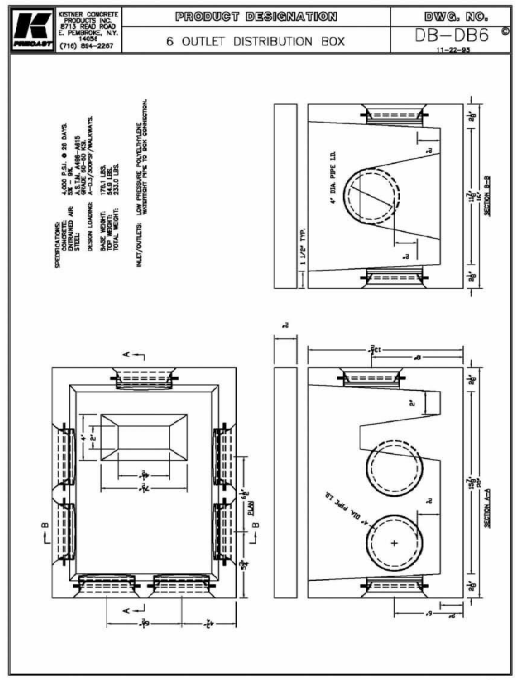

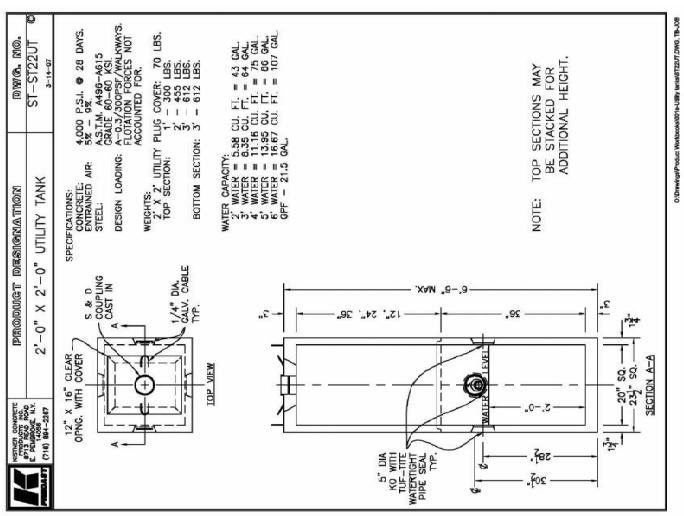

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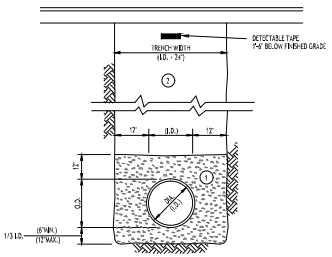


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1988 EDITION)

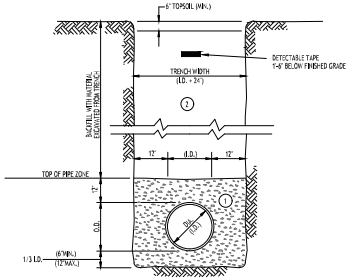
1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

2. TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

SEWER/WATERLINE TRENCH SECTION
IN PAVED AREAS
NOT TO SCALE



NOTES:

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B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

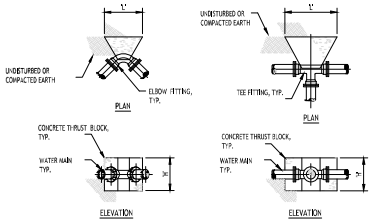
PIPE BEDDING MATERIAL (NYSDOT 1988 EDITION)

1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

2. BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

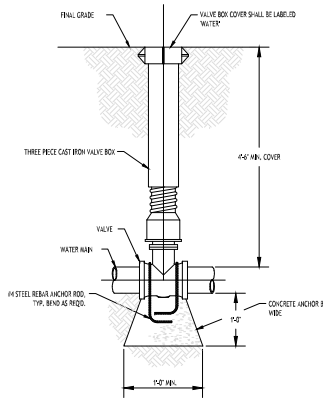
SEWER/WATERLINE TRENCH SECTION
IN UNPAVED AREAS
NOT TO SCALE



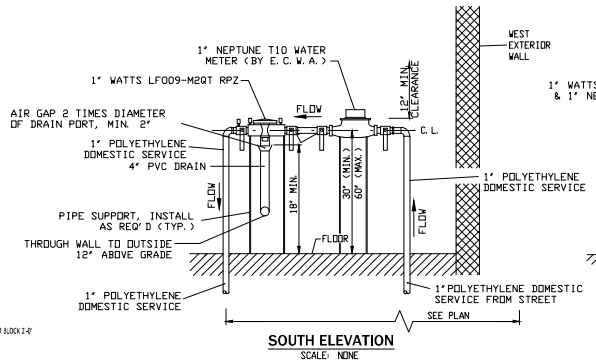
DIMENSION SCHEDULE								
PIPE SIZE	90° ELBOW		45° ELBOW		22.5° ELBOW		11.25° ELBOW	
	W	V	W	L	W	V	W	V
4"	1.5	2.0	1.0	2.0	1.0	1.0	1.0	1.0
6"	2.0	2.3	1.5	2.0	1.0	1.5	1.0	1.5
8"	2.5	3.5	2.0	2.5	1.5	1.5	1.0	2.0
10"	3.0	4.5	2.5	3.0	1.5	3.0	1.0	2.5
12"	3.0	5.0	3.0	3.0	2.5	2.5	1.5	2.5

DIMENSION SCHEDULE		
PIPE SIZE	TEE OR TAP SLEEVE	
—	W	V
4"	1.5	1.0
6"	1.5	2.5
8"	1.5	3.5
10"	2.5	3.5
12"	3.5	3.5

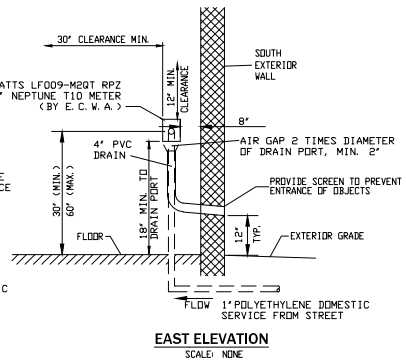
THRUST BLOCK SCHEDULE



TYPICAL GATE VALVE DETAIL
NOT TO SCALE



SOUTH ELEVATION
SCALE: NONE



EAST ELEVATION
SCALE: NONE

1.5" DOMESTIC SERVICE BACKFLOW PREVENTER INSTALLATION

NOTES:
1. NO TAPS TO BE MADE UPSTREAM OF RPZ & METER.
2. HEAT, LIGHT AND ELECTRIC TO BE PROVIDED AT RPZ LOCATION.
3. COORDINATE LOCATION WITH ARCHITECTURAL PLANS.

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Proposed Warehouse Buildings
5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date:

STATE OF NEW YORK — CHRISTOPHER [illegible] — 090944 — PROFESSIONAL ENGINEER
Sealed 11/20/2024

DRAWING NAME:
Utility Details

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-402

Project No:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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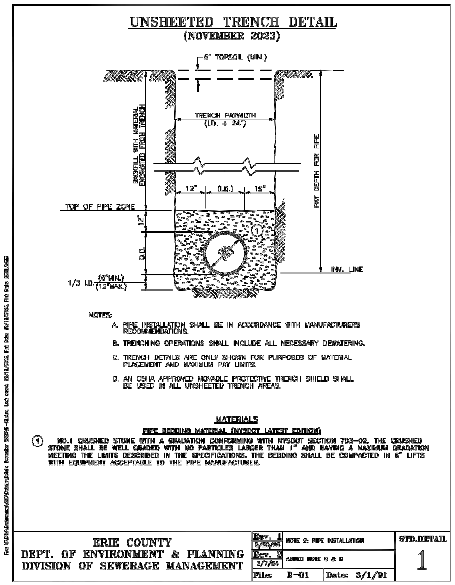

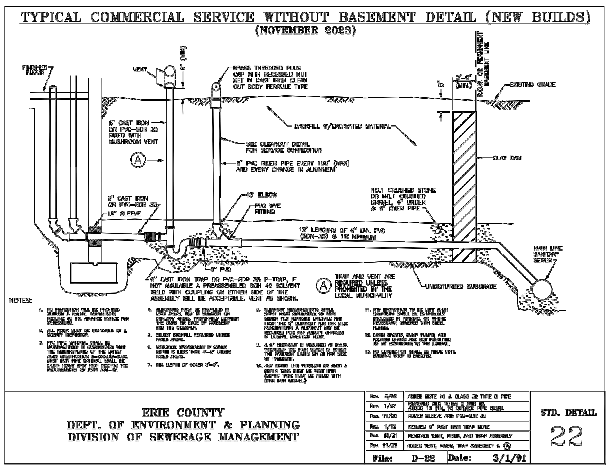

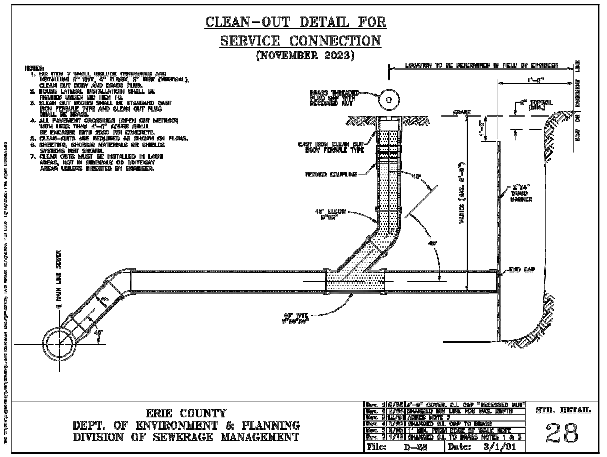

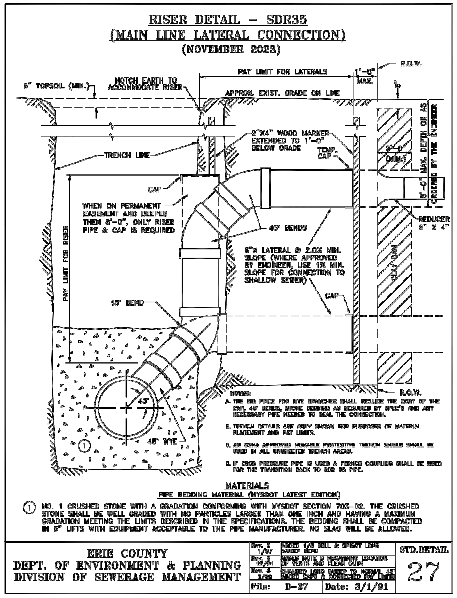

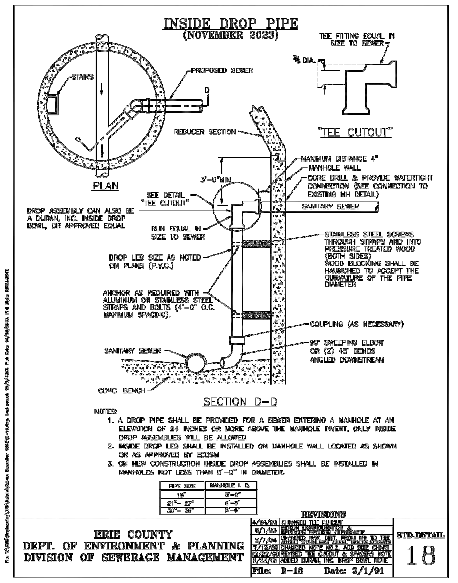

CARMINAWOOD DESIGN
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Proposed Warehouse Buildings
5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date

DRAWING NAME:
Utility Details

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-401

Project No:

Packet Pg. 272

1.a

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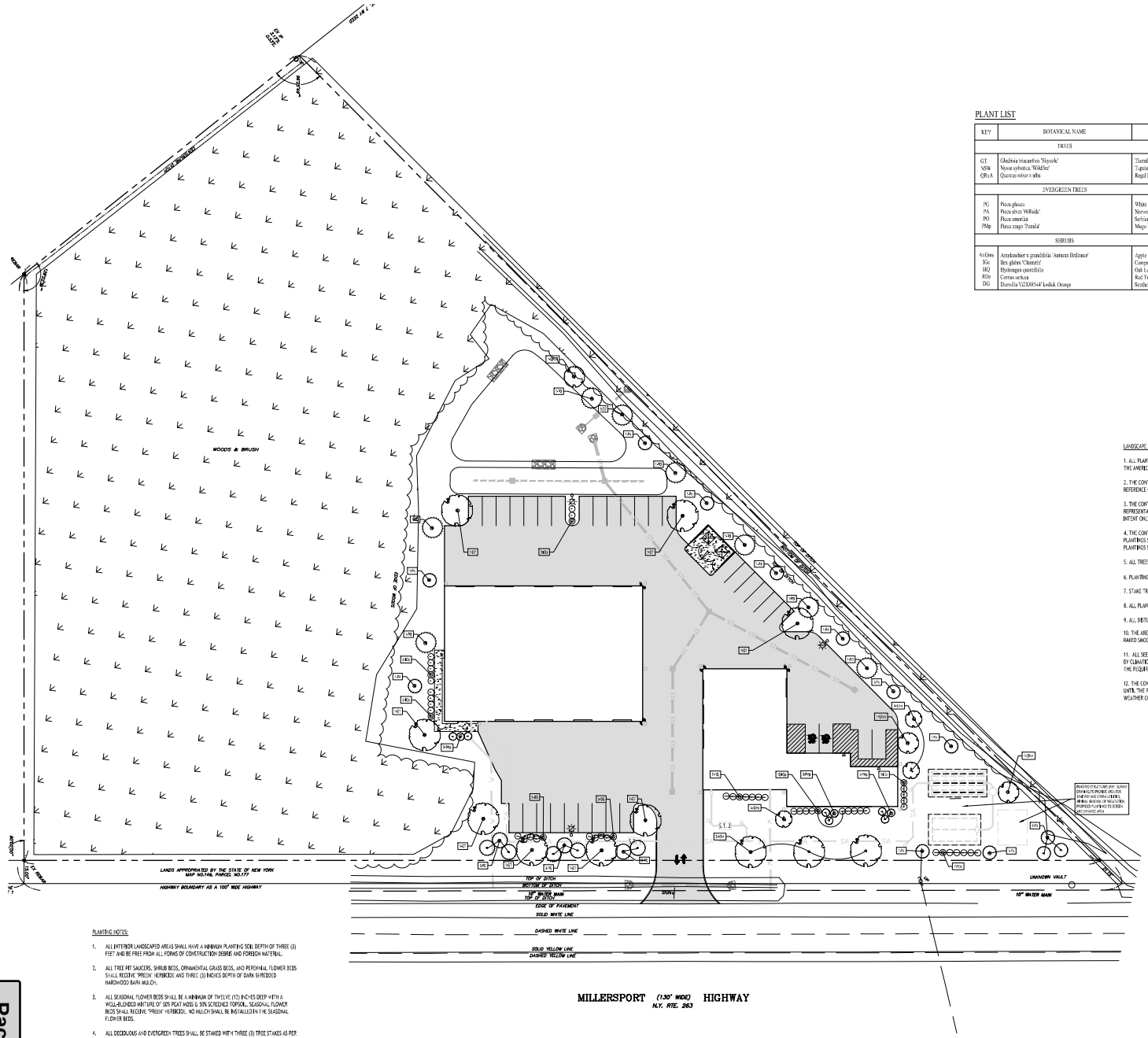

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	CAL.	SIZE	ROOT	QUANTITY	NOTES
TREES							
GT	Gleditsia triacanthos 'Skycole'	Thornless Honey Locust - Skyline	2 1/2"		B&B	8	Grows to 60', high, 35' wide
NSk	Nyssa sylvatica 'Wildfire'	Tupelo 'Wildfire'	2 1/2"		B&B	3	Grows to 50', high, 15' wide
QRxA	Quercus robur x alba	Regal Prince Oak	2 1/2"		B&B	3	Grows to 45', high, 15' wide
EVERGREEN TREES							
PG	Picea glauca	White Spruce		6-8 Min.	B&B	8	Grows to40-60', high, 10-20' wide
PA	Picea abies 'Hillside'	Norway Spruce - upright - Hillside		6-8 Min.	B&B	13	Grows to 25', high, 6-8' w ide
PO	Picea omorika	Serbian Spruce		5' Min.	B&B	8	Grows to 25', high, 6-8' wide
PMp	Pinus mugo 'Pumila'	Mugo Pine		18-24" Min.	B&B	9	Grows to 3', high, 6-8' wide
SHRUBS							
AvGro	Amelanchier x grandiflola 'Autumn Brilliance'	Apple Serviceberry		3 Gal.		4	Grows to 8-10', hrgh, 10-1'2' wide
IGc	Ilex glabra 'Chamtrif'	Compact Inkberry Holly		3 Gal.		28	Grows to 4', high, 6-8' wide
HQ	Hydrangea quercifolia	Oak Leaf Hydrangea		#3 Cont.		7	Grows to 8-15', high, 6-8' wide
RDr	Cornus sericea	Red Twig Dogwood		#2 Cont.		7	Grows to 5', high, 6-5' wide
DG	Diervilla 'IZSX88544' lodlok Orange	Southern Bush Honeysuckle		#3 Cont.		10	Grows to 4' high, 3-4' wide

LANDSCAPE NOTES:

1. ALL PLANTS INSTALLED SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED ON THE PLANS AND IN THE LATEST EDITION ON THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60.1
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF, THE QUANTITIES SHOWN ARE A MINIMUM AND ARE FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANTING MATERIAL LOCATIONS AND CONTACT THE OWNERS FIELD REPRESENTATIVE PRIOR TO ACTUAL INSTALLING. THE PLANTING MATERIAL LOCATIONS SHOWN ON THE PLANS ARE TO CONVEY THE DESIGN INTENT ONLY. ACTUAL LOCATIONS WILL BE FINALIZED BY THE OWNERS FIELD REPRESENTATIVE AT THE TIME OF INSTALLATION.
4. THE CONTRACTOR IS HEREBY NOTIFIED THAT IF UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE PLANTINGS, ALL PROPOSED PLANTINGS SHALL BE INSTALLED A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY, CONTACT THE OWNERS FIELD REPRESENTATIVE IF PLANTINGS SHOWN ON THE PLANS VIOLATE THIS SITUATION.
5. ALL TREES SHALL BE INSTALLED A MINIMUM OF 20' FROM ANY OVERHEAD ELECTRIC LINES.
6. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 3 PARTS TOPSOIL, 1 PART PEAT MOSS, & PART MILORGANITE.
7. STAKE TREES IMMEDIATELY FOLLOWING INSTALLATION.
8. ALL PLANTED AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED HARDWOOD BARK MULCH WITH 'PREEN'.
9. ALL DISTURBED AREAS NOT RECEIVING PLANTINGS (INCLUDING RIGHT-OF-WAYS) SHALL BE SEEDED.
10. THE AREAS ON THE PLAN TO BE SEEDED SHALL HAVE 4" MINIMUM OF TOPSOIL, DISK PLOWED, LEVELED AND HAND RAKED SMOOTH. SURFACE SHALL BE ROLLED TO REMOVE LUMPS.
11. ALL SEEDED AREAS SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE SPECIFICATION INDICATED. WHERE REQUIRED BY CLIMATIC CONDITIONS, SLOPE OR SEASON OF PLANTING, SOD MAY BE SUBSTITUTED FOR SEEDING IN ORDER TO ACHIEVE THE REQUIRED COVERAGE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MOWING AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER, THIS SHALL INCLUDE WATERING DAILY FOR 15 DAYS OR AS REQUIRED BY WEATHER CONDITIONS AND RE-SEEDING OF THIN SPOTS FOLLOWING THE GERMINATION OF THE SEEDS.

PLANTING NOTES:

1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 30% PEAT MOSS & 70% SCREENED TOPSOIL. SEASONAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

LEGEND

DECIDUOUS TREE

SMALL TREE

EVERGREEN TREE/SHRUB

BUSH/ORNAMENTAL GRASS PERENNIAL

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

N Landscape Plan
SCALE: 1"=30'

CARMINA WOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Buildings
5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date:

DRAWING NAME:
Landscape Plan

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
L-100

Project No:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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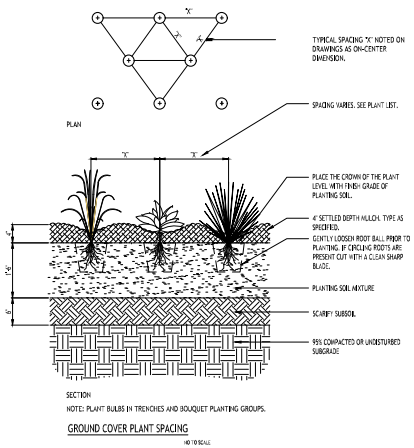
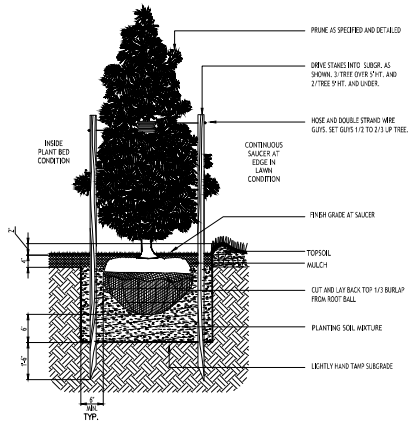
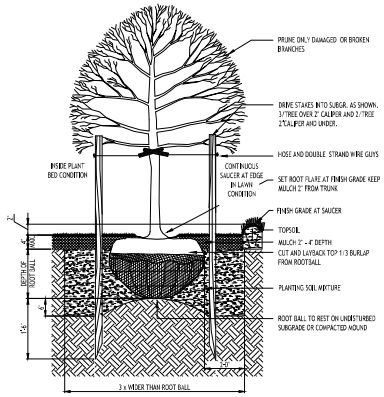


GROUND COVER PLANT SPACING

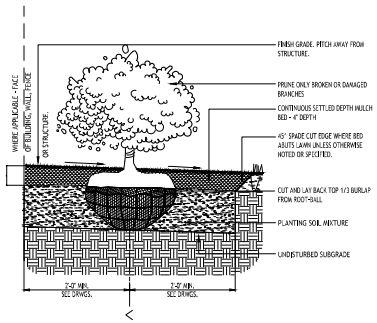
NO TO SCALE



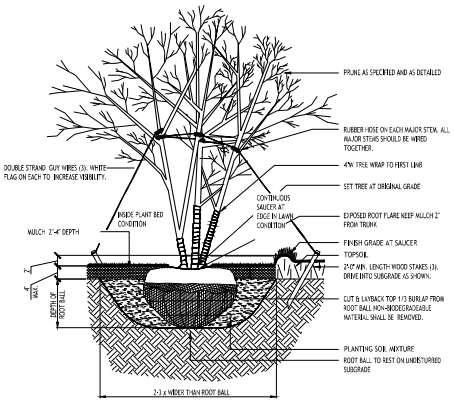
STD. EVERGREEN PLANTING



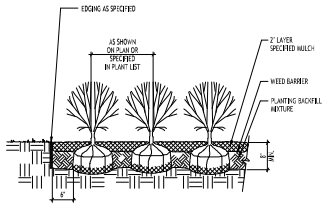
STD. DECIDUOUS TREET PLANTING



STD. SHRUB PLANTING



STD. MULTI STEM DECIDUOUS TREE PLANTING



STD. SHRUB SPACING/PLANTING

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date

DRAWING NAME:
Landscape Details

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
L-101

Project No:

Packet Pg. 274

1.a

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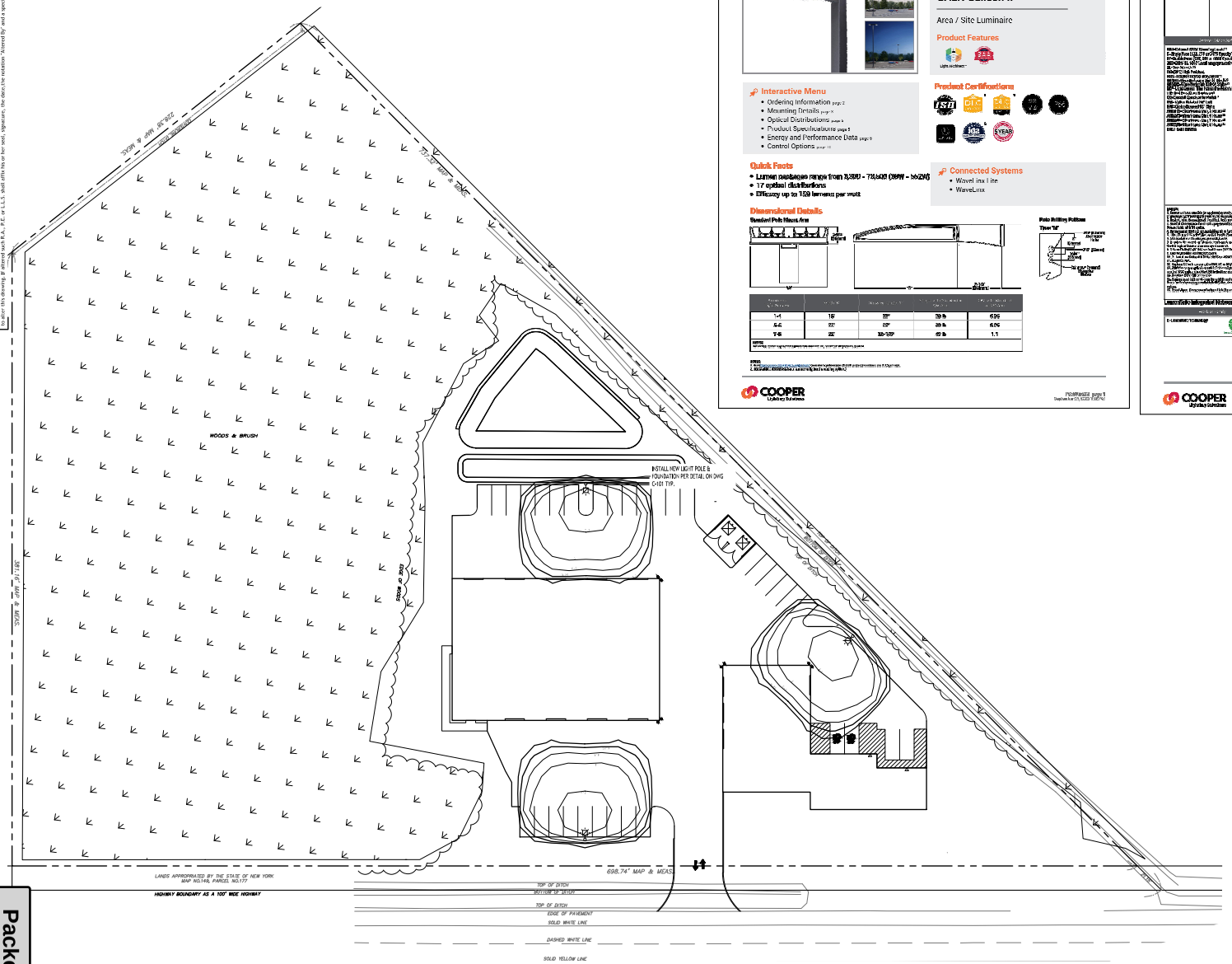


N

Lighting Plan

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR IT'S ACCURACY.

30' 0 30' 60Ft.

McGraw-Edison

GALN Galleon II

Area / Site Luminaire

Product Features

Interactive Menu

- Ordering Information page 2
- Mounting Details page 3
- Optical Distributions page 3
- Product Specifications page 4
- Energy and Performance Data page 5
- Control Options page 11

Product Certifications

Quick Facts

- Lumen packages range from 8,300 - 70,600 (98W - 562W)
- 17 optical distributions
- Efficacy up to 159 lumens per watt

Connected Systems

- Wavel inx Lite
- WaveLinx

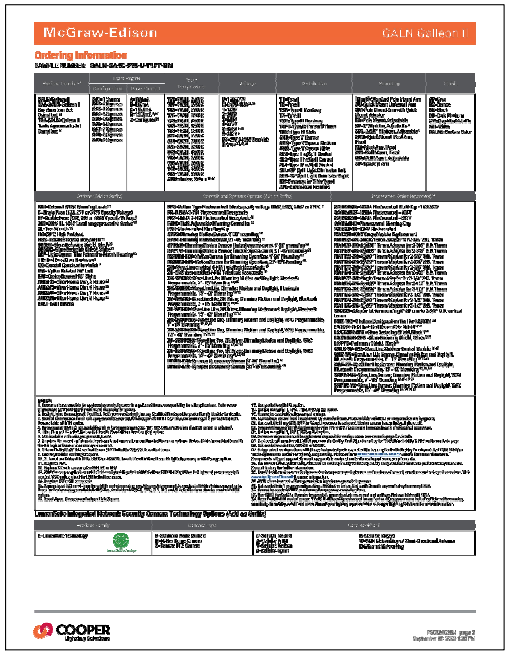
Dimensional Details

Standard Pole Mount Arm

Pole Bolting Pattern

Type "M"

COOPER Lighting Solutions



McGraw-Edison GALN Galleon II

Ordering Information

COOPER Lighting Solutions

CARMINA WOOD DESIGN

Buffalo | Utica | Greensboro

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date

DRAWING NAME:

Lighting Plan

Date: 11/20/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

LP-100

Project No:

1.a

Packet Pg. 275

Appendix I

Soils Information

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Hydrologic Soil Group—Erie County, New York



Map Scale: 1:1,340 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Soil Rating Lines

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Soil Rating Points

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Water Features

Streams and Canals

Transportation

Rails
Interstate Highways
US Routes
Major Roads
Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 23, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 28, 2020—Jul 4, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Cc	Canandaigua silt loam	C/D	1.2	21.7%
Ge	Getzville silt loam	B/D	4.4	78.3%
Totals for Area of Interest			**5.6**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Tie-break Rule: Higher

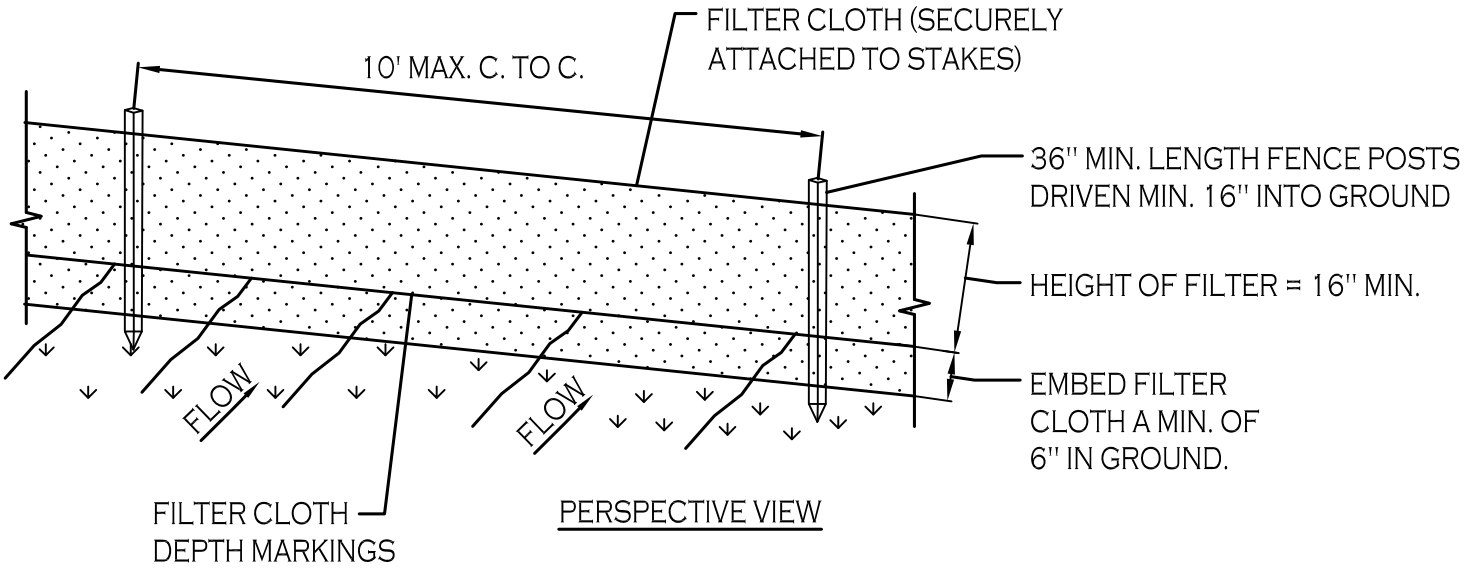
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

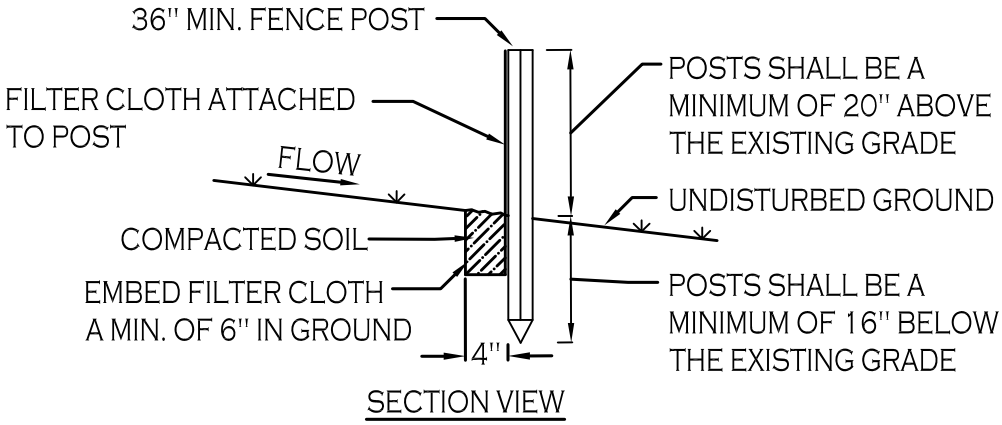
Appendix J

Standard Erosion Control Details

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)





CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.

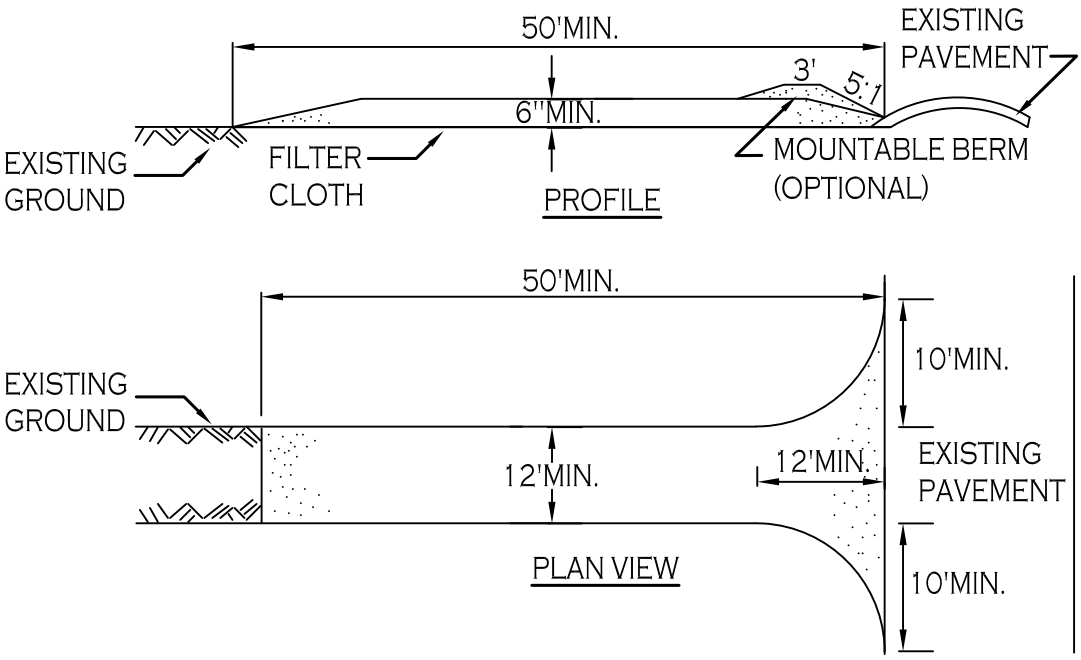
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.

3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).

3. THICKNESS - NOT LESS THAN SIX (6) INCHES.

4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

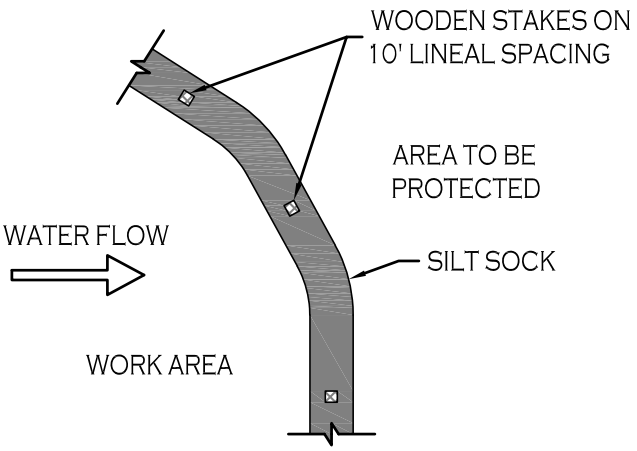
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

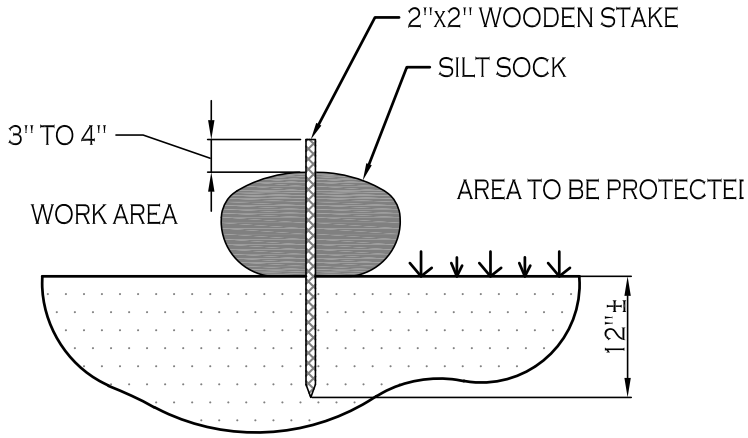
STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



PLAN VIEW



SECTION VIEW

NOTES:

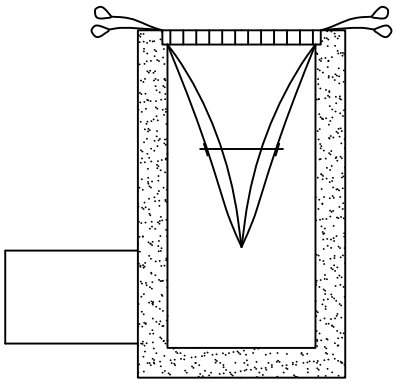
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED $\frac{1}{2}$ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

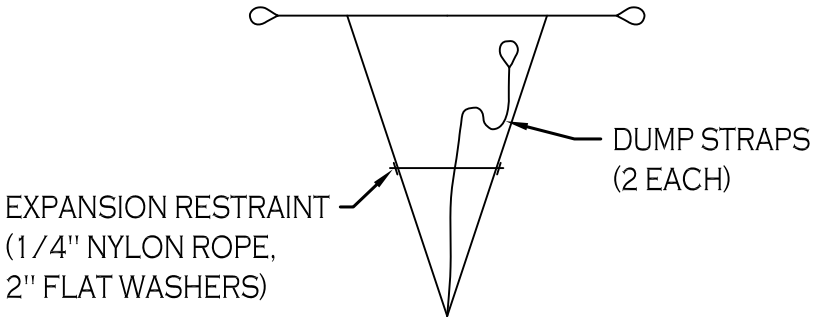
SILT SOCK DETAIL

NOT TO SCALE

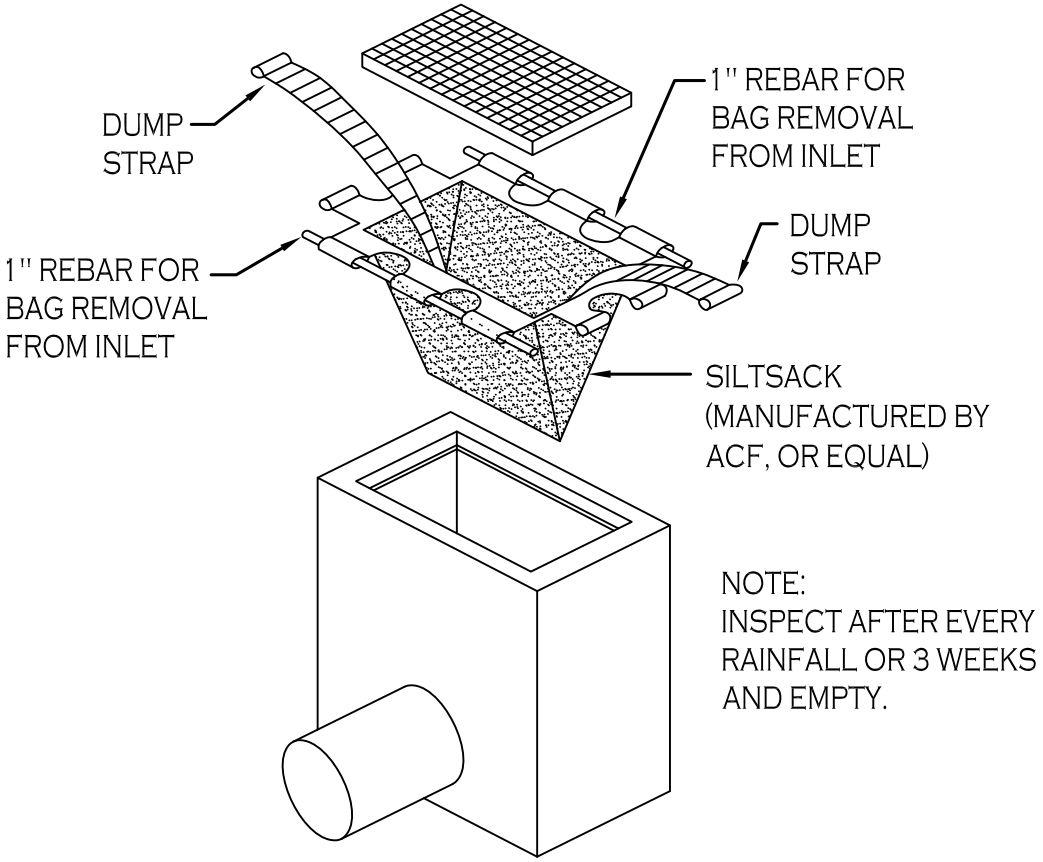
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



INSTALLATION DETAIL



BAG DETAIL



SILT SACK DETAIL

NOT TO SCALE

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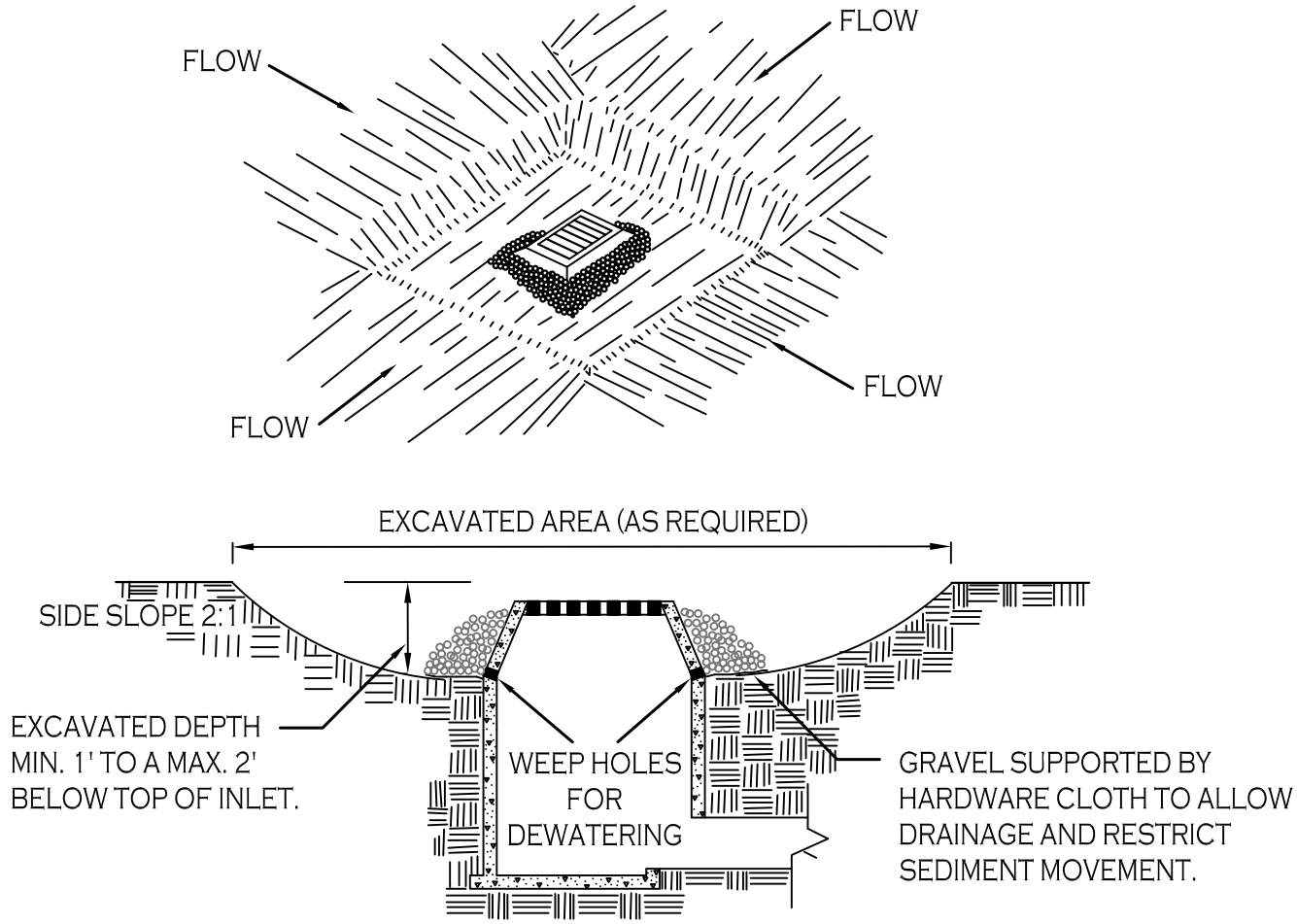


CONSTRUCTION SPECIFICATIONS

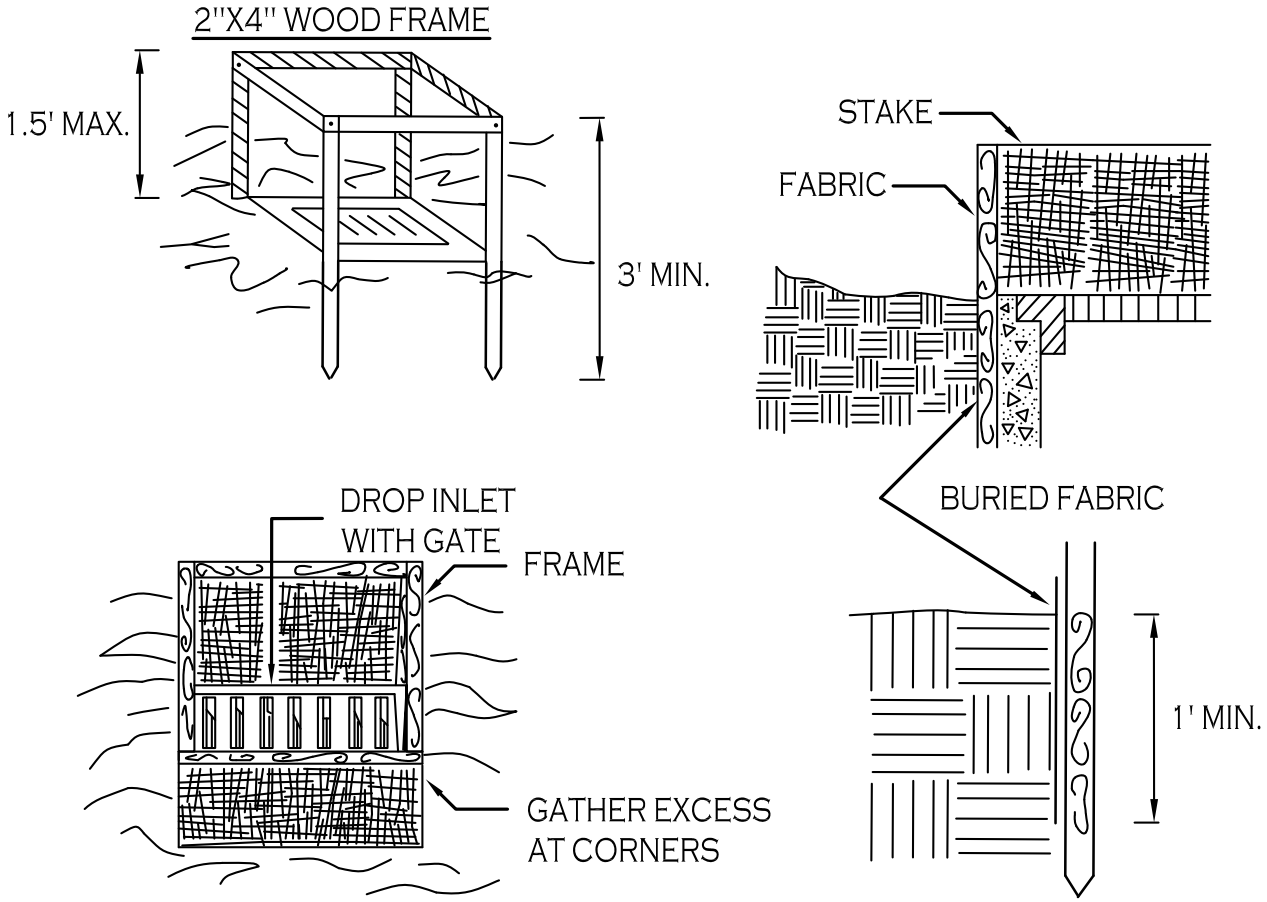
1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.

2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.

3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.

4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.

5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.

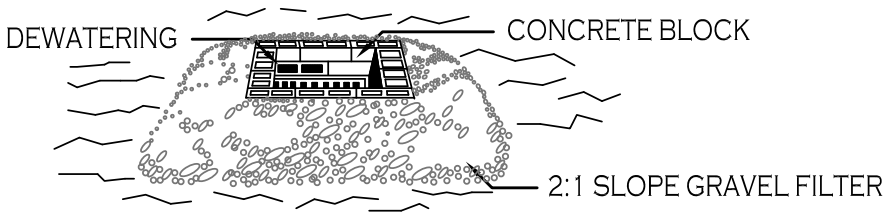
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUN DRAINAGE AREA 1 ACRE

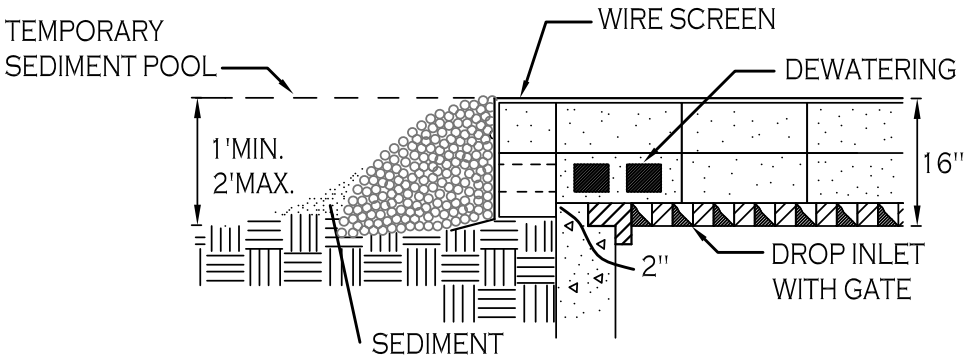
INLET PROTECTION DETAIL 2

NOT TO SCALE

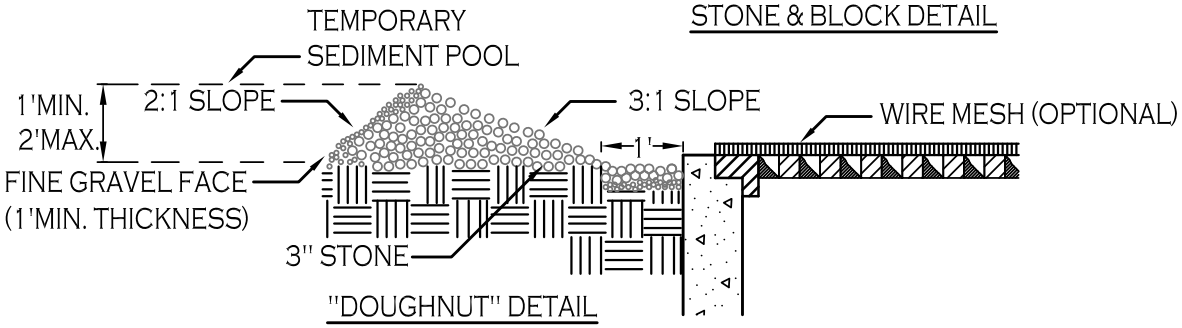
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL



"DOUGHNUT" DETAIL

CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.

2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.

3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.

4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

NOT TO SCALE

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

EXISTING TREE PROTECTION FENCE

MATERIALS

MATERIALS FOR TEMPORARY PLASTIC BARRIER FENCES SHALL MEET THE FOLLOWING REQUIREMENTS:

- FENCE: HIGH-DENSITY POLYETHYLENE MESH, ULTRAVIOLET-STABILIZED MIN. 2 YEARS; MINIMUM HEIGHT 4.0 FEET. COLOR: HIGH-VISIBILITY ORANGE OR GREEN. WHEN USED TO PROTECT TREES OR OTHER VEGETATION, COLOR SHALL BE HIGH-VISIBILITY ORANGE.
- POSTS: RIGID METAL OR WOOD POSTS, MINIMUM LENGTH 6.0 FEET.
- TIES: STEEL WIRE, #14 GAUGE OR NYLON CABLE TIES.
- WARNING SIGNS: SHEET METAL, PLASTIC OR OTHER RIGID, WATERPROOF MATERIAL, 1.5 FEET BY 2.0 FEET WITH 4 INCH BLACK LETTERS ON A WHITE BACKGROUND. TEXT SHALL BE: "PROTECTED SITE - KEEP OUT" UNLESS OTHERWISE SPECIFIED.

DETAILS

FENCES SHALL BE ERECTED PRIOR TO MOVING CONSTRUCTION EQUIPMENT ONTO ANY AREA DESIGNATED FOR PROTECTION.

THE LINE OF FENCES SHALL BE STAKED OR MARKED OUT ON THE GROUND BY THE CONTRACTOR AND APPROVED BY THE ENGINEER/OWNER BEFORE ANY FENCE IS INSTALLED. WHERE USED FOR PROTECTION OF INDIVIDUAL TREES, FENCE SHALL BE PLACED AT THE DRIP LINE (EXTENT OF CANOPY). IF NOT POSSIBLE, PLACEMENT SHALL BE AS CLOSE TO THE DRIP LINE AS POSSIBLE AND IN NO CASE LESS THAN 5.0 FEET AWAY FROM THE TREE TRUNK.

ON APPROVAL OF THE STAKEOUT, POSTS SHALL BE SECURELY DRIVEN ON 6.0 FOOT-MAXIMUM CENTERS, NORMAL TO THE GROUND, TO A DEPTH 1/3 OF THE TOTAL POST LENGTH. PLASTIC BARRIER FENCE SHALL BE PLACED ALONG THE SIDE OF ALL POSTS. ENDS OF FENCING SEGMENTS SHALL OVERLAP A DISTANCE OF AT LEAST ONE HALF THE FENCE HEIGHT.

FENCING SHALL BE SECURED TO POSTS WITH WIRE OR CABLE TIES AT TOP, MIDDLE AND BOTTOM OF POST. FASTENER SHALL BE TIGHT ENOUGH TO PREVENT THE FENCING FROM SLIPPING DOWN. OVERLAPS SHALL ALSO BE SECURELY FASTENED.

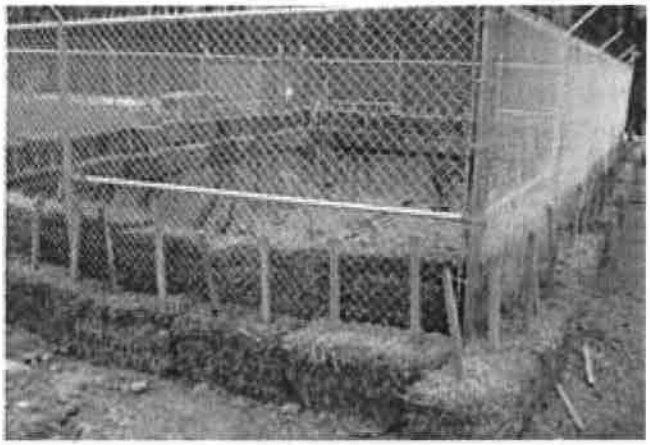
BARRIER FENCE WHICH IS NOT ORANGE IN COLOR SHALL BE FLAGGED AT 6.0 FOOT INTERVALS WITH RED OR ORANGE FLORESCENT TAPE. WARNING SIGNS SHALL BE MOUNTED ON THE FENCE AT NO MORE THAN 100 FOOT INTERVALS.

MAINTENANCE SHALL COMMENCE IMMEDIATELY AFTER ERECTION OF THE FENCE AND CONTINUE UNTIL ONE WEEK PRIOR TO ACCEPTANCE OF THE CONTRACT, AND SHALL CONSIST OF: REPLACING DAMAGED POST(S) AND FENCING; RE-FASTENING AND TIGHTENING FENCING; AND RESTORING FENCE TO ITS INTENDED HEIGHT.

FENCING USED FOR TREE OR OTHER VEGETATION PROTECTION SHALL NOT BE TEMPORARILY REMOVED TO ALLOW EQUIPMENT ACCESS OVER A PROTECTED AREA, EXCEPT AS REQUIRED FOR ITEMS OF WORK SPECIFICALLY SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER IN WRITING.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

STANDARD AND SPECIFICATIONS FOR CONCRETE TRUCK WASHOUT



Definition & Scope

A temporary excavated or above ground lined constructed pit where concrete truck mixers and equipment can be washed after their loads have been discharged, to prevent highly alkaline runoff from entering storm drainage systems or leaching into soil.

Conditions Where Practice Applies

Washout facilities shall be provided for every project where concrete will be poured or otherwise formed on the site. This facility will receive highly alkaline wash water from the cleaning of chutes, mixers, hoppers, vibrators, placing equipment, trowels, and screeds. Under no circumstances will wash water from these operations be allowed to infiltrate into the soil or enter surface waters.

Design Criteria

Capacity: The washout facility should be sized to contain solids, wash water, and rainfall and sized to allow for the evaporation of the wash water and rainfall. Wash water shall be estimated at 7 gallons per chute and 50 gallons per hopper of the concrete pump truck and/or discharging drum. The minimum size shall be 8 feet by 8 feet at the bottom and 2 feet deep. If excavated, the side slopes shall be 2 horizontal to 1 vertical.

Location: Locate the facility a minimum of 100 feet from drainage swales, storm drain inlets, wetlands, streams and other surface waters. Prevent surface water from entering the structure except for the access road. Provide appropriate access with a gravel access road sloped down to the structure. Signs shall be placed to direct drivers to the facility after their load is discharged.

Liner: All washout facilities will be lined to prevent leaching of liquids into the ground. The liner shall be plastic sheeting with a minimum thickness of 10 mils with no holes or tears, and anchored beyond the top of the pit with an earthen berm, sand bags, stone, or other structural appurtenance except at the access point.

If pre-fabricated washouts are used they must ensure the capture and containment of the concrete wash and be sized based on the expected frequency of concrete pours. They shall be sited as noted in the location criteria.

Maintenance

- All concrete washout facilities shall be inspected daily. Damaged or leaking facilities shall be deactivated and repaired or replaced immediately. Excess rainwater that has accumulated over hardened concrete should be pumped to a stabilized area, such as a grass filter strip.
- Accumulated hardened material shall be removed when 75% of the storage capacity of the structure is filled. Any excess wash water shall be pumped into a containment vessel and properly disposed of off site.
- Dispose of the hardened material off-site in a construction/demolition landfill. On-site disposal may be allowed if this has been approved and accepted as part of the projects SWPPP. In that case, the material should be recycled as specified, or buried and covered with a minimum of 2 feet of clean compacted earthfill that is permanently stabilized to prevent erosion.
- The plastic liner shall be replaced with each cleaning of the washout facility.
- Inspect the project site frequently to ensure that no concrete discharges are taking place in non-designated areas.

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Appendix K

NYSDEC Stormwater Management Inspection Lists

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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Bioretetion Areas (F-5)



Description: Shallow stormwater basin or landscaped area which utilizes engineered soils and vegetation to capture and treat runoff. The practice is often located in parking lot islands, and can also be used to treat residential areas.

KEY CONSIDERATIONS

CONVEYANCE

- Provide overflow for the 10-year storm to the conveyance system.
- Conveyance to the system is typically overland flow delivered to the surface of the system, typically through curb cuts or over a concrete lip.

PRETREATMENT

- Pretreatment consists of a grass channel or grass filter strip, a gravel diaphragm, and a mulch layer, sized based on the methodologies described in Section 6.4.2.

TREATMENT

- Treatment area should have a four foot deep planting soil bed, a surface mulch layer, and a 6" ponding layer.
- Size the treatment area using equations provided in Chapter 6.

LANDSCAPING

- Detailed landscaping plan required.

MAINTENANCE

- Inspect and repair/replace treatment area components
- Stone drop (at least 6") provided at the inlet
- Remulch annually

STORMWATER MANAGEMENT SUITABILITY

- [X] Water Quality
- [ ] Channel Protection
- [ ] Overbank Flood Protection
- [ ] Extreme Flood Protection

Accepts Hotspot Runoff: *Yes*
(requires impermeable liner)

IMPLEMENTATION CONSIDERATIONS

- [M] Capital Cost
- [M] Maintenance Burden

Residential
Subdivision Use: *Yes*

High Density/Ultra-Urban: *Yes*

Drainage Area: *5 acres max.*

Soils: *Planting soils must meet specified criteria; No restrictions on surrounding soils*

Other Considerations:

- *Use of native plants is recommended*

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	Key: L=Low **M**=Medium **H**=High **POLLUTANT REMOVAL** **G** Phosphorus **G** Nitrogen **G** Metals - Cadmium, Copper, Lead, and Zinc removal **F** Pathogens – Coliform, Streptococci, E.Coli removal **Key**: **G**=Good **F**=Fair **P**=Poor

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Bioretention Construction Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Pre-Construction		
Pre-construction meeting		
Runoff diverted		
Facility area cleared		
If designed as exfilter, soil testing for permeability		
Facility location staked out		
2. Excavation		
Size and location		
Lateral slopes completely level		
If designed as exfilter, ensure that excavation does not compact susoils.		
Longitudinal slopes within design range		

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CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
3. Structural Components		
Stone diaphragm installed correctly		
Outlets installed correctly		
Underdrain		
Pretreatment devices installed		
Soil bed composition and texture		
4. Vegetation		
Complies with planting specs		
Topsoil adequate in composition and placement		
Adequate erosion control measures in place		
5. Final Inspection		
Dimensions		
Proper stone diaphragm		
Proper outlet		
Soil/ filter bed permeability testing		
Effective stand of vegetation and stabilization		
Construction generated sediments removed		
Contributing watershed stabilized before flow is diverted to the practice		

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Comments:

Actions to be Taken:

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Bioretention Operation, Maintenance and Management Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. Debris Cleanout (Monthly)		
Bioretention and contributing areas clean of debris		
No dumping of yard wastes into practice		
Litter (branches, etc.) have been removed		
2. Vegetation (Monthly)		
Plant height not less than design water depth		
Fertilized per specifications		
Plant composition according to approved plans		
No placement of inappropriate plants		
Grass height not greater than 6 inches		
No evidence of erosion		
3. Check Dams/Energy Dissipaters/Sumps (Annual, After Major Storms)		
No evidence of sediment buildup		

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MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
Sumps should not be more than 50% full of sediment		
No evidence of erosion at downstream toe of drop structure		
4. Dewatering (Monthly)		
Dewaters between storms		
No evidence of standing water		
5. Sediment Deposition (Annual)		
Swale clean of sediments		
Sediments should not be > 20% of swale design depth		
6. Outlet/Overflow Spillway (Annual, After Major Storms)		
Good condition, no need for repair		
No evidence of erosion		
No evidence of any blockages		
7. Integrity of Filter Bed (Annual)		
Filter bed has not been blocked or filled inappropriately		

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Comments:

Actions to be Taken:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix L

Wetland Delineation Report: by Earth Dimensions

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Wetland and Waterbodies Delineation Report

for

5500 MILLERSPORT HIGHWAY

Town of Amherst

Erie County, New York

for

Kevin Stephens

EARTH DIMENSIONS, INC.
1091 Jamison Road, Elma, NY 14059
www.earthdimensions.com
716-655-1717

September 9, 2024
EDI Project Code: **W8A16a**

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

REPORT SUMMARIZING
THE RESULTS OF
A WETLAND DELINEATION SURVEY OF

5500 MILLERSPORT HIGHWAY

Prepared for Submission to:

U.S. ARMY CORPS OF ENGINEERS
478 MAIN STREET
BUFFALO, NEW YORK 14202

AND

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
700 DELAWARE AVENUE
BUFFALO, NEW YORK 14209

Prepared By:

EARTH DIMENSIONS, INC.
1091 JAMISON ROAD
ELMA, NEW YORK 14059

Prepared For:

KEVIN STEPHENS
STEPHENS PLUMBING & HEATING INC.
5500 MILLERSPORT HIGHWAY
EAST AMHERST, NEW YORK 14051
KJS@STEPHENSPLUMBINGNY.COM
(716) 512-9451

REPORT DATE: September 9, 2024

EDI PROJECT CODE: W8A16a

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

PROJECT INFORMATION

Project Name	5500 Millersport Highway
Street Address	5500 Millersport Highway
SBL Number	4.00-3-20
Town	Amherst
County	Erie
State	New York
Latitude/Longitude (NAD83)	43.08004°N, -78.70095°W
Investigation Area	4.92± Acres
USGS 7.5 Minute Topographical Map	Clarence Center Quadrangle
Waterway	N/A
Hydrologic Unit Code	04120104
Date of Delineation	September 6, 2024
Consultant	Earth Dimensions, Inc. 1091 Jamison Road Elma, New York 14059
Point of Contact	Alex Molik (716)655-1717 alex@earthdimensions.com
Engineer	Carmina Wood Design
Property Owner	5500 Millersport Highway LLC
Authority	Section 404, Article 24
Permit/Letter Being Requested	Jurisdictional Determination

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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EXECUTIVE SUMMARY

Kevin Stephens has proposed the development of a 4.92± acre parcel located along the northwest side of Millersport Highway in the Town of Amherst, County of Erie, and State of New York. Kevin Stephens has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation report that would allow the U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) to determine their jurisdictional authority over the investigation area, pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law. The proposed project does not qualify for Bipartisan Infrastructure Law (BIL) funding.

A preliminary review of available information pertaining to vegetation, soils, and hydrology in the project area was implemented prior to conducting a field investigation at the site. Sources of information included the United States Geological Survey (USGS), Natural Resources Conservation Service (NRCS), National Wetland Inventory (NWI), and NYSDEC Freshwater Wetland maps. The NRCS and NWI maps indicate the potential for wetlands under federal jurisdiction. The NYSDEC map indicates the potential for wetlands under state jurisdiction.

EDI applied methodology specified by the Corps of Engineers Wetlands Delineation Manual (January 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0 (January 2012) to perform a delineation of Federal jurisdictional wetlands within the site. EDI identified one (1) wetland area totaling 2.92± acres within the investigation area. The identification number of the wetlands, their acreage and boundary flags are as follows:

TABLE 1: WETLAND SUMMARY

Wetland Identification #	Geographic Center (WGS84)		Boundary Flag #	Total Acreage On-site	Wetland Type (Cowardin)	Wetland Type (Reschke)
	Latitude	Longitude				
Wetland 1	43.07978	-78.70143	W1-1 through W1-28	2.92±	PSS1E	Scrub-shrub
Total Wetland Acreage:				2.92±		

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

SECTION I: INTRODUCTION

Kevin Stephens has proposed the development of a 4.92± acre parcel on the northwest side of Millersport Highway in the Town of Amherst, County of Erie, and State of New York. The project has been given the name 5500 Millersport Highway and is located on USGS 7.5 minute quadrangle map indexed as Amherst Center (Figure 1). The field work was completed on September 6, 2024 using a Trimble TDC650 GPS to locate wetland and drainage boundaries.

Kevin Stephens has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study at this site. The investigation was designed to facilitate a determination of the extent of USACE and NYSDEC jurisdiction over the project area pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

EDI has performed a wetland delineation study at the site under guidelines specified by the *Corps of Engineers Wetlands Delineation Manual*, dated January 1987 (referred to hereafter as the Corps Manual) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region version 2.0* (January 2012) (referred to hereafter as the Northcentral and Northeast Regional Supplement). The purpose of this report is to present EDI's methods, results, conclusions and recommendations with respect to the 5500 Millersport Highway project site.

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SECTION II: SITE DESCRIPTION

The 5500 Millersport Highway project area is comprised of a 4.92± acre irregular shaped investigation area on the north side of Millersport Highway and west of Transit Road which is outlined on Figure 1 and depicted on the Wetland Delineation Map included in Appendix A (Figure 6).

The natural topography of the 5500 Millersport Highway site is flat to gently sloping. The upland within the investigation area consisted of a mown lawn community. The wetland area was found to consist of a scrub-shrub swamp community. The vegetative communities of the investigation area are described according to *Ecological Communities of New York State* (Edinger et al. 2014).

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SECTION III: PRELIMINARY DATA REVIEW

A. SUMMARY OF FINDINGS

Several sources of information may be reviewed to facilitate the completion of a wetland delineation study. In some cases, it is even possible to make a preliminary office wetland determination based upon available vegetation, soils, and hydrologic information for a project area. EDI completed a preliminary review of several data sources at the onset of this study. The results of the review are summarized as follows:

1. USGS 7.5 Minute Topographical Map

The USGS quadrangle map (Figure 1) depicts the investigation area on the Clarence Center quadrangle map. The figure depicts the flat topography of the site.

2. USFWS National Wetlands Inventory Map

The National Wetlands Inventory (NWI) map (Figure 2) obtained from the USFWS Wetland Mapper http://www.fws.gov/wetlands/Data/Mapper.html displays two (2) wetland types, PFO1E and PSS1E within the investigation area. The wetlands can be decoded as:

[P] Palustrine, [SS] Scrub-shrub, [1] Broad leaved-deciduous, [E] Seasonally flooded/saturated

[P] Palustrine, [SS] Scrub-shrub,[1] Broad leaved-deciduous, [E] Seasonally flooded/saturated

3. Natural Resources Conservation Service Soils Map

The NRCS Soil Map (Figure 3) depicts the investigation area on the Erie County Soil Survey map obtained from the Web Soil Survey. As shown on that figure, the site has the following soil types:

Soil Conservation Service Legend

Map Unit Symbol	Map Unit Name	Hydric Rating
Cc	Canandaigua silt loam	95
Ge	Getzville silt loam	85

Canandaigua Series: The Canandaigua series consists of very deep, poorly and very poorly drained soils formed in silty glacio-lacustrine sediments. These soils are on lowland lake plains and in

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depressional areas on glaciated uplands. Slope ranges from 0 to 3 percent. Mean annual temperature is 49 degrees F. and mean annual precipitation is 39 inches.

Getzville Series: The Getzville series consists of deep, poorly drained and very poorly drained soils formed in silty lacustrine sediments that overlie sandy lacustrine sediments. These nearly level soils occupy slight depressional areas on lake plains. Permeability is moderate to moderately slow in the solum and moderately rapid in the substratum. Slope ranges from 0 to 3 percent. Mean annual temperature is 49°F and mean annual precipitation is 36 inches.

The U.S. Department of Agriculture's National Technical Committee for Hydric Soils Criteria has developed a list of soils that often display hydric soil characteristics. Hydric soil typically forms in places of the landscape where surface water periodically collects for some time and/or where groundwater discharges sufficient to create waterlogged or anaerobic soils. Such anaerobic soils can support the growth and survival of hydrophytic vegetation that is tolerant of such conditions. The Hydric Rating indicates the proportion of map units that meets the criteria for hydric soils. Soil units are designated as "hydric," "predominantly hydric," "partially hydric," "predominantly nonhydric," or "nonhydric" depending on the hydric rating of its respective components. "Hydric" means that all components listed for a given map unit are rated as being hydric. "Predominantly hydric" means components that comprise 66 to 99 percent of the map unit are rated as hydric. "Partially hydric" means components that comprise 33 to 66 percent of the map unit are rated as hydric. "Predominantly nonhydric" means components that comprise up to 33 percent of the map unit are rated as hydric. "Nonhydric" means that none of the components are rated as hydric. Wetland hydrologic conditions, hydric soils, and hydrophytic vegetation are the three criteria of a wetland.

4. NYSDEC Freshwater Wetlands Map

The NYSDEC Freshwater Wetlands map (Figure 4) obtained from the online NYSDEC Environmental Resource Mapper displays the 500-foot check zone to state jurisdictional Freshwater Wetland CC-35 within and adjacent to the investigation area.

5. USGS StreamStats Drainage Map

The USGS StreamStats map (Figure 7) depicts no blue-line streams within the investigation area.

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6. FEMA Flood Map

The Federal Emergency Management Agency (FEMA) flood map (Figure 11) obtained from the National Flood Hazard Layer on-line map shows the investigation area within a flood zone identified as X. This zone represents an area with a 0.2 percent annual chance flood hazard.

B. RESULTS OF AGENCY INFORMATION REVIEW

The preliminary data review revealed that the Corps may have jurisdiction over wetlands at the project location. The evidence consisted of potential federally regulated wetlands on the NWI map (Figure 2) and hydric soils and soils with possible hydric inclusions depicted within the project area as shown on the NRCS map (Figure 3). The preliminary data review indicated that NYSDEC may have jurisdiction over wetlands on site as depicted on the NYSDEC Resource Mapper (Figure 4). Therefore, it was considered necessary to perform a field investigation at the site in order to determine the presence of federal and state protected wetlands. The methods specified in the Corps of Engineers Wetlands Delineation Manual (January 1987) and Northcentral and Northeast Regional Supplement Version 2.0 (January 2012) were employed during the field investigation. Procedures, results, and conclusions of the wetland delineation study are presented in the remainder of this report.

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SECTION IV: FIELD INVESTIGATION PROCEDURES

WETLANDS:

Step 1

EDI applied methodology specified by the 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region to perform a delineation of Federal jurisdictional wetlands within the site. EDI used the Level 2 Routine Determination method (on-site inspection necessary) since insufficient information was available for making a determination for the entire project area. This methodology is consistent with Part IV, Section D of the Corps Manual.

Step 2

EDI's initial evaluation of the project area revealed that no atypical situations existed. If an atypical situation had existed, EDI would have used methodology outlined in Part IV, Section F of the Corps manual and/or Section 5 of the Northcentral and Northeast Supplement.

Step 3

EDI made the determination that normal environmental conditions were present, as the area was not lacking hydrophytic vegetation or hydrologic indicators due to annual, seasonal or long-term fluctuations in precipitation, surface water, or groundwater levels. The Northcentral and Northeast Supplement defines the growing season as beginning when one of the following indicators of biological activity are evident in a given year: (1) above-ground growth and development of vascular plants and/or (2) soil temperature measured at 12" below ground surface reaches 41ºF. The end of the growing season is defined as the point at which deciduous species lose their leaves or the last herbaceous plants cease flowering and their leaves become dry or brown, whichever comes latest.

Step 4

In order to accurately identify the limits of various vegetative communities and extent of wetlands on-site, a routine determination method was used. As depicted in Appendix A and included in Appendix B, three (3) data points were used to characterize the site.

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Step 5

The plant community inhabiting each observation point was characterized in accordance with methods specified in the Northcentral and Northeast Regional Supplement. Dominant plant species were identified within four vegetative strata (i.e. herb, sapling/shrub, tree and liana (woody vines) at each sampling point. The Northcentral and Northeast Regional Supplement defines the vegetative strata in the following manner:

Herb – A non-woody individual of a macrophytic species. Seedlings of woody plants (including vines) that are less than 3.28 feet in height are considered to be herbs.

Sapling/Shrub – A layer of vegetation composed of woody plants < 3.0 inches in diameter at breast height but greater than 3.28 feet in height, exclusive of woody vines.

Tree – A woody plant > 3.0 inches in diameter at breast height, regardless of height (exclusive of woody vines)

Liana – A layer of vegetation in forested plant communities that consist of woody vines greater than 3.28 feet in height.

As outlined in the manual, the quadrant sizes used for the vegetative strata were (i) a 3.28-foot radius for herbs; (ii) a ten-foot radius for saplings/shrubs and woody vines; and (iii) a 30-foot radius for trees. Dominant plant species were estimated using aerial coverage methods. Dominant species are defined in the Corps Manual as the most abundant plant species that when ranked in descending order of abundance and cumulatively totaled immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species comprising 20 percent or more of the total dominance measure.

The wetland indicator status (OBL, FACW, FAC, FACU, or UPL) listed for each identified species by the U.S. Fish and Wildlife Service in the National List of Plant Species that Occur in Wetlands: Northeast (Region 1) was recorded. The U.S. Fish and Wildlife wetland indicator status listings are defined as follows:

OBL – Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability < 1 percent) in nonwetlands.

FACW – Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands, but also occur (estimated probability 1 percent to 33 percent) in nonwetlands.

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FAC – Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and nonwetlands.

FACU – Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands but occur more often (estimated probability >67 percent to 99 percent) in nonwetlands.

UPL – Plants that occur rarely (estimated probability < 1 percent) in wetlands but occur almost always (estimated probability >99 percent) in nonwetlands under natural conditions.

The plant community data was summarized on the data forms provided in the Northcentral and Northeast Regional Supplement included in this report as Appendix B.

Step 6

Plant data from each observation point were tested against the hydrophytic vegetation criterion specified in the Corps Manual and Northcentral and Northeast Regional Supplement. The Northcentral and Northeast Regional Supplement identifies a four-tiered approach for making a determination of whether or not the hydrophytic vegetation criteria is met for a sample plot. Indicator 1 (Rapid Test for Hydrophytic Vegetation) was first applied to determine if all dominant species across all strata are rated OBL and/or FACW. If Indicator 1 did not meet the hydrophytic vegetation criteria, Indicator 2 was then applied (dominance test); if greater than 50% of all plant species across all strata were rated OBL, FACW, or FAC, the hydrophytic vegetation criteria was considered met. In rare cases, when Indicators 1 and 2 did not meet the hydrophytic vegetation criteria but soils and hydrology criteria were met, Indicators 3 (Prevalence Index) and 4 (Morphological Adaptations) were used to make a final determination. All observation points that met the hydrophytic vegetation criterion were considered potential wetlands. Soils were then characterized.

Step 7

The Corps Manual specifies that soils need not be characterized (and are assumed hydric soils) at sampling points meeting the hydrophytic vegetation criterion if: (i) all dominant plant species have an indicator status of OBL, or (ii) all dominant species have an indicator status of OBL and/or FACW, and the wetland boundary is abrupt (at least one dominant OBL species must be present). All observation points sampled during this field investigation were examined directly for soil and hydrologic characteristics.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Step 8

At observation points requiring a soil evaluation, soil borings were performed by an EDI Soil Scientist using methods specified in the Northcentral and Northeast Regional Supplement. Soil pits were dug using a tile spade. Testpits were generally dug to a depth of 20 inches below ground surface. Soils were examined for any of the hydric soil indicators, as outlined in the Field Indicators of Hydric Soils in the United States. A determination was made as to whether or not the hydric soil criterion was met. Soils data was recorded on the data forms included in Appendix B of this report.

Step 9

EDI's Soil Scientist examined hydrologic indicators using methods specified by the Northcentral and Northeast Regional Supplement at each observation point. The wetland hydrology criterion was met if: (i) one or more primary field indicators was materially present, (ii) available hydrologic records provided necessary evidence, or (iii) two or more secondary indicators were present. Results were recorded on data forms taken from the Corps Manual and are included in this report as Appendix B.

Step 10

A wetland determination was made for every observation point. If a sample plot met the hydrophytic vegetation, hydric soil, and wetland hydrology criteria, the area was considered to be wetland.

Step 11

Based on the results of the transected data, wetland boundaries were established for each identified wetland using survey ribbon labeled “wetland delineation” and numbered consecutively along each wetland boundary. As outlined in the Corps Manual, the placement of flags was based on the limits of areas where all three parameters were met. Wetland flags were labeled W1-1 through W1-28.

STREAMS & DRAINAGES:

The federally regulated Ordinary High Water (OHW) mark of streams within the Project area were delineated utilizing the definitional criteria as presented in Title 33, Code of Federal Regulations, Part 328, and the USACE Regulatory Guidance Letter 05-05 – Guidance on Ordinary

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

High Water Mark Identification. Each stream is categorized in regard to its flow regime as perennial, intermittent, or ephemeral, as defined by the USACE. The Ordinary High Water (OHW) mark for each stream is surveyed using the Trimble Geo 7X GPS. Each stream is assigned a letter designation, and survey points are numbered consecutively. Substrate characteristics and water depth are noted. Streams classified as AA, A, B, C, C(t), C(ts) and D in the State of New York are regulated by NYSDEC under Article 15 Use and Protection of Waters. Streams are given classifications which designate the level of protection afforded to each waterbody. Class AA and A are assigned to sources of drinking water. Class B streams are best suited for swimming and other contact recreation, but not drinking water. Class C streams identify waters that support fishing and non-contact activities. A classification with (t) designated a stream with the potential to support trout populations. A classification of (ts) identifies waters that may support trout spawning. Class D waters are the lowest classification and are often highly imperiled.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

SECTION V: RESULTS AND CONCLUSIONS

Earth Dimensions, Inc. (EDI) has completed a wetland delineation study at the 5500 Millersport Highway site located in the Town of Amherst, County of Erie, and State of New York. A field investigation was conducted by a Soil Scientist and a Wetland Ecologist from EDI. The wetland delineation study identified one (1) wetland totaling 2.92± acres present within the 5500 Millersport Highway site. No streams or waterbodies were identified within the investigation area.

Figure 5 depicts the vegetative communities as they existed at the time of the investigation. The upland within the investigation area was comprised of a mown lawn community. The wetland area was found to consist of a scrub-shrub swamp community. The vegetative communities of the investigation area are described according to Ecological Communities of New York State (Edinger et al. 2014).

The mown lawn community was dominated by the following species: Kentucky bluegrass (*Poa pratensis*) and white clover (*Trifolium repens*).

Wetland W1 is a 2.92± acre scrub-shrub swamp dominated by eastern cottonwood (*Populus deltoides*), pin oak (*Quercus palustris*), Bebb's willow (*Salix bebbiana*), green ash (*Fraxinus pennsylvanica*), calico aster (*Symphyotrichum lateriflorum*), and sensitive fern (*Onoclea sensibilis*). Soils within wetland W1 are mapped as Getzville silt loam and had topsoil colors of 10YR4/2 with 15% 10YR5/8 mottles and 10YR4/1 with 5% 10YR5/8 mottles. Wetland W1 had a subsoil color of 10YR5/1 with 15% 10YR5/8 mottles. The texture is silt loam, silty clay loam, and silty clay. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W1 included Water-Stained Leaves (B9).

A map which depicts the site boundaries and the location of all observation points established during the field survey is included as Figure 6 in Appendix A of this report. Data forms are included as Appendix B. Appendix C includes representative photographs of the project area. Appendix D notes the references used during the preparation of this report and during the field investigation. Appendix E provides the names, addresses and phone numbers of the survey personnel involved in the wetland delineation study.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

SECTION VI: RECOMMENDATIONS

One (1) wetland area was identified during the course of a field investigation based upon the three-parameter technique (vegetation, soils, and hydrology) outlined in the Corps Manual and Northcentral and Northeast Regional Supplement. EPA provided preliminary guidance on August 29, 2023 in response to the May 25, 2023, the U.S. Supreme Court ruling in the Sackett v EPA case. USACE and NYSDEC approach their regulatory analyses by first considering avoidance of wetlands and minimization of wetland losses. EDI recommends the following:

(1) Submit this report to USACE and NYSDEC with a request for a wetland boundary confirmation and jurisdictional determination.

(2) If no impacts are proposed to federal or state regulated wetlands or state regulated 100-foot adjacent area based on the outcome of the jurisdictional determination, it is the professional opinion of EDI that the project may proceed without the need for Section 404, or Article 24 Permits.

(3) If any NYSDEC regulated upland adjacent area or federal or state jurisdictional wetland impacts are proposed, it is EDI's recommendation that a Joint Application for Permit and supporting documentation be submitted to the USACE and NYSDEC with a request for a Section 404 Permit, Section 401 Water Quality Certification, and/or an Article 24 Permit.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX A - FIGURES

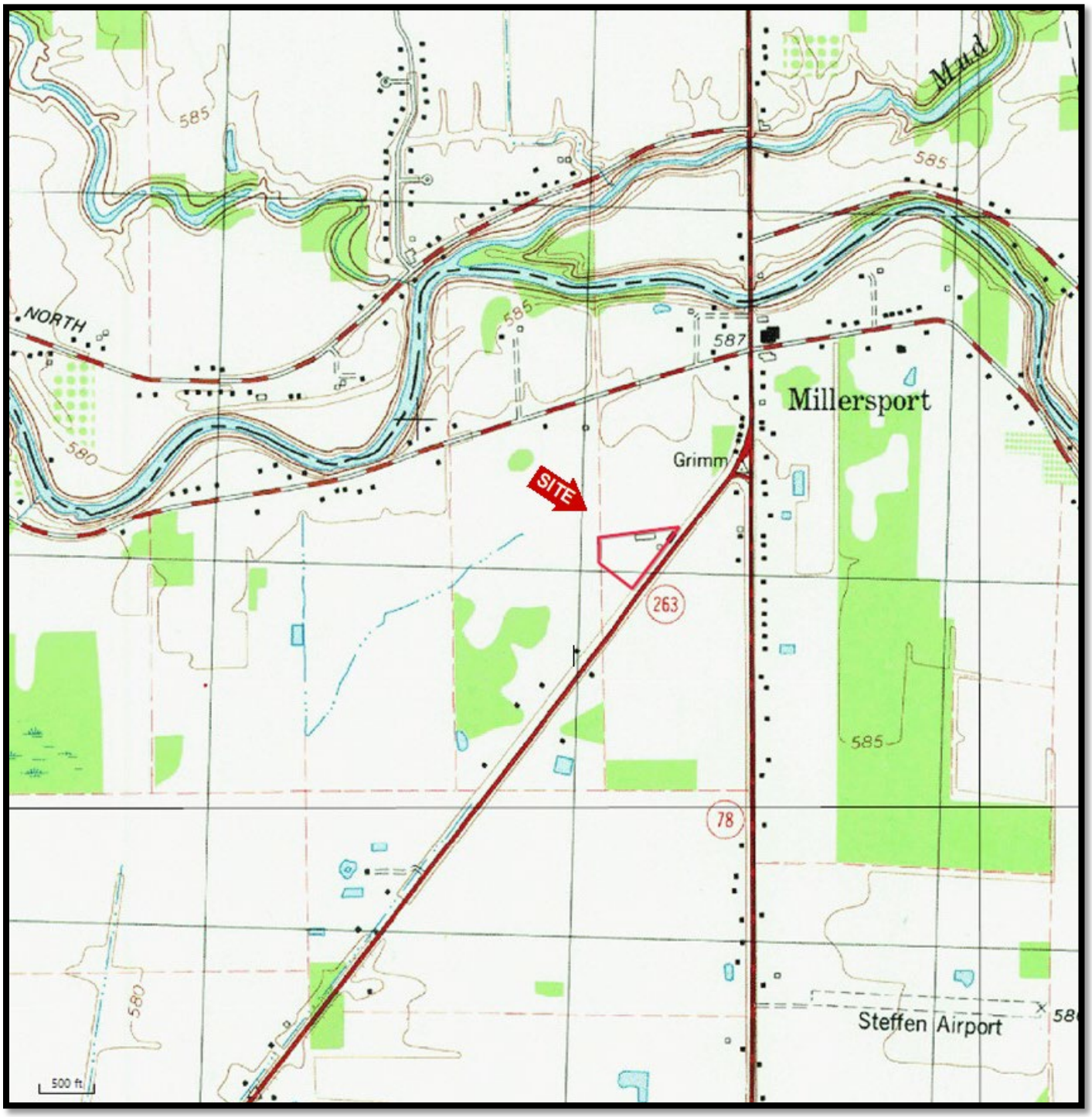


FIGURE 1: USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Clarence Center Quadrangle / U.S. Geological Survey

5500 Millersport Highway

Town of Amherst, Erie County, New York

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



FIGURE 2: NATIONAL WETLANDS INVENTORY MAP

http://www.fws.gov/wetlands/data/mapper.HTML (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

FIGURE 3: NRCS SOIL SURVEY MAP

http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York

Hydric Rating by Map Unit—Erie County, New York
(Parcel)

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Lines
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Points
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 23, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 28, 2020—Jul 4, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Cc	Canandaigua silt loam	95	1.2	23.5%
Ge	Getzville silt loam	85	3.8	76.5%
Totals for Area of Interest			**4.9**	**100.0%**

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



FIGURE 4: NYSDEC ENVIRONMENTAL RESOURCE MAPPER

https://gisservices.dec.ny.gov/gis/erm/ (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York

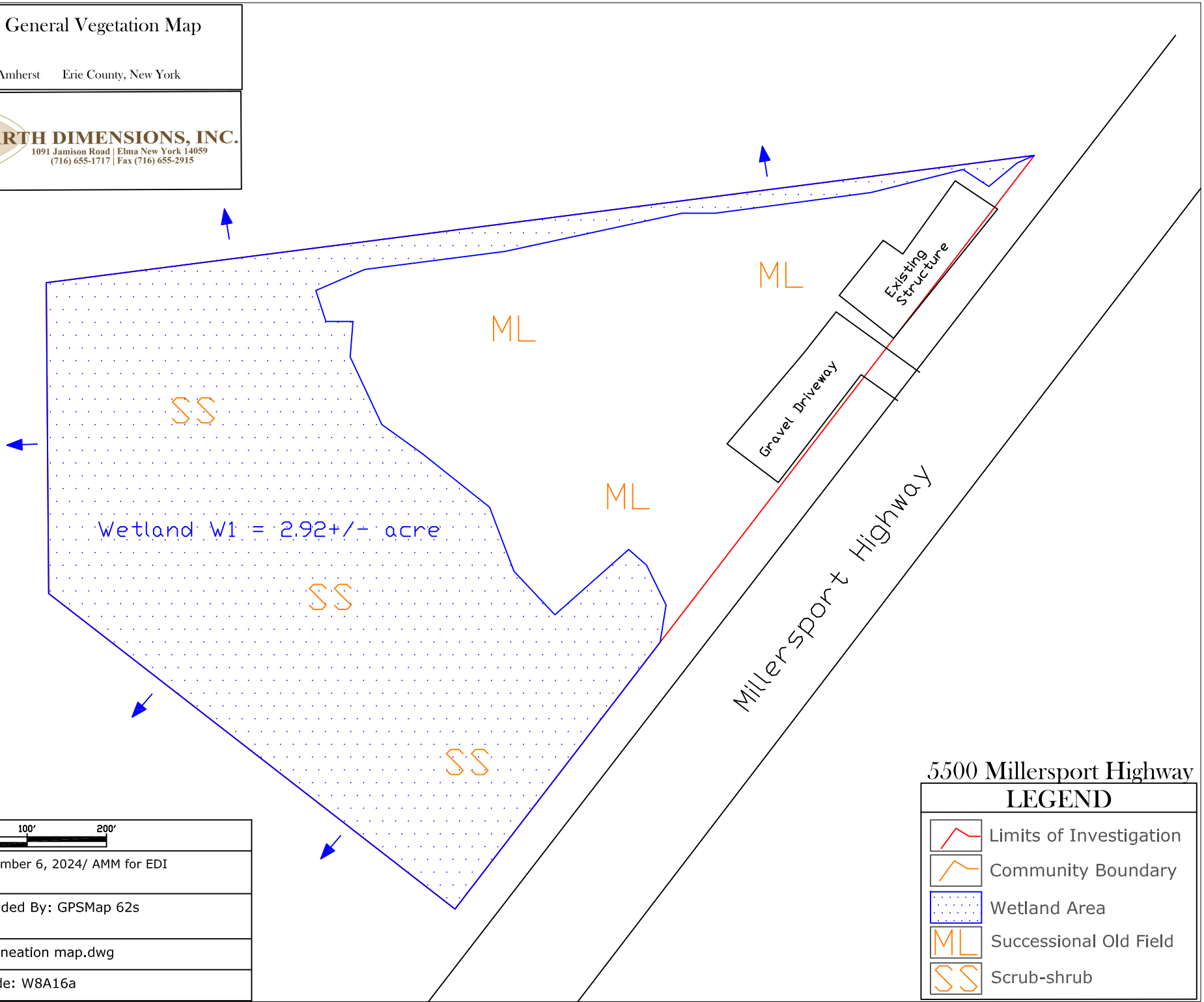
Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

ure 5 - General Vegetation Map

Town of Amherst Erie County, New York

EARTH DIMENSIONS, INC.
1091 Jamison Road | Elma New York 14059
(716) 655-1717 | Fax (716) 655-2915



5500 Millersport Highway

LEGEND

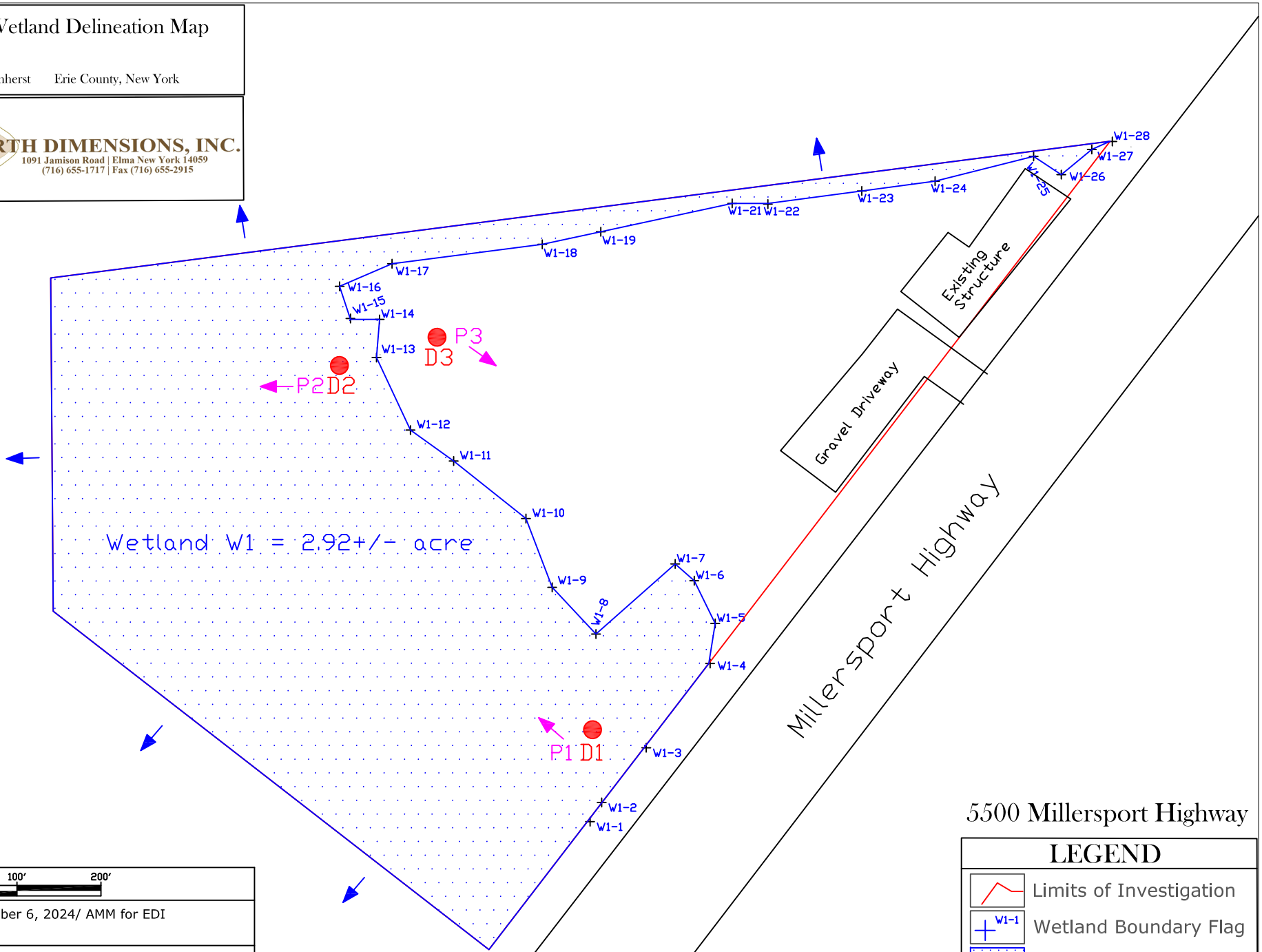
- Limits of Investigation
- Community Boundary
- Wetland Area
- ML Successional Old Field
- SS Scrub-shrub

Scale: 0 100′ 200′
Map Date: September 6, 2024/ AMM for EDI Revised:
Base Map Provided By: GPSMap 62s
File Name: Delineation map.dwg
EDI Project Code: W8A16a

ıre 6 - Wetland Delineation Map

Town of Amherst Erie County, New York

EARTH DIMENSIONS, INC.
1091 Jamison Road | Elma New York 14059
(716) 655-1717 | Fax (716) 655-2915

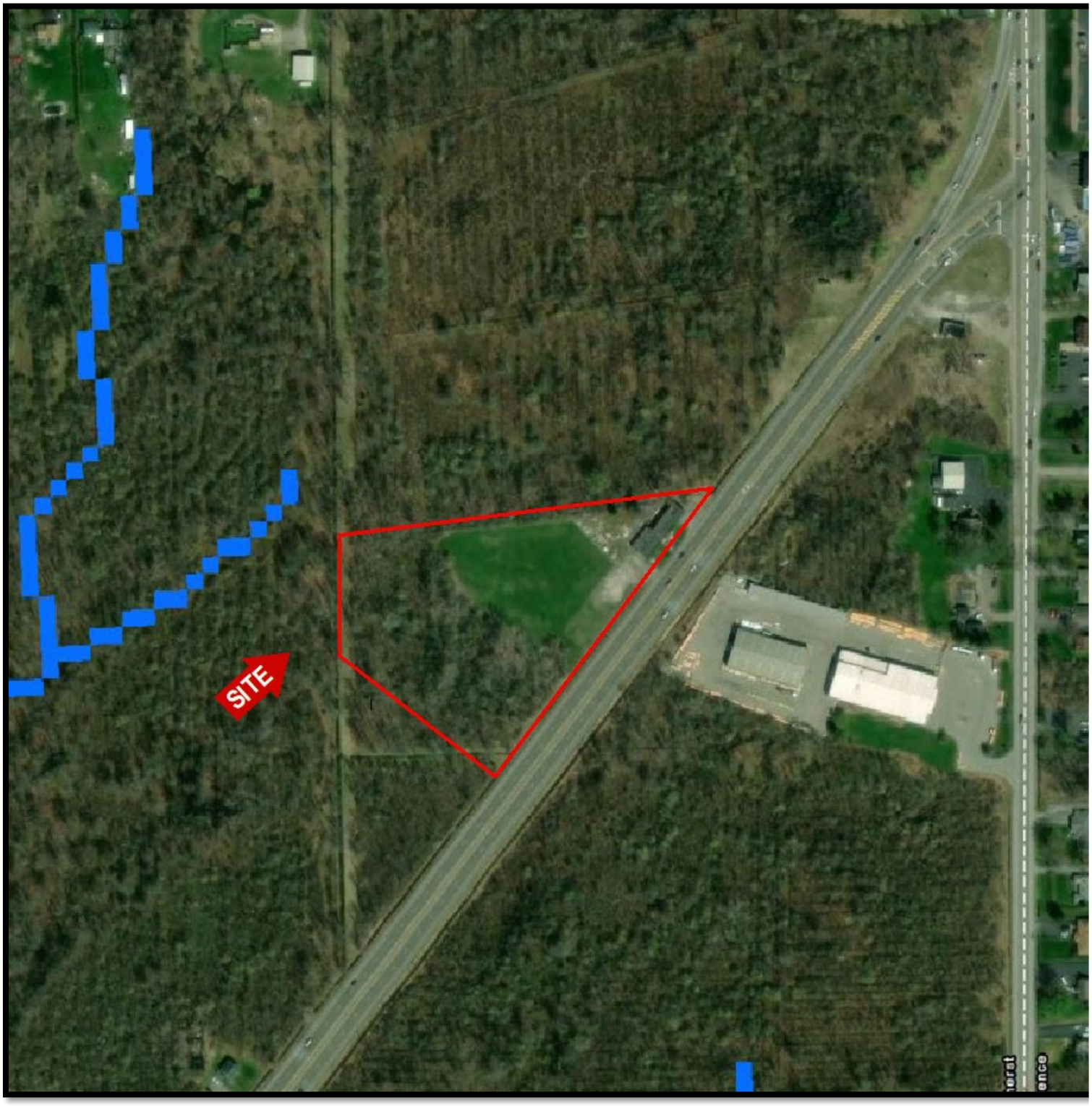


5500 Millersport Highway

LEGEND

- Limits of Investigation
- W1-1 Wetland Boundary Flag
- Wetland Area
- P1 Photo Location
- D1 Data Point Location

Scale: 0 100′ 200′
Map Date: September 6, 2024/ AMM for EDI Revised:
Base Map Provided By: GPSMap 62s
File Name: Delineation map.dwg
EDI Project Code: W8A16a



Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

FIGURE 7: DRAINAGE MAP

https://streamstats.usgs.gov/ss/ (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York



FIGURE 8: SITE AERIAL PHOTOGRAPH

https://gis.erie.gov/public/HTML5/ErieCountyNY/ (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Figure 9 - Aerial Photo with Wetlands

Town of New Haven Oswego County, New York

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

gure 10 - Soils Map with Wetlands

Town of New Haven Oswego County, New York

EARTH DIMENSIONS, INC.
1091 Jamison Road | Elma New York 14059
(716) 655-1717 | Fax (716) 655-2915



National Flood Hazard Layer FIRMette

FEMA

78°42'21"W 43°5'2"N



78°41'44"W 43°4'35"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BF Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, V
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazar as of 1% annual chance flood with a depth less than one foot or with d areas of less than one square mil
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk du Levee. See Notes. Zone X
- Area with Flood Risk due to Levee

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard Zo
- Effective LOMRs
- Area of Undetermined Flood Haza

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Ch
- Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an appro point selected by the user and does not r an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This ma was exported on 9/6/2024 at 12:01 PM and does not reflect changes or amendments subsequent to this date an time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following n elements do not appear: basemap imagery, flood zone labe legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized area regulatory purposes.

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX B – DATA SHEETS

Project Code: W8A16a

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 5500 Millersport Highway Town/County: Amherst/Erie County Sampling Date: September 6, 2024

Applicant/Owner: Stephens Plumbing & Heating, Inc. State: New York Sampling Point: D1

Investigator(s): Scott Livingstone & Alex Molik Section, Township, Range: 4.00-3-20

Landform (hillslope, terrace, etc.): LAKE PLAIN Local relief (concave, convex, none): NONE Slope (%): <1

Subregion (LRR or MLRA) LRRL Lat: 43.07955°N Long: -78.79058°W Datum: NAD83

Soil Map Unit Name: GETZVILLE SILT LOAM NWI classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: W1

Remarks: (Explain alternative procedures here or in a separate report.)

• W1-1 → W1-28 (OPEN)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

VEGETATION : Use scientific names of plants. Sampling Point: D1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	15	Y	FAC
2. Quercus palustris	10	Y	FACW
3. Fraxinus pennsylvanica	5	N	FACW
4.			
5.			
6.			
7.			
	30	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15')			
1. Salix babbiana	30	Y	FACW
2. Populus deltoides	15	Y	FAC
3. Fraxinus pennsylvanica	5	Y	FACW
4. Lonicera tatarica	10	N	FACU
5. Quercus palustris	5	N	FACW
6.			
7.			
	75	= Total Cover	

Herb Stratum (Plot size: 5')			
1. Fraxinus pennsylvanica	25	Y	FACW
2. Symphyotrichum lanceolatum	20	Y	FAC
3. Onoclea sensibilis	15	Y	FACW
4. Persicaria virginiana	10	N	FAC
5. Glyceria striata	5	N	OBL
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	75	= Total Cover	

Woody Vine Stratum (Plot size: 30')			
1. Vitis aestivalis	5	Y	FACU
2.			
3.			
4.			
	5	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 9 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 88.9 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is < 3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: Floodplain Swamp

Hydrophytic Vegetation Present? Yes X No ___

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P1 **Direction of Photo** NW

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

SOIL Sampling Point: D1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR4/2	85	10YR5/8	15	C	M	SiCl	
4-20	10YR5/1	85	10YR5/8	15	C	M	SiC	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Project Code: W8A16a

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 5500 Millersport Highway Town/County: Amherst/Erie County Sampling Date: September 6, 2024

Applicant/Owner: Stephens Plumbing & Heating, Inc. State: New York Sampling Point: D2

Investigator(s): Scott Livingstone & Alex Molik Section, Township, Range: 4.00-3-20

Landform (hillslope, terrace, etc.): LAKEPlain Local relief (concave, convex, none): CONCAVE Slope (%): <1

Subregion (LRR or MLRA) LRRL Lat: 43.08050°N Long: -78.70123°W Datum: NAD83

Soil Map Unit Name: Getzville Silt loam NW I classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: W1

Remarks: (Explain alternative procedures here or in a separate report.)

• W1-1 → W1-28 (OPEN)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

VEGETATION : Use scientific names of plants. Sampling Point: D2

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Fraxinus pennsylvanica	15	Y	FACW
2. Populus deltoides	5	Y	FAC
3.			
4.			
5.			
6.			
7.			
	20	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15')			
1. Salix bebbiana	35	Y	FACW
2. Fraxinus pennsylvanica	15	Y	FACW
3. Quercus palustris	10	N	FACW
4. Lindera benzoin	5	N	FACW
5.			
6.			
7.			
	105	= Total Cover	

Herb Stratum (Plot size: 5')			
1. Onoclea sensibilis	45	Y	FACW
2. Fraxinus pennsylvanica	20	Y	FACW
3. Persicaria virginiana	15	N	FAC
4. Glyceria striata	10	N	OBL
5. Agrimonia parviflora	5	N	FAC
6. Solidago rugosa	5	N	FAC
7.			
8.			
9.			
10.			
11.			
12.			
	100	= Total Cover	

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals:	(A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is < 3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: Scrub-Shrub Swamp

Hydrophytic Vegetation Present? Yes X No ___

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P2 **Direction of Photo** W

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

SOIL Sampling Point: DZ

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 4/1	95	10YR 5/8	5	C	M	S: J+	
6-20	10YR 5/1	85	10YR 5/8	15	C	M	S: el-	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Project Code: W8A16a

1.a

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 5500 Millersport Highway Town/County: Amherst/Erie County Sampling Date: September 6, 2024

Applicant/Owner: Stephens Plumbing & Heating, Inc. State: New York Sampling Point: D3

Investigator(s): Scott Livingstone & Alex Molik Section, Township, Range: 4.00-3-20

Landform (hillslope, terrace, etc.): Fill PAD Local relief (concave, convex, none): CONVEX Slope (%): 3

Subregion (LRR or MLRA) LRRL Lat: 43.08632°N Long: -78.70119°W Datum: NAD83

Soil Map Unit Name: Getzville Silt loam NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil X, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: N/A

Remarks: (Explain alternative procedures here or in a separate report.)

UPLAND LAWN/FILL PAD

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season W ater Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

VEGETATION : Use scientific names of plants.

Sampling Point: D3

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Herb Stratum (Plot size: 5')			
1. Poa pratensis	35	Y	FACU
2. Trifolium repens	25	Y	FACU
3. Lotus corniculatus	20	N	FACU
4. Taraxacum officinale	10	N	FACU
5. Centaurea stoebe	10	N	NI
6. Solidago rugosa	5	N	FACU
7.			
8.			
9.			
10.			
11.			
12.			
	105 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	95	x 4 =	380
UPL species	0	x 5 =	0
Column Totals:	95 (A)		380 (B)

Prevalence Index = B/A = 4.0

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is < 3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: Mowed Lawn

Hydrophytic Vegetation Present? Yes ___ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 93 **Direction of Photo** SE

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

SOIL

Sampling Point: D3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR3/1	100					Sicl	Fill

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: HARD Fill

Depth (inches): 3"

Hydric Soil Present? Yes _____ No X

Remarks:

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX C - SITE PHOTOGRAPHS



Photo 1: Facing northwest. Depicts the scrub-shrub swamp community of W1 at data point D1. 9/6/24



Photo 2: Facing west. Depicts the scrub-shrub swamp community of W1 data point D2. 9/6/24



Photo 3: Facing southeast. Depicts the mown lawn community of data point D3. 9/6/24

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX D - REFERENCES

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Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX E – PROJECT CONTACT DETAILS

Wetland Personnel:

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STEPHENS PLUMBING & HEATING INC.
5500 MILLERSPORT HIGHWAY
EAST AMHERST, NEW YORK 14051
KJS@STEPHENSPLUMBINGNY.COM
(716) 512-9451

Landowner Contact:

5500 Millersport Highway LLC
Company/organization
Mailing address (Street number and name)
Mailing Address (City, State, Zip)
Phone #
Email

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix M

NYSSHPO Clearance Letter

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

September 19, 2024

Doug Feyes
Project Mananger
Carmina Wood Design
80 Silo City Row
Suite 100
Buffalo, NY 14203

Re: DEC
Proposed Warehouse Buildings
5500 Millersport Hwy, East Amherst, NY 14051
24PR08408

Dear Doug Feyes:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Campbell Higle at the following email address:

Campbell.Higle@parks.ny.gov

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

Attachment: SP-2024-10 application 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

Proposed Warehouse Buildings

Amherst, New York

AGENCIES

ENGINEERING DEPARTMENT
NAME/TITLE: JEFFERY BURROUGHS, P.E. – TOWN ENGINEER
COMPANY/DEPT: TOWN OF AMHERST ENGINEERING DEPARTMENT
ADDRESS: 1100 NORTH FOREST ROAD
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7154

PLANNING & ZONING DEPARTMENT
NAME/TITLE: DANIEL HOWARD – PLANNING DIRECTOR
COMPANY/DEPT: TOWN OF AMHERST PLANNING DEPARTMENT
ADDRESS: 5583 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7051

BUILDING DEPT.
NAME/TITLE: BERKE, MARK S. – COMMISSIONER OF BUILDING
COMPANY/DEPT.: TOWN OF AMHERST BUILDING DEPT.
ADDRESS: 5583 MAIN ST.
AMHERST, NEW YORK 14221
TELEPHONE 716–631–7080

ECDOH
NAME/TITLE:
COMPANY/DEPT:. ERIE COUNTY DEPARTMENT OF HEALTH
ADDRESS: 503 KENSINGTON AVE
BUFFALO, NEW YORK 14214
TELEPHONE 716–961–6854

NYSDEC
NAME/TITLE:
COMPANY/DEPT: NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
ADDRESS: 700 DELAWARE AVE.
BUFFALO, NEW YORK 14209
TELEPHONE 716–851–7070

UTILITIES

NATURAL GAS
COMPANY/DEPT:. NATIONAL FUEL GAS CORP.
ADDRESS: 6363 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–857–7000

TELEPHONE COMPANY
COMPANY/DEPT: VERIZON
ADDRESS: 65 FRANKLIN STREET
BUFFALO, NEW YORK 14203
TELEPHONE 716–840–8748

CABLE COMPANY
COMPANY/DEPT: TIME WARNER
ADDRESS: 789 CHURCH ROAD
WEST SENECA, NEW YORK
TELEPHONE 716–558–8615

ELECTRIC COMPANY
COMPANY/DEPT: NATIONAL GRID
ADDRESS: 144 KENSINGTON AVENUE
BUFFALO, NEW YORK 14214
TELEPHONE 716–236–2738

WATER
COMPANY/DEPT:. ERIE COUNTY WATER AUTHORITY
ADDRESS: 3030 UNION ROAD
CHEEKTOWAGA, NEW YORK 14227
TELEPHONE 716–684–1510

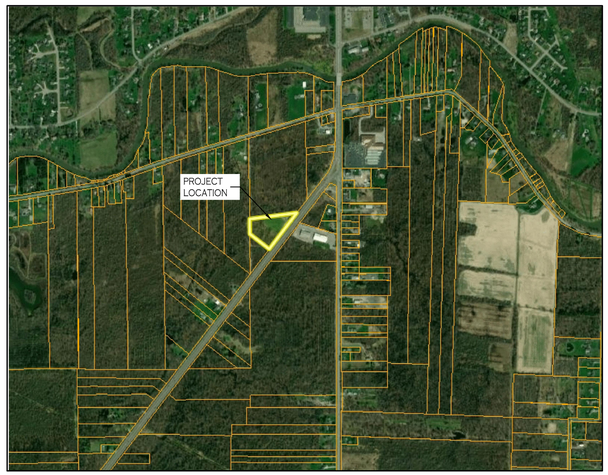
DIG SAFELY NEW YORK
TELEPHONE 1–800–962–7962

DESIGN CONSULTANTS

PROJECT SURVEYOR
NAME/TITLE:
COMPANY/DEPT:. GPI ENGINEERING, LANDSCAPE, ARCHITECTURE & SURVEYING, LLP
ADDRESS: 4950 GENESEE STREET, SUITE 100
BUFFALO, NEW YORK 14225
TELEPHONE 716–633–4844

OWNER/DEVELOPER

NAME: STEPHENS PLUMBING
ADDRESS 5500 MILLERSPORT HIGHWAY
EAST AMHERST, NY 14051
CONTACT: KEVIN STEPHENS
TELEPHONE 716-512-9451



CARMINAWOOD DESIGN

DRAWING NO.	DRAWING TITLE
–	COVER SHEET
–	LAND SURVEY (PREPARED BY GPI ENGINEERING)
C–001	EROSION CONTROL PLAN
C–002	EROSION CONTROL DETAILS
C–100	SITE PLAN
C–101	SITE DETAILS
C–200	GRADING PLAN
C–300	STORM DRAINAGE PLAN
C–301	BASIN DETAILS
C–302	STORM DRAINAGE DETAILS
C–400	UTILITY PLAN
C–401	UTILITY DETAILS
C–402	UTILITY DETAILS
C–403	UTILITY DETAILS
C–404	UTILITY DETAILS
L–100	LANDSCAPE PLAN
L–101	LANDSCAPE DETAILS
LP–100	LIGHTING PLAN

November 2024

Proposed Warehouse Buildings
Amherst, New York

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

NOTE: THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE.

● SET OR EX. 5/8" REBAR

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NORTH

WEST LINE OF LOT 1, TWP 13, RGE 7 PER DEED

EX IP
3.13'S
0.53'E.

S88°25'48"E

737.32' MAP & MEAS.

228.36' MAP & MEAS.

CENTERLINE DITCH

EX REBAR
0.32'N
0.23'W.

TOP OF DITCH

BOTTOM OF DITCH

GRASS AREA

GRAVEL PARKING LOT

EDGE OF WOODS

WOODS & BRUSH

EX REBAR
0.05'W.

EXCEPTION PARCEL
LIBER 7189, PAGE 621

391.16' MAP & MEAS.
S86°16'

LANDS APPROPRIATED BY THE STATE OF NEW YORK
MAP NO.18, PARCEL NO.177

HIGHWAY BOUNDARY AS A 150' WIDE HIGHWAY

713.65'

EX REBAR
15.00'

NO MONUMENT

MEASURED TO THE WEST LINE OF LOT 1

398.74' MAP & MEAS.

GP SETS NAIL

EDGE OF PAVEMENT

SOLID WHITE LINE

DASHED WHITE LINE

SOLID YELLOW LINE

DASHED YELLOW LINE

POST AND RAIL FENCE

EDGE OF WOODS

HIGHWAY

MILLERSPORT (130' WIDE)
N.Y. RTE. 263

498.21

UP

10" WATER MAIN

UNKNOWN VAULT

2 STORY BRICK BUILDING
FF=584.83

STUCCO & FRAME BUILDING
FF=584.75

2 STORY FRAME AND STUCCO BUILDING

TELEPHONE RISER

ELECTRIC PUMP

ELECTRIC

GAS

CABLE TV

TELEPHONE

UNDERGROUND ELEC. AND TELEPHONE

OVERHEAD ELECTRIC

GAS LINE

2" WATER

POST AND RAIL FENCE

DATE	REVISION/TYPE

SURVEY OF
PART OF LOT 1, TOWNSHIP 13, RANGE 7
HOLLAND LAND COMPANY'S SURVEY
TOWN OF AMHERST, ERIE COUNTY, NEW YORK

GPI ENGINEERING, LANDSCAPE ARCHITECTURE & SURVEYING, LLP
ENGINEERING • SURVEYING • LANDSCAPE ARCHITECTURE
4950 GENESEE STREET, SUITE 100
BUFFALO, NEW YORK 14225
(716) 633-4844 FAX 633-4940

Job No. 7535 Date: APRIL 30, 2019
Scale: 1" = 30' TAX No. 4.00-3-20

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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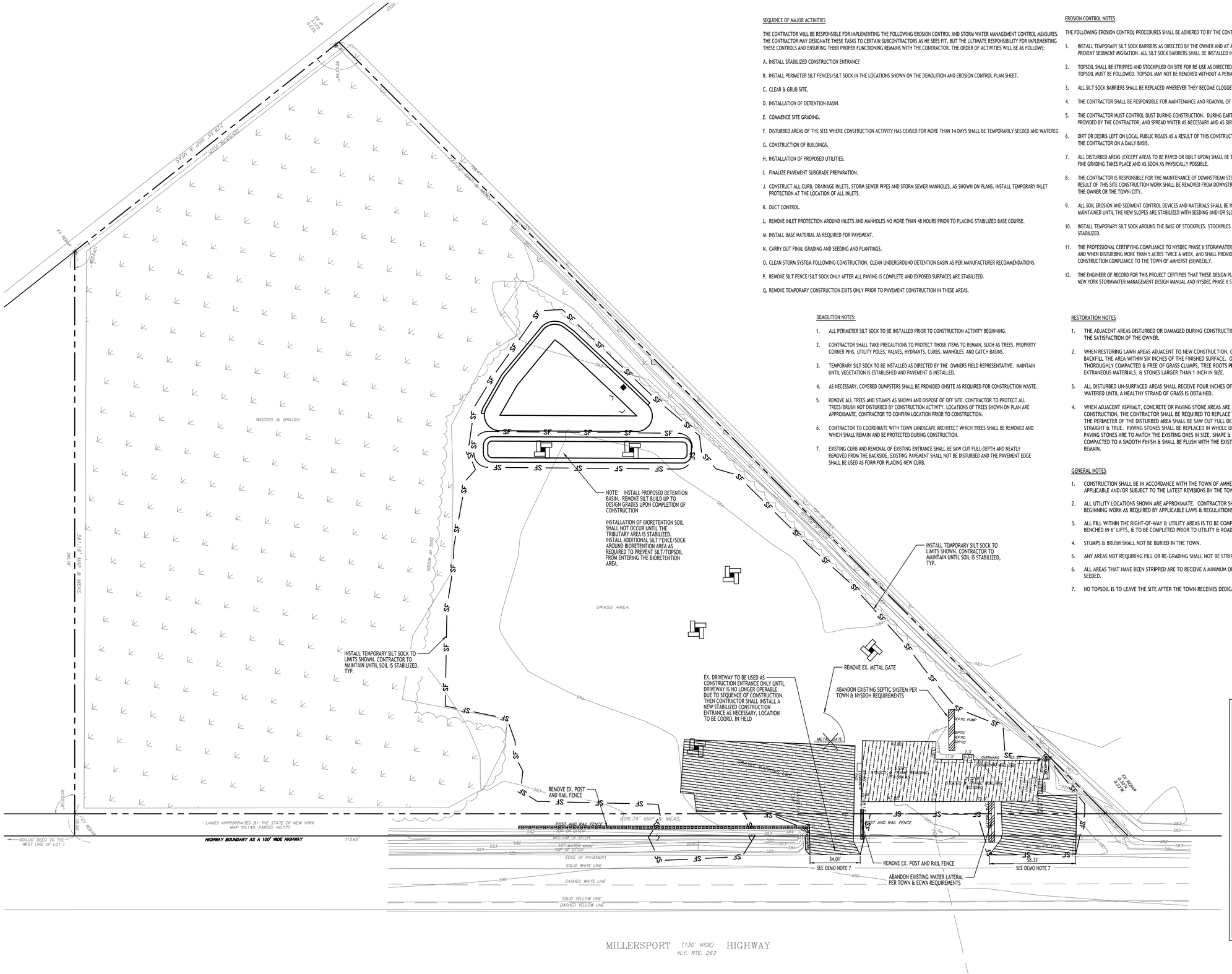
EX. RIGHT OF WAY VARIES
EX. RIGHT OF WAY VARIES
EX. EDGE OF PAVEMENT
WOODS & BRUSH
GRASS AREA
LANDS APPROPRIATED BY THE STATE OF NEW YORK MAP NO.149, PARCEL NO.177
HIGHWAY BOUNDARY AS A 100' WIDE HIGHWAY
500.00' DEED TO THE WEST LINE OF LOT 1
698.74' MAP & MEAS.
713.65'
MILLERSPORT (130' WIDE) HIGHWAY
N.Y. RTE. 263
NOTE: INSTALL PROPOSED DETENTION BASIN. REMOVE SILT BUILD UP TO DESIGN GRADES UPON COMPLETION OF CONSTRUCTION
INSTALLATION OF BIORETENTION SOIL SHALL NOT OCCUR UNTIL THE TRIBUTARY AREA IS STABILIZED. INSTALL ADDITIONAL SILT FENCE/SOCK AROUND BIORETENTION AREA AS REQUIRED TO PREVENT SILT/TOPSOIL FROM ENTERING THE BIORETENTION AREA.
INSTALL TEMPORARY SILT SOCK TO LIMITS SHOWN. CONTRACTOR TO MAINTAIN UNTIL SOIL IS STABILIZED, TYP.
INSTALL TEMPORARY SILT SOCK TO LIMITS SHOWN. CONTRACTOR TO MAINTAIN UNTIL SOIL IS STABILIZED, TYP.
EX. DRIVEWAY TO BE USED AS CONSTRUCTION ENTRANCE ONLY UNTIL DRIVEWAY IS NO LONGER OPERABLE DUE TO SEQUENCE OF CONSTRUCTION. THEN CONTRACTOR SHALL INSTALL A NEW STABILIZED CONSTRUCTION ENTRANCE AS NECESSARY, LOCATION TO BE COORD. IN FIELD
REMOVE EX. METAL GATE
ABANDON EXISTING SEPTIC SYSTEM PER TOWN & NYSDOH REQUIREMENTS
REMOVE EX. POST AND RAIL FENCE
REMOVE EX. POST AND RAIL FENCE
ABANDON EXISTING WATER LATERAL PER TOWN & ECWA REQUIREMENTS
SEE DEMO NOTE 7
SEE DEMO NOTE 7
GRAVEL PARKING LOT
ASPHALT PARKING LOT
EX. 1 STORY BRICK & STONE BUILDING
EX. 1 STORY BRICK & STONE BUILDING
EX. 1 STORY BRICK & STONE BUILDING

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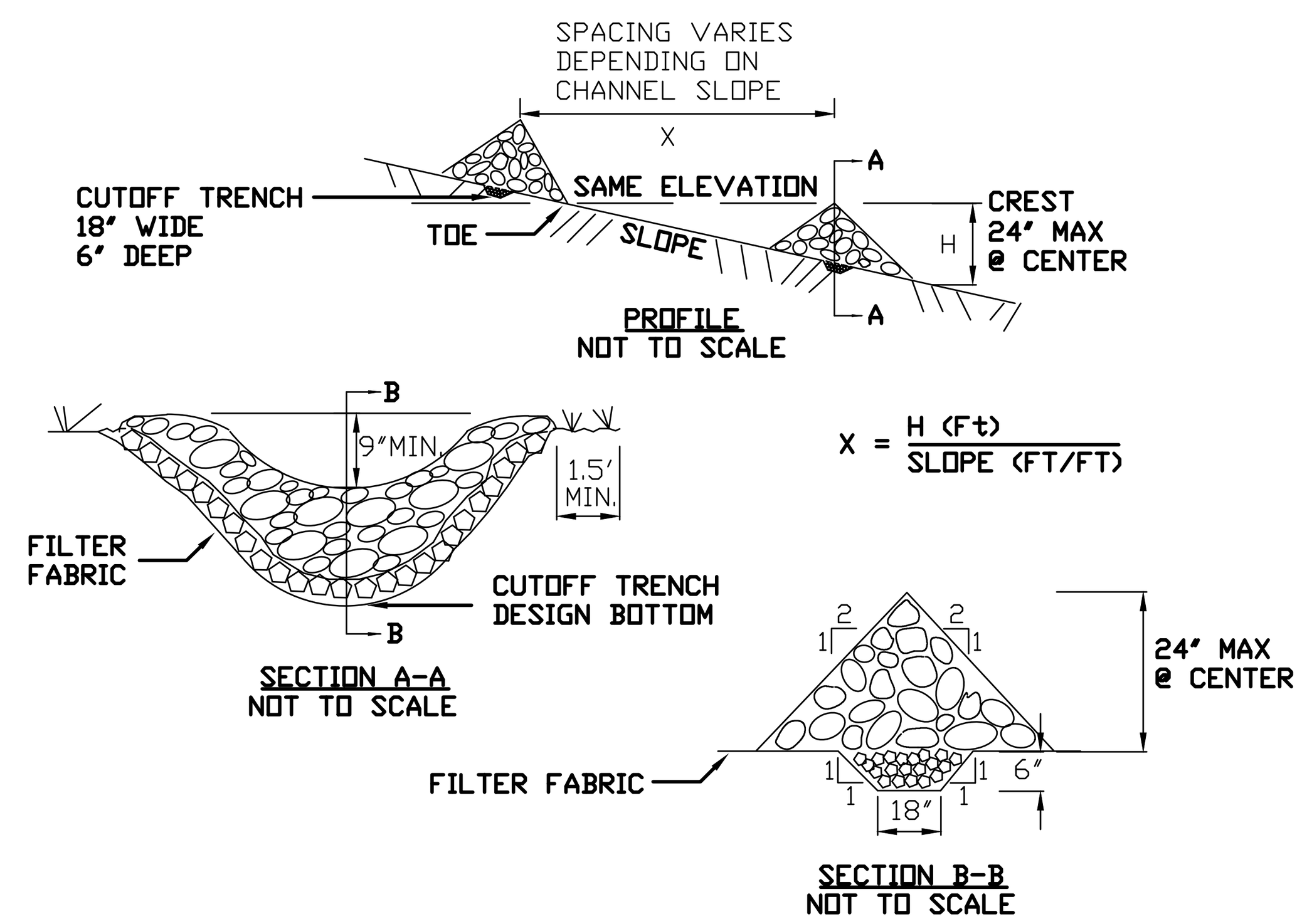


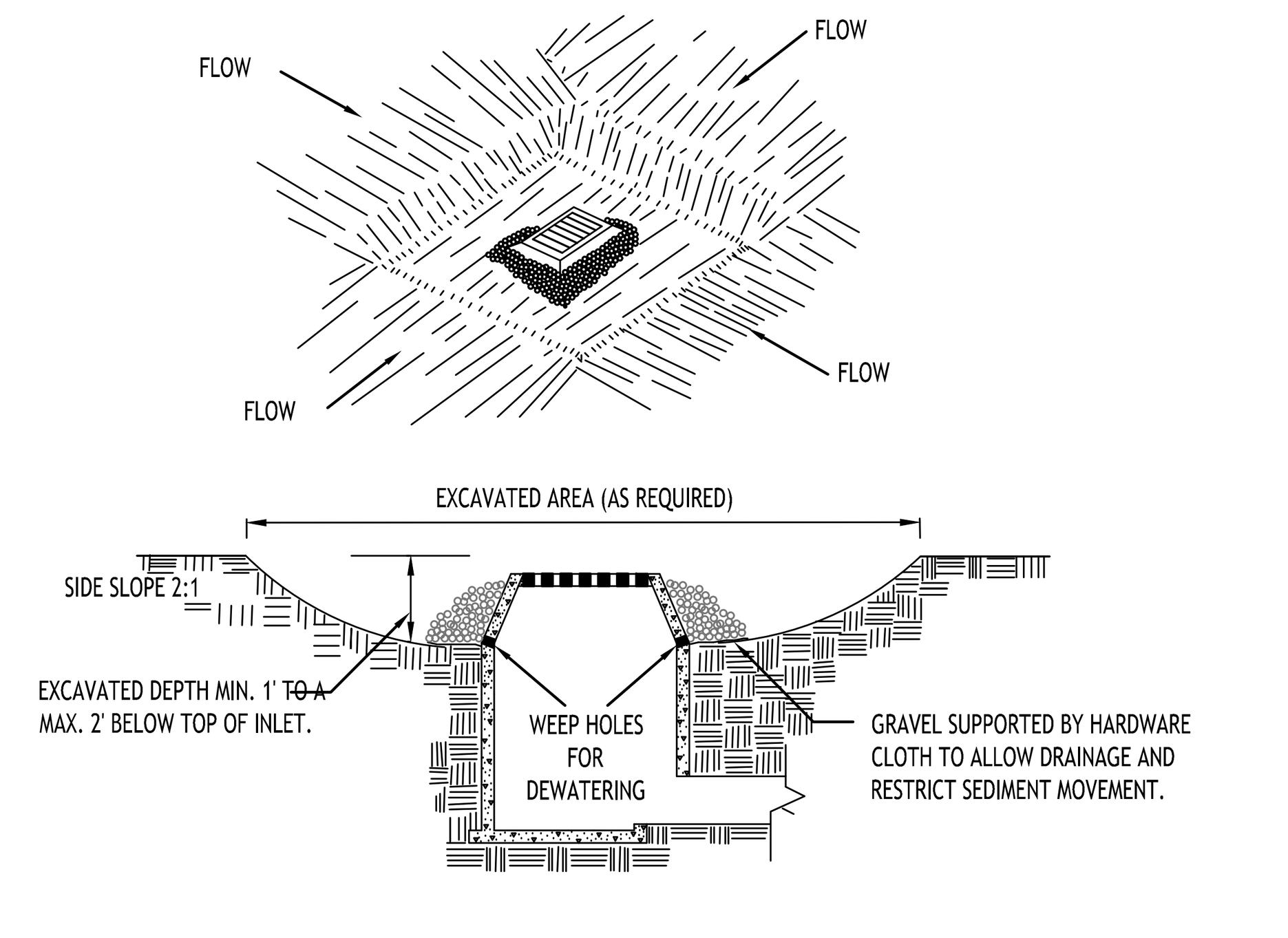
CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

STONE CHECK DAM DETAIL

NOT TO SCALE



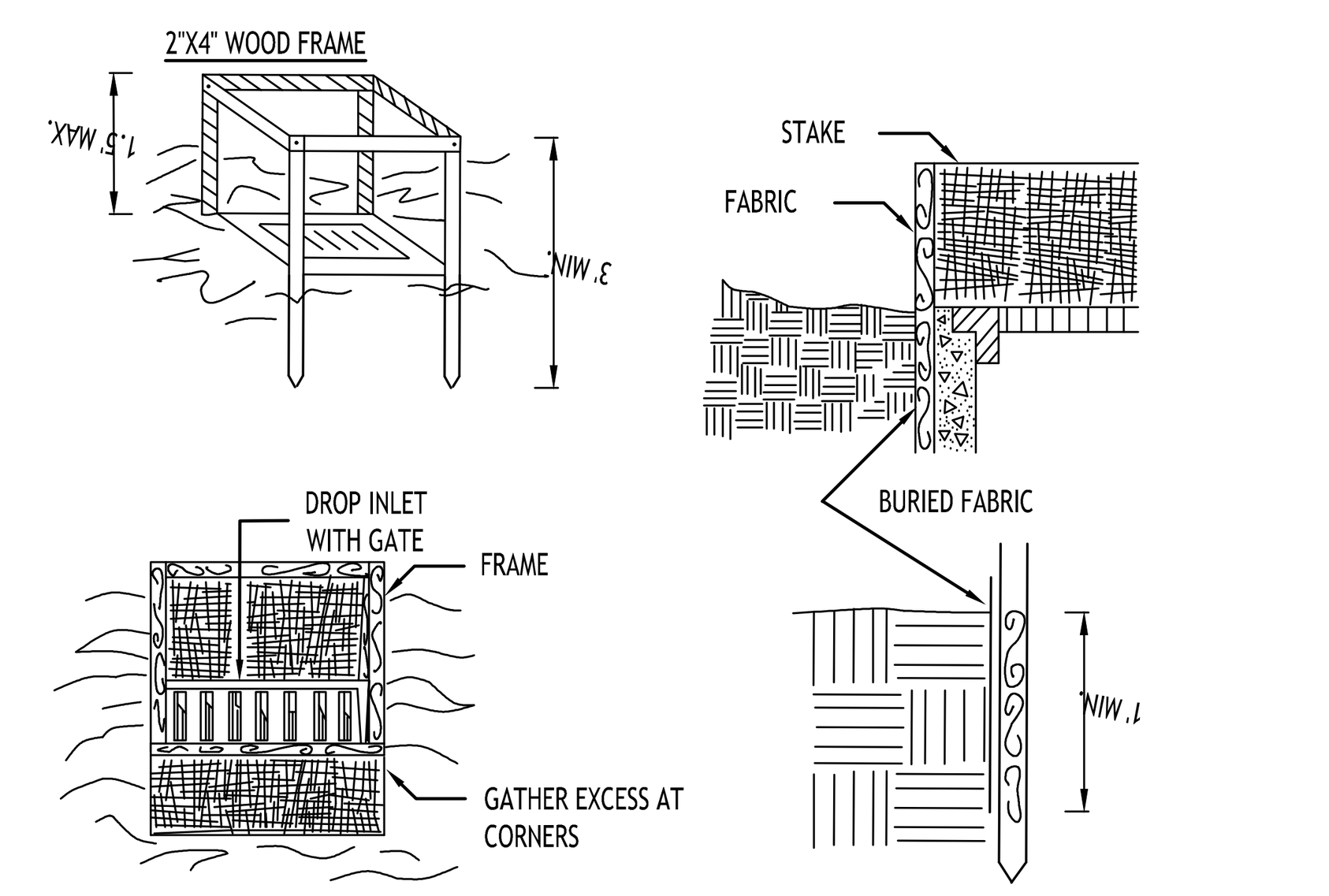
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



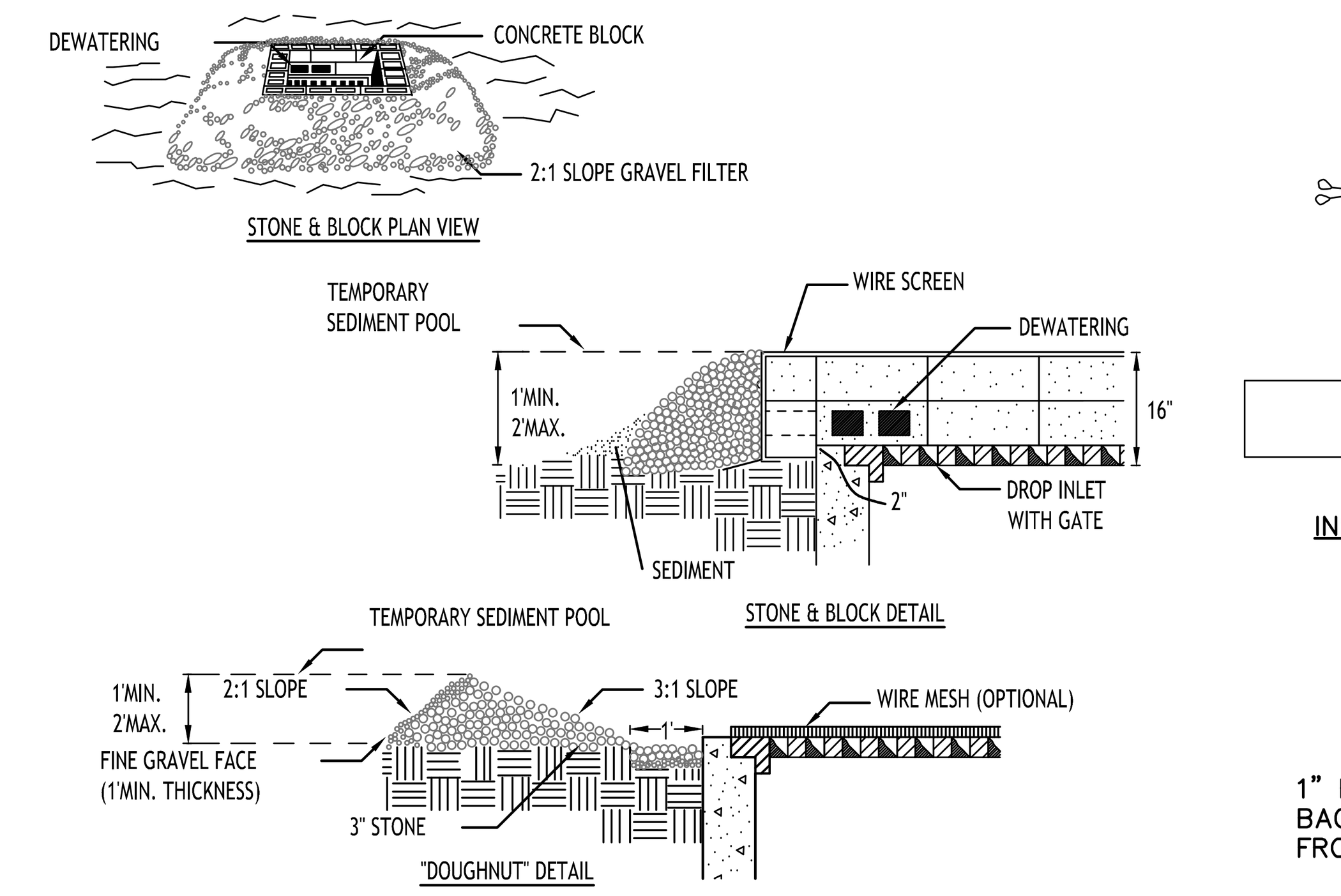
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUN DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

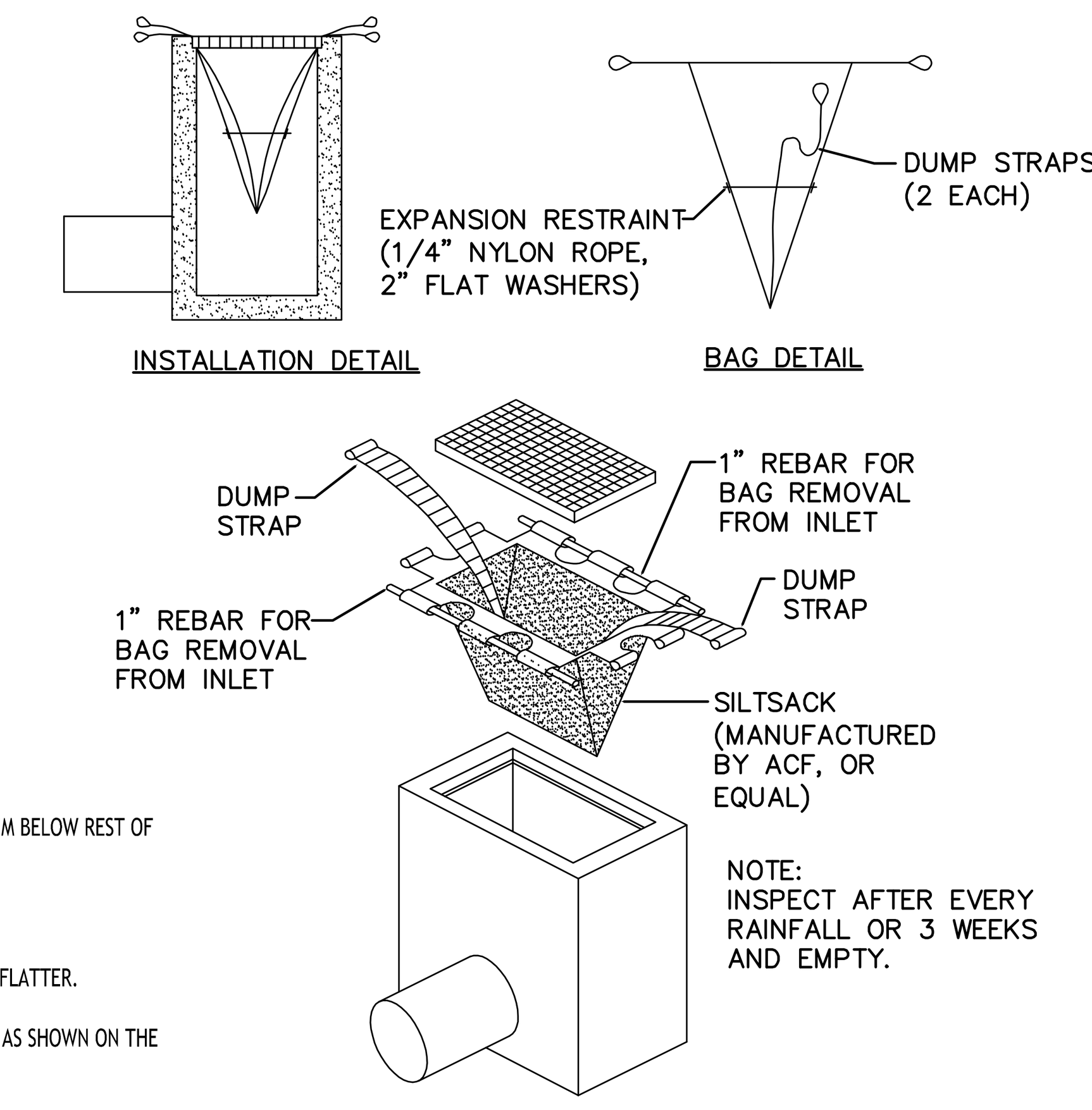
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

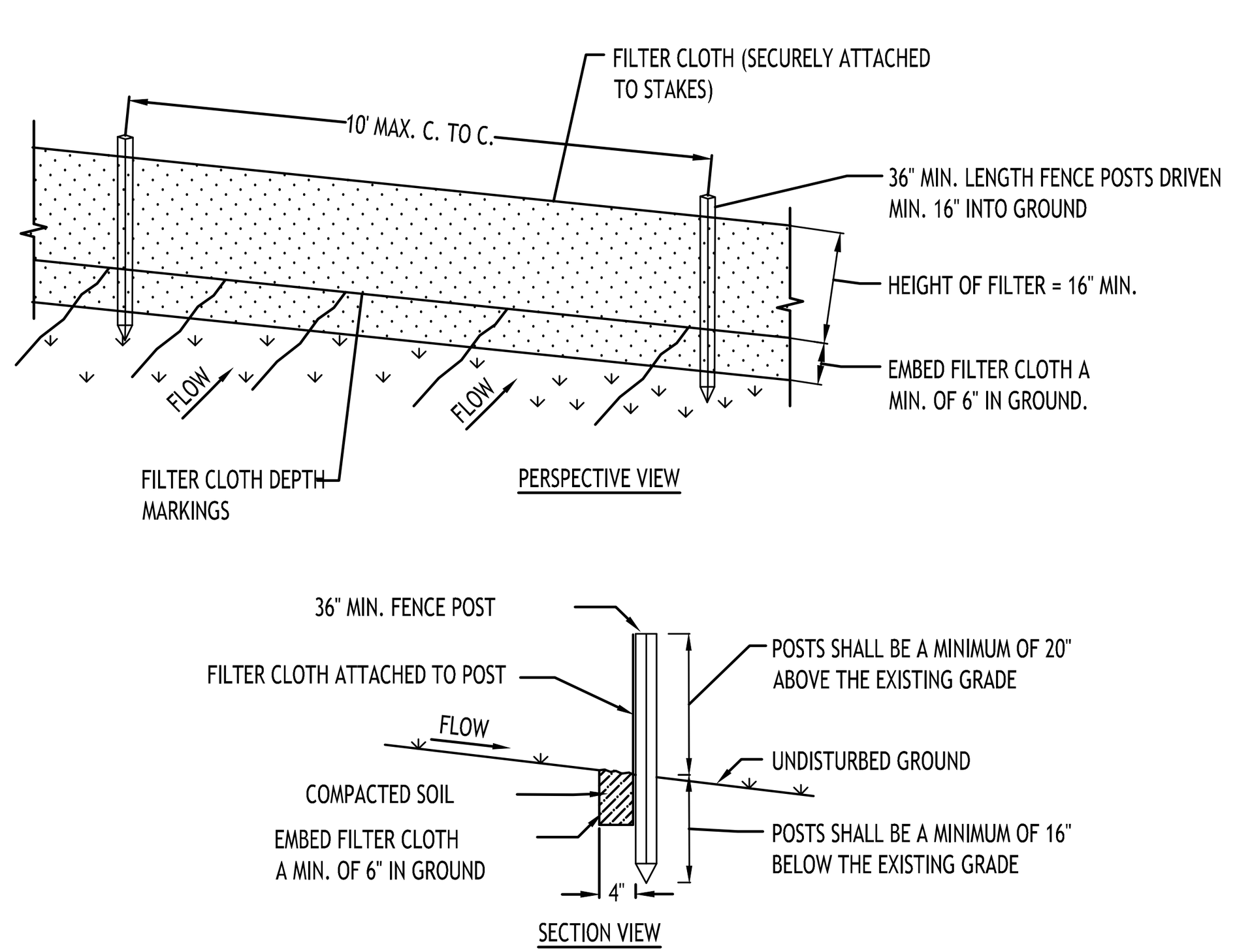
NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION



SILT SACK DETAIL

NOT TO SCALE

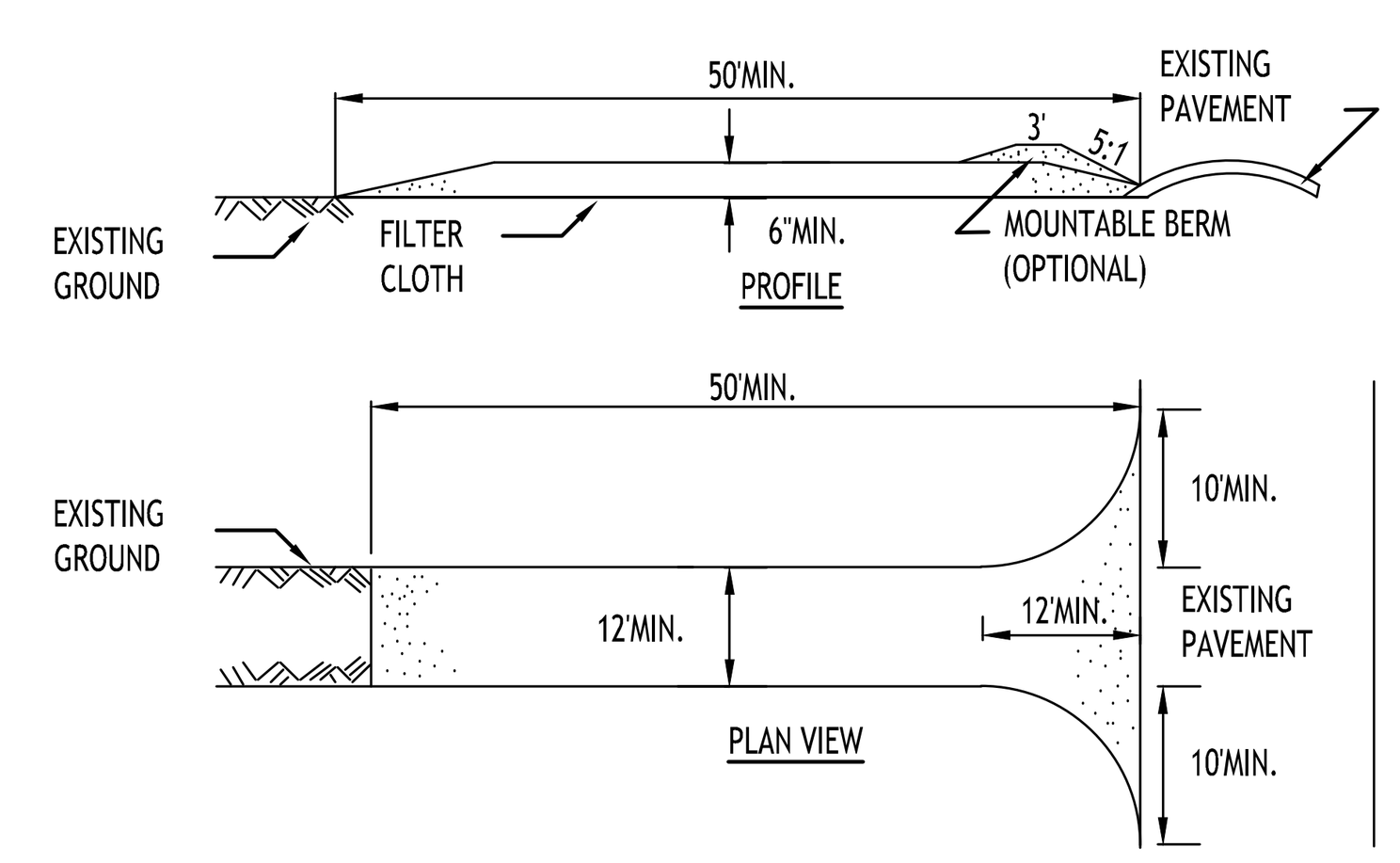


CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

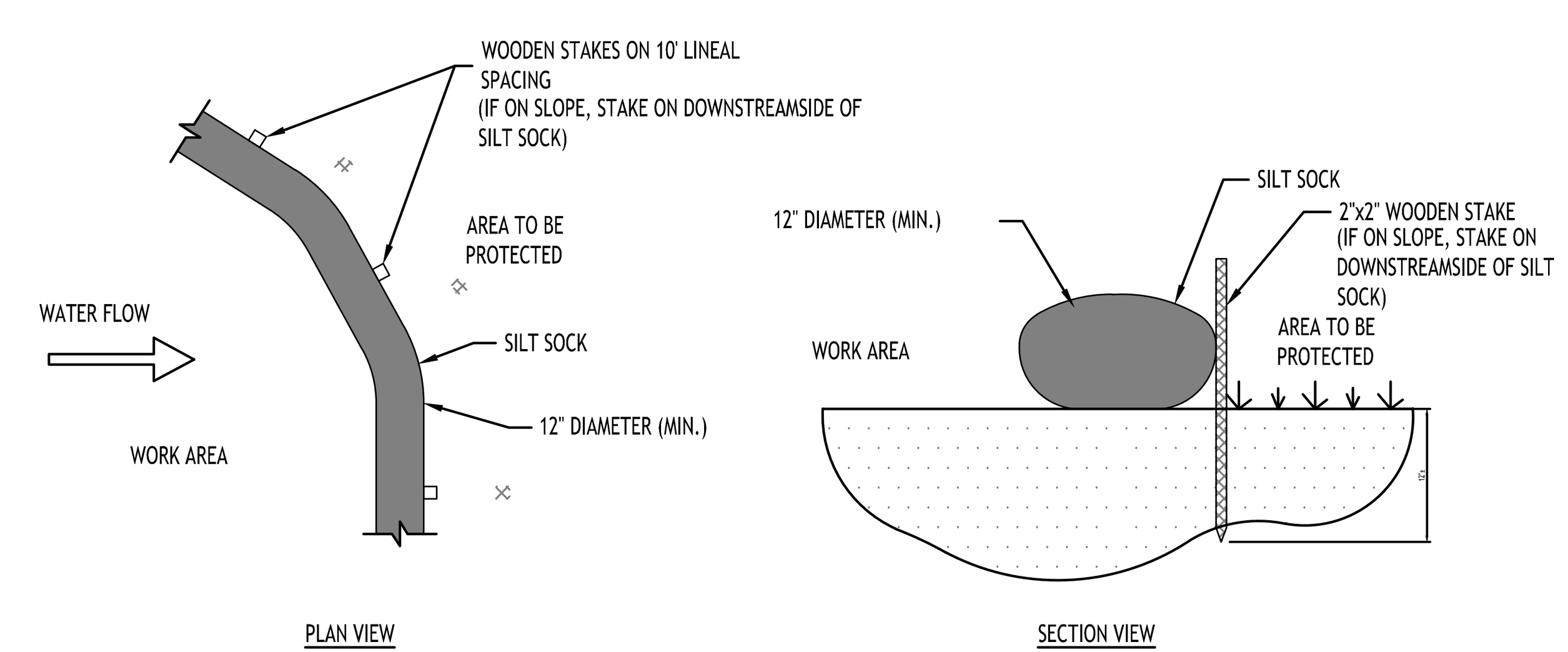


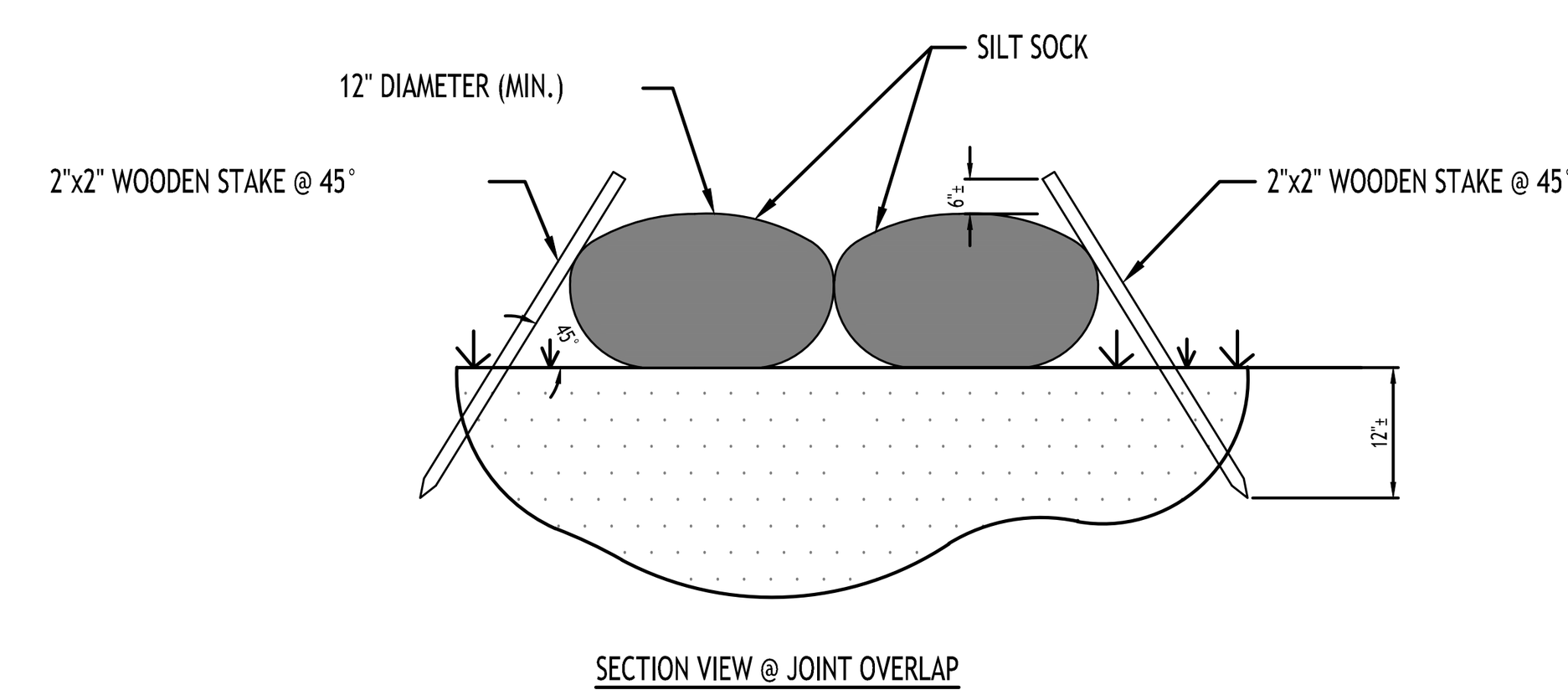
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE





NOTES:

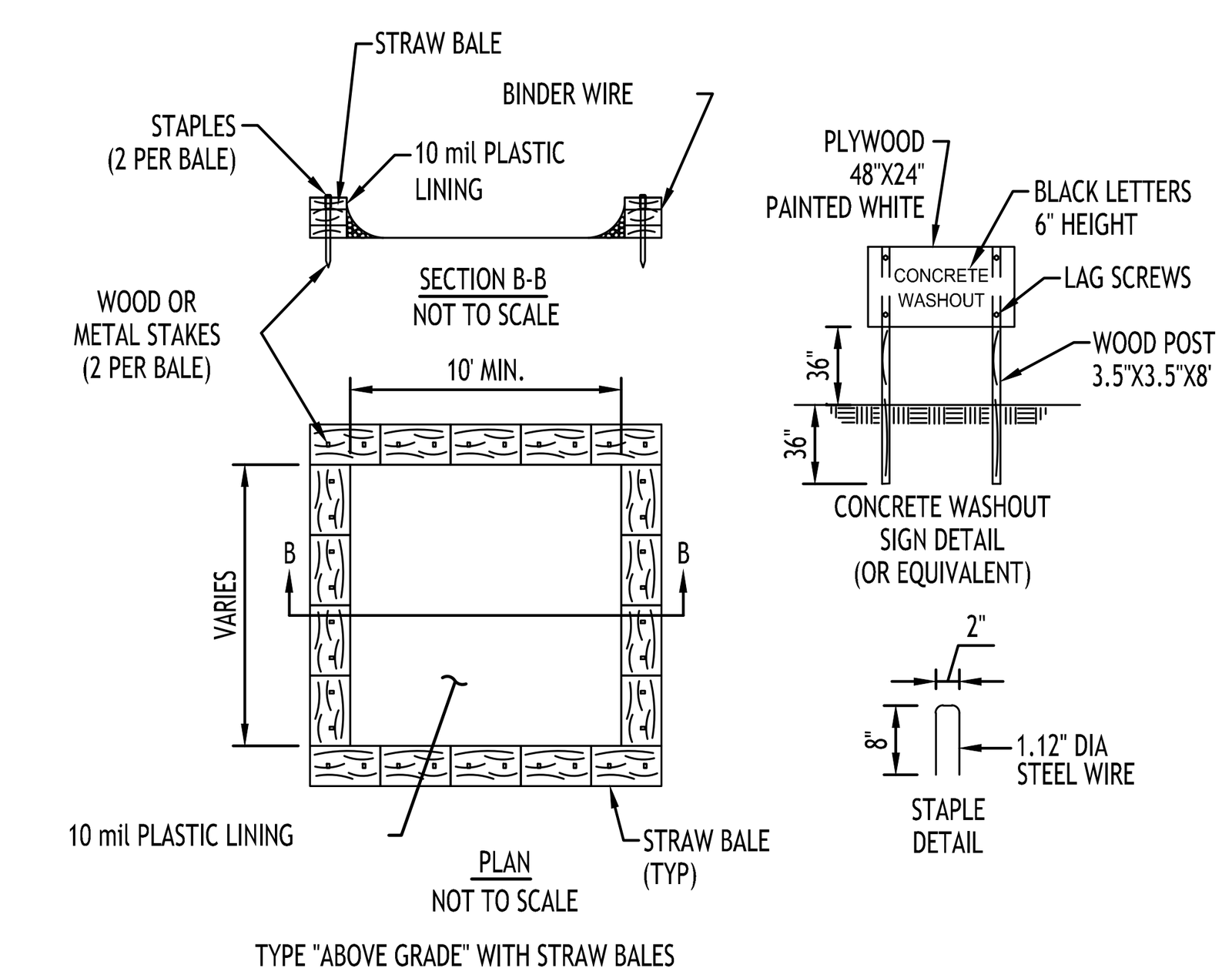
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

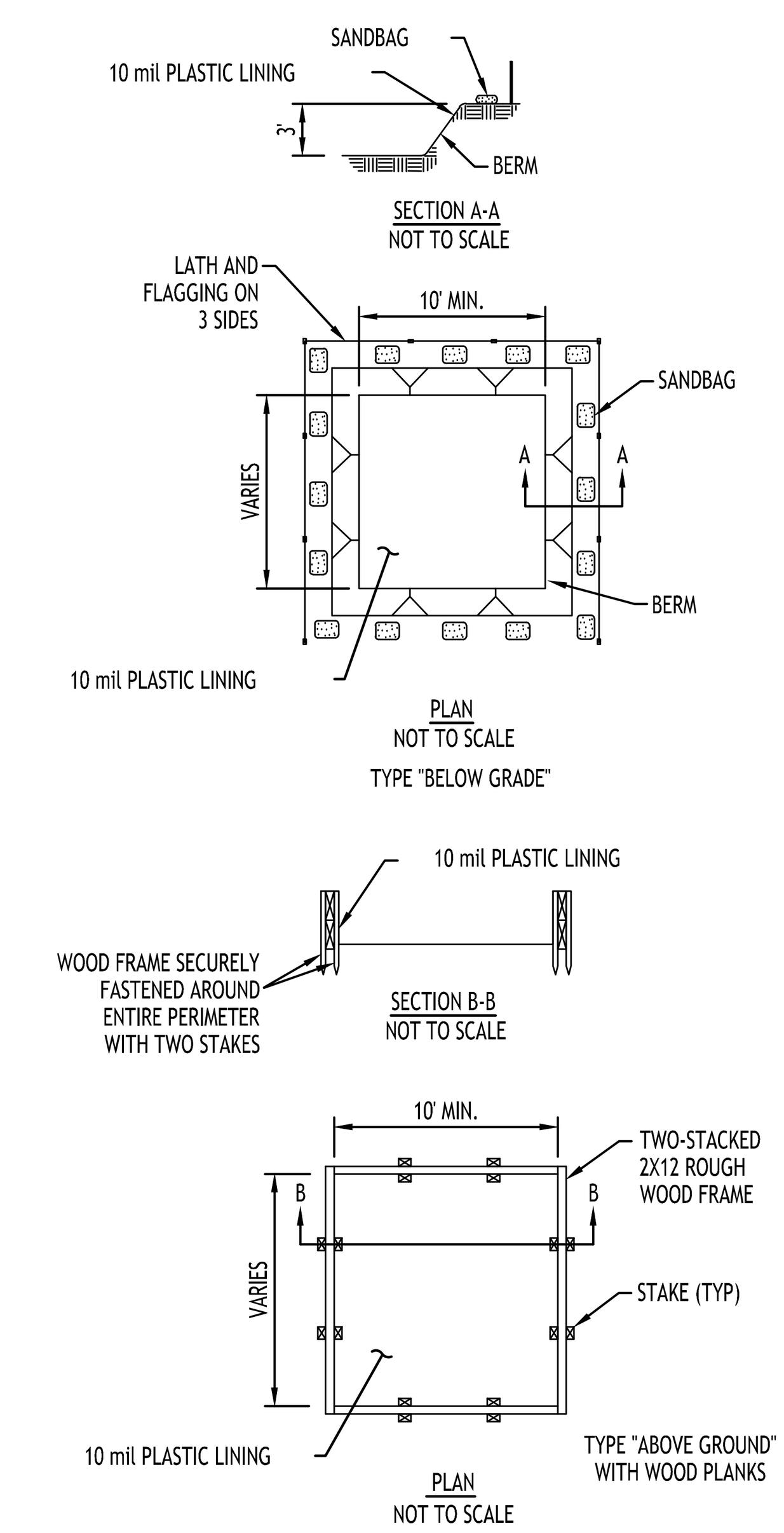
CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED $\frac{1}{2}$ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

SILT SOCK DETAIL

NOT TO SCALE





NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

CONCRETE WASHOUT DETAIL

NOT TO SCALE

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

REVISIONS:		
No.	Description	Date



Sealed 11/20/2024

DRAWING NAME:

Demolition & Erosion Control Details

Date: 11/20
Drawn By: C. W
Scale: As No

DRAWING NO.

C-002

Project No: 24.4019

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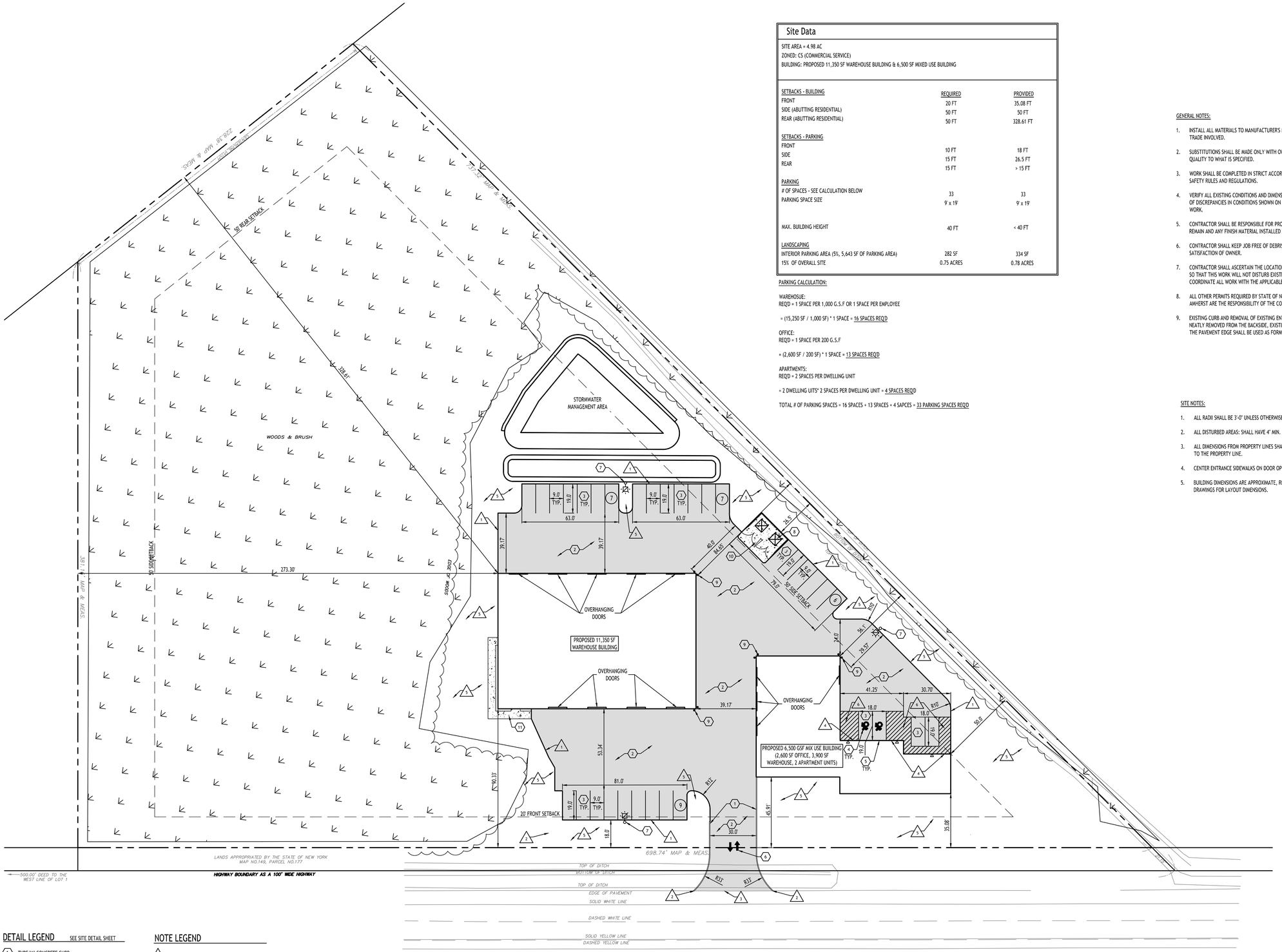

Site Data

SITE AREA = 4.98 AC
ZONED: CS (COMMERCIAL SERVICE)
BUILDING: PROPOSED 11,350 SF WAREHOUSE BUILDING & 6,500 SF MIXED USE BUILDING

	REQUIRED	PROVIDED
SETBACKS - BUILDING		
FRONT	20 FT	35.08 FT
SIDE (ABUTTING RESIDENTIAL)	50 FT	50 FT
REAR (ABUTTING RESIDENTIAL)	50 FT	328.61 FT
SETBACKS - PARKING		
FRONT	10 FT	18 FT
SIDE	15 FT	26.5 FT
REAR	15 FT	> 15 FT
PARKING		
# OF SPACES - SEE CALCULATION BELOW	33	33
PARKING SPACE SIZE	9' x 19'	9' x 19'
MAX. BUILDING HEIGHT	40 FT	< 40 FT
LANDSCAPING		
INTERIOR PARKING AREA (5%, 5,643 SF OF PARKING AREA)	282 SF	334 SF
15% OF OVERALL SITE	0.75 ACRES	0.78 ACRES

PARKING CALCULATION:

WAREHOSUE:
REQ'D = 1 SPACE PER 1,000 G.S.F OR 1 SPACE PER EMPLOYEE

= (15,250 SF / 1,000 SF) * 1 SPACE = 16 SPACES REQ'D

OFFICE:
REQ'D = 1 SPACE PER 200 G.S.F

= (2,600 SF / 200 SF) * 1 SPACE = 13 SPACES REQ'D

APARTMENTS:
REQ'D = 2 SPACES PER DWELLING UNIT

= 2 DWELLING UITS* 2 SPACES PER DWELLING UNIT = 4 SPACES REQ'D

TOTAL # OF PARKING SPACES = 16 SPACES + 13 SPACES + 4 SAPCES = 33 PARKING SPACES REQ'D

GENERAL NOTES:

1. INSTALL ALL MATERIALS TO MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
2. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNER'S APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
3. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
4. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
6. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.
9. EXISTING CURB AND REMOVAL OF EXISTING ENTRANCE SHALL BE SAW CUT FULL-DEPTH AND NEATLY REMOVED FROM THE BACKSIDE. EXISTING PAVEMENT SHALL NOT BE DISTURBED AND THE PAVEMENT EDGE SHALL BE USED AS FORM FOR PLACING NEW CURB.

SITE NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS: SHALL HAVE 4" MIN. OF TOPSOIL AND SEED.
3. ALL DIMENSIONS FROM PROPERTY LINES SHALL BE MEASURED PERPENDICULAR TO THE PROPERTY LINE.
4. CENTER ENTRANCE SIDEWALKS ON DOOR OPENINGS.
5. BUILDING DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.

SITE LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED SIDEWALK / CONCRETE PAD
- NUMBER OF PARKING SPACES (27)
- PROPOSED SIGN
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED LIGHT POLE
- PROPOSED WALL MOUNTED LIGHT

DETAIL LEGEND

SEE SITE DETAIL SHEET

1. TYPE "A" CONCRETE CURB
2. STANDARD DUTY ASPHALT
3. 90° PARKING STALL
4. HANDICAPPED PAVEMENT MARKINGS
5. HANDICAPPED PARKING SIGN, MOUNTED ON BUILDING
6. PAINTED TRAFFIC ARROWS
7. LIGHT POLE FOUNDATION
8. DUMPSTER ENCLOSURE
9. PIPE BOLLARDS
10. EXTERIOR CONCRETE SLAB-ON-GRADE
11. CONCRETE SIDEWALK

NOTE LEGEND

1. EDGE OF PAVEMENT
2. RUNOUT CURB IN 2' OR MATCH EXISTING CURB
3. SAWCUT LINE, MATCH EXISTING EDGE OF PAVEMENT
4. INSTALL "NO PARKING" SIGN, M.U.T.C.D. SIGN NO. P1-1C
5. LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
6. 4" WIDE WHITE PAVEMENT STRIPES @ 2' O.C. & @ 45° TO PARKING LINES

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

N

Site Plan

SCALE: 1"=30'

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

REVISIONS:

No.	Description	Date

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER
Sealed 11/20/2024

DRAWING NAME:

Site Plan
Concept

Date: 11/20
Drawn By: C. W
Scale: As No

DRAWING NO.

C-100

Project No: 24.4019

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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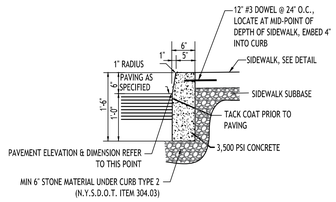
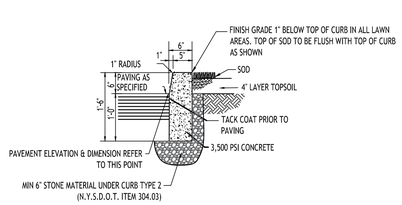


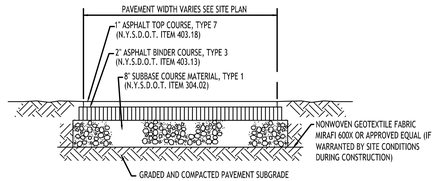
ABUTTING SIDEWALK



ABUTTING LANDSCAPE/GRASS

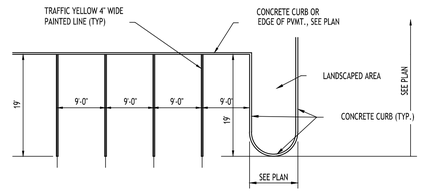
NOTES:
1. CONTROL JOINTS TO BE 2" DEEP AT 15'-0" O.C. - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. WHERE THE CURB DROPS (IS FLUSH WITH ASPHALT) THE DEPTH OF CURB BELOW GRADE SHALL BE INCREASED TO 1'-6" AND OTHER DIMENSIONS ADJUSTED ACCORDINGLY.

TYPE "A" CONCRETE CURB - 1

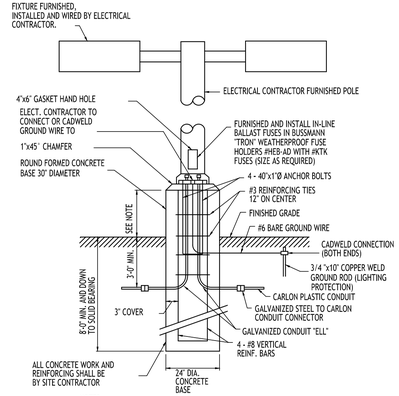


NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

STANDARD DUTY ASPHALT SECTION - 2

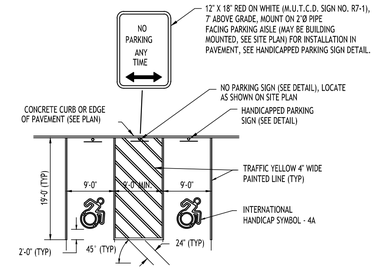


90° PARKING STALL LAYOUT - 3

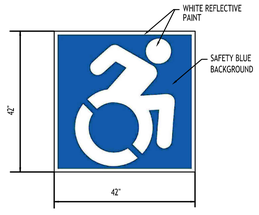


NOTES:
1. FOR LOCATIONS OF FOUNDATIONS SEE SITE PLAN
2. FOR LIGHT FIXTURE ORDERING INFORMATION SEE SITE LIGHTING PLAN
3. LIGHT POLE BASE EXPOSURE ABOVE GRADE SHALL BE:
   IN CURBED ISLANDS: 6" ABOVE TOP OF CURB ELEVATION
   IN PAVEMENT: 3" ABOVE GRADE
   IN NON-CURBED GRASS AREAS: 6" ABOVE GRADE

LIGHT POLE FOUNDATION - 7

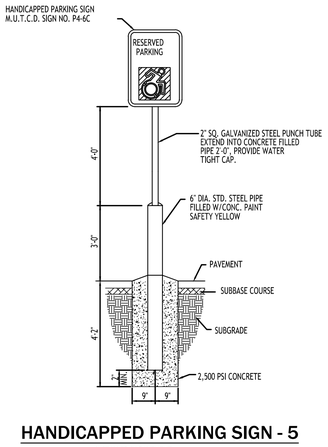


HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 4



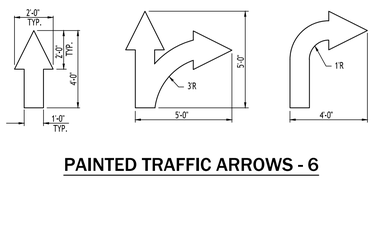
SYMBOL TO BE CENTERED IN PARKING SPACE

INTERNATIONAL HANDICAP SYMBOL - 4A

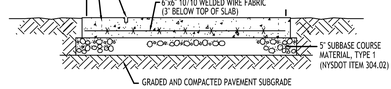


HANDICAPPED PARKING SIGN - 5

INSTALLED IN PAVEMENT

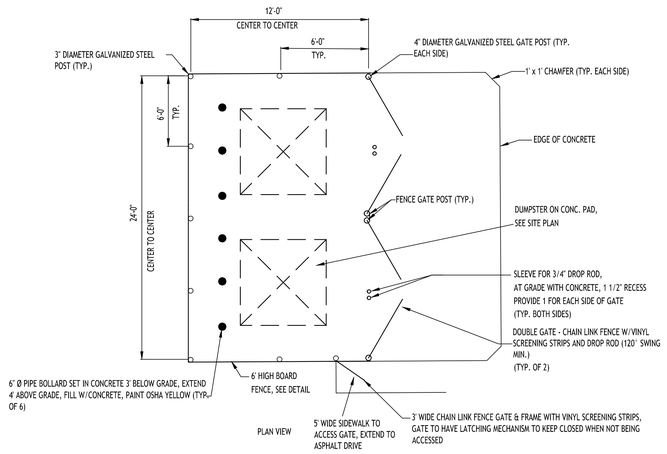


PAINTED TRAFFIC ARROWS - 6

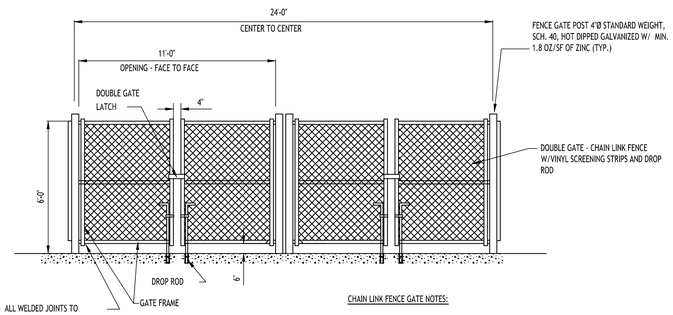


NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-3.

EXTERIOR CONCRETE SLAB-ON-GRADE SECTION - 10



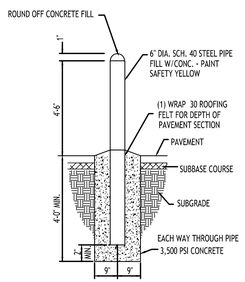
DUMPSTER ENCLOSURE - 8



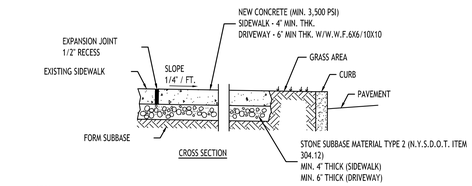
FRONT VIEW

CHAIN LINK FENCE GATE NOTES:

1. GATE POST FOOTINGS TO BE MIN. 36" DEEP x (4x) POST DIAMETER, EXTEND POST TO WITHIN 6" OF BOTTOM.
2. GATE FRAMES TO BE 2" SQ. GALVANIZED STEEL, WEIGHING 2.60 LB/FT IN ACCORDANCE WITH ASTM F 900.
3. CHAIN LINK FENCE FABRIC SHALL BE 2" MESH, 9 GAUGE, ZINC COATED STEEL CORE WIRE. INSTALL MESH WITH HOOK BOLTS AND TENSION BARS ON ALL 4 SIDES, ATTACH AT 15" MAX.
4. DOUBLE GATE LATCH TO BE FORKED TYPE CAPABLE OF RETAINING GATE IN CLOSED POSITION AND HAVE PROVISION FOR PAD LOCK. LATCH SHALL BE OPERABLE FROM EITHER SIDE OF GATE.
5. ALL HARDWARE TO BE HOT DIPPED GALVANIZED STEEL TO SUIT GATE SIZE.



PIPE BOLLARD - 9



NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTH WAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3.
3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE, PROVIDE CONTINUOUS STONE PATH TO CURB UNDERDRAIN WHERE PROVIDED.
4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB.
6. INSTALL 6" LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN ENTRANCE, THICKEN SIDEWALK TO 6" AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6" DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE.
7. INSTALL 1/2" PREMOLDED EXPANSION JOINT WITH BACKER ROD & SEALANT WHERE SIDEWALK ABUTS BUILDING OR OTHER STRUCTURE.

CONCRETE SIDEWALK - 11

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Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date



Sealed 11/20/2024

DRAWING NAME:
Site Details

Date: 11/20
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-101

Project No: 24.4019

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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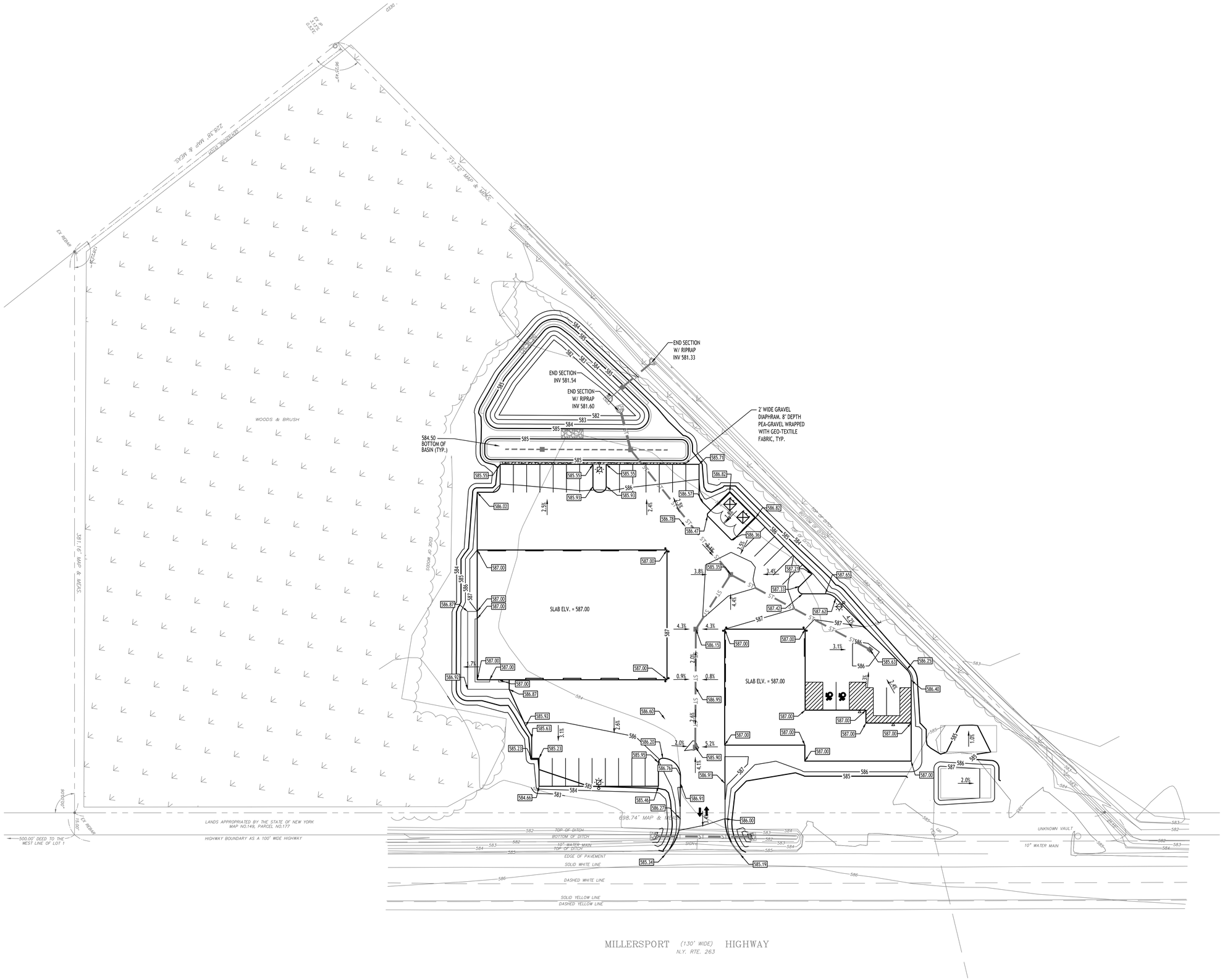

Grading Plan

SCALE: 1"=30'

PROPOSED GRADING LEGEND

PROPOSED CONTOUR	101
PROPOSED SPOT ELEVATION	100.80
PROPOSED TOP/BOTTOM OF CURB ELEV.	TC 100.50 BC 100.00
PROPOSED CATCH BASIN	CB
PAVEMENT/GROUND SLOPE	

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

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Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date

STATE OF NEW YORK
R. CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076394

Sealed 11/20/2024

DRAWING NAME:

Grading Plan

Date: 11/20
Drawn By: C. W
Scale: As No

DRAWING NO.

C-200

Project No: 24.4019

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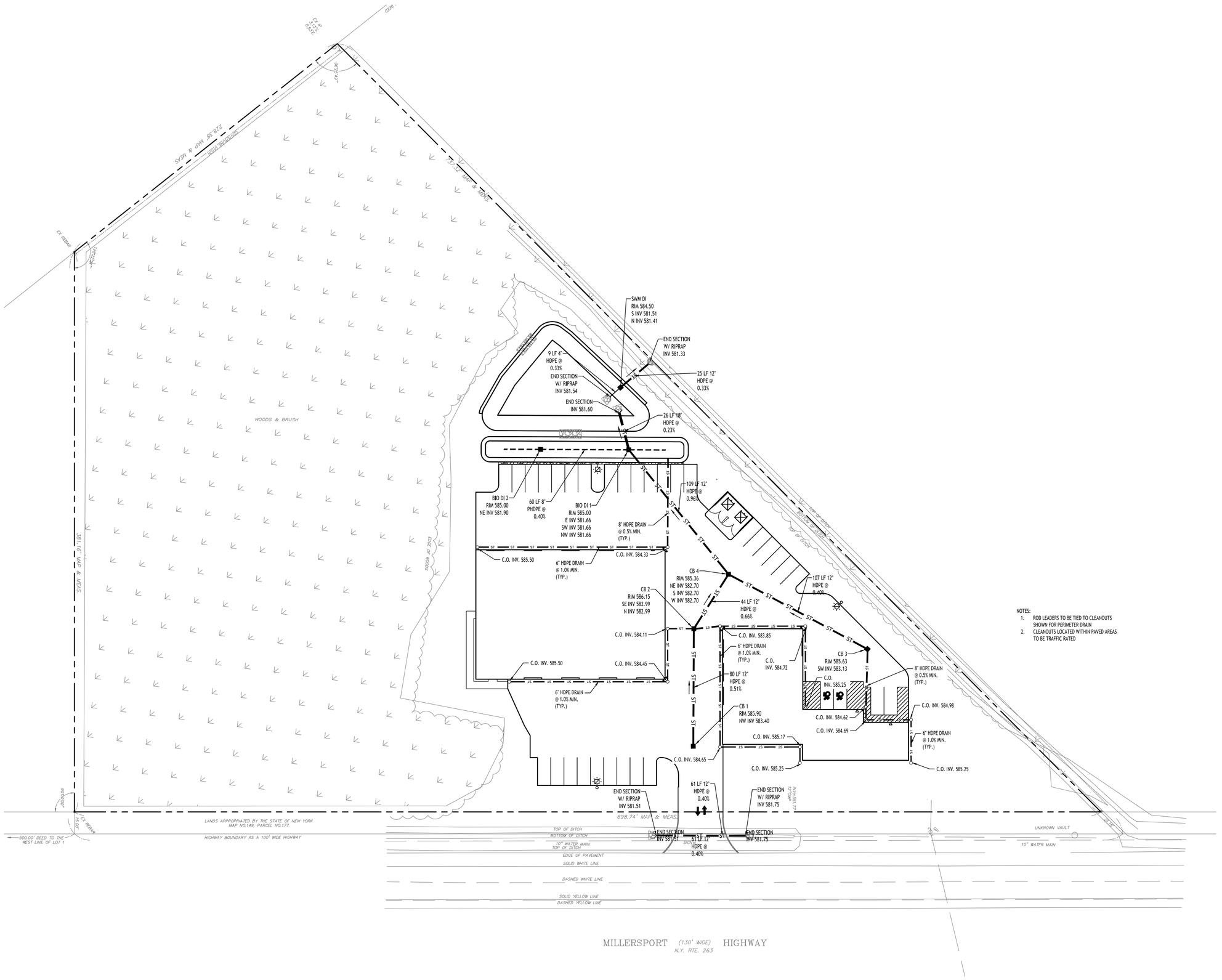

NOTES:
1. ROD LEADERS TO BE TIED TO CLEANOUTS SHOWN FOR PERIMETER DRAIN
2. CLEANOUTS LOCATED WITHIN PAVED AREAS TO BE TRAFFIC RATED

PROPOSED STORM/UTILITY LEGEND

PROPOSED STORM SEWER	ST
PROPOSED SANITARY SEWER	6" SA
PROPOSED WATERLINE	1" W
PROPOSED CATCH BASIN	CB
SELECT FILL	
PROPOSED GATE VALVE	GV

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

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30 0 30 60Ft.

N

Storm Drainage Plan

SCALE: 1"=30'

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Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER
Sealed 11/20/2024

DRAWING NAME:
Storm Drainage Plan

Date: 11/20
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-300

Project No: 24.4019

1.b

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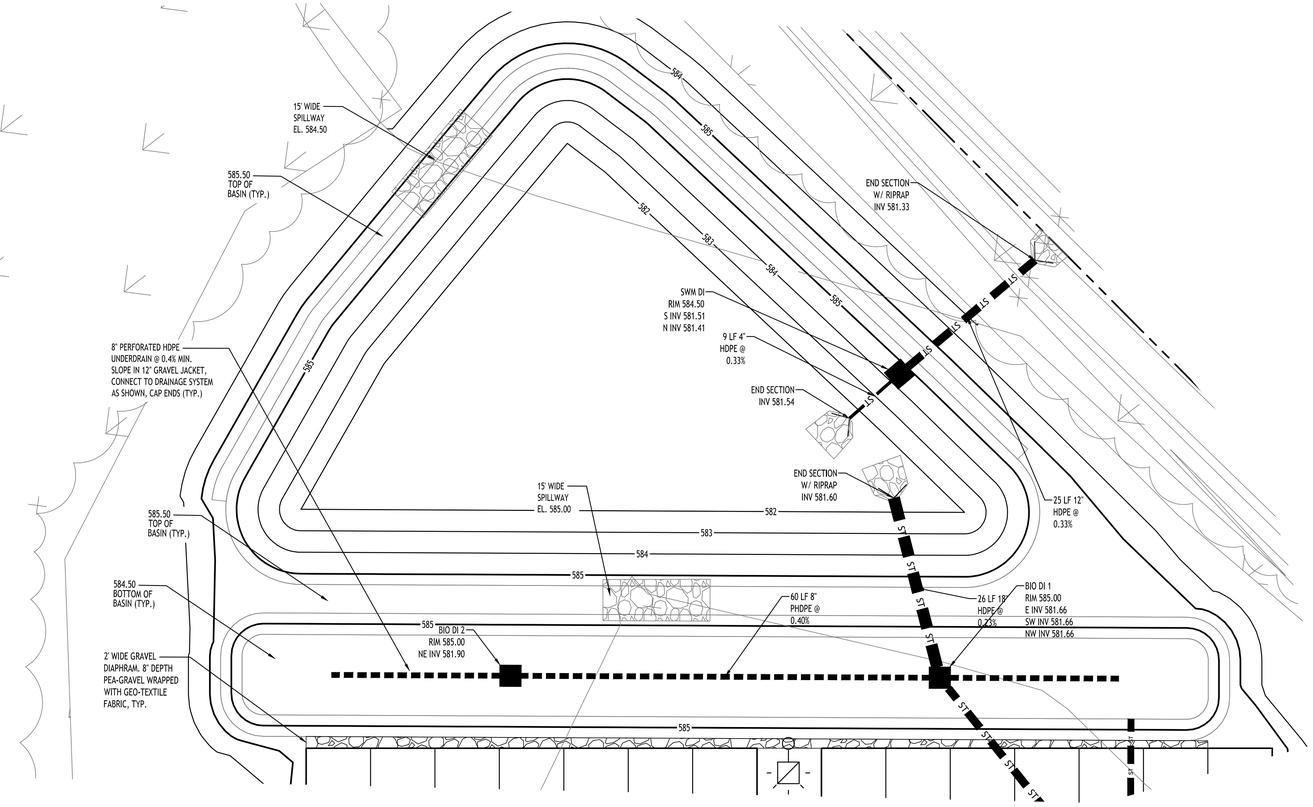
15' WIDE SPILLWAY EL. 584.50
585.50 TOP OF BASIN (TYP.)
8" PERFORATED HDPE UNDERDRAIN @ 0.4% MIN. SLOPE IN 12" GRAVEL JACKET, CONNECT TO DRAINAGE SYSTEM AS SHOWN, CAP ENDS (TYP.)
SWM DI RIM 584.50 S INV 581.51 N INV 581.41
9 LF 4" HDPE @ 0.33%
END SECTION INV 581.54
END SECTION W/ RIPRAP INV 581.33
END SECTION W/ RIPRAP INV 581.60
15' WIDE SPILLWAY EL. 585.00
585.50 TOP OF BASIN (TYP.)
584.50 BOTTOM OF BASIN (TYP.)
2' WIDE GRAVEL DIAPHRAM. 8" DEPTH PEA-GRAVEL WRAPPED WITH GEO-TEXTILE FABRIC, TYP.
BIO DI 2 RIM 585.00 NE INV 581.90
60 LF 8" PHDPE @ 0.40%
25 LF 12" HDPE @ 0.33%
26 LF 18" HDPE @ 0.33%
BIO DI 1 RIM 585.00 E INV 581.66 SW INV 581.66 NW INV 581.66
582
583
584
585
585
585

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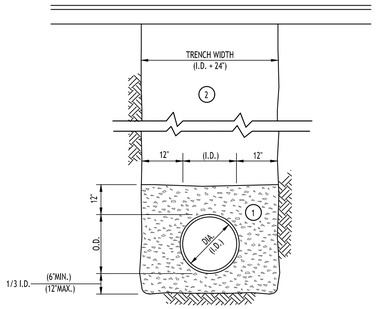


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

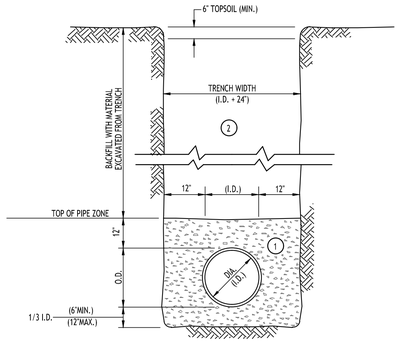
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

STORM SEWER TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

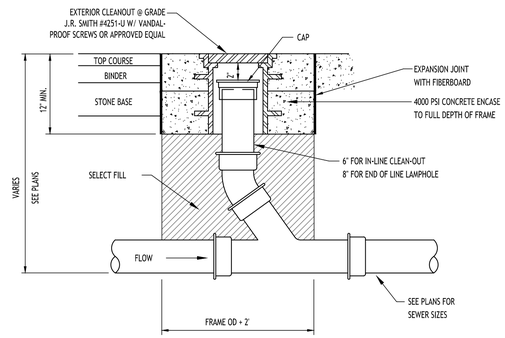
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

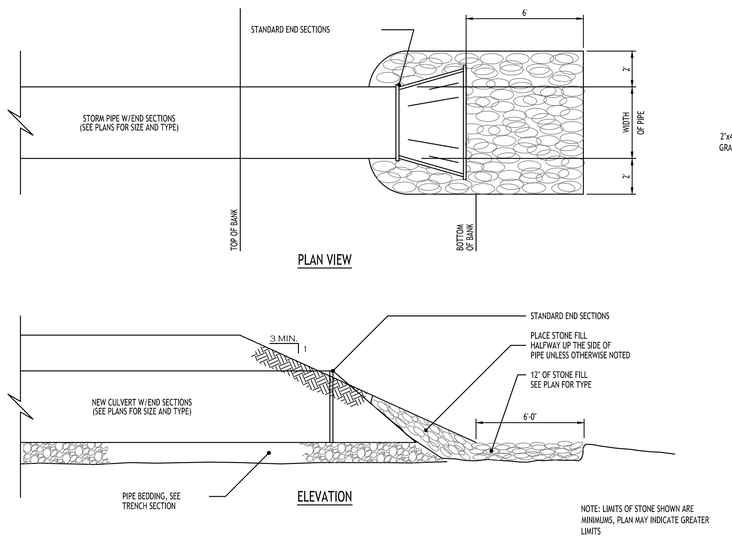
STORM SEWER TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

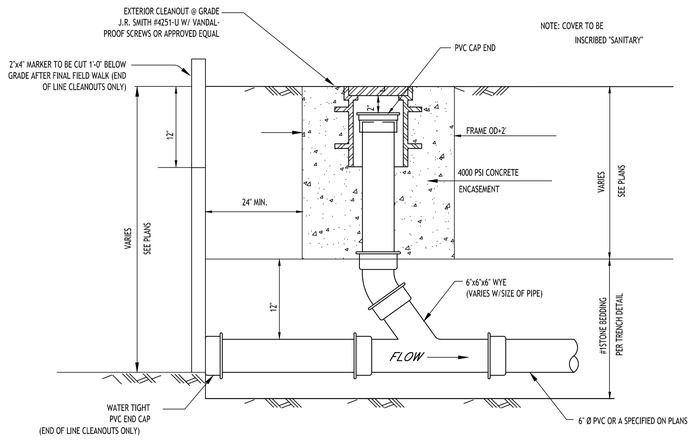
NOT TO SCALE



NOTE: LIMITS OF STONE SHOWN ARE MINIMUMS, PLAN MAY INDICATE GREATER LIMITS

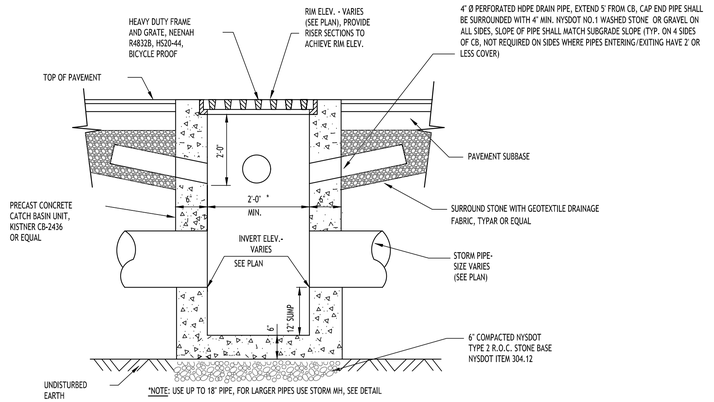
TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE



TYPICAL PRECAST CATCH BASIN

NOT TO SCALE

1.b

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Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

Sealed 11/20/2024

DRAWING NAME:

Storm Drainage Details

Date: 11/20
Drawn By: C. W.
Scale: As No

DRAWING NO.

C-302

Project No: 24.4019

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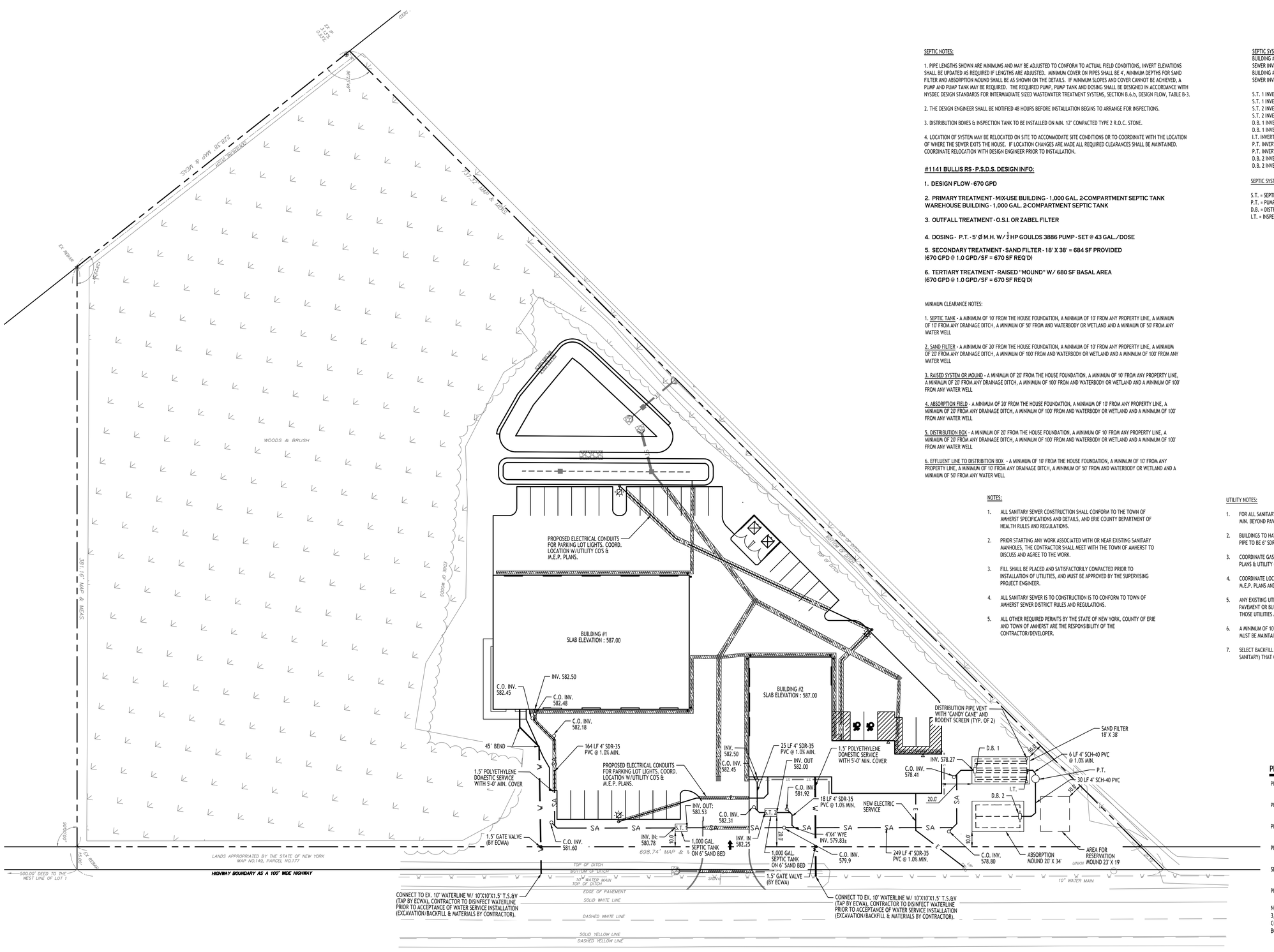

Utility Plan
SCALE: 1"=30'

SEPTIC NOTES:

1. PIPE LENGTHS SHOWN ARE MINIMUMS AND MAY BE ADJUSTED TO CONFORM TO ACTUAL FIELD CONDITIONS, INVERT ELEVATIONS SHALL BE UPDATED AS REQUIRED IF LENGTHS ARE ADJUSTED. MINIMUM COVER ON PIPES SHALL BE 4', MINIMUM DEPTHS FOR SAND FILTER AND ABSORPTION MOUND SHALL BE AS SHOWN ON THE DETAILS. IF MINIMUM SLOPES AND COVER CANNOT BE ACHIEVED, A PUMP AND PUMP TANK MAY BE REQUIRED. THE REQUIRED PUMP, PUMP TANK AND DOSING SHALL BE DESIGNED IN ACCORDANCE WITH NYSDEC DESIGN STANDARDS FOR INTERMIADIATE SIZED WASTEWATER TREATMENT SYSTEMS, SECTION B.6.b, DESIGN FLOW, TABLE B-3.

2. THE DESIGN ENGINEER SHALL BE NOTIFIED 48 HOURS BEFORE INSTALLATION BEGINS TO ARRANGE FOR INSPECTIONS.

3. DISTRIBUTION BOXES & INSPECTION TANK TO BE INSTALLED ON MIN. 12" COMPACTED TYPE 2 R.O.C. STONE.

4. LOCATION OF SYSTEM MAY BE RELOCATED ON SITE TO ACCOMMODATE SITE CONDITIONS OR TO COORDINATE WITH THE LOCATION OF WHERE THE SEWER EXITS THE HOUSE. IF LOCATION CHANGES ARE MADE ALL REQUIRED CLEARANCES SHALL BE MAINTAINED. COORDINATE RELOCATION WITH DESIGN ENGINEER PRIOR TO INSTALLATION.

#1141 BULLIS RS - P.S.D.S. DESIGN INFO:

1. DESIGN FLOW - 670 GPD

2. PRIMARY TREATMENT - MIX-USE BUILDING - 1,000 GAL. 2-COMPARTMENT SEPTIC TANK
WAREHOUSE BUILDING - 1,000 GAL. 2-COMPARTMENT SEPTIC TANK

3. OUTFALL TREATMENT - O.S.I. OR ZABEL FILTER

4. DOSING - P.T. - 5' Ø M.H. W/ ½ HP GOULDS 3886 PUMP - SET @ 43 GAL./DOSE

5. SECONDARY TREATMENT - SAND FILTER - 18' X 38' = 684 SF PROVIDED
(670 GPD @ 1.0 GPD/SF = 670 SF REQ'D)

6. TERTIARY TREATMENT - RAISED "MOUND" W/ 680 SF BASAL AREA
(670 GPD @ 1.0 GPD/SF = 670 SF REQ'D)

MINIMUM CLEARANCE NOTES:

1. SEPTIC TANK - A MINIMUM OF 10' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 10' FROM ANY DRAINAGE DITCH, A MINIMUM OF 50' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 50' FROM ANY WATER WELL

2. SAND FILTER - A MINIMUM OF 20' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 20' FROM ANY DRAINAGE DITCH, A MINIMUM OF 100' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 100' FROM ANY WATER WELL

3. RAISED SYSTEM OR MOUND - A MINIMUM OF 20' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 20' FROM ANY DRAINAGE DITCH, A MINIMUM OF 100' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 100' FROM ANY WATER WELL

4. ABSORPTION FIELD - A MINIMUM OF 20' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 20' FROM ANY DRAINAGE DITCH, A MINIMUM OF 100' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 100' FROM ANY WATER WELL

5. DISTRIBUTION BOX - A MINIMUM OF 20' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 20' FROM ANY DRAINAGE DITCH, A MINIMUM OF 100' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 100' FROM ANY WATER WELL

6. EFFLUENT LINE TO DISTRIBITION BOX - A MINIMUM OF 10' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 10' FROM ANY DRAINAGE DITCH, A MINIMUM OF 50' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 50' FROM ANY WATER WELL

NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE TOWN OF AMHERST SPECIFICATIONS AND DETAILS, AND ERIE COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS.
2. PRIOR STARTING ANY WORK ASSOCIATED WITH OR NEAR EXISTING SANITARY MANHOLES, THE CONTRACTOR SHALL MEET WITH THE TOWN OF AMHERST TO DISCUSS AND AGREE TO THE WORK.
3. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO INSTALLATION OF UTILITIES, AND MUST BE APPROVED BY THE SUPERVISING PROJECT ENGINEER.
4. ALL SANITARY SEWER IS TO CONSTRUCTION IS TO CONFORM TO TOWN OF AMHERST SEWER DISTRICT RULES AND REGULATIONS.
5. ALL OTHER REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER.

SEPTIC SYSTEM DESIGN ELEVATIONS
BUILDING #1 SLAB ELEVATION = 587.00
SEWER INVERT @ BUILDING #1 = 582.50 (4.5' OF COVER) *
BUILDING #2 SLAB ELEVATION = 587.00
SEWER INVERT @ BUILDING #2 = 582.50 (4.5' OF COVER) *

S.T. 1 INVERT IN = 580.78
S.T. 1 INVERT OUT = 580.53
S.T. 2 INVERT IN = 582.25
S.T. 2 INVERT OUT = 582.00
D.B. 1 INVERT IN = 578.27
D.B. 1 INVERT OUT = 578.17
I.T. INVERT IN/OUT = 575.16
P.T. INVERT IN = 575.10
P.T. INVERT OUT = 581.00
D.B. 2 INVERT IN = 586.88
D.B. 2 INVERT OUT = 586.78

SEPTIC SYSTEM LEGEND:

S.T. = SEPTIC TANK
P.T. = PUMP TANK
D.B. = DISTRIBUTION BOX
I.T. = INSPECTION TANK

UTILITY NOTES:

1. FOR ALL SANITARY SEWERS, INSTALL SELECT FILL IN PAVED AREAS, EXTEND 5' MIN. BEYOND PAVEMENT LIMITS
2. BUILDINGS TO HAVE INVERT ELEVATION 5' MIN. BELOW F.F.E. OF THE BUILDING. PIPE TO BE 6" SDR-35 PVC @ 1.0% MIN. WITH MIN 4.5' OF COVER.
3. COORDINATE GAS & ELEC. METER BANK LOCATIONS ON BUILDINGS WITH M.E.P. PLANS & UTILITY CO.'S.
4. COORDINATE LOCATION OF CTV & TELEPHONE SERVICE TO BUILDINGS WITH M.E.P. PLANS AND UTILITY CO.'S.
5. ANY EXISTING UTILITIES WHICH ARE TO BE ABANDONED AND FALL UNDER PAVEMENT OR BUILDINGS SHALL BE REMOVED VS. BEING ABANDONED UNLESS THOSE UTILITIES ARE FILLED WITH FLOWABLE FILL.
6. A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
7. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH CONCRETE AND ASPHALT PAVEMENT AREAS.

PROPOSED STORM/UTILITY LEGEND

PROPOSED STORM SEWER	— ST —
PROPOSED SANITARY SEWER	— 6" SA —
PROPOSED WATERLINE	— 1" W —
PROPOSED CATCH BASIN	■ CB
SELECT FILL	▨
PROPOSED GATE VALVE	⊕ GV

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Buildings
5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date

STATE OF NEW YORK · R. CHRISTOPHER KNOLL · LICENSED PROFESSIONAL ENGINEER · 076394
Sealed 11/20/2024

DRAWING NAME:
Utility Plan

Date: 11/20
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-400

Project No: 24.4019

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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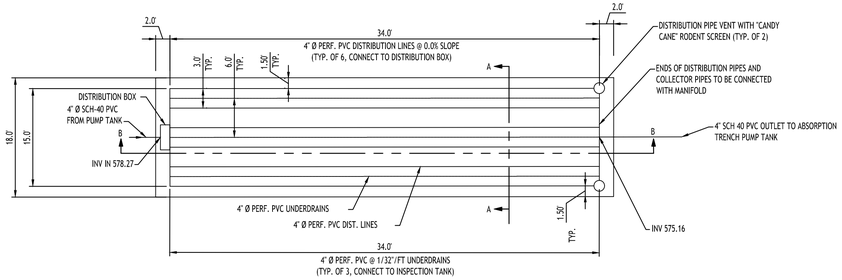


SAND FILTER PLAN

NOT TO SCALE

SAND FILTER NOTES:

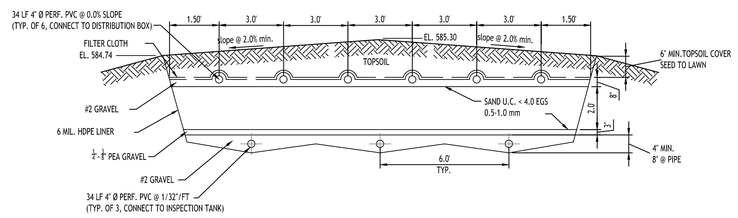
1. ALL SAND SHALL BE UNIFORM COARSE TO MEDIUM SAND (< 4% PASSINF #200 SIEVE), ALL PASSING 1/4 INCH SIEVE, HAVE A EFFECTIVE GRAIN SIZE (EGS) BETWEEN 0.25 - 1.00 mm, AN UNIFORMITY COEFFICIENT (UC) <= 4

2. IF A HDPE LINER IS USED, SEAL PENETRATIONS AND SEAMS WATER TIGHT

3. TOP OF SAND FILTER SHALL BE SLOPED TO DRAIN, AREAS AROUND THE FILTER SHALL BE GRADED TO DIVERT WATER AWAY

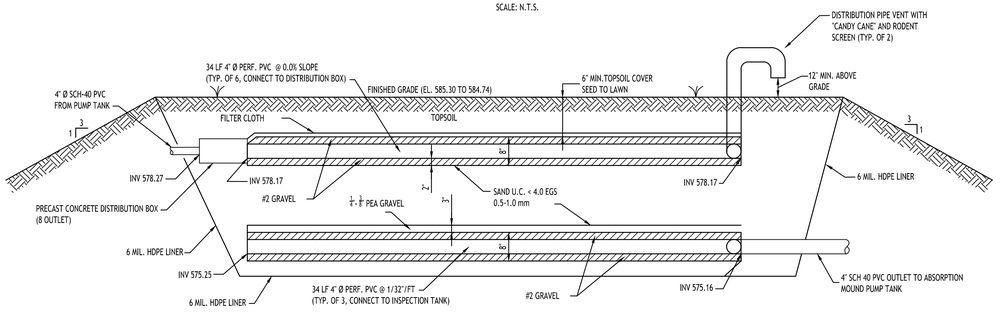
4. ALL HEAVY EQUIPMENT SHALL BE KEPT OFF THE SAND FILTER AREA FOLLOWING CONSTRUCTION.

5. depending on depth of high water mark or bedrock or the existing topography, the entire filter may be adjusted up or down. all required clearances and minimum slopes must be maintained. if adjustments are made to the filter, the engineer shall be notified prior to start of installation.



SAND FILTER CROSS SECTION A-A

SCALE: N.T.S.



SAND FILTER SECTION B-B

SCALE: N.T.S.

MOUND NOTES:

1. TOP OF MOUND SHALL BE SLOPED TO DRAIN, AREAS AROUND THE BASE OF THE MOUND SHALL BE GRADED TO DIVERT WATER AWAY FROM THE MOUND.

2. SLOPE UNDER MOUND SHALL FOLLOW SLOPE OF EXISTING GRADE, EITHER SIDE TO SIDE OR LONGITUDINAL TO FACILITATE DRAINAGE (SHOWN AS SIDE TO SIDE FOR ILLUSTRATION PURPOSES).

3. ALL HEAVY EQUIPMENT SHALL BE KEPT OFF THE MOUND AREA FOLLOWING CONSTRUCTION. IN ADDITION, NO EQUIPMENT SHALL BE ALLOWED IN THE MOUND AREA FOLLOWING PLOWING OF THE EXISTING SOIL.

4. MOUND SHALL BE ELEVATED AS REQUIRED TO PROVIDE A MINIMUM OF 2' OF NATURAL SOIL ABOVE BEDROCK AND A MINIMUM OF 1' ABOVE THE HIGH GROUND WATER ELEVATION.

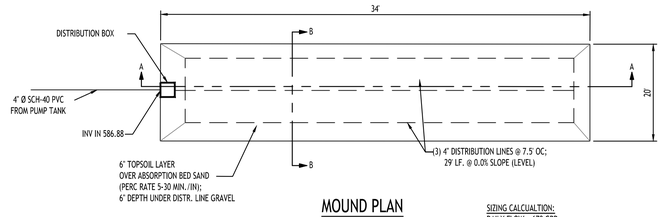
5. THE SLOPE OF THE ORIGINAL GROUND SURFACE IN THE LOCATION OF THE MOUND SHALL NOT EXCEED 12%. THE SYSTEM SHALL BE ORIENTED TO RUN PARALLEL WITH THE NATURAL SITE CONTOURS.

6. THE ABSORPTION BED SAND SHALL MEET THE FOLLOWING CRITERIA:
   A. < 10% PASSING #200 SIEVE
   B. => 25% PASSING #35 SIEVE TO #10 SIEVE
   C. < 15% PASSING 1/2 SIEVE
   D. PERCOLATION RATE OF BETWEEN 5 - 30 MIN/INCH
   E. E.G.S. BETWEEN 0.15 - 0.30 MM
   F. U.C. BETWEEN 4 - 6
   G. TEST RESULTS TO BE SUBMITTED TO ENGINEER FOR APPROVAL

   NOTE: ASTM C33 WASHED CONCRETE SAND WILL TYPICALLY MEET THE ABOVE SUGGESTED MOUND SAND CRITERIA AND WILL TYPICALLY BE AVAILABLE AT MOST SAND AND GRAVEL DISTRIBUTORS; HOWEVER, THIS MATERIAL WILL OFTEN HAVE A PERC RATE FASTER THAN THE MINIMUM OF 5 MINUTES PER INCH. THE PERCOLATION RATE SHALL BE VERIFIED AND TAKE PRECEDENCE TO THE FILL GRADATION REQUIREMENTS WHEN A MOUND IS PLACED OVER VERY SLOW PERCOLATING SOIL TO AVOID RAPID WEEPING OF FLUIDS AT THE GROUND SURFACE.

7. THE NATURAL VEGETATION SHALL NOT BE SCRAPED AWAY WITH THE EXCEPTION OF TREES, STUMPS AND EXCESSIVE VEGETATION. THE PROPOSED MOUND AREA SHALL BE PLOWED TO A DEPTH OF 7' - 8" PREFERABLY WITH A DOUBLE-BOTTOM BLADE/FURROW PLOW WITH TURNED UPSLOPE OR A BACKHOE EQUIPPED WITH PLOWING BLADES. ALL TRAFFIC SHALL BE EXCLUDED FROM THE MOUND AREA FOLLOWING PLOWING.

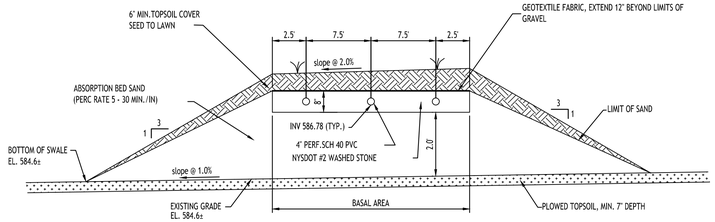
8. DEPENDING ON DEPTH OF HIGH WATER MARK OR BEDROCK, THE ENTIRE MOUND MAY BE ADJUSTED UP OR DOWN. ALL REQUIRED CLEARANCES AND MINIMUM SLOPES MUST BE MAINTAINED. IF ADJUSTMENTS ARE MADE TO THE MOUND, THE ENGINEER SHALL BE NOTIFIED PRIOR TO START OF INSTALLATION.



MOUND PLAN

SCALE: NTS

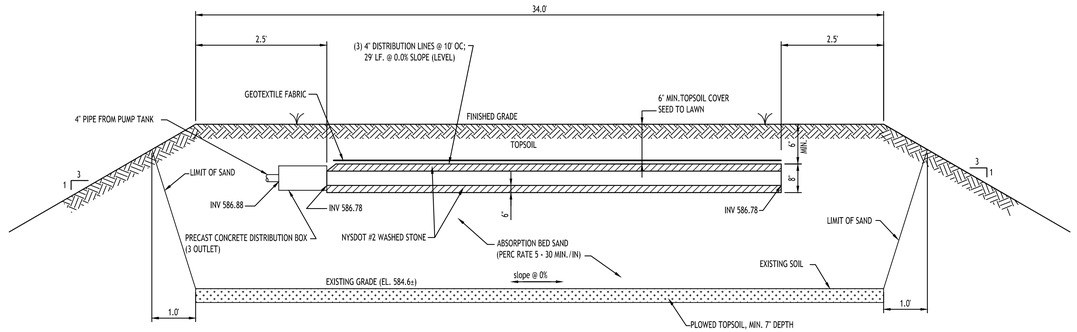
SIZING CALCULATION:
DAILY FLOW = 670 GPD
PERC RATE OF EX. UNDERLYING SOIL : > 60 MIN.
APPLICATION RATE BASED ON PERC. RATE = 1 GPD/SF
BASAL AREA REQ'D = 670 GPD / 1 GPD/SF = 670 SF
BASAL AREA PROVIDED = 680 SF



The absorption bed sand shall meet the following criteria:
1. < 10% passing #200 sieve
2. => 25% between 0.5 mm to 2.0 mm
3. Percolation rate of between 5 - 30 min/inch

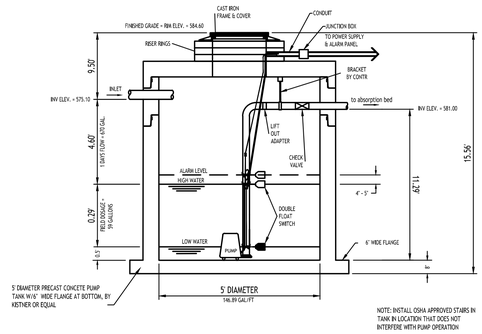
MOUND SECTION B-B

SCALE: N.T.S.



MOUND SECTION A-A

SCALE: N.T.S.



PUMP TANK

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

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REVISIONS:

No.	Description	Date

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



Sealed 11/20/2024

DRAWING NAME:

Utility Details

Date: 11/20
Drawn By: C. W.
Scale: As No

DRAWING NO.

C-401

Project No: 24.4019

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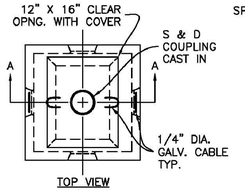
KISTNER CONCRETE PRODUCTS INC. 8713 READ ROAD E. PEMBROKE, N.Y. 14056 (716) 894-2267	PRODUCT DESIGNATION	DWG. NO.
PRECAST	2'-0" X 2'-0" UTILITY TANK	ST-ST22UT © 3-14-07

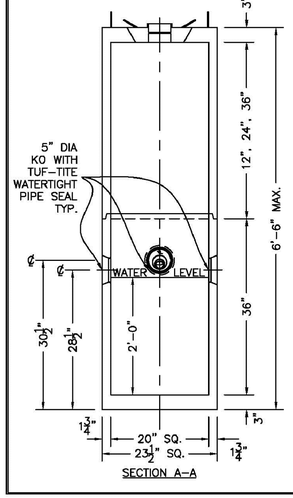


TOP VIEW

SPECIFICATIONS:
CONCRETE: 4,000 P.S.I. @ 28 DAYS.
ENTRAINED AIR: 5% – 9%.
STEEL: A.S.T.M. A496–A615 GRADE 60–60 KSI.
DESIGN LOADING: A–0.3/300PSF/WALKWAYS. FLOTATION FORCES NOT ACCOUNTED FOR.

WEIGHTS:
2' X 2' UTILITY PLUG COVER: 70 LBS.
TOP SECTION: 1' – 300 LBS.
2' – 455 LBS.
3' – 612 LBS.
BOTTOM SECTION: 3' – 612 LBS.

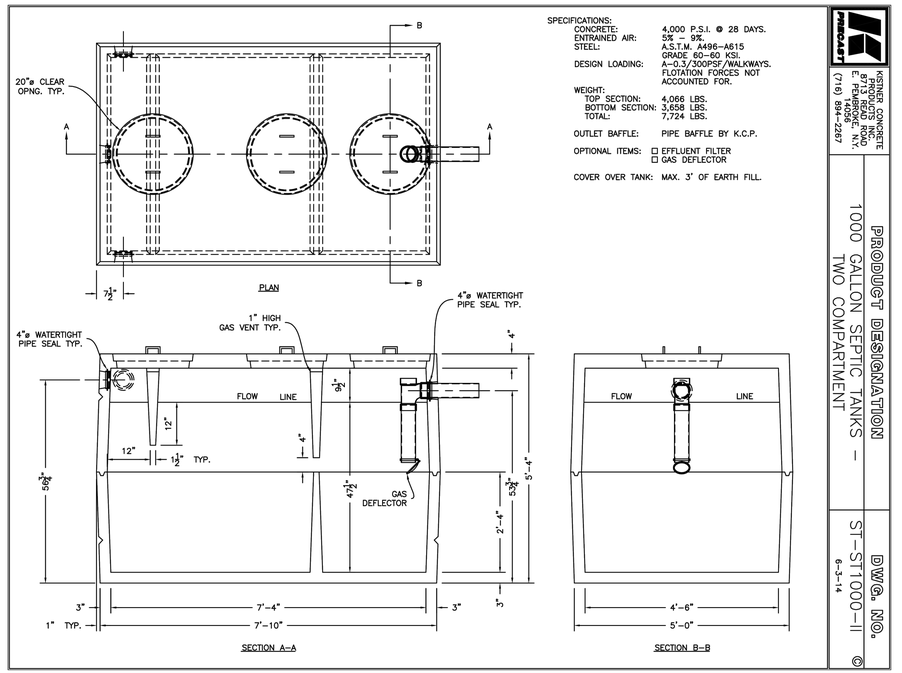
WATER CAPACITY:
2' WATER = 5.58 CU. FT. = 43 GAL.
3' WATER = 8.35 CU. FT. = 64 GAL.
4' WATER = 11.16 CU. FT. = 75 GAL.
5' WATER = 13.95 CU. FT. = 86 GAL.
6' WATER = 16.67 CU. FT. = 107 GAL.
GPF – 21.5 GAL.



SECTION A–A

NOTE: TOP SECTIONS MAY BE STACKED FOR ADDITIONAL HEIGHT.

O:\Drawings\Product Workbooks\001e-Utility tanks\ST22UT.DWG, TB-JOB

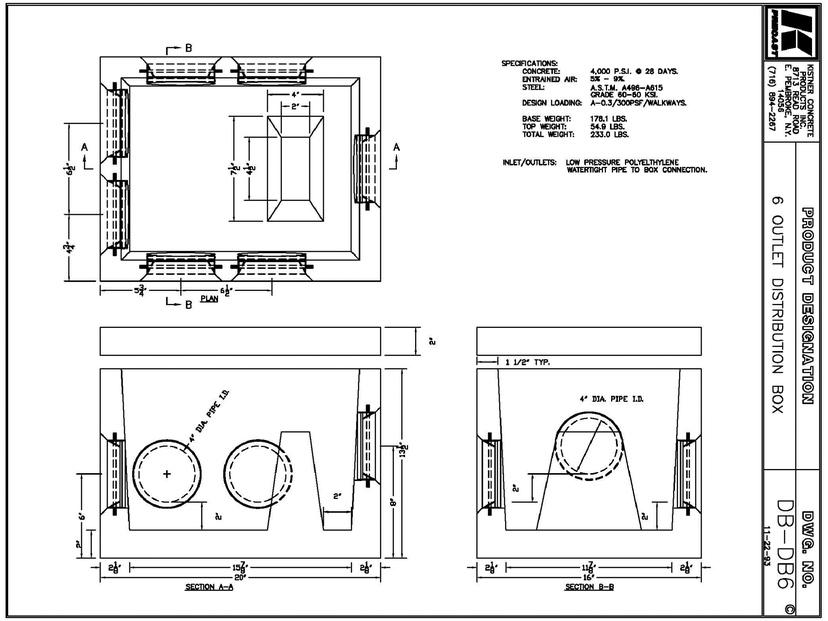


SPECIFICATIONS:
CONCRETE: 4,000 P.S.I. @ 28 DAYS.
ENTRAINED AIR: 5% – 9%
STEEL: A.S.T.M. A496–A615 GRADE 60–60 KSI.
DESIGN LOADING: A–0.3/300PSF/WALKWAYS.
OUTLET BAFFLE: PIPE BAFFLE BY K.C.P.
OPTIONAL ITEMS: ☐ EFFLUENT FILTER ☐ GAS DEFLECTOR
COVER OVER TANK: MAX. 3' OF EARTH FILL.

KISTNER CONCRETE PRODUCTS INC. 8713 READ ROAD E. PEMBROKE, N.Y. (716) 894-2267

PRODUCT DESIGNATION
1000 GALLON SEPTIC TANKS – TWO COMPARTMENT

DWG. NO. ST-ST1000-II © 6-3-14



SPECIFICATIONS:
CONCRETE: 4,000 P.S.I. @ 28 DAYS.
ENTRAINED AIR: 5% – 9%
STEEL: A.S.T.M. A496–A615 GRADE 60–60 KSI.
DESIGN LOADING: A–0.3/300PSF/WALKWAYS.

BASE WEIGHT: 178.1 LBS.
TOP WEIGHT: 54.9 LBS.
TOTAL WEIGHT: 233.0 LBS.

INLET/OUTLETS: LOW PRESSURE POLYETHYLENE WATERTIGHT PIPE TO BOX CONNECTION.

KISTNER CONCRETE PRODUCTS INC. 8713 READ ROAD E. PEMBROKE, N.Y. (716) 894-2267

PRODUCT DESIGNATION
6 OUTLET DISTRIBUTION BOX

DWG. NO. DB–DB6 ©
11-22-23

1.b

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

CARMINAWOOD DESIGN
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REVISIONS:

No.	Description	Date

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



Sealed 11/20/2024

DRAWING NAME:
Utility Details

Date: 11/20
Drawn By: C. W
Scale: As No

DRAWING NO.
C-402

Project No: 24.4019

Packet Pg. 371

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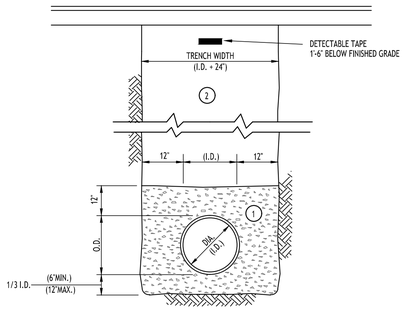


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

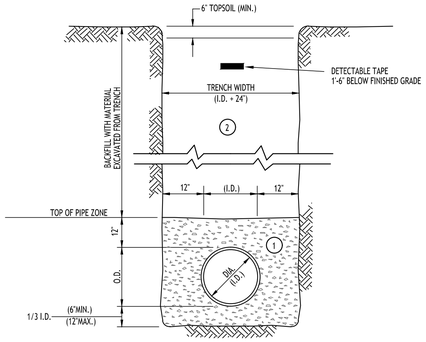
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

SEWER/WATERLINE TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

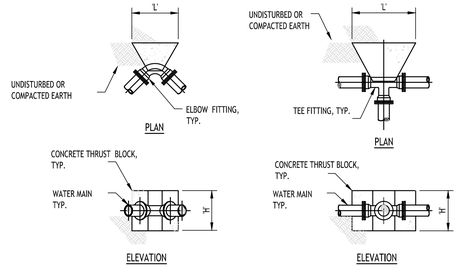
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

SEWER/WATERLINE TRENCH SECTION IN UNPAVED AREAS

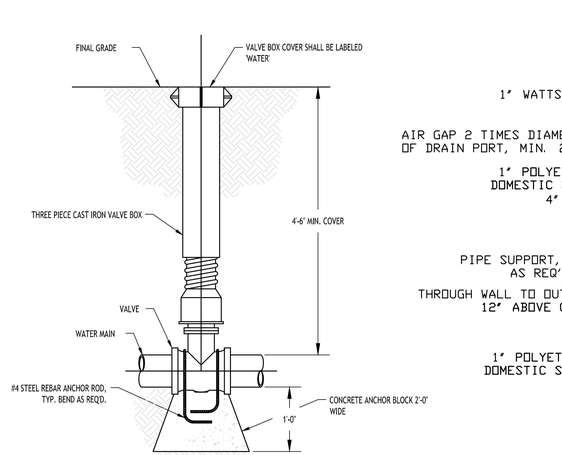
NOT TO SCALE



DIMENSION SCHEDULE								
PIPE SIZE	90° ELBOW		45° ELBOW		22.5° ELBOW		11.25° ELBOW	
	'H'	'L'	'H'	'L'	'H'	'L'	'H'	'L'
4"	1.5'	2.0'	1.0'	2.0'	1.0'	1.0'	1.0'	1.0'
6"	2.0'	2.5'	1.5'	2.0'	1.0'	1.5'	1.0'	1.5'
8"	2.5'	3.5'	2.0'	2.5'	1.5'	1.5'	1.0'	2.0'
10"	3.0'	4.5'	2.5'	3.0'	1.5'	3.0'	1.0'	2.5'
12"	3.5'	5.0'	3.0'	3.5'	2.5'	2.5'	1.5'	2.5'

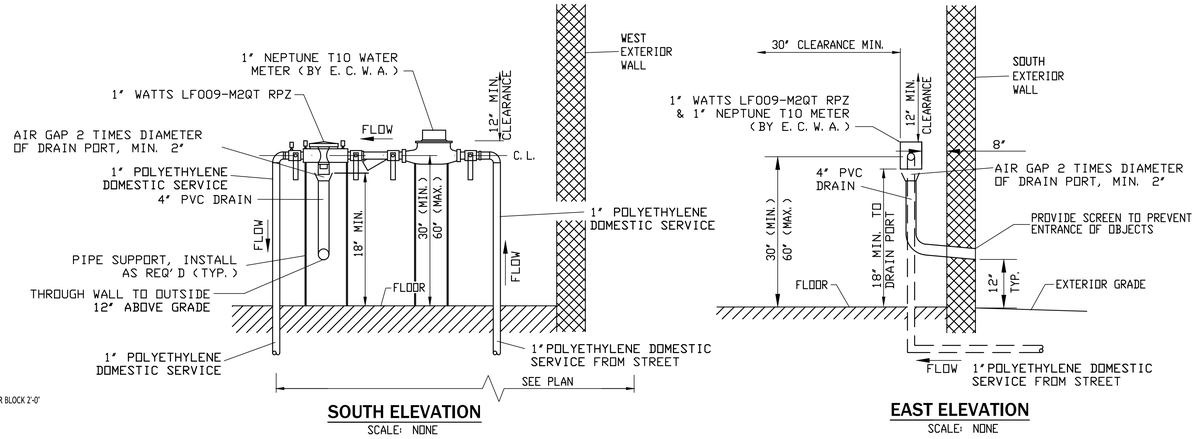
DIMENSION SCHEDULE		
PIPE SIZE	TEE OR TAP SLEEVE	
----	'H'	'L'
4"	1.5'	1.0'
6"	1.5'	2.5'
8"	1.5'	3.5'
10"	2.5'	3.5'
12"	3.5'	3.5'

THRUST BLOCK SCHEDULE



TYPICAL GATE VALVE DETAIL

NOT TO SCALE



1.5" DOMESTIC SERVICE BACKFLOW PREVENTER INSTALLATION

NOTES:
1. NO TAPS TO BE MADE UPSTREAM OF RPZ & METER.
2. HEAT, LIGHT AND ELECTRIC TO BE PROVIDED AT RPZ LOCATION.
3. COORDINATE LOCATION WITH ARCHITECTURAL PLANS.

1.b

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

REVISIONS:
No. Description Date

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

STATE OF NEW YORK
M. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER
Sealed 11/20/2024

DRAWING NAME:
Utility Details

Date: 11/20
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-403

Project No: 24.4019

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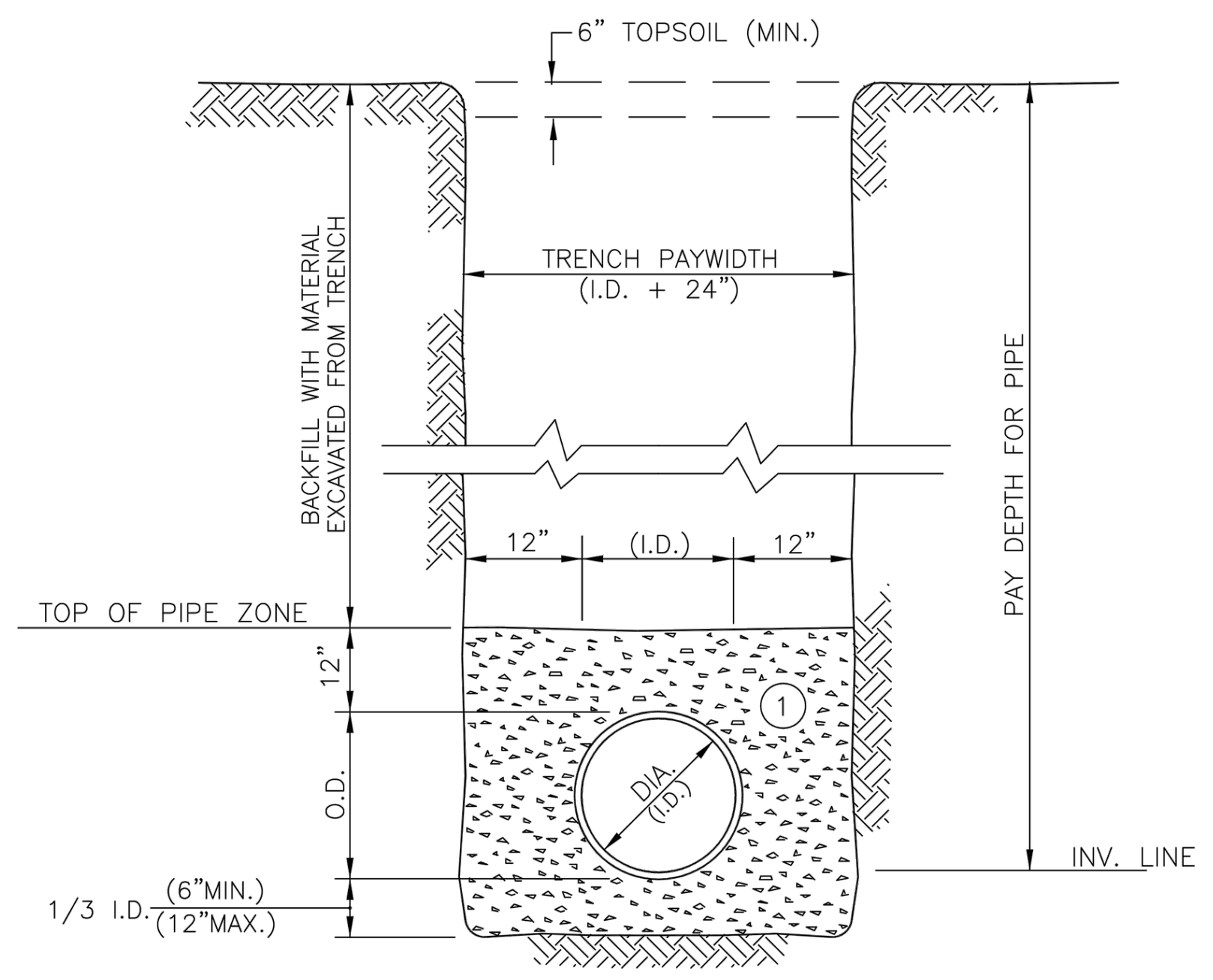
UNSHEETED TRENCH DETAIL
(NOVEMBER 2023)



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT LATEST EDITION)

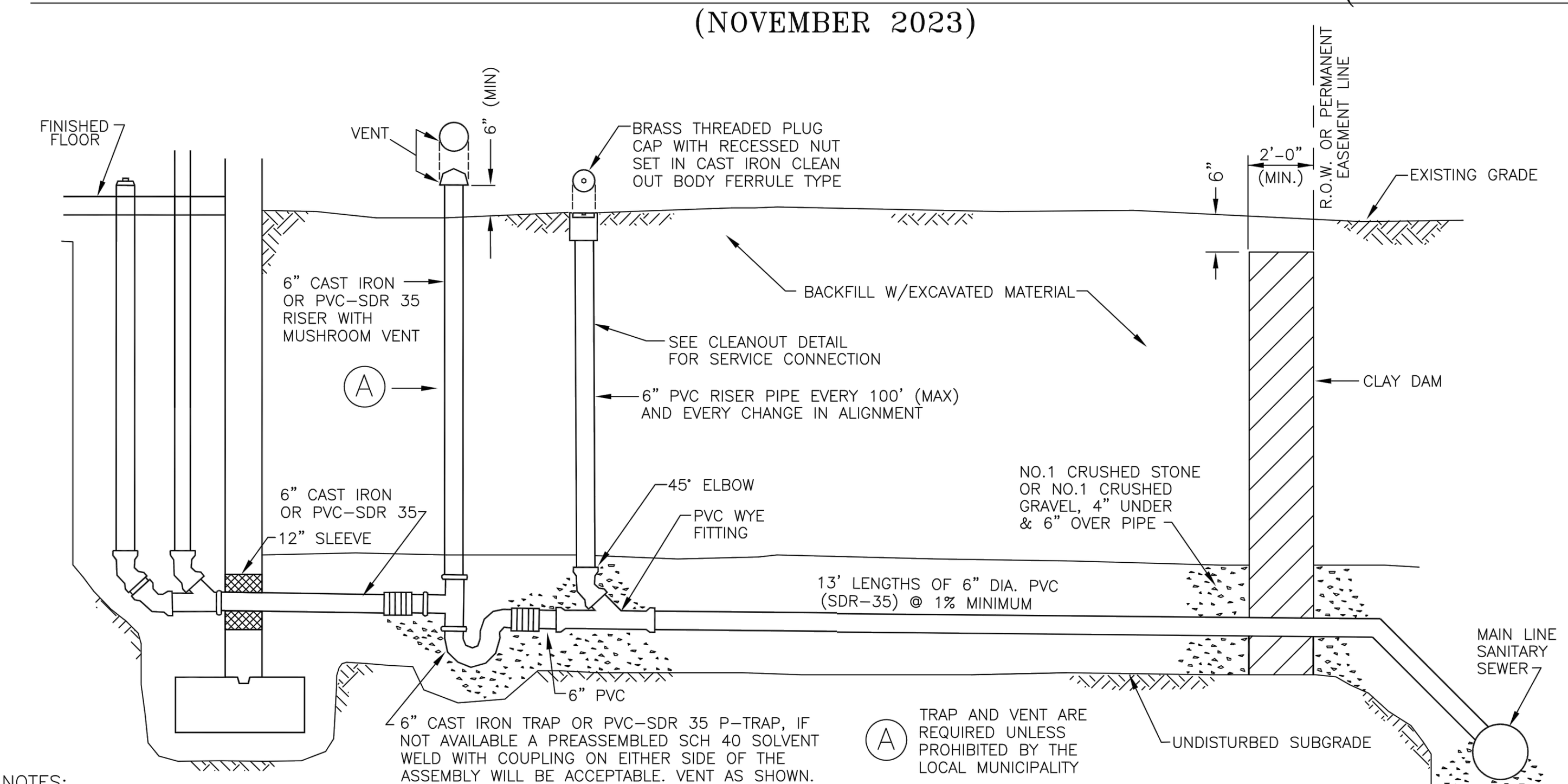
(1) NO.1 CRUSHED STONE WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN 1" AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1 5/20/93	NOTE 2: PIPE INSTALLATION	STD.DETAIL 1
Rev. 2 2/7/94	ADDED NOTE C & D	
File: D-01	Date: 3/1/91	

File: V:\DSM\Engineering\CAD\Details\Details November 2023\D-01.dwg, Last saved: 12/11/2023, Plot Date: 12/11/2023, Plot Style: DETAILS.CTB

TYPICAL COMMERCIAL SERVICE WITHOUT BASEMENT DETAIL (NEW BUILDS)
(NOVEMBER 2023)



NOTES:

1. NO INSPECTION WILL BE PROVIDED WITHOUT A PERMIT. INSPECTIONS REQUIRE 48 HR. ADVANCE NOTICE FOR SCHEDULING.
2. ALL WORK MUST BE INSPECTED BY A COUNTY INSPECTOR.
3. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST ASTM SPECIFICATION D-3033/D-3034. CAST IRON PIPE MATERIAL SHALL BE EXTRA HEAVY CAST IRON MEETING THE REQUIREMENTS OF ASTM A74-42.
4. CLEANOUTS MUST BE INSTALLED IN LAWN AREAS, NOT IN SIDEWALK OR DRIVEWAY AREAS, PREFERABLY BETWEEN THE CURB OR EDGE OF PAVEMENT AND THE SIDEWALK.
5. SELECT BACKFILL REQUIRED UNDER PAVED AREAS.
6. CONCRETE ENCASEMENT IF COVER DEPTH IS LESS THAN 4'-0" UNDER PAVED AREAS.
7. MIN. DEPTH OF COVER 3'-0".
8. CLEANOUT MEASUREMENTS SHALL START FROM CENTERLINE OF MAIN SEWER FOR NEARSIDE LATERALS AND FROM THE 6" CLEANOUT FOR FAR SIDE CONNECTIONS. A CLEANOUT MAY BE REQUIRED FOR ANY ABRUPT CHANGES IN LATERAL DIRECTION FLOW.
9. A 6" CLEANOUT IS REQUIRED AT R.O.W. WHENEVER THE MAIN SEWER IS UNDER THE PAVEMENT LIMITS OR AT FAR SIDE OF PAVEMENT.
10. ANY SEWER LAID THROUGH OR OVER A SEPTIC TANK MUST BE CAST IRON (SEPTIC TANK MUST BE FILLED WITH BANK RUN GRAVEL.)
11. ANY EXCAVATION TO BE LEFT OPEN OVERNIGHT SHALL BE COMPLETELY ENCLOSED IN FENCING, OR WHERE NECESSARY, COVERED WITH STEEL PLATES.
12. DOWN SPOUTS, SUMP PUMPS, AND FOOTING DRAINS ARE NOT PERMITTED TO BE CONNECTED TO THE LATERAL.
13. NO CONNECTION SHALL BE MADE UNTIL BUILDING ROOF IS ERECTED.

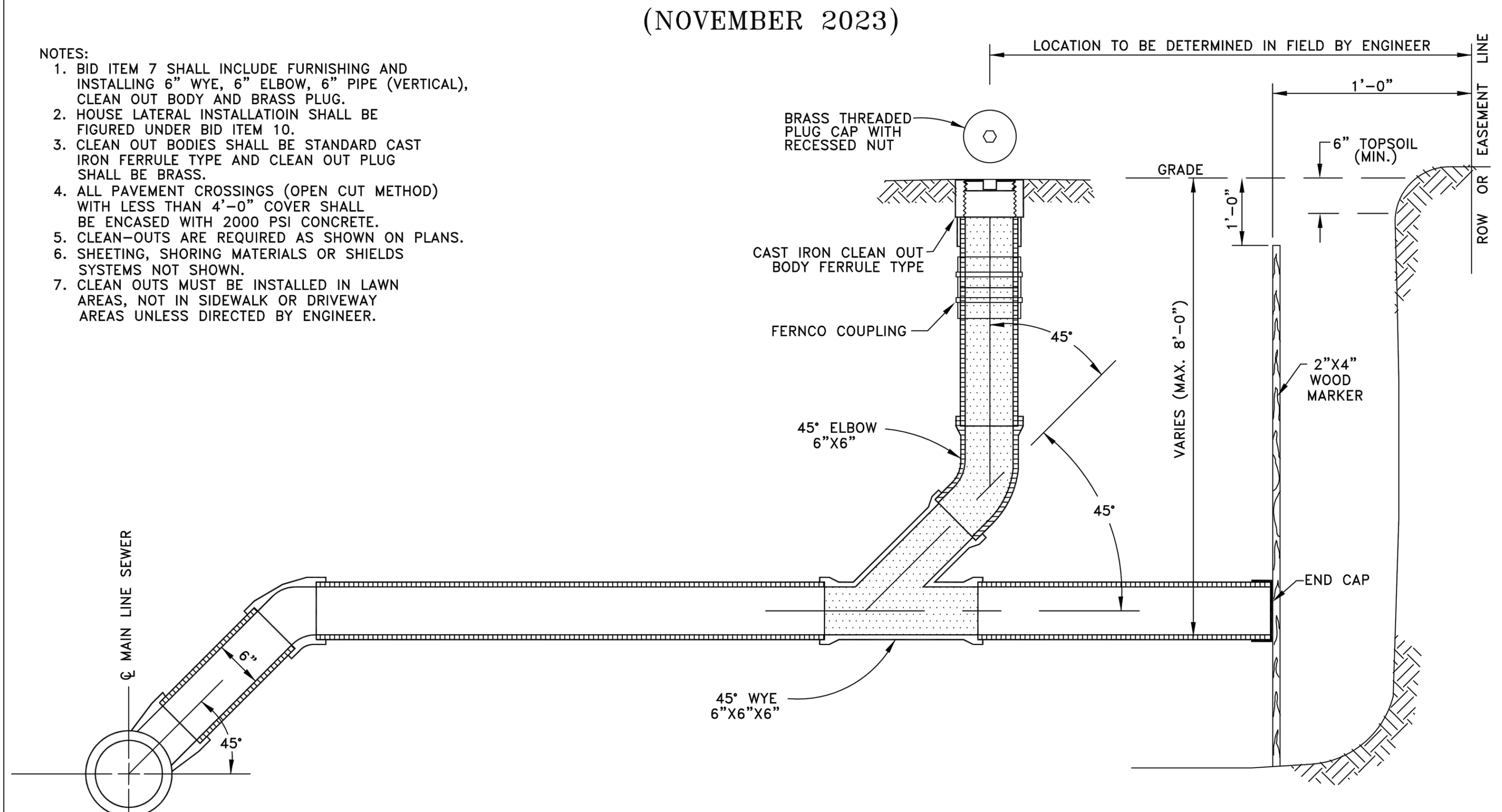
ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 6/05	ADDED NOTE 18 & CLASS 52 TYPE CI PIPE	STD. DETAIL 22
Rev. 1/07	REMOVED OLD NOTES 2 AND 18 ADDED 1% MIN. TO SERVICE PIPE DETAIL	
Rev. 11/08	ADDED SLEEVE AND PVC-SDR 35	
Rev. 1/12	REVISED 6" CAST IRON TRAP NOTE	
Rev. 10/21	REMOVED VENT, RISER, AND TRAP ASSEMBLY	
Rev. 11/23	ADDED VENT, RISER, TRAP ASSEMBLY & (A)	
File: D-22	Date: 3/1/91	

File: V:\DSM\Engineering\CAD\Details\Details November 2023\D-22.dwg, Last saved: 12/5/2023, Plot Date: 12/12/2023, Plot Style: DETAILS.CTB

CLEAN-OUT DETAIL FOR SERVICE CONNECTION
(NOVEMBER 2023)

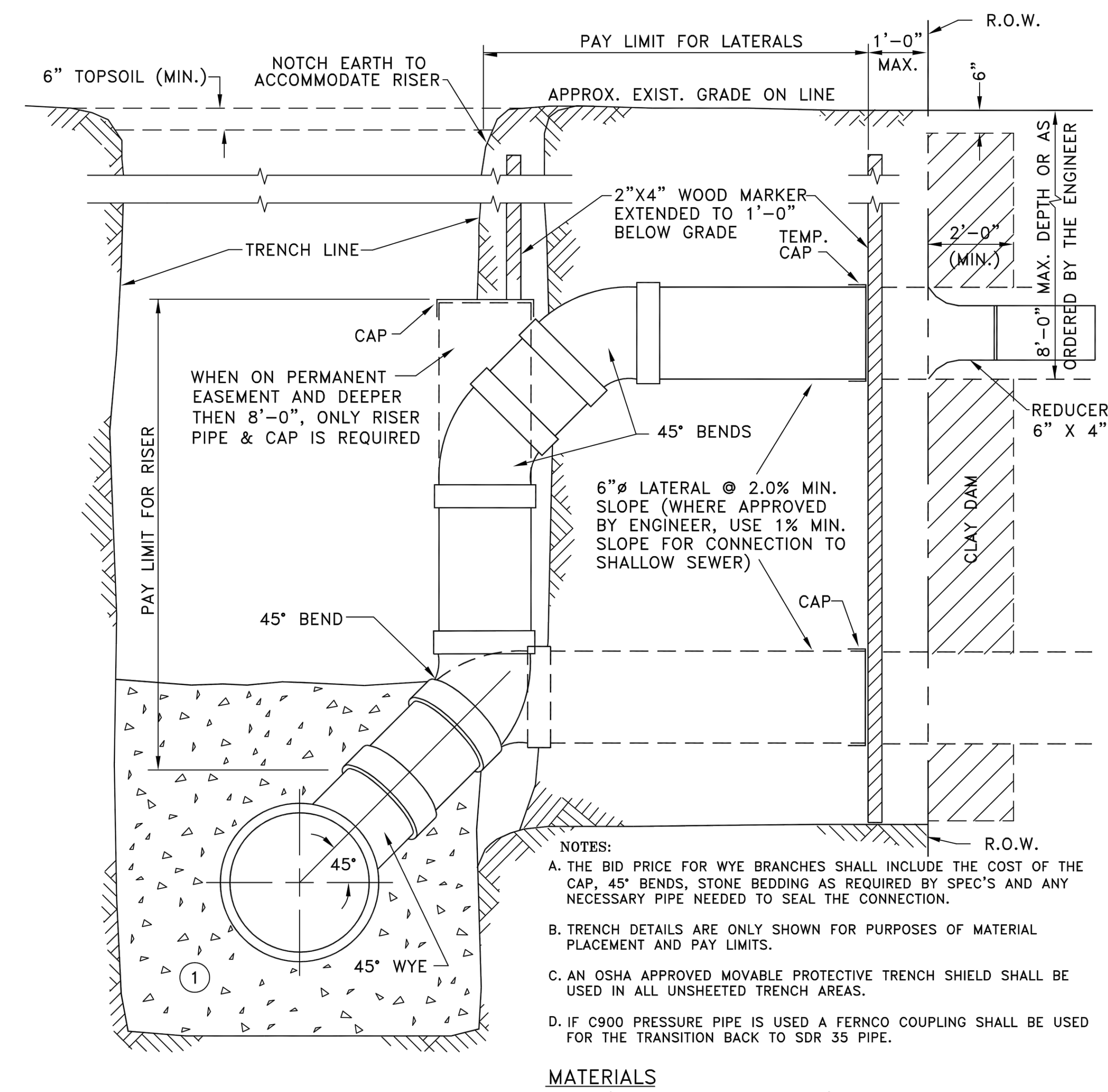
NOTES:
1. BID ITEM 7 SHALL INCLUDE FURNISHING AND INSTALLING 6" WYE, 6" ELBOW, 6" PIPE (VERTICAL), CLEAN OUT BODY AND BRASS PLUG.
2. HOUSE LATERAL INSTALLATIOIN SHALL BE FIGURED UNDER BID ITEM 10.
3. CLEAN OUT BODIES SHALL BE STANDARD CAST IRON FERRULE TYPE AND CLEAN OUT PLUG SHALL BE BRASS.
4. ALL PAVEMENT CROSSINGS (OPEN CUT METHOD) WITH LESS THAN 4'-0" COVER SHALL BE ENCASED WITH 2000 PSI CONCRETE.
5. CLEAN-OUTS ARE REQUIRED AS SHOWN ON PLANS.
6. SHEETING, SHORING MATERIALS OR SHIELDS SYSTEMS NOT SHOWN.
7. CLEAN OUTS MUST BE INSTALLED IN LAWN AREAS, NOT IN SIDEWALK OR DRIVEWAY AREAS UNLESS DIRECTED BY ENGINEER.



ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1	5/93	4'-0" COVER, C.I. CAP "RECESSED NUT"	STD. DETAIL 28
Rev. 2	2/94	CHANGED DIM LINE FOR MAX. DEPTH	
Rev. 3	12/01	ADDED NOTE 7	
Rev. 4	5/02	CHANGED C.I. CAP TO BRASS	
Rev. 5	6/05	1' MIN. FROM EDGE OF WALK NOTE	
Rev. 5	1/12	CHANGED C.I. TO BRASS NOTES 1 & 3	
File: D-28		Date: 3/1/91	

RISER DETAIL - SDR35
(MAIN LINE LATERAL CONNECTION)
(NOVEMBER 2023)



NOTES:

A. THE BID PRICE FOR WYE BRANCHES SHALL INCLUDE THE COST OF THE CAP, 45° BENDS, STONE BEDDING AS REQUIRED BY SPEC'S AND ANY NECESSARY PIPE NEEDED TO SEAL THE CONNECTION.

B. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND PAY LIMITS.

C. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

D. IF C900 PRESSURE PIPE IS USED A FERNCO COUPLING SHALL BE USED FOR THE TRANSITION BACK TO SDR 35 PIPE.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT LATEST EDITION)

(1) NO. 1 CRUSHED STONE WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER. NO SLAG WILL BE ALLOWED.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 2 1/97	ADDED 1/8 BELL & SPIGOT LONG SWEEP BEND	STD.DETAIL 27
Rev. 3 12/01	ADDED NOTE D REGARDING LOCATION OF VENTS AND CLEAN OUTS	
Rev. 4 5/02	CHANGED LONG SWEEP TO NORMAL 45° ADDED CAPS & CORRECTED PAY LIMITS	
File: D-27	Date: 3/1/91	

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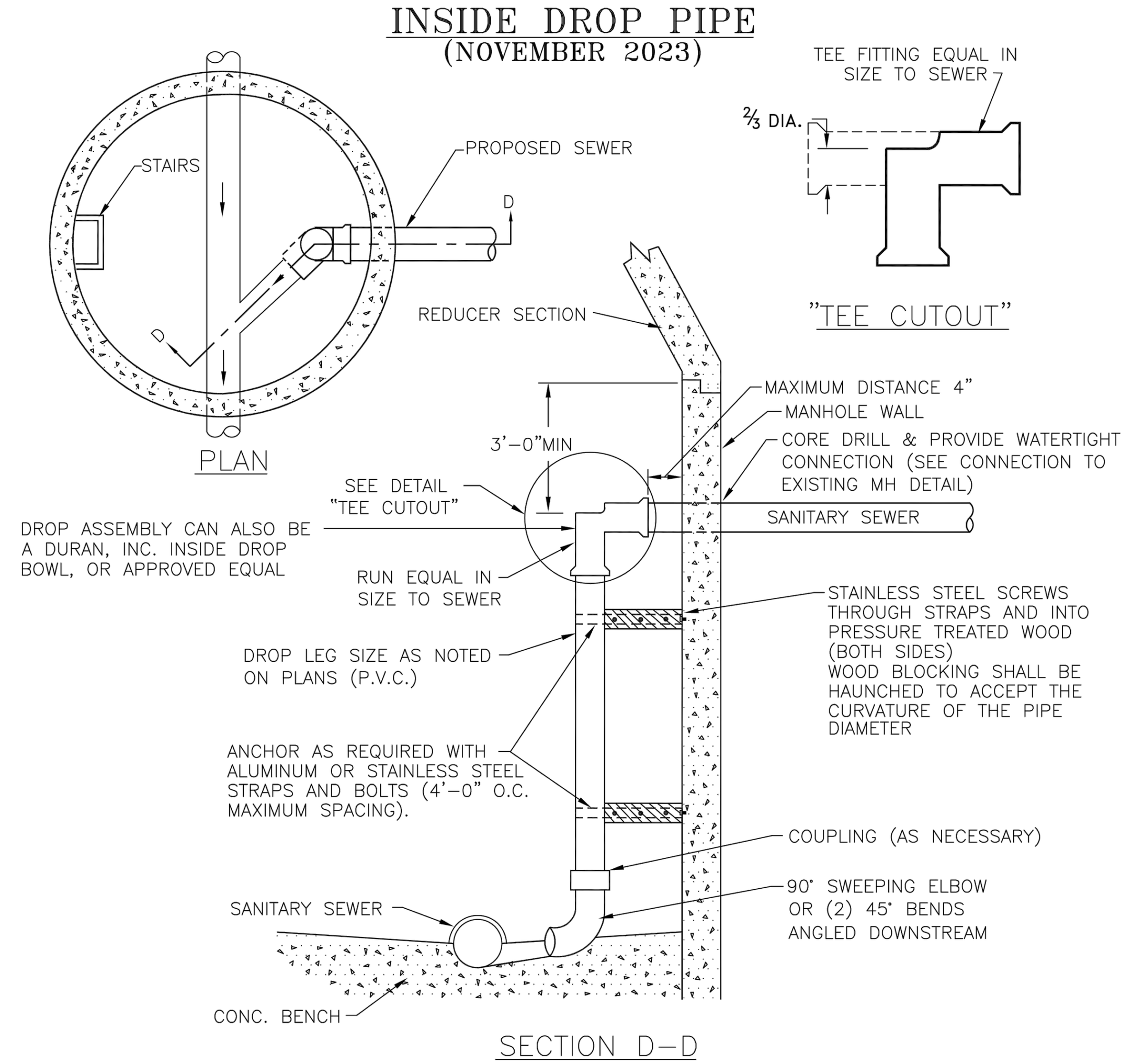
INSIDE DROP PIPE
(NOVEMBER 2023)



NOTES:
1. A DROP PIPE SHALL BE PROVIDED FOR A SEWER ENTERING A MANHOLE AT AN ELEVATION OF 24 INCHES OR MORE ABOVE THE MANHOLE INVERT. ONLY INSIDE DROP ASSEMBLIES WILL BE ALLOWED.
2. INSIDE DROP LEG SHALL BE INSTALLED ON MANHOLE WALL LOCATED AS SHOWN OR AS APPROVED BY ECDSM
3. ON NEW CONSTRUCTION INSIDE DROP ASSEMBLIES SHALL BE INSTALLED IN MANHOLES NOT LESS THAN 5'-0" IN DIAMETER.

PIPE SIZE	MANHOLE I. D.
18"	5'-0"
21"- 27"	6'-0"
30"- 36"	8'-0"

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

REVISIONS

4/24/93	CHANGED TEE CUTOUT	STD.DETAIL 18
6/1/93	BENCH CONFIGURATION & REDUCER SECTION CLEARANCE	
2/7/94	CHANGED MAX. DIST. FROM MH TO TEE ADDED STAINLESS STEEL BOLTS,SCREWS	
7/13/99	CHANGED NOTE NO.2, ADD SIZE CHART	
12/22/00	REVISED TEE CUTOUT & SPACERS NOTE	
6/23/05	ADDED DURAN, INC. DROP BOWL NOTE	
File: D-18	Date: 3/1/91	

File: V:\DSM\Engineering\CAD\Details\Details November 2023\D-18.dwg, Last saved: 12/5/2023, Plot Date: 12/12/2023, Plot Style: DETAILS.CTB

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Buildings
5500 Millersport Highway
Amherst, New York

REVISIONS:
No.	Description	Date

STATE OF NEW YORK R. CHRISTOPHER WOOD 076394 LICENSED PROFESSIONAL ENGINEER
Sealed 11/20/2024

DRAWING NAME:
Utility Details

Date: 11/20
Drawn By: C. W
Scale: As No

DRAWING NO.
C-404

Project No: 24.4019

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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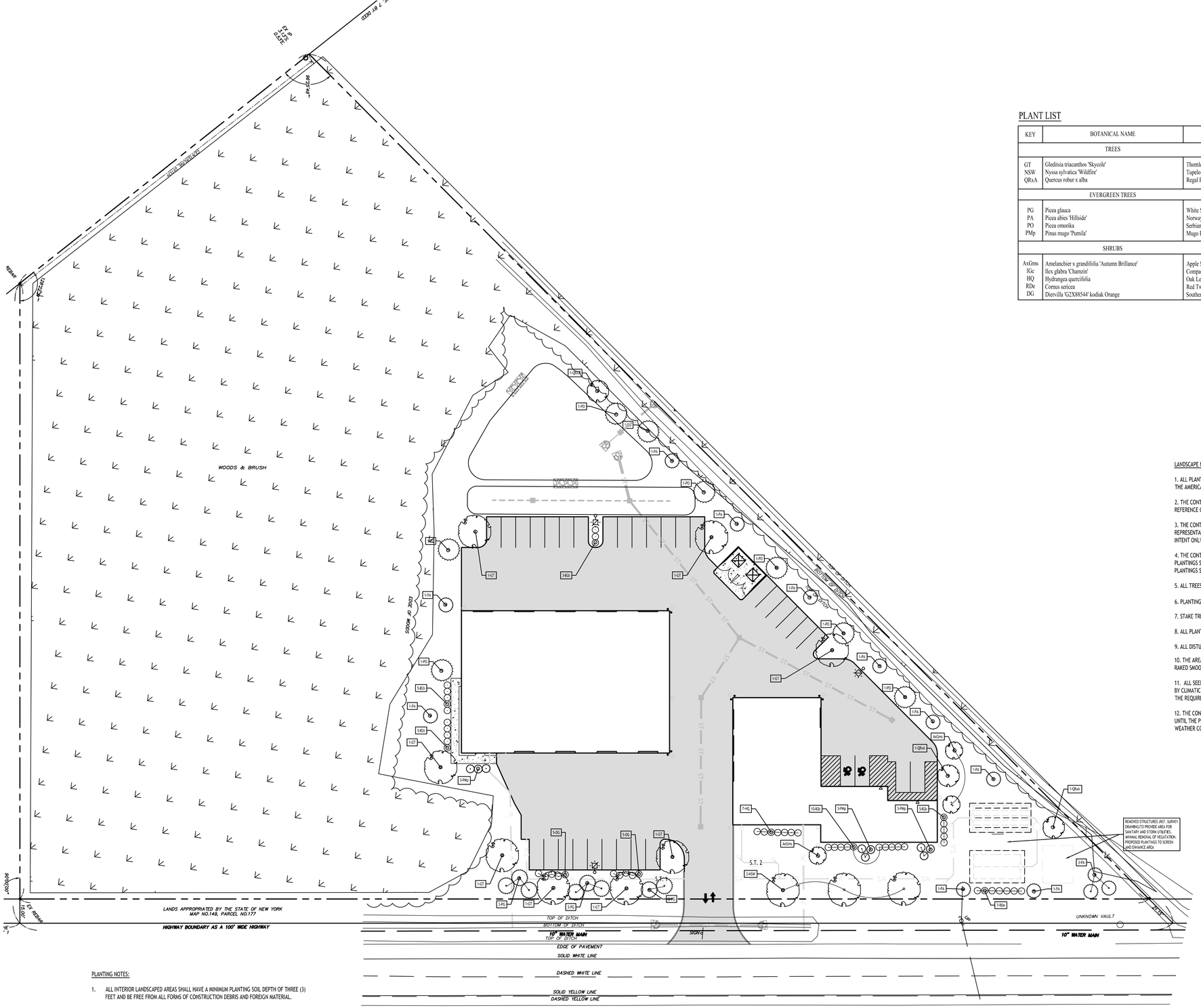

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	CAL.	SIZE	ROOT	QUANTITY	NOTES
	TREES						
GT	Gleditsia triacanthos 'Skycole'	Thornless Honey Locust - Skyline	2 1/2"		B&B	8	Grows to 40', high, 35' wide
NSW	Nyssa sylvatica 'Wildfire'	Tupelo 'Wilfire'	2 1/2"		B&B	3	Grows to 50', high, 15' wide
QRxA	Quercus robur x alba	Regal Prince Oak	2 1/2"		B&B	3	Grows to 45', high, 15' wide
	EVERGREEN TREES						
PG	Picea glauca	White Spruce		6-8'Min.	B&B	8	Grows to40-60', high, 10-20' wide
PA	Picea abies 'Hillside'	Norway Spruce - upright - Hillside		6-8'Min.	B&B	13	Grows to 25', high, 6-8' wide
PO	Picea ormorika	Serbian Spruce		5' Min.	B&B	8	Grows to 25', high, 4-6' wide
PMp	Pinus mugo 'Pumila'	Mugo Pine		18-24" Min.	B&B	9	Grows to 3', high, 4-6' wide
	SHRUBS						
AxGms	Amelanchier x grandifolia 'Autumn Brillance'	Apple Serviceberry		3 Gal.		4	Grows to 8-10', high, 10-12' wide
IGc	Ilex glabra 'Chamzin'	Compact Inkberry Holly		3 Gal.		28	Grows to 4', high, 4-6' wide
HQ	Hydrangea quercifolia	Oak Leaf Hydrangea		#3 Cont.		7	Grows to 8-15', high, 4-8' wide
RDe	Cornus sericea	Red Twig Dogwood		#2 Cont.		7	Grows to 5', high, 4-5' wide
DG	Diervilla 'G2X88544' kodiak Orange	Southern Bush Honeysuckle		#3 Cont.		10	Grows to 4' high, 3-4' wide

LANDSCAPE NOTES:

1. ALL PLANTS INSTALLED SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED ON THE PLANS AND IN THE LATEST EDITION ON THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI 260.1

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF, THE QUANTITIES SHOWN ARE A MINIMUM AND ARE FOR REFERENCE ONLY.

3. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANTING MATERIAL LOCATIONS AND CONTACT THE OWNERS FIELD REPRESENTATIVE PRIOR TO ACTUALL INSTALLING. THE PLANTING MATERIAL LOCATIONS SHOWN ON THE PLANS ARE TO CONVEY THE DESIGN INTENT ONLY, ACTUAL LOCATIONS WILL BE FINALIZED BY THE OWNERS FIELD REPRESENTATIVE AT THE TIME OF INSTALLATION.

4. THE CONTRACTOR IS HEREBY NOTIFIED THAT IF UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE PLANTINGS, ALL PROPOSED PLANTINGS SHALL BE INSTALLED A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY, CONTACT THE OWNERS FIELD REPRESENTATIVE IF PLANTINGS SHOWN ON THE PLANS VIOLATE THIS SITUATION.

5. ALL TREES SHALL BE INSTALLED A MINIMUM OF 20' FROM ANY OVERHEAD ELECTRIC LINES.

6. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 3 PARTS TOPSOIL, 1 PART PEAT MOSS, & PART MILORGANITE.

7. STAKE TREES IMMEDIATELY FOLLOWING INSTALLATION.

8. ALL PLANTED AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED HARDWOOD BARK MULCH WITH 'PREEN'.

9. ALL DISTURBED AREAS NOT RECEIVING PLANTINGS (INCLUDING RIGHT-OF-WAYS) SHALL BE SEEDED.

10. THE AREAS ON THE PLAN TO BE SEEDED SHALL HAVE 4" MINIMUM OF TOPSOIL, DISK PLOWED, LEVELED AND HAND RAKED SMOOTH. SURFACE SHALL BE ROLLED TO REMOVE LUMPS.

11. ALL SEEDED AREAS SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE SPECIFICATION INDICATED. WHERE REQUIRED BY CLIMATIC CONDITIONS, SLOPE OR SEASON OF PLANTING, SOD MAY BE SUBSTITUTED FOR SEEDING IN ORDER TO ACHIEVE THE REQUIRED COVERAGE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MOWING AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER, THIS SHALL INCLUDE WATERING DAILY FOR 15 DAYS OR AS REQUIRED BY WEATHER CONDITIONS AND RE-SEEDING OF THIN SPOTS FOLLOWING THE GERMINATION OF THE SEEDS.

PLANTING NOTES:

1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SCREENED TOPSOIL. SEASONAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

LEGEND

DECIDUOUS TREE

SMALL TREE

EVERGREEN TREE/SHRUB

BUSH/ORNAMENTAL GRASS

PERENNIAL

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 0 30 60Ft.

N

Landscape Plan

SCALE: 1"=30'

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

REVISIONS:

No.	Description	Date

REGISTERED LANDSCAPE ARCHITECT ROBERT C. WATERMAN No. 001782 STATE OF NEW YORK

DRAWING NAME:

Landscape Plan

Date: 11/20
Drawn By: C. W
Scale: As No

DRAWING NO.

L-100

Project No: 24.4019

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

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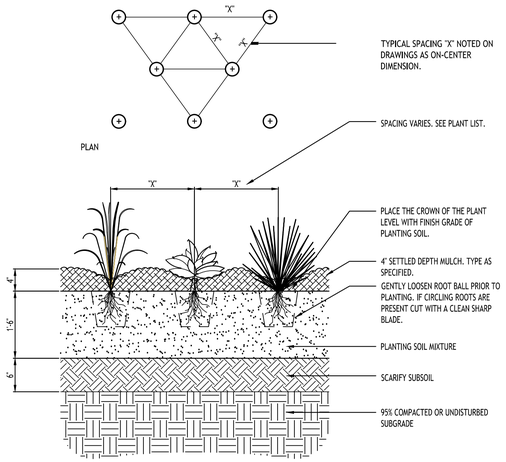
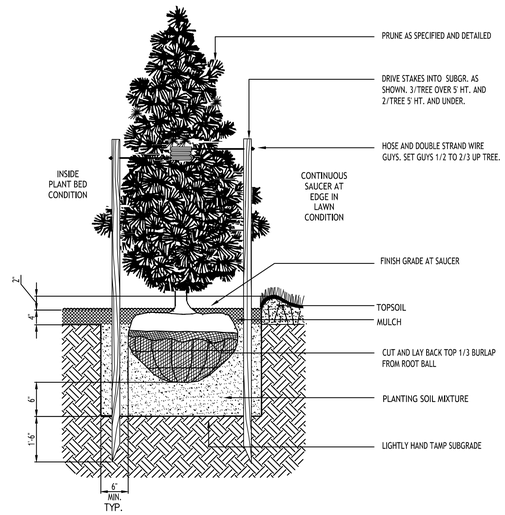


TYPICAL SPACING 'X' NOTED ON DRAWINGS AS ON-CENTER DIMENSION.

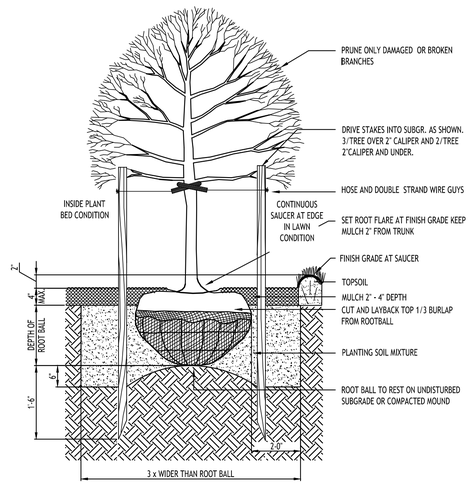
NOTE: PLANT BULBS IN TRENCHES AND BOUQUET PLANTING GROUPS.

GROUND COVER PLANT SPACING

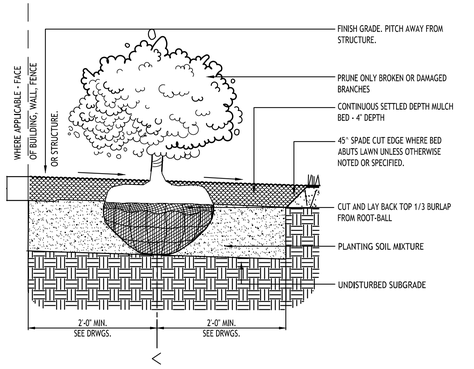
NO TO SCALE



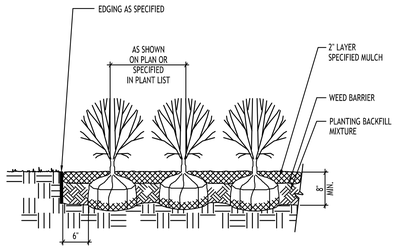
STD. EVERGREEN PLANTING



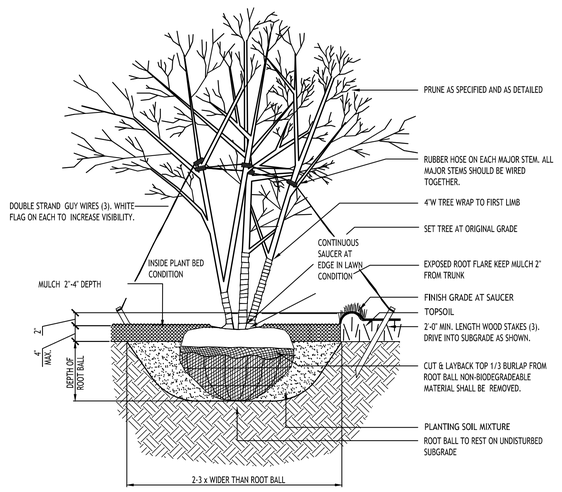
STD. DECIDUOUS TREET PLANTING



STD. SHRUB PLANTING



STD. SHRUB SPACING/PLANTING



STD. MULTI STEM DECIDUOUS TREE PLANTING

1.b

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

REVISIONS:

No.	Description	Date



DRAWING NAME:

Landscape Details

Date: 11/2(
Drawn By: C. W
Scale: As No

DRAWING NO.

L-101

Project No: 24.4019

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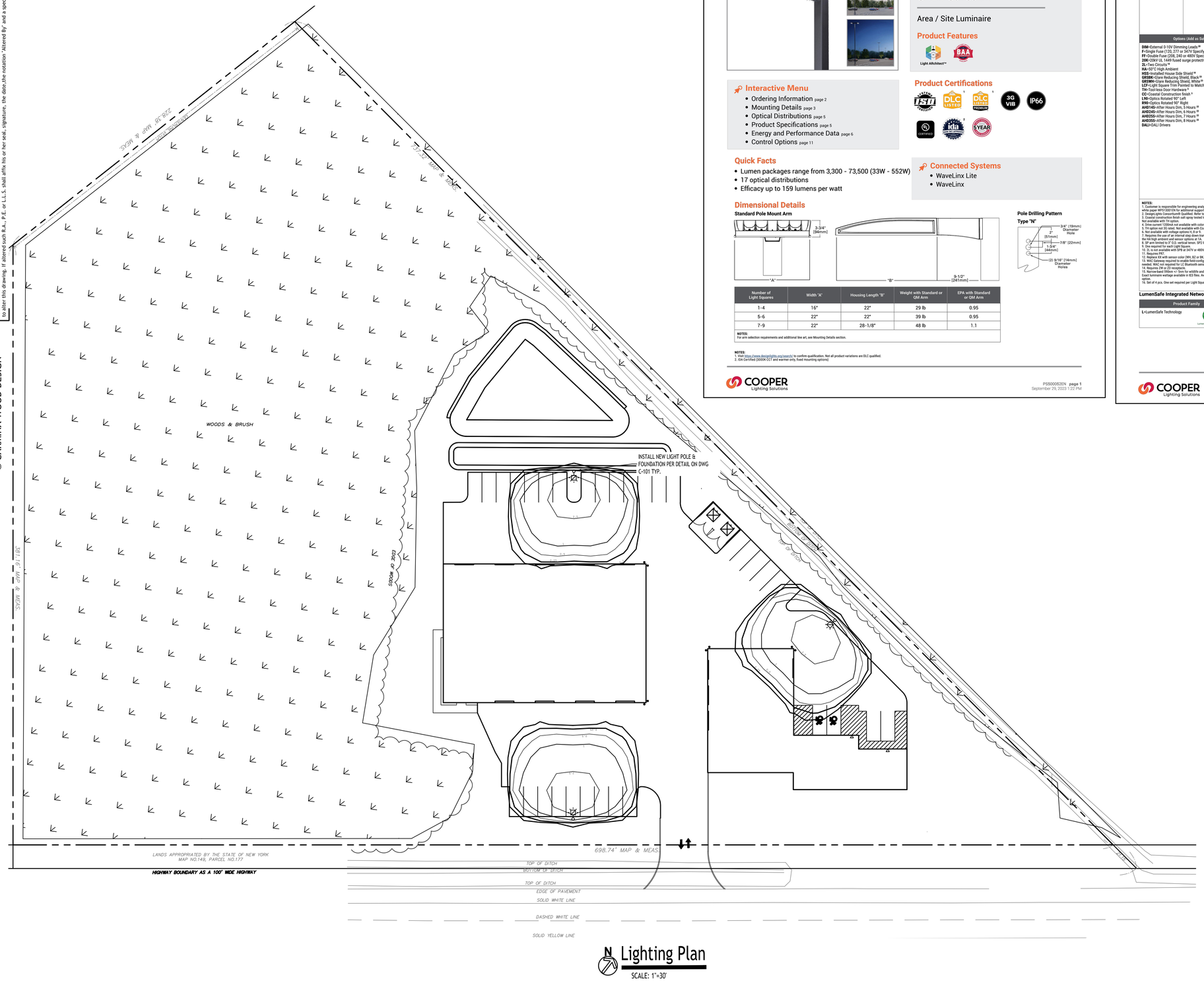


N

Lighting Plan

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison

GALN Galleon II

Area / Site Luminaire

Product Features

Light Architect™ · BAA

Interactive Menu

- Ordering Information page 2
- Mounting Details page 3
- Optical Distributions page 5
- Product Specifications page 6
- Energy and Performance Data page 6
- Control Options page 11

Product Certifications

ISTI · DLC 1 · DLC PREMIUM 1 · 3G VIB · IP66 · cULus Certified · kdx 3 · 5 YEAR

Quick Facts

- Lumen packages range from 3,300 - 73,500 (33W - 552W)
- 17 optical distributions
- Efficacy up to 159 lumens per watt

Connected Systems

- WaveLinx Lite
- WaveLinx

Dimensional Details

Standard Pole Mount Arm

Pole Drilling Pattern

Type "N"

Number of Light Squares	Width "A"	Housing Length "B"	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16"	22"	29 lb	0.95
5-6	22"	22"	39 lb	0.95
7-9	22"	28-1/8"	48 lb	1.1

NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. 5SA Certified (3000K CCT and warmer only, fixed mounting options)

COOPER Lighting Solutions

McGraw-Edison

GALN Galleon II

Ordering Information

SAMPLE NUMBER: **GALN-SA4C-740-U-T4FT-GM**

Product Family [1, 2]	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GALN=Galleon II **BAA-GALN**=Galleon II Buy American Act Compliant [3] **TAA-GALN**=Galleon II Trade Agreements Act Compliant [3]	**SA1**=1 Square **SA2**=2 Squares **SA3**=3 Squares **SA4**=4 Squares **SA5**=5 Squares **SA6**=6 Squares **SA7**=7 Squares **SA8**=8 Squares **SA9**=9 Squares	**A**=400mA **B**=800mA **C**=1000mA **D**=1200mA [4, 5] **Z**=Configured [6]	**722**=703CRI, 2200K **727**=703CRI, 2700K **730**=703CRI, 3000K **735**=703CRI, 3500K **740**=703CRI, 4000K **750**=703CRI, 5000K **760**=703CRI, 6000K **827**=803CRI, 2700K **830**=803CRI, 3000K **835**=803CRI, 3500K **840**=803CRI, 4000K **930**=903CRI, 3000K **935**=903CRI, 3500K **940**=903CRI, 4000K **950**=903CRI, 5000K **AMB**=Amber, 590nm [6, 17]	**U**=120-277V **H**=347V-480V [7, 18] **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [7, 8] **9**=347V [7] **DV**=277V-480V DuraVolt Drivers [9, 10, 17]	**T1**=Type I **T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **TFTM**=Type V Narrow **TFTM**=Type V Square Medium **TFTW**=Type V Square Wide **SL2**=Type 2 w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **AFL**=Automotive Frontline	**[blank]**=Standard Pole Mount Arm **QU**=Quick Mount Universal Arm **QM**=Pole Mount Arm with Quick Mount Adaptor **PA**=Pole Mount, Adjustable **SF**=2" Slipfitter, Adjustable [11] **SFQ**=2-7/8" Slipfitter, Adjustable [11] **QK**=Quick Mount Mast Arm, Fixed **MA**=Mast Arm, Fixed **WM**=Wall Mount, Fixed **WA**=Wall Mount, Adjustable **UP**=Upswept Arm	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **RALXX**=Custom Color [12]

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately) [13]
DIM=External 0-10V Dimming Leads [19] **F**=Single Fuse (120, 277 or 347V Specify Voltage) **FF**=Double Fuse (208, 240 or 480V Specify Voltage) **20K**=20KV UL 1449 fused surge protective device [14] **HA**=50°C High Ambient **HA**=55°C High Ambient **HSS**=Installed House Side Shield [15] **GRSBK**=Glare Reducing Shield, Black [15] **GRSWH**=Glare Reducing Shield, White [15] **LCP**=Light Square Trim Painted to Match Housing [16] **TW**=Tool-less Door Hardware [9] **CC**=Coastal Construction finish [9] **LNO**=Optics Rotated 90° Left **RNO**=Optics Rotated 90° Right **AHD1545**=After Hours Dim, 5 Hours [20] **AHD2645**=After Hours Dim, 6 Hours [20] **AHD2545**=After Hours Dim, 7 Hours [20] **AHD3545**=After Hours Dim, 8 Hours [20] **DALI**=DALI Drivers	**BPC**=Button Type Photocontrol. Must specify voltage 120V, 208V, 240V or 277V. [4] **PR**=NEMA 3-Prong Photocontrol Receptacle **PR7**=NEMA 7-Prong Photocontrol Receptacle [21] **PADC**=Field Adjustable Dimming Controller [22] **SCR**=Shorting Cap Receptacle **SPB3**=Dimming Motion Sensor, 9'-20' mounting [24] **SPB4**=Dimming Motion Sensor, 21'-40' mounting [24] **SPB3X**=Dimming Motion Sensor, limited square count, 9'-20' mounting [24] **SPB4/X**=Dimming Motion Sensor, limited square count, 21'-40' mounting [24] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9'-20' Mounting [24] **MS/DIM-L40**=Motion Sensor for Dimming Operation, 21'-40' Mounting [24] **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle [25] **ZD**=SR Driver-enabled 4-PIN Twistlock Receptacle [25] **ZW-WDBXX**=WaveLinx Lite, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting [26, 27] **ZW-WDFXX**=WaveLinx Lite, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting [26, 27] **ZD-WDBXX**=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting [26, 27] **ZD-WDFXX**=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting [26, 27] **ZW-SWPDXXX**=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [26, 28, 29] **ZW-SWPOSXX**=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [26, 28, 29] **ZD-SWPDXXX**=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [26, 28, 29] **ZD-SWPOSXX**=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [26, 28, 29] **DIM10-L20**=Synapse Occupancy Sensor (9'-20' Mounting) [24] **DIM10-L40**=Synapse Occupancy Sensor (21'-40' Mounting) [24]	**OA/RA1016**=NEMA Photocontrol Multi-Tap - 105-285V **OA/RA1027**=NEMA Photocontrol - 480V **OA/RA1201**=NEMA Photocontrol - 347V **OA/RA1014**=Photocontrol Shorting Cap **MA1032**=Shorting Cap **MA1332**=10kV Surge Module Replacement **MA1036-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1037-XX**=@180° Tenon Adapter for 2-3/8" O.D. Tenon **MA1197-XX**=@120° Tenon Adapter for 2-3/8" O.D. Tenon **MA1188-XX**=@090° Tenon Adapter for 2-3/8" O.D. Tenon **MA1189-XX**=@090° Tenon Adapter for 2-3/8" O.D. Tenon **MA1190-XX**=@090° Tenon Adapter for 2-3/8" O.D. Tenon **MA1191-XX**=@120° Tenon Adapter for 2-3/8" O.D. Tenon **MA1038-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon **MA1039-XX**=@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1192-XX**=@120° Tenon Adapter for 3-1/2" O.D. Tenon **MA1193-XX**=@090° Tenon Adapter for 3-1/2" O.D. Tenon **MA1194-XX**=@090° Tenon Adapter for 3-1/2" O.D. Tenon **MA1195-XX**=@090° Tenon Adapter for 3-1/2" O.D. Tenon **SRA728**=Adapter kit for mounting 3" SP arm to 2-3/8" O.D. vertical tenon **FSIT-100**=Wireless Configuration Tool for MS/DIM [30] **LS/HSS**=Field Installed House Side Shield [15] **LS/GRSBK-2PK**=Glare Reducing Shield, Black [15] **LS/GRSWH-2PK**=Glare Reducing Shield, White [15] **LS/PPS**=Perimeter Shield, Black **WSLC-TP-15A**=WaveLinx Outdoor Control Module [31, 32] **WDB-XX**=WaveLinx Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting [33, 34, 35] **WDF-XX**=WaveLinx Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting [33, 34, 35] **SWPD4-XX**=WaveLinx Sensor, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [33, 34, 35, 36] **SWPOS-XX**=WaveLinx Sensor, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [33, 34, 35, 36]

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP130016EN for additional support information.
2. Design Lights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
4. Not available with HA option.
5. 1200mA current 530mA not available with color temperatures 722, 727, 827, 830 or 930 when the HSS option is selected.
6. Set of 4 pcs. One set required per Light Square.
7. Not available with SPB or 347V or 480V. Not available with WaveLinx or Enlighted sensors, or 20kV surge option.
8. Requires the use of an internal step down transformer when combined with sensor options. Not available in combination with the HA high ambient and sensor options at 1A.
9. Requires the use of an external step down transformer when combined with sensor options. Not available in combination with the HA high ambient and sensor options at 1A.
10. DV not available with SPB or 347V or 480V. Not available with WaveLinx or Enlighted sensors, or 20kV surge option.
11. Requires PA.
12. Replace XX with sensor color (NH, BZ or BK.)
13. WAC Gateway required to enable field configurability: Order WAC-PoE and WPOE-120 (12V to PoE injector) power supply if needed. WAC not required for LC Bluetooth sensors.
14. Not for use with T1, SWQ, SWQ or RW options.
15. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Exact luminaire wattage available in IES files. Available with SWQ, SLQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
16. Set of 4 pcs. One set required per Light Square.
17. Not available with HA option.
18. Not for use with T1, SWQ, SWQ, SWQ or RW options.
19. Cannot be used with other control options.
20. Low voltage control lead brought out 18" outside fixture. Not available with DALI or integrated controls options
21. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle when photocontrol accessory is selected. Motion sensor has an integral photocell.
22. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory.
23. Not for use with T1, T4FT, T4W or SL4 optics.
24. Sensor programmed with Bluetooth enabled for configuration. See controls page for details.
25. Replace X with number of Light Squares controlled by the SPB, referencing the "SPB/X Availability Table" on the controls page.
26. Not available with HSS, GRSWH or GRSBK.
27. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information.
28. Requires a minimum of 4 Light Squares when ordered with WaveLinx or Enlighted sensors.
29. For SA4 or TA4 requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
30. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information.
31. Must be ordered with fixture for factory installed and hardware grounded systems.
32. Not available in 1 square configuration at 850mA or below. Not available with any control option except SPB.
33. Not available with PR7 or other motion response control options.
34. Cannot be used with PR7 or other motion response control options.
35. Use GALN Product Configurator to specify lumen output, drive current and wattage. Not available with AMB.
36. Uses the FSP-211 motion sensor. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology	**D**=Standard Dome Camera **H**=Hi-Res Dome Camera **Z**=Remote PTZ Camera	**C**=Cellular, No SIM **A**=Cellular, AT&T **V**=Cellular, Verizon **S**=Cellular, Sprint	**E**=Ethernet Networking

COOPER Lighting Solutions

Proposed Warehouse Buildings

5500 Millersport Highway
Amherst, New York

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

REVISIONS:

No.	Description	Date

STATE OF NEW YORK · R. CHRISTOPHER WOOD · 076394 · LICENSED PROFESSIONAL ENGINEER

Sealed 11/20/2024

DRAWING NAME:

Lighting Plan

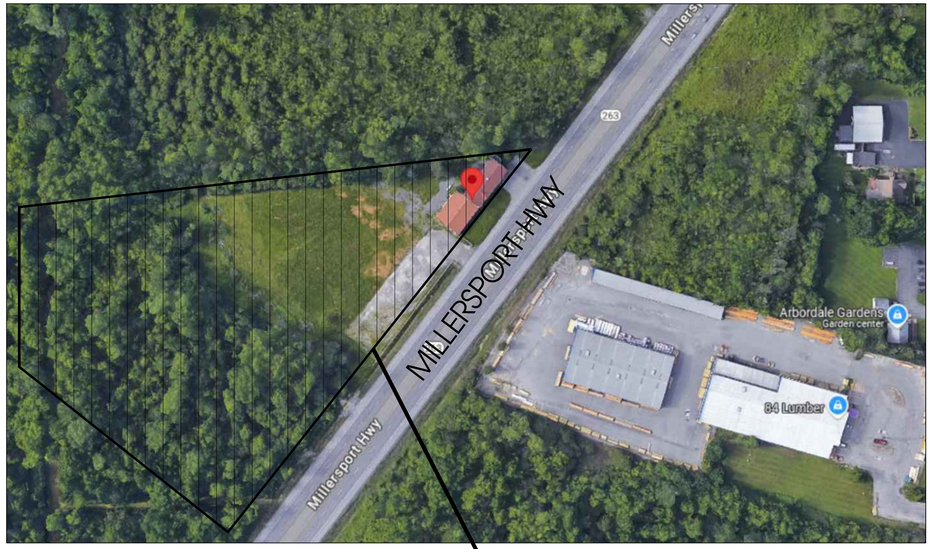
Date: 11/20
Drawn By: C. W.
Scale: As No

DRAWING NO.

LP-100

Project No: 24.4019

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



1.1 Aerial View (Existing)

N.T.S.



1.3 Concept Rendering (Millersport Hwy South-West)

N.T.S.







1.2 Existing Conditions

N.T.S.



1.4 Concept Rendering (Millersport Hwy North-East)

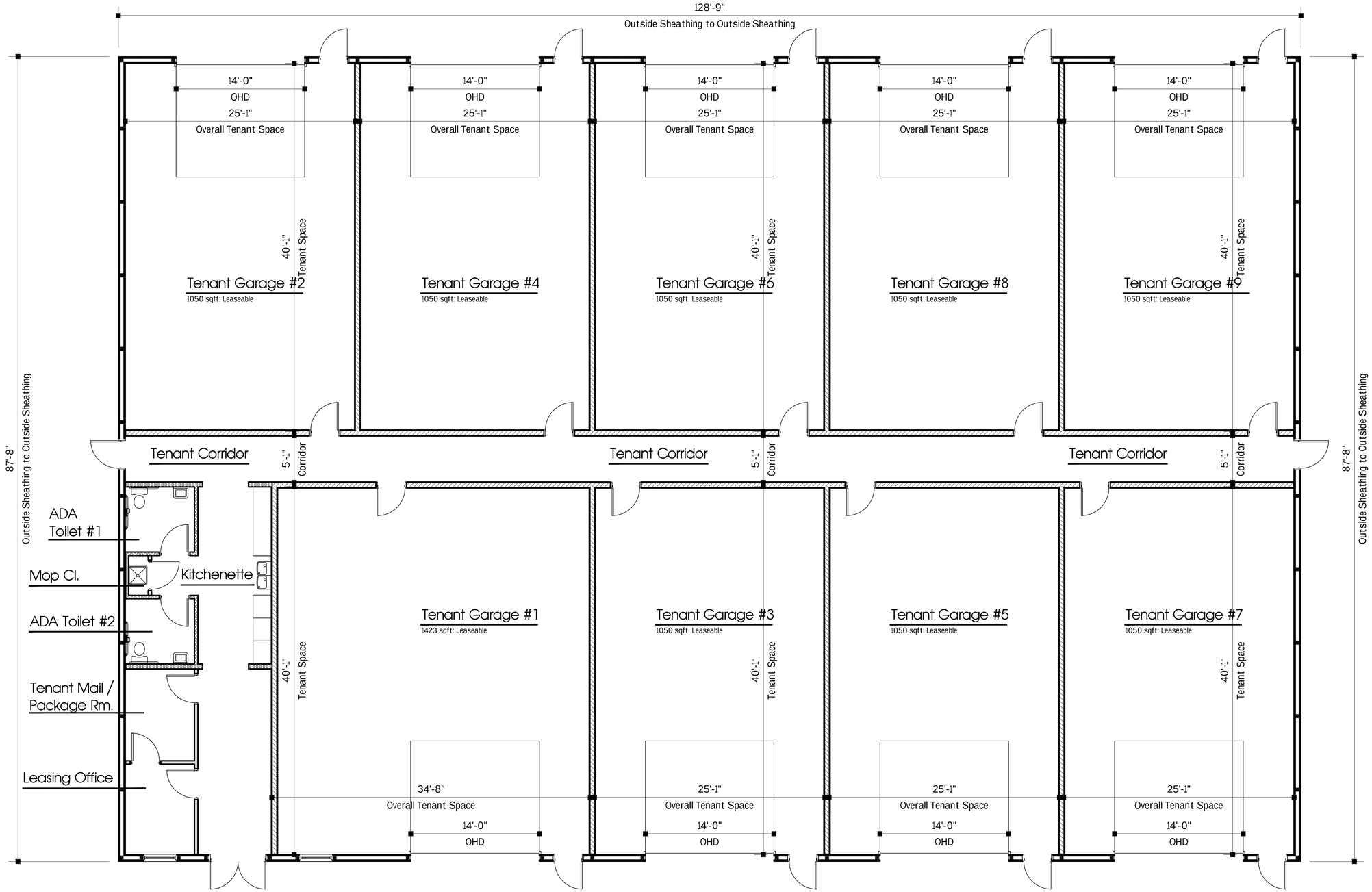
N.T.S.

Proposed Office / Shop & Tenant Commercial Shell
For:

Stephens Plumbing
5500 Millersport Highway

SUTTON architecture
"Design 2 Build"

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



Legend

- New Door
- 3 Ply 2x6 Post & Purlin Pole Barn Wall
- 2x6 Fire Rated Tenant Wall
- 2x6 Insulated Gyp. Wall
- 2x4 Insulated Gyp. Wall
- 2x4 Gyp. Wall
- 2x4 Gyp. Wall (1) Sided
- Window

2.1 Tenant Garage Concept Plan

3/16" = 1'-0"

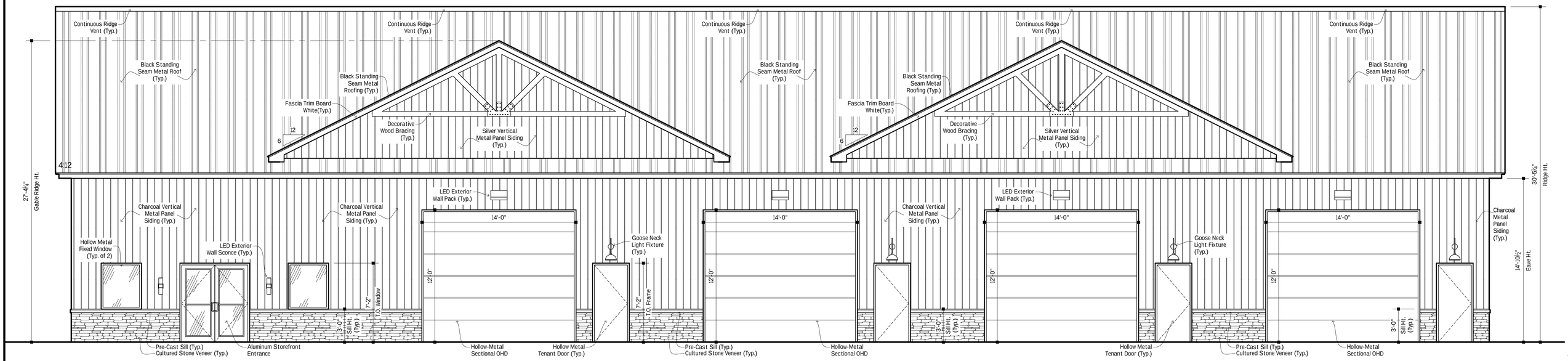
Proposed Tenant Garages For:

Stephens Plumbing

5500 Millersport Highway

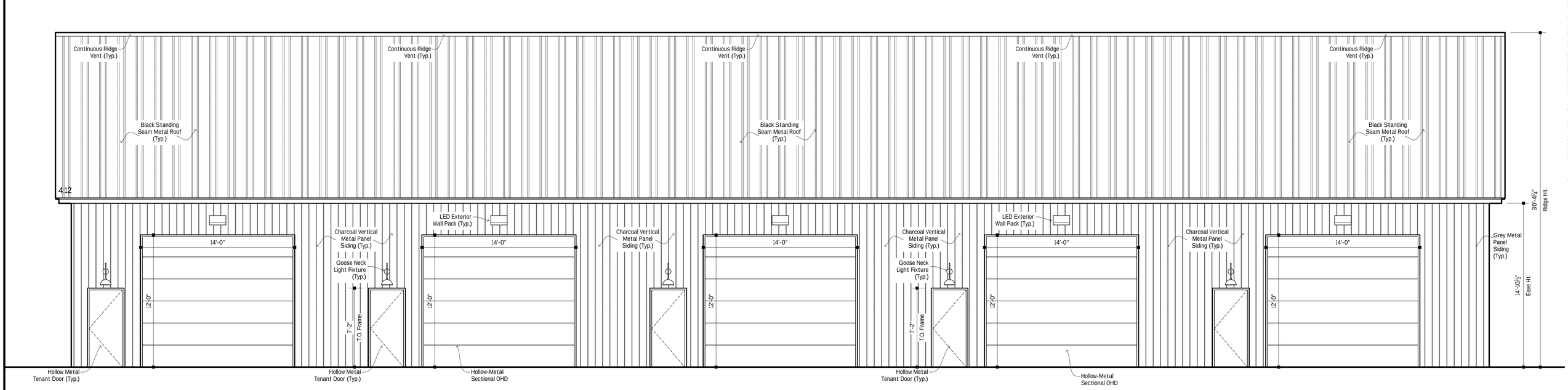
SUTTON architecture "Design 2 Build"

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



3.1 South Elevation (Millersport)

1/4" = 1'-0"



3.2 North Elevation

1/4" = 1'-0"

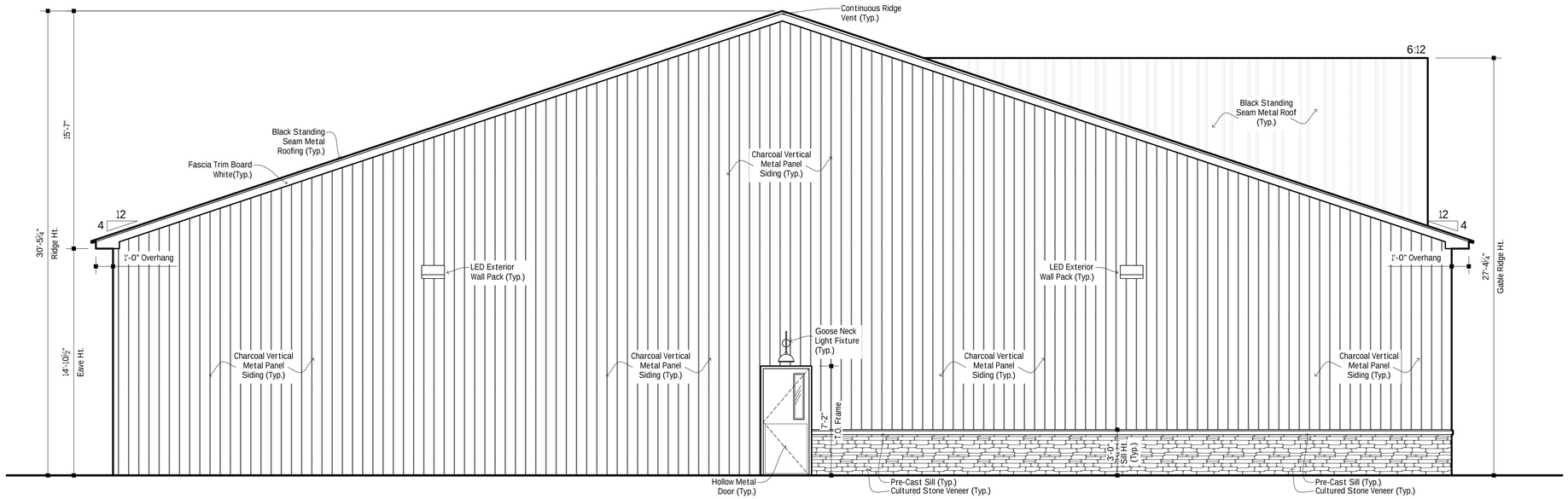
Proposed Tenant Garages For:

Stephens Plumbing

5500 Millersport Highway

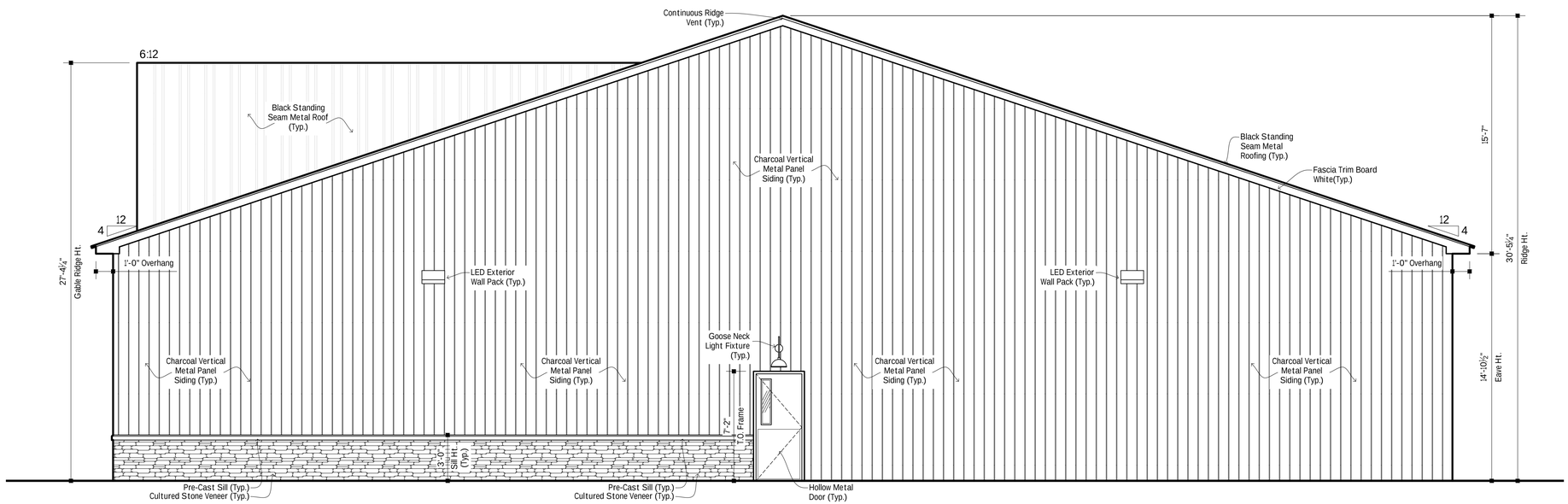
SUTTON architecture "Design 2 Build"

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



4.1 West Elevation

1/4" = 1'-0"



4.2 East Elevation

1/4" = 1'-0"

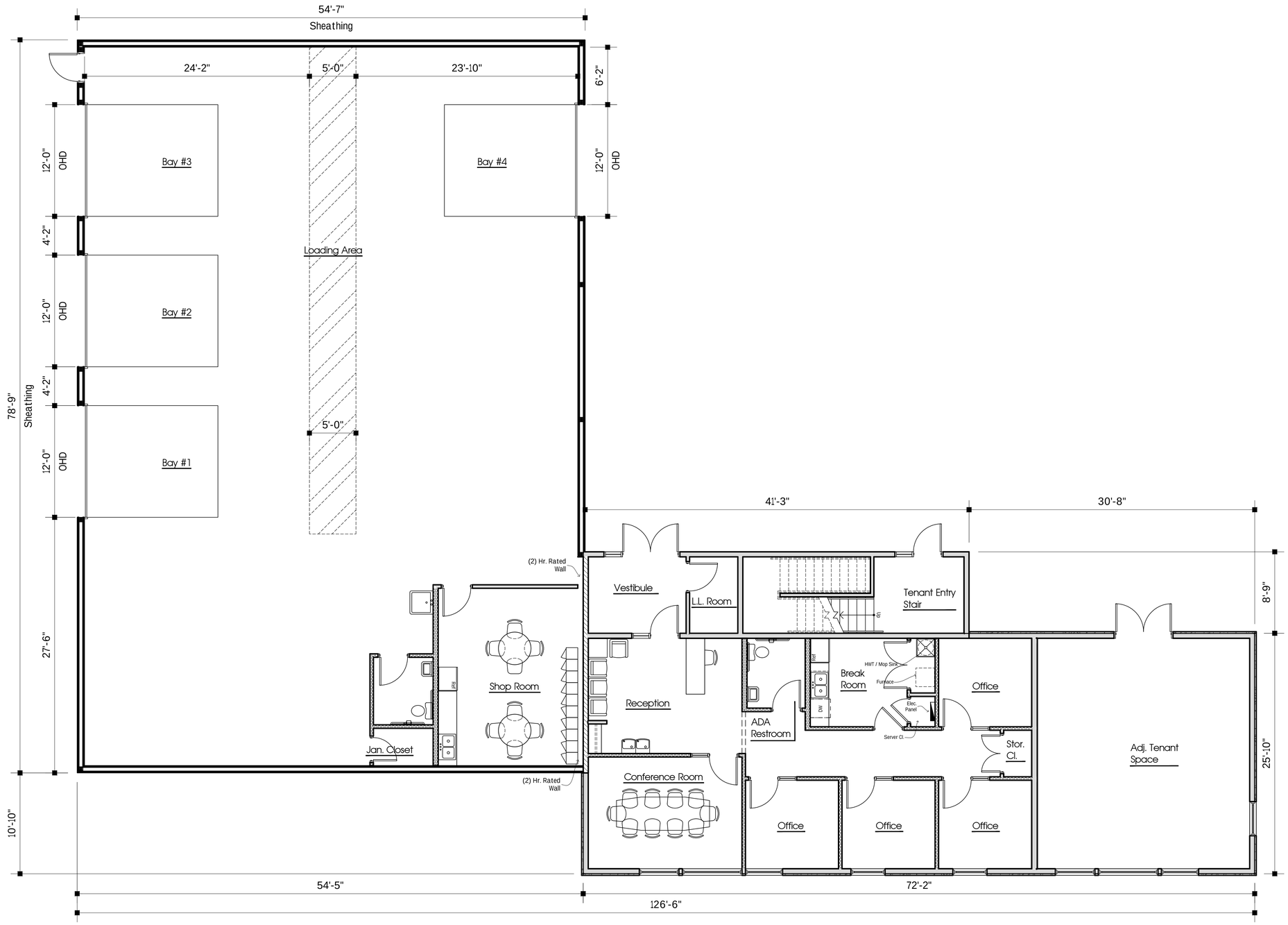
Proposed Tenant Garages For:

Stephens Plumbing

5500 Millersport Highway

SUTTON architecture "Design 2 Build"

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



Legend

- New Door
- 3 Ply 2x6 Post & Purlin Pole Barn Wall
- 2x6 Fire Rated Tenant Wall
- 2x6 Insulated Gyp. Wall
- 2x4 Insulated Gyp. Wall
- 2x4 Gyp. Wall
- 2x4 Gyp. Wall (1) Sided
- Window

5.1 Office / Warehouse Concept Plan

3/16" = 1'-0"

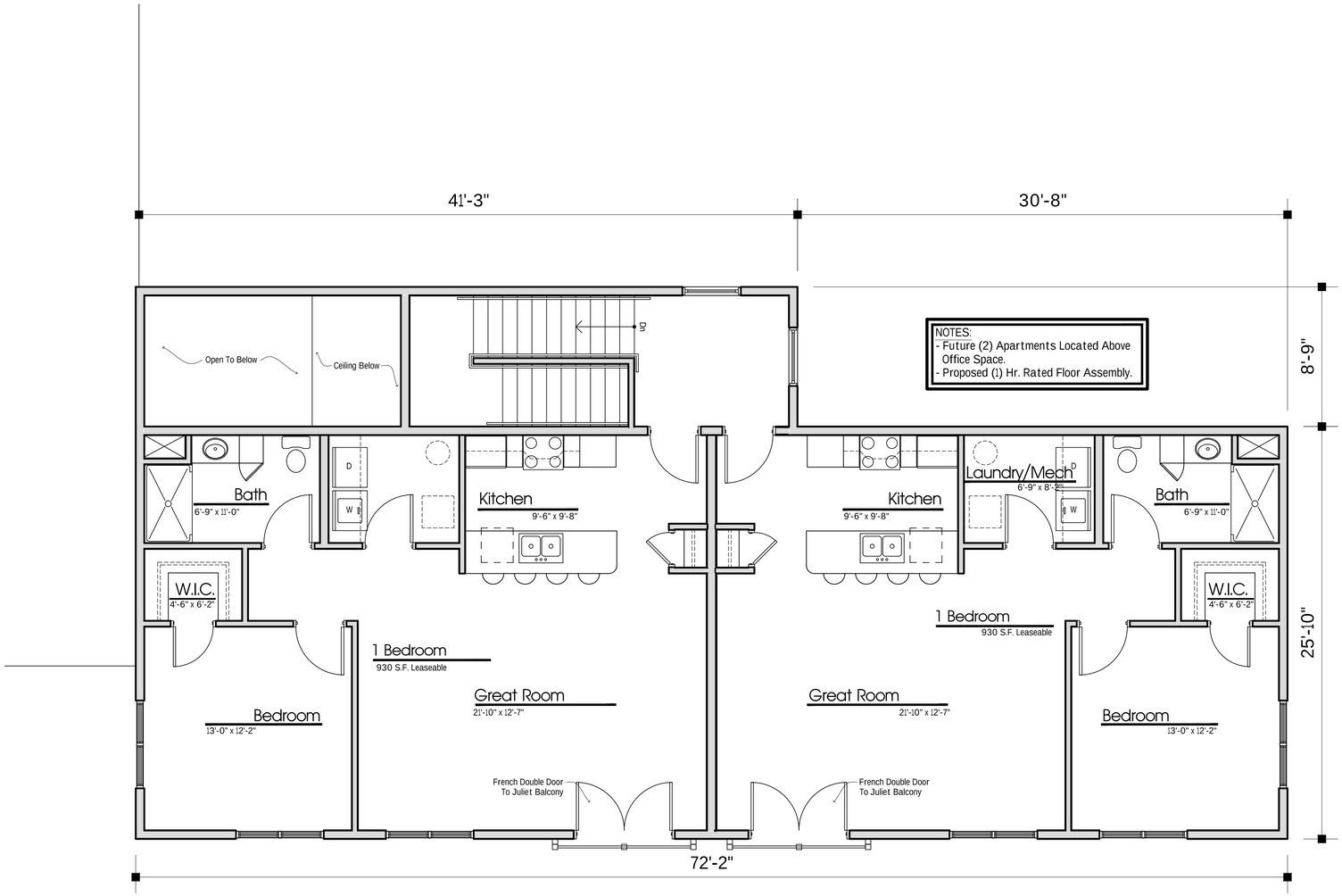
Proposed Office / Warehouse For:

Stephens Plumbing

5500 Millersport Highway

SUTTON architecture "Design 2 Build"

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



Legend

- New Door
- 3 Ply 2x6 Post & Purlin Pole Barn Wall
- 2x6 Fire Rated Tenant Wall
- 2x6 Insulated Gyp. Wall
- 2x4 Insulated Gyp. Wall
- 2x4 Gyp. Wall
- 2x4 Gyp. Wall (1) Sided
- Window

6.1 Second Floor Apartment's Concept Plan

1/4" = 1'-0"

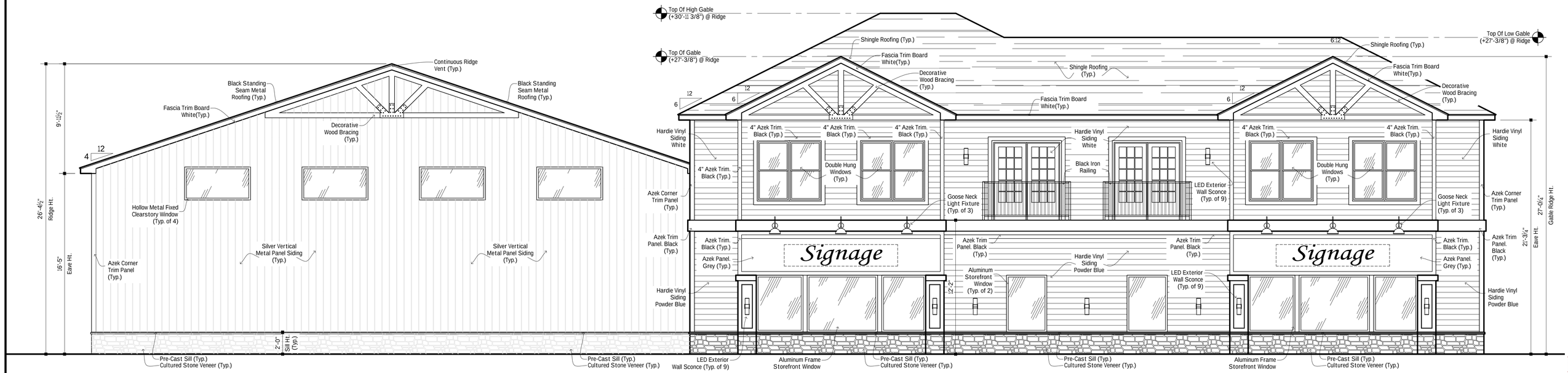
Proposed Second Floor Apartments For:

Stephens Plumbing

5500 Millersport Highway

SUTTON architecture "Design 2 Build"

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



7.1 South Elevation (Millersport)

1/4" = 1'-0"

7.2 North Elevation

1/4" = 1'-0"

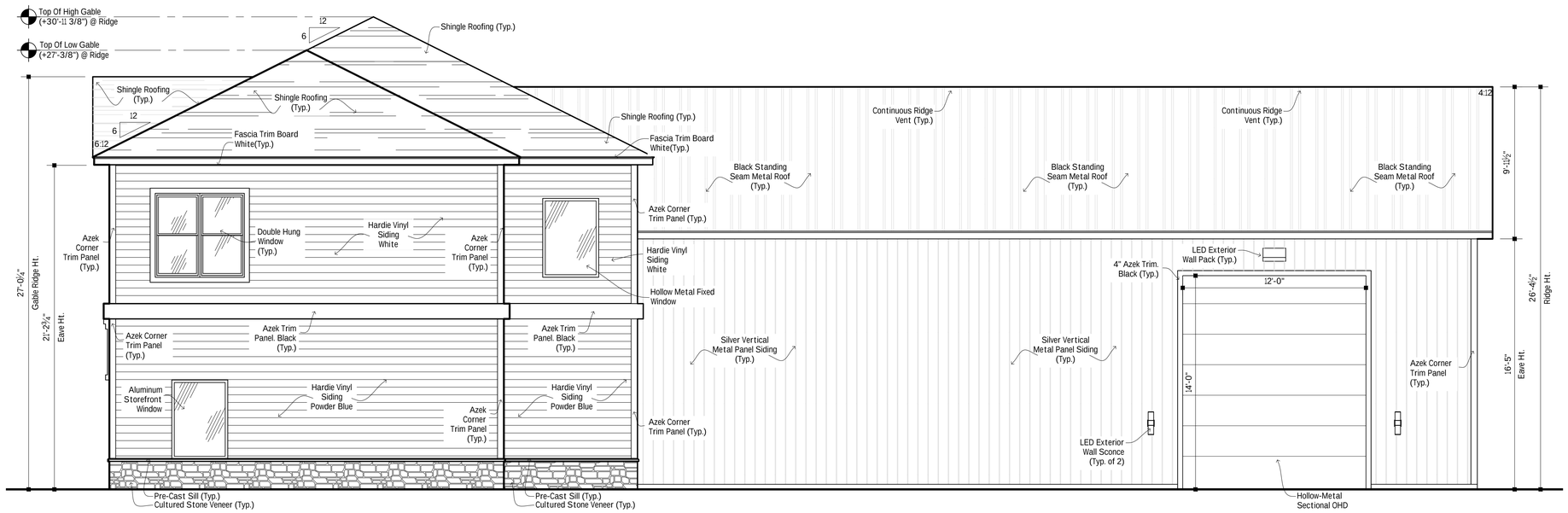
Proposed Office / Warehouse For:

Stephens Plumbing

5500 Millersport Highway

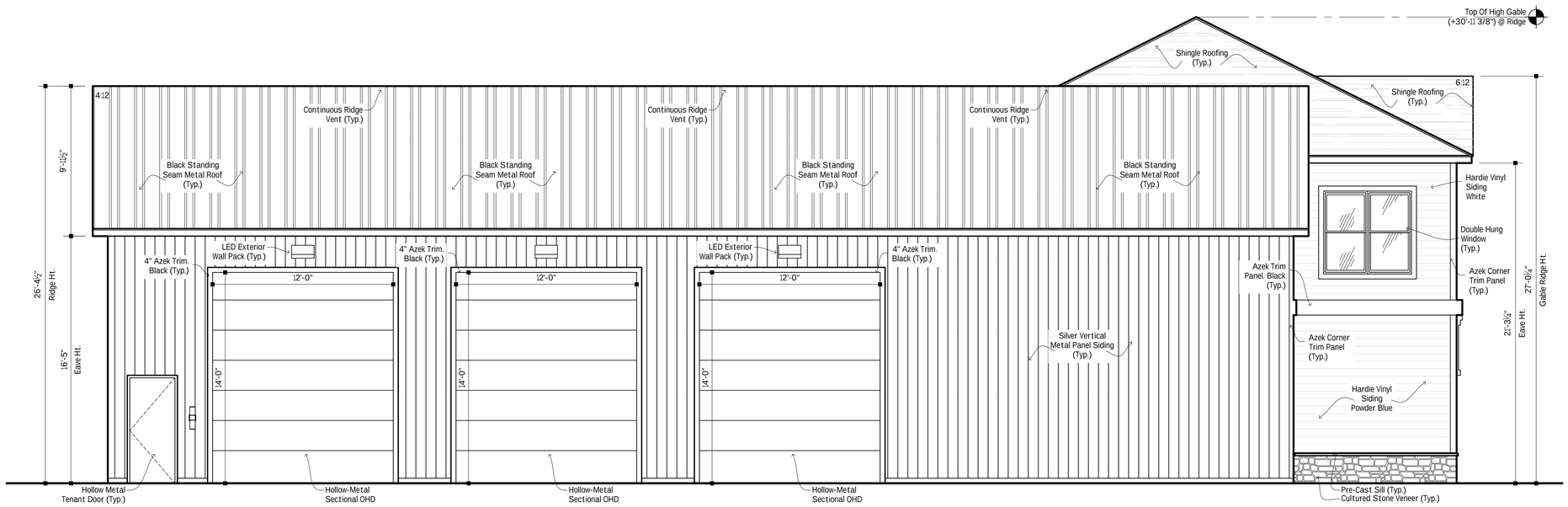
SUTTON architecture "Design 2 Build"

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)



4.1 West Elevation

1/4" = 1'-0"



4.2 East Elevation

1/4" = 1'-0"

Proposed Office / Warehouse For:

Stephens Plumbing

5500 Millersport Highway

SUTTON architecture "Design 2 Build"

Attachment: SP-2024-10 drawings 011625 (29733 : SP-2024-10, 5500 Millersport Highway)

TOWN OF AMHERST PLANNING DEPARTMENT

Application for Major Site Plan Review

For Official Use

File #: _____ **Acreage** _____ **Fee $** _____

Address Verified by Assessor's Office _____ VERIFIED BY DATE

Materials Received by Planning Department _____ RECEIVED BY DATE

Fee Paid to Town Clerk _____ RECEIVED BY DATE

Site Plan Review		**Fill In Applicable Fees**
1 acre or less	$1,250.00	_____
Each additional acre or fraction thereof	$ 650.00/acre	_____
Amendments to Site Plans	$1,200.00	_____
Request for Relief of / Change to Conditions of Site Plan Approval	$1,200.00	_____
Request for Extension of Site Plan Approval	$ 450.00	_____
Stormwater Pollution Prevention Plan		
1 - 4.99 Acres	$ 500.00	_____
5 - 10 Acres	$ 750.00	_____
>10 Acres	$1,000.00	_____
Affidavit Fee for Public Hearing	$ 15.00	_____
	TOTAL FEE:	**$**_____

To Be Completed By Applicant

Petitioner:

Name: Stephens Property Holdings, LLC

Address: 5500 Millersport Highway

East Amherst (city) NY (state) 14051 (zip code)

Phone: 716-512-9451 Fax: _____

E Mail: kjs@stephensplumbingny.com

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

MAJOR SITE PLAN APPLICATION (con't) ***Page 2***

Representative (Architect, Engineer, Landscape Architect, Surveyor, or Attorney)**:**

Name: Mike Berger, Sutton Architecture

Address: 5409 Main St

2nd Floor

Williamsville (city) NY (state) 14221 (zip code)

Phone: 716-932-7156 Fax: _____

E Mail: mikeb@design2build.com

Project Location (must be verified by Town Assessor's Office)**:**

Address: 5500 Millersport Highway

East Amherst, NY 14051

SBL No(s): 4.00-3-20

Project Name: 5500 Millersport Highway Proposed Warehouse Buildings

Project Description:

This project is a development of a 4.98 acre site located on the far north-west side of Millersport Hwy in the Town of Amherst. Construction will consist of two separate buildings: a 11,350 sf warehouse building and a 6,500 sf Mix-Use building, and will also include associated utility, lighting and landscaping improvements. Currently the site is developed with an existing building and gravel parking lo. The proposed site development area to be disturbed for this project is approximately 1.72 acres when construction is completed. The site is currently zoned as "Commercial Service" and will not be rezoned.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

MAJOR SITE PLAN APPLICATION (con't) ***Page 3***

If this petition is an amendment to a previously approved site plan, please describe the proposed changes (include type and size of existing structures and number of existing parking spaces):

	existing	proposed	total
Gross Floor Area (non-residential):	3,976	17,850	17,850
Gross Floor Area Residential:	0	2,200	2,200
Number of Residential Units:	0	2	2
x			
Number of Parking Spaces:	0	33	33

Acreage of Parcel: 4.98 acres

(list each parcel separately)

Frontage on Public Roads: 698.74 feet

(list each road separately)

Existing Zoning District(s) CS - COMMERCIAL SERVICE

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

For official use only:

_____
Approved/Date

X:\Current_Planning\Application Forms 2013 Working Doc\Major Site Plan\Site Plan Submittal Requirements and Checklist (3).doc

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Town of Amherst Planning Department 5583 Main Street Williamsville-NY-14221
(716) 631-7051- Fax: (716) 631-7153

TOWN OF AMHERST
State Environmental Quality Review
ENVIRONMENTAL ASSESSMENT FORM
-- ADDENDUM --

1. For each applicable category of proposed new structures, including additions to existing structures, provide the following information for all soil types on the project site (*according to Soil Survey of Erie County, NY; Table 11, Building Site Development, pp 294-305):*

Soil Name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Canandaigua silt loam	Severe: wetness	Severe: wetness,	Severe: wetness	Severe: wetness,	Severe: wetness,
		frost activity		frost activity	frost activity
Getzville silt loam	Severe: wetness	Severe: wetness,	Severe: wetness	Severe: wetness,	Severe: frost
	cutbanks cave	frost activity		frost activity	activity, wetness

2. Is your property located: On Youngs Road between Dodge and Klein Roads? □ Yes X No
   On Wehrle Dr. between Spindrift Dr. and Oakwood Rd? □ Yes X No

   If so, the property may be within an area of the Town that is affected by a moratorium on connections to the sanitary sewer system.

3. Are there alternative locations on the site for this project? □ Yes X No

4. Location and size of real property owned by petitioner within one (1) mile of subject proposal:
   N/A

5. Are you aware of current or future plans or intentions by others in the Town of Amherst to develop property within 1000± ft. of the present project request: □ Yes X No

   Describe_____

   (Potential environmental impacts from adjacent or nearby projects undergoing the approval process will receive a coordinated environmental review to determine cumulative effects on common receivers (e.g. traffic and drainage corridors) and other relevant environmental concerns.)

6. Maximum number of vehicular trips to be generated per peak hour upon completion of project 17 AM, 18 PM
   Source: ITE Trip Generation Manual

7. Will blasting occur during construction? □ Yes X No

8. Does the project propose to connect and be tributary to the public sanitary sewer system? □ Yes X No

9. Proposed net additional gallons per day (gpd) of sanitary sewer discharge upon completion of project:
   670 average flow 2,968 peak flow.

   (Average flows of 2,500 gpd or greater will require an Engineer's Report that includes a detailed downstream sewer capacity analysis and the identification of and commitment to required I/I offset work during peak wastewater flow conditions.)

10. Based on the Town's *2011 Reconnaissance Level Survey of Historic Resources,* is your property 'blue-rated' for historic significance? □ Yes X No

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information

Name of Action or Project:
Proposed Warehouse Buildings

Project Location (describe, and attach a location map):
5500 Millersport Highway, Amherst New York, 14051

Brief Description of Proposed Action:
This project is a development of a 4.98 acre site located on the far north-west side of Millersport Hwy in the Town of Amherst. Construction will consist of two separate buildings: a 11,350 sf warehouse building and a 6,500 sf Mix-Use building, and will also include associated utility, lighting and landscaping improvements. Currently the site is developed with an existing building and gravel parking lo. The proposed site development area to be disturbed for this project is approximately 1.72 acres when construction is completed. The site is currently zoned as "Commercial Service" and will not be rezoned.

Name of Applicant or Sponsor:	Telephone: 716-501-5741
Doug Feyes, PE Carmina Wood Design	E-Mail: cwood@carminawooddesign.com

Address:
80 Silo City Row, Suite 100

City/PO:	State:	Zip Code:
Buffalo	NY	14203

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: NYSDEC SPDES, Erie County DSM, ECWA	☐	☑

3. a. Total acreage of the site of the proposed action? 4.98 acres
   b. Total acreage to be physically disturbed? 1.72 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 4.98 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☑ Commercial ☑ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☑	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑

	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		
If Yes, identify: _____	☑	☐

	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation services available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☑	☐

	NO	YES
9. Does the proposed action meet or exceed the state energy code requirements?		
If the proposed action will exceed requirements, describe design features and technologies: _____ _____	☑	☐

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water: _____ _____	☐	☑

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment: _____ Septic Tank _____	☑	☐

	NO	YES
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	☑	☐
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☑	☐

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____		

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☑ Forest ☑ Agricultural/grasslands ☐ Early mid-successional

☑ Wetland ☐ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☑	☐
16. Is the project site located in the 100-year flood plan?	☐	☑
17. Will the proposed action create storm water discharge, either from point or non-point sources?	☐	☑
If Yes,		
a. Will storm water discharges flow to adjacent properties?	☑	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☐	☑
If Yes, briefly describe: Storm water runoff will be directed to an on site storm water management system consisting if Drainage Inlets, detention Basins and a pipe network.		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	☑	☐
If Yes, explain the purpose and size of the impoundment:		
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	☐	☑
If Yes, describe: There is a Septic tank system located on site		
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	☑	☐
If Yes, describe:		

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor/name: Doug Feyes, PE Date: 11/20/24

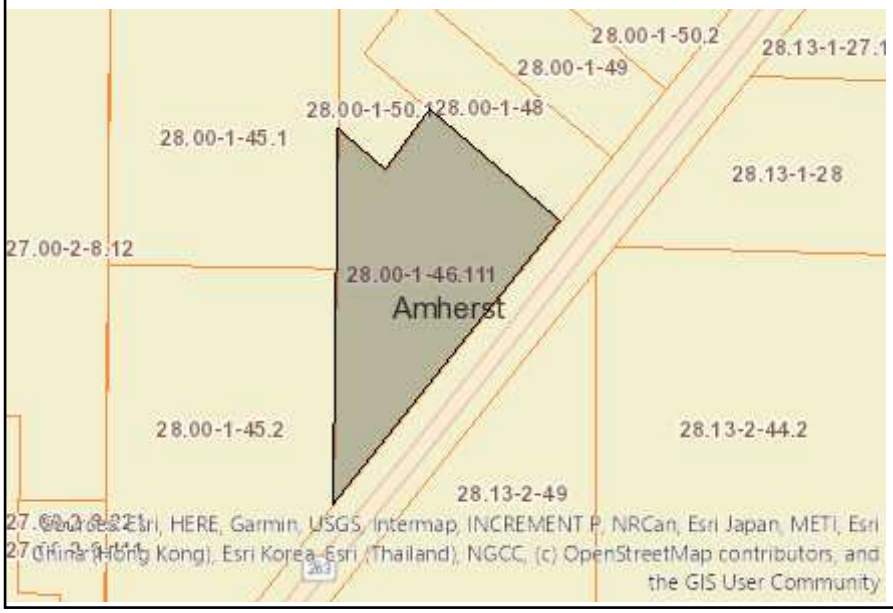
Signature: Title: Civil Engineer

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

PRINT FORM

EAF Mapper Summary Report

Monday, June 3, 2024 1:47 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	Yes
Part 1 / Question 20 [Remediation Site]	No

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Proposed Warehouse Building		
Project Location (describe, and attach a general location map): 5500 Millersport Highway, Amherst New York, 14051		
Brief Description of Proposed Action (include purpose or need): This project is a development of a 4.98 acre site located on the far north-west side of Millersport Hwy in the Town of Amherst. Construction will consist of a 14,110 sf warehouse building and will also include associated utility, lighting and landscaping improvements. Currently the site is developed with an existing building and gravel parking lot. The proposed site development area to be disturbed for this project is approximately 1.82 acres when construction is completed. The site is currently zoned as "Commercial Service" and will not be rezoned.		
Name of Applicant/Sponsor: Stephens Property Holdings, LLC c/o Doug Feyes, PE, Carmina Wood Design	Telephone: 716-501-5741 E-Mail: dfeyes@carminawooddesign.com	
Address: 80 Silo City Row, Suite 100		
City/PO: Buffalo	State: NY	Zip Code: 14203
Project Contact (if not same as sponsor; give name and title/role):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	Amherst Town Board	
b. City, Town or Village Planning Board or Commission ☐Yes ☐No	Town of Amherst	
c. City, Town or Village Zoning Board of Appeals ☐Yes ☐No	Amherst zoning board of appeals	
d. Other local agencies ☐Yes ☐No		
e. County agencies ☐Yes ☐No	ECWA, Erie County DSM	
f. Regional agencies ☐Yes ☐No		
g. State agencies ☐Yes ☐No	NYSDEC SPDES, NYSDOT	
h. Federal agencies ☐Yes ☐No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☑Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Commercial Service (CS)

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Williamsville Central School District

b. What police or other public protection forces serve the project site?
Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?
Amherst Fire Department

d. What parks serve the project site?
None

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Commercial

b. a. Total acreage of the site of the proposed action? 4.9 acres
b. Total acreage to be physically disturbed? 1.82 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 4.98 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

1.c

f. Does the project include new residential uses? ☐ Yes ☑ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑ Yes ☐ No

If Yes,

i. Total number of structures 1

ii. Dimensions (in feet) of largest proposed structure: 25' height; 80 width; and 176.4' length

iii. Approximate extent of building space to be heated or cooled: 14,110 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑ Yes ☐ No

If Yes,

i. Purpose of the impoundment: Storm-water Management

ii. If a water impoundment, the principal source of the water: ☑ Ground water ☐ Surface water streams ☐ Other specify:

iii. If other than water, identify the type of impounded/contained liquids and their source.

iv. Approximate size of the proposed impoundment. Volume: .073 million gallons; surface area: 0.18 acres

v. Dimensions of the proposed dam or impounding structure: 3.5' height; 125' length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

NA

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☑ Yes ☐ No

If Yes:

i .What is the purpose of the excavation or dredging? Excavation

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): 171
- Over what duration of time? 1.5 years

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

The materials is existing D-soils that are on-site and this material will be used to fill the site.

iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☑ No

If yes, describe.

v. What is the total area to be dredged or excavated? acres

vi. What is the maximum area to be worked at any one time? acres

vii. What would be the maximum depth of excavation or dredging? feet

viii. Will the excavation require blasting? ☐ Yes ☐ No

ix. Summarize site reclamation goals and plan:

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description):

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☐ No
If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐ No
If Yes:

- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use, or create a new demand for water? ☑ Yes ☐ No
If Yes:

i. Total anticipated water usage/demand per day: 450 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑ Yes ☐ No
If Yes:

- Name of district or service area: Erie County Water, Service area is Amherst
- Does the existing public water supply have capacity to serve the proposal? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No
- Do existing lines serve the project site? ☑ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☑ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☑ No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 450 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
Sanitary Wastewater

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐ Yes ☑ No
If Yes:

- Name of wastewater treatment plant to be used:
- Name of district:
- Does the existing wastewater treatment plant have capacity to serve the project? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No

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- Do existing sewer lines serve the project site? ☐Yes ☐
- Will a line extension within an existing district be necessary to serve the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐Yes ☑No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

Private septic tank, sand filter, and absorption mound located on site

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑Yes ☐No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or 0.1 acres (impervious surface)

_____ Square feet or 4.9 acres (parcel size)

ii. Describe types of new point sources. roadway, roof, parking lot

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

Storm water will discharge to the existing municipal storm water system following the on site storm water management area.

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐Yes ☐No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐Yes ☐No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐Yes ☑No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐Yes ☑No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐Yes ☐No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

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h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☑Yes ☐No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____
typical usage for a commercial development of this size

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):
National Grid

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☐No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7 am - 7 pm
- Saturday: 7 am - 7 pm
- Sunday: none
- Holidays: none

ii. During Operations:

- Monday - Friday: comm. 8am - 10 pm +/-
- Saturday: comm. 8am - 10 pm +/-
- Sunday: comm. 8am - 10 pm +/-
- Holidays: none

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m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

typical construction noise during hours in previous item

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe:

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

Parking lot lights, 20' high +/- directed downward, nearest occupied structure is approx. 20' away

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: 1 tons per week (unit of time)
- Operation : 1 tons per month (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: recycling at the discretion of the contractors
- Operation: will follow the Town recycling program

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: NYSDEC approved C&D landfill
- Operation: NYSDEC approved landfill

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s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

1.c

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☐ Commercial ☑ Residential (suburban) ☑ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.25	0.70	+0.45
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	1.81	1.36	-0.45
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	2.92	2.92	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____			

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c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No
If Yes,
i. Identify Facilities:

_____
_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No
If Yes:
i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

_____
_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No
If Yes:
i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____
_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____
_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No

☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____
☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

_____
_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____
_____

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v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? >5 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site:

Canandaigua Silt Loam	21.7 %
Getzville silt loam	78.3 %
	%

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils:
☐ Well Drained: _____ % of site
☐ Moderately Well Drained: _____ % of site
☑ Poorly Drained 100 % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____ % of site
☐ 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters Approximate Size 2.92 AC
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☑ Yes ☐ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

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m. Identify the predominant wildlife species that occupy or use the project site:
typical suburban wildlife

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation):
ii. Source(s) of description or evaluation:
iii. Extent of community/habitat:
- Currently: acres
- Following completion of project as proposed: acres
- Gain or loss (indicate + or -): acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☑ Yes ☐ No
If Yes:
i. Species and listing (endangered or threatened):
Northern Sunfish, Snuffbox

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☑ Yes ☐ No
If Yes:
i. Species and listing:
Redfin Shiner, Black Redhorse

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use:

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number:

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No
i. If Yes: acreage(s) on project site?
ii. Source(s) of soil rating(s):

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name:
ii. Basis for designation:
iii. Designating agency and date:

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e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Doug Feyes, PE Date 03.25.2025

Signature _____ Title Project Engineer

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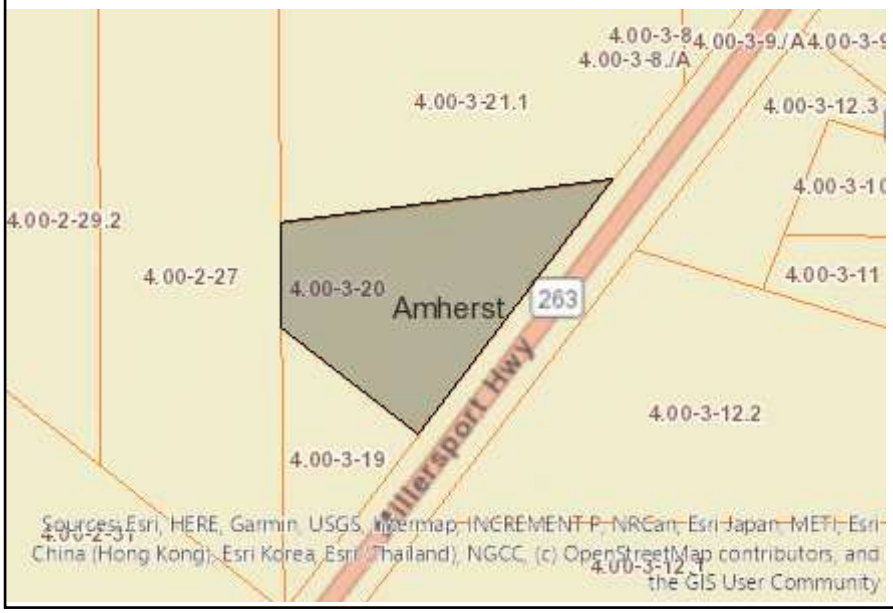
PRINT FORM

EAF Mapper Summary Report

Tuesday, June 4, 2024 10:59 AM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	Yes
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No

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E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Northern Sunfish, Snuffbox
E.2.p. [Rare Plants or Animals]	Yes
E.2.p. [Rare Plants or Animals - Name]	Redfin Shiner, Black Redhorse
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

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CARMINA WOOD
DESIGN

STORMWATER POLLUTION PREVENTION PLAN
for
CONSTRUCTION ACTIVITIES

At

Proposed Warehouses
5500 Millersport Hwy
Amherst, County of Erie, NY

Prepared for

Stephens Plumbing

Kevin Stephens
5500 Millersport Hwy
East Amherst, NY 14051

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

Telephone: (716) 842-3165
Fax: (716) 842-0263

November 2025
Revised July 2025



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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Appendix F Forms

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101 SCOPE

A. **PURPOSE:** Stephens Plumbing (SP) has placed an emphasis on following the New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Stormwater Discharges from Construction Activity governing storm water discharges during construction, and in accordance with erosion control practices. The Contractor's participation in this program is mandatory and its non-compliance is subject to various remedies, including without limitation, monetary set-offs, withholding payments; reimbursement for costs, expenses (including reasonable attorney's fees), fines and civil penalties incurred by SP; and/or liquidated damages. This section provides a descriptive explanation of SP's Storm Water Pollution Prevention Program and required Contractor participation.

The Engineer of record for this project certifies that this SWPPP meets the requirements and is in compliance with the New York State Stormwater Management Design Manual and latest NYSDEC Phase II stormwater regulation requirements.

B. **SPDES General Permit for Stormwater Discharges from Construction Activity:** Regulations promulgated by the NYSDEC to regulate the discharge of storm water from construction activities on sites where more than one (1) acre of soil is disturbed. One of the ways to comply with these regulations for affected sites is to request coverage under the General Permit for Construction Activities for New York State. In order to use the General Permit, a Notice of Intent (NOI) form must be completed and electronically submitted to the NYSDEC at least 5 business days prior to any earth-disturbing activities (this time frame may increase to 60 business days if a full review of the SWPPP is determined necessary by the NYSDEC) and a Storm Water Pollution Prevention Plan (SWPPP) for the site must be prepared and followed during the construction activities. Once a copy of the SPDES permit is received from NYSDEC, a copy will be included in Appendix F of this report.

Approval from a regulated, traditional land use control MS4:

1. An **owner or operator** of a construction activity that is <u>not</u> subject to the requirements of a regulated, traditional land use control MS4 must first develop a SWPPP in accordance with all applicable requirements of this permit and then submit a completed NOI form to the NYSDEC.

2. An **owner or operator** of a construction activity that is subject to the requirements of a regulated, traditional land use control MS4 must first develop a SWPPP in accordance with all applicable requirements of this permit and then have its SWPPP reviewed and accepted by the MS4 prior to submitting the NOI to the NYSDEC. The **owner or operator** shall have the "MS4 SWPPP Acceptance" form signed by the principal executive officer or ranking elected official from the regulated, traditional land use control MS4, or by a duly authorized representative of that person, and then submit that form along with the NOI to the address referenced under "Notice of Intent (NOI) Submittal".

C. **RESPONSIBILITIES OF THE CONTRACTOR:** The Contractor shall manage the discharge of storm water from the site in accordance with the NYSDEC General Permit for Construction Activities conditions and the following provisions of this section. The Operator shall be responsible for conducting the storm water management practices in accordance with the permit. The Contractor shall be responsible for providing **qualified inspector**s to conduct the inspections required by the SWPPP. The Contractor shall be responsible for any enforcement action taken or imposed by federal, state, or local agencies, including the cost of fines, construction delays, and remedial actions resulting from the Contractor's failure to comply with the permit provisions. It shall be the responsibility of the Contractor to make any changes to the SWPPP necessary when the Contractor or any of his subcontractors elects to use borrow or fill or material storage sites, either contiguous to or remote from the construction site, when such sites are

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used solely for this construction site. Such sites are considered to be part of the construction site covered by the permit and this SWPPP. Off-site borrow, fill, or material storage sites which are used for multiple construction projects are not subject to this requirement, unless specifically required by state or local jurisdictional entity regulations. The Contractor should consider this requirement in negotiating with earthwork subcontractors, since the choice of an off-site borrow, fill, or material storage site may impact their duty to implement, make changes to, and perform inspections required by the SWPPP for the site.

D. **NOTICE OF INTENT:** The Operator has petitioned the NYSDEC for coverage under the storm water discharges during construction at this site to be covered by the SPDES General Permit for Construction Activity for the State of New York. A Notice of Intent (NOI) for coverage under this permit has been filed by the Operator. The SWPPP must be prepared prior to submittal of the NOI form. The Operator will require the Contractor to be a co-permittee with the Operator. The Contractor will be required to post the NOI at the construction site along with any building permits.

E. **CONTRACTOR CERTIFICATION & TRAINING:** Proof of Training/Certification of the Contractor's designated individual shall be kept on site at all times.

F. **REQUIREMENTS FOR THE GENERAL CONTRACTOR AND SUBCONTRACTOR(S):** The General Contractor and Subcontractor(s) shall sign the "Contractor's Certification Statement" (located in the Appendix of this report) verifying they have been instructed on how to comply with and fully understand the requirements of the SPDES General Permit for Construction Activity for the State of New York and the SWPPP. These certifications must be signed, by a responsible corporate officer or other party meeting the "Signatory Requirements" of the SPDES General Permit, on behalf of each entity, prior to the beginning of any construction activities.

G. **STORM WATER POLLUTION PREVENTION PROGRAM LOCATION REQUIREMENTS:** The SWPPP is meant to be a working document that shall be maintained at the site of the Construction Activities at all times throughout the project, shall be readily available upon request by the Operator's personnel or NYSDEC or any other agency with regulatory authority over storm water issues, and shall be kept on-site until the site complies with the Final Stabilization section of this document. A sign or other notice must be posted near the main entrance of the construction site which contains a completed NOI, the location of the SWPPP and the name and phone number of a contact person responsible for scheduling SWPPP viewing times, and any other state specific requirements.

H. **INSPECTIONS AND RECORD-KEEPING:**

A. <u>General Construction Site Inspection and Maintenance Requirements</u>

1. The **owner or operator** must ensure that all erosion and sediment control practices and all post-construction stormwater management practices identified in the SWPPP are maintained in effective operating condition at all times.

2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York, or protect the public health and safety and/or the environment.

B. <u>Owner or operator Maintenance Inspection Requirements</u>

1. The **owner or operator** shall inspect, in accordance with the requirements in the most current version of the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, the erosion and sediment controls identified in the

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SWPPP to ensure that they are being maintained in effective operating condition at all times.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the **owner or operator** can stop conducting the maintenance inspections. The **owner or operator** shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of the General Permit as soon as soil disturbance activities resume.

3. For construction sites where soil disturbance activities have been shut down with partial project completion, the **owner or operator** can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. **Qualified inspector Inspection Requirements**

The **owner or operator** shall have a **qualified inspector** conduct site inspections in conformance with the following requirements:

Note: The **trained contractor** identified in Part III.A.6 of the General Permit **cannot** conduct the **qualified inspector** site inspections unless they meet the **qualified inspector** qualifications included in Appendix A of the General Permit. In order to perform these inspections, the trained contractor would have to be a:

- Licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- Registered Landscape Architect, or
- Someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity.

1. A **qualified inspector** shall conduct site inspections for all construction activities identified in Tables 1 and 2 of Appendix B of the General Permit, with the exception of:

   a. The construction of a single family residential subdivision with 25% or less impervious cover at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C of the General Permit and not directly discharging to one of the 303(d) segments listed in Appendix E of the General Permit;

   b. The construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E of the General Permit;

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c. Construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and

d. Construction activities located in the watersheds identified in Appendix D of the General Permit that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land.

2. Unless otherwise notified by the Department, the **qualified inspector** shall conduct site inspections in accordance with the following timetable:

a. For construction sites where soil disturbance activities are on-going, the **qualified inspector** shall conduct a site inspection at least once every seven (7) calendar days.

b. For construction sites where soil disturbance activities are on-going and the **owner or operator** has received authorization in accordance with Part II.C.3 of the General Permit to **disturb greater than five (5) acres** of soil at any one time, the **qualified inspector** shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

c. For construction sites where soil disturbance activities have been **temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas**, the **qualified inspector** shall conduct a site inspection at least once every thirty (30) calendar days. The **owner or operator** shall notify the Regional Office stormwater contact person (see contact information in Appendix F of the General Permit) or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the MS4 (provided the MS4 is not the **owner or operator** of the construction activity) in writing prior to reducing the frequency of inspections.

d. For construction sites where **soil disturbance activities have been shut down with partial project completion**, the **qualified inspector** can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The **owner or operator** shall notify the Regional Office stormwater contact person or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the MS4 (provided the MS4 is not the **owner or operator** of the construction activity). in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the **owner or operator** shall have the **qualified inspector** perform a final inspection and certify that all disturbed areas have achieved final stabilization, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The **owner or operator** shall then submit the completed NOT form to the address in Part II.A.1 of the General Permit.

3. At a minimum, the **qualified inspector** shall inspect all erosion and sediment control practices to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved final stabilization, all points of discharge to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site, and all points of discharge from the construction site.

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4. The **qualified inspector** shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

   a. Date and time of inspection;

   b. Name and title of person(s) performing inspection;

   c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;

   d. A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;

   e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody;

   f. Identification of all erosion and sediment control practices that need repair or maintenance;

   g. Identification of all erosion and sediment control practices that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;

   h. Description and sketch of areas that are disturbed at the time of the inspection and areas that have been stabilized (temporary and/or final) since the last inspection;

   i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;

   j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s); and

   k. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The **qualified inspector** shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The **qualified inspector** shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The **qualified inspector** shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

5. Within one business day of the completion of an inspection, the **qualified inspector** shall notify the **owner or operator** and appropriate contractor or subcontractor identified in Part III.A.6. of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.

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6. All inspection reports shall be signed by the **qualified inspector**. Pursuant to Part II.C.2 of the General Permit, the inspection reports shall be maintained on site with the SWPPP.

Record Retention - The **owner or operator** shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the site achieves final stabilization. This period may be extended by the Department, in its sole discretion, at any time upon written notification.

I. **SWPPP MODIFICATIONS:** The inspection report should also identify if any revisions to the SWPPP are warranted due to unexpected conditions. The SWPPP is meant to be a dynamic working guide that is to be kept current and amended whenever there is a change in design, construction, operation, or maintenance at the construction site that has or could have a significant effect on the discharge of pollutants or when the plan proves to be ineffective in eliminating or significantly minimizing pollutant discharges. The Contractor's failure to modify or report deficiencies to the Operator will result in the Contractor being liable for fines and construction delays resulting from any federal, state, or local agency enforcement action.

J. **FINAL STABILIZATION AND TERMINATION OF PERMIT COVERAGE:** A site can be considered finally stabilized when all soil disturbing activities have been completed and a uniform perennial vegetative cover with a density of **85%** for the unpaved areas and areas not covered by permanent structures has been established or equivalent permanent stabilization measures have been established and the facility no longer discharges storm water associated with construction activities and a Notice of Termination (NOT) form filed by the Operator(s) with the NYSDEC. The Operator's Project Manager must complete the NOT. The NOT must be signed by the signatory (or equivalent position) on the NOI and subsequently submitted to the appropriate agency. The Operator's Project Manager must provide a completed copy of the NOT to the Contractor for inclusion in the SWPPP, which will then be optically scanned into the final SWPPP document as required. This filing terminates coverage under the General Permit and terminates the Contractor's responsibility to implement the SWPPP, but the requirements of the SWPPP, including periodic inspections, must be continued until the NOT is filed. The **owner or operator** shall also have the **qualified inspector** perform a final site inspection prior to submitting the NOT to the Department. Once the project is stabilized, level 1 inspection for the stormwater management practices shall be performed and signed off by a professional engineer. The report shall be submitted to the Town's stormwater management officer along with the NOT form. Final payment and/or the release of retainage will be withheld until all provisions of the SWPPP have been submitted, completed and accepted by the Operator.

102 PROJECT NAME AND LOCATION

Proposed Warehouse Buildings

5500 Millersport Hwy

Town of Amherst, County of Erie, New York

Easting: 198716

Northing: 4776371

Estimated Area of Site ≈ 4.98 acres

Estimated Area to be disturbed by Construction Activities ≈ 1.82 acres

A general location map is included as Appendix A.

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103 OPERATOR'S NAME AND ADDRESS

Stephens Property Holdings, LLC

5500 Millersport Hwy

East Amherst, NY 14501

Contact Person: Kevin Stephens

Telephone: 716-512-9451

104 PROJECT DESCRIPTION

This project is a development of a 4.98 acre site located on the far north-west side of Millersport Hwy in the Town of Amherst. Construction will consist of a 14,110 sf warehouse building and will also include associated utility, lighting and landscaping improvements. Currently the site is developed with an existing building and gravel parking lot. The proposed site development area to be disturbed for this project is approximately 1.82 acres when construction is completed. The site is currently zoned as "Commercial Service" and will not be rezoned.

Soil disturbing activities will include:

A. Construction of temporary construction exit points

B. Clearing & grubbing of the site within disturbance limits

C. Installation of the detention basin & bioretention areas including topsoil & seed

D. Installation of storm sewer pipes and inlets

E. Construction of utilities

F. Construction of curb and parking lot

G. Final grading & landscaping

H. Construction of buildings

This project is owned by Stephens Plumbing and will be developed by the same. The work area consists of approximately 1.72 acres for which erosion and sediment controls have been developed and fully addressed in this written plan and the Erosion and Sediment Control Plans. See the construction documents for additional details.

105 RUNOFF COEFFICIENT, SOILS, AND RAINFALL INFORMATION

The initial runoff curve number for the pre-construction site is "CN" = 83. The post-construction runoff curve number for the site will be "CN" = 86. The site is 4.98 acres of which approximately 1.82 acres will be disturbed by construction activities.

See soils information located in Appendix I.

The site is in Erie County, which receives an average of approximately 45 inches rainfall annually with the highest amounts of rainfall received in the months of May thru September. Annual snow for this area is approximately 90 inches.

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106 WATERS

The runoff generated from this site will discharge to an existing ditch on the north property line which drainage ditch along Millersport Hwy.

107 INDIAN COUNTRY LANDS

This project is not located on Indian Lands.

108 ENDANGERED AND THREATENED SPECIES

No endangered or threatened species have been determined to be on the site.

109 CRITICAL HABITAT

See section 108 above.

110 HISTORIC PLACES

The assessed property is not shown on the NYSHPO map as an archeologically sensitive area. A review by NYSHPO was conducted, a copy of their review and clearance letter is included in Appendix M of this report.

111 WETLANDS AND/OR OTHER SURFACE WATERS

2.92 acres of isolated Federal jurisdictional wetlands were delineated on site and will not be disturbed for construction activity. The wetlands report can be found in Appendix L of this report.

112 EROSION AND SEDIMENT CONTROLS

112.1 STABILIZATION PRACTICES

Stabilization practices for this site include:

A. Land clearing activities shall be done only in areas where earthwork will be performed and shall progress as earthwork is needed.

B. Use of stabilization method for all slopes having a slope greater than 1V:3H.

C. Permanent seeding and planting of all unpaved areas using the hydromulching grass seeding technique.

D. Mulching exposed areas.

E. Vegetation preservation in undisturbed areas.

F. Frequent watering to minimize wind erosion during construction.

a. **For sites where 5 acres or more are disturbed at any one time**: In areas where soil disturbance activity has been temporarily or permanently ceased, temporary and/or permanent soil stabilization measures shall be installed and/or implemented within seven (7) days from the date the soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the most current version of the New York Standards and Specifications for Erosion and Sediment Control.

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b. The **owner or operator** shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.

c. The **owner or operator** shall install any additional measures needed to protect water quality.

112.2 STRUCTURAL PRACTICES

Structural practices for this site include:

A. Inlet protection using a method detailed in the Construction Documents.

B. Perimeter protection using temporary silt fence/silt sock or silt sock.

C. Outlet protection using rip-rap stone and end sections.

D. Stabilized Construction Entrance.

E. Temporary stone wash off areas.

F. Storm sewer, curb/gutter.

G. Sediment traps and basins.

112.3 SEQUENCE OF MAJOR ACTIVITIES

The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the Contractor. The order of activities will be as follows:

A. Construct temporary construction exits at locations shown on the Demolition & Erosion Control Plan Sheet.

B. Install perimeter silt fence/silt socks/silt sock in the locations shown on the Demolition & Erosion Control Plan Sheet.

C. Clear & Grub site.

D. Installation of detention basin to act as sediment basins (do not install bioretention soil or underdrains until stabilized)

E. Commence site grading.

F. Disturbed areas of the site where construction activity has ceased for more than 14 days shall be temporarily seeded and watered.

G. Construction of buildings

H. Installation of proposed utilities

I. Finalize pavement subgrade preparation.

J. Construct all curb, drainage inlets, storm sewer pipes and storm sewer manholes, as shown on the plans. Install temporary inlet protection at the locations of all inlets.

K. Dust control.

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L. Remove inlet protection around inlets and manholes no more than 48 hours prior to placing stabilized base course.

M. Install base material as required for pavement.

N. Carry out final grading and seeding and planting.

O. Clean storm system following construction, clean detention basins of any silt and return to design grades.

P. Remove silt fencing/silt sock only after all paving is complete and exposed surfaces are stabilized.

Q. Remove temporary construction exits only prior to pavement construction in these areas.

Note: Sediment control storage during construction (traps & basins) during construction shall be 134 cy per acre of disturbance per NYSDEC requirements.

112.4 STORM WATER MANAGEMENT

The existing site currently sheet drains in multiple directions, either north to existing onsite drainage ditch on the north Property line or southeast towards the existing drainage ditch along Millersport Hwy. Ultimately all on site stormwater runoff flows into the Town of Amherst stormwater sewer along the southeast side of Millersport Hwy.

Stormwater runoff collected onsite as a result of the proposed development will be routed through the proposed storm sewer system consisting of a bioretention areas and a mircopool extended detention pond connected by a series of catch basins and smooth interior HDPE stormwater pipe. The bioretention area on site are designed to provide 100% of the required runoff reduction volume (RRv) and most of the water quality treatment (WQv) based on the contributing area of 0.64 acres. The remainder of water quality treatment will be provided by the micropool extended detention pond for the 1.10 tributary area (see below). The soils in the vicinity of the bioretention areas are mainly USDA hydrologic group 'D' and therefore the system will be installed with underdrains per NYSDEC requirements. The bioretention areas will consist of 8" perforated HDPE underdrains in 12" of drainage gravel, followed by filter fabric and then finally 18" minimum of planting soil. Overflow yard drains will be installed to allow 6" maximum ponding for RRv treatment. Stormwater detention is required per NYSDEC standards and specifications. A 12" outlet control pipe will be provided within the basin to attenuate proposed runoff to required existing conditions prior to discharge off site. Discharge from the detention pond will outlet to an existing Town of Amherst stormwater ditch along the north property line.

Runoff reduction volume (RRv), water quality volume (WQv) and stormwater volume attenuation for the site is designed in accordance with Chapter 4 of the NYSDEC Stormwater design manual. The bioretention areas are provided as a "green infrastructure" practice to provide runoff reduction and a portion of water quality treatment, and the remainder of WQv will be provided in the micropool extended detention basin to meet the Chapter 4 requirements for the currently undeveloped areas. Runoff from the site was looked at as a whole for the calculation of volume attenuation requirements. The existing site has a pre-development total of 0.25 acres of impervious cover. The amount of impervious cover post-development is 0.89 acres, an increase of 0.64 acres in impervious area on site. The proposed dry detention pond is designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates, as well as the below stated Town stormwater runoff requirements.

The NYSDEC Stormwater Management Design Manual requires a five-step process for Stormwater Management Planning as outlined in Chapter 3. The five steps include:

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1. Site planning to preserve natural features and reduce impervious cover.

    - 3.28 acres of existing vegetation within the existing wetlands will remain and be protected.

2. Calculation of Water Quality Volume (WQv=RRv) for site.

    - See Stormwater Drainage Calculations.

3. Incorporation of Green Infrastructure techniques and standard SMPs with Runoff Reduction Volume (RRv) capacity.

    - Bioretention areas were incorporated into the site design to provide required RRv for the development. See Stormwater Drainage Calculations.

4. Use of standard SMPs where applicable, to treat the portion of water quality volume not addressed by green infrastructure techniques and standard SMPs with RRv capacity.

    - A standard SMPs has been used to treat the remaining WQv is not applicable.

5. Design of volume and peak rate control practices where required.

    - See Stormwater Drainage Calculations.

The NYSDEC Stormwater Management Design Manual requires (5) five different criteria be considered when designing a stormwater management system. Those criteria are Water Quality, Runoff Reduction Volume, Channel Protection, Overbank Flooding and Extreme Storm Protection. Below is a summary of each item and how it is incorporated into this project.

Water Quality & Runoff Reduction Volume:

The NYSDEC requires reduction of the total water quality volume by green infrastructure techniques and SMP's to replicate pre-development hydrology. Bioretention and Micropool Extended basin areas were incorporated into the site layout to provide the required RRv for contributing WQv runoff area for the development. The bioretention area will provide 960 cf RRv. The minimum RRv required is 483 cf. The bioretention area will treat 1,018 cf of WQv and the Micropool extended Detention Basin will also treat 509 cf of the WQV . The required WQv = 2,487 cf. The sum of the WQv treated and the RRv is equal to the required WQv, therefore the practice is acceptable.

Channel Protection:

The NYSDEC requires that 24-Hour extended detention be provided for the proposed 1-year storm event. A volume of 2,838 cf is accommodated in the detention basin at elevation 582.89.

Overbank Flooding:

The NYSDEC requires that the 10-year proposed storm event be attenuated with detention and that the outlet be restricted to the 10-year existing storm event. A volume of 5,515 cf is accommodated in the detention basin at elevation 583.47.

Extreme Storm Protection:

The NYSDEC requires that the 100-year proposed storm event be attenuated with detention and that the outlet be restricted to the 100-year existing storm event. A volume of 8,637 cf is accommodated in the detention basin at elevation 584.09.

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Refer to the engineer's report for storm sewer design criteria, runoff summary tables and stormwater drainage calculations.

113 OTHER CONTROLS

113.1 OFF-SITE VEHICLE TRACKING

A stabilized construction exit will be provided to help reduce vehicle tracking of sediments. Existing paved areas will remain as long as possible and will be used for vehicle wash areas and to further aid in the reduction of vehicle tracking of sediments. The paved streets adjacent to the site entrance shall be inspected daily and swept as necessary to remove any excess mud, dirt, or rock tracked from the site. Dump trucks hauling material to/from the construction site will be covered with a tarpaulin. The job site superintendent will be responsible for seeing that these procedures are followed.

113.2 EXCAVATION SPOIL MATERIALS

Excavation spoil materials are generated during the excavation of the development's building and utilities installation. These materials must be properly managed to prevent them from contributing to storm water discharges. The materials generated from the development of this project will be hauled off-site or stockpiled for re-use in designated areas which will have temporary erosion & sediment control measures installed. Any removal from site will be done under the necessary permits required by the local governing agencies.

113.3 DUST CONTROL

Minimizing wind erosion and controlling dust will be accomplished by one or more of the following methods:

A. Frequent watering of excavation and fill areas.

B. Providing gravel or paving at entrance/exit drives, parking areas and transit paths.

113.4 WASTE DISPOSAL

If needed, all waste materials will be collected and stored in securely lidded metal dumpsters rented from an approved waste management company. The dumpster will comply with all local and state solid waste management regulations.

All trash and construction debris from the site will be deposited in the dumpsters. The dumpsters will be emptied when full and then hauled to a NYSDEC approved landfill for proper disposal. No construction waste will be buried on-site. All personnel will be instructed regarding the correct procedures for waste disposal.

113.5 SANITARY WASTE

If needed, portable toilet units or field offices with toilet facilities connected to the municipal sanitary sewer will be used for sanitary purposes. All portable toilet units will be emptied a minimum of once per week by a licensed portable facility provided in compliance with local and state regulations.

113.6 CONCRETE WASTE FROM CONCRETE TRUCKS

A. Emptying of excess unhardened concrete and/or washout from concrete delivery trucks will be allowed on the job site, but in either (1) specifically designated diked areas which have been prepared to prevent contact between concrete and/or washout and storm water which will be

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discharged from the site or (2) in locations where waste concrete will be poured into forms to make rip-rap or other useful concrete products.

B. Hardened waste concrete from the designated diked areas described above will be disposed of in accordance with applicable local and state regulations with regards to disposal of construction debris.

113.7 HAZARDOUS SUBSTANCES & HAZARDOUS WASTE

A. All hazardous waste materials will be disposed of by the Contractor in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. Site personnel will be instructed in these practices by the job superintendent, who will also be responsible for seeing these practices are followed. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such products are stored and/or used and another copy of each MSDS will be maintained in the SWPPP file at the job site construction office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

B. The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this SWPPP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials of hazardous wastes will be allowed to come in contact with storm water discharges. If such contact occurs, the storm water discharge shall be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job superintendent to properly train all personnel in the use of the SPCC plan.

C. Any spills of hazardous materials which are in excess of the Reportable Quantities as defined by the EPA regulations shall be immediately reported to the EPA National Response Center at 1-100-424-1102. From SWPPP-9 "Reportable Quantity Release Form" must be filled out.

D. In order to minimize the potential for a spill of hazardous materials to come in contact with storm water, the following steps will be implemented:

1. All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, cleaning solvents, additives for soil stabilization, concrete curing compounds and additives, etc.) will be stored in a secure location, under cover, when not in use.

2. The minimum practical quantity of all such materials will be kept on the job site.

3. A spill control and containment kit (containing for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.

4. All of the product in a container will be used before the container is disposed of. All such containers will be triple rinsed with water prior to disposal. The rinse water used in these containers will be disposed of in a manner in compliance with state and federal regulations and will not be allowed to mix with storm water discharges.

5. All products will be stored in and used from the original container with the original product label.

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6. All products will be used in strict compliance with instructions on the product label.

7. The disposal of excess or used products will be in strict compliance with instructions on the product label.

113.8 CONTAMINATED SOILS

A. Any contaminated soils (resulting from spills of materials with hazardous properties) which may result from construction activities will be contained and cleaned up immediately in accordance with the procedures given in the Spill Prevention Control and Countermeasures (SPCC) Plan and in accordance with applicable state and federal regulations.

B. The job site superintendent will be responsible for seeing that these procedures are followed.

114 COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

The Contractor will obtain copies of any and all local and state regulations which are applicable to storm water management, erosion control, and pollution minimization at this job site and will comply fully with such regulations. The Contractor will submit written evidence of such compliance if requested by the Operator or any agent of a regulatory body. The Contractor will comply with all conditions of the SPDES General Permit for Construction Activity for the State of New York, including the conditions related to maintaining the SWPPP and evidence of compliance with the SWPPP at the job site and allowing regulatory personnel access to the job site and to records in order to determine compliance.

The SWPPP for this site development project requires regulated MS4 approval from the Town of Amherst. All changes to the SWPPP must be approved by the Town of Amherst prior to applying changes to the SWPPP in the field.

115 INSPECTION AND MAINTENANCE PROCEDURES

The following inspection and maintenance practices will be used to maintain erosion and sediment controls and stabilization measures.

1. All control measures will be inspected by the owner/operator at least weekly and shall continue until the site complies with the Final Stabilization section of this document (See Section 116).

2. All control measures will be inspected by a Qualified Professional at least weekly and shall continue until the site complies with the Final Stabilization section of this document (See Section 116).

3. All measures will be maintained in good working order; if repairs or other measures are found to be necessary, they will be initiated within 24 hours of report.

4. Built up sediment will be removed from silt fence/silt sock when it has reached one-third the height of the fence.

5. Silt fence/silt socks will be inspected for depth of sediment, tears, etc., to see if the fabric is securely attached to the fence posts, and to see that the fence posts are securely in the ground.

6. Temporary and permanent seeding and all other stabilization measures will be inspected for bare spots, washouts, and healthy growth.

7. A maintenance inspection report will be made after each inspection. Copies of the report forms to be completed by the inspector are included in this SWPPP.

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8. The job site superintendent will be responsible for selecting and training the individuals who will be responsible for these inspections, maintenance and repair activities, and filling out inspection and maintenance reports.

9. Personnel selected for the inspection and maintenance responsibilities will receive training from the job site superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls that are used onsite in good working order. They will also be trained in the completion of, initiation of actions required by, and the filing of the inspection forms. Documentation of this personnel training will be kept on site with the SWPPP.

10. Disturbed areas and materials storage areas will be inspected for evidence of or potential for pollutants entering stormwater systems.

11. Report to the NYSDEC within 24 hours any noncompliance with the SWPPP that will endanger public health or the environment. Follow up with a written report within 5 days of the noncompliance event. The following events require 24 hour reporting: a) any unanticipated bypass which exceeds any effluent limitation in the permit, b) any upset which exceeds any effluent limitation in the permit, and c) a violation of a maximum daily discharge limitation for any of the pollutants listed by the NYSDEC in the permit to be reported within 24 hours. The written submission must contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the non-compliance.

12. Releases of hazardous substances or oil in excess of reportable quantities (as established under 40 CFR 110, 40 CFR 117 or 40 CFR 302) must be reported.

Upon completion of construction, the property owner is responsible for ensuring that the stormwater facilities are regularly inspected and maintained. Maintenance and inspection procedures are as follows.

1. On a quarterly basis and following significant rainfall events or snow-melts, perform the following:

    - Inspect catch basins, storm manholes, treatment structures, storm piping and stormwater pond for debris and accumulation of sediment.
    - Remove and properly dispose of any collected debris and sediment in accordance with applicable state, federal and local regulations.
    - Flush piping with water if necessary to remove accumulated sediment.
    - Bioretention areas shall be maintained per the NYSDEC Maintenance and Management Checklist included in this SWPPP.
    - Check all stone outfall structures for erosion and re-stone if necessary to prevent further erosion.
    - Inspect grassed/landscaped areas for un-vegetated areas or areas with less than 85% healthy stand of grass and reseed and mulch as necessary. Water daily if reseeded in July and August.
    - A record of all inspections should be kept.

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2. Maintain all lawn areas by regular mowing, including the grassed slopes of the stormwater pond and any grass swales. Any eroded areas shall be regarded, seeded and mulched immediately.

116 INSPECTION AND MAINTENANCE REPORT FORMS

Once installation of any required or optional erosion control device or measure has been implemented, inspections shall be performed by a Qualified Professional at least once every seven (7) calendar days. For construction sites where soil disturbance activities are on-going and the **owner or operator** has received authorization in accordance with Part II.C.3 of the General Permit to disturb greater than five (5) acres of soil at any one time, the **qualified inspector** shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days. The owner and contractor shall obtain from the MS4 an approval for disturbing more than five-acres at any given time. For construction sites where active construction has been suspended, inspection frequency under the general permit can be reduced to once every 30 days, provided temporary stabilization measures have been applied to all disturbed areas. The forms found in this SWPPP shall be used by the inspectors to inventory and report the condition of each measure to assist in maintaining the erosion and sediment control measures in good working order.

These report forms shall become an integral part of the SWPPP and shall be made readily accessible to governmental inspection officials, the Operator's Engineer, and the Operator for review upon request during visits to the project site. In addition, copies of the reports shall be provided to any of these persons, upon request, via mail or facsimile transmission. Inspection and maintenance report forms are to be maintained by the permittee for five years following the final stabilization of the site.

117 OTHER RECORD-KEEPING REQUIREMENTS

The Contractor shall keep the following records related to construction activities at the site:

- Dates when major grading activities occur and the areas which were graded
- Dates and details concerning the installation of structural controls
- Dates when construction activities cease in an area
- Dates when an areas is stabilized, either temporarily or permanently
- Dates of rainfall and the amount of rainfall
- Dates and descriptions of the character and amount of any spills of hazardous materials
- Records of reports filed with regulatory agencies if reportable quantities of hazardous materials spilled

118 SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN

118.1 MATERIALS COVERED

The following materials or substances are expected to be present onsite during construction:

- Concrete/Additives/Wastes
- Cleaning solvents
- Sanitary wastes
- Detergents
- Petroleum based products
- Paints/Solvents
- Pesticides

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- Solid and construction wastes
- Acids
- Fertilizers
- Soil stabilization additives

118.2 MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff. The job site superintendent will be responsible for ensuring that these procedures are followed.

A. Good Housekeeping

The following good housekeeping practices will be followed onsite during the construction project.

1. An effort will be made to store only enough products required to do the job.

2. All materials stored onsite will be stored in a neat, orderly manner and, if possible, under a roof or in a containment area. At a minimum, all containers will be stored with their lids on when not in use. Drip pans shall be provided under all dispensers.

3. Products will be kept in their original containers with the original manufacturer's label in legible condition.

4. Substances will not be mixed with one another unless recommended by the manufacturer.

5. Whenever possible, all of a product will be used up before disposing of the container.

6. Manufacturer's recommendations for proper use and disposal will be followed.

7. The job site superintendent will be responsible for daily inspections to ensure proper use and disposal of materials.

B. Hazardous Products

These practices will be used to reduce the risks associated with hazardous materials. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the SWPPP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

1. Products will be kept in original containers with the original labels in legible condition.

2. Original labels and material safety data sheets (MSDS's) will be procured and used for each material.

3. If surplus product must be disposed of, manufacturer's or local/state/federal recommended methods for proper disposal will be followed.

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4. A spill control and containment kit (containing for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.

5. All of the product in a container will be used before the container is disposed of. All such containers will be triple rinsed with water prior to disposal. The rinse water used in these containers will be disposed of in a manner in compliance with state and federal regulations and will not be allowed to mix with storm water discharges.

C. Hazardous Waste

All hazardous waste materials will be disposed of by the Contractor in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. Site personnel will be instructed in these practices by the job site superintendent, who will also be responsible for seeing that these practices are followed.

D. Product Specific Practices

The following product specific practices will be followed on the job site.

1. Petroleum Products

All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any petroleum storage tanks stored onsite will be located within a containment area that is designed with an impervious surface between the tank and the ground. The secondary containment must be designed to provide a containment volume that is equal to 110% of the volume of the largest tank. Drip pans shall be provided for all dispensers. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations. The location of any fuel tanks and/or equipment storage areas must be identified on a plan by the contractor once the locations have been determined.

2. Fertilizers

Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked in the soil to limit exposure to stormwater. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

3. Paints, Paint Solvents, and Cleaning Solvents

All containers will be tightly sealed and stored when not in use. Excess paint and solvents will not be discharged to the storm sewer system but will be properly disposed of according to manufacturer's instructions or state and federal regulations.

4. Concrete Wastes

Concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water on the site, but only in either (1) specifically designated diked areas which have been prepared to prevent contact between the concrete and/or wash out and storm water which will be discharged from the site or (2) in locations where waste concrete can be poured into forms to make riprap or other useful concrete products.

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The hardened residue from the concrete wash out diked areas will be disposed of in the same manner as other non-hazardous construction waste materials or may be broken up and used on site as deemed appropriate by the Contractor. The job site superintendent will be responsible for seeing that these procedures are followed.

All concrete wash out areas will be located in an area where the likelihood of the area contributing to storm water discharges is negligible. If required, additional BMPs must be implemented to prevent concrete wastes from contributing to storm water discharges. The location of concrete wash out area(s) must be identified on a plan by the contractor once the locations have been determined. In addition, a standard detail on the construction of the concrete wash out shall be included on this plan.

E. Solid and Construction Wastes

All waste materials will be collected and stored in an appropriately covered container and/or securely lidded metal dumpster rented from a local waste management company which must be a solid waste management company licensed to do business in New York and the Town of Amherst. The dumpster will comply with all local and state solid waste management regulations.

All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of twice per week or more often if necessary, and the trash will be hauled to a landfill approved by the NYSDEC. No construction waste materials will be buried on site. All personnel will be instructed regarding the correct procedures for waste disposal.

All waste dumpsters and roll-off containers will be located in an area where the likelihood of the containers contributing to storm water discharges is negligible. If required, additional BMPs must be implemented, such as sandbags around the base, to prevent wastes from contributing to storm water discharges. The location of waste dumpsters and roll-off containers must be identified on a plan by the contractor once the locations have been determined.

F. Sanitary Wastes

Portable toilet units or field offices with toilet facilities connected to the municipal sanitary sewer will be used for sanitary purposes. All portable toilet units will be emptied a minimum of once per week by a licensed portable facility provided in compliance with local and state regulations.

All sanitary waste units will be located in an area where the likelihood of the unit contributing to storm water discharges is negligible. If required, additional BMPs must be implemented, such as sandbags around the base, to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on a plan by the contractor once the locations have been determined.

G. Contaminated Soils

Any contaminated soils (resulting from spills of materials with hazardous properties) which may result from construction activities will be contained and cleaned up immediately in accordance with the procedures given in the Materials Management Plan and in accordance with applicable state and federal regulations.

118.3 SPILL PREVENTION AND RESPONSE PROCEDURES

The Contractor will train all personnel in the proper handling and cleanup of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with

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storm water discharges. If such contact occurs, the storm water discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job site superintendent to properly train all personnel in spill prevention and clean up procedures.

A. In order to minimize the potential for a spill of hazardous materials to come into contact with storm water, the following steps will be implemented:

1. All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, cleaning solvents, additives for soil stabilization, concrete curing compounds and additives, etc.) will be stored in a secure location, with their lids on, preferably under cover, when not in use.

2. The minimum practical quantity of all such materials will be kept on the job site.

3. A spill control and containment kit (containing, for example, absorbent materials, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.

4. Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.

B. In the event of a spill, the following procedures should be followed

1. All spills will be cleaned up immediately after discovery.

2. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with the hazardous substances.

3. The project manager and the Engineer of Record will be notified immediately.

   Spills of toxic or hazardous materials will be reported to the appropriate federal, state, and/or local government agency, regardless of the size of the spill. Spills of amounts that exceed Reportable Quantities of certain substances specifically mentioned in federal regulations (40 CFR 110, 40 CFR 117, and 40 CFR 302) must be immediately reported to the EPA National Response Center, telephone 1-100-424-1102. From SWPPP-9 “Reportable Quantity Release Form” must be filled out.

4. If the spill exceeds a Reportable Quantity, the SWPPP must be modified within seven (7) calendar days of knowledge of the discharge to provide a description of the release, the circumstances leading to the release, and the date of the release. The plans must identify measures to prevent the recurrence of such releases and to respond to such releases.

C. The job site superintendent will be the spill prevention and response coordinator. He will designate the individuals who will receive spill prevention and response training. These individuals will each become responsible for a particular phase of prevention and response. The names of these personnel will be posted in the material storage area and in the office trailer onsite.

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119 CONTROL OF NON-STORM WATER DISCHARGES

Certain types of discharges are allowable under the NYSDEC SPDES General Permit for Construction Activity for the State of New York, and it is the intent of this SWPPP to allow such discharges. These types of discharges will be allowed under the conditions that no pollutants will be allowed to come in contact with the water prior to or after its discharge. The control measures which have been outlined previously in this SWPPP will be strictly followed to ensure that no contamination of these non-storm water discharges takes place. The following allowable non-storm water discharges which may occur at the job site include:

A. Discharges from firefighting activities.

B. Fire hydrant flushings (see note below)

C. Waters used to wash vehicles or control dust in order to minimize offsite sediment tracking.

D. Routine external building washdown which does not use detergents.

E. Pavement wash waters where spills or leaks of hazardous materials have not occurred or detergents have not been used.

F. Air conditioning condensate.

G. Springs or other uncontaminated groundwater, including dewatering ground water infiltration.

H. Foundation or footing drains where no contamination with process materials such as solvents is present.

Note: The Contractor shall discharge any super-chlorinated water from water distribution pipe disinfection activities into sanitary sewer system

120 STORM WATER CONTROL FACILITY MAINTENANCE

The frequency of inspections for the bioretention areas shall match the frequencies listed on the “Bioretention Operation, Maintenance and Management Inspection Checklist” in Appendix K of the SWPPP.

The proposed catch basins, as per section 115, shall be inspected 4 times per year for removal of floatable debris. Any silt buildup over 6” in depth shall be removed and disposed of properly off-site.

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Appendix A

Site Location Map

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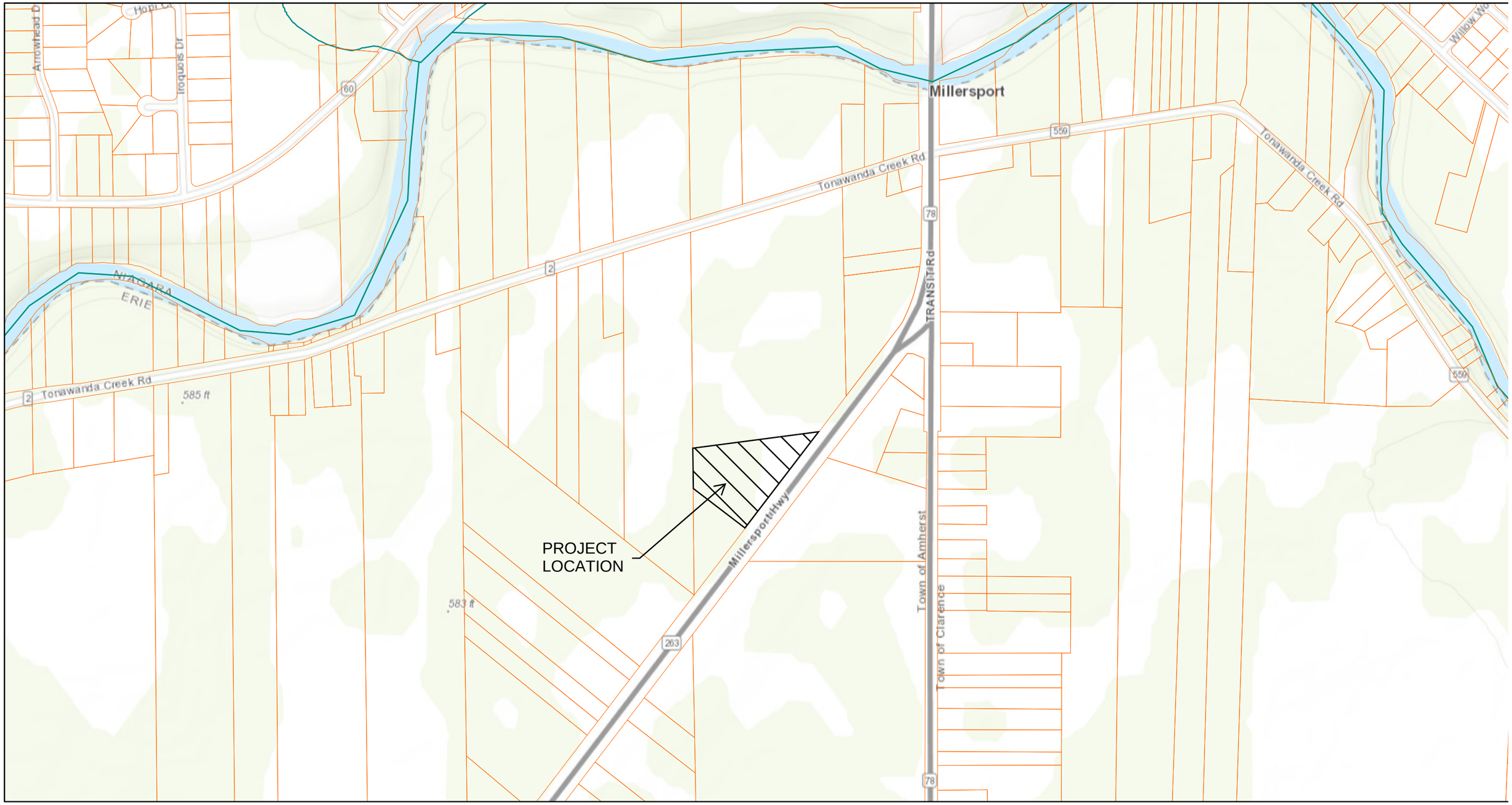
Site Location Map



August 13, 2024

1:9,028

0 0.07 0.15 0.3 mi

0 0.13 0.25 0.5 km

Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

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Not a legal document

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Stormwater Interactive Map



The coordinates of the point you clicked on are:

UTM 18	**Easting:**	198716.139	**Northing:**	4776371.041
Longitude/Latitude	**Latitude:**	43.080	**Longitude:**	-78.701

The approximate address of the point you clicked on is:
14051, East Amherst, New York

County: Erie
Town: Amherst
USGS Quad: CLARENCE CENTER

DEC Administrative Boundaries

Region 9:
(Western New York) Allegany, Chautauqua, Cattaraugus, Erie, Niagara and Wyoming counties. For more information visit http://www.dec.ny.gov/about/617.html.

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Appendix B

NYSDEC Notice of Intent (NOI)

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NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR _____ (for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-20-001

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-
RETURN THIS FORM TO THE ADDRESS ABOVE
OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
Stephens Property Holdings, LLC

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Stephens

Owner/Operator Contact Person First Name
Kevin

Owner/Operator Mailing Address
kjs@stephensplumbingny.com

City
East Amherst

State: NY Zip: 14051 -

Phone (Owner/Operator): 716 - 512 - 9451 Fax (Owner/Operator): ___ - ___ - ____

Email (Owner/Operator)
kjs@stephensplumbingny.com

FED TAX ID
93 - 2456229 (not required for individuals)

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Project Site Information

Project/Site Name

PROPOSED WAREHOUSE BUILDINGS

Street Address (NOT P.O. BOX)

5500 MILLERSPORT Highway

Side of Street

● **North** ○ **South** ○ **East** ○ **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)

Amherst

State: NY

Zip: 14051 -

County: Erie

DEC Region: 9

Name of Nearest Cross Street

Transit Road

Distance to Nearest Cross Street (Feet)

1000

Project In Relation to Cross Street

○ **North** ○ **South** ○ **East** ● **West**

Tax Map Numbers
Section-Block-Parcel

4.00-3.20

Tax Map Numbers

4.00-3.20

1. Provide the Geographic Coordinates for the project site. To do this, go to the NYSDEC Stormwater Interactive Map on the DEC website at:

https://gisservices.dec.ny.gov/gis/stormwater/

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located the centroid of your project site, go to the bottom right hand corner of the map for the X, Y coordinates. Enter the coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting)

78.701

Ex. -73.749

Y Coordinates (Northing)

43.080

Ex. 42.652

2. What is the nature of this construction project?

○ **New Construction**

● **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

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3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use	Post-Development Future Land Use
○ FOREST	○ SINGLE FAMILY HOME
○ PASTURE/OPEN LAND	○ SINGLE FAMILY SUBDIVISION
○ CULTIVATED LAND	○ TOWN HOME RESIDENTIAL
○ SINGLE FAMILY HOME	○ MULTIFAMILY RESIDENTIAL
○ SINGLE FAMILY SUBDIVISION	○ INSTITUTIONAL/SCHOOL
○ TOWN HOME RESIDENTIAL	○ INDUSTRIAL
○ MULTIFAMILY RESIDENTIAL	● COMMERCIAL
○ INSTITUTIONAL/SCHOOL	○ MUNICIPAL
○ INDUSTRIAL	○ ROAD/HIGHWAY
● COMMERCIAL	○ RECREATIONAL/SPORTS FIELD
○ ROAD/HIGHWAY	○ BIKE PATH/TRAIL
○ RECREATIONAL/SPORTS FIELD	○ LINEAR UTILITY (water, sewer, gas, etc.)
○ BIKE PATH/TRAIL	○ PARKING LOT
○ LINEAR UTILITY	○ CLEARING/GRADING ONLY
○ PARKING LOT	○ DEMOLITION, NO REDEVELOPMENT
○ OTHER	○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
	○ OTHER

Number of Lots

***Note**: for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
5.0	1.8	0.2	0.9

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ● **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
%	%	%	100 %

7. Is this a phased project? ○ **Yes** ● **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date	End Date
09/20/2025	09/20/2026

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9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

Unnamed tributary to Ransom Creek

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ● Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001? ● **Yes** ○ **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001? ○ **Yes** ● **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ● **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ **Yes** ● **No**
If Yes, what is the acreage to be disturbed?

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ● **No**

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15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ● Yes ○ No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

Town of Amherst

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ● No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ● No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ● No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ● Yes ○ No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ● Yes ○ No

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24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer: Carmina Wood Design

Contact Name (Last, Space, First): Wood Christopher

Mailing Address: 80 Silo City Row, Suite 100

City: Buffalo

State: NY Zip: 14203-

Phone: 716-842-3165 Fax: --- --- ----

Email: cwood@carminawooddesign.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name: Christopher **MI**:

Last Name: Wood

Signature



Date: 07 / 07 / 2025

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25. Has a construction sequence schedule for the planned management practices been prepared? ● Yes ○ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ● Stabilized Construction Entrance
- ● Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ● Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ○ Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ○ Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ● **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ● **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ○ **Roadway Reduction**
- ● **Sidewalk Reduction**
- ● **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ○ **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ● All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- ○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

		0	.	0	5	7

acre-feet

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

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Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area (acres)	
RR Techniques (Area Reduction)				
○ Conservation of Natural Areas (RR-1)		and/or		
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or		
○ Tree Planting/Tree Pit (RR-3)		and/or		
○ Disconnection of Rooftop Runoff (RR-4)		and/or		
RR Techniques (Volume Reduction)				
○ Vegetated Swale (RR-5)				
○ Rain Garden (RR-6)				
○ Stormwater Planter (RR-7)				
○ Rain Barrel/Cistern (RR-8)				
○ Porous Pavement (RR-9)				
○ Green Roof (RR-10)				
Standard SMPs with RRv Capacity				
○ Infiltration Trench (I-1)				
○ Infiltration Basin (I-2)				
○ Dry Well (I-3)				
○ Underground Infiltration System (I-4)				
● Bioretention (F-5)			0.57	
○ Dry Swale (O-1)				
Standard SMPs				
● Micropool Extended Detention (P-1)			0.13	
○ Wet Pond (P-2)				
○ Wet Extended Detention (P-3)				
○ Multiple Pond System (P-4)				
○ Pocket Pond (P-5)				
○ Surface Sand Filter (F-1)				
○ Underground Sand Filter (F-2)				
○ Perimeter Sand Filter (F-3)				
○ Organic Filter (F-4)				
○ Shallow Wetland (W-1)				
○ Extended Detention Wetland (W-2)				
○ Pond/Wetland System (W-3)				
○ Pocket Wetland (W-4)				
○ Wet Swale (O-2)				

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Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area(acres)
○ Hydrodynamic	
○ Wet Vault	
○ Media Filter	
○ Other _____	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

0.022 **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ● **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

0.011 **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

● **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

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33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

0.035 **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). 0.057

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ● **Yes** ○ **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

0.064 **acre-feet**

CPv Provided

0.064 **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

16.36 **CFS**

Post-development

10.65 **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

29.75 **CFS**

Post-development

19.63 **CFS**

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37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ● Yes ○ No

If Yes, Identify the entity responsible for the long term Operation and Maintenance

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

Existing site conditions prevent the use of an infiltration technique and or infiltration of the total WQv due to soils with a low infiltration rate.

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40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ][ ]
- ○ Other [ ]
- ● None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ● **No**
If Yes, Indicate Size of Impact. [ ][ ][ ][ ][ ].[ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ● **Yes** ○ **No**
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ● **Yes** ○ **No**

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. [N][Y][R][ ][ ][ ][ ][ ][ ]

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3547089826

Owner/Operator Certification

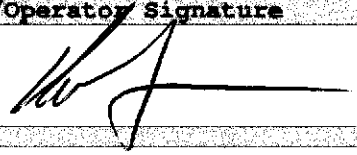
I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name: KEVIN

MI: J

Print Last Name: STEPHENS

Owner/Operator Signature:



Date: 11/20/2024

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix C

MS4 SWPPP Acceptance Form

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis
59-17 Junction Blvd., 9th Floor; Flushing, NY 11373

SWPPP Acceptance/Approval

Application Number:

I. Project Owner/Operator Information

1. Owner/Operator Name:	Kevin Stephens
2. Contact Person:	Kevin Stephens
3. Street Address:	5500 Millersport Highway
4. City/State/Zip:	East Amherst/NY/14051

II. Project Site Information

5. Project/Site Name:	Proposed Warehouse Building
6. Street Address:	5500 Millersport Highway
7. City/State/Zip:	Amherst, NY 14051

III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance/Approval

8. SWPPP Reviewed by:

9. Title/Position: /

10. Date Final SWPPP Reviewed and Accepted:

11. Acceptance/Approval Expiration Date:

IV. Regulated MS4 Information for projects that require coverage under the NY State Pollution Discharge Elimination System General Permit for Stormwater Discharges from Construction Activity

12. Name of MS4: *CITY OF NEW YORK*

13. MS4 SPDES Permit Identification Number: *NY-0287890*

14. Contact Person:

15. Street Address: *59-17 Junction Blvd. 9th Floor*

16. City/State/Zip: *Flushing, NY 11373*

17. Telephone Number:

Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis
59-17 Junction Blvd., 9th Floor; Flushing, NY 11373

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identifiec in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s).

Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plar

Printed Name:

Title/Position:

Signature:

Date:

VI. Conditions of Acceptance/Approval and Additional Information

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.

Appendix D

Engineer's Report

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

CARMINA WOOD
DESIGN

ENGINEER'S REPORT

for

Proposed Warehouse Buildings

5500 Millersport Hwy
Amherst, County of Erie, NY

Prepared for

Stephens Plumbing

Kevin Stephens
5500 Millersport Hwy, East Amherst, NY 14051

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

Telephone: (716) 842-3165
Fax: (716) 842-0263

November 2025
Revised July 2025



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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Section 2 - Water Service
Section 3 - Sanitary Sewer Service
Section 4 - Storm Sewer Service

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- Septic System Report

Appendix B Storm Sewer System Drainage Calculations

- Existing Runoff
- Proposed Runoff
  - Green Infrastructure & Water Quality Calculations

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Section 1 - Location & Description

This project is a development of a 4.98 acre site located on the far north-west side of Millersport Hwy in the Town of Amherst. Construction will consist of a 14,110 sf warehouse building and will also include associated utility, lighting and landscaping improvements. Currently the site is developed with an existing building and gravel parking lot. The proposed site development area to be disturbed for this project is approximately 1.82 acres when construction is completed. The site is currently zoned as "Commercial Service" and will not be rezoned.

Section 2 - Water Service

Water service for the Warehouse building will be tapped off the existing 10" ECWA water main on the west side of Millersport Hwy. The proposed building will have a 1.5" Polyethylene Domestic Service lateral connection to the 10" main. Water inside the buildings will be used for typical domestic uses. A public fire hydrant will be installed at the front of the site to ensure compliance with the town's fire protection code.

Pipe material for the new service, fittings, valves, etc. will be installed in accordance with the Town of Amherst and Erie County Water Authority (ECWA). The proposed service will be installed and tested in accordance with the Town of Amherst and ECWA Standard Specifications. Inspection and certification of the installation and testing of the water samples will be done by the ECWA. There are no conflicts with existing utilities in the area. The proposed water service will maintain physical separation from other utilities as specified per Ten States Standards.

Domestic Summary:	
Peak Operating Demand:	1.13 gpm
Water Main:	10" on Millersport Hwy
Static Pressure:	92 psi (Per ECWA)
Friction Loss:	0.01 psi
Loss through meter/RPZ:	13.9 psi
Elevation Loss:	0.87 psi
Pressure after RPZ:	78.1 psi

Repairs to all devices will be made during off hours, dual backflow preventers are not required. The site is not located in a 100-year flood plain. Disinfection of the water service following installation will be continuous feed, according to AWWA C-651, latest revision.

Section 3 - Sanitary Sewer Service

The proposed building will have a 6" SDR-35 PVC sanitary lateral at 1.0% minimum slope. The laterals will connect to the proposed on-site Septic System.

Design Parameters

Warehouse Building:	15 gal/day/employee x 30 employees = 450 gpd

The hydraulic loading rate is per "Design Standards for Intermediate Sized Wastewater Treatment Systems" 2014, NYSDEC.

The Septic System report is included in Appendix A of this report.

Section 4 - Storm Sewer Service

The existing site currently sheet drains in multiple directions, either north to existing onsite drainage ditch on the north Property line or southeast towards the existing drainage ditch along Millersport Hwy. Ultimately all on site stormwater runoff flows into the Town of Amherst stormwater sewer along the southeast side of Millersport Hwy.

Stormwater runoff collected onsite as a result of the proposed development will be routed through the proposed storm sewer system consisting of a bioretention areas and a mircopool extended detention pond connected by a series of catch basins and smooth interior HDPE stormwater pipe. The bioretention area on

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

site are designed to provide 100% of the required runoff reduction volume (RRv) and most of the water quality treatment (WQv) based on the contributing area of 0.64 acres. The remainder of water quality treatment will be provided by the micropool extended detention pond for the 1.10 tributary area (see below). The soils in the vicinity of the bioretention areas are mainly USDA hydrologic group 'D' and therefore the system will be installed with underdrains per NYSDEC requirements. The bioretention areas will consist of 8" perforated HDPE underdrains in 12" of drainage gravel, followed by filter fabric and then finally 18" minimum of planting soil. Overflow yard drains will be installed to allow 6" maximum ponding for RRv treatment. Stormwater detention is required per NYSDEC standards and specifications. A 12" outlet control pipe will be provided within the basin to attenuate proposed runoff to required existing conditions prior to discharge off site. Discharge from the detention pond will outlet to an existing Town of Amherst stormwater ditch along the north property line.

Runoff reduction volume (RRv), water quality volume (WQv) and stormwater volume attenuation for the site is designed in accordance with Chapter 4 of the NYSDEC Stormwater design manual. The bioretention areas are provided as a "green infrastructure" practice to provide runoff reduction and a portion of water quality treatment, and the remainder of WQv will be provided in the micropool extended detention basin to meet the Chapter 4 requirements for the currently undeveloped areas. Runoff from the site was looked at as a whole for the calculation of volume attenuation requirements. The existing site has a pre-development total of 0.25 acres of impervious cover. The amount of impervious cover post-development is 0.89 acres, an increase of 0.64 acres in impervious area on site. The proposed dry detention pond is designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates, as well as the below stated Town stormwater runoff requirements.

Town of Amherst Requirement:
The Town of Amherst requires that the 25-year proposed storm event be attenuated with detention and that the outlet flowrate be restricted to the 10-year existing storm event. This volume of 6,808 cf is accommodated in the detention basin at elevation 583.74. At this elevation, the outlet discharge will be restricted to 0.51 cfs from the pond, which is less than the existing 10-year peak runoff outflow of 16.36 cfs of the overall site.

Detention Pond Summary:
Top of basin elevation = 586.00
Bottom of basin elevation = 581.90
100-year storm storage volume = 8,637 cf @ 584.09

Water Quality Summary:
WQv req'd = 2,487 cf (0.057 ac-ft)
RRv min. req'd = 483 cf (0.011 ac-ft)
RRv provided - bioretention area = 960 cf (0.022 ac-ft)
WQv provided – bioretention area = 1,018 cf (0.023 ac-ft)
WQv provided – micropool extended detention pond area = 509 cf (0.012 ac-ft)
Total RRv + WQv provided = 960 cf + 1,527 cf = 2,487 cf (0.057 ac-ft)

Bioretention: 100% of minimum post-development Runoff Reduction volume (RRv)
& Water Quality Volume (WQv)
Area: 1,800 sf
Bottom Elevation: 585.00

Detention: Comparison of the existing 1-year vs. the proposed 1-year runoff
Comparison of the existing 10-year vs. the proposed 10-year runoff
Comparison of the existing 10-year vs. the proposed 25-year runoff
Comparison of the existing 100-year vs. the proposed 100-year runoff

Runoff Summary:

Event	Ex. Runoff (cfs)	Pro. Runoff (cfs)	Result (cfs)
1-year	5.93	3.78	-2.15
10-year	16.36	10.65	-5.71
25-year	21.53	14.10	-7.43
100-year	29.75	19.63	-10.12

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix A

Sanitary Sewer and Water Demand Calculations

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

CARMINA WOOD DESIGN
80 SILO CITY WAY, SUITE 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 24-4019 Date: 7/1/2025

1.c

Project Name: Proposed Warehouse Building
Project Address: 5500 Millersport Highway Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 2

Sanitary Sewage Demand Calculations:

Proposed Warehouse

*use 110 gallons per unit per day (1-bdrm)

15	gal/d/employee	x	30	employee	=	450	gpd

*use 10 gallons per employee per day

Total Site Sanitary Demand: = 450 gpd

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

CARMINA WOOD DESIGN
80 SILO CITY WAY, SUITE 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 24-4019 Date: 7/1/2025 **1.c**
Project Name: Proposed Warehouse Building
Project Address: 5500 Millersport Highway Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 2 of 2

Water Demand Calculations (domestic):

Proposed Warehouse

*use 110% of sewage demand

*use 1.8 peaking factor and assume a 12 hour day

450 gpm x 1day/12hr x 1hr/60min = 0.63 gpm

0.63 gpm x 1.8 = 1.13 gpm Q_{peak}

Headlosses:

Q_{peak} = 1.13 gpm

Pipe = 1.50 inch Polyethylene C = 140

Length = 75 LF (approx. distance from tap to RPZ in hot box)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(146)(1.84)^{1.85}}{(140)^{1.85}\ (1.5)^{4.866}} = 0.01 \text{ ft} = 0.01 \text{ psi}$$

Δ elev = 2 ft = 0.87 psi

Loss through meter = 1 psi

Loss through RPZ = 12 psi

Total Losses = 13.9 psi

Static Pressure = 92 psi (per ECWA)

Residual Pressure Following RPZ = 92 - 13.9 = 78.1 psi (available after rpz & meter)

Residual Pressure 30" above 2nd Floor

Δ elev = 11 ft = 4.76 psi

Residual Pressure 30" above 2nd Floor = 73.4 psi

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Septic System Report

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

CARMINA WOOD
DESIGN

SEPETIC SYSTEM REPORT

for

Proposed Warehouse Buildings

5500 Millersport Hwy
Amherst, County of Erie, NY

Prepared for

Stephens Plumbing

Kevin Stephens
5500 Millersport Hwy
East Amherst, NY 14051

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

Telephone: (716) 842-3165
Fax: (716) 842-0263

March 2025



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

General

This project is the construction of an 14,110-sf warehouse building. The location is south-west of the Transit Road and Millersport Highway intersection in Amherst, NY.

Design Basis

The design ss based on the NYSDEC Design Standards for Intermediate Sized Wastewater Treatment Systems, March 5, 2014, Section B.6.b, Design Flow, Table B-3. To determine the flow requirements, 15 gpd/employee this calculates out to be 450 gallons per day.

Site Evaluation

This is scheduled to be done, and the report will be updated once completed. A machine excavated test pit hole will be dug to a depth of 6' and soil conditions will be documented. Topsoil thickness will be measured. A percolation test was not done. Tests in the near proximity did not perc, so the expectation is that this land will not perc.

Soil Evaluation

This is scheduled to be done, and the report will be updated once completed. The above excavation will be dug and left for approximately 1 hour to allow for any ground water regeneration. Ground water depth will be observed and reported. Evidence of mottling will be checked. Depth of rock encountered will be reported.

Peak Wastewater Flow

The design will be based on a peak flow of 450 gallons per day. This was determined based on the NYSDEC Standards for Intermediate Sized Wastewater Treatment Systems, March 5, 2014, Section B.6.b, Design Flow, Table B-3, suggesting 110 gpd/bedroom and 15 gpd per employee.

Primary Treatment

Per NYSDEC Part D.6, Table D-2
Tank Size (gal) = 1.5Q

Mixed use Building Flow (gpd) =
Tank size (gal) = 1.5 x 450 gpd = 675 gallons = use 1,000 gallon tank

Secondary Treatment

A sand filter system will be provided. A 1 bed system will be implemented and dosed with a dosing pump. Using the recommended sewage application rate of 1.0 gal/day/sf, the filter area required = 450 gpd / 1.0 gal/day/sf = 450 sf filter area. Based on the premise of (6) six 4" perforated PVC distribution lines, the filter area will consist of a 25' x 18' bed of (6) six lines @ 3.0' oc @ 21' lengths. The filter bed will have (3) three 4" perforated PVC under drains @ 6.0' oc @ 21' lengths. The bed will be surrounded by a 6 mil. liner to lessen the potential of infiltration by groundwater.

Minimum Separation Distance

All filter and absorption beds shall be located 20 ft min. from dwellings and 10 ft min. from property lines. All septic and pump tanks shall be a min. of 10 ft from all property lines and building foundations.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Downstream Absorption Mound

A "mound" of sand percolation rate between 5 and 30 minutes/inch) shall be installed following the sand filter outfall a min. of 24" in depth with 8" of NYSDOT #2 washed stone and (3) three 4" perforated PVC distribution lines covered with geotextile fabric & at least 6" of topsoil. Tapered slopes are not to exceed 3H:1V with a basal area of approximately 450 sf. Sizing is based on an application rate of 1.0 gpd/sf. The basal area required = 450 gpd / 1.0 gal/day/sf = 450 sf. Based on the filtration of effluent by means of the dosed sand filter, the mound does not require pressure distribution.

Pump Tank

Dosing Volume:

Capacity per dose:
126 ft total line length
0.0873 cf per 1' line length = 126 ft x 0.0873 cf = 11.0 cf
11.0 cf @ 7.481 gallons / cf = 82 Total Gallons in Lines

Dosing Chamber (pump tank):

Dose absorption bed with pump sized for dynamic and static heads and set to deliver a max of 75% of field distributor volume. Provide a 5' diameter precast concrete, pump tank by Kistner or equal.

82 gal x 75% = 62 gal
450 gpd / 62 gal = 7 Doses per Day Total

Provide Goulds Model 3886 pump or equal ½ HP Submersible Sewage Ejector Pump or equal.

Accessories & Ancillary Structures

Sand Filter

Provide a concrete distribution box with a minimum of 6 outlets as manufactured by Kistner or equal. Set on C.M.U. pier dead level. Seal all penetrations watertight.

Absorption Mound

Provide a concrete distribution box with a minimum of 3 outlets as manufactured by Kistner or equal. Set on C.M.U. pier dead level. Seal all penetrations watertight.

Electrical

Provide electrical service in compliance with National Electrical Code, including new circuits, underground feeders in conduit and all required connections. Provide level controls; pump control panel, alarms by Goulds or equal for pump energizing.

Alarm

Pumps are to have an audible and visual alarm for high water alerts and include a panel for the alarm. Run and off indicators to be installed in 6x6 p.t. post in field; use NEMA or equal waterproof box.

Installation

All work and components are to be in strict compliance with the NYSDEC requirements with inspections and approvals scheduled in advance. All lengths of PVC pipe to be true to line and level. Reject all curved or out of round pipe. No wheeled equipment to be permitted over beds. Seed all disturbed areas to lawn using a mix of 50% perennial rye and 25% shady Kentucky Blue Grass.

Provide swales to divert surface runoff from sand filter bed and mound.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix B

Storm Sewer System Drainage Calculations

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Existing Runoff

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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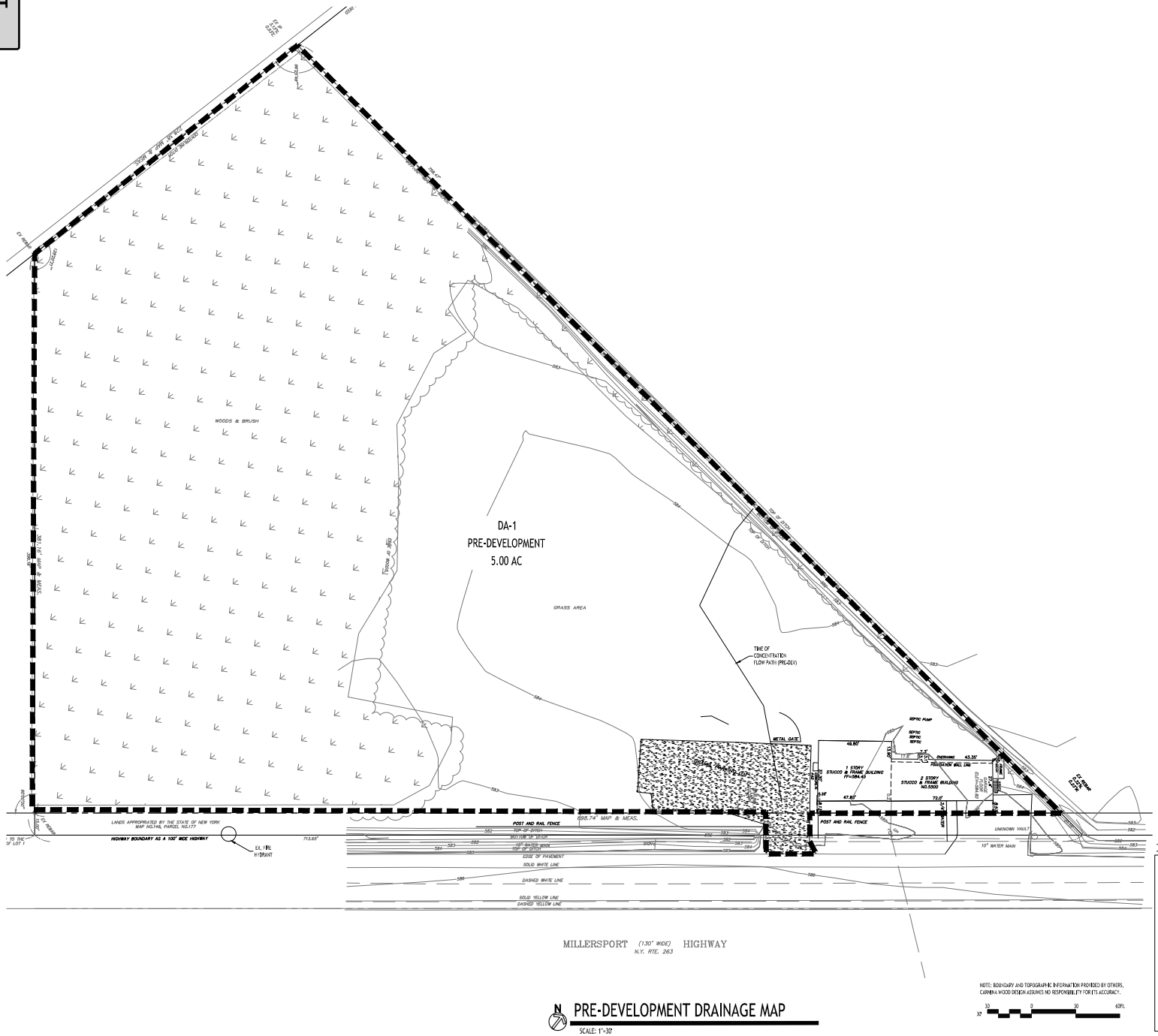


PRE-DEVELOPMENT DRAINAGE MAP

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 15 0 30 60Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:		
No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/01/2025

DRAWING NAME:
Pre-Development Drainage Map

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-1

Project No: 24.4019

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-YEAR	Type II 24-hr		Default	24.00	1	1.87	2
2	10-YEAR	Type II 24-hr		Default	24.00	1	3.30	2
3	25-YEAR	Type II 24-hr		Default	24.00	1	3.96	2
4	100-YEAR	Type II 24-hr		Default	24.00	1	4.99	2

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 2S: PRE-DEV

[49] Hint: Tc<2dt may require smaller dt

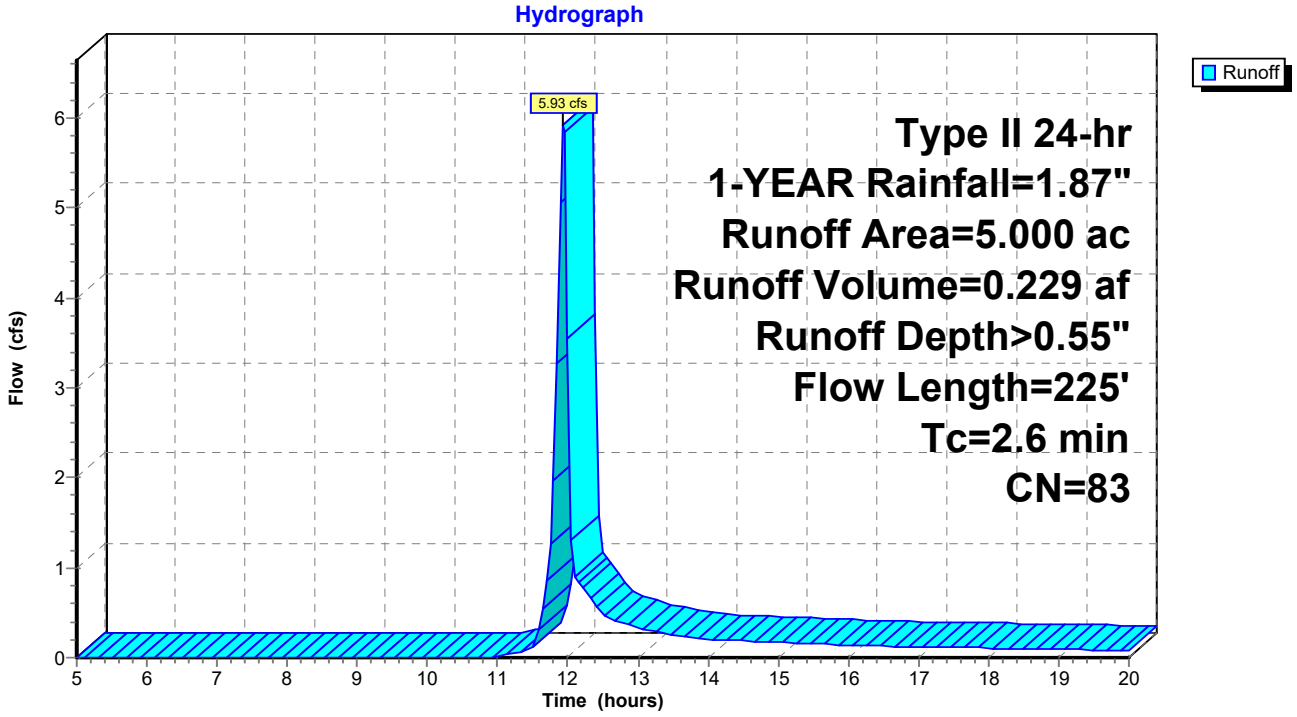
Runoff = 5.93 cfs @ 11.94 hrs, Volume= 0.229 af, Depth> 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-YEAR Rainfall=1.87"

Area (ac)	CN	Description
0.090	98	Roofs, HSG D
0.160	96	Gravel surface, HSG D
2.930	83	Woods, Poor, HSG D
1.820	80	>75% Grass cover, Good, HSG D
5.000	83	Weighted Average
4.910		98.20% Pervious Area
0.090		1.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.6	225	Total			

Subcatchment 2S: PRE-DEV



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 2S: PRE-DEV

[49] Hint: Tc<2dt may require smaller dt

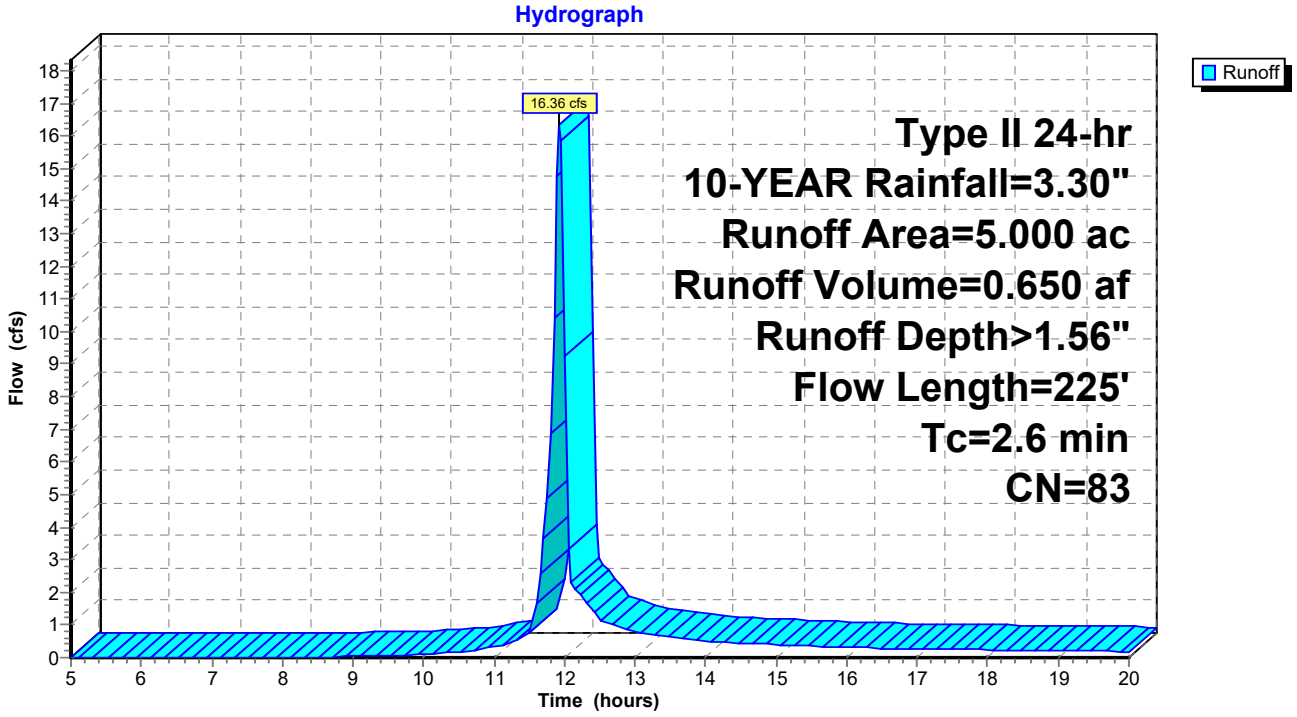
Runoff = 16.36 cfs @ 11.93 hrs, Volume= 0.650 af, Depth> 1.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-YEAR Rainfall=3.30"

Area (ac)	CN	Description
0.090	98	Roofs, HSG D
0.160	96	Gravel surface, HSG D
2.930	83	Woods, Poor, HSG D
1.820	80	>75% Grass cover, Good, HSG D
5.000	83	Weighted Average
4.910		98.20% Pervious Area
0.090		1.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.6	225	Total			

Subcatchment 2S: PRE-DEV



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 2S: PRE-DEV

[49] Hint: Tc<2dt may require smaller dt

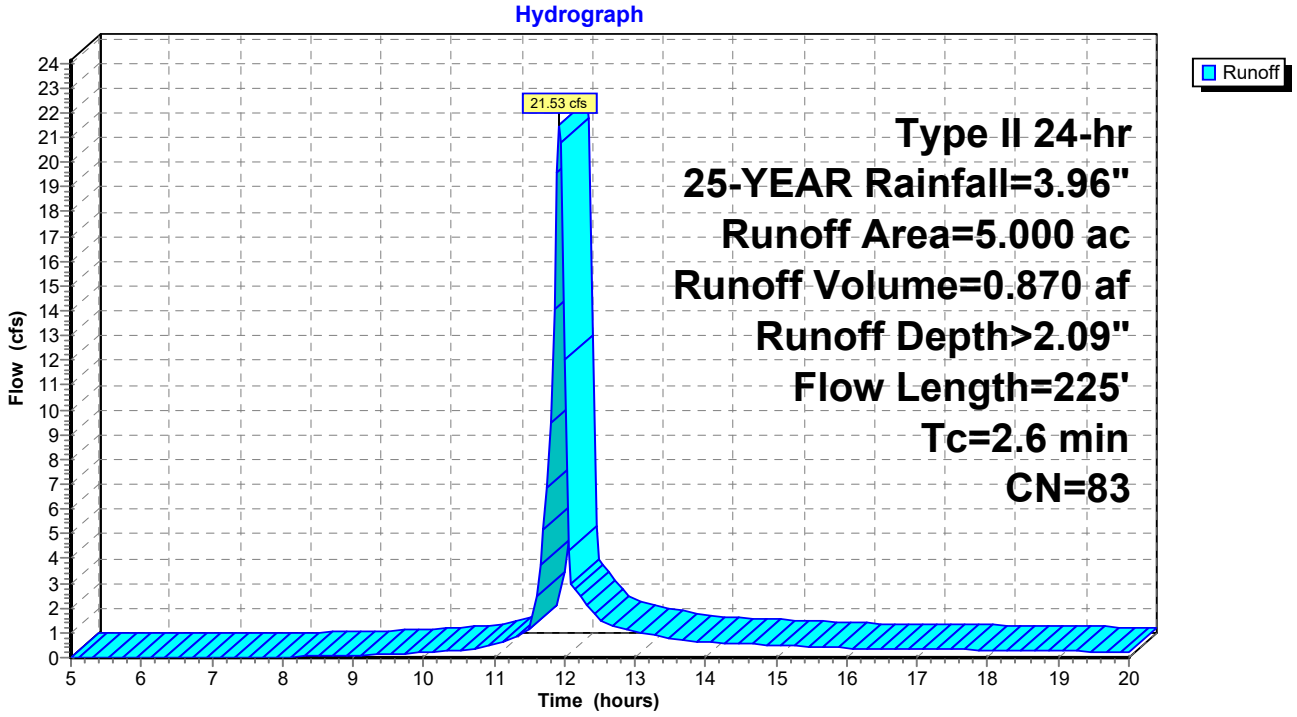
Runoff = 21.53 cfs @ 11.93 hrs, Volume= 0.870 af, Depth> 2.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-YEAR Rainfall=3.96"

Area (ac)	CN	Description
0.090	98	Roofs, HSG D
0.160	96	Gravel surface, HSG D
2.930	83	Woods, Poor, HSG D
1.820	80	>75% Grass cover, Good, HSG D
5.000	83	Weighted Average
4.910		98.20% Pervious Area
0.090		1.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.6	225	Total			

Subcatchment 2S: PRE-DEV



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 2S: PRE-DEV

[49] Hint: Tc<2dt may require smaller dt

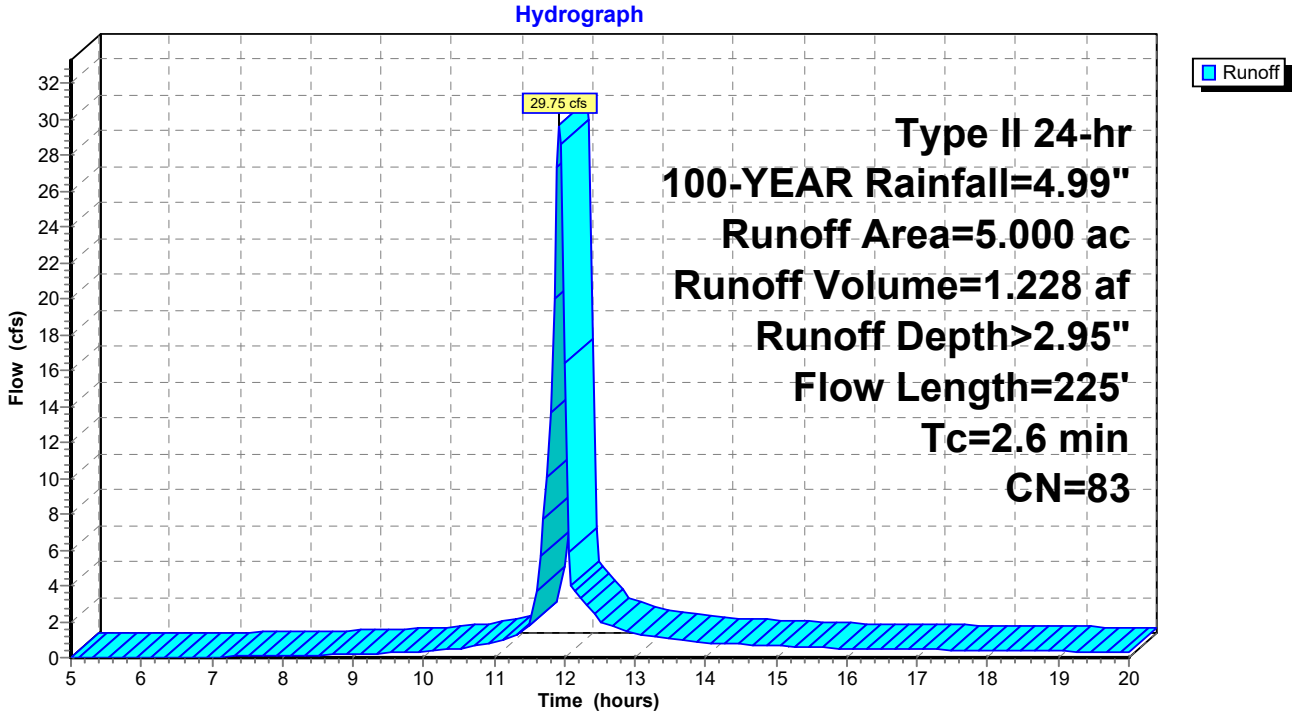
Runoff = 29.75 cfs @ 11.93 hrs, Volume= 1.228 af, Depth> 2.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-YEAR Rainfall=4.99"

Area (ac)	CN	Description
0.090	98	Roofs, HSG D
0.160	96	Gravel surface, HSG D
2.930	83	Woods, Poor, HSG D
1.820	80	>75% Grass cover, Good, HSG D
5.000	83	Weighted Average
4.910		98.20% Pervious Area
0.090		1.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0200	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.6	225	Total			

Subcatchment 2S: PRE-DEV



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Proposed Runoff

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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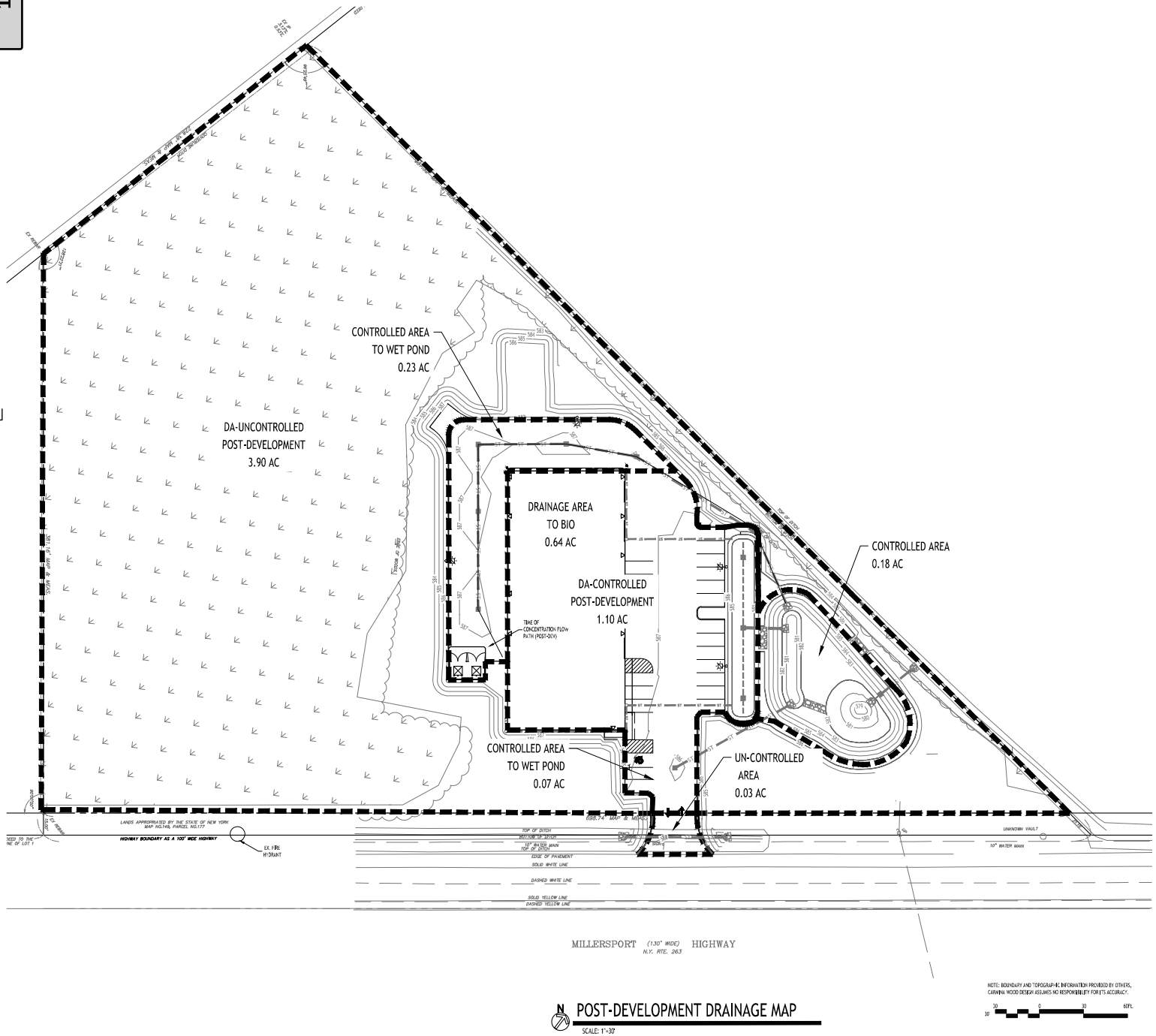


N

POST-DEVELOPMENT DRAINAGE MAP

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 0 30 60FT.

TOWN OF AMHERST APPROVAL BOX:

CARMINA WOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

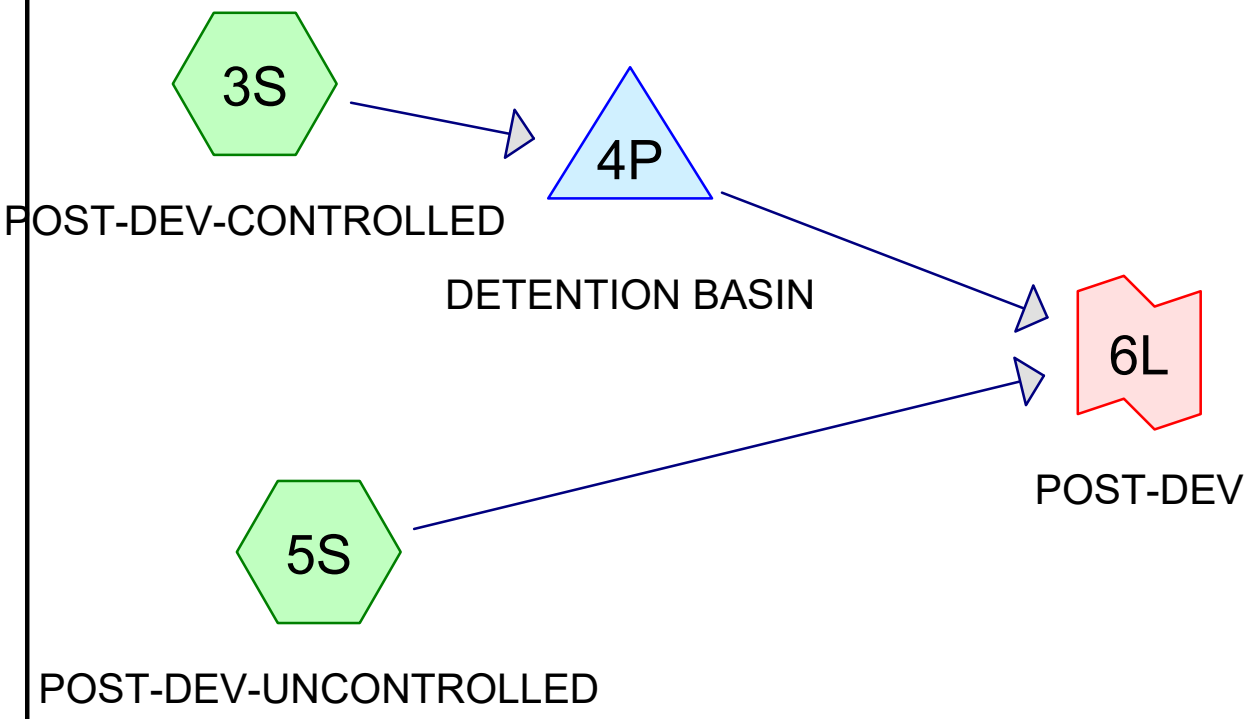
REVISIONS: No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/01/2025

DRAWING NAME:
Post-Development Drainage Map

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-2

Project No: 24.4019



Subcat Reach Pond Link

Routing Diagram for 24-4019 Hydrocad - New Layout
Prepared by Carmina Wood Morris, PC, Printed 7/1/2025
HydroCAD® 10.20-2h s/n 05019 © 2024 HydroCAD Software Solutions LLC

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-YEAR	Type II 24-hr		Default	24.00	1	1.87	2
2	10-YEAR	Type II 24-hr		Default	24.00	1	3.30	2
3	25-YEAR	Type II 24-hr		Default	24.00	1	3.96	2
4	100-YEAR	Type II 24-hr		Default	24.00	1	4.99	2

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.080	80	>75% Grass cover, Good, HSG D (3S, 5S)
0.600	98	Paved parking, HSG D (3S, 5S)
0.330	98	Roofs, HSG D (3S)
0.180	98	Water Surface, HSG D (3S)
2.810	83	Woods, Poor, HSG D (5S)
5.000	**86**	**TOTAL AREA**

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
5.000	HSG D	3S, 5S
0.000	Other	
5.000		**TOTAL AREA**

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	1.080	0.000	1.080	>75% Grass cover, Good	3S, 5S
0.000	0.000	0.000	0.600	0.000	0.600	Paved parking	3S, 5S
0.000	0.000	0.000	0.330	0.000	0.330	Roofs	3S
0.000	0.000	0.000	0.180	0.000	0.180	Water Surface	3S
0.000	0.000	0.000	2.810	0.000	2.810	Woods, Poor	5S
0.000	**0.000**	**0.000**	**5.000**	**0.000**	**5.000**	**TOTAL AREA**	

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Pipe Listing (selected nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	4P	581.76	581.66	26.0	0.0038	0.013	0.0	12.0	0.0
2	4P	581.90	581.86	10.0	0.0040	0.013	0.0	4.0	0.0

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment3S: Runoff Area=1.100 ac 98.18% Impervious Runoff Depth>1.54"
Flow Length=45' Slope=0.0200 '/' Tc=6.0 min CN=98 Runoff=2.77 cfs 0.141 af

Subcatchment5S: Runoff Area=3.900 ac 0.77% Impervious Runoff Depth>0.51"
Flow Length=225' Tc=8.3 min CN=82 Runoff=3.47 cfs 0.165 af

Pond 4P: DETENTION BASIN Peak Elev=582.89' Storage=2,838 cf Inflow=2.77 cfs 0.141 af
Outflow=0.35 cfs 0.137 af

Link 6L: POST-DEV Inflow=3.78 cfs 0.302 af
Primary=3.78 cfs 0.302 af

Total Runoff Area = 5.000 ac Runoff Volume = 0.306 af Average Runoff Depth = 0.73"
77.80% Pervious = 3.890 ac 22.20% Impervious = 1.110 ac

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 3S: POST-DEV-CONTROLLED

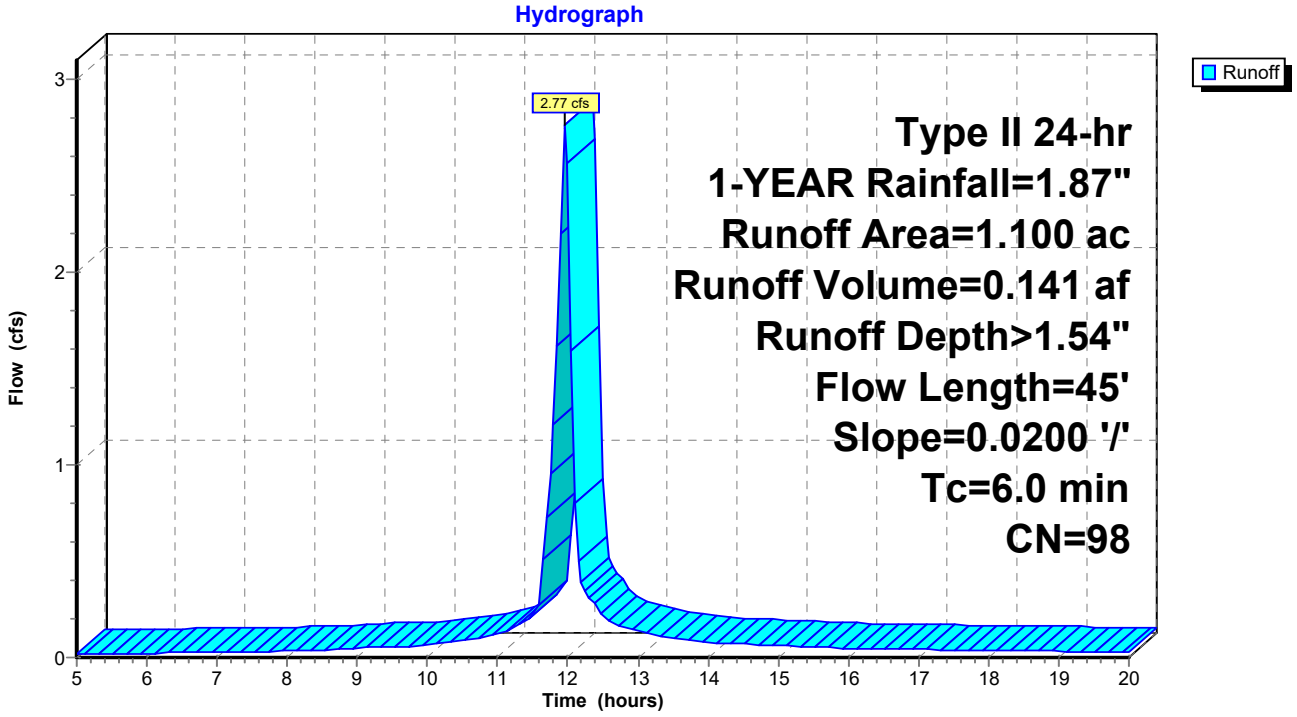
Runoff = 2.77 cfs @ 11.96 hrs, Volume= 0.141 af, Depth> 1.54"
Routed to Pond 4P : DETENTION BASIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-YEAR Rainfall=1.87"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.330	98	Roofs, HSG D
0.020	80	>75% Grass cover, Good, HSG D
0.180	98	Water Surface, HSG D
1.100	98	Weighted Average
0.020		1.82% Pervious Area
1.080		98.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	45	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"

Subcatchment 3S: POST-DEV-CONTROLLED



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 5S: POST-DEV-UNCONTROLLED

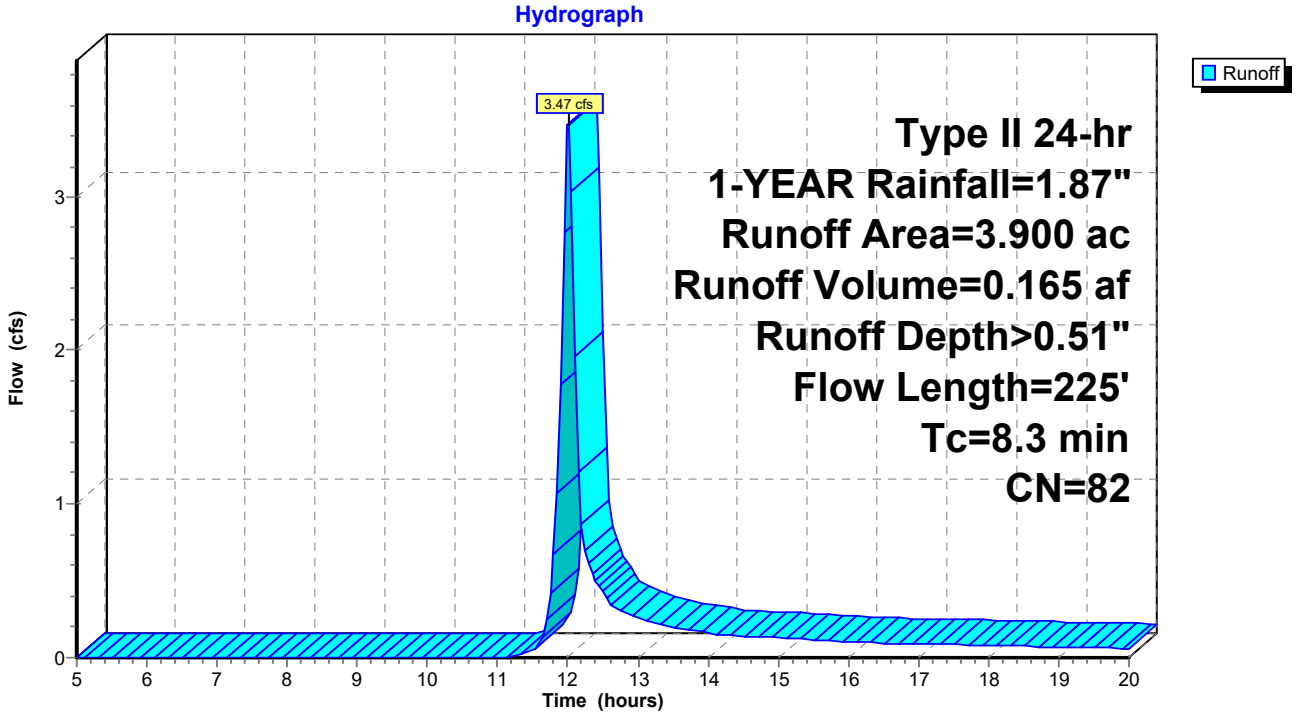
Runoff = 3.47 cfs @ 12.01 hrs, Volume= 0.165 af, Depth> 0.51"
Routed to Link 6L : POST-DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-YEAR Rainfall=1.87"

Area (ac)	CN	Description
2.810	83	Woods, Poor, HSG D
1.060	80	>75% Grass cover, Good, HSG D
0.030	98	Paved parking, HSG D
3.900	82	Weighted Average
3.870		99.23% Pervious Area
0.030		0.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	50	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
8.3	225	Total			

Subcatchment 5S: POST-DEV-UNCONTROLLED



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Pond 4P: DETENTION BASIN

[82] Warning: Early inflow requires earlier time span
[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 1.100 ac, 98.18% Impervious, Inflow Depth > 1.54" for 1-YEAR event
Inflow = 2.77 cfs @ 11.96 hrs, Volume= 0.141 af
Outflow = 0.35 cfs @ 12.25 hrs, Volume= 0.137 af, Atten= 88%, Lag= 17.4 min
Primary = 0.35 cfs @ 12.25 hrs, Volume= 0.137 af
Routed to Link 6L : POST-DEV

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 582.89' @ 12.25 hrs Surf.Area= 4,189 sf Storage= 2,838 cf

Plug-Flow detention time= 99.5 min calculated for 0.137 af (97% of inflow)
Center-of-Mass det. time= 88.1 min (827.6 - 739.6)

Volume	Invert	Avail.Storage	Storage Description
#1	582.00'	23,725 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

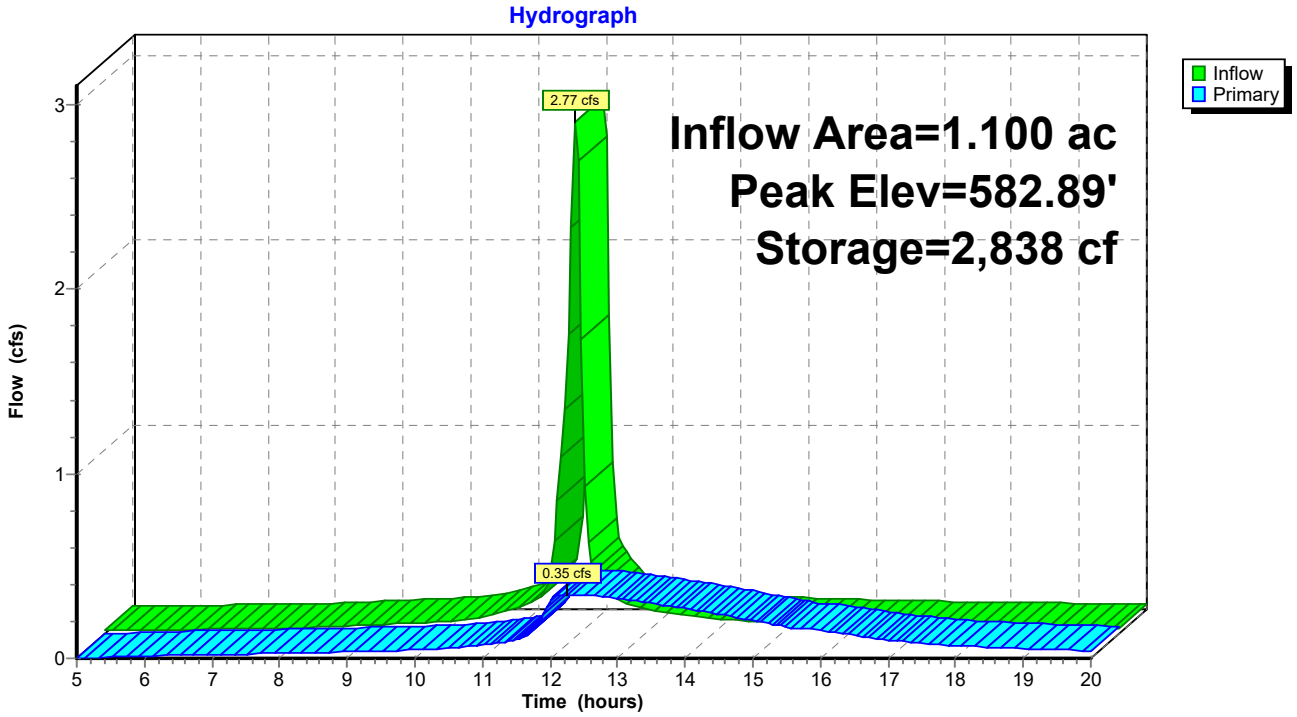
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
582.00	2,189	0	0
583.00	4,436	3,313	3,313
584.00	5,288	4,862	8,175
585.00	7,988	6,638	14,813
586.00	9,837	8,913	23,725

Device	Routing	Invert	Outlet Devices
#1	Primary	581.76'	**12.0" Round Culvert** L= 26.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.76' / 581.66' S= 0.0038 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#2	Device 1	581.90'	**4.0" Round Culvert** L= 10.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.90' / 581.86' S= 0.0040 '/' Cc= 0.900 n= 0.013, Flow Area= 0.09 sf
#3	Device 1	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.35 cfs @ 12.25 hrs HW=582.89' (Free Discharge)
└**1=Culvert** (Passes 0.35 cfs of 2.41 cfs potential flow)
└**2=Culvert** (Barrel Controls 0.35 cfs @ 3.96 fps)
└**3=Orifice/Grate** (Controls 0.00 cfs)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Pond 4P: DETENTION BASIN



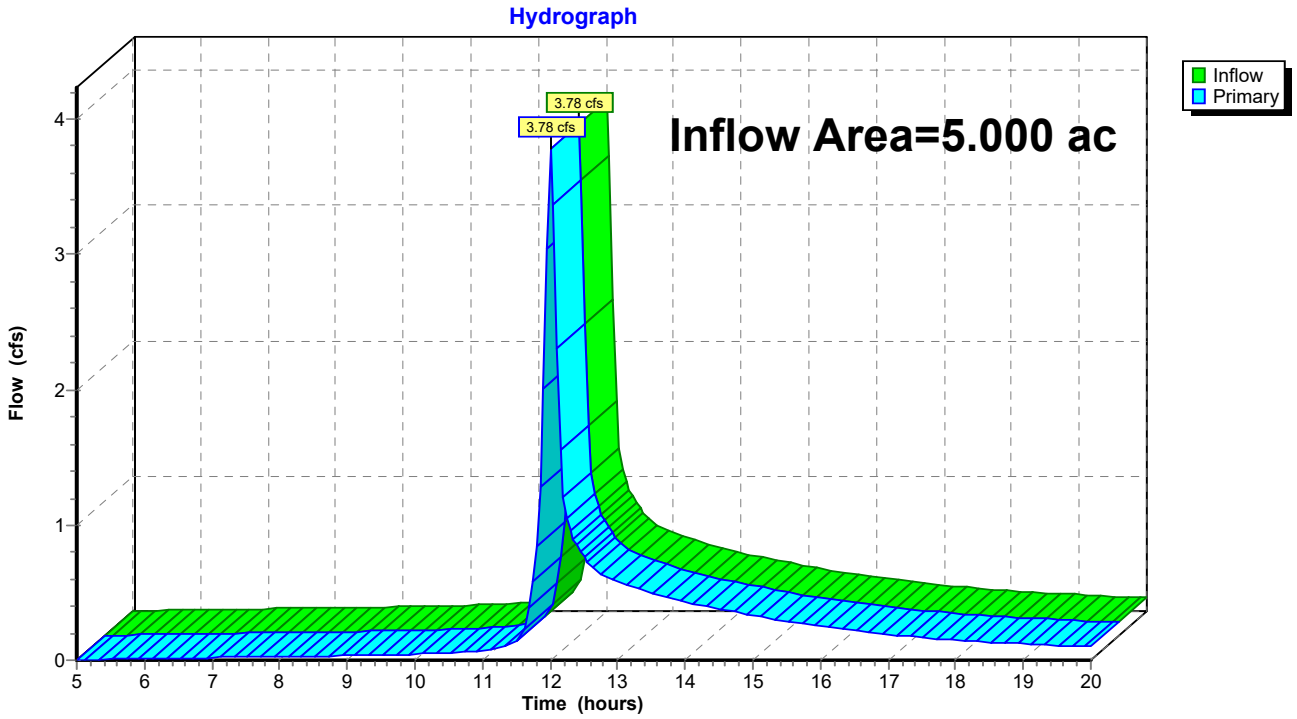
Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Link 6L: POST-DEV

Inflow Area = 5.000 ac, 22.20% Impervious, Inflow Depth > 0.72" for 1-YEAR event
Inflow = 3.78 cfs @ 12.01 hrs, Volume= 0.302 af
Primary = 3.78 cfs @ 12.01 hrs, Volume= 0.302 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 6L: POST-DEV



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment3S: Runoff Area=1.100 ac 98.18% Impervious Runoff Depth>2.84"
Flow Length=45' Slope=0.0200 '/' Tc=6.0 min CN=98 Runoff=4.99 cfs 0.260 af

Subcatchment5S: Runoff Area=3.900 ac 0.77% Impervious Runoff Depth>1.49"
Flow Length=225' Tc=8.3 min CN=82 Runoff=10.22 cfs 0.484 af

Pond 4P: DETENTION BASIN Peak Elev=583.47' Storage=5,515 cf Inflow=4.99 cfs 0.260 af
Outflow=0.47 cfs 0.249 af

Link 6L: POST-DEV Inflow=10.65 cfs 0.733 af
Primary=10.65 cfs 0.733 af

Total Runoff Area = 5.000 ac Runoff Volume = 0.743 af Average Runoff Depth = 1.78"
77.80% Pervious = 3.890 ac 22.20% Impervious = 1.110 ac

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 3S: POST-DEV-CONTROLLED

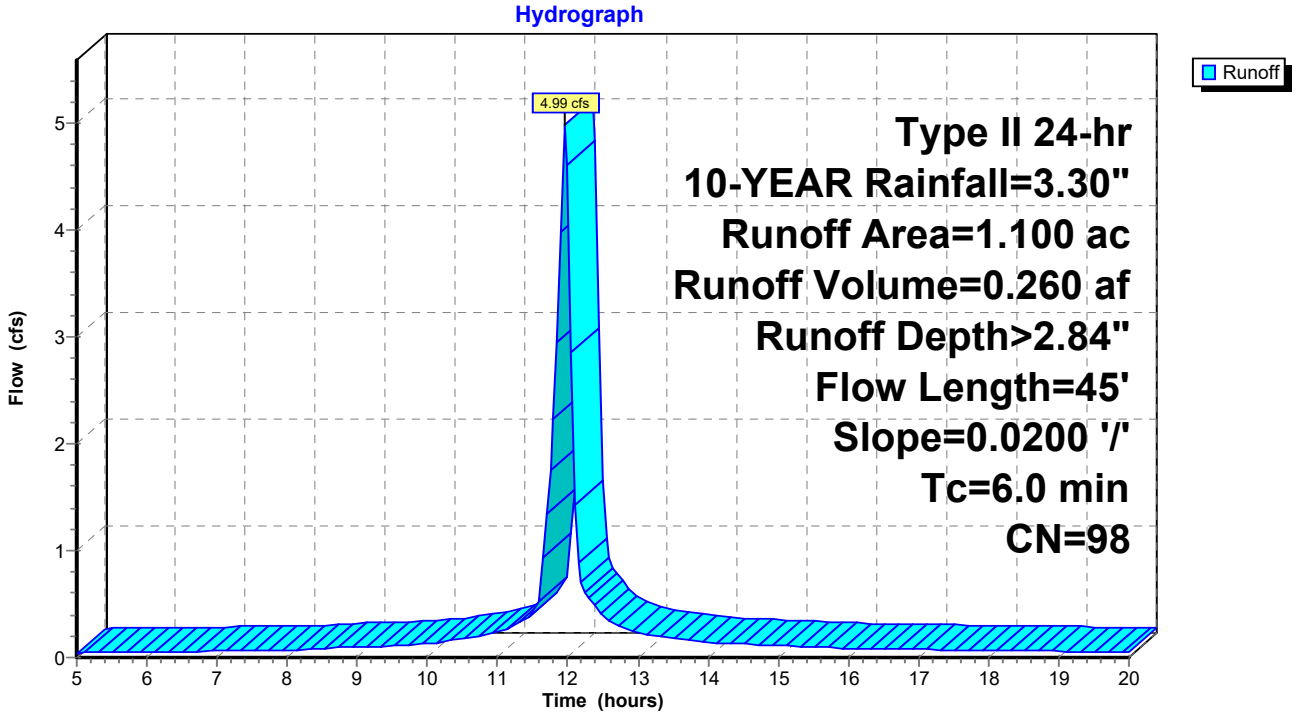
Runoff = 4.99 cfs @ 11.96 hrs, Volume= 0.260 af, Depth> 2.84"
Routed to Pond 4P : DETENTION BASIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-YEAR Rainfall=3.30"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.330	98	Roofs, HSG D
0.020	80	>75% Grass cover, Good, HSG D
0.180	98	Water Surface, HSG D
1.100	98	Weighted Average
0.020		1.82% Pervious Area
1.080		98.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	45	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"

Subcatchment 3S: POST-DEV-CONTROLLED



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 5S: POST-DEV-UNCONTROLLED

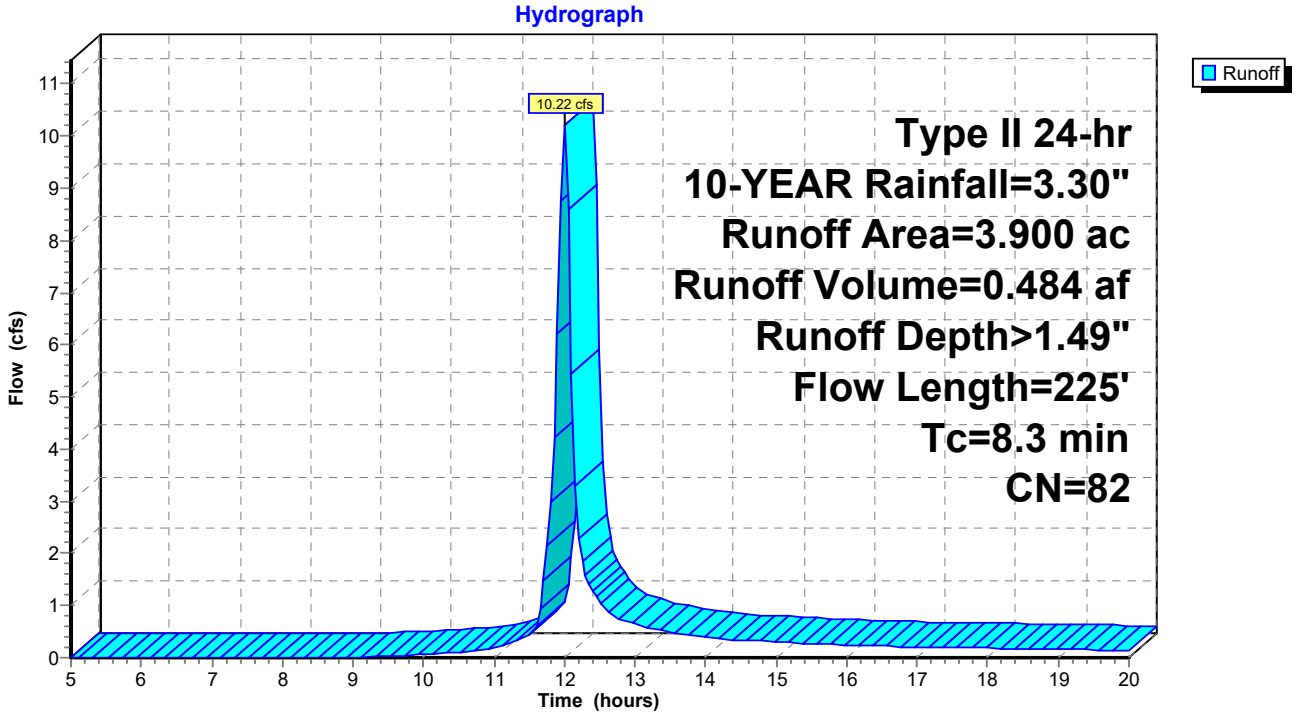
Runoff = 10.22 cfs @ 12.00 hrs, Volume= 0.484 af, Depth> 1.49"
Routed to Link 6L : POST-DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-YEAR Rainfall=3.30"

Area (ac)	CN	Description
2.810	83	Woods, Poor, HSG D
1.060	80	>75% Grass cover, Good, HSG D
0.030	98	Paved parking, HSG D
3.900	82	Weighted Average
3.870		99.23% Pervious Area
0.030		0.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	50	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
8.3	225	Total			

Subcatchment 5S: POST-DEV-UNCONTROLLED



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Pond 4P: DETENTION BASIN

[82] Warning: Early inflow requires earlier time span
[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 1.100 ac, 98.18% Impervious, Inflow Depth > 2.84" for 10-YEAR event
Inflow = 4.99 cfs @ 11.96 hrs, Volume= 0.260 af
Outflow = 0.47 cfs @ 12.41 hrs, Volume= 0.249 af, Atten= 91%, Lag= 26.8 min
Primary = 0.47 cfs @ 12.41 hrs, Volume= 0.249 af
Routed to Link 6L : POST-DEV

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 583.47' @ 12.41 hrs Surf.Area= 4,841 sf Storage= 5,515 cf

Plug-Flow detention time= 132.8 min calculated for 0.248 af (96% of inflow)
Center-of-Mass det. time= 115.7 min (848.7 - 732.9)

Volume	Invert	Avail.Storage	Storage Description
#1	582.00'	23,725 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

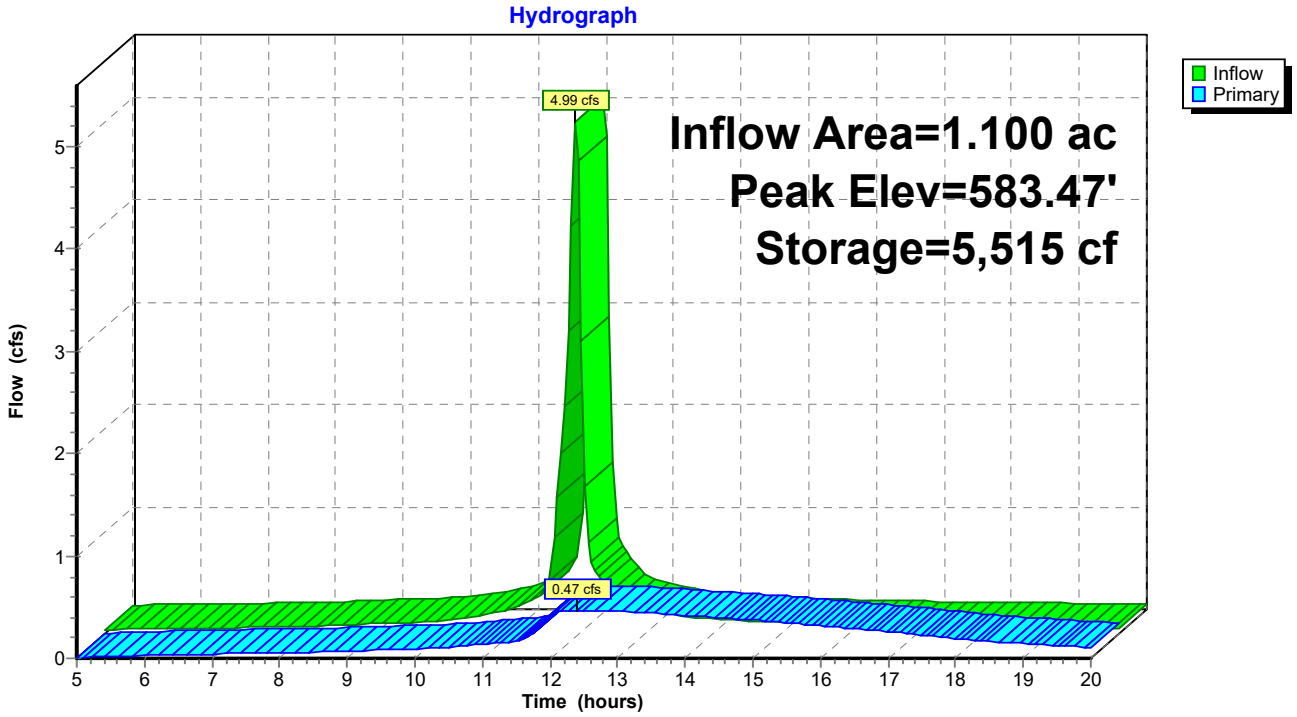
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
582.00	2,189	0	0
583.00	4,436	3,313	3,313
584.00	5,288	4,862	8,175
585.00	7,988	6,638	14,813
586.00	9,837	8,913	23,725

Device	Routing	Invert	Outlet Devices
#1	Primary	581.76'	**12.0" Round Culvert** L= 26.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.76' / 581.66' S= 0.0038 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#2	Device 1	581.90'	**4.0" Round Culvert** L= 10.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.90' / 581.86' S= 0.0040 '/' Cc= 0.900 n= 0.013, Flow Area= 0.09 sf
#3	Device 1	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.47 cfs @ 12.41 hrs HW=583.47' (Free Discharge)
└**1=Culvert** (Passes 0.47 cfs of 3.74 cfs potential flow)
└**2=Culvert** (Barrel Controls 0.47 cfs @ 5.37 fps)
└**3=Orifice/Grate** (Controls 0.00 cfs)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Pond 4P: DETENTION BASIN



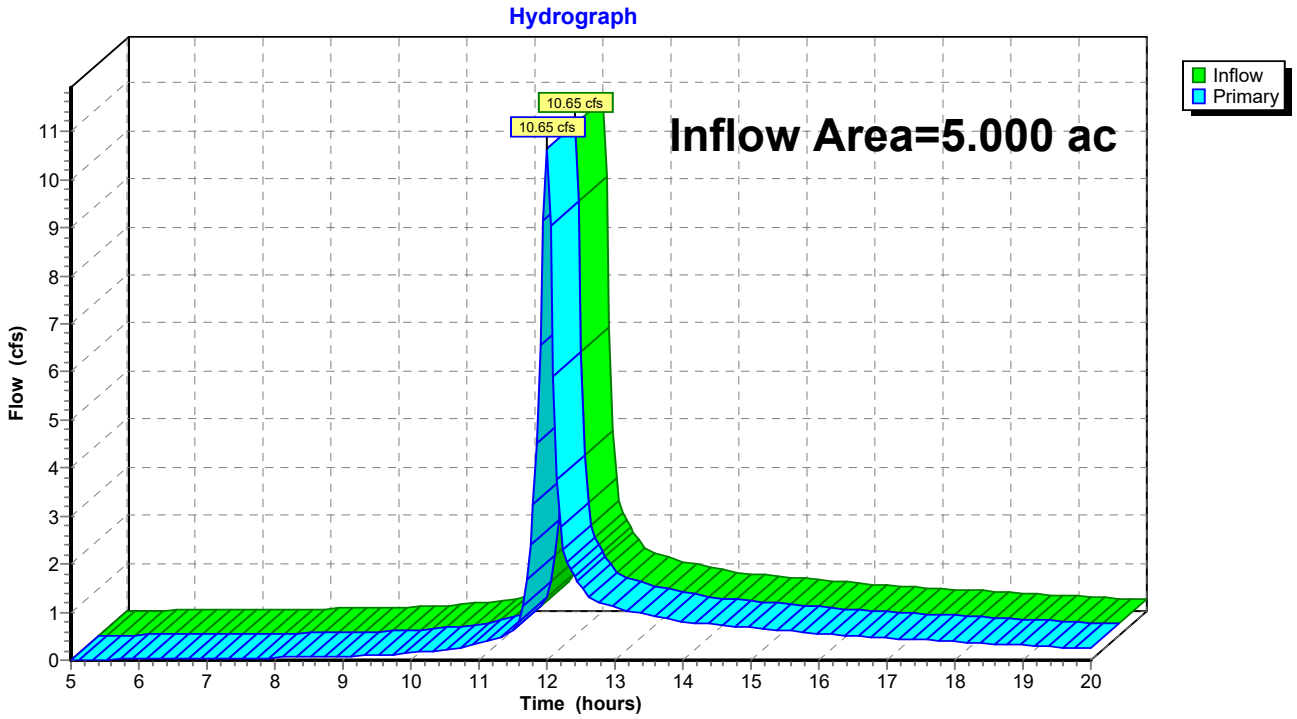
Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Link 6L: POST-DEV

Inflow Area = 5.000 ac, 22.20% Impervious, Inflow Depth > 1.76" for 10-YEAR event
Inflow = 10.65 cfs @ 12.00 hrs, Volume= 0.733 af
Primary = 10.65 cfs @ 12.00 hrs, Volume= 0.733 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 6L: POST-DEV



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment3S: Runoff Area=1.100 ac 98.18% Impervious Runoff Depth>3.43"
Flow Length=45' Slope=0.0200 '/' Tc=6.0 min CN=98 Runoff=6.01 cfs 0.315 af

Subcatchment5S: Runoff Area=3.900 ac 0.77% Impervious Runoff Depth>2.00"
Flow Length=225' Tc=8.3 min CN=82 Runoff=13.64 cfs 0.651 af

Pond 4P: DETENTION BASIN Peak Elev=583.74' Storage=6,808 cf Inflow=6.01 cfs 0.315 af
Outflow=0.51 cfs 0.297 af

Link 6L: POST-DEV Inflow=14.10 cfs 0.948 af
Primary=14.10 cfs 0.948 af

Total Runoff Area = 5.000 ac Runoff Volume = 0.966 af Average Runoff Depth = 2.32"
77.80% Pervious = 3.890 ac 22.20% Impervious = 1.110 ac

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 3S: POST-DEV-CONTROLLED

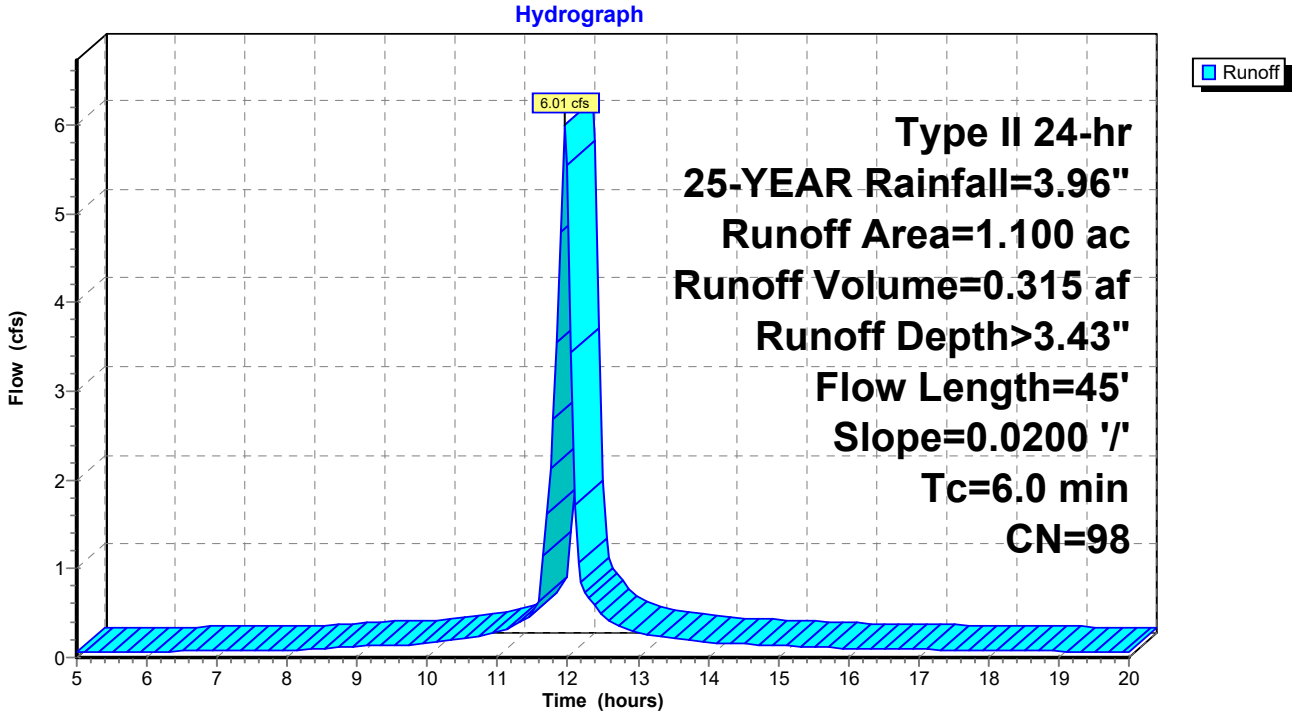
Runoff = 6.01 cfs @ 11.96 hrs, Volume= 0.315 af, Depth> 3.43"
Routed to Pond 4P : DETENTION BASIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-YEAR Rainfall=3.96"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.330	98	Roofs, HSG D
0.020	80	>75% Grass cover, Good, HSG D
0.180	98	Water Surface, HSG D
1.100	98	Weighted Average
0.020		1.82% Pervious Area
1.080		98.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	45	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"

Subcatchment 3S: POST-DEV-CONTROLLED



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 5S: POST-DEV-UNCONTROLLED

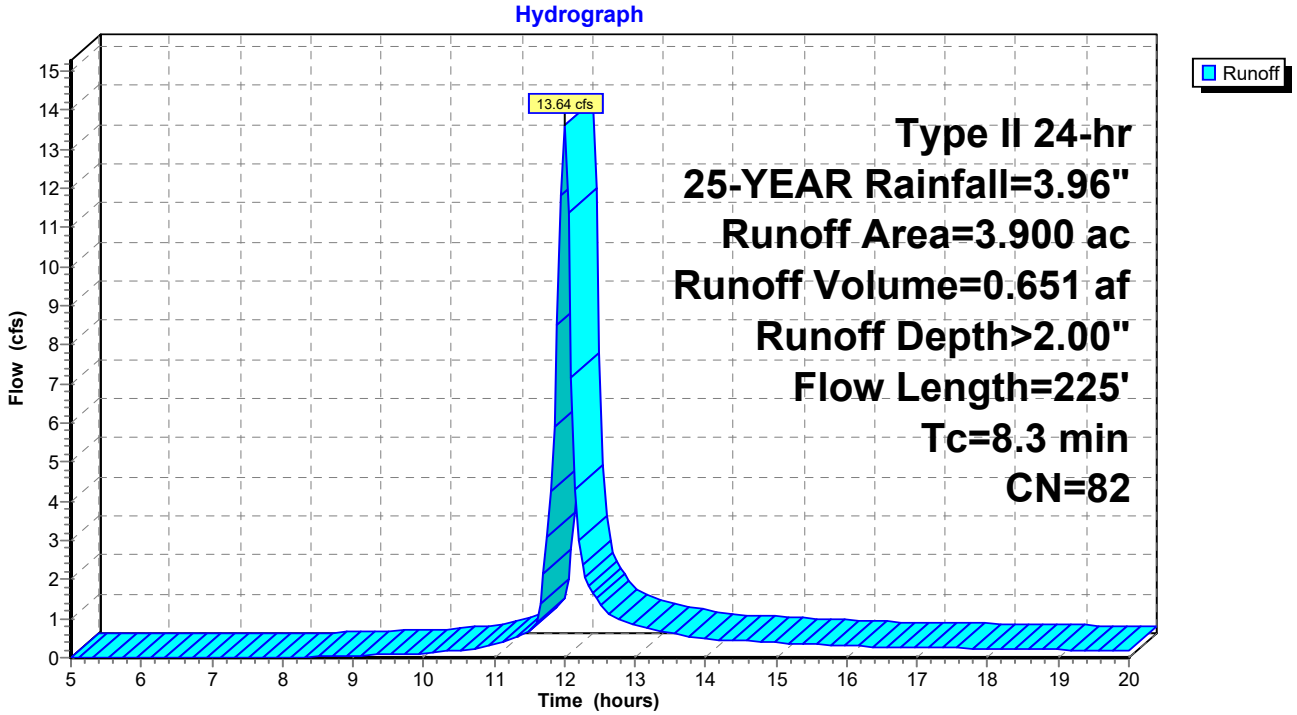
Runoff = 13.64 cfs @ 12.00 hrs, Volume= 0.651 af, Depth> 2.00"
Routed to Link 6L : POST-DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-YEAR Rainfall=3.96"

Area (ac)	CN	Description
2.810	83	Woods, Poor, HSG D
1.060	80	>75% Grass cover, Good, HSG D
0.030	98	Paved parking, HSG D
3.900	82	Weighted Average
3.870		99.23% Pervious Area
0.030		0.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	50	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
8.3	225	Total			

Subcatchment 5S: POST-DEV-UNCONTROLLED



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Pond 4P: DETENTION BASIN

[82] Warning: Early inflow requires earlier time span
[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 1.100 ac, 98.18% Impervious, Inflow Depth > 3.43" for 25-YEAR event
Inflow = 6.01 cfs @ 11.96 hrs, Volume= 0.315 af
Outflow = 0.51 cfs @ 12.46 hrs, Volume= 0.297 af, Atten= 91%, Lag= 29.8 min
Primary = 0.51 cfs @ 12.46 hrs, Volume= 0.297 af
Routed to Link 6L : POST-DEV

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 583.74' @ 12.46 hrs Surf.Area= 5,063 sf Storage= 6,808 cf

Plug-Flow detention time= 147.1 min calculated for 0.296 af (94% of inflow)
Center-of-Mass det. time= 124.6 min (856.1 - 731.5)

Volume	Invert	Avail.Storage	Storage Description
#1	582.00'	23,725 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

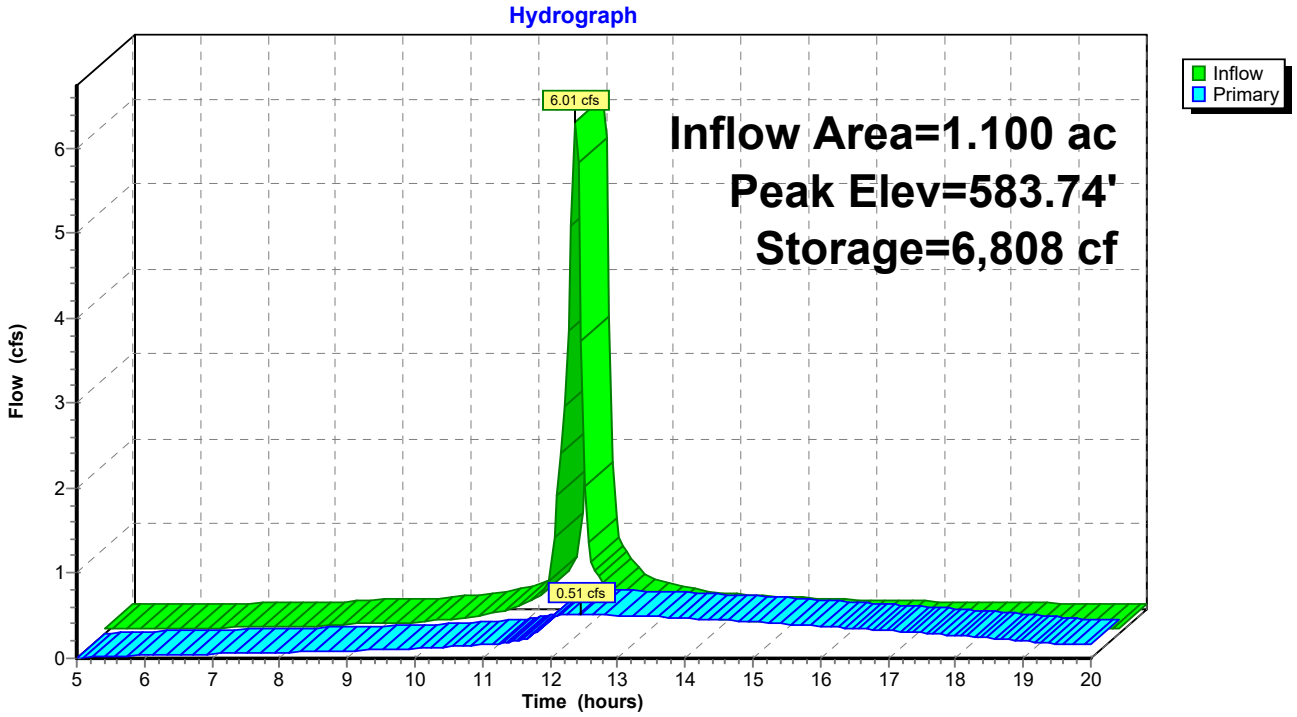
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
582.00	2,189	0	0
583.00	4,436	3,313	3,313
584.00	5,288	4,862	8,175
585.00	7,988	6,638	14,813
586.00	9,837	8,913	23,725

Device	Routing	Invert	Outlet Devices
#1	Primary	581.76'	**12.0" Round Culvert** L= 26.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.76' / 581.66' S= 0.0038 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#2	Device 1	581.90'	**4.0" Round Culvert** L= 10.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.90' / 581.86' S= 0.0040 '/' Cc= 0.900 n= 0.013, Flow Area= 0.09 sf
#3	Device 1	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.51 cfs @ 12.46 hrs HW=583.74' (Free Discharge)
└**1=Culvert** (Passes 0.51 cfs of 4.30 cfs potential flow)
└**2=Culvert** (Barrel Controls 0.51 cfs @ 5.90 fps)
└**3=Orifice/Grate** (Controls 0.00 cfs)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Pond 4P: DETENTION BASIN



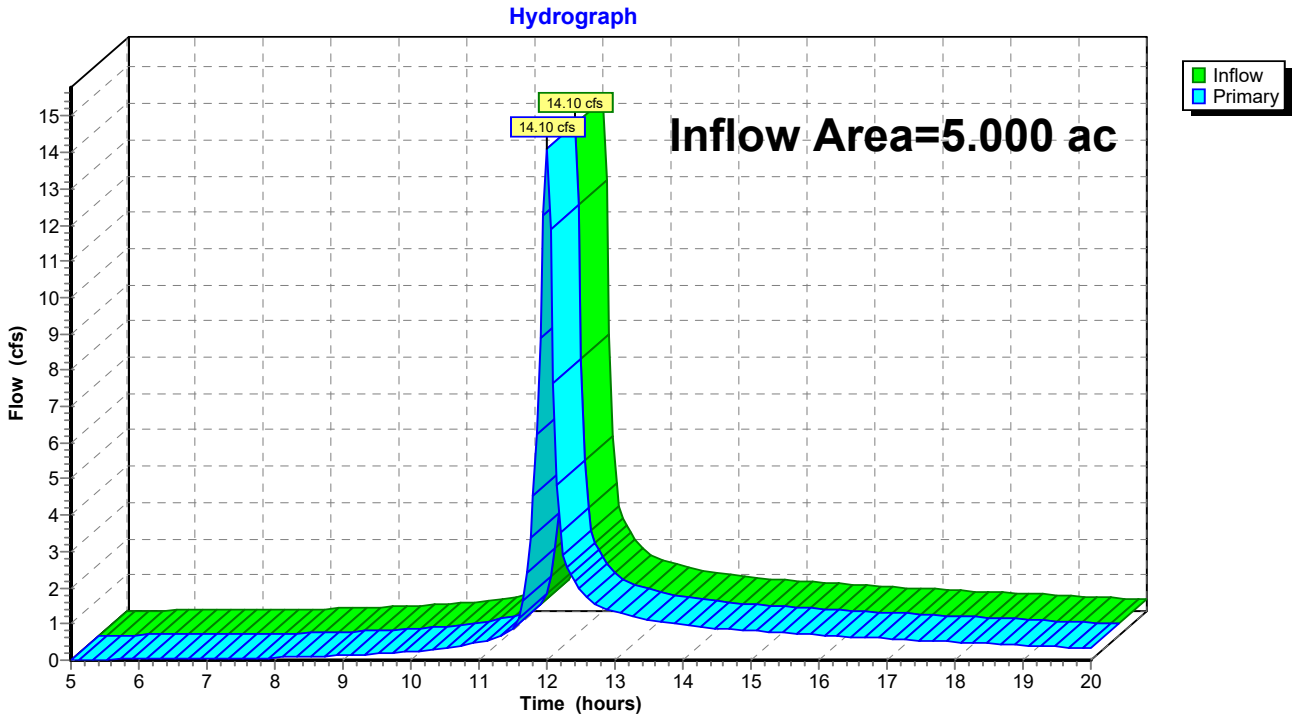
Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Link 6L: POST-DEV

Inflow Area = 5.000 ac, 22.20% Impervious, Inflow Depth > 2.28" for 25-YEAR event
Inflow = 14.10 cfs @ 12.00 hrs, Volume= 0.948 af
Primary = 14.10 cfs @ 12.00 hrs, Volume= 0.948 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 6L: POST-DEV



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment3S: Runoff Area=1.100 ac 98.18% Impervious Runoff Depth>4.36"
Flow Length=45' Slope=0.0200 '/' Tc=6.0 min CN=98 Runoff=7.60 cfs 0.400 af

Subcatchment5S: Runoff Area=3.900 ac 0.77% Impervious Runoff Depth>2.85"
Flow Length=225' Tc=8.3 min CN=82 Runoff=19.11 cfs 0.927 af

Pond 4P: DETENTION BASIN Peak Elev=584.09' Storage=8,637 cf Inflow=7.60 cfs 0.400 af
Outflow=0.82 cfs 0.368 af

Link 6L: POST-DEV Inflow=19.63 cfs 1.294 af
Primary=19.63 cfs 1.294 af

Total Runoff Area = 5.000 ac Runoff Volume = 1.326 af Average Runoff Depth = 3.18"
77.80% Pervious = 3.890 ac 22.20% Impervious = 1.110 ac

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 3S: POST-DEV-CONTROLLED

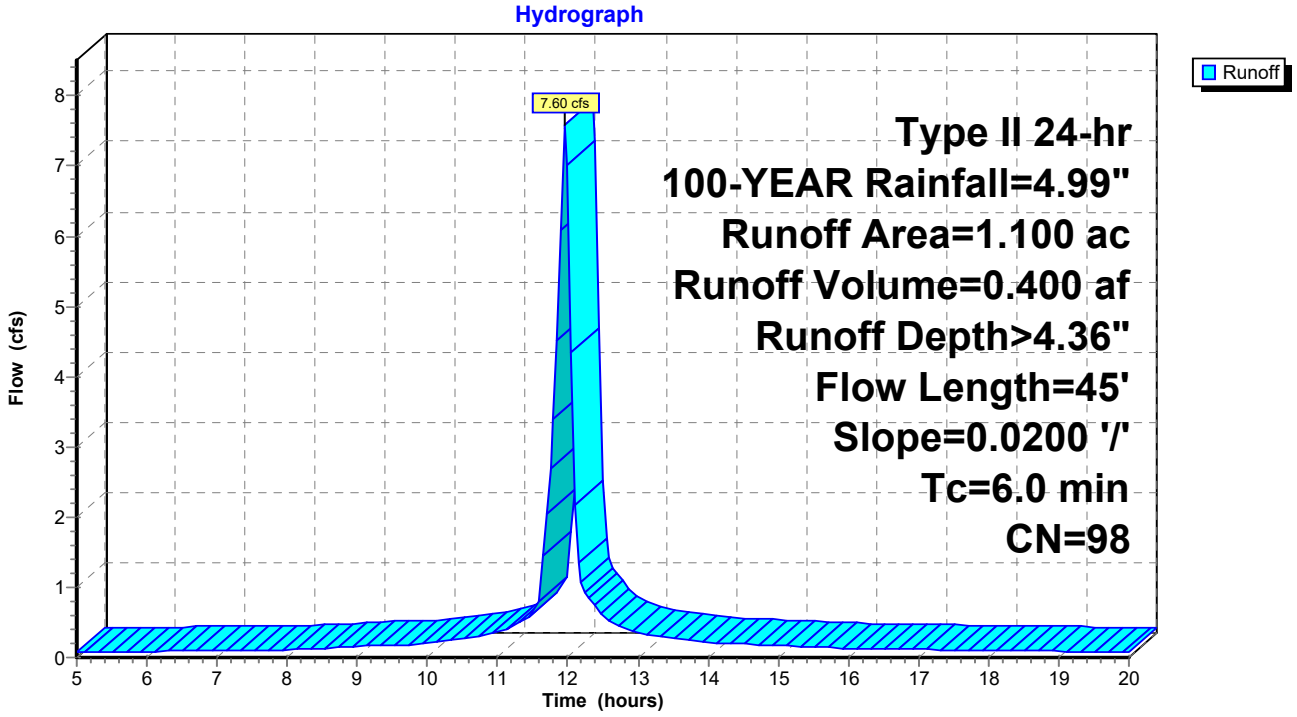
Runoff = 7.60 cfs @ 11.96 hrs, Volume= 0.400 af, Depth> 4.36"
Routed to Pond 4P : DETENTION BASIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-YEAR Rainfall=4.99"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.330	98	Roofs, HSG D
0.020	80	>75% Grass cover, Good, HSG D
0.180	98	Water Surface, HSG D
1.100	98	Weighted Average
0.020		1.82% Pervious Area
1.080		98.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	45	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"

Subcatchment 3S: POST-DEV-CONTROLLED



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Subcatchment 5S: POST-DEV-UNCONTROLLED

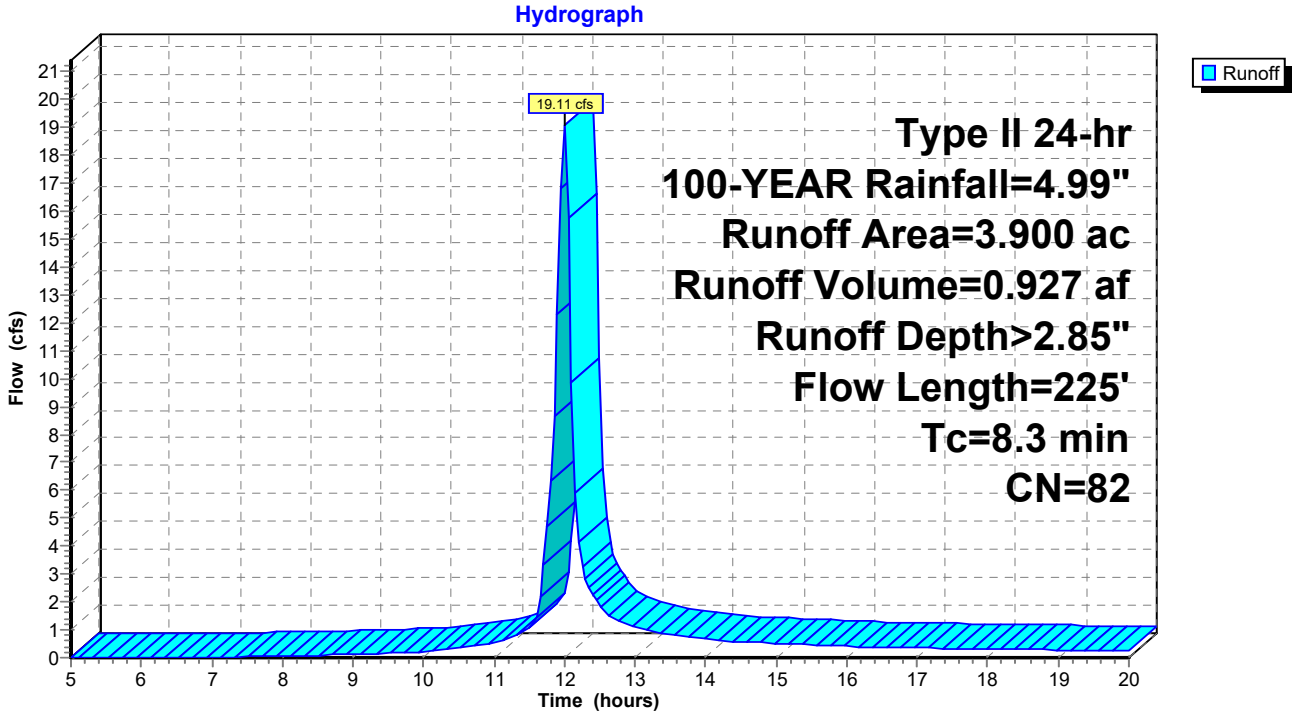
Runoff = 19.11 cfs @ 12.00 hrs, Volume= 0.927 af, Depth> 2.85"
Routed to Link 6L : POST-DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-YEAR Rainfall=4.99"

Area (ac)	CN	Description
2.810	83	Woods, Poor, HSG D
1.060	80	>75% Grass cover, Good, HSG D
0.030	98	Paved parking, HSG D
3.900	82	Weighted Average
3.870		99.23% Pervious Area
0.030		0.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	50	0.0200	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.40"
1.8	175	0.0100	1.61		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
8.3	225	Total			

Subcatchment 5S: POST-DEV-UNCONTROLLED



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Pond 4P: DETENTION BASIN

[82] Warning: Early inflow requires earlier time span
[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 1.100 ac, 98.18% Impervious, Inflow Depth > 4.36" for 100-YEAR event
Inflow = 7.60 cfs @ 11.96 hrs, Volume= 0.400 af
Outflow = 0.82 cfs @ 12.33 hrs, Volume= 0.368 af, Atten= 89%, Lag= 21.9 min
Primary = 0.82 cfs @ 12.33 hrs, Volume= 0.368 af
Routed to Link 6L : POST-DEV

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 584.09' @ 12.33 hrs Surf.Area= 5,519 sf Storage= 8,637 cf

Plug-Flow detention time= 158.1 min calculated for 0.366 af (92% of inflow)
Center-of-Mass det. time= 128.1 min (858.1 - 730.1)

Volume	Invert	Avail.Storage	Storage Description
#1	582.00'	23,725 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

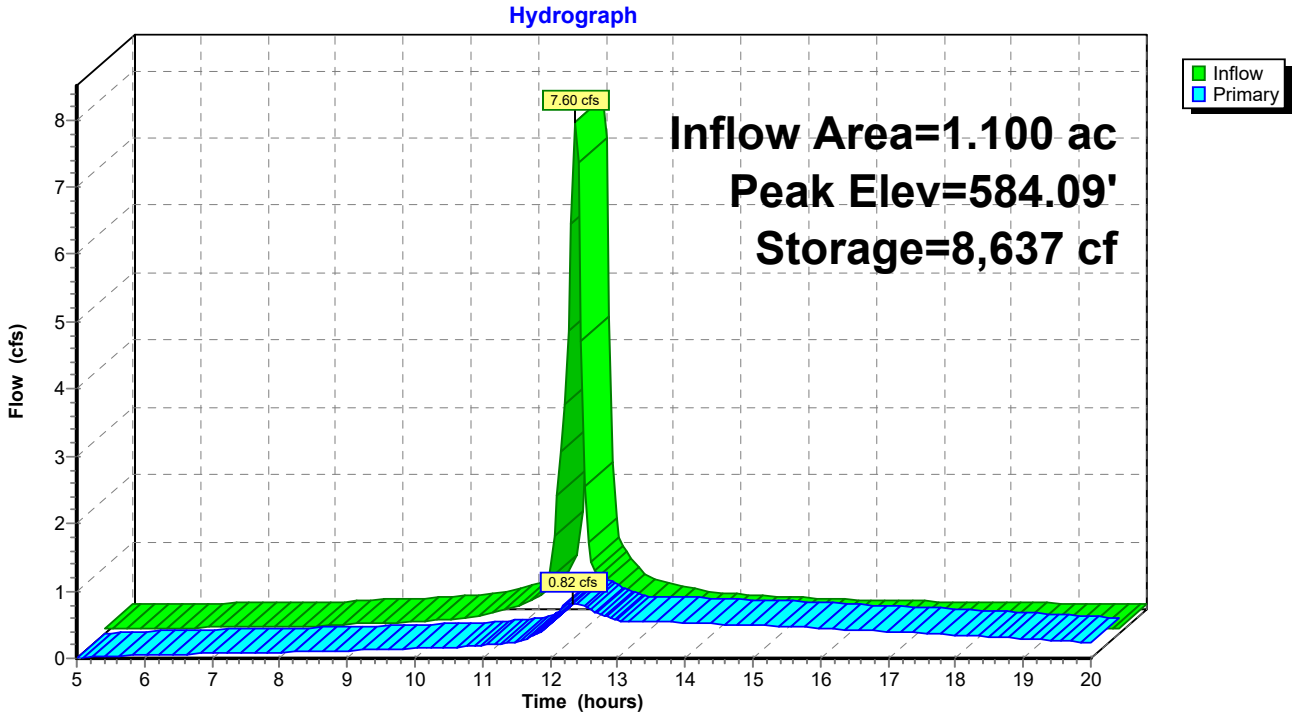
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
582.00	2,189	0	0
583.00	4,436	3,313	3,313
584.00	5,288	4,862	8,175
585.00	7,988	6,638	14,813
586.00	9,837	8,913	23,725

Device	Routing	Invert	Outlet Devices
#1	Primary	581.76'	**12.0" Round Culvert** L= 26.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.76' / 581.66' S= 0.0038 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#2	Device 1	581.90'	**4.0" Round Culvert** L= 10.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 581.90' / 581.86' S= 0.0040 '/' Cc= 0.900 n= 0.013, Flow Area= 0.09 sf
#3	Device 1	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.81 cfs @ 12.33 hrs HW=584.09' (Free Discharge)
└**1=Culvert** (Passes 0.81 cfs of 4.94 cfs potential flow)
└**2=Culvert** (Barrel Controls 0.57 cfs @ 6.53 fps)
└**3=Orifice/Grate** (Orifice Controls 0.24 cfs @ 0.94 fps)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Pond 4P: DETENTION BASIN



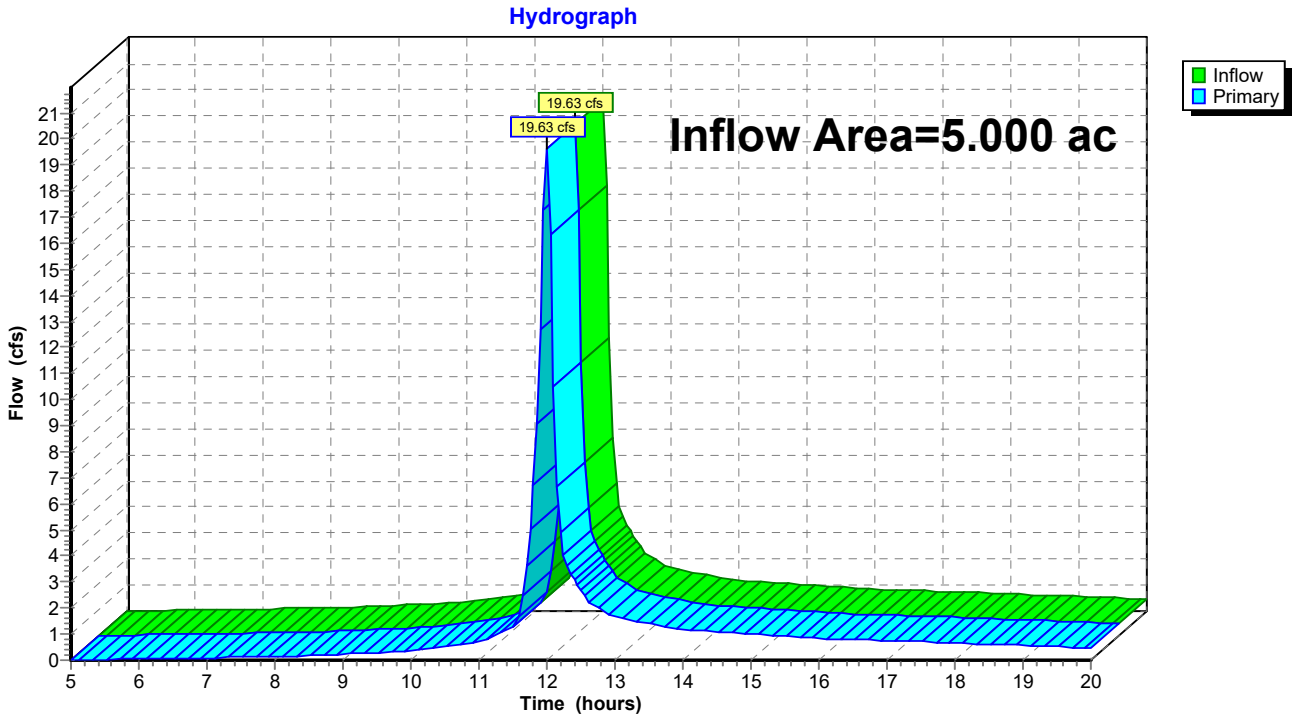
Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Summary for Link 6L: POST-DEV

Inflow Area = 5.000 ac, 22.20% Impervious, Inflow Depth > 3.11" for 100-YEAR event
Inflow = 19.63 cfs @ 12.00 hrs, Volume= 1.294 af
Primary = 19.63 cfs @ 12.00 hrs, Volume= 1.294 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 6L: POST-DEV



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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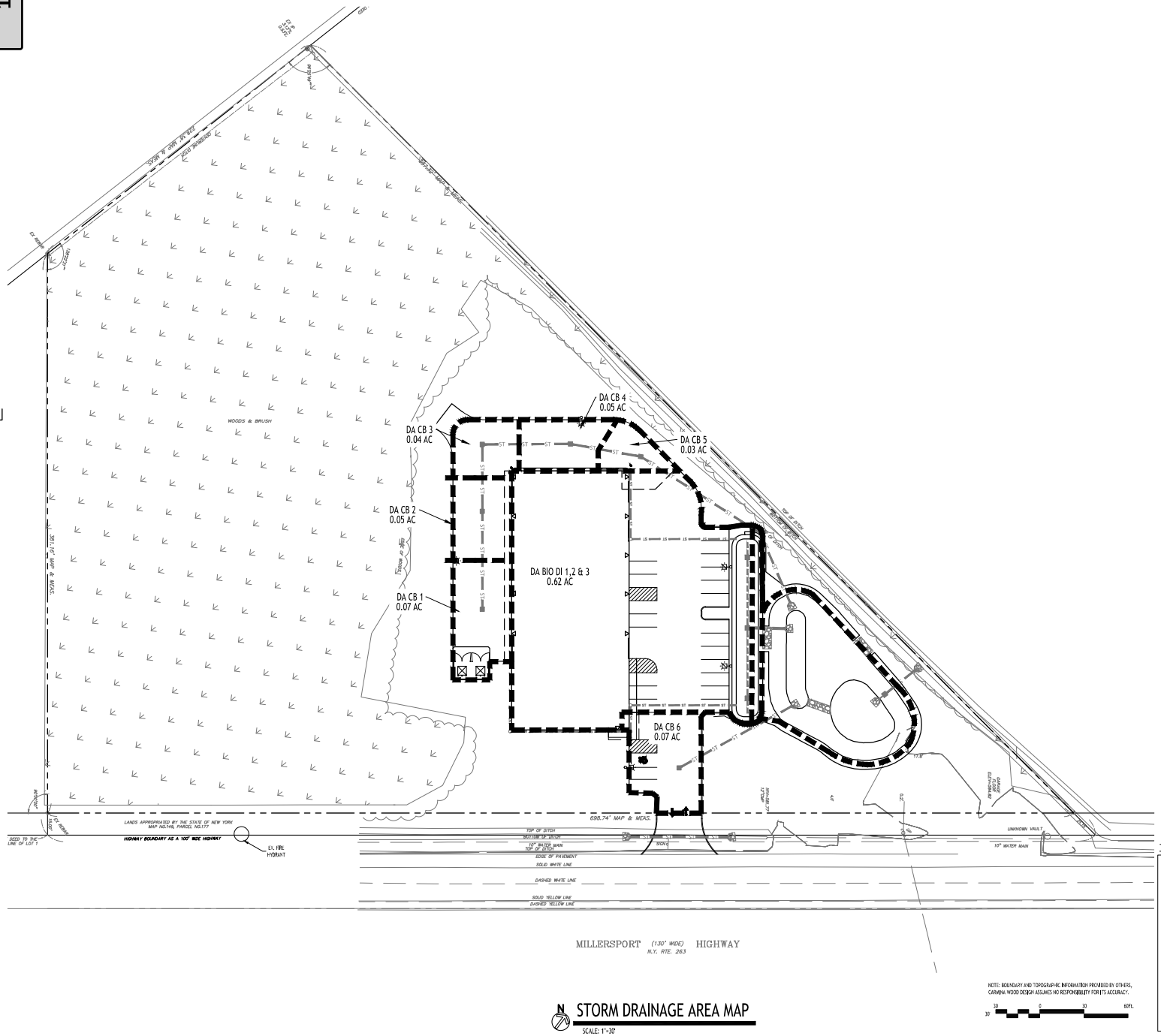


STORM DRAINAGE AREA MAP
SCALE: 1"=30'

TOWN OF AMHERST APPROVAL BOX:

CARMINA WOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:		
No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/01/2025

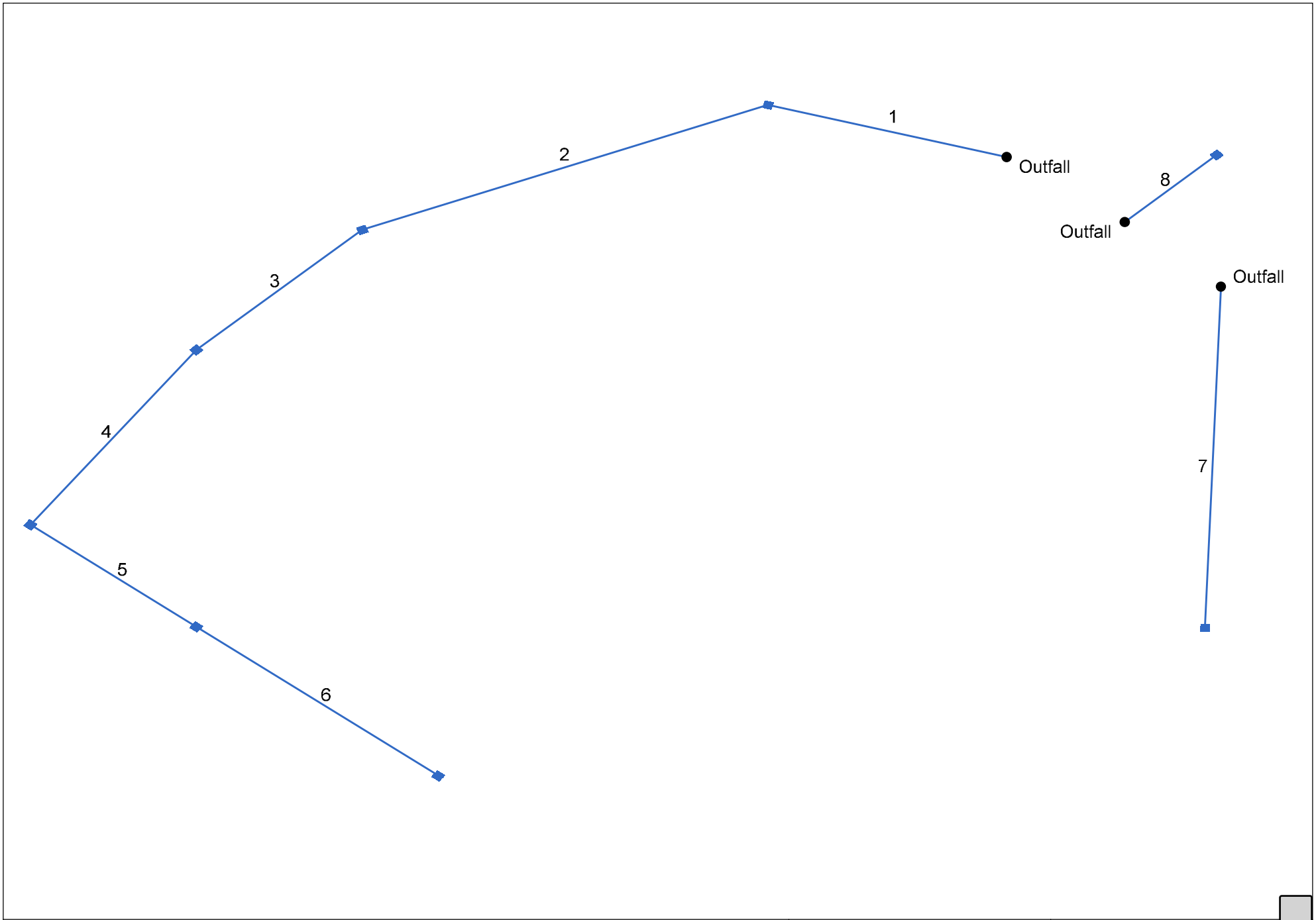
DRAWING NAME:
Storm Drainage Area Map

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-3

Project No: 24.4019

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Project File: New.stm	Number of lines: 8	Date: 3/16/2025

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	54.017	0.00	0.24	0.00	0.00	0.18	0.0	10.7	5.9	1.06	2.88	2.51	12	0.56	582.00	582.30	582.72	582.73	583.05	586.00	Pipe - (62)
2	1	94.835	0.03	0.24	0.75	0.02	0.18	5.0	9.7	6.1	1.10	2.57	3.14	12	0.44	582.30	582.72	582.76	583.18	586.00	586.94	Pipe - (54)
3	2	48.697	0.05	0.21	0.75	0.04	0.16	5.0	9.2	6.2	0.98	2.41	2.55	12	0.39	582.72	582.91	583.27	583.35	586.94	586.67	Pipe - (53)
4	3	60.001	0.04	0.16	0.75	0.03	0.12	5.0	8.2	6.4	0.77	2.44	2.38	12	0.40	582.91	583.15	583.42	583.53	586.67	586.52	Pipe - (52)
5	4	45.631	0.05	0.12	0.75	0.04	0.09	5.0	7.3	6.6	0.60	2.42	1.64	12	0.39	583.15	583.33	583.72	583.74	586.52	586.60	Pipe - (51)
6	5	66.667	0.07	0.07	0.75	0.05	0.05	5.0	5.0	7.2	0.38	2.46	1.71	12	0.40	583.33	583.60	583.77	583.87	586.60	586.60	Pipe - (50)
7	End	93.343	0.07	0.07	0.75	0.05	0.05	5.0	5.0	7.2	0.38	3.34	1.57	12	0.75	582.17	582.87	582.80	583.12	583.22	585.87	Pipe - (55)
8	End	27.038	0.62	0.62	0.75	0.47	0.47	5.0	5.0	7.2	3.37	7.26	2.56	18	0.41	581.50	581.61	582.60	582.61	583.05	585.50	Pipe - (58)

Project File: New.stm | Number of lines: 8 | Run Date: 3/16/2025

NOTES:Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83; Return period =Yrs. 10 ; c = cir e = ellip b = box

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Green Infrastructure & Water Quality Calculations

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

WATER QUALITY REQUIRED FOR PROPOSED DEVELOPMENT AREA Area, Acres = 1.1
(Note: Reference Chap. 9 NYSDEC Stormwater Design Manual)

"Redevelopment Activity", Acres = 0.25 "New development", Acres = 0.85
(existing, disturbed impervious area)

Total proposed impervious, Acres = 0.89 Adjusted impervious, Acres = 0.70
"New" impervious, Acres = 0.64 (25% redevelopment, 100% new development)

Water Quality Volume (WQv) WQv=P*R*A/12

Where:	P=90% Rainfall Event Number	P= 1
	Rv= 0.05+0.009*(I)	Rv= 0.62
	IC=Impervious Cover, Acres	IC= 0.70
	I=Impervious Cover (%)	I= 64
	A=Runoff Area, Acres	A= 1.1

WQv (ac-ft)= 0.057
WQv (cf)= 2487

Note: Although Runoff Reduction Volume (RRv) sizing criteria is not required for "Redevelopment Activity", the attached Bioretention Worksheet for RRv sizing is for both "New Development" and "Redevelopment"

RRv PROVIDED FOR PROPOSED DEVELOPMENT AREA (See NYSDEC worksheets)

		WQv, cf	RRv, cf
Min. RRv Req'd, cf = 483	RRv, Bioretention Area	1,740	747
Min. RRv Req'd, ac-ft = 0.011			
	TOTAL, cf	1740	747
	TOTAL, ac-ft	0.040	0.017

WQ & RR SUMMARY (ac-ft):

TOTAL WATER QUALITY PROVIDED FOR PROPOSED DEVELOPMENT AREA 0.040

IS WATER QUALITY VOLUME REQUIREMENT MET? No
(WQv provided equal to or greater than WQv required)

IS RUNOFF REDUCTION VOLUME REQUIREMENT MET? Yes
(RRv provided equal to or greater than Min. RRv required)

Date 07/01/25

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Yes No

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Version 1.6
Last Updated: 03/28/2014

Total Water Quality Volume Calculation
WQv(acre-feet) = [(P)(Rv)(A)] /12

Is this project subject to Chapter 10 of the NYS Design Manual (i.e. WQv is equal to post-development 1 year runoff volume)?.....		
Design Point:		
P=	1.00	*inch*

Breakdown of Subcatchments

Catchment Number	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	Description
1	0.64	0.57	89%	0.85	1,978	Bioretention
2	0.46	0.13	28%	0.30	508	
3						
4						
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	1.10	0.70	64%	0.62	**2,487**	**Subtotal 1**
Total	1.10	0.70	64%	0.62	**2,487**	**Initial WQv**

Identify Runoff Reduction Techniques By Area

Technique	Total Contributing Area *(Acre)*	Contributing Impervious Area *(Acre)*	Notes
Conservation of Natural Areas	0.00	0.00	*minimum 10,000 sf*
Riparian Buffers	0.00	0.00	*maximum contributing length 75 feet to 150 feet*
Filter Strips	0.00	0.00	
Tree Planting	0.00	0.00	*Up to 100 sf directly connected impervious area may be subtracted per tree*
Total	**0.00**	**0.00**	

Recalculate WQv after application of Area Reduction Techniques

	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Runoff Coefficient Rv	WQv *(ft^3)*
"<<Initial WQv"	1.10	0.70	64%	0.62	2,487
Subtract Area	0.00	0.00			
WQv adjusted after Area Reductions	**1.10**	**0.70**	64%	0.62	2,487
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	1.10	0.70	64%	0.62	**2,487**

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Version 1.6
Last Updated: 03/28/2014

Total Water Quality Volume Calculation
WQv(acre-feet) = [(P)(Rv)(A)] /12

WQv reduced by Area Reduction techniques					0

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Runoff Reduction Volume and Treated volumes						
	Runoff Reduction Techiques/Standard SMPs		**Total Contributing Area**	**Total Contributing Impervious Area**	**WQv Reduced (RRv)**	**WQv Treated**
			(acres)	**(acres)**	**cf**	**cf**
Area/Volume Reduction	Conservation of Natural Areas	RR-1	0.00	0.00		
	Sheetflow to Riparian Buffers/Filter Strips	RR-2	0.00	0.00		
	Tree Planting/Tree Pit	RR-3	0.00	0.00		
	Disconnection of Rooftop Runoff	RR-4		0.00		
	Vegetated Swale	RR-5	0.00	0.00	0	
	Rain Garden	RR-6	0.00	0.00	0	
	Stormwater Planter	RR-7	0.00	0.00	0	
	Rain Barrel/Cistern	RR-8	0.00	0.00	0	
	Porous Pavement	RR-9	0.00	0.00	0	
	Green Roof (Intensive & Extensive)	RR-10	0.00	0.00	0	
Standard SMPs w/RRv Capacity	Infiltration Trench	I-1	0.00	0.00	0	0
	Infiltration Basin	I-2	0.00	0.00	0	0
	Dry Well	I-3	0.00	0.00	0	0
	Underground Infiltration System	I-4	0.00			
	Bioretention & Infiltration Bioretention	F-5	0.64	0.57	960	1018
	Dry swale	O-1	0.00	0.00	0	0
Standard SMPs	Micropool Extended Detention (P-1)	P-1				509.000
	Wet Pond (P-2)	P-2				
	Wet Extended Detention (P-3)	P-3				
	Multiple Pond system (P-4)	P-4				
	Pocket Pond (p-5)	P-5				
	Surface Sand filter (F-1)	F-1				
	Underground Sand filter (F-2)	F-2				
	Perimeter Sand Filter (F-3)	F-3				
	Organic Filter (F-4	F-4				
	Shallow Wetland (W-1)	W-1				
	Extended Detention Wetland (W-2	W-2				
	Pond/Wetland System (W-3)	W-3				
	Pocket Wetland (W-4)	W-4				
	Wet Swale (O-2)	O-2				
Totals by Area Reduction →			0.00	0.00	0	
Totals by Volume Reduction →			0.00	0.00	0	
Totals by Standard SMP w/RRV →			0.64	0.57	960	1018
Totals by Standard SMP →			0.00	0.00		509

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Totals (Area + Volume + all SMPs)	→	0.64	0.57	960	1,527
Impervious Cover √	error				
Total Area √	error				

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Minimum RRv

Enter the Soils Data for the site		
Soil Group	Acres	S
A		55%
B		40%
C		30%
D	**1.10**	20%
Total Area	1.1	

Calculate the Minimum RRv		
S =	**0.20**	
Impervious =	0.70	*acre*
Precipitation	1	*in*
Rv	0.95	
Minimum RRv	**483**	***ft3***
	0.01	af

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Bioretention Worksheet

(For use on HSG C or D Soils with underdrains)

Af=WQv*(df)/[k*(hf+df)(tf)]

Af	Required Surface Area (ft2)
WQv	Water Quality Volume (ft3)
df	Depth of the Soil Medium (feet)
hf	Average height of water above the planter bed
tf	Volume Through the Filter Media (days)

k — The hydraulic conductivity [ft/day], can be varied depending on the properties of the soil media. Some reported conductivity values are: ***Sand*** - 3.5 ft/day (City of Austin 1988); ***Peat*** - 2.0 ft/day (Galli 1990); ***Leaf Compost*** - 8.7 ft/day (Claytor and Schueler, 1996); ***Bioretention Soil*** (0.5 ft/day (Claytor &

Design Point:

Enter Site Data For Drainage Area to be Treated by Practice

Catchment Number	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	Precipitation *(in)*	Description
1	0.64	0.57	0.89	0.85	1978.35	1.00	Bioretention
Enter Impervious Area Reduced by Disconnection of Rooftops			89%	0.85	1,978	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						*ft^3*	

Soil Information

Soil Group	D		
Soil Infiltration Rate	0.00	*in/hour*	*Okay*
Using Underdrains?	Yes	*Okay*	

Calculate the Minimum Filter Area

		Value	Units	Notes
WQv		1,978	*ft^3*	
Enter Depth of Soil Media	*df*	1.5	*ft*	*2.5-4 ft*
Enter Hydraulic Conductivity	*k*	0.5	*ft/day*	
Enter Average Height of Ponding	*hf*	0.5	*ft*	*6 inches max.*
Enter Filter Time	*tf*	2	*days*	
Required Filter Area	***Af***	**1484**	***ft^2***	

Determine Actual Bio-Retention Area

Filter Width	15	*ft*	
Filter Length	120	*ft*	
Filter Area	1800	*ft^2*	
Actual Volume Provided	2400	*ft^3*	

Determine Runoff Reduction

Is the Bioretention contributing flow to another practice?	No	Select Practice	N/A
RRv	960		
RRv applied	**960**	***ft^3***	***This is 40% of the storage provided or WQv whichever is less.***
Volume Treated	1,018	*ft^3*	*This is the portion of the WQv that is not reduced in the practice.*
Volume Directed	0	*ft^3*	This volume is directed another practice

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix E

NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-25-001

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL
CONSERVATION (NYSDEC)

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP-0-25-001

Construction General Permit (CGP)

Issued Pursuant to Article 17, Titles 7, 8 and Article 70

of the Environmental Conservation Law

Effective Date: January 29, 2025 Expiration Date: January 28, 2030

Scott E. Sheeley

Chief Permit Administrator

Scott E. Sheeley JAN. 29, 2025

Authorized Signature Date

Address: NYSDEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

PREFACE

Pursuant to Section 402 of the Clean Water Act (CWA), and 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), *stormwater discharges* from certain *construction activities* are unlawful unless they are authorized by a National Pollutant Discharge Elimination System (NPDES) permit or by a state permit program. New York State administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, and Article 70, as well as 6 NYCRR Parts 621 and 750.

C*onstruction activities* constitute construction of a *point source* and, therefore, pursuant to ECL sections 17-0505, 17-0701, and 17-0803, the *owner or operator* must have coverage under a SPDES permit prior to *commencement of construction activities*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES CONSTRUCTION GENERAL PERMIT (CGP) GP-0-25-001
FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

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Part I. How to Obtain Coverage and General Requirements

To be covered under this permit, the *owner or operator* must meet all eligibility requirements in Part I.A. and follow the requirements for obtaining permit coverage in Part I.D., F., or G.

A. Eligibility Requirements

For a *common plan of development or sale*, the *phase(s)* that meet the eligibility requirements in Part I.A. may obtain coverage under this permit even if other *phase(s)* of the same *common plan of development or sale* do not meet the eligibility requirements and require an individual SPDES permit.

1. The *owner's or operator's construction activities* involve soil disturbances of:

    a. one or more acres; or

    b. less than one acre which are part of a *common plan of development or sale* that will ultimately disturb one or more acres; or

    c. less than one acre where NYSDEC has determined that a SPDES permit is required for *stormwater discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of pollutants to *surface waters of the State*.

        i. 5,000 square feet or more, but less than one acre, and are in the New York City Watershed located east of the Hudson River, Appendix C Figure 1; or

        ii. 20,000 square feet or more, but less than one acre, within the municipal boundaries of the City of New York (NYC); or

        iii. less than 20,000 square feet which are part of a *common plan of development or sale* that will ultimately disturb 20,000 square feet or more, but less than one acre, within the municipal boundaries of NYC; or

        iv. that creates 5,000 square feet or more of *impervious area* within the municipal boundaries of NYC.

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2. *Discharges* from the *owner's or operator's construction activities* are/were not:

    a. already covered by a different SPDES permit; or

    b. covered under a different SPDES permit that was denied, terminated, or revoked; or

    c. identified in an expired individual SPDES permit that was not renewed; or

    d. required to obtain an individual SPDES permit or another general SPDES permit in accordance with Part VII.K.

3. If *construction activities* may adversely affect a species that is endangered or threatened, the *owner or operator* must obtain a:

    a. permit issued pursuant to 6 NYCRR Part 182 for the project; or

    b. letter issued by NYSDEC of non-jurisdiction pursuant to 6 NYCRR Part 182 for the project.

4. If *construction activities* have the potential to affect an *historic property*, the *owner or operator* must obtain one of the following:

    a. documentation that the *construction activity* is not within an archeological buffer area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant:

        i. 1-5 acres of disturbance - 20 feet; or

        ii. 5-20 acres of disturbance - 50 feet; or

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iii. 20+ acres of disturbance - 100 feet.

b. NYSDEC consultation form sent to OPRHP,[1] and copied to NYSDEC's Agency Historic Preservation Officer (APO), and

i. the State Environmental Quality Review Act (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or

ii. documentation from OPRHP that the *construction activity* will result in No Impact; or

iii. documentation from OPRHP providing a determination of No Adverse Impact; or

iv. a Letter of Resolution signed by the *owner or operator*, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA).

c. documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

i. No Affect; or

ii. No Adverse Affect; or

iii. Executed Memorandum of Agreement.

d. documentation that SHPA Section 14.09 has been completed by NYSDEC or another state agency.

5. If *construction activities* are subject to SEQR, the *owner or operator* must obtain documentation that SEQR has been satisfied.

6. If *construction activities* are not subject to SEQR, but subject to the equivalent environmental review from another New York State or federal agency, the

[1] The consultation form can be submitted, along with other project information, through OPRHP's Cultural Resource Information System (CRIS) portal. If submitted through CRIS, paper copies of the consultation form need not be mailed.

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owner or operator must obtain documentation that project review, pursuant to a process equivalent to SEQR from another New York State or federal agency, has been satisfied.

7. If *construction activities* require Uniform Procedures Act (UPA) Permits (see 6 NYCRR Part 621) from NYSDEC, or the equivalent from another New York State or federal agency, the *owner or operator* must:

    a. obtain all such necessary permits; or

    b. receive notification from NYSDEC pursuant to 6 NYCRR 621.3(a)(4) excepting Part I.A.7.a.

8. *Construction activities* are not eligible if they meet the following criteria in Part I.A.8.a. or b.:

    a. For linear transportation and linear utility project types, the *construction activities*:

        i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

        ii. are undertaken on land with no existing *impervious cover*; and

        iii. disturb two or more acres of *steep slope*.

    b. For all other project types, the *construction activities*:

        i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

        ii. are undertaken on land with no existing *impervious cover*; and

        iii. disturb one or more acres of *steep slope*.

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B. Types of *Discharges* Authorized

1. The following *stormwater discharges* are authorized under this permit:

   a. *Stormwater discharges*, including *stormwater* runoff, snowmelt runoff, and surface runoff and drainage, associated with *construction activity*, are authorized under this permit provided that appropriate *stormwater* controls are designed, installed, and maintained in accordance with Part II. and Part III.

   b. *Stormwater discharges* from construction support activities at the *construction site* (including concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, and borrow areas) if the following requirements are met:

      i. The support activity is directly related to the *construction site* required to have permit coverage for *stormwater discharges*; and

      ii. The support activity is not a commercial operation, nor does it serve multiple unrelated *construction sites*; and

      iii. The support activity does not continue to operate beyond the completion of the *construction activity* at the site it supports; and

      iv. *Stormwater* controls are implemented in accordance with Part II. and Part III. for *discharges* from the support activity areas.

2. The following non-*stormwater discharges* associated with *construction activity* are authorized under this permit:

   a. Non-*stormwater discharges* listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "*Discharges* from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; and

   b. Non-*stormwater discharges* of waters to which other components have not been added that are used in accordance with the *SWPPP* to control dust or irrigate vegetation in stabilized areas; and

   c. Uncontaminated *discharges* from *dewatering* operations

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3. Authorized *discharges* of *stormwater* or authorized *discharges* of non-*stormwater*, commingled with a *discharge* authorized by a different SPDES permit and/or a *discharge* that does not require SPDES permit authorization, are also authorized under this permit.

C. Prohibited *Discharges*

1. Non-*stormwater discharges* prohibited under this permit include but are not limited to:

    a. Wastewater from washout of concrete; and

    b. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials; and

    c. Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance; and

    d. Soaps, solvents, or detergents used in vehicle and equipment washing or external building washdown; and

    e. Toxic or hazardous substances from a spill or other release.

D. Electronic Notice of Intent (eNOI) Submittal

To receive authorization in accordance with Part I.D.3.b., the *owner or operator* must submit a complete eNOI in accordance with the requirements in Part I.D. The eNOI contains questions to: ensure eligibility requirements in Part I.A. have been met; obtain *owner or operator* contact information; obtain the total area to be disturbed and the existing/future *impervious areas* (rounded to the nearest tenth of an acre); confirm *Traditional Land Use Control MS4 Operator* jurisdiction over construction projects; satisfy the EPA eRule requirements; confirm that the Water Quality-Based Effluent Limitations in Part II. have been met; demonstrate consideration of the future risks due to climate change in accordance with Part III.A.2.; and confirm that the other *Stormwater Pollution Prevention Plan (SWPPP)* requirements in Part III. have been met.

1. An eNOI may be submitted for:

    a. *construction activities* that are not part of a *common plan of development or sale*; or

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b. an entire *common plan of development or sale*; or

c. separate *phase(s)* of a *common plan of development or sale* if the following requirements are met:

   i. the *common plan of development or sale* meets the eligibility requirements of Part I.A.5. or 6.; and

   ii. the *phase(s)* meet(s) all other eligibility requirements of Part I.A.; and

   iii. Part III.C. Required *SWPPP* Components by Project Type is based on the *common plan of development or sale*, not the *phase(s)*; or

d. *tree clearing* that is associated with, or will support, a *renewable energy* generation, transmission, or storage project that meets Part I.A.5. and 6., if the *tree clearing*:

   i. meets all other eligibility requirements of Part I.A.; and

   ii. will occur in NYSDEC's Regions 3-9; and

   iii. is not within ¼ mile of a bat hibernaculum protected pursuant to 6 NYCRR Part 182; and

   iv. will occur between November 1st and March 31st.

2. As prerequisites for submitting an eNOI, the *owner or operator* must:

   a. prepare a *SWPPP* for Part I.D.1.a., b., c., or d. in accordance with Part III.; and

   b. based on the following criteria, upload the following signature forms signed in accordance with Part VII.J. to the eNOI prior to submission:

      i. for all eNOIs:

         1. the SWPPP Preparer Certification Form, Appendix F, signed by the *SWPPP* preparer; and

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2. the Owner/Operator Certification Form, Appendix J, signed by the *owner or operator*; and

ii. if an eNOI includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that will *discharge* to the *MS4(s)*:

1. determine if the *Traditional Land Use Control MS4 Operator(s)* have review authority. A *Traditional Land Use Control MS4 Operator* does not have review authority where:

a. the *owner or operator* of the *construction activities* in Part I.D.2.b.ii. is the same entity as the *Traditional Land Use Control MS4 Operator* identified in Part I.D.2.b.ii.; or

b. there is a statute exempting the *owner or operator* from zoning review by the *Traditional Land Use Control MS4 Operator*; or

c. there is no such statute per Part I.D.2.b.ii.1.b., the *Traditional Land Use Control MS4 Operator* concludes, after public hearing, that it does not have zoning review authority in accordance with Legal Memorandum LU14 Updated January 2020 “Governmental Immunity from Zoning and Other Legislation”; and

2. if the *Traditional Land Use Control MS4 Operator(s)* have review authority, submit the *SWPPP* to the *Traditional Land Use Control MS4 Operator(s)* for review and have:

a. if outside the municipal boundaries of NYC: the MS4 SWPPP Acceptance Form, Appendix G, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.; or

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b. if within the municipal boundaries of NYC: The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval Form, Appendix H, signed by the principal executive officer or ranking elected official from the Traditional Land Use Control MS4 Operator, or by a duly authorized representative of that person in accordance with Part VII.J.2.; and

3. if the *Traditional Land Use Control MS4 Operator* does not have review authority, have the MS4 No Jurisdiction Form, Appendix I, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.

3. Submitting an eNOI:

a. The *owner or operator* must submit a complete Notice of Intent electronically using a NYSDEC approved form.[2]

b. The *owner or operator* is authorized to *commence construction activity* as of the authorization date indicated in the Letter of Authorization (LOA), which is sent by NYSDEC after a complete eNOI is submitted.

i. If an eNOI is received for a *SWPPP* that deviates from one of the technical standards but demonstrates *equivalence* in accordance with Part III.B.1.a.ii. or Part III.B.2.b.ii., if the *SWPPP* includes *construction activities* that are not within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)*, and/or if the *SWPPP* includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that do not have review authority in accordance with Part I.D.2.b.ii.1., the authorization date indicated in the LOA will be 60 business days after the eNOI submission date.

[2] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

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c. If *Traditional Land Use Control MS4 Operator(s)* have review authority in accordance with Part I.D.2.b.ii.2., the *owner or operator* must, within five business days of receipt of the LOA, send an electronic copy of the LOA to the *Traditional Land Use Control MS4 Operator(s)* with review authority.

E. General Requirements for *Owners or Operators* with Permit Coverage

1. As of the date the LOA is received, the *owner or operator* must make the eNOI, *SWPPP*, and LOA available for review and copying in accordance with the requirements in Part VII.H. When applicable, as of the date an updated LOA is received, the *owner or operator* must make the updated LOA available for review and copying in accordance with the requirements in Part VII.H.

2. The *owner or operator* must ensure compliance with all requirements of this permit and that the provisions of the *SWPPP*, including any changes made to the *SWPPP* in accordance with Part III.A.5., are properly implemented and maintained from the *commencement of construction activity* until:

   a. all areas of disturbance have achieved *final stabilization;* and

   b. the owner's or operator's coverage under this permit is terminated in accordance with Part V.A.5.a.

3. As of the date of the *commencement of construction activities* until Part I.E.2.a. and b. have been met, the *owner or operator* must maintain at the *construction site*, a copy of:

   a. all documentation necessary to demonstrate eligibility with this permit; and

   b. this permit; and

   c. the *SWPPP*; and

   d. the signed SWPPP Preparer Certification Form; and

   e. the signed MS4 SWPPP Acceptance Form or signed NYCDEP SWPPP Acceptance/Approval Form or signed MS4 No Jurisdiction Form (when applicable); and

   f. the signed Owner/Operator Certification Form; and

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g. the eNOI; and

h. the LOA; and

i. the LOA transmittal to the Traditional Land Use Control MS4 Operator in accordance with Part I.D.3.c. (when applicable).

4. The *owner or operator* must maintain at the *construction site*, until Part I.E.2.a. and b. have been met, as of the date the documents become final or are received, a copy of the:

   a. responsible contractor's or subcontractor's certification statement(s) in accordance with Part III.A.7.; and

   b. inspection reports in accordance with Part IV.C.4. and 6.; and

   c. Request to Disturb Greater Than Five Acres and the Authorization Letter to Disturb Greater Than Five Acres in accordance with Part I.E.6. (when applicable); and

   d. Request to Continue Coverage and the Letter of Continued Coverage (LOCC) in accordance with Part I.F.2. and 4. (when applicable); and

   e. The updated LOA(s) in accordance with Part I.E.9. (when applicable).

5. The *owner or operator* must maintain the documents in Part I.E.3. and 4. in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection. The documents must be paper documents unless electronic documents are accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be. If electronic documents are kept on site, the *owner or operator* must maintain functional equipment on site available to an inspector during normal hours of operation such that an inspector may view the electronic documents in a format that can be read in a similar manner as a paper record and in a legally dependable format with no less evidentiary value than their paper equivalent.

6. The *owner or operator* must meet the following requirements prior to disturbing greater than five acres of soil at any one time:

   a. The *owner or operator* must submit a written Request to Disturb Greater Than Five Acres to:

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i. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, if a *Traditional Land Use Control MS4 Operator* does not have review authority in accordance with Part I.D.2.b.ii.1.; or

ii. the *Traditional Land Use Control MS4 Operator*, if a *Traditional Land Use Control MS4 Operator* has review authority in accordance with Part I.D.2.b.ii.1.; or

iii. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, and each involved *Traditional Land Use Control MS4 Operator*, if the project spans multiple municipalities with more than one *Traditional Land Use Control MS4 Operator* involved with review authority in accordance with Part I.D.2.b.ii.1.

b. The written Request to Disturb Greater Than Five Acres must include:

i. The SPDES permit identification number (Permit ID); and

ii. Full technical justification demonstrating why alternative methods of construction that would result in five acres of soil disturbance or less at any one time are not feasible; and

iii. The phasing plan for the project and sequencing plans for all *phases* from the *SWPPP* in accordance with Part III.B.1.d.; and

iv. Plans with locations and details of erosion and sediment control practices such that the heightened concern for erosion when disturbing greater than five acres at one time has been addressed; and

v. Acknowledgment that "the *owner or operator* will comply with the requirements in Part IV.C.2.b."; and

vi. Acknowledgment that "the *owner or operator* will comply with the requirements in Part II.B.1.b."

c. The *owner or operator* must be in receipt of an Authorization Letter to Disturb Greater Than Five Acres, which will include when the

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authorization begins and ends and indicate a maximum area (acres) of soil disturbance allowed at any one time, from:

i. NYSDEC, if Part I.E.6.a.i. or iii. apply; or

ii. the *Traditional Land Use Control MS4 Operator*, if Part I.E.6.a.ii. applies.

7. Upon a finding of significant non-compliance with the practices described in the *SWPPP* or violation of this permit, NYSDEC may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order must be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

8. If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE).[3] *Construction activity* shall not resume until written permission to do so has been received from the RWE.

9. To be authorized to implement modifications to the information previously submitted in the eNOI, the *owner or operator* must:

   a. notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI; and

   b. update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D.; and

   c. receive an updated LOA.

10. The eNOI, *SWPPP*, LOA, updated LOAs (when applicable), and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

[3] The Regional Water Manager where a DEC Region does not have a RWE.

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F. Permit Coverage for *Discharges* Authorized Under GP-0-20-001

When applicable:

1. Upon the effective date of this permit, an *owner or operator* of *a construction activity*, with coverage under GP-0-20-001, will have interim coverage under GP-0-25-001 for 45 calendar days starting on the effective date of GP-0-25-001 so long as the *owner or operator* maintains compliance with all applicable requirements of this permit.

2. Within 30 calendar days of the effective date of this permit, the *owner or operator*, with coverage under GP-0-20-001, must submit a complete Request to Continue Coverage electronically using a NYSDEC approved form,[4] which contains the information identified in Part I.F.3. below, if:

   a. the *owner or operator* continues to implement the SMP component in conformance with the technical standards in place at the time of initial project authorization; and

   b. the *owner or operator* will comply with all non-design requirements of GP-0-25-001.

3. The Request to Continue Coverage form contains questions to: ensure eligibility requirements in Part I.A. have been met; verify *owner or operator* contact information; verify the permit identification number; verify the original eNOI submission ID, if applicable; verify Part I.F.2.a. and b.; verify the version of the Design Manual that the technical/design components conform to; and receive an updated Owner/Operator Certification Form, Appendix I.

4. The *owner or operator* has obtained continued coverage under GP-0-25-001 as of the date indicated in the LOCC, which is sent by NYSDEC after a complete Request to Continue Coverage form is submitted.

5. If the owner or operator does not submit the Request to Continue Coverage form in accordance with Part I.F.2. and 3., coverage under this permit is automatically terminated after interim coverage expires.

[4] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

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G. Change of *Owner or Operator*

When applicable:

1. When property ownership changes, or when there is a change in operational control over the construction plans and specifications, the following process applies:

    a. The new *owner or operator* must meet the applicable prerequisites for submitting an eNOI in accordance with Part I.D.2.; and

    b. The new *owner or operator* must submit an eNOI in accordance with Part I.D.3.; and

    c. Permit coverage for the new *owner or operator* will be effective upon receipt of the LOA in accordance with Part I.D.3.b.; and

    d. The new *owner or operator*, upon receipt of their LOA, must provide their Permit ID to the original *owner or operator*; and

    e. If the original *owner or operator* will no longer be the *owner or operator* of the *construction activity* identified in the original *owner's or operator's* eNOI, the original *owner or operator*, upon receipt of the new *owner's or operator's* Permit ID in accordance with Part I.G.1.d., must submit to NYSDEC a completed eNOT in accordance with Part V. that includes the name and Permit ID of the new *owner or operator*; or

    f. If the original *owner or operator* maintains ownership of a portion of the *construction activity*, the original *owner or operator* must maintain their coverage under the permit by modifying their eNOI; modifications to the eNOI must include:

        i. the revised area of disturbance and/or *impervious area(s)*; and

        ii. the revised SMP information, if applicable; and

        iii. a narrative description of what has changed; and

        iv. the new *owner's or operator's* Permit ID for the portion of the project removed from the eNOI.

    Owners or operators must follow Part I.E.9. to modify the eNOI.

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Part II. Water Quality-Based Effluent Limitations

A. Maintaining Water Quality

NYSDEC expects that compliance with the requirements of this permit will control *discharge*s necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any *discharge* to either cause or contribute to a violation of the following *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York:

1. There must be no increase in turbidity that will cause a substantial visible contrast to natural conditions; and

2. There must be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and

3. There must be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the *stormwater discharge*s authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standard,* the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this permit and document in accordance with Part IV.C.4. of this permit. To address the *water quality standard* violation the *owner or operator* must include and implement appropriate controls in the *SWPPP* to correct the problem or obtain an individual SPDES permit.

If, despite compliance with the requirements of this permit, it is demonstrated that the *stormwater discharge*s authorized by this permit are causing or contributing to a violation of *water quality standards*, or if NYSDEC determines that a modification of this permit is necessary to prevent a violation of *water quality standards*, the authorized *discharge*s will no longer be eligible for coverage under this permit, and the *owner or operator* must obtain an individual SPDES permit prior to further *discharges* from the *construction site*.

B. Effluent Limitations Applicable to *Discharges* from *Construction Activities*

*Discharge*s authorized by this permit must achieve, at a minimum, the effluent limitations in Part II.B.1.a., b., c., d., and e. These limitations represent the

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degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement, and maintain control measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part II.B.1.a., b., c., d., and e. and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (BB), dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in *SWPPP* the reason(s) for the deviation, or alternative design, and provide information in the *SWPPP* demonstrating that the deviation or alternative design is *equivalent* to the technical standard.

    a. **Erosion and Sediment Controls.** At a minimum, erosion and sediment controls must be selected, designed, installed, implemented, and maintained to:

        i. *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharge*s; and

        ii. Control *stormwater discharge*s, including both peak flow rates and total *stormwater* volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points; and

        iii. *Minimize* the amount of soil exposed during *construction activity*; and

        iv. *Minimize* the disturbance of *steep slope*; and

        v. *Minimize* sediment *discharge*s from the site; and

        vi. Provide and maintain *natural buffers* around surface waters, direct *stormwater* to vegetated areas and maximize *stormwater* infiltration to reduce *pollutant discharge*s, unless *infeasible*; and

        vii. *Minimize* soil compaction. *Minimizing* soil compaction is not required

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where the intended function of a specific area of the site dictates that it be compacted; and

viii. Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and

ix. *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of *pollutants* that could be discharged from the site.

b. **Soil Stabilization**. In areas where soil disturbance activity has ceased, whether permanently or *temporarily ceased*, the application of soil stabilization measures must be initiated by the end of the next business day and completed within 14 calendar days from the date the current soil disturbance activity ceased. For *construction sites* that *directly discharge* to one of the 303(d) segments listed in Appendix D, or are located in one of the watersheds listed in Appendix C, or are authorized to disturb greater than five acres in accordance with Part I.E.5.a.viii., the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven calendar days from the date the soil disturbance activity ceased.

c. **Dewatering**. *Discharge*s from *dewatering* activities, including *discharge*s from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

d. **Pollution Prevention Measures**. Select, design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be selected, designed, installed, implemented, and maintained to:

i. *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. Soaps, detergents and solvents cannot be used; and

ii. *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation

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and to *stormwater*. *Minimization* of exposure is not required in cases where the exposure to precipitation and to *stormwater* will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of *stormwater* contamination (such as final products and materials intended for outdoor use); and

iii. Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

e. **Surface Outlets.** When discharging from basins and impoundments, the surface outlets must be designed, constructed, and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-Construction Stormwater Management Practice (SMP) Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction SMPs, in accordance with Part III.C., must select, design, install, implement, and maintain the SMPs to meet the *performance criteria* in the New York State Stormwater Management Design Manual, dated July 31, 2024 (DM), using sound engineering judgment. Where SMPs are not designed in conformance with the *performance criteria* in the DM, the *owner or operator* must include in the *SWPPP* the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. The *owner or operator* of a *construction activity*, that requires SMPs in accordance with Part III.C., must design the practices to meet the applicable *sizing criteria* in Part II.C.2.a., b., c., or d.

a. Sizing Criteria for *New Development*

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the total WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv must be calculated in accordance with the criteria in Section 4.2 of the DM; or

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2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the requirements in Part II.C.2.a.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

   In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.4 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

   1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or

   2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs without detention or velocity controls; or

   3. The site *directly discharges* into a fifth order or larger water body (stream, river, or lake), or tidal waters, where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

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iii. *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or

2. A downstream analysis reveals that *overbank* control is not required.

iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or

2. A downstream analysis reveals that *overbank* control is not required.

b. *Sizing Criteria* for *New Development* in Enhanced Phosphorus Removal Watersheds

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24-hour design storm over the post-developed watershed and must be calculated in accordance with the criteria in Section 4.3 of the DM; or

2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part II.C.2.b.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include

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documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible.*

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.5 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or

2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs; or

3. The site *directly discharges* to tidal waters, or a fifth order or larger water body (stream, river, or lake) where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

iii. *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or

2. A downstream analysis reveals that *overbank* control is not required.

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iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or

2. A downstream analysis reveals that *overbank* control is not required.

c. *Sizing Criteria* for *Redevelopment Activity*

i. Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* must be addressed by one of the following options, as outlined in Section 9.2.1. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C) must calculate the WQv in accordance with Section 4.3 of the DM. All other *redevelopment activities* must calculate the WQv in accordance with Section 4.2 of the DM.

1. Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the DM must be applied to all newly created pervious areas; or

2. Capture and treat 100% of the required WQv, for a minimum of 25% of the disturbed redevelopment *impervious area*, by implementation of standard SMPs or reduced by application of runoff reduction techniques; or

3. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a volume-based alternative SMP, as defined in Section 9.4 of the DM; or

4. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a flow-through alternative SMP sized to treat the peak rate of runoff from the WQv design storm; or

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5. Application of a combination of 1 through 4 above that provide a weighted average of at least two of the above methods. Application of this method must be in accordance with the criteria in Section 9.2.1(A)(V) of the DM; or

6. If there is an existing SMP located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 through 5 above.

ii. Channel Protection Volume (CPv) is not required if there is 0% change to hydrology that increases the *discharge* rate and volume from the project site.

iii. *Overbank* Flood Control (Qp) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

iv. Extreme Flood Control (Qf) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

d. *Sizing Criteria* for Combination of *Redevelopment Activity* and *New Development*

Construction projects, that include both *new development* and *redevelopment activity*, must use SMPs that meet the *sizing criteria* calculated as an aggregate of the *sizing criteria* in Part II.C.2.a. or b. for the *new development* portion of the project and Part II.C.2.c. for the *redevelopment activity* portion of the project.

Part III. Stormwater Pollution Prevention Plan (SWPPP)

A. General *SWPPP* Requirements

1. A *SWPPP* must be prepared and implemented by the *owner or operator* of all *construction activity* covered by this permit. All authorized *discharges* must be identified in the *SWPPP*. The *SWPPP* must document the selection, design, installation, implementation and maintenance of the control measures and

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practices that will be used to meet the effluent limitations in Part II.B. and, where applicable, the SMP requirements in Part II.C.

2. The *SWPPP* must demonstrate consideration in narrative format of the future physical risks due to climate change pursuant to the Community Risk and Resiliency Act (CRRA), 6 NYCRR Part 490, and associated guidance.

    a. The owner or operator must consider:

        i. the following physical risks due to climate change:

            (i) increasing temperature; and

            (ii) increasing precipitation; and

            (iii) increasing variability in precipitation, including chance of drought; and

            (iv) increasing frequency and severity of flooding; and

            (v) rising sea level; and

            (vi) increasing storm surge; and

            (vii) shifting ecology.

        ii. for each of the following:

            (i) overall site planning; and

            (ii) location, elevation, and sizing of:

                a. control measures and practices; and

                b. conveyance system(s); and

                c. detention system(s).

3. The *SWPPP* must describe the erosion and sediment control practices and where required, SMPs that will be used and/or constructed to reduce the *pollutants* in *stormwater discharges* and to assure compliance with the

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requirements of this permit. In addition, the *SWPPP* must identify potential sources of pollution which may reasonably be expected to affect the quality of *stormwater discharges*.

4. All *SWPPPs*, that require the SMP component in accordance with Part III.B.2., must be prepared by a *qualified professional*.

5. The *owner or operator* must keep the *SWPPP* current so that, at all times, it accurately documents the erosion and sediment control practices that are being used or will be used during construction, and all SMPs that will be constructed on the site. At a minimum, the *owner or operator* must modify the *SWPPP*, including construction drawings:

   a. whenever the current provisions prove to be ineffective in *minimizing pollutants* in *stormwater discharges* from the site; and

   b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*; and

   c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* NYSDEC, or other regulatory authority; and

   d. to document the final construction conditions in an as-built drawing.

6. NYSDEC may notify the *owner or operator* at any time that the *SWPPP* does not meet one or more of the minimum requirements of this permit. The notification must be in writing and identify the provisions of the *SWPPP* that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by NYSDEC, the *owner or operator* must make the required changes to the *SWPPP* and submit written notification to NYSDEC that the changes have been made. If the *owner or operator* does not respond to NYSDEC's comments in the specified time frame, NYSDEC may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4.

7. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion and sediment control practices included in the *SWPPP* and the

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contractor(s) and subcontractor(s) that will be responsible for constructing the SMPs included in the *SWPPP*. The *owner or operator* must have each of the contractors and subcontractors identify at least one person from their company to be *trained contractor* that will be responsible for implementation of the *SWPPP*. The *owner or operator* must ensure that at least one *trained contractor* is on site daily when soil disturbance activities are being performed.

The *owner or operator* must have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before the *commencement of construction activities*:

> "I hereby certify under penalty of law that I understand and agree to comply with the requirements of the *SWPPP* and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) for Stormwater Discharges from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the *SWPPP* that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for *SWPPP* implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* must attach the certification statement(s) to the copy of the *SWPPP* that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the *SWPPP* after the *commencement of construction activities*, they must also sign the certification statement and provide the information listed above prior to performing *construction activities*.

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B. Required *SWPPP* Contents

1. Erosion and sediment control component - The *owner or operator* must prepare a *SWPPP* that includes erosion and sediment control practices.

    a. Erosion and sediment control practices must be designed:

        i. in conformance with the BB; or

        ii. *equivalent* to the BB if deviating from Part III.B.1.a.i.

    b. If the erosion and sediment control practices are designed in conformance with Part III.B.1.a.ii., the *SWPPP* must include a demonstration of *equivalence* to the BB.

    c. At a minimum, the erosion and sediment control component of the *SWPPP* must include the following:

        i. Background information about the scope of the project, including the location, type and size of project; and

        ii. A site map/construction drawing(s) with north arrows for the project, including a general location map. At a minimum, the site map must show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the *stormwater discharge*(s) and receiving surface water(s); and

        iii. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG); and

        iv. A phasing plan for the project and sequencing plans for all *phases*, both of which must address clearing and grubbing, excavation and grading, utility and infrastructure installation, *final stabilization*,

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and any other *construction activity* at the site that will result in soil disturbance.

1. The phasing plan must include:

    a. a map delineating and labeling the limits of soil disturbance for all *phases* of a project; and

    b. a table identifying the order and intended schedule of when each *phase* will begin and end its sequencing plan. The table must identify the total disturbed area for each *phase* at any one time and the total disturbed area for the overall project at any one time all on one timeline showing all overlapping quantities of disturbed area at any one time; and

2. A sequencing plan for a specific *phase* must include:

    a. a table indicating the order and intended schedule of *construction activities* within a *phase*, and corresponding construction drawings with a description of the work to be performed; and

    b. all permanent and *temporary stabilization* measures; and

v. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented; and

vi. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice; and

vii. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any

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temporary sediment basins and structural practices that will be used to divert flows from exposed soils; and

viii. A maintenance inspection schedule for the contractor(s) and subcontractor(s) identified in Part III.A.7. to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection schedule must be in accordance with the requirements in the BB technical standard; and

ix. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the *stormwater discharges*; and

x. A description and location of any *stormwater discharges* associated with industrial activity other than construction at the site, including, but not limited to, *stormwater discharges* from asphalt plants and concrete plants located on the *construction site*; and

xi. Identification of any elements of the design that are not in conformance with the design criteria in the BB technical standard. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. SMP component – The *owner or operator* of *construction activity* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs.

   a. SMPs must be designed in conformance with the applicable *sizing criteria* in Part II.C.2.a., c., or d.; and

   b. SMPs must be designed in conformance with the *performance criteria*:

      i. in the DM; or

      ii. *equivalent* to the DM if deviating from Part III.B.2.b.i.; or

      iii. in the New York State Stormwater Management Design Manual, dated January 2015 (2015 Design Manual), or *equivalent* to it, if the following criteria are met:

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1. The eNOI is submitted in accordance with Part I.D. before January 29, 2027 for *construction activities* that are either:

    a. subject to governmental review and approval:

        i. where the *owner or operator* made any application to that governmental entity prior to the effective date of this permit; and

        ii. such application included a *SWPPP* developed using the 2015 Design Manual or *equivalent* to it; or

    b. not subject to governmental review and approval:

        i. where a fiscal allocation for the *construction activities* has been developed and approved by a governmental entity; and

        ii. the *SWPPP* was developed using the 2015 Design Manual or *equivalent* to it; and

c. If SMPs are designed in conformance with Part III.B.2.b.ii., the *SWPPP* must include the reason(s) for the deviation or alternative design and a demonstration of *equivalence* to the DM; and

d. If SMPs are designed in conformance with Part III.B.2.b.iii., the *SWPPP* must include supporting information or documentation demonstrating that Part III.B.2.b.iii.1.a. or b. apply; and

e. The SMP component of the *SWPPP* must include the following:

    i. Identification of all SMPs to be constructed as part of the project, including which option the SMP designs conform to, either Part III.B.2.b.i., ii., or iii. Include the dimensions, material specifications and installation details for each SMP; and

    ii. A site map/construction drawing(s) showing the specific location and size of each SMP; and

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iii. A Stormwater Modeling and Analysis Report that includes:

(i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points; and

(ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and SMPs; and

(iii) Results of *stormwater* modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre- and post-development runoff rates and volumes for the different storm events; and

(iv) Summary table, with supporting calculations, which demonstrates that each SMP has been designed in conformance with the *sizing criteria* included in the DM; and

(v) Identification of any *sizing criteria* that is not required based on the requirements included in Part II.C.; and

(vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the DM. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the DM.

iv. Soil testing results and locations (test pits, borings); and

v. Infiltration test results, when required in accordance with Part III.B.2.a.; and

vi. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each SMP. The plan must identify the entity

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that will be responsible for the long-term operation and maintenance of each practice; and

3. Enhanced Phosphorus Removal Standards - The *owner or operator* of *construction activity* identified in Table 2 of Appendix B that is located in a watershed identified in Appendix C must prepare a *SWPPP* that includes SMPs designed in conformance with the applicable *sizing criteria* in Part II.C.2.b., c., or d. and the *performance criteria* Enhanced Phosphorus Removal Standards included in the DM. At a minimum, the SMP component of the *SWPPP* must meet the requirements of Part III.B.2.

C. Required *SWPPP* Components by Project Type

Owners or operators of *construction activities*, identified in Table 1 of Appendix B, are required to prepare a *SWPPP* that only includes erosion and sediment control practices designed in accordance with Part III.B.1. *Owners or operators* of the *construction activities*, identified in Table 2 of Appendix B, must prepare a *SWPPP* that also includes SMPs designed in accordance with Part III.B.2 or 3.

For the entire area of disturbance, including the entire *common plan of development or sale* if applicable, the owner or operator must evaluate every bullet from Appendix B Table 1 and Table 2 separately. If bullets from both Table 1 and Table 2 apply, the *SWPPP* must include erosion and sediment control practices for all *construction activities* but SMPs for only those portions of the *construction activities* that fall under Table 2 bullet(s).

Part IV. Inspection and Maintenance Requirements

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures), and all SMPs identified in the *SWPPP*, are inspected and maintained in accordance with Part IV.B. and C.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity*, identified in Tables 1 and 2 of Appendix B, must have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being

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implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor must:

a. if the corrective action does not require engineering design:

    i. begin implementing corrective actions within one business day; and

    ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

    i. begin the engineering design process within five business days; and

    ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

2. For *construction sites* where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections in accordance with Part IV.B.1. The *trained contractor* must begin conducting the maintenance inspections in accordance with Part IV.B.1. as soon as soil disturbance activities resume.

3. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections in accordance with Part IV.B.1. if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational.

C. *Qualified Inspector* Inspection Requirements

1. With the exception of the following *construction activities* identified in Tables 1 and 2 of Appendix B, a *qualified inspector* must conduct site inspections for all other *construction activities* identified in Tables 1 and 2 of Appendix B:

    a. the construction of a single-family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than or equal to five (5) acres and is

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not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D; and

b. the construction of a single-family home that involves soil disturbances of one (1) or more acres but less than or equal to five (5) acres and is not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D; and

c. construction on *agricultural property* that involves soil disturbances of one (1) or more acres but less than five (5) acres; and

d. *construction activities* located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances of 5,000 square feet or more, but less than one acre.

2. The *qualified inspector* must conduct site inspections in accordance with the following timetable:

a. For *construction sites* where soil disturbance activities are on-going, the *qualified inspector* must conduct a site inspection at least once every seven (7) calendar days; or

b. For *construction sites* where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part I.E.6. to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days; or

c. For *construction sites* where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* must conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas under the jurisdiction of a *Traditional Land Use Control MS4 Operator,* the *Traditional Land Use Control MS4 Operator* (provided the *Traditional Land Use Control MS4 Operator* is not the *owner or operator* of the *construction activity*) by hard copy or email prior to reducing the inspections to this frequency and again by hard copy or email prior to re-commencing construction; or

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d. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the requirement to have the *qualified inspector* conduct inspections ceases if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1., the *Traditional Land Use Control MS4 Operator(s)* (provided the *Traditional Land Use Control MS4 Operator(s)* are not the *owners or operators* of the *construction activity*) in writing prior to the shutdown and again in writing prior to resuming *construction activity*. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* must terminate coverage by meeting the requirements of Part V; or

e. For *construction sites* involving soil disturbance of one (1) or more acres that *directly discharge* to one of the 303(d) segments listed in Appendix D or is located in one of the watersheds listed in Appendix C, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* must inspect:

   a. all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness; and

   b. all SMPs under construction to ensure that they are constructed in conformance with the *SWPPP*; and

   c. all areas of disturbance that have not achieved *final stabilization*; and

   d. all points of *discharge* to *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site*; and

   e. all points of *discharge* from the *construction site*.

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4. The *qualified inspector* must prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report must include and/or address all of the following, for all *construction activities* except those listed in Part IV.C.1.:

   a. Permit identification number; and

   b. Date and time of inspection; and

   c. Name and title of person(s) performing inspection; and

   d. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection, including the temperature at the time of the inspection; and

   e. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This must include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow; and

   f. A description of the condition of all *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This must include identification of any *discharges* of sediment to the *surface waters of the State*; and

   g. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance; and

   h. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced; and

   i. Description and sketch (map) of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection; and

   j. Estimates, in square feet or acres, of the following areas:

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i. Total area with active soil disturbance (not requiring either *temporary stabilization* or *final stabilization*); and

ii. Total area with inactive soil disturbance (requiring either *temporary stabilization* or *final stabilization*); and

iii. Total area that has achieved *temporary stabilization*; and

iv. Total area that has achieved *final stabilization*; and

k. Current stage of construction of all SMPs and identification of all *construction activity* on site that is not in conformance with the *SWPPP* and technical standards; and

l. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the SMP(s); and

m. Identification and status of all corrective actions that were required by previous inspection; and

n. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* must attach color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* must also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* must attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

5. Within one business day of the completion of an inspection, the *qualified inspector* must notify the *owner or operator*, and appropriate contractor or subcontractor identified in Part III.A.7., of any corrective actions that need to be taken. The contractor or subcontractor must:

a. if the corrective action does not require engineering design:

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i. begin implementing corrective actions within one business day; and

ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

i. begin the engineering design process within five business days; and

ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

6. All inspection reports must be signed by the *qualified inspector.* In accordance with Part I.E.3., the inspection reports must be maintained on site with the *SWPPP*.

Part V. How to Terminate CGP Coverage

A. Electronic Notice of Termination (eNOT) Submittal

The eNOT contains questions to ensure requirements in Part V.A. have been met.

1. An *owner or operator* must terminate coverage when one or more of the following requirements have been met:

a. Total project completion:

i. all *construction activity* identified in the *SWPPP* has been completed; and

ii. all areas of disturbance have achieved *final stabilization*; and

iii. all temporary, structural erosion and sediment control measures have been removed; and

iv. all SMPs have been constructed in conformance with the *SWPPP* and are operational; and

v. an as-built drawing has been prepared; or

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b. Planned shutdown with partial project completion:

   i. all soil disturbance activities have ceased; and

   ii. all areas disturbed as of the project shutdown date have achieved *final stabilization*; and

   iii. all temporary, structural erosion and sediment control measures have been removed; and

   iv. all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational; and

   v. an as-built drawing has been prepared; or

c. In accordance with Part I.G. Change of Owner or Operator; or

d. The *owner or operator* has obtained coverage under an alternative general SPDES permit or an individual SPDES permit.

2. For *construction activities* that require *qualified inspector* inspections in accordance with Part IV.C.1. and have met Part V.A.1.a. or b., the *owner or operator* must have the *qualified inspector* perform a final site inspection prior to submitting the eNOT. The *qualified inspector* must, by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice(s)" certification statements on the eNOT, certify that all the requirements in Part V.A.1.a. or b. have been achieved.

3. For *construction activities* that are subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1. and meet Part V.A.1.a. or b., the *owner or operator* must have the *Traditional Land Use Control MS4 Operator(s)* sign the "MS4 Acceptance" statement on the eNOT in accordance with the requirements in Part VII.J. A *Traditional Land Use Control MS4 Operator* official, by signing this statement, determined that it is acceptable for the *owner or operator* to submit the eNOT in accordance with the requirements of this Part. A *Traditional Land Use Control MS4 Operator* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector*'s final site inspection certification(s) when required in Part V.A.2.

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4. For *construction activities* that require SMPs and meet Part V.A.1.a. or b., the *owner or operator* must, prior to submitting the eNOT, ensure one of the following:

    a. for SMP(s) that were constructed by a private entity, but will be owned, operated, and maintained by a public entity, the SMP(s) and any right-of-way(s) needed to operate and maintain such practice(s) have been deeded to the municipality in which the practice(s) is located; or

    b. for SMP(s) that are privately owned, but will be operated and maintained by a public entity, an executed operation and maintenance agreement is in place with the municipality that will operate and maintain the SMP(s); or

    c. for SMP(s) that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record; or

    d. for SMP(s) that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility, the *owner or operator* has policies and procedures in place that ensure operation and maintenance of the practices in accordance with the operation and maintenance plan.

5. An *owner or operator* that has met the requirements of Part V.A.1., 2., 3., and 4. must request termination of coverage under this permit by submitting a complete Notice of Termination form electronically using a NYSDEC approved form.[5]

    a. The owner's or operator's coverage is terminated as of the termination date indicated in the Letter of Termination (LOT), which is sent by NYSDEC after a complete eNOT is submitted.

[5] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

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Part VI. Record Retention and Reporting

A. Record Retention

The *owner or operator* must retain a copy of the documents listed in Part I.E.3. and a copy of the LOT for a period of at least five years from the date that NYSDEC accepts a complete NOT submitted in accordance with Part V.

B. Reporting

Except for the eNOI, the signature forms associated with the eNOI, and the eNOT, all other written correspondence requested by NYSDEC, including individual permit applications, must be sent to the address of the appropriate DOW (SPDES) Program contact at the Regional Office listed in Appendix E.

Part VII. Standard Permit Requirements

For the purposes of this permit, examples of contractors and subcontractors include: third-party maintenance and construction contractors.

A. Duty to Comply

The *owner or operator*, and all contractors or subcontractors, must comply with all requirements of this permit. Any non-compliance with the requirements of this permit constitutes a violation of the New York State Environmental Conservation Law (ECL), and its implementing regulations, and is grounds for enforcement action. Filing of a request for termination of coverage under this permit, or a notification of planned changes or anticipated non-compliance, does not limit, diminish or stay compliance with any requirements of this permit.

B. Need to Halt or Reduce Activity Not a Defense

The necessity to halt or reduce the *construction activity* regulated by this permit, in order to maintain compliance with the requirements of this permit, must not be a defense in an enforcement action.

C. Penalties

There are substantial criminal, civil, and administrative penalties associated with violating the requirements of this permit. Fines of up to $37,500 per day for each

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violation and imprisonment for up to 15 years may be assessed depending upon the nature and degree of the offense.

D. False Statements

Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance must, upon conviction, be punished in accordance with ECL §71-1933 and or New York State Penal Law Articles 175 and 210.

E. Re-Opener Clause

Upon issuance of this permit, a determination has been made on the basis of a submitted Notice of Intent, plans, or other available information, that compliance with the specified permit requirements will reasonably protect classified water use and assure compliance with applicable *water quality standards*. Satisfaction of the requirements of this permit notwithstanding, if operation pursuant to this permit causes or contributes to a condition in contravention of State *water quality standards* or guidance values, or if NYSDEC determines that a modification is necessary to prevent impairment of the best use of the waters or to assure maintenance of *water quality standards* or compliance with other provisions of ECL Article 17 or the Clean Water Act (CWA), or any regulations adopted pursuant thereto, NYSDEC may require such modification and the Commissioner may require abatement action to be taken by the *owner or operator* and may also prohibit such operation until the modification has been implemented.

F. Duty to Mitigate

The *owner or operator*, and its contractors and subcontractors, must take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

G. Requiring Another General Permit or Individual SPDES Permit

NYSDEC may require any *owner or operator* authorized to *discharge* in accordance with this permit to apply for and obtain an individual SPDES permit or apply for authorization to *discharge* in accordance with another general SPDES permit.

1. Cases where an individual SPDES permit or authorization to discharge in accordance with another general SPDES permit may be required include, but is not limited to the following:

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a. the *owner or operator* is not in compliance with the conditions of this permit or does not meet the requirements for coverage under this permit; and

b. a change has occurred in the availability of demonstrated technology or practices for the control or abatement of *pollutants* applicable to the *point source*; and

c. new effluent limitation guidelines or new source performance standards are promulgated that are applicable to *point sources* authorized to *discharge* in accordance with this permit; and

d. existing effluent limitation guidelines or new source performance standards that are applicable to *point sources* authorized to *discharge* in accordance with this permit are modified; and

e. a water quality management plan containing requirements applicable to such *point sources* is approved by NYSDEC; and

f. circumstances have changed since the time of the request to be covered so that the *owner or operator* is no longer appropriately controlled under this permit, or either a temporary or permanent reduction or elimination of the authorized *discharge* is necessary; and

g. the *discharge* is in violation of section 17-0501 of the ECL; and

h. the *discharge(s)* is a significant contributor of *pollutants*. In making this determination, NYSDEC may consider the following factors:

   i. the location of the *discharge(s)* with respect to *surface waters of the State*; and

   ii. the size of the *discharge(s)*; and

   iii. the quantity and nature of the *pollutants discharged* to *surface waters of the State*; and

   iv. other relevant factors including compliance with other provisions of ECL Article 17, or the CWA.

2. When NYSDEC requires any *owner or operator* authorized by this permit to apply for an individual SPDES permit as provided for in this subdivision, it must notify the *owner or operator* in writing that a permit application is required. This notice must include a brief statement of the reasons for this decision, an application

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form, a statement setting a time for the *owner or operator* to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from the *owner's or operator's* receipt of the notification letter, whereby the authorization to *discharge* under this permit must be terminated. NYSDEC may grant additional time upon demonstration, to the satisfaction of the RWE,[6] that additional time to apply for an alternative authorization is necessary or where NYSDEC has not provided a permit determination in accordance with 6 NYCRR Part 621.

3. When an individual SPDES permit is issued to an *owner or operator* authorized to *discharge* under this permit for the same *discharge(s)*, this permit authorization for *construction activities* authorized under the individual SPDES permit is automatically terminated on the effective date of the individual SPDES permit unless termination is earlier in accordance with 6 NYCRR Part 750.

H. Duty to Provide Information

The *owner or operator* must furnish to NYSDEC, within five business days, unless otherwise set forth by NYSDEC, any information that NYSDEC may request to determine whether cause exists to determine compliance with this permit or to determine whether cause exists for requiring an individual SPDES permit in accordance with 6 NYCRR 750-1.21(e) (see Part VII.G. Requiring Another General Permit or Individual Permit).

The *owner or operator* must make available to NYSDEC, for inspection and copying, or furnish to NYSDEC within 25 business days of receipt of a NYSDEC request for such information, any information retained in accordance with this permit.

Except for Part I.D.4. and 5. and Part I.G., the following applies: where the *owner or operator* becomes aware that it failed to submit any relevant facts on the Notice of Intent, or submitted incorrect information in a Notice of Intent or in any report to NYSDEC, the *owner or operator* must submit such facts or corrected information to NYSDEC within five business days.

I. Extension

In the event a new permit is not issued and effective prior to the expiration of this permit, and this permit is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, then the *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the requirements of this permit until a new permit is issued and effective.

[6] The Regional Water Manager where a DEC Region does not have a RWE.

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J. Signatories and Certification

The Notice of Intent, Notice of Termination, and reports required by this permit must be signed as provided in 40 CFR §122.22.

1. All Notices of Intent and Notices of Termination must be signed as follows:

   a. For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

      (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or

      (ii) the manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for Notice of Intent or Notice of Termination requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

      Note: NYSDEC does not require specific assignments or delegations of authority to responsible corporate officers identified in 40 CFR §122.22(a)(1)(i). NYSDEC will presume that these responsible corporate officers have the requisite authority to sign the Notice of Intent or Notice of Termination unless the corporation has notified NYSDEC to the contrary. Corporate procedures governing authority to sign a Notice of Intent or Notice of Termination may provide for assignment or delegation to applicable corporate positions under 40 CFR §122.22(a)(1)(ii) rather than to specific individuals.

   b. For a partnership or sole proprietorship. By a general partner or the proprietor, respectively.

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c. For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

   1. the chief executive officer of the agency; or

   2. a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. All reports required by this permit, and other information requested by NYSDEC, must be signed by a person described in Part VII.J.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part VII.J.1. or using the Duly Authorized Form, found on the DEC website; and

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

   c. The written authorization is submitted to NYSDEC.

3. Changes to authorization. If an authorization under Part VII.J.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the *construction activity*, a new authorization satisfying the requirements of Part VII.J.2. must be submitted to NYSDEC prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under Part VII.J.1. or 2. must make the following certification:

   I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who

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manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

5. Electronic reporting. If documents described in Part VII.J.1. or 2. are submitted electronically by or on behalf of the *construction activity* with coverage under this permit, any person providing the electronic signature for such documents must meet all relevant requirements of this section, and must ensure that all of the relevant requirements of 40 CFR Part 3 (including, in all cases, subpart D to Part 3) (Cross-Media Electronic Reporting) and 40 CFR Part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

K. Inspection and Entry

The *owner or operator* must allow NYSDEC, the USEPA Regional Administrator, the applicable county health department, or any authorized representatives of those entities, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the *discharge*, upon the presentation of credentials and other documents as may be required by law, to:

1. enter upon the *owner's or operator's* premises where a regulated facility or activity is located or conducted or where records must be kept under the requirements of this permit; and

2. have access to and copy at reasonable times, any records that must be kept under the requirements of this permit, including records required to be maintained for purposes of operation and maintenance; and

3. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and

4. sample or monitor at reasonable times, for the purposes of assuring general SPDES permit compliance or as otherwise authorized by the CWA or ECL, any substances or parameters at any location; and

5. enter upon the property of any contributor to the regulated facility or activity under authority of the *owner or operator*.

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L. Confidentiality of Information

The following must not be held confidential: this permit, the fact sheet for this permit, the name and address of any *owner or operator*, effluent data, the Notice of Intent, and information regarding the need to obtain an individual permit or an alternative general SPDES permit. This includes information submitted on forms themselves and any attachments used to supply information required by the forms (except information submitted on usage of substances). Upon the request of the *owner or operator*, NYSDEC must make determinations of confidentiality in accordance with 6 NYCRR Part 616, except as set forth in the previous sentence. Any information accorded confidential status must be disclosed to the Regional Administrator upon his or her written request. Prior to disclosing such information to the Regional Administrator, NYSDEC will notify the Regional Administrator of the confidential status of such information.

M. Other Permits May Be Required

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

N. NYSDEC Orders or Civil Decrees/Judgments

The issuance of this permit by the NYSDEC, and the coverage under this permit by the *owner or operator*, does not supersede, revoke, or rescind any existing order on consent or civil Decree/Judgment, or modification to any such documents or to any order issued by the Commissioner, or any of the terms, conditions, or requirements contained in such order or modification therefore, unless expressly noted.

O. Property Rights

Coverage under this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining the assent of any other jurisdiction as required by law for the *discharge* authorized.

P. Compliance with Interstate Standards

If the *construction activity* covered by this permit originates within the jurisdiction of an interstate water pollution control agency, then the *construction activity* must also comply with any applicable effluent standards or *water quality standards* promulgated by that interstate agency and as set forth in this permit for such *construction activities*.

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Q. Oil and Hazardous Substance Liability

Coverage under this permit does not affect the imposition of responsibilities upon, or the institution of any legal action against, the *owner or operator* under section 311 of the CWA, which must be in conformance with regulations promulgated pursuant to section 311 governing the applicability of section 311 of the CWA to *discharges* from facilities with *NPDES* permits, nor must such issuance preclude the institution of any legal action or relieve the *owner or operator* from any responsibilities, liabilities, or penalties to which the *owner or operator* is or may be subject pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. section 9601 et seq. (CERCLA).

R. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, must not be affected thereby.

S. NYSDEC Approved Forms

The *owner or operator* must provide all relevant information that is requested by NYSDEC, and required by this permit, on all NYSDEC approved forms.

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APPENDIX A – Abbreviations and Definitions

Abbreviations

APO – Agency Preservation Officer
BB – New York State Standards and Specifications for Erosion and Sediment Control (Blue Book), dated November 2016
BMP – Best Management Practice
CPESC – Certified Professional in Erosion and Sediment Control
CPv – Channel Protection Volume
CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)
DM – New York State Stormwater Management Design Manual (Design Manual), dated July 31, 2024
DOW – Division of Water
EAF – Environmental Assessment Form
ECL – chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law
EPA – U.S. Environmental Protection Agency
HSG – Hydrologic Soil Group
MS4 – Municipal Separate Storm Sewer System
NOI – Notice of Intent
NOT – Notice of Termination
NPDES – National Pollutant Discharge Elimination System
NYC – The City of New York
NYCDEP – The City of New York Department of Environmental Protection
NYSDEC – The New York State Department of Environmental Conservation
OPRHP – Office of Parks, Recreation and Historic Places
Qf – Extreme Flood
Qp – Overbank Flood
RR – Runoff Reduction
RRv – Runoff Reduction Volume
RWE – Regional Water Engineer
SEQR – State Environmental Quality Review Act
SHPA – State Historic Preservation Act
SMP – Post-Construction Stormwater Management Practice
SPDES – State Pollutant Discharge Elimination System
SWPPP – Stormwater Pollution Prevention Plan
TMDL – Total Maximum Daily Load
UPA – Uniform Procedures Act
USDA – United States Department of Agriculture
WQv – Water Quality Volume

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Appendix A

Definitions

All definitions in this section are solely for the purposes of this permit. If a word is not italicized in the permit, use its common definition.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property – the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023).

Alter Hydrology from Pre- to Post-Development Conditions – the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer System – a sewer system which conveys sewage and *stormwater* through a single pipe system to a publicly owned treatment works.

Commence (Commencement of) Construction Activities – the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the *SWPPP*. See definition for "*Construction Activity(ies)*" also.

Common Plan of Development or Sale – a contiguous area where multiple separate and distinct *construction activities* are occurring, or may occur, under one plan. The "common plan" of development or sale is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQR) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating *construction activities* may occur on a specific plot. A *common plan of development or sale* is comprised of two or more *phases*.

Common plan of development or sale does not include separate and distinct *construction activities* that are occurring, or may occur, under one plan that are at least 1/4 mile apart provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

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Construction Activity(ies) – identified within 40 CFR 122.26(b)(14)(x), 122.26(b)(15)(i), and 122.26(b)(15)(ii), any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, mechanized logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal.

Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, which is excluded from the calculation of the soil disturbance for a project. Routine maintenance includes, but is not limited to:

- Re-grading of gravel roads or parking lots; and
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of the ditch; and
- Replacement of existing culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of a ditch; and
- Replacement of existing bridges that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity beneath the bridges; and
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch); and
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*; and
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material; and
- Long-term use of equipment storage areas at or near highway maintenance facilities; and
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*; and
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts; and
- Maintenance of ski trails including brush hog use and mowing; and
- Above ground snowmaking pipe replacement; and
- Replacement of existing utility poles; etc.

Construction Site – the land area where *construction activity(ies)* will occur. See also the definitions for "*Commence (Commencement of) Construction Activities"* and "*Common Plan of Development or Sale."*

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Dewatering – the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Directly Discharge(s)(ing) (to a specific surface waterbody) – runoff flows from a *construction site* by overland flow and the first point of *discharge* is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system and the first point of *discharge* from the separate storm sewer system is the specific surface waterbody.

Discharge(s)(d) – any addition of any *pollutant* to waters of the State through an outlet or *point source*.

Embankment – an earthen or rock slope that supports a road/highway.

Equivalent (Equivalence) – the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization – all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other *equivalent* stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

Historic Property – any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) – all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and compacted gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – not technologically possible, or not economically practicable and achievable considering best industry practices.

Minimize(ing)(ation) – reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer System (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

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1. owned or operated by a State, city, town, village, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, *stormwater*, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA, that *discharges* to *surface waters of the State*; and

2. designed or used for collecting or conveying *stormwater*; and

3. which is not a *combined sewer system*; and

4. which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

Natural Buffer(s) – an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – any land disturbance that does not meet the definition of *Redevelopment Activity* included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

Nonpoint Source(s) – any source of water pollution or *pollutants* which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank – flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator – the person, persons, or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit requirements.

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Performance Criteria – the six performance criteria for each group of SMPs in Chapters 5 and 6 of the technical standard, New York State Stormwater Management Design Manual (DM), dated July 31, 2024. These include feasibility, conveyance, pretreatment, treatment, landscaping, and maintenance. It does not include the *Sizing Criteria* (i.e. WQv, RRv, CPv, Qp and Qf) in Part I.C.2. of the permit.

Phase – a defined area in which *construction activities* are occurring or will occur separate from other defined area(s).

Point Source – any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be *discharged*.

Pollutant(s) – dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast *discharged* into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq.

Qualified Inspector – a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder or other NYSDEC endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any SMPs that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

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Qualified Professional – a person that is knowledgeable in the principles and practices of *stormwater* management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other NYSDEC endorsed individual(s). Individuals preparing *SWPPPs* that require the SMP component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the *SWPPP* that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – the disturbance and reconstruction of existing *impervious area*, including *impervious areas* that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Renewable Energy – electricity or thermal energy generated by renewable energy systems through use of the following technologies: solar thermal, photovoltaics, on land and offshore wind, hydroelectric, geothermal electric, geothermal ground source heat, tidal energy, wave energy, ocean thermal, and fuel cells which do not utilize a fossil fuel resource in the process of generating electricity.

Site Limitations – site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical *site limitations* include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of *site limitations* shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – the criteria included in Part I.C.2 of the permit that are used to size SMPs. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

Steep Slope – land area designated on the current United States Department of Agriculture (USDA) Soil Survey as Soil Slope Phase D, (provided the map unit name or description is inclusive of slopes greater than 25%), or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Stormwater – that portion of precipitation that, once having fallen to the ground, is in excess of the evaporative or infiltrative capacity of soils, or the retentive capacity of surface features, which flows or will flow off the land by surface runoff to waters of the State.

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Streambank – the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – a project specific report, including construction drawings, that among other things: describes the *construction activity(ies)*, identifies the potential sources of pollution at the *construction site*; describes and shows the *stormwater* controls that will be used to control the *pollutants* (i.e. erosion and sediment controls; for many projects, includes SMPs); and identifies procedures the *owner or operator* will implement to comply with the requirements of the permit. See Part III of the permit for a complete description of the information that must be included in the *SWPPP*.

Surface Waters of the State – shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization – exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Load (TMDL) – the sum of the allowable loads of a single *pollutant* from all contributing point and *nonpoint source*s. It is a calculation of the maximum amount of a *pollutant* that a waterbody can receive and still meet *water quality standards*, and an allocation of that amount to the *pollutant's* sources. A TMDL stipulates Waste Load Allocations (WLA) for *point source discharges*, Load Allocations (LA) for *nonpoint source*s, and a margin of safety (MOS).

Traditional Land Use Control MS4 Operator – a city, town, or village with land use control authority that is authorized to *discharge* under New York State DEC's SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Trained Contractor – an employee from the contracting (construction) company, identified in Part III.A.7., that has received four (4) hours of NYSDEC endorsed training

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in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.7., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity).

The *trained contractor* is responsible for the day-to-day implementation of the *SWPPP*.

Tree Clearing – *construction activities* limited to felling and removal of trees.

Tree clearing does not include hand felling and leaving the trees in place with no support from mechanized equipment, which is not considered *construction activity* requiring coverage under this permit.

Water Quality Standard – such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

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APPENDIX B – Required SWPPP Components by Project Type

Table 1
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following *construction activities* that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:

- Single-family home not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family residential subdivisions with 25% or less *impervious cover* at total site build-out and not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D
- Construction of a barn or other *agricultural building*, silo, stock yard or pen.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that include construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.

The following *construction activities* that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:

- All construction activities located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

Within the municipal boundaries of NYC:

- Stand-alone road reconstruction, where the total soil disturbance from only that road construction, is less than one (1) acre of land.

The following *construction activities*:

- Installation of underground linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains
- Environmental enhancement projects, such as wetland mitigation, *stormwater* retrofits, stream restoration, and resiliency projects that reconstruct shoreline areas to address sea level rise
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an *impervious cover*
- Cross-country ski trails, walking/hiking trails, and mountain biking trails, including a de minimis parking lot (maximum 10 spaces total, sized for passenger cars) with 35 feet minimum preservation of undisturbed area downgradient from the parking lot
- Dam rehabilitation (the structure of the dam itself)
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are not part of residential, commercial, or institutional development;
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path, or walking path.

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Table 1 (Continued)
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following *construction activities*:

- Slope stabilization
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics
- Spoil areas that will be covered with vegetation
- Vegetated open space (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) that do not *alter hydrology from pre- to post-development* conditions
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions
- Demolition where vegetation will be established, and no *redevelopment activity* is planned[1]
- Installation or replacement of either an overhead electric transmission line or a ski lift tower that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*.
- Solar array field areas that have tables elevated off the ground, spaced one table width apart, do not *alter hydrology from pre- to post-development conditions*, and address water quality volume and runoff reduction volume by maintaining sheet flow on slopes less than 8%.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that do not include construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions.
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary *impervious areas* that will be restored to pre-construction conditions once the *construction activity* is complete (in this context, "temporary" means the *impervious area* will be in place for two years or less)
- Other *construction activities* that do not include the construction or reconstruction of *impervious area*, and do not *alter hydrology from pre- to post-development* conditions, and are not listed in Table 2.

1. If the site is redeveloped in the future, a new eNOI must be submitted.

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Appendix B

Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPS)

The following *construction activities*:

- Single-family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family home that disturbs five (5) or more acres of land
- Single-family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of between 20,000 square feet and one (1) acre of land within the municipal boundaries of NYC with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single-family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a *common plan of development or sale* that will ultimately disturb five (5) or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Creation of 5,000 square feet or more of *impervious area* in the municipal boundaries of NYC
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) that involves soil disturbance greater than five acres.
- Structural agricultural conservation practices as identified in Table II in the “Agricultural Best Management Practice Systems Catalogue” (dated June 2023) that involves soil disturbance greater than five acres and include the construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.
- Facility buildings, including ski lodges, restroom buildings, pumphouses, ski lift terminals, and maintenance and groomer garages
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills; including creation of landfills or capping landfills.
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTWs, water treatment plants, and water storage tanks
- Golf courses
- Office complexes

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Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPS)

The following *construction activities*:

- Permanent laydown yards and equipment storage lots
- Playgrounds that include the construction or reconstruction of *impervious area*
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surfaces
- Road construction or reconstruction, outside the municipal boundaries of NYC
- Road construction within the municipal boundaries of NYC
- Stand-alone road reconstruction, within the municipal boundaries of NYC where the total soil disturbance from that road reconstruction involves soil disturbance of one (1) acre or more of land
- Parking lot construction or reconstruction (as with all Table 2 bullets, this includes parking lots constructed as part of the *construction activities* listed in Table 1, unless a Table 1 bullet specifies otherwise)
- Athletic fields (natural grass) that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations, and well drilling pads, surfaced with *impervious cover,* and constructed as part of an overhead electric transmission line, wind-power, cell tower, oil or gas well drilling, sewer or water main, ski lift, or other linear utility project
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of a residential, commercial or institutional development
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of highway construction or reconstruction
- Solar array field areas on slopes greater than 8% that cannot maintain sheet flow using management practices identified in the BB or the DM
- Solar array field areas on slopes less than 8% that will *alter the hydrology from pre- to post-development* conditions
- Solar array field areas with tables that are not elevated high enough to achieve *final stabilization* beneath the tables
- Traditional *impervious areas* associated with solar development (e.g. roads, buildings, transformers)
- Utility pads surfaced with *impervious cover*, including electric vehicle charging stations
- All other *construction activities* that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre- to post-development* conditions, and are not listed in Table 1

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APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators* of *construction activities* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs designed in conformance with the Enhanced Phosphorus Removal Standards included in the DM technical standard.

- Entire New York City Watershed located east of the Hudson River – Figure 1
- Onondaga Lake Watershed – Figure 2
- Greenwood Lake Watershed – Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

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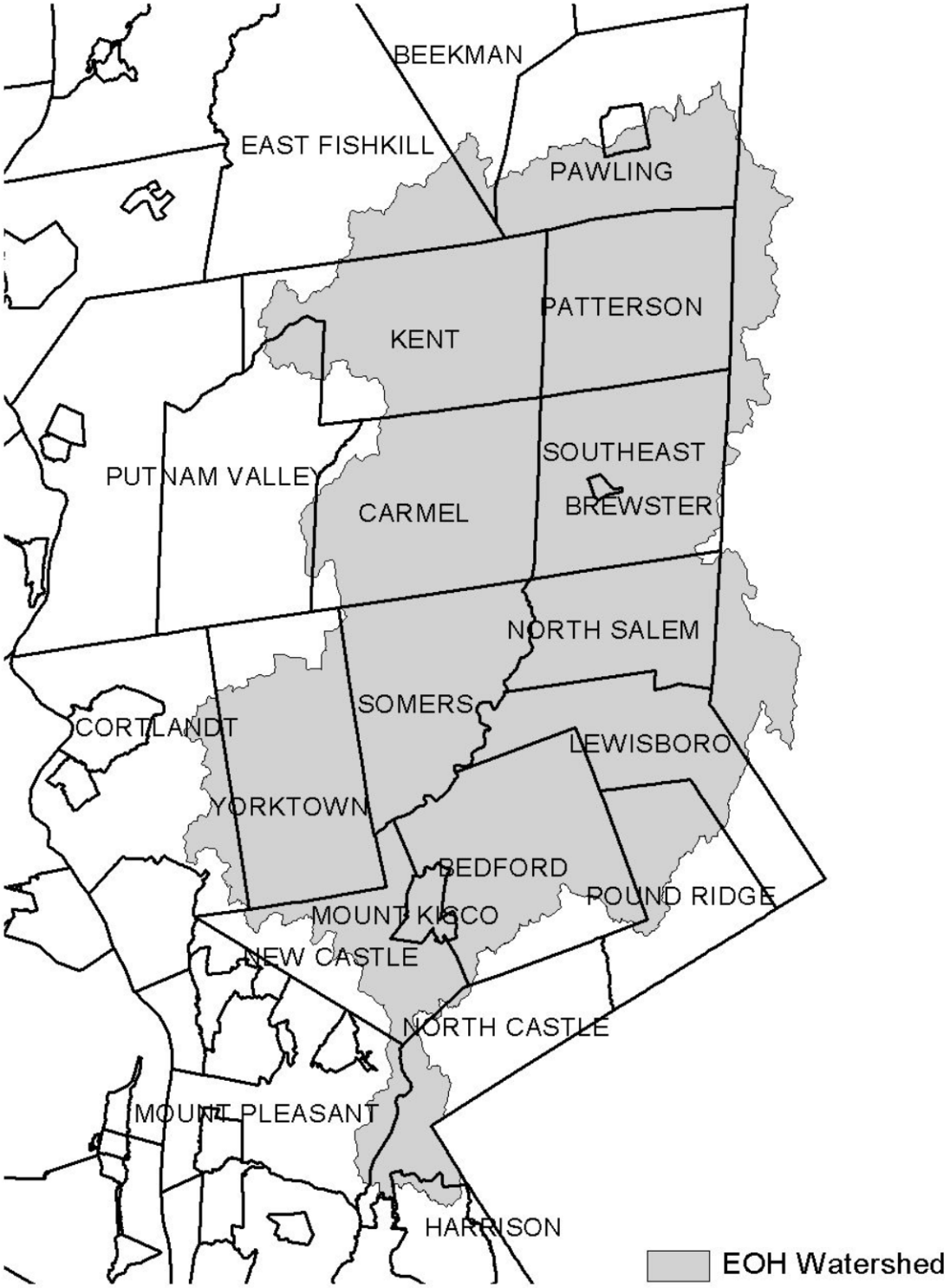
Appendix C

Figure 1 - New York City Watershed East of the Hudson



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Appendix C

Figure 2 - Onondaga Lake Watershed



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Appendix C

Figure 3 - Greenwood Lake Watershed

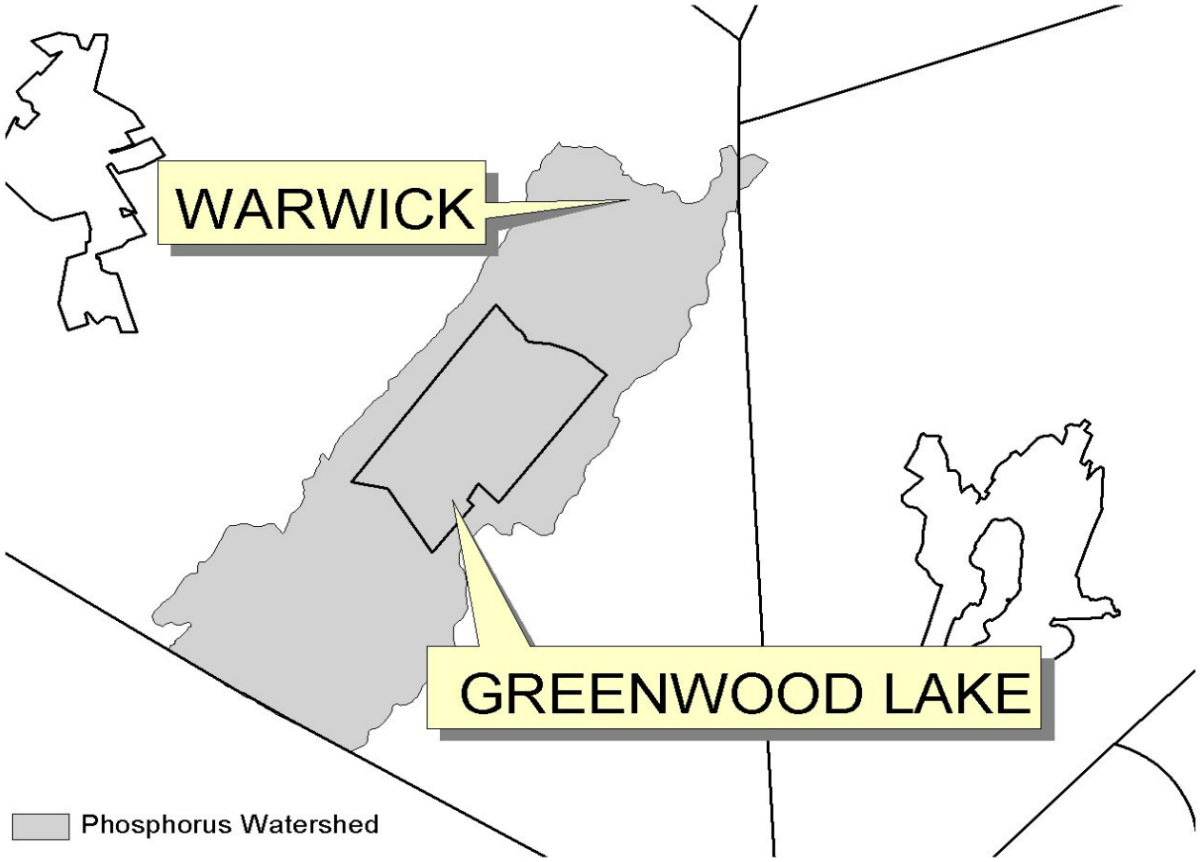

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Figure 4 - Oscawana Lake Watershed

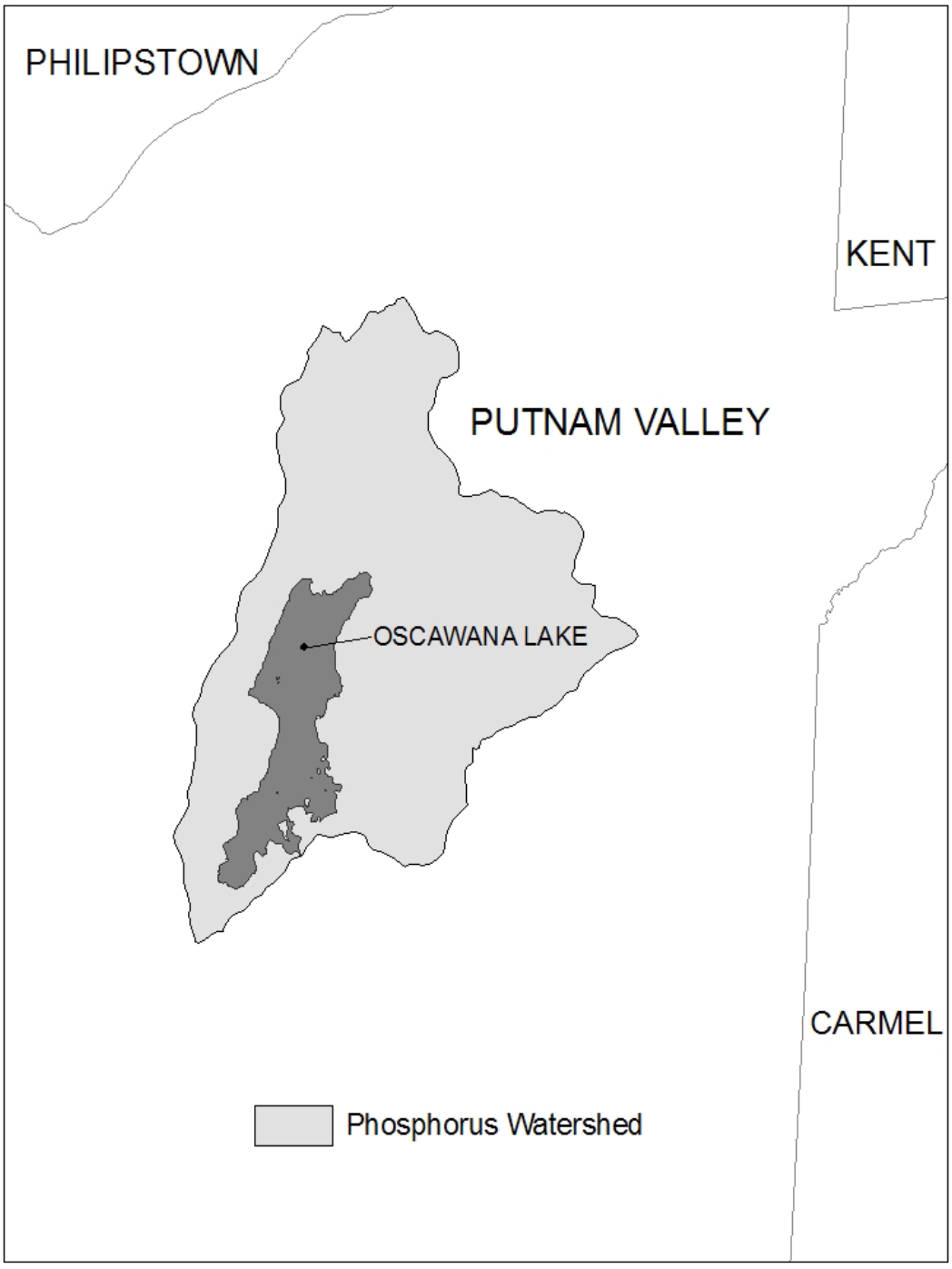

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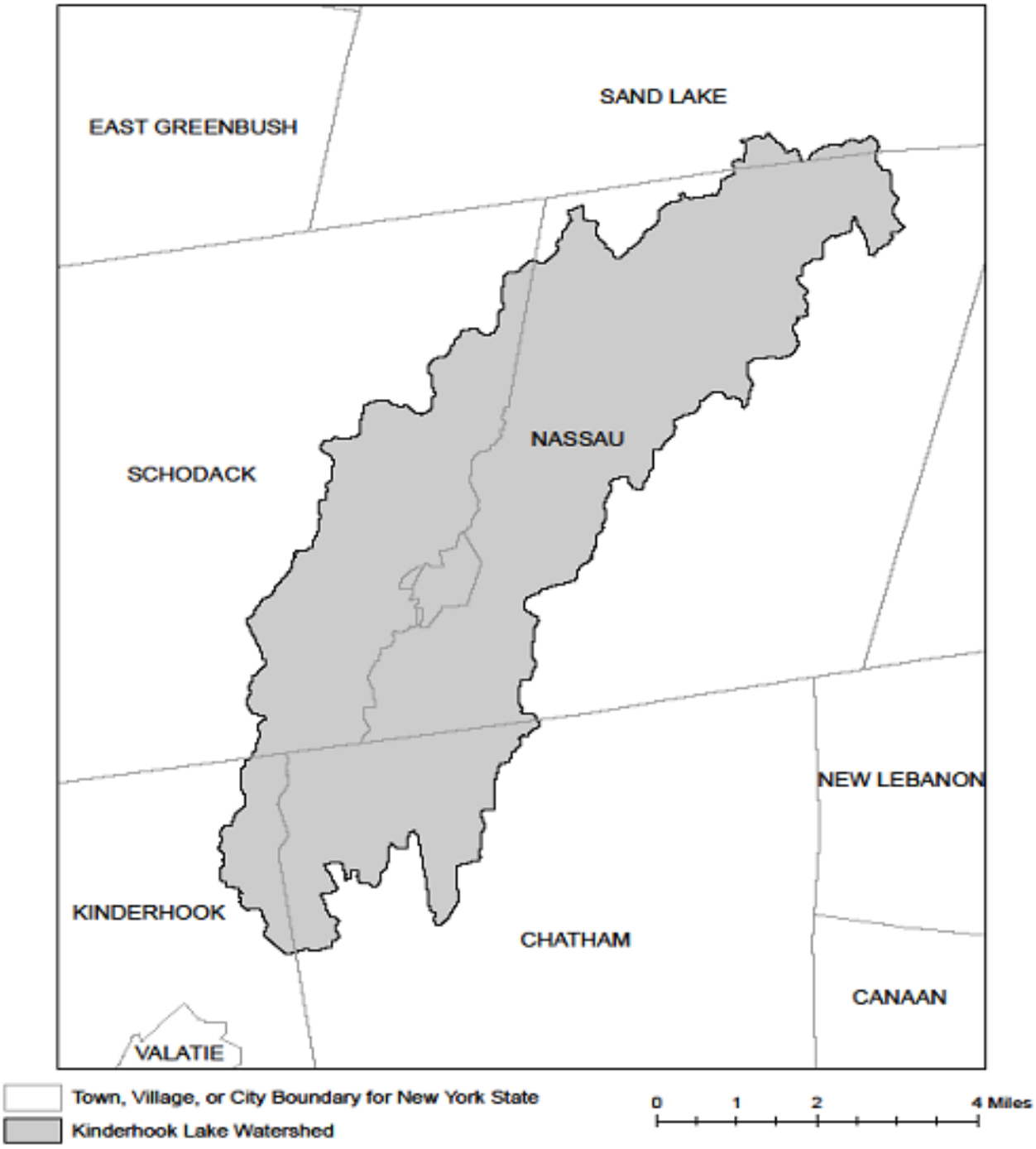
Figure 5 - Kinderhook Lake Watershed



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APPENDIX D – Impaired Waterbodies (by Construction Related Pollutants)

List of waterbodies impaired by *pollutants* related to *construction activity*, including turbidity, silt/sediment, and nutrients (e.g. nitrogen, phosphorus). This list is a subset of "The Final New York State 2018 Section 303(d) List of Impaired Waters Requiring a TMDL" dated June 2020.

County	Waterbody	Pollutant
Albany	Ann Lee (Shakers) Pond, Stump Pond (1201-0096)	Phosphorus
Albany	Lawsons Lake (1301-0235)	Phosphorus
Allegany	Amity Lake, Saunders Pond (0403-0054)	Phosphorus
Allegany	Andover Pond (0403-0056)	Phosphorus
Bronx	Reservoir No.1/Lake Isle (1702-0075)	Phosphorus
Bronx	Van Cortlandt Lake (1702-0008)	Phosphorus
Broome	Blueberry, Laurel Lakes (1404-0033)	Phosphorus
Broome	Fly Pond, Deer Lake (1404-0038)	Phosphorus
Broome	Minor Tribs to Lower Susquehanna (0603-0044)	Phosphorus
Broome	Whitney Point Lake/Reservoir (0602-0004)	Phosphorus
Cattaraugus	Allegheny River/Reservoir (0201-0023)	Phosphorus
Cattaraugus	Beaver Lake/Alma Pond (0201-0073)	Phosphorus
Cattaraugus	Case Lake (0201-0020)	Phosphorus
Cattaraugus	Linlyco/Club Pond (0201-0035)	Phosphorus
Cayuga	Duck Lake (0704-0025)	Phosphorus
Cayuga	Owasco Inlet, Upper, and tribs (0706-0014)	Nutrients
Chautauqua	Chadakoin River and tribs (0202-0018)	Phosphorus
Chautauqua	Hulburt/Clymer Pond (0202-0079)	Phosphorus
Chautauqua	Middle Cassadaga Lake (0202-0002)	Phosphorus
Clinton	Great Chazy River, Lower, Main Stem (1002-0001)	Silt/Sediment
Columbia	Robinson Pond (1308-0003)	Phosphorus
Cortland	Dean Pond (0602-0077)	Phosphorus
Dutchess	Fallkill Creek (1301-0087)	Phosphorus
Dutchess	Hillside Lake (1304-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Silt/Sediment
Erie	Beeman Creek and tribs (0102-0030)	Phosphorus
Erie	Delaware Park Pond (0101-0026)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Silt/Sediment
Erie	Green Lake (0101-0038)	Phosphorus
Erie	Little Sister Creek, Lower, and tribs (0104-0045)	Phosphorus
Erie	Murder Creek, Lower, and tribs (0102-0031)	Phosphorus

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Erie	Rush Creek and tribs (0104-0018)	Phosphorus
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Phosphorus
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Phosphorus
Erie	Scajaquada Creek, Upper, and tribs (0101-0034)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Silt/Sediment
Genesee	Bigelow Creek and tribs (0402-0016)	Phosphorus
Genesee	Black Creek, Middle, and minor tribs (0402 0028)	Phosphorus
Genesee	Black Creek, Upper, and minor tribs (0402-0048)	Phosphorus
Genesee	Bowen Brook and tribs (0102-0036)	Phosphorus
Genesee	LeRoy Reservoir (0402-0003)	Phosphorus
Genesee	Mill Pond (0402-0050)	Phosphorus
Genesee	Oak Orchard Cr, Upper, and tribs (0301-0014)	Phosphorus
Genesee	Oatka Creek, Middle, and minor tribs (0402-0031)	Phosphorus
Genessee	Tonawanda Cr, Middle, Main Stem (0102-0002)	Phosphorus
Greene	Schoharie Reservoir (1202-0012)	Silt/Sediment
Greene	Sleepy Hollow Lake (1301-0059)	Silt/Sediment
Herkimer	Steele Creek tribs (1201-0197)	Phosphorus
Herkimer	Steele Creek tribs (1201-0197)	Silt/Sediment
Kings	Hendrix Creek (1701-0006) 18	Nitrogen
Kings	Prospect Park Lake (1701-0196)	Phosphorus
Lewis	Mill Creek/South Branch, and tribs (0801-0200)	Nutrients
Livingston	Christie Creek and tribs (0402-0060)	Phosphorus
Livingston	Conesus Lake (0402-0004)	Phosphorus
Livingston	Mill Creek and minor tribs (0404-0011)	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs (0402-0033)	Phosphorus
Monroe	Buck Pond (0301-0017)	Phosphorus
Monroe	Cranberry Pond (0301-0016)	Phosphorus
Monroe	Durand, Eastman Lakes (0302-0037)	Phosphorus
Monroe	Lake Ontario Shoreline, Western (0301-0069) 9	Phosphorus
Monroe	Long Pond (0301-0015)	Phosphorus
Monroe	Mill Creek and tribs (0302-0025)	Phosphorus 2
Monroe	Mill Creek/Blue Pond Outlet and tribs (0402-0049)	Phosphorus
Monroe	Minor Tribs to Irondequoit Bay (0302-0038)	Phosphorus
Monroe	Rochester Embayment - East (0302-0002) [9]	Phosphorus
Monroe	Rochester Embayment - West (0301-0068) 9	Phosphorus
Monroe	Shipbuilders Creek and tribs (0302-0026)	Phosphorus 2
Monroe	Thomas Creek/White Brook and tribs (0302-0023)	Phosphorus

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Nassau	Bannister Creek/Bay (1701-0380)	Nitrogen
Nassau	Beaver Lake (1702-0152)	Phosphorus
Nassau	Browswere Bay (1701-0383)	Nitrogen
Nassau	Camaans Pond (1701-0052)	Phosphorus
Nassau	East Meadow Brook, Upper, and tribs (1701-0211)	Silt/Sediment
Nassau	East Rockaway Channel (1701-0381)	Nitrogen
Nassau	Glen Cove Creek, Lower, and tribs (1702-0146)	Silt/Sediment
Nassau	Grant Park Pond (1701-0054)	Phosphorus
Nassau	Hempstead Bay, Broad Channel (1701-0032)	Nitrogen
Nassau	Hempstead Lake (1701-0015)	Phosphorus
Nassau	Hewlett Bay (1701-0382)	Nitrogen
Nassau	Hog Island Channel (1701-0220)	Nitrogen
Nassau	Massapequa Creek, Upper, and tribs (1701-0174)	Phosphorus
Nassau	Milburn/Parsonage Creeks, Upp, and tribs (1701-0212)	Phosphorus
Nassau	Reynolds Channel, East (1701-0215) [12]	Nitrogen
Nassau	Reynolds Channel, West (1701-0216) 12	Nitrogen
Nassau	Tidal Tribs to Hempstead Bay (1701-0218)	Nitrogen
Nassau	Tribs (fresh) to East Bay (1701-0204)	Silt/Sediment
Nassau	Tribs (fresh) to East Bay (1701-0204)	Phosphorus
Nassau	Tribs to Smith Pond/Halls Pond (1701-0221)	Phosphorus
Nassau	Woodmere Channel (1701-0219)	Nitrogen
New York	Harlem Meer (1702-0103)	Phosphorus
New York	The Lake in Central Park (1702-0105)	Phosphorus
Niagara	Bergholtz Creek and tribs (0101-0004)	Phosphorus
Niagara	Hyde Park Lake (0101-0030)	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0053) 9	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0072) 9	Phosphorus
Oneida	Ballou, Nail Creeks (1201-0203)	Phosphorus
Onondaga	Ley Creek and tribs (0702-0001) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nitrogen (NH3, NO2)
Onondaga	Onondaga Creek, Lower (0702-0023) 10	Nutrients (phosphorus)
Onondaga	Onondaga Creek, Lower, and tribs (0702-0023)	Turbidity
Onondaga	Onondaga Creek, Middle, and tribs (0702-0004)	Turbidity
Onondaga	Onondaga Creek, Upper, and tribs (0702-0024)	Turbidity
Ontario	Great Brook and minor tribs (0704-0034)	Phosphorus 2
Ontario	Great Brook and minor tribs (0704-0034)	Silt/Sediment

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Ontario	Hemlock Lake Outlet and minor tribs (0402-0013)	Phosphorus
Ontario	Honeoye Lake (0402-0032)	Phosphorus
Orange	Brown Pond Reservoir (1303-0013)	Phosphorus
Orange	Lake Washington (1303-0012)	Phosphorus
Orange	Minor Tribs to Middle Wallkill (1306-0061)	Phosphorus
Orange	Monhagen Brook and tribs (1306-0074)	Phosphorus
Orange	Orange Lake (1301-0008) [16]	Phosphorus
Orange	Quaker Creek and tribs (1306-0025)	Phosphorus
Orange	Wallkill River, Middle, Main Stem (1306-0038)	Phosphorus
Orange	Wallkill River, Upper, and Minor tribs (1306-0017)	Phosphorus
Orleans	Glenvwood Lake (0301-0041)	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0070) 9	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0071) 9	Phosphorus
Oswego	Lake Neatahwanta (0701-0018)	Nutrients (phosphorus)
Oswego	Pleasant Lake (0703-0047)	Phosphorus
Putnam	Lost Lake, Putnam Lake (1302-0053)	Phosphorus
Putnam	Minor Tribs to Croton Falls Reservoir (1302-0001)	Phosphorus
Queens	Bergen Basin (1701-0009) 18	Nitrogen
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Nitrogen
Queens	Kissena Lake (1702-0258)	Phosphorus
Queens	Meadow Lake (1702-0030)	Phosphorus
Queens	Shellbank Basin (1701-0001) 18	Nitrogen
Queens	Willow Lake (1702-0031)	Phosphorus
Rensselaer	Nassau Lake (1310-0001)	Phosphorus
Rensselaer	Snyders Lake (1301-0043)	Phosphorus
Richmond	Grassmere Lake/Bradys Pond (1701-0357)	Phosphorus
Rockland	Congers Lake, Swartout Lake (1501-0019)	Phosphorus
Rockland	Rockland Lake (1501-0021)	Phosphorus
Saratoga	Ballston Lake (1101-0036)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Silt/Sediment
Saratoga	Lake Lonely (1101-0034)	Phosphorus
Saratoga	Round Lake (1101-0060)	Phosphorus
Saratoga	Tribs to Lake Lonely (1101-0001)	Phosphorus
Schenectady	Collins Lake (1201-0077)	Phosphorus
Schenectady	Duane Lake (1311-0006)	Phosphorus
Schenectady Lake	Mariaville Lake (1201-0113)	Phosphorus
Schuyler	Cayuta Lake (0603-0005)	Phosphorus

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Seneca	Reeder Creek and tribs (0705-0074)	Phosphorus
St.Lawrence	Black Lake Outlet, Black Lake (0906-0001)	Phosphorus
St.Lawrence	Fish Creek and minor tribs (0906-0026)	Phosphorus
Steuben	Smith Pond (0502-0012)	Phosphorus
Suffolk	Agawam Lake (1701-0117)	Phosphorus
Suffolk	Big/Little Fresh Ponds (1701-0125)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Silt/Sediment
Suffolk	Fresh Pond (1701-0241)	Phosphorus
Suffolk	Great South Bay, East (1701-0039)	Nitrogen
Suffolk	Great South Bay, Middle (1701-0040)	Nitrogen
Suffolk	Great South Bay, West (1701-0173)	Nitrogen
Suffolk	Lake Ronkonkoma (1701-0020)	Phosphorus
Suffolk	Mattituck/Marratooka Pond (1701-0129)	Phosphorus
Suffolk	Mill and Seven Ponds (1701-0113)	Phosphorus
Suffolk	Millers Pond (1702-0013)	Phosphorus
Suffolk	Moriches Bay, East (1701-0305)	Nitrogen
Suffolk	Moriches Bay, West (1701-0038)	Nitrogen
Suffolk	Quantuck Bay (1701-0042)	Nitrogen
Suffolk	Shinnecock Bay and Inlet (1701-0033)	Nitrogen
Suffolk	Tidal Tribs to West Moriches Bay (1701-0312)	Nitrogen
Sullivan	Bodine, Mongomery Lakes (1401-0091)	Phosphorus
Sullivan	Davies Lake (1402-0047)	Phosphorus
Sullivan	Evens Lake (1402-0004)	Phosphorus
Sullivan	Pleasure Lake (1402-0055)	Phosphorus
Sullivan	Swan Lake (1401-0063)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Silt/Sediment
Ulster	Ashokan Reservoir (1307-0004)	Silt/Sediment
Ulster	Esopus Creek, Lower, Main Stem (1307-0010) [17]	Turbidity
Ulster	Esopus Creek, Middle, Main Stem (1307-0003) 17	Turbidity
Ulster	Esopus Creek, Upper, and minor tribs (1307-0007)[3]	Silt/Sediment
Ulster	Wallkill River, Lower, Main Stem (1306-0027)	Phosphorus
Warren	Hague Brook and tribs (1006-0006)	Silt/Sediment
Warren	Huddle/Finkle Brooks and tribs (1006-0003)	Silt/Sediment
Warren	Indian Brook and tribs (1006-0002)	Silt/Sediment
Warren	Lake George (1006-0016) and tribs	Silt/Sediment
Warren	Tribs to Lake George, East Shore (1006-0020)	Silt/Sediment
Warren	Tribs to Lake George, Lk.George Village (1006-0008)	Silt/Sediment

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Washington	Wood Cr/Champlain Canal and tribs (1005-0036)	Phosphorus
Westchester	Lake Katonah (1302-0136)	Phosphorus
Westchester	Lake Lincolndale (1302-0089)	Phosphorus
Westchester	Lake Meahagh (1301-0053)	Phosphorus
Westchester	Lake Mohegan (1301-0149)	Phosphorus
Westchester	Lake Shenorock (1302-0083)	Phosphorus
Westchester	Mamaroneck River, Lower (1702-0071)	Silt/Sediment
Westchester	Mamaroneck River, Upp, & minor tribs (1702-0123)	Silt/Sediment
Westchester	Saw Mill River (1301-0007)	Phosphorus
Westchester	Saw Mill River, Middle, and tribs (1301-0100)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Silt/Sedimnt
Westchester	Silver Lake (1702-0040)	Phosphorus
Westchester	Teatown Lake (1302-0150)	Phosphorus
Westchester	Truesdale Lake (1302-0054)	Phosphorus
Westchester	Wallace Pond (1301-0140)	Phosphorus

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APPENDIX E – List of NYSDEC Regional Offices

Region	Covering the following counties:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) Permit Administrators	DIVISION OF WATER (DOW) Water (SPDES) Program
1	Nassau and Suffolk	50 Circle Road Stony Brook, NY 11790 Tel. (631) 444-0365	50 Circle Road Stony Brook, NY 11790-3409 Tel. (631) 444-0405
2	Bronx, Kings, New York, Queens and Richmond	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4997	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4933
3	Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester	21 South Putt Corners Road New Paltz, NY 12561-1696 Tel. (845) 256-3059	220 White Plains Road, Suite 110 Tel. (914) 428 - 2505
4	Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2069	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2045
5	Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington	1115 State Route 86, Po Box 296 Ray Brook, NY 12977-0296 Tel. (518) 897-1234	232 Golf Course Road Warrensburg, NY 12885-1172 Tel. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7438	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7165	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7070

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Appendix F

Forms

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

NEW YORK STATE | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:	Proposed Warehouse Building
eNOI Submission ID:	
Owner/Operator Name:	Stephens Property Holdings, LLC/Kevin Stephens/Amherst

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Chris		Wood
SWPPP Preparer First Name	MI	SWPPP Preparer Last Name



Signature

7/07/2025

Date

Revised: January 2025

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STORM WATER POLLUTION PREVENTION PLAN
CONTRACTOR'S CERTIFICATION STATEMENT

Warehouse Development

CONTRACTOR'S CERTIFICATION:

"I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP for the construction site identified in such SWPPP as a condition of authorization to discharge storm water. I also understand that the operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System (SPDES) general permit for storm water discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards."

Note: The contractor shall have at least one NYSDEC trained individual onsite at all times when earthwork and other SWPPP associated work is being performed from each contractor(s) and subcontractor(s). Each contractor(s) and subcontractor(s) shall provide copies of these individuals' certifications to the Town of Amherst.

Name: _____
(Print)

Signature: _____

Title: _____

Company Name: _____

Address: _____

Telephone Number: _____

Date: _____

Scope of Services: _____

Trained Individual(s) Responsible for Implementation: _____

This form must be signed by a responsible corporate officer or other party meeting the "Signatory Requirements" of the NYSDEC SPDES General Permit

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NEW YORK STATE | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.

Project/Site Name: Proposed Warehouse

eNOI Submission ID: _____

eNOI Submitted by: ☐ **Owner/Operator** ☑ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KEVIN — Owner/Operator First Name

J — M.I.

STEPHENS — Last Name

Signature

7/07/25

Date

Revised: January 2025

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Appendix G

NYSDEC Notice of Termination (NOT)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505
(NOTE: Submit completed form to address above)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity

Please indicate your permit identification number: NYR ___ ___ ___ ___ ___ ___

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person: | 4a.Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. □ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. ***Date final stabilization completed** (month/year): _____

9b. □ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR ___ ___ ___ ___ ___ ___
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. □ Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? □ yes □ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? □ yes □ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

_____

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NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? □ yes □ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

□ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.

□ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).

□ For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.

□ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____ (acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? □ yes □ no

(If Yes, complete section VI - "MS4 Acceptance" statement

V. Additional Information/Explanation:

(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:	
Title/Position:	
Signature:	Date:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

VII. Qualified Inspector Certification - Final Stabilization:

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

IX. Owner or Operator Certification

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

(NYS DEC Notice of Termination - January 2015)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix H

Construction Documents

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Proposed Warehouse Building

Amherst, New York

AGENCIES

ENGINEERING DEPARTMENT
NAME/TITLE: JEFFERY BURROUGHS, P.E. – TOWN ENGINEER
COMPANY/DEPT: TOWN OF AMHERST ENGINEERING DEPARTMENT
ADDRESS: 1100 NORTH FOREST ROAD
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7154

PLANNING & ZONING DEPARTMENT
NAME/TITLE: DANIEL HOWARD – PLANNING DIRECTOR
COMPANY/DEPT: TOWN OF AMHERST PLANNING DEPARTMENT
ADDRESS: 5583 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7051

BUILDING DEPT.
NAME/TITLE: BERKE, MARK S. – COMMISSIONER OF BUILDING
COMPANY/DEPT.: TOWN OF AMHERST BUILDING DEPT.
ADDRESS: 5583 MAIN ST.
AMHERST, NEW YORK 14221
TELEPHONE 716–631–7080

ECDOH
NAME/TITLE:
COMPANY/DEPT:. ERIE COUNTY DEPARTMENT OF HEALTH
ADDRESS: 503 KENSINGTON AVE
BUFFALO, NEW YORK 14214
TELEPHONE 716–961–6854

NYSDEC
NAME/TITLE:
COMPANY/DEPT: NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
ADDRESS: 700 DELAWARE AVE.
BUFFALO, NEW YORK 14209
TELEPHONE 716–851–7070

UTILITIES

NATURAL GAS
COMPANY/DEPT:. NATIONAL FUEL GAS CORP.
ADDRESS: 6363 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–857–7000

TELEPHONE COMPANY
COMPANY/DEPT: VERIZON
ADDRESS: 65 FRANKLIN STREET
BUFFALO, NEW YORK 14203
TELEPHONE 716–840–8748

CABLE COMPANY
COMPANY/DEPT: TIME WARNER
ADDRESS: 789 CHURCH ROAD
WEST SENECA, NEW YORK
TELEPHONE 716–558–8615

ELECTRIC COMPANY
COMPANY/DEPT: NATIONAL GRID
ADDRESS: 144 KENSINGTON AVENUE
BUFFALO, NEW YORK 14214
TELEPHONE 716–236–2738

WATER
COMPANY/DEPT:. ERIE COUNTY WATER AUTHORITY
ADDRESS: 3030 UNION ROAD
CHEEKTOWAGA, NEW YORK 14227
TELEPHONE 716–684–1510

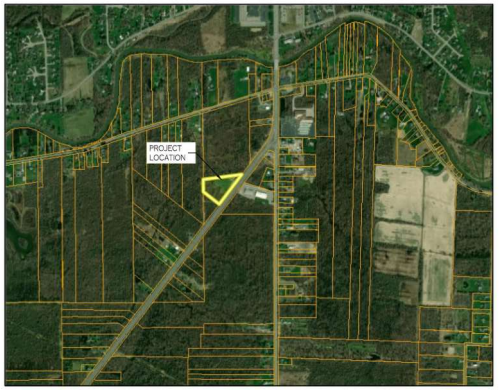
DIG SAFELY NEW YORK
TELEPHONE 1–800–962–7962

DESIGN CONSULTANTS

PROJECT SURVEYOR
NAME/TITLE:
COMPANY/DEPT:. GPI ENGINEERING, LANDSCAPE, ARCHITECTURE & SURVEYING, LLP
ADDRESS: 4950 GENESEE STREET, SUITE 100
BUFFALO, NEW YORK 14225
TELEPHONE 716–633–4844

OWNER/DEVELOPER

NAME: STEPHENS PLUMBING
ADDRESS 5500 MILLERSPORT HIGHWAY
EAST AMHERST, NY 14051
CONTACT: KEVIN STEPHENS
TELEPHONE 716-512-9451



LOCATION MAP
NOT TO SCALE

CARMINAWOOD DESIGN

November 2024
Rev. July 2025

DRAWING NO.	DRAWING TITLE
–	COVER SHEET
–	LAND SURVEY (PREPARED BY GPI ENGINEERING)
C–001	EROSION CONTROL PLAN
C–002	EROSION CONTROL DETAILS
C–100	SITE PLAN
C–101	SITE DETAILS
C–200	GRADING PLAN
C–300	STORM DRAINAGE PLAN
C–301	BASIN DETAILS
C–302	STORM DRAINAGE DETAILS
C–400	UTILITY PLAN
C–401	UTILITY DETAILS
C–402	UTILITY DETAILS
C–403	UTILITY DETAILS
C–404	UTILITY DETAILS
L–100	LANDSCAPE PLAN
L–101	LANDSCAPE DETAILS
LP–100	LIGHTING PLAN
LP–101	LIGHTING DETAILS
FT–100	FIRE TRUCK TURN PLAN

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

Proposed Warehouse Building
Amherst, New York

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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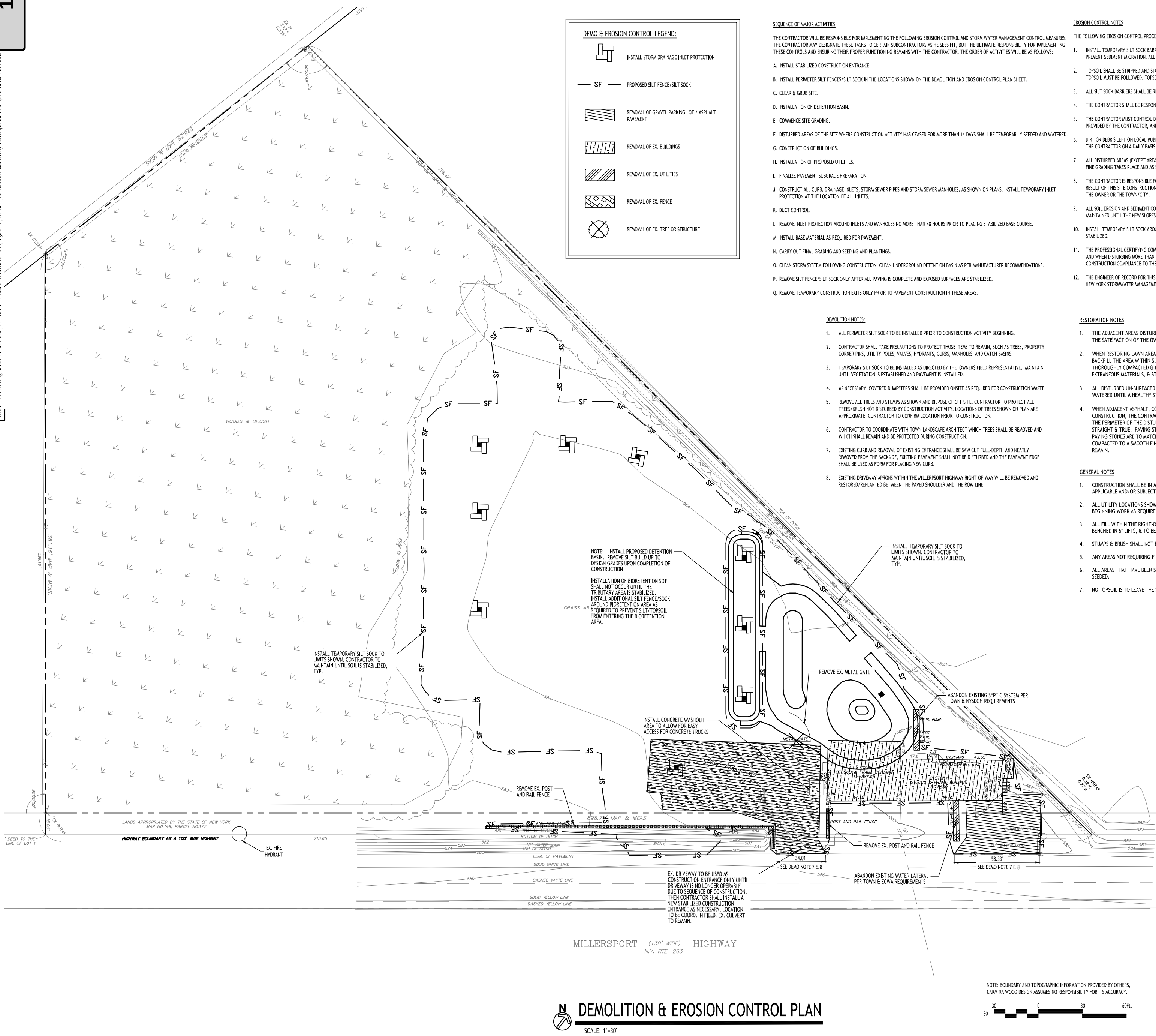

DEMOLITION & EROSION CONTROL PLAN

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

DEMO & EROSION CONTROL LEGEND:

- INSTALL STORM DRAINAGE INLET PROTECTION
- SF — PROPOSED SILT FENCE/SILT SOCK
- REMOVAL OF GRAVEL PARKING LOT / ASPHALT PAVEMENT
- REMOVAL OF EX. BUILDINGS
- REMOVAL OF EX. UTILITIES
- REMOVAL OF EX. FENCE
- REMOVAL OF EX. TREE OR STRUCTURE

SEQUENCE OF MAJOR ACTIVITIES

THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING EROSION CONTROL AND STORM WATER MANAGEMENT CONTROL MEASURES. THE CONTRACTOR MAY DESIGNATE THESE TASKS TO CERTAIN SUBCONTRACTORS AS HE SEES FIT, BUT THE ULTIMATE RESPONSIBILITY FOR IMPLEMENTING THESE CONTROLS AND ENSURING THEIR PROPER FUNCTIONING REMAINS WITH THE CONTRACTOR. THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

A. INSTALL STABILIZED CONSTRUCTION ENTRANCE
B. INSTALL PERIMETER SILT FENCES/SILT SOCK IN THE LOCATIONS SHOWN ON THE DEMOLITION AND EROSION CONTROL PLAN SHEET.
C. CLEAR & GRUB SITE.
D. INSTALLATION OF DETENTION BASIN.
E. COMMENCE SITE GRADING.
F. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
G. CONSTRUCTION OF BUILDINGS.
H. INSTALLATION OF PROPOSED UTILITIES.
I. FINALIZE PAVEMENT SUBGRADE PREPARATION.
J. CONSTRUCT ALL CURBS, DRAINAGE INLETS, STORM SEWER PIPES AND STORM SEWER MANHOLES, AS SHOWN ON PLANS. INSTALL TEMPORARY INLET PROTECTION AT THE LOCATION OF ALL INLETS.
K. DUCT CONTROL.
L. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
M. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
N. CARRY OUT FINAL GRADING AND SEEDING AND PLANTINGS.
O. CLEAN STORM SYSTEM FOLLOWING CONSTRUCTION. CLEAN UNDERGROUND DETENTION BASIN AS PER MANUFACTURER RECOMMENDATIONS.
P. REMOVE SILT FENCE/SILT SOCK ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.
Q. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS.

EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY SILT SOCK BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT SOCK BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE OF TOPSOIL MUST BE FOLLOWED. TOPSOIL MAY NOT BE REMOVED WITHOUT A PERMIT.
3. ALL SILT SOCK BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND SPREAD WATER AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN/CITY.
9. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
10. INSTALL TEMPORARY SILT SOCK AROUND THE BASE OF STOCKPILES. STOCKPILES NOT BEING ACTIVELY USED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED.
11. THE PROFESSIONAL CERTIFYING COMPLIANCE TO NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS MUST INSPECT AT A MINIMUM WEEKLY, AND WHEN DISTURBING MORE THAN 5 ACRES TWICE A WEEK, AND SHALL PROVIDE THESE INSPECTION REPORT WITH A WRITTEN CERTIFICATION OF CONSTRUCTION COMPLIANCE TO THE TOWN OF AMHERST (BIWEEKLY).
12. THE ENGINEER OF RECORD FOR THIS PROJECT CERTIFIES THAT THESE DESIGN PLANS MEET THE REQUIREMENTS AND ARE IN COMPLIANCE WITH THE NEW YORK STORMWATER MANAGEMENT DESIGN MANUAL AND NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS.

DEMOLITION NOTES:

1. ALL PERIMETER SILT SOCK TO BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITY BEGINNING.
2. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES AND CATCH BASINS.
3. TEMPORARY SILT SOCK TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
4. AS NECESSARY, COVERED DUMPSTERS SHALL BE PROVIDED ONSITE AS REQUIRED FOR CONSTRUCTION WASTE.
5. REMOVE ALL TREES AND STUMPS AS SHOWN AND DISPOSE OF OFF SITE. CONTRACTOR TO PROTECT ALL TREES/BRUSH NOT DISTURBED BY CONSTRUCTION ACTIVITY. LOCATIONS OF TREES SHOWN ON PLAN ARE APPROXIMATE, CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.
7. EXISTING CURB AND REMOVAL OF EXISTING ENTRANCE SHALL BE SAW CUT FULL-DEPTH AND NEATLY REMOVED FROM THE BACKSIDE, EXISTING PAVEMENT SHALL NOT BE DISTURBED AND THE PAVEMENT EDGE SHALL BE USED AS FORM FOR PLACING NEW CURB.
8. EXISTING DRIVEWAY APRONS WITHIN THE MILLERSPORT HIGHWAY RIGHT-OF-WAY WILL BE REMOVED AND RESTORED/REPLANTED BETWEEN THE PAVED SHOULDER AND THE ROW LINE.

RESTORATION NOTES

1. THE ADJACENT AREAS DISTURBED OR DAMAGED DURING CONSTRUCTION MUST BE RESTORED IN KIND TO THE SATISFACTION OF THE OWNER.
2. WHEN RESTORING LAWN AREAS ADJACENT TO NEW CONSTRUCTION, ON-SITE MATERIAL MAY BE USED TO BACKFILL THE AREA WITHIN SIX INCHES OF THE FINISHED SURFACE. ON-SITE MATERIAL SHALL BE THOROUGHLY COMPACTED & FREE OF GRASS CLUMPS, TREE ROOTS PIECES OF ASPHALT & OTHER EXTRANEOUS MATERIALS, & STONES LARGER THAN 1 INCH IN SIZE.
3. ALL DISTURBED UN-SURFACED AREAS SHALL RECEIVE FOUR INCHES OF TOPSOIL, SEED & MULCH & SHALL BE WATERED UNTIL A HEALTHY STRAND OF GRASS IS OBTAINED.
4. WHEN ADJACENT ASPHALT, CONCRETE OR PAVING STONE AREAS ARE DISTURBED AS PART OF THE CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO REPLACE THE DAMAGED OR EXCAVATED AREA. THE PERIMETER OF THE DISTURBED AREA SHALL BE SAW CUT FULL DEPTH, SO THAT ALL LINES ARE STRAIGHT & TRUE. PAVING STONES SHALL BE REPLACED IN WHOLE UNITS ONLY, & ALL REPLACEMENT PAVING STONES ARE TO MATCH THE EXISTING ONES IN SIZE, SHAPE & COLOR. ASPHALT SHALL BE COMPACTED TO A SMOOTH FINISH & SHALL BE FLUSH WITH THE EXISTING ADJACENT AREA THAT IS TO REMAIN.

GENERAL NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF AMHERST SPECIFICATIONS WHERE APPLICABLE AND/OR SUBJECT TO THE LATEST REVISIONS BY THE TOWN ENGINEER.
2. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL LOCATIONS BEFORE BEGINNING WORK AS REQUIRED BY APPLICABLE LAWS & REGULATIONS.
3. ALL FILL WITHIN THE RIGHT-OF-WAY & UTILITY AREAS IS TO BE COMPACTED TO 95% MOD-PROCTOR, BENCHED IN 6" LIFTS, & TO BE COMPLETED PRIOR TO UTILITY & ROADWAY CONSTRUCTION.
4. STUMPS & BRUSH SHALL NOT BE BURIED IN THE TOWN.
5. ANY AREAS NOT REQUIRING FILL OR RE-GRADING SHALL NOT BE STRIPPED OF TOPSOIL.
6. ALL AREAS THAT HAVE BEEN STRIPPED ARE TO RECEIVE A MINIMUM OF 4-INCHES OF TOPSOIL, GRADED & SEEDED.
7. NO TOPSOIL IS TO LEAVE THE SITE AFTER THE TOWN RECEIVES DEDICATION.

TOWN OF AMHERST APPROVAL BOX:

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

CARMINAWOOD DES
Buffalo | Utica

STATE OF NEW YORK ★ CHRISTOPHER WOOD ★ 078394 ★ LICENSED PROFESSIONAL ENGINEER
Sealed 07/07/2025

DRAWING NAME:
Demolition & Erosion Control Plan

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-001

Project No: 24.4019

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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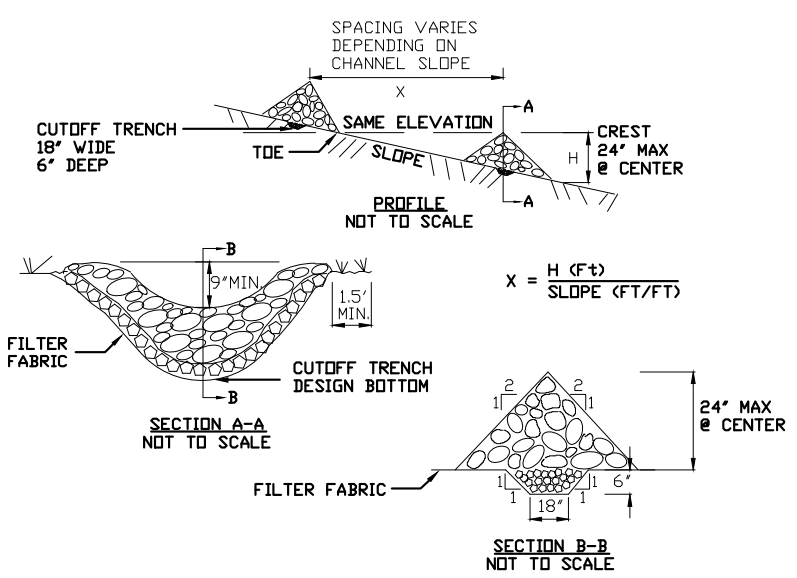


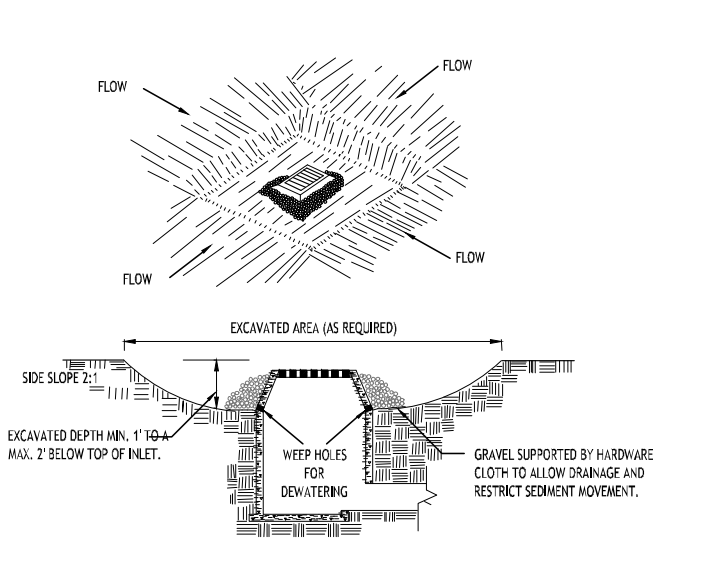
CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

STONE CHECK DAM DETAIL

NOT TO SCALE



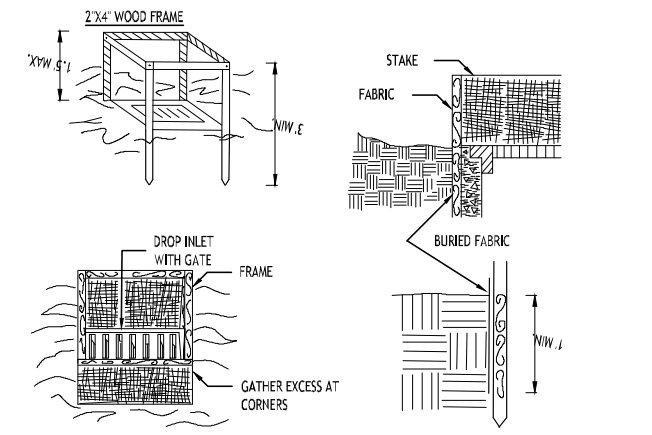
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



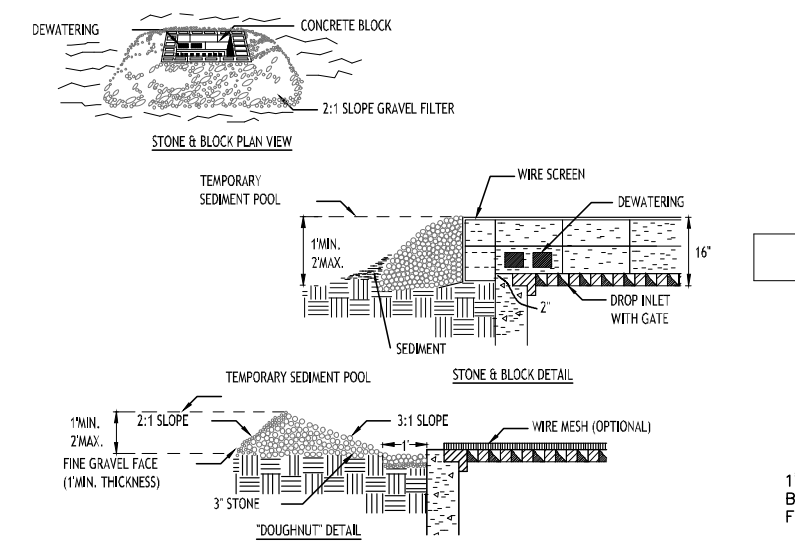
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

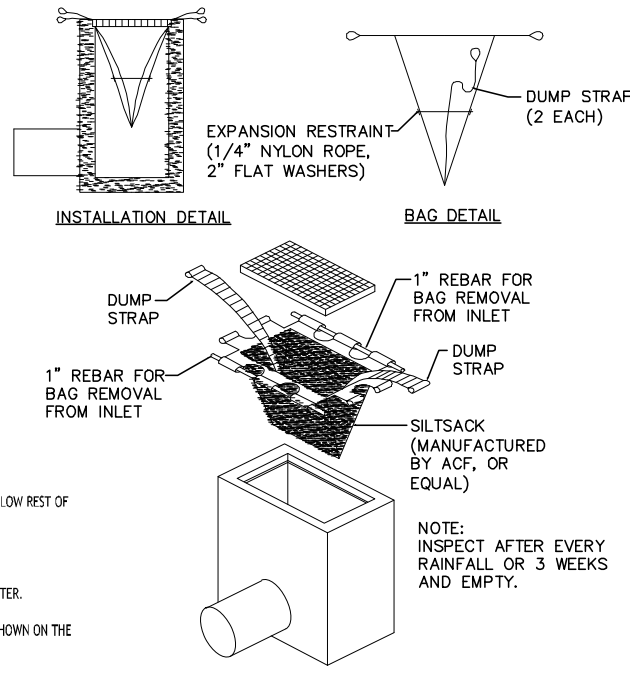
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

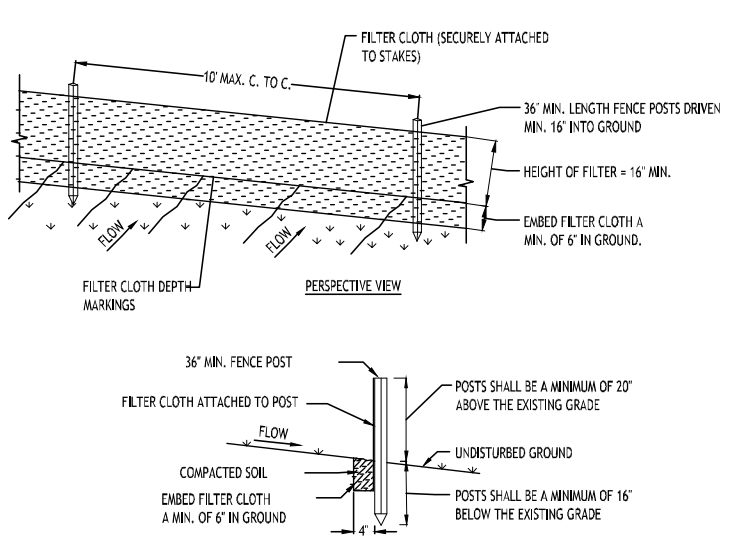
NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION



SILT SACK DETAIL

NOT TO SCALE

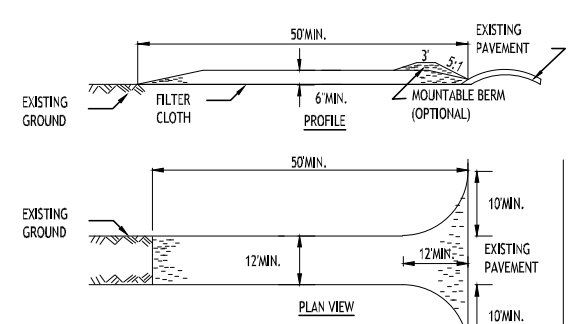


CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

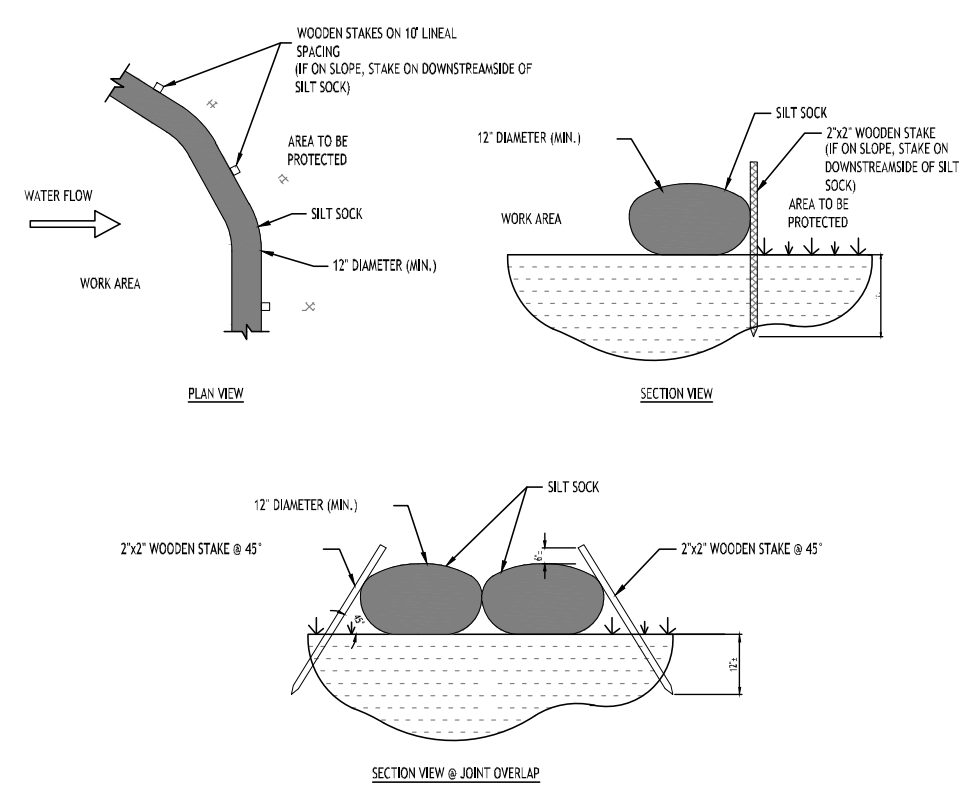


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



NOTES:

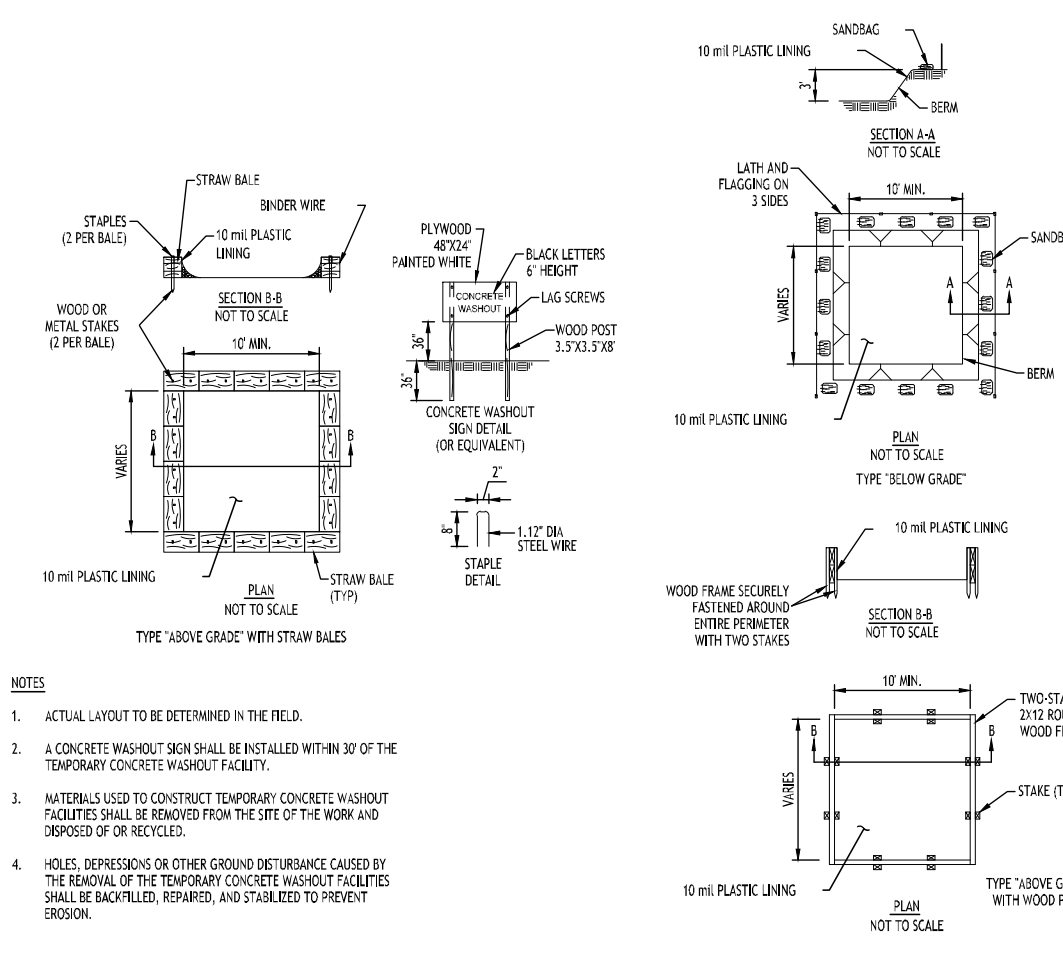
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

SILT SOCK DETAIL

NOT TO SCALE



NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

CONCRETE WASHOUT DETAIL

NOT TO SCALE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DES
Buffalo | Utica

Proposed Warehouse Building
5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK · H CHRISTOPHER WOOD · 076394 · LICENSED PROFESSIONAL ENGINEER
Sealed 07/07/2025

DRAWING NAME:
Demolition & Erosion Control Details

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-002

Project No: 24.4019

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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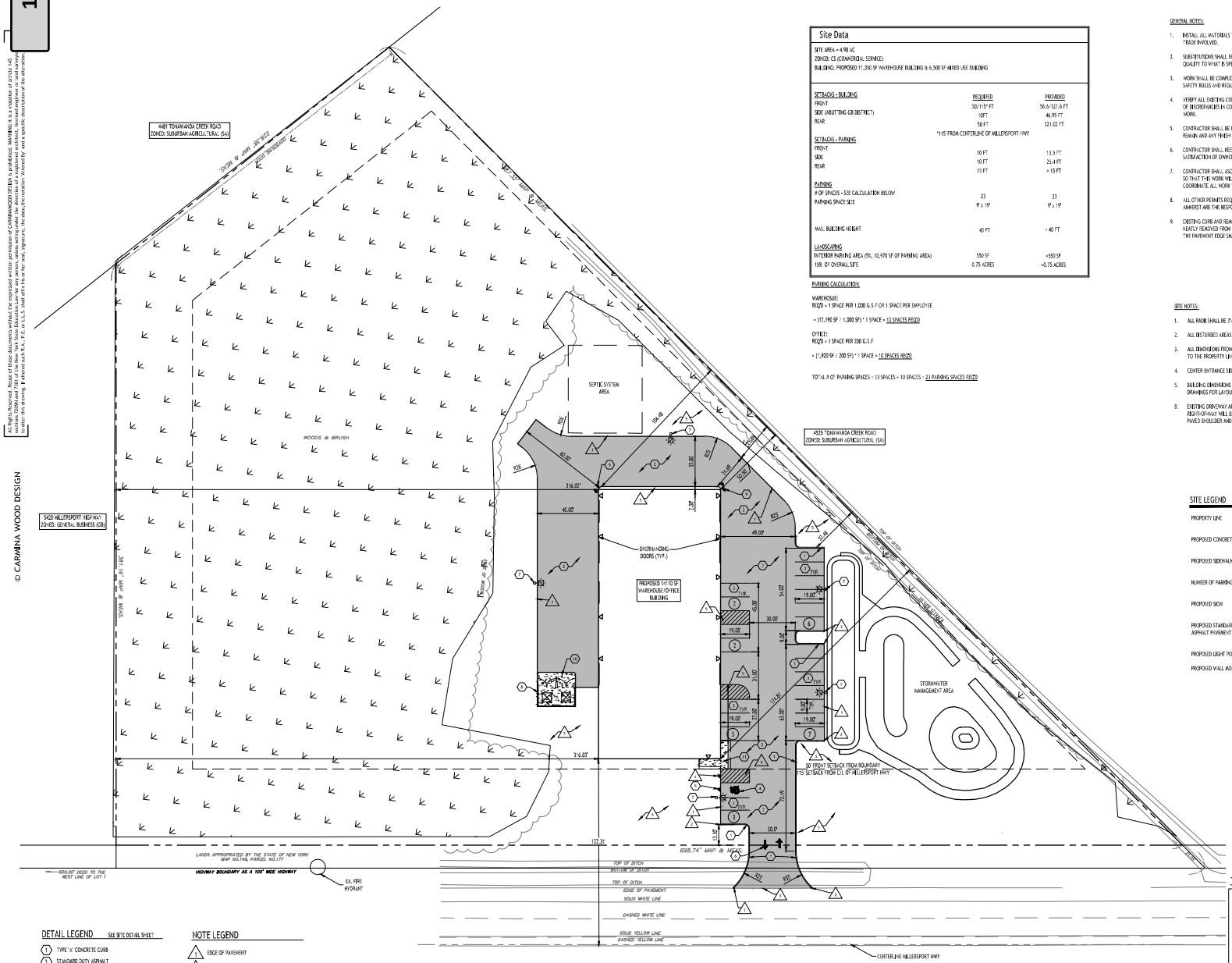

Site Data

SITE AREA = 4.98 AC
ZONED: CS (COMMERCIAL SERVICE)
BUILDING: PROPOSED 11,350 SF WAREHOUSE BUILDING & 6,500 SF MIXED USE BUILDING

	REQUIRED	PROVIDED
SETBACKS - BUILDING		
FRONT	50'/115* FT	56.6/121.6 FT
SIDE (ABUTTING GB DISTRICT)	10FT	46.95 FT
REAR	50 FT	221.02 FT
	*115' FROM CENTERLINE OF MILLERSPORT HWY	
SETBACKS - PARKING		
FRONT	10 FT	13.5 FT
SIDE	10 FT	25.4 FT
REAR	15 FT	> 15 FT
PARKING		
# OF SPACES - SEE CALCULATION BELOW		
PARKING SPACE SIZE	23 9' x 19'	23 9' x 19'
MAX. BUILDING HEIGHT	40 FT	< 40 FT
LANDSCAPING		
INTERIOR PARKING AREA (5%, 10,970 SF OF PARKING AREA)	550 SF	>550 SF
15% OF OVERALL SITE	0.75 ACRES	>0.75 ACRES

PARKING CALCULATION:

WAREHOUSE:
REQ'D = 1 SPACE PER 1,000 G.S.F OR 1 SPACE PER EMPLOYEE

= (12,190 SF / 1,000 SF) * 1 SPACE = 13 SPACES REQ'D

OFFICE:
REQ'D = 1 SPACE PER 200 G.S.F

= (1,900 SF / 200 SF) * 1 SPACE = 10 SPACES REQ'D

TOTAL # OF PARKING SPACES = 13 SPACES + 10 SPACES = 23 PARKING SPACES REQ'D

GENERAL NOTES:

1. INSTALL ALL MATERIALS TO MANUFACTURERS' RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
2. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNERS APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
3. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
4. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
6. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.
9. EXISTING CURB AND REMOVAL OF EXISTING ENTRANCE SHALL BE SAW CUT FULL-DEPTH AND NEATLY REMOVED FROM THE BACKSIDE. EXISTING PAVEMENT SHALL NOT BE DISTURBED AND THE PAVEMENT EDGE SHALL BE USED AS FORM FOR PLACING NEW CURB.

SITE NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS: SHALL HAVE 4" MIN. OF TOPSOIL AND SEED.
3. ALL DIMENSIONS FROM PROPERTY LINES SHALL BE MEASURED PERPENDICULAR TO THE PROPERTY LINE.
4. CENTER ENTRANCE SIDEWALKS ON DOOR OPENINGS.
5. BUILDING DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
8. EXISTING DRIVEWAY APRONS WITHIN THE MILLERSPORT HIGHWAY RIGHT-OF-WAY WILL BE REMOVED AND RESTORED/REPLANTED BETWEEN THE PAVED SHOULDER AND THE ROW LINE.

SITE LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED SIDEWALK / CONCRETE PAD
- NUMBER OF PARKING SPACES (17)
- PROPOSED SIGN
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED LIGHT POLE
- PROPOSED WALL MOUNTED LIGHT

DETAIL LEGEND (SEE SITE DETAIL SHEET)

1. TYPE 'A' CONCRETE CURB
2. STANDARD DUTY ASPHALT
3. 90° PARKING STALL
4. HANDICAPPED PAVEMENT MARKINGS
5. HANDICAPPED PARKING SIGN
6. PAINTED TRAFFIC ARROWS
7. LIGHT POLE FOUNDATION
8. DUMPSTER ENCLOSURE
9. PIPE BOLLARDS
10. EXTERIOR CONCRETE SLAB-ON-GRADE
11. 5' WIDE CONCRETE SIDEWALK

NOTE LEGEND

1. EDGE OF PAVEMENT
2. RUNOUT CURB IN 2' OR MATCH EXISTING CURB
3. SAWCUT LINE, MATCH EXISTING EDGE OF PAVEMENT
4. INSTALL 'NO PARKING' SIGN, M.U.T.C.D. SIGN NO. P1-1C
5. LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
6. 4" WIDE WHITE PAVEMENT STRIPES @ 2 O.C. & @ 45° TO PARKING LINES

N

Site Plan

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 0 30 60FT.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:		
No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK * CHRISTOPHER WOOD * 079884 * LICENSED PROFESSIONAL ENGINEER

Sealed 07/07/2025

DRAWING NAME:
Site Plan
Concept

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-100

Project No: 24.4019

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Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

CARMINAWOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:		
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2	Rev. Per Town Comments	07/07/2025

Sealed 07/07/2025

DRAWING NAME: Site Details

DRAWING NO. C-101

Project No: 24-4019

Date: 11/15/24
Drawn By:
Scale: As Noted

TOWN OF AMHERST APPROVAL BOX:

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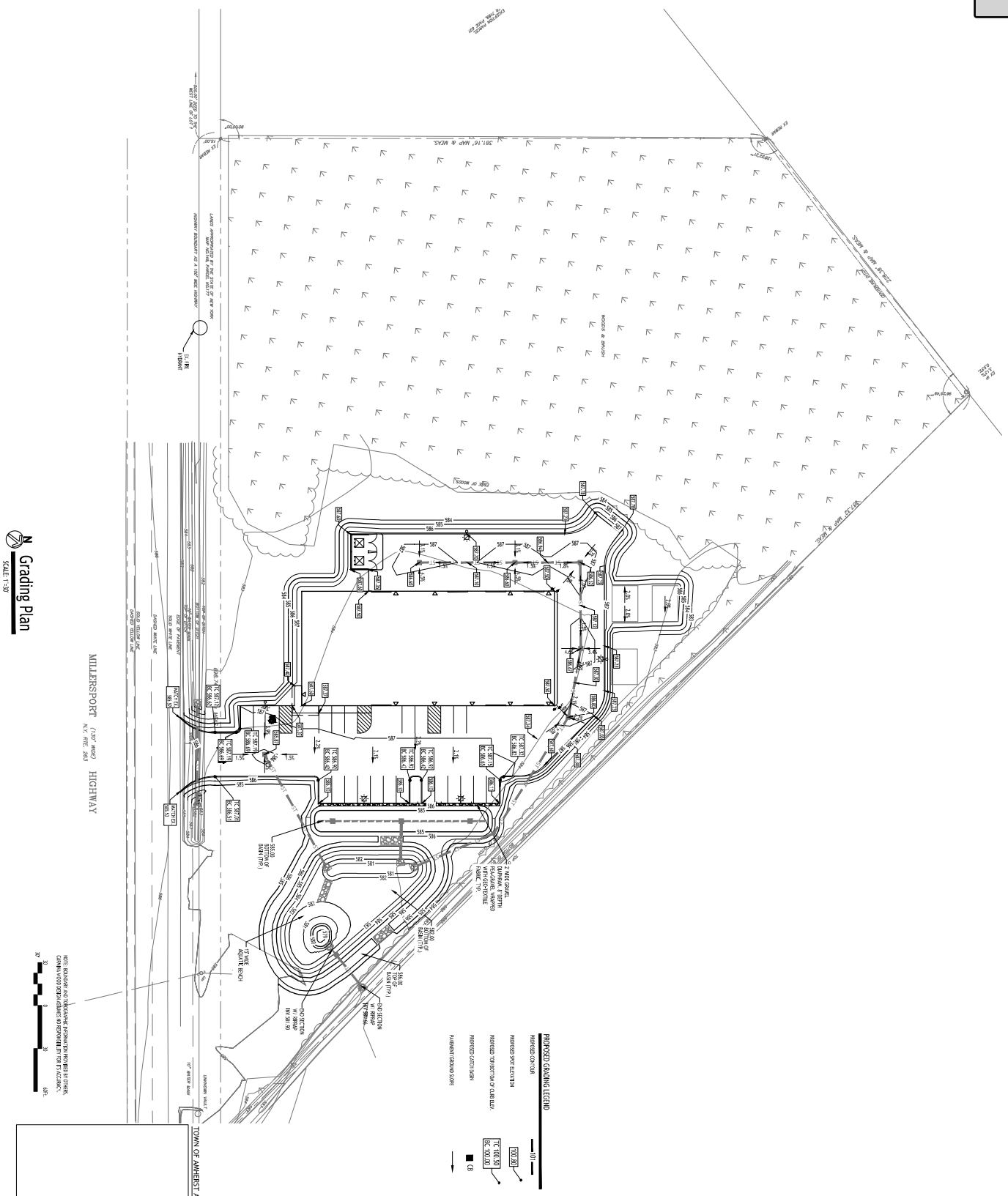

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Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

CARMINAWOOD DES
Buffalo | Utica

DRAWING NAME: Grading Plan

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO. C-200

Project No: 24.4019

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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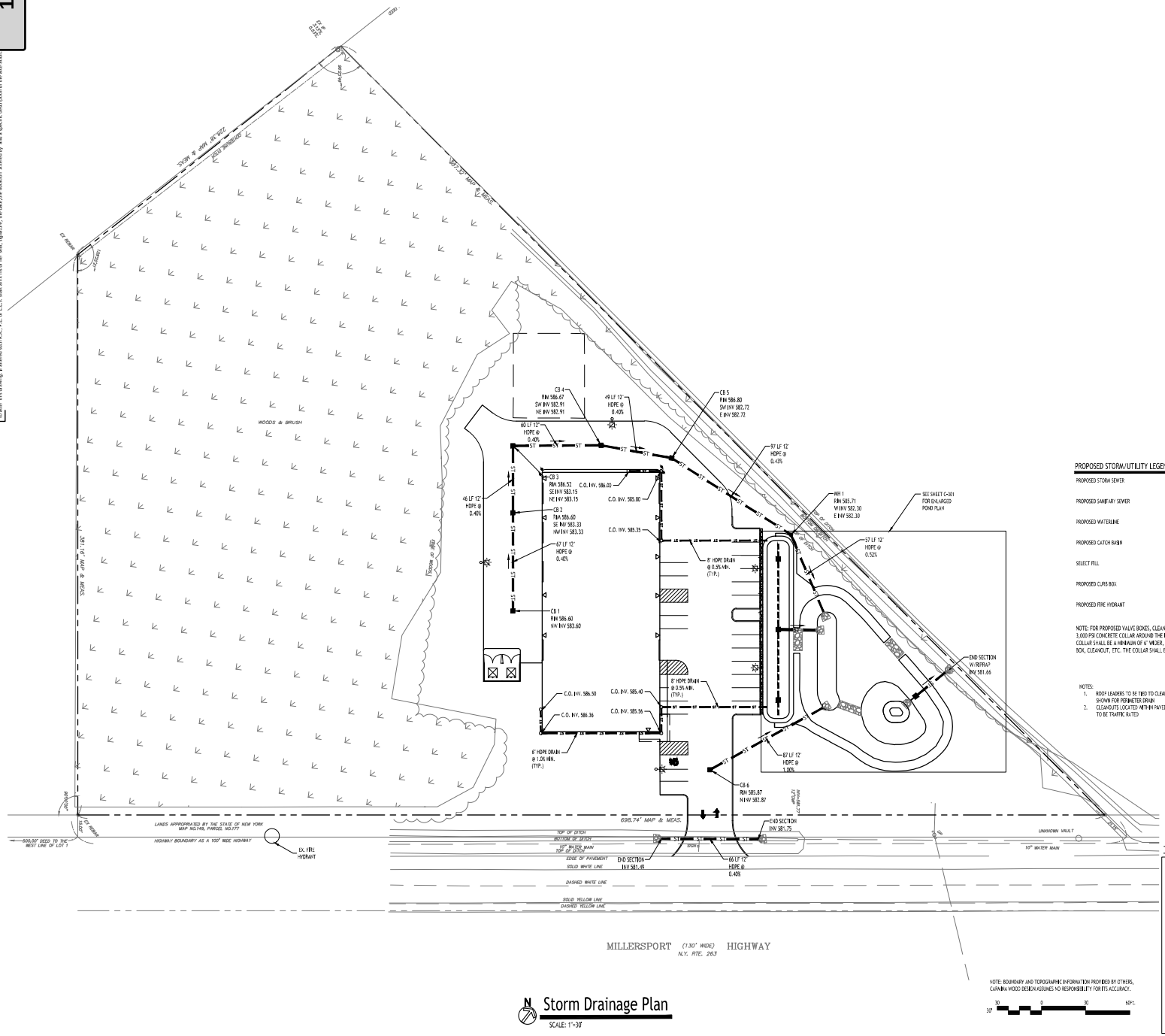

PROPOSED STORM/UTILITY LEGEND

PROPOSED STORM SEWER	ST
PROPOSED SANITARY SEWER	6" SA
PROPOSED WATERLINE	1" W
PROPOSED CATCH BASIN	CB
SELECT FILL	
PROPOSED CURB BOX	
PROPOSED FIRE HYDRANT	

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6' WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

NOTES:
1. ROOF LEADERS TO BE TIED TO CLEANOUTS SHOWN FOR PERIMETER DRAIN
2. CLEANOUTS LOCATED WITHIN PAVED AREAS TO BE TRAFFIC RATED

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 0 30 60ft

N

Storm Drainage Plan

SCALE: 1"=30'

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

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STATE OF NEW YORK * CHRISTOPHER WOOD * 076984 * LICENSED PROFESSIONAL ENGINEER

Seal on 07/07/2025

DRAWING NAME:
Storm Drainage Plan

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-300

Project No: 24.4019

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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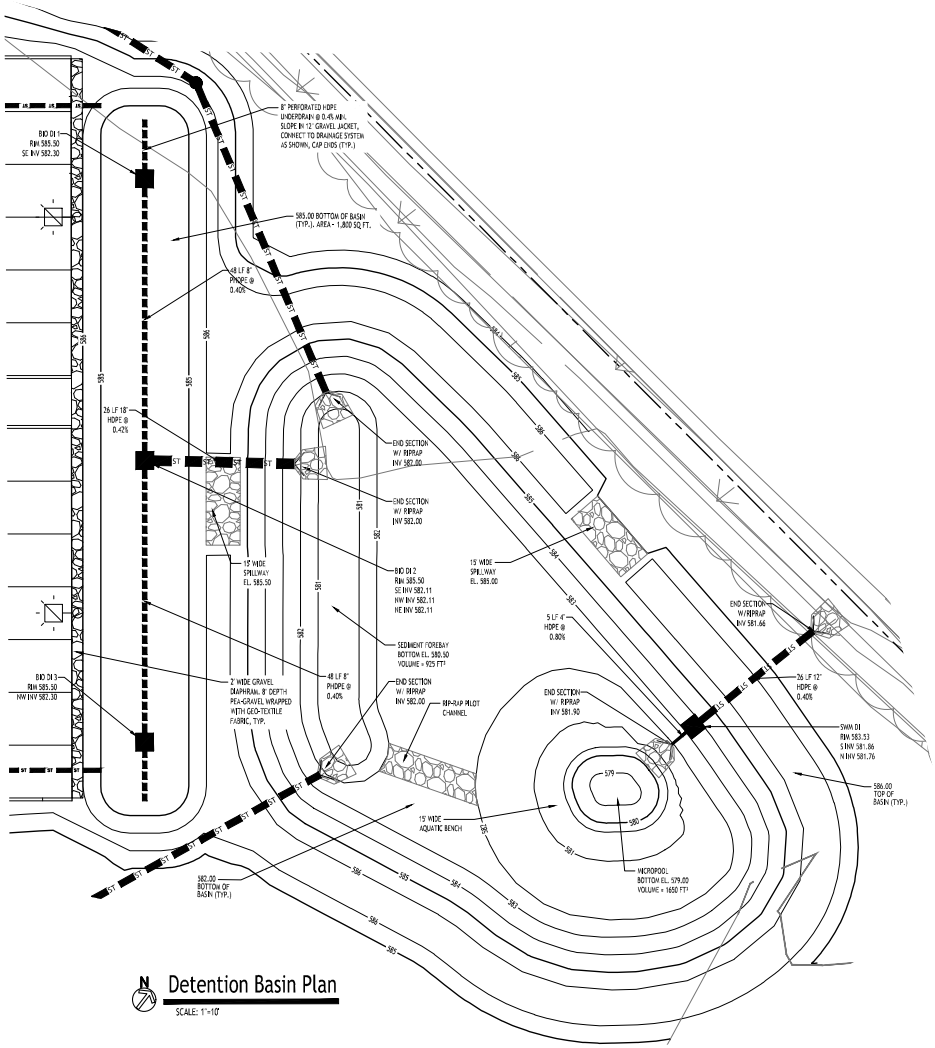
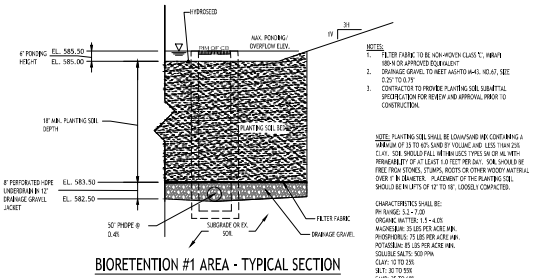


N

Detention Basin Plan

SCALE: 1"=10'



NOTES:
1. FILTER FABRIC TO BE NON-WOVEN CLASS "C", MIRAFI 180-N OR APPROVED EQUIVALENT
2. DRAINAGE GRAVEL TO MEET AASHTO M-43, NO.67, SIZE 0.25" TO 0.75"
3. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

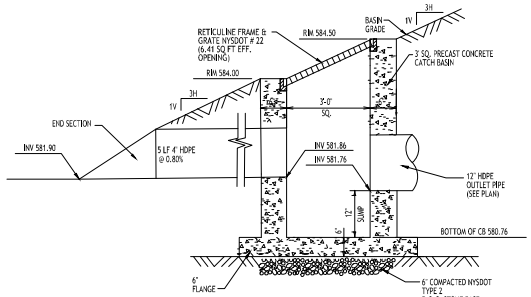
NOTE: PLANTING SOIL SHALL BE LOAM/SAND MIX CONTAINING A MINIMUM OF 35 TO 60% SAND BY VOLUME AND LESS THAN 25% CLAY. SOIL SHOULD FALL WITHIN USGCS TYPES SM OR ML WITH PERMEABILITY OF AT LEAST 1.0 FEET PER DAY. SOIL SHOULD BE FREE FROM STONES, STUMPS, ROOTS OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED.

CHARACTERISTICS SHALL BE:
PH RANGE: 5.2 - 7.00
ORGANIC MATTER: 1.5 - 4.0%
MAGNESIUM: 35 LBS PER ACRE MIN.
PHOSPHORUS: 75 LBS PER ACRE MIN.
POTASSIUM: 85 LBS PER ACRE MIN.
SOLUBLE SALTS: 500 PPM
CLAY: 10 TO 25%
SILT: 30 TO 55%
SAND: 35 TO 60%

BIORETENTION #1 AREA - TYPICAL SECTION

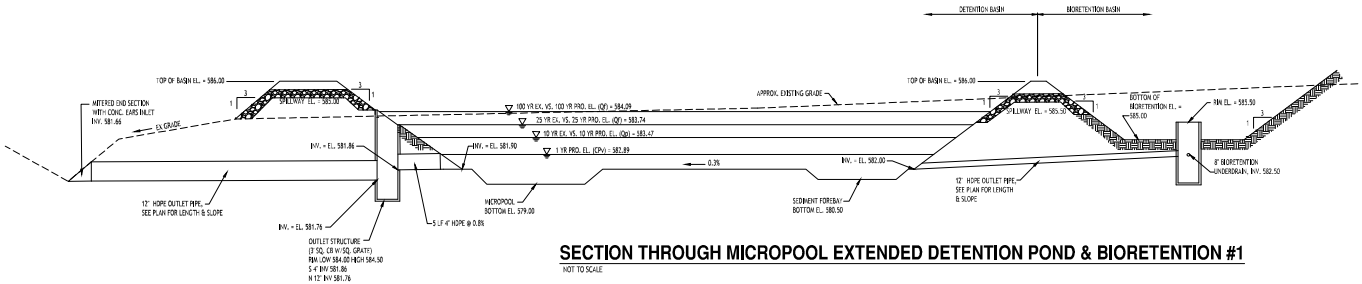
BIO-RETENTION AREA SEEDING SPEC (Northeast Wetland Grass Seed Mix):

Seed Mixture	Variety	Percent by No. of Seeds
Creeping Bentgrass	Agrostis stolonifera	33.3
Rough Bluegrass	Poa trivialis	17.0
Meadow Foxtail	Alopecurus arundinaceus	11.0
Annual Ryegrass	Lolium multiflorum	4.5
Deertongue	Panicum clandestinum	4.5



MICROPOOL EXTENDED DETENTION POND OUTLET STRUCTURE - SWM 1 DI

N.T.S.



SECTION THROUGH MICROPOOL EXTENDED DETENTION POND & BIORETENTION #1

NOT TO SCALE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS: No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK * CHRISTOPHER WOOD * 079584 * LICENSED PROFESSIONAL ENGINEER

Sealed 07/07/2025

DRAWING NAME:
Basin Details

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-301

Project No: 24.4019

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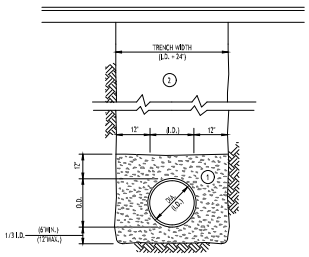


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

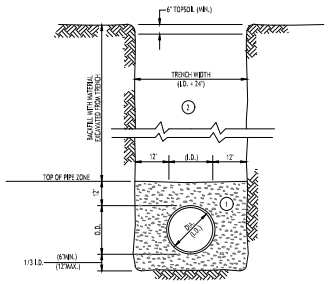
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

2. TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

STORM SEWER TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

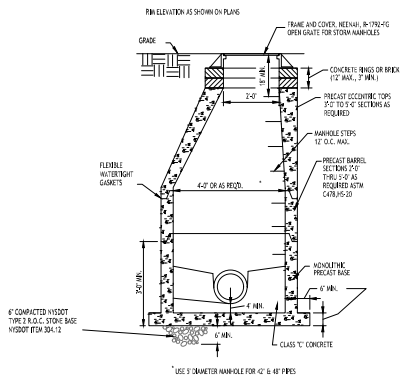
1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

2. BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

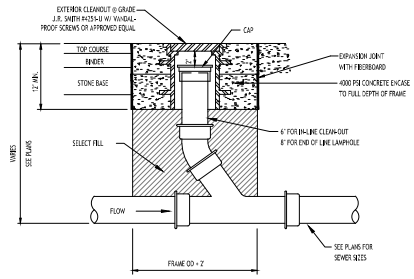
STORM SEWER TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



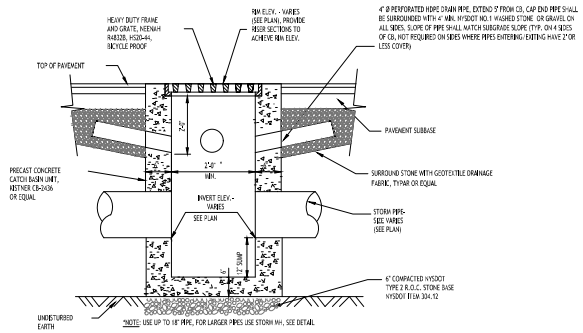
TYPICAL STORM MANHOLE DETAIL

NOT TO SCALE



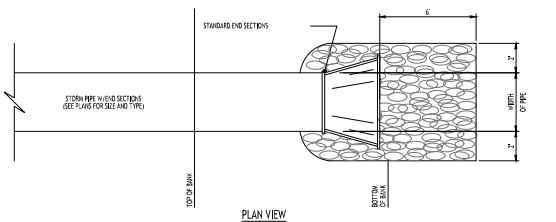
LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

NOT TO SCALE

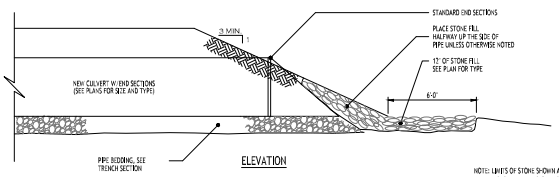


TYPICAL PRECAST CATCH BASIN

NOT TO SCALE



PLAN VIEW

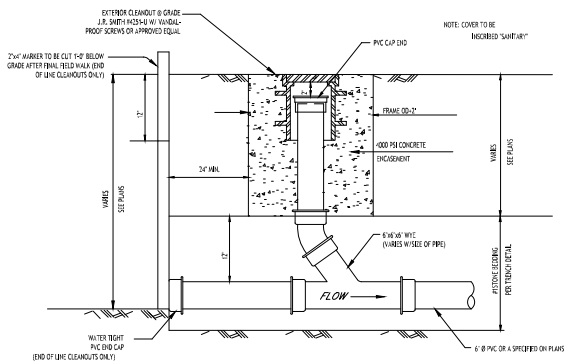


ELEVATION

NOTE: LIMITS OF STONE SHOWN ARE MINIMUMS, PLAN MAY INDICATE GREATER LIMITS

TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica

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5500 Millersport Highway
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STATE OF NEW YORK
CHRISTOPHER WOOD
078584
LICENSED PROFESSIONAL ENGINEER

Sealed 07/07/2025

DRAWING NAME:
Storm Drainage Details

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-302

Project No: 24.4019

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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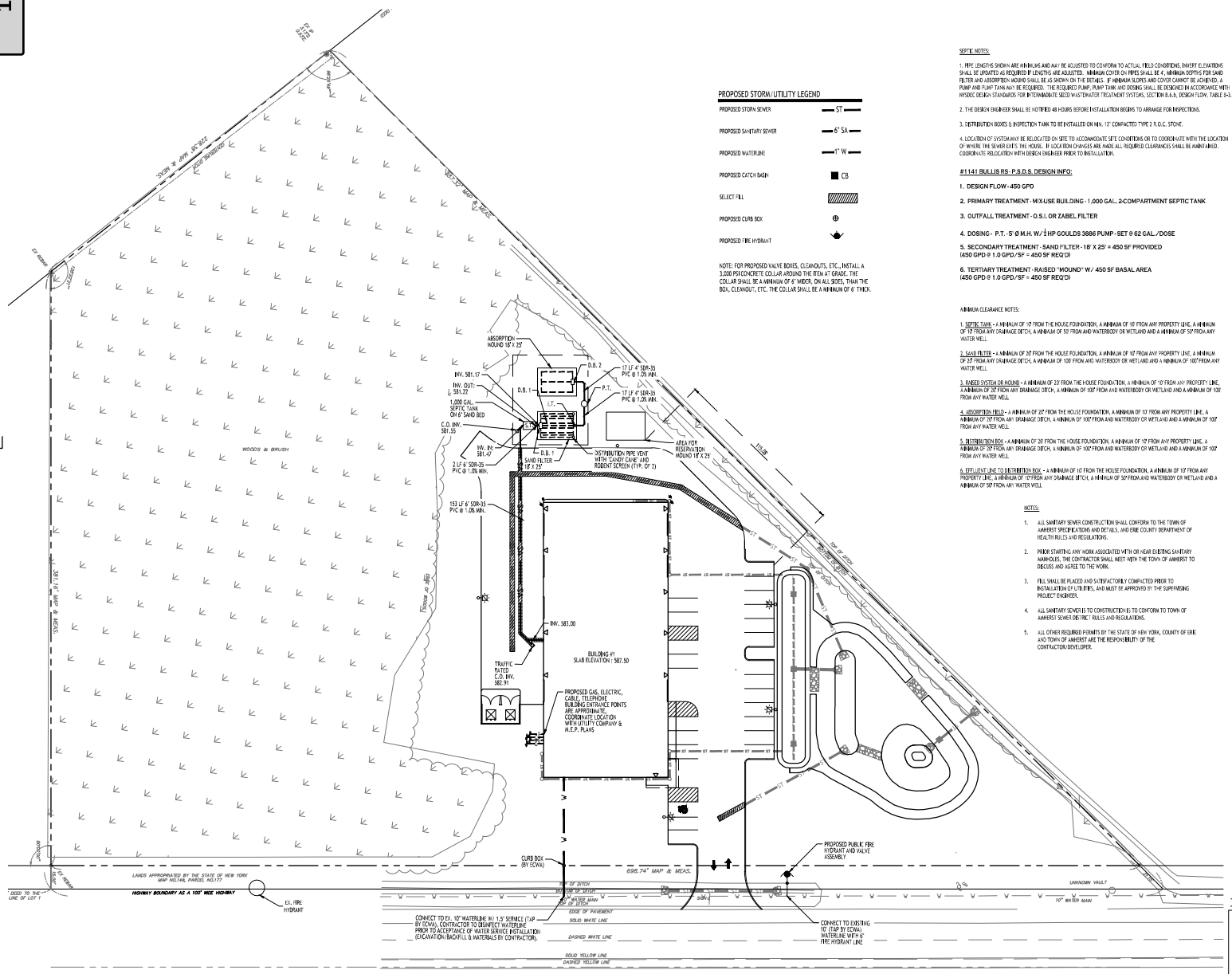

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK * CHRISTOPHER WOOD * 076984 * LICENSED PROFESSIONAL ENGINEER

Sealed 07/07/2025

DRAWING NAME:
Utility Plan

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-400

Project No: 24.4019

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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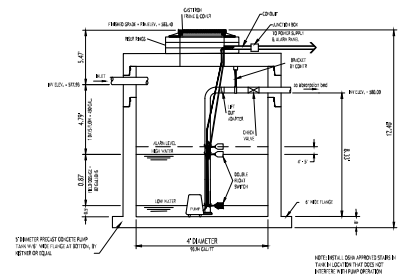
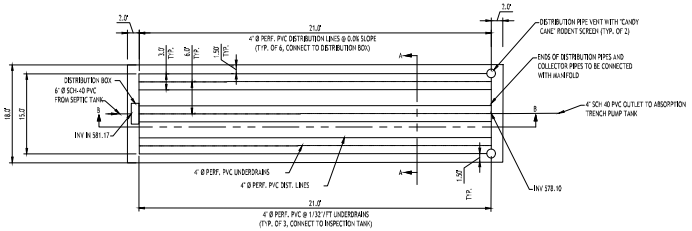


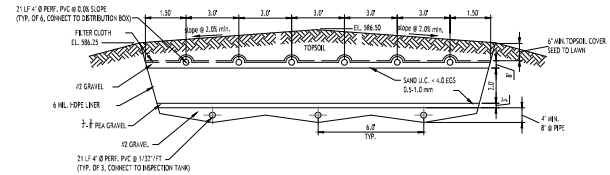
PUMP TANK



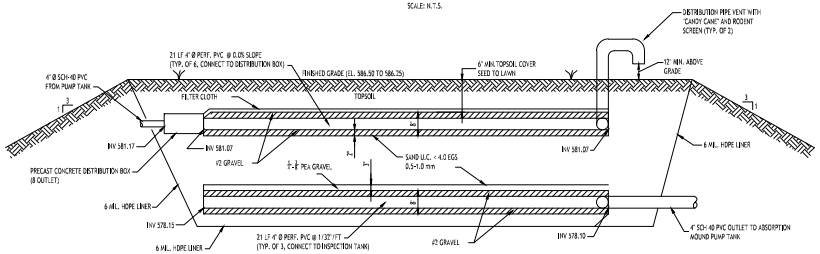
SAND FILTER PLAN
NOT TO SCALE

SAND FILTER NOTES:

1. ALL SAND SHALL BE UNIFORM COARSE TO MEDIUM SAND (< 4% PASSING #200 SIEVE), ALL PASSING 1/4 INCH SIEVE, HAVE A EFFECTIVE GRAIN SIZE (EGS) BETWEEN 0.25 - 1.00 mm, AN UNIFORMITY COEFFICIENT (UC) =< 4
2. IF A HDPE LINER IS USED, SEAL PENETRATIONS AND SEAMS WATER TIGHT
3. TOP OF SAND FILTER SHALL BE SLOPED TO DRAIN, AREAS AROUND THE FILTER SHALL BE GRADED TO DIVERT WATER AWAY
4. ALL HEAVY EQUIPMENT SHALL BE KEPT OFF THE SAND FILTER AREA FOLLOWING CONSTRUCTION.
5. depending on depth of high water mark or bedrock or the existing topography, the entire filter may be adjusted up or down. all required clearances and minimum slopes must be maintained. if adjustments are made to the filter, the engineer shall be notified prior to start of installation.



SAND FILTER CROSS SECTION A-A
SCALE: N.T.S.

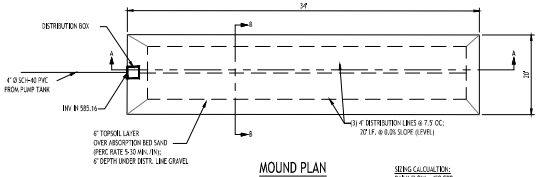


SAND FILTER SECTION B-B
SCALE: N.T.S.

MOUND NOTES:

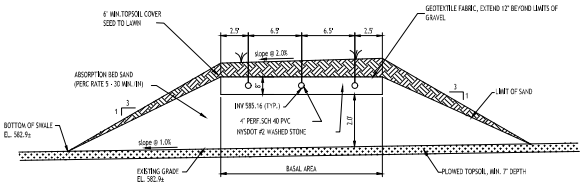
1. TOP OF MOUND SHALL BE SLOPED TO DRAIN, AREAS AROUND THE BASE OF THE MOUND SHALL BE GRADED TO DIVERT WATER AWAY FROM THE MOUND.
2. SLOPE UNDER MOUND SHALL FOLLOW SLOPE OF EXISTING GRADE, EITHER SIDE TO SIDE OR LONGITUDINAL TO FACILITATE DRAINAGE (SHOWN AS SIDE TO SIDE FOR ILLUSTRATION PURPOSES).
3. ALL HEAVY EQUIPMENT SHALL BE KEPT OFF THE MOUND AREA FOLLOWING CONSTRUCTION. IN ADDITION, NO EQUIPMENT SHALL BE ALLOWED IN THE MOUND AREA FOLLOWING PLOWING OF THE EXISTING SOIL.
4. MOUND SHALL BE ELEVATED AS REQUIRED TO PROVIDE A MINIMUM OF 3' OF NATURAL SOIL ABOVE BEDROCK AND A MINIMUM OF 1' ABOVE THE HIGH GROUND WATER ELEVATION.
5. THE SLOPE OF THE ORIGINAL GROUND SURFACE IN THE LOCATION OF THE MOUND SHALL NOT EXCEED 12%. THE SYSTEM SHALL BE ORIENTED TO RUN PARALLEL WITH THE NATURAL SITE CONTOURS.
6. THE ABSORPTION BED SAND SHALL MEET THE FOLLOWING CRITERIA:
   A. < 10% PASSING #200 SIEVE
   B. => 25% PASSING #30 SIEVE TO #10 SIEVE
   C. < 15% PASSING 1/2 SIEVE
   D. PERCOLATION RATE OF BETWEEN 5 - 30 MIN/INCH
   E. E.G.S. BETWEEN 0.15 - 0.30 MM
   F. U.C. BETWEEN 4 - 6
   G. TEST RESULTS TO BE SUBMITTED TO ENGINEER FOR APPROVAL

   NOTE: ASTM C33 WASHED CONCRETE SAND WILL TYPICALLY MEET THE ABOVE SUGGESTED MOUND SAND CRITERIA AND WILL TYPICALLY BE AVAILABLE AT MOST SAND AND GRAVEL DISTRIBUTORS; HOWEVER, THIS MATERIAL WILL OFTEN HAVE A PERC RATE FASTER THAN THE MINIMUM OF 5 MINUTES PER INCH. THE PERCOLATION RATE SHALL BE VERIFIED AND TAKE PRECEDENCE TO THE FILL GRADATION REQUIREMENTS WHEN A MOUND IS PLACED OVER VERY SLOW PERCOLATING SOIL TO AVOID RAPID WEEPING OF FLUIDS AT THE GROUND SURFACE.
7. THE NATURAL VEGETATION SHALL NOT BE SCRAPED AWAY WITH THE EXCEPTION OF TREES, STUMPS AND EXCESSIVE VEGETATION. THE PROPOSED MOUND AREA SHALL BE PLOWED TO A DEPTH OF 7" - 8" PREFERABLY WITH A DOUBLE-BOTTOM BLADE FURROW PLOW WITH TURNED UPSLOPE OR A BACK-HOE EQUIPPED WITH PLOWING BLADES. ALL TRAFFIC SHALL BE EXCLUDED FROM THE MOUND AREA FOLLOWING PLOWING.
8. DEPENDING ON DEPTH OF HIGH WATER MARK OR BEDROCK, THE ENTIRE MOUND MAY BE ADJUSTED UP OR DOWN. ALL REQUIRED CLEARANCES AND MINIMUM SLOPES MUST BE MAINTAINED. IF ADJUSTMENTS ARE MADE TO THE MOUND, THE ENGINEER SHALL BE NOTIFIED PRIOR TO START OF INSTALLATION.



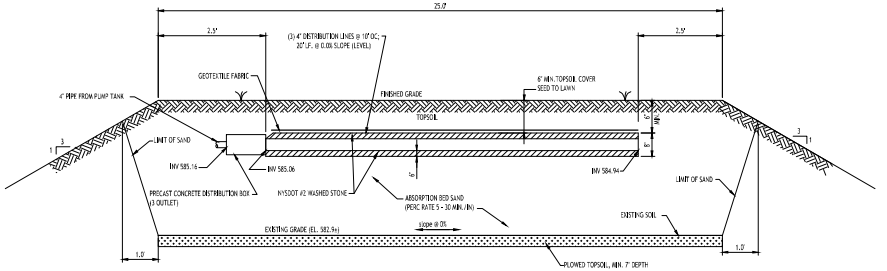
MOUND PLAN
SCALE: NTS

SIZING CALCUALTION:
DAILY FLOW = 450 GPD
PERC RATE OF EX. UNDERLYING SOIL : > 60 MIN.
APPLICATION RATE BASED ON PERC. RATE = 1 GPD/SF
BASAL AREA REQ'D = 450 GPD / 1 GPD/SF = 450 SF
BASAL AREA PROVIDED = 450 SF



The absorption bed sand shall meet the following criteria:
1. < 10% passing #200 sieve
2. => 25% between 0.5 mm to 2.0 mm
3. Percolation rate of between 5 - 30 min/inch

MOUND SECTION B-B
SCALE: N.T.S.



MOUND SECTION A-A
SCALE: N.T.S.

TOWN OF AMHERST APPROVAL BOX:

Packet Pg. 636

CARMINAWOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK * CHRISTOPHER WOOD * 076984 * LICENSED PROFESSIONAL ENGINEER
Sealed 07/07/2025

DRAWING NAME:
Utility Details

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-401

Project No: 24.4019

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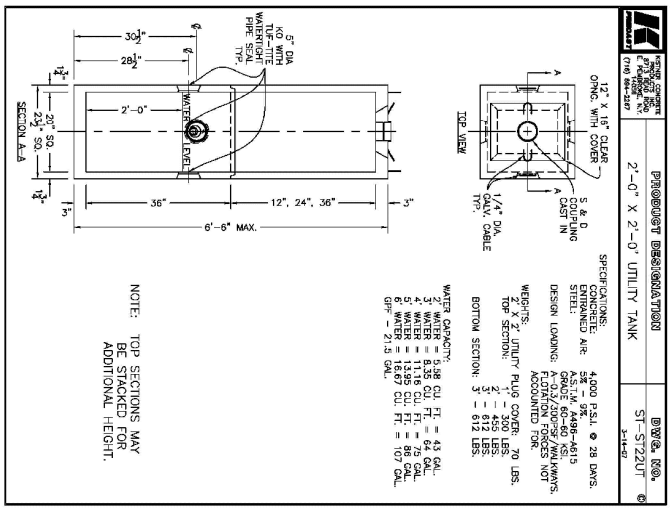
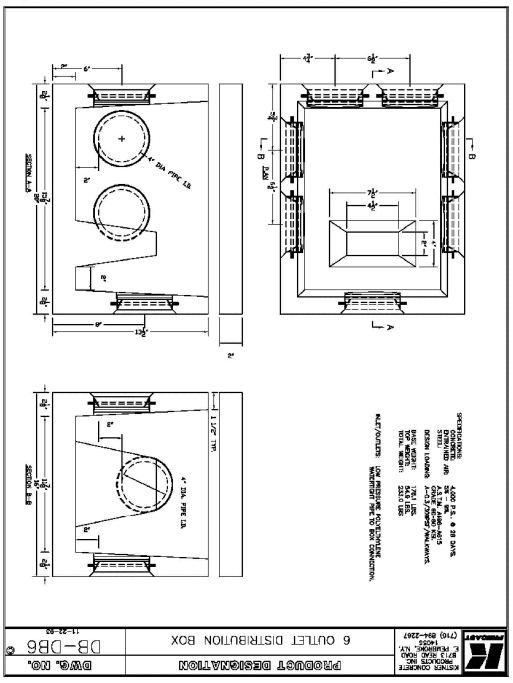
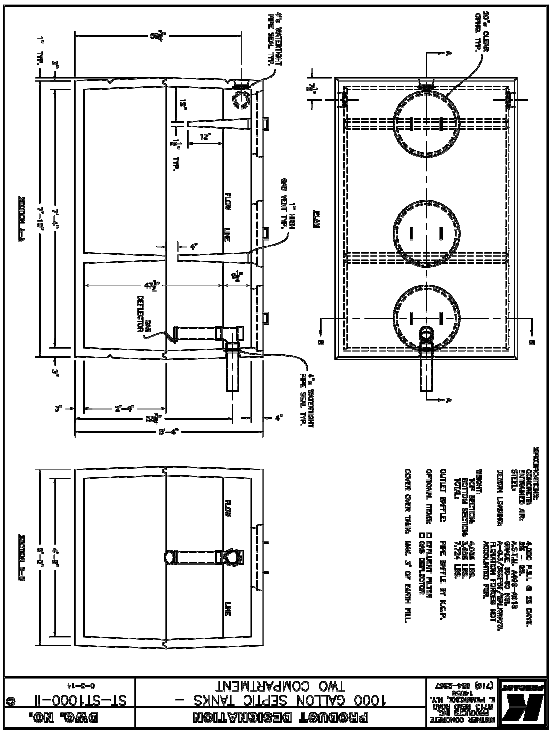






TOWN OF AMHERST APPROVAL BOX:

DRAWING NAME: Utility Details

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO. C-402

Project No: 24.4019

Sealed 07/07/2025

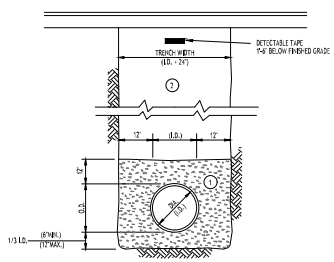
REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

Proposed Warehouse Building
5500 Millersport Highway
Amherst, New York

CARMINAWOOD DES
Buffalo | Utica

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

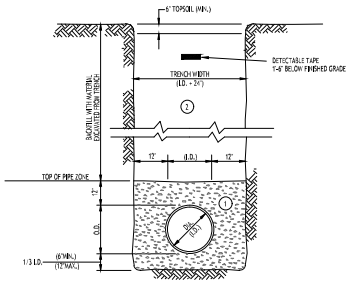
NO SLAG SHALL BE ALLOWED FOR MATERIAL 1

2. TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL 2

SEWER/WATERLINE TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

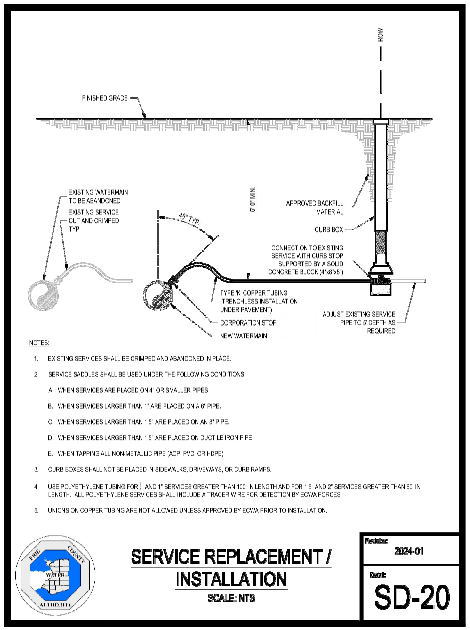
1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL 1

2. BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

SEWER/WATERLINE TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



NOTES:

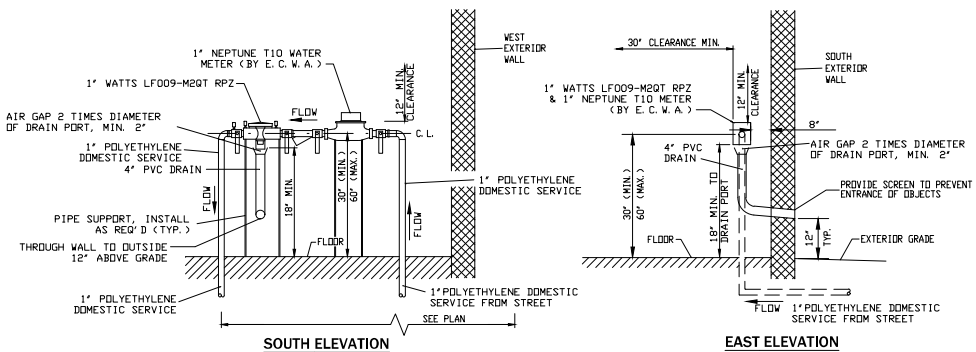
1. EXISTING SERVICES SHALL BE CRIMPED AND ABANDONED IN PLACE.
2. SERVICE SADDLES SHALL BE USED UNDER THE FOLLOWING CONDITIONS
   A. WHEN SERVICES ARE PLACED ON 4" OR SMALLER PIPES
   B. WHEN SERVICES LARGER THAN 1" ARE PLACED ON A 6" PIPE.
   C. WHEN SERVICES LARGER THAN 1" ARE PLACED ON AN 8" PIPE.
   D. WHEN SERVICES LARGER THAN 1" ARE PLACED ON CLOTTLE IRON PIPE
   E. WHEN TAPPING ALL NON METALLIC PIPE (ACP, PVC OR HDPE)
3. CURB BOXES SHALL NOT BE PLACED IN SIDEWALKS, DRIVEWAYS, OR CURB RAMPS.
4. USE POLYETHYLENE TUBING FOR 1 AND 1" SERVICES GREATER THAN 100 LINES THAN 50 FOR 1.5 AND 2" SERVICES GREATER THAN 100 IN LENGTH. ALL POLYETHYLENE SERVICES SHALL INCLUDE A TRACER WIRE FOR DETECTION BY SOMMER PIPE
5. UNION OR COPPER TUBING ARE NOT ALLOWED UNLESS APPROVED BY SOMMER PIPE TO INSTALLATION.

SERVICE REPLACEMENT / INSTALLATION

SCALE: NTS

Revision: 2024-01

Detail: SD-20



SOUTH ELEVATION

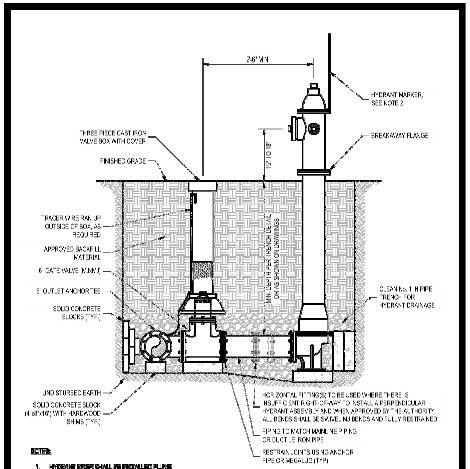
SCALE: NONE

EAST ELEVATION

SCALE: NONE

1.5" DOMESTIC SERVICE BACKFLOW PREVENTER INSTALLATION

NOTES:
1. NO TAPS TO BE MADE UPSTREAM OF RPZ & METER.
2. HEAT, LIGHT AND ELECTRIC TO BE PROVIDED AT RPZ LOCATION.
3. COORDINATE LOCATION WITH ARCHITECTURAL PLANS.



NOTES:

1. HYDRANT RESPONSIBILITY SHALL BE INSTALLED PLANS
2. FOR WATERMAIN REPLACEMENT PROJECTS, RELOCATE EXISTING MARKERS TO NEW HYDRANTS. MUNICIPALITY SHALL BE RESPONSIBLE TO PROVIDE ANY NEW HYDRANT MARKERS AS NEEDED. CONTRACTOR TO COORDINATE WITH ALL MUNICIPALITIES AND FIRE DISTRICTS.
3. HYDRANT FACE TO BE A MINIMUM OF 6 AT FROM THE INCH FACE OF ALL CURBS OR A MINIMUM OF 6 AT FROM ALL EDGE OF PAVEMENT.

HYDRANT ASSEMBLY INSTALLATION

SCALE: NTS

Revision: 2024-01

Detail: SD-16

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DES

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Packet Pg. 638

Proposed Warehouse Building

5500 Millersport Highway

Amherst, New York

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK CHRISTOPHER WOOD 076394 LICENSED PROFESSIONAL ENGINEER

Sealed 07/07/2025

DRAWING NAME:

Utility Details

Date: 11/19/24

Drawn By: C. Wood

Scale: As Noted

DRAWING NO.

C-403

Project No: 24.4019

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Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

PROPOSED FLOOR
4" VENT
PROPOSED WORK BOUNDARY
SEE CLEANOUT IN PAVEMENT/SIDEWALKS DETAIL FOR RESIDENTIAL AND COMMERCIAL APPLICATIONS
PAVEMENT
BACKFILL WITH EXCAVATED MATERIAL
4" CLEAN OUTS REQUIRED EVERY 100' LOCAL BUILDING CODES WILL GOVERN
4" CAST IRON OR PVC-DWV SS
4" PVC-DWV SS
12" SLEEVE
SITE
4" PVC-DWV SS
4" CAST IRON OR PVC-DWV SS
4" CAST IRON OR PVC-DWV SS
4" CAST IRON OR

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1.c

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

PER TOWN OF AMHERST CODE:
ALL REFUSE CONTAINERS & ALL MECHANICAL EQUIPMENT, UTILITY STRUCTURES, MULTIPLE METER BOARDS, GENERATORS, PIPES, & SIMILAR APPURTENANCES, INCLUDING THOSE WHICH ARE MOUNTED ON ANY PART OF A PRIMARY STRUCTURE SHALL BE SHOWN ON THE SITE PLAN & APPROPRIATELY SCREENED W/ A FENCE, WALL OR LANDSCAPING. ALL REFUSE CONTAINERS SHALL BE SCREENED FROM VIEW FROM ADJACENT PROPERTIES AND PUBLIC STREETS. PLANS SHALL BE SHOWN ON THE PLANS SUBMITTED FOR REVIEW. PROVIDE GATE ON REFUSE ENCLOSURE THAT SHALL BE CLOSED WHENEVER REFUSE CONTAINERS ARE NOT BEING SERVICED & ENCLOSURE SHALL BE HIGH ENOUGH TO SCREEN THE REFUSE CONTAINERS WITHIN.

PER TOWN OF AMHERST CODE:
CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK, AND LIMB DAMAGE; INCLUDING BUT NOT LIMITED TO, RETAINING WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS AS PER ZONING ORDINANCE 7-2-18(A)(3).

PLANTING NOTES:

1. ALL PROPERLY LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL DEBRIS OF CONSTRUCTION DEBRIS AND UNDESIRABLE MATERIAL.
2. ALL TREE PIT EXCAVATIONS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL BE MULCHED WITH A MINIMUM OF THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF THREE (3) FEET DEEP AND FILLED WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SEDIMENT TOPSOIL. SEASONAL FLOWER BEDS SHALL RECEIVE FRESH FERTILIZER. MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

LANDSCAPE NOTES:

1. ALL PLANTS INSTALLED SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED ON THE PLANT LIST IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60.1.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF. THE QUANTITIES SHOWN ARE A MINIMUM AND ARE FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL STAKE OUT IN FIELD STRAIGHT OUT OF ALL SUITABLE MATERIAL LOCATIONS AND CONFIRM THE OWNER'S FIELD REPRESENTATIVE'S APPROVAL OF LOCATIONS BEFORE PROCEEDING WITH ANY PLANTING. THE CONTRACTOR SHALL IMMEDIATELY CALL ATTENTION OF THE OWNER'S FIELD REPRESENTATIVE TO ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN ON THE PLANS. ALL DEPARTURES FROM THE PLANS MUST BE APPROVED BY THE OWNER'S FIELD REPRESENTATIVE AT THE TIME OF INSTALLATION.
4. THE CONTRACTOR IS HEREBY NOTIFIED THAT IT IS UNDERSTOOD THAT IT IS THE INTENT OF THE PLANTINGS AS PROPOSED THAT THE SHRUBS SHALL BE PLANTED A MINIMUM OF 5'-0" FROM ANY UNDERGROUND UTILITY. CONTACT THE OWNER'S FIELD REPRESENTATIVE IF PLANTINGS SHOWN ON THE PLANS WOULD BE SO LOCATED.
5. ALL TREES SHALL BE INSTALLED A MINIMUM OF 10' FROM ANY OVERHEAD ELECTRIC LINES.
6. PLANTING BEDS TO HAVE SHREDDED HARDWOOD BARK MULCH.
7. SOME TREES MAY BE PLANTED CLOSER THAN 10' FROM ANY OVERHEAD ELECTRIC LINES.
8. ALL PLANTED AREAS SHALL RECEIVE A 4" LAYER OF SHREDDED HARDWOOD BARK MULCH WITH PREEN.
9. ALL DISTURBED AREAS NOT RECEIVING PLANTINGS OR PAVEMENT SHALL BE SEEDED.
10. THE AREAS IN THE PLANT BEDS SHALL HAVE A MINIMUM OF TOPSOIL, NON-ROCKED, LEVELED AND HAND RAKED SMOOTH. SURFACE SHALL BE ROLLED TO REMOVE LUMPS.
11. ALL SEEDED AREAS SHALL BE WATERED IN ACCORDANCE WITH THE SPECIFICATIONS INDICATED. WHERE REQUIRED BY CLIMATIC CONDITIONS, SLOPE OR GRADING OF PLANTING, SOD MAY BE SUBSTITUTED FOR SEEDING IN ORDER TO ACHIEVE THE REQUIRED COVERAGE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, ANY PEST AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER. THIS SHALL INCLUDE MOWING A MINIMUM OF 3 TIMES OR AS REQUIRED BY ACCEPTED CONDITIONS AND RE-SEEDING OF THESE AREAS FOLLOWING THE COMPLETION OF THE WORK.

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	CAL	SIZE	ROOT	QUANTITY	NOTES
TREES							
GT	*Gleditsia triacanthos 'Skyline'*	Thornless Honeylocust-Skyline	2 1/2"	B&B		6	Grows to 60'-70', 35' wide
NSy	*Nyssa sylvatica 'Wildfire'*	Wildfire Black Tupelo	2 1/2"	B&B		5	Grows to 60'-70', 35' wide
QRuA	*Quercus rubra alba*	Regal Prince Oak	2 1/2"	B&B		5	Grows to 60'-70', 35' wide
QPp	*Quercus palustris 'Green Pillar'*	Green Pillar Pin Oak	2 1/2"	B&B		3	Grows to 60'-70', 35' wide
SN	*Salix nigra*	Black Willow	2 1/2"	B&B		4	Grows to 50'-60', 40' wide
EVERGREEN TREES							
PSf	*Picea pungens 'Fastigiata'*	White Pine-Columnar	6-8 Min.	B&B		8	Grows to 50-60', High - 10' Wide
PA	*Picea abies 'Hillside'*	Norway Spruce - upright - Hillside	6-8 Min.	B&B		13	Grows to 25'-30', 6-8' Wide
PPd	*Picea pungens 'Fastigiata'*	Norway Pine	10-12' Min.	B&B		5	Grows to 25'-30', 6-8' Wide
SHRUBS							
AcGlo	*Aronia melanocarpa 'Autumn Magic'*	Autumn Magic Chokeberry	24-30"	2 Gal.	#5 Cont.	1	Grows to 6'-8' High, 3'-4' Wide
HQ	*Hydrangea quercifolia*	Oak-Leaf Hydrangea	24-30"	2 Gal.	#5 Cont.	31	Grows to 6'-8' High, 3'-4' Wide
HA	*Ilex verticillata*	Red Prinz Dogwood	24-30"	2 Gal.	#5 Cont.	6	Grows to 6'-8' High, 3'-4' Wide
RO	*Rhododendron 'Nova Zembla'*	Nova Zembla Rhododendron	24-30"	2 Gal.	#5 Cont.	43	Grows to 6'-8' High, 4'-6' Wide
RO	*Rhododendron 'Roseum Elegans'*	Roseum Elegans Rhododendron	24-30"	2 Gal.	#5 Cont.	9	Grows to 6'-8' High, 4'-6' Wide
VsB	*Viburnum x 'Mohawk' (Judd's Viburnum)*	Mohawk Viburnum	24-30"	2 Gal.	#5 Cont.	9	Grows to 6'-8' High, 4'-6' Wide
VC	*Viburnum x 'Mohawk' (Judd's Viburnum)*	Cranberry Bush Viburnum	24-30"	2 Gal.	#5 Cont.	12	Grows to 6'-8' High, 4'-6' Wide
CS	*Sambucus canadensis*	American Elderberry	24-30"	2 Gal.	#5 Cont.	12	Grows to 6'-8' High, 4'-6' Wide
CS	*Cornus stolonifera*	Dwarf Red Osier Dogwood	24-30"	2 Gal.	#5 Cont.	12	Grows to 24" High, 4'-6' Wide

LEGEND

DECIDUOUS TREE

SMALL TREE

EVERGREEN TREE/SHRUB

ORNAMENTAL GRASS

PERENNIAL

SEEDING

PER TOWN OF AMHERST CODE:
ALL DEAD OR WEAKENED EXISTING PLANTS FROM THE PREVIOUSLY APPROVED SITE PLANS SHALL BE REPLACED/INSTALLED PER ZONING ORDINANCE 7-2-31(A)(1). CONTRACTOR SHALL REFER TO PREVIOUSLY APPROVED SITE AND LANDSCAPE PLANS BY OTHERS FOR ALL LANDSCAPE REFERENCES.

TOWN OF AMHERST APPROVAL BOX:

MILLERSPORT (CAMP WOOD) HIGHWAY
N.Y. RTE. 263

N
Landscape Plan
SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN IS NOT RESPONSIBLE FOR ITS ACCURACY.

30' 0 30' 60'

REVISIONS:		
No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

CARMINAWOOD DESIGN
Buffalo | Utica

DRAWING NAME: Landscape Plan

DRAWING NO. L-100

Project No: 24-4019

Date: 11/01/24
Drawn By: WC
Scale: As Noted

Packet Pg. 640

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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Ruth Gardens Mix - ERNMX-180

	Botanic Name	Common Name
25.00 %	*Andropogon virginicus*	Broomsedge, Field Preformer: Qpr, Pa Ecotype
25.00 %	*Elymus riparius* 'Shenandoah'	Little Bluestem, Fond Preformer: Qpr, Pa Ecotype
9.00 %	*Elymus virginicus* 'Wildrye'	Virginia Wildrye, Intermediate: Mid-Fall, Dakota
8.00 %	*Elymus canadensis*	Nodding Wildrye, Pa Ecotype
5.00 %	*Sorghastrum nutans*	Indiangrass, Pa Ecotype
5.00 %	*Panicum clandestinum*	Purple Panicgrass
3.00 %	*Chamaecrista fasciculata*	Partridge Pea, Pa Ecotype
3.00 %	*Rudbeckia hirta*	Black-eyed Susan, Pa Ecotype
2.00 %	*Rudbeckia hirta*	Blackeyed Susan
2.00 %	*Verbena hastata*	Blue Vervain, Pa Ecotype
1.50 %	*Asclepias tuberosa*	Butterflyweed, Pa Ecotype
1.50 %	*Asclepias incarnata*	Swamp Milkweed, Pa Ecotype
1.50 %	*Helianthus divaricatus*	Woodland Sunflower, Pa Ecotype
1.50 %	*Helianthus angustifolius*	Narrowleaf Sunflower, Pa Ecotype
1.00 %	*Chrysopsis mariana*	Maryland Goldenaster, Pa Ecotype
1.00 %	*Senna hebecarpa*	Wild Senna, VA & WV Ecotype
1.00 %	*Silphium perfoliatum*	Cup Plant, Pa Ecotype
0.50 %	*Silphium terebinthinaceum*	Prairie Dock, Pa Ecotype
0.50 %	*Aster novae-angliae*	New England Aster, Pa Ecotype
0.50 %	*Symphyotrichum laeve*	Smooth Blue Aster, Pa Ecotype
0.50 %	*Symphyotrichum novae-angliae*	New England Aster, Pa Ecotype
0.50 %	*Symphyotrichum pilosum*	Frost Aster, Pa Ecotype
0.50 %	*Verbesina alternifolia*	Wingstem, Pa Ecotype
0.40 %	*Asclepias syriaca*	Common Milkweed, Pa Ecotype
0.25 %	*Liatris aspera*	Rough Blazingstar, Pa Ecotype
0.25 %	*Liatris scariosa*	Northern Plains Blazingstar, Pa Ecotype
0.25 %	*Liatris spicata*	Marsh Blazingstar, Pa Ecotype
0.25 %	*Monarda fistulosa*	Wild Bergamot, Pa Ecotype
0.25 %	*Penstemon digitalis*	Smooth Beardtongue, Pa Ecotype
0.25 %	*Ratibida pinnata*	Yellow Coneflower, Pa Ecotype
0.10 %	*Solidago rugosa*	Rough Goldenrod, Pa Ecotype
0.10 %	*Solidago speciosa*	Showy Goldenrod, Pa Ecotype
0.10 %	*Solidago ulmifolia*	Elmleaf Goldenrod, Pa Ecotype

100.00 %

Seeding rates: 20 lb per acre will cover 930 sq. ft. or 21.35 sq. ft. per lb. Apply at a rate of 4 lb per 1,000 sq. ft. Use the following cover crops: Oats (3 Jan to 31 July; 30 Sept to Dec), Annual Rye (1 May to 31 Aug; 10 Sept to Dec), or grain rye (1 Aug to 31 Dec; 20 Sept to Dec).

Ground to be prepared by Others - Herbaceous Perennial: Herbaceous Flowering Specimen - Groundcover Plant Spacing - Herbaceous Perennial: Maintenance Undertaken by Others.

Topsoil shall be fertile, friable, natural loam, free of clay lumps, brush, weeds, roots, stones larger than 2 inches in diameter, and other extraneous materials harmful to plant growth. Topsoil shall not be taken from bogs or marshes. Topsoil shall be obtained from well-drained areas.

The native grass mix will be applied at a rate of 20 lbs per acre. Mix should be applied with a broadcast spreader, drill seeder, or hydroseeder. Mix should not be applied when the ground is frozen or when there is standing water. Mix should be applied from April 15 to June 15 or from August 15 to October 15. Mix should be applied at a depth of 0.25 inches. Mix should be watered regularly for the first two weeks after planting. Mix should be mowed to a height of 6 inches in the first year. Mix should be mowed to a height of 12 inches in subsequent years. Mix should be fertilized with a balanced fertilizer in the spring. Mix should be weeded regularly. Mix should be protected from deer and other animals. Mix should be replaced if it fails to establish.

ERNST SEEDS

TYPICAL SHRUB PLANTING TO SCREEN UTILITY INFRASTRUCTURE

NOTES:
1. USE EVERGREEN SHRUBS TO SCREEN ALL ABOVEGROUND UTILITY EDGES AND INFRASTRUCTURE FROM ADJACENT ROAD OR SIDEWALK PER TOWN OF AMHERST CODE
2. PROVIDE A MINIMUM OF FOUR (4) FEET BETWEEN PLANTINGS AND THE EDGE OF THE UTILITY BOX TO ALLOW PROPER CLEARANCE FOR UTILITY MAINTENANCE

TYPICAL CROWN PLAN VIEW (TYP.)

ROAD OR SIDEWALK TYP.

4' MIN.

4' MIN.

UTILITY BOX (TYP.)

SHRUB PLANTING (SEE PLANTING PLAN FOR SPECIES)

6" APPROVED SPACER (OR EQUAL) REQ. (TYP.ALL)

6" APPROVED SPACER (OR EQUAL) REQ. (TYP.ALL)

SECTION VIEW

TREE PROTECTION / SAFETY NETTING

TREE PROTECTION FENCING TO BE INSTALLED AT THE DRIP LINE OF TREES TO BE PROTECTED OR TREATMENT AREA

Crown drip line or other limit of Tree Protection areas. See tree preservation plan for fence alignment.

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
2. NO TRENCHING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
3. NO CONSTRUCTION, OPERATIONS OR THE PLACEMENT OF MATERIALS SHALL BE PERMITTED WITHIN THE TREE PROTECTION AREA.

GROUND COVER PLANT SPACING

PLAN

SECTION

NOTE: PLANT IN STAGGERED ROWS AS SHOWN

STD. SHRUB SPACING/PLANTING

STD. SHRUB PLANTING

STD. EVERGREEN PLANTING

STD. DECIDUOUS TREET PLANTING

STD. MULTI STEM DECIDUOUS TREE PLANTING

TOWN OF AMHERST APPROVAL BOX:

DRAWING NAME:
Landscape Details

DRAWING NO.
L-101

Project No: 24-4019

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

REVISIONS:		
No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

Proposed Warehouse Building
5500 Millersport Highway
Amherst, New York

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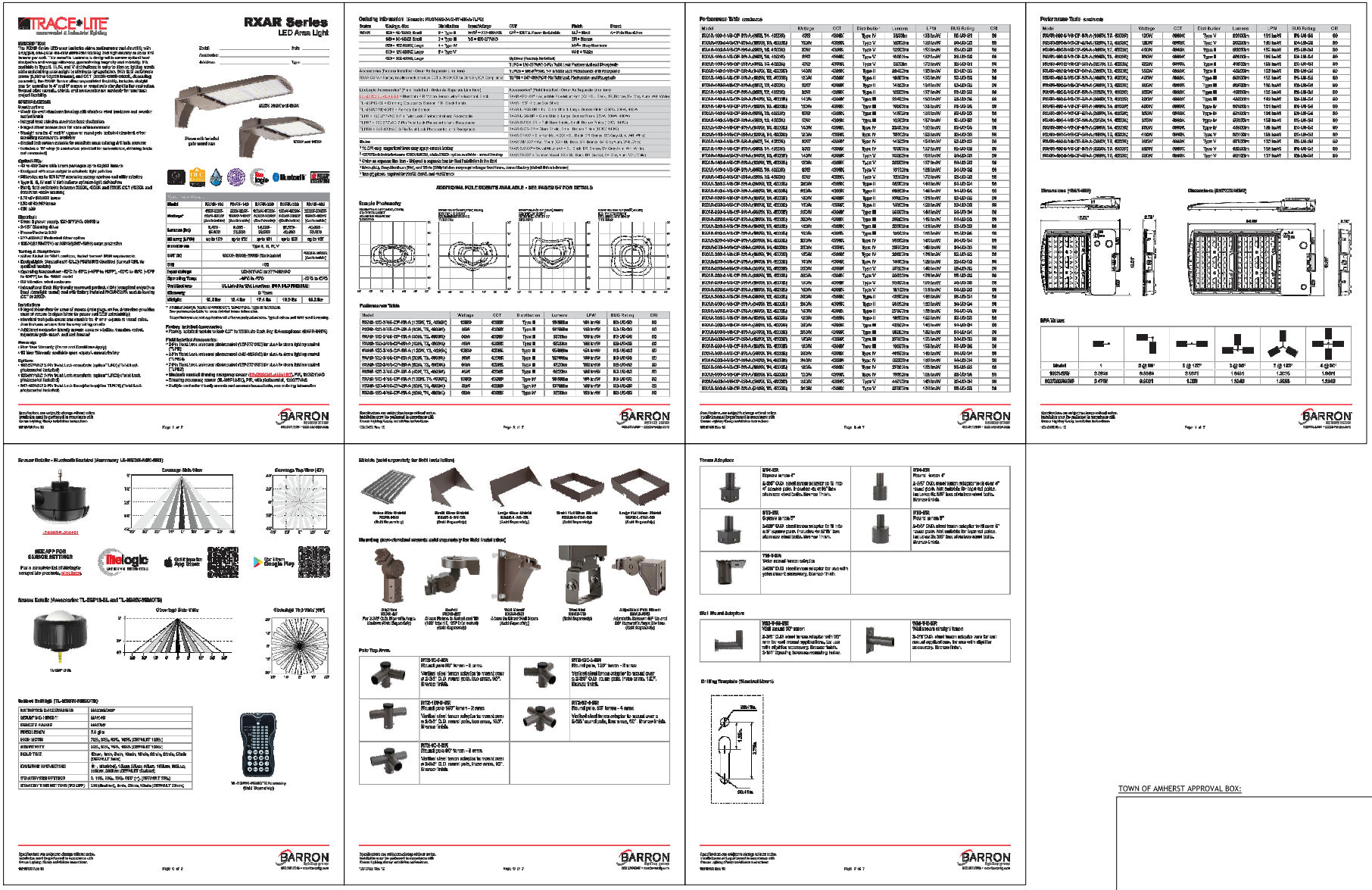
SYMBOL	QTY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP	NUMBER LAMPS	LUMENS PER LAMP	LLF	WATTS
A	4	RSIXTEEN	RSIXTEEN-SA-SQ-SL-SW-SW-SW

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica

Proposed Warehouse Building
5500 Millersport Highway
Amherst, New York

Packet Pg. 643

REVISIONS:		
No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

DRAWING NAME:
Lighting Details

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
LP-100

Project No: 24.4019

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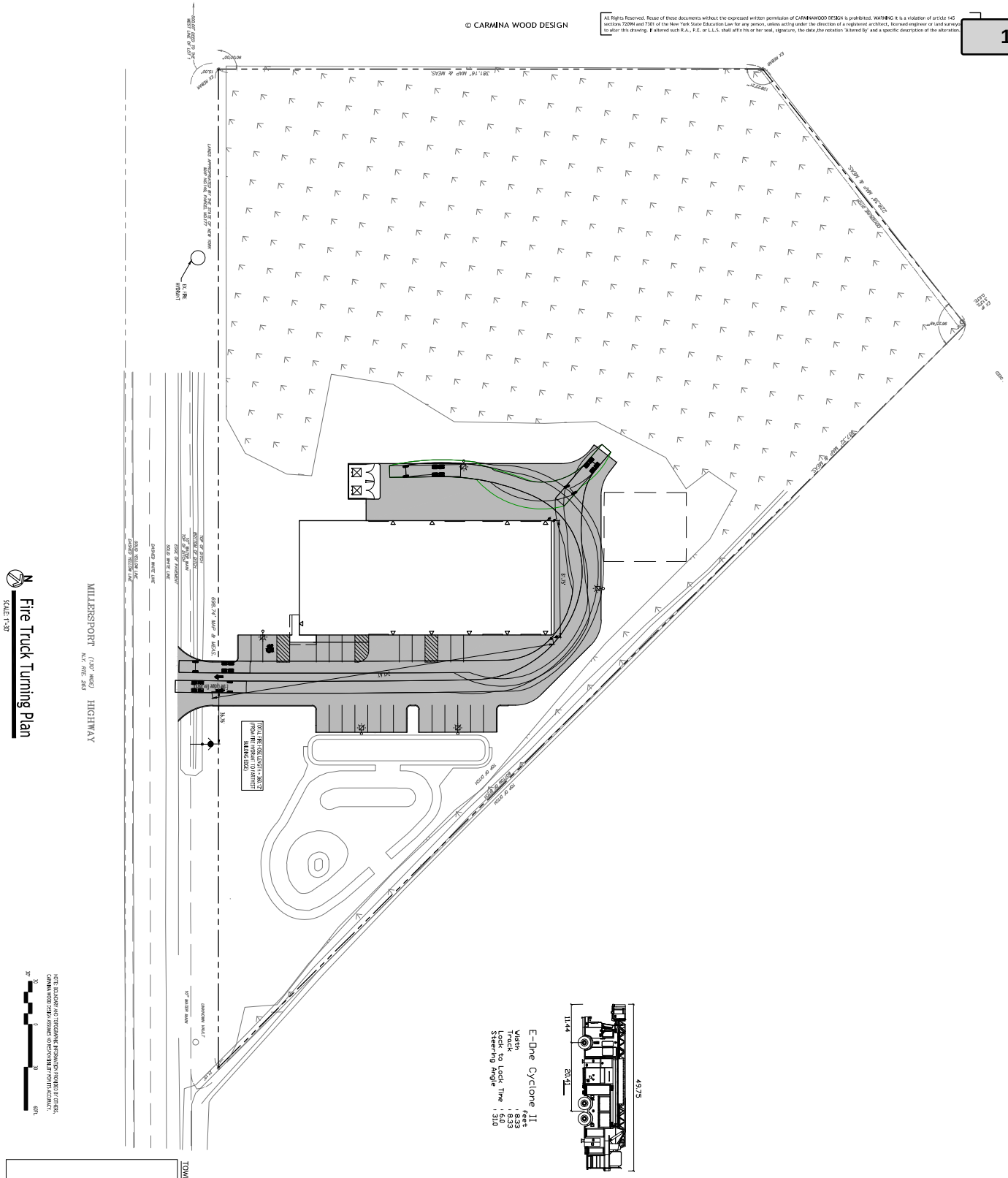
1.c



TOWN OF AMHERST APPROVAL BOX:

DRAWING NAME:
Fire Truck Turning Plan

Date: 11/19/24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
FT-100

Project No: 24.4019

Sealed 07/07/2025

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

Proposed Warehouse Building
5500 Millersport Highway
Amherst, New York

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Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix I

Soils Information

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Hydrologic Soil Group—Erie County, New York



Map Scale: 1:1,340 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 23, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 28, 2020—Jul 4, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Cc	Canandaigua silt loam	C/D	1.2	21.7%
Ge	Getzville silt loam	B/D	4.4	78.3%
Totals for Area of Interest			**5.6**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Tie-break Rule: Higher

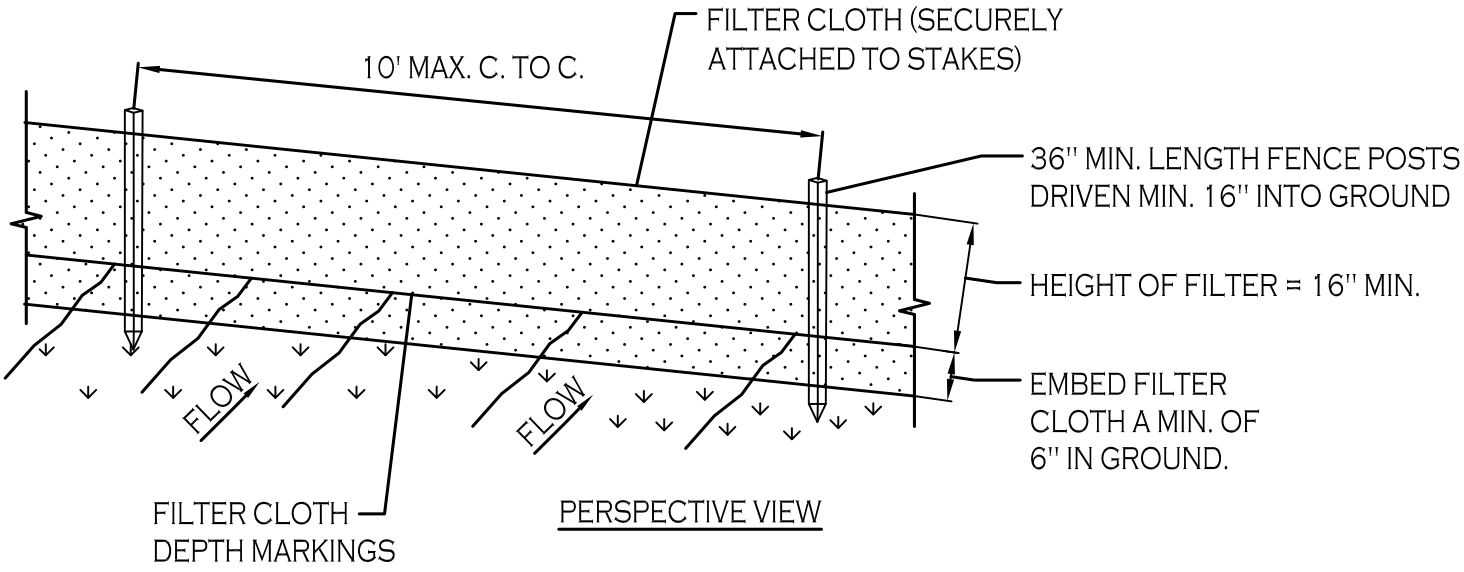
Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

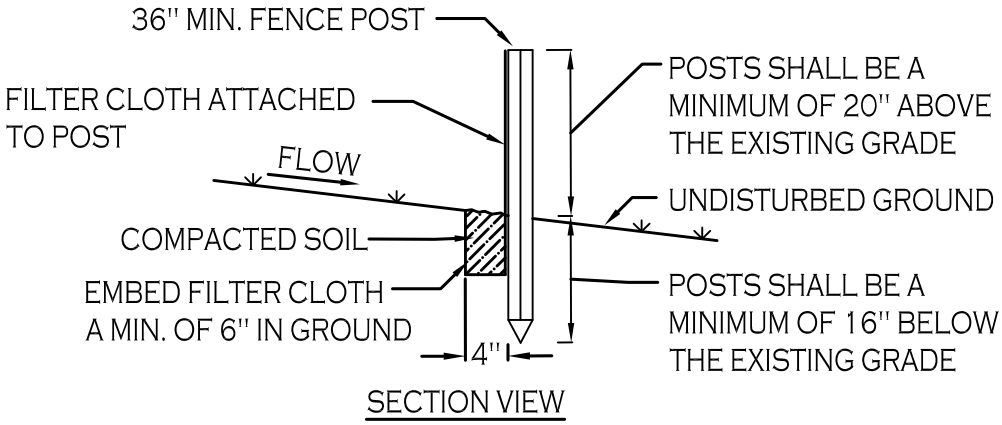
Appendix J

Standard Erosion Control Details

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)





CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.

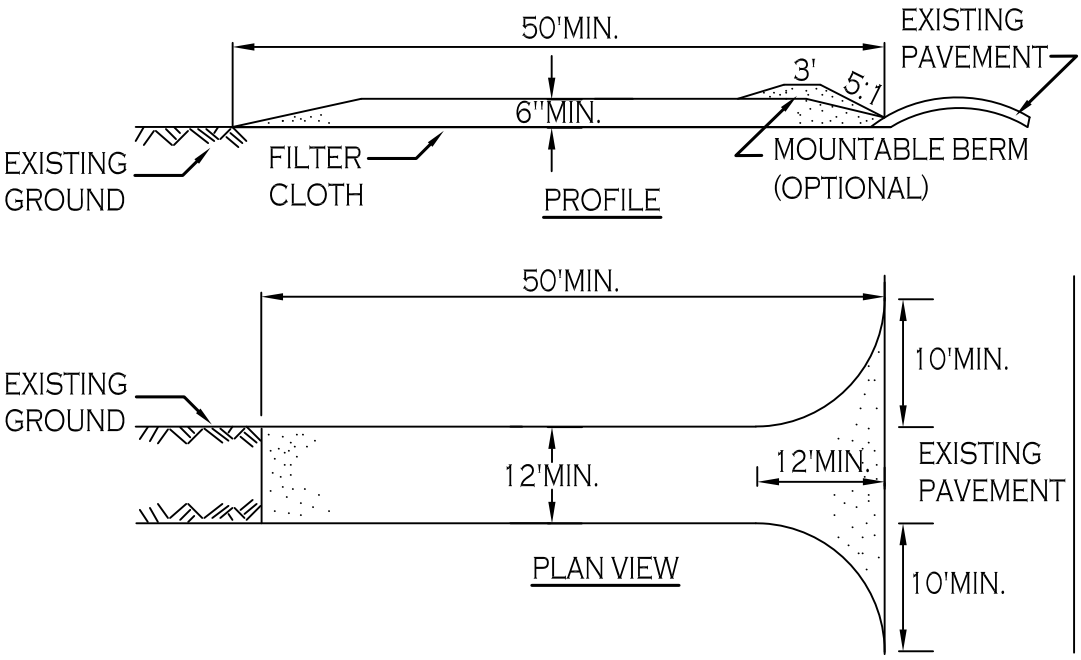
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.

3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).

3. THICKNESS - NOT LESS THAN SIX (6) INCHES.

4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

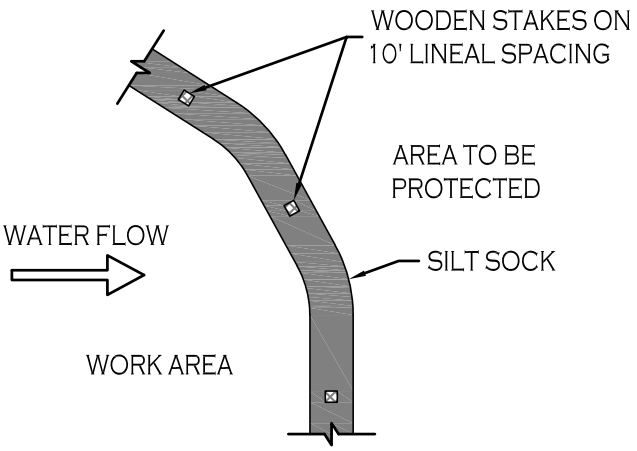
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

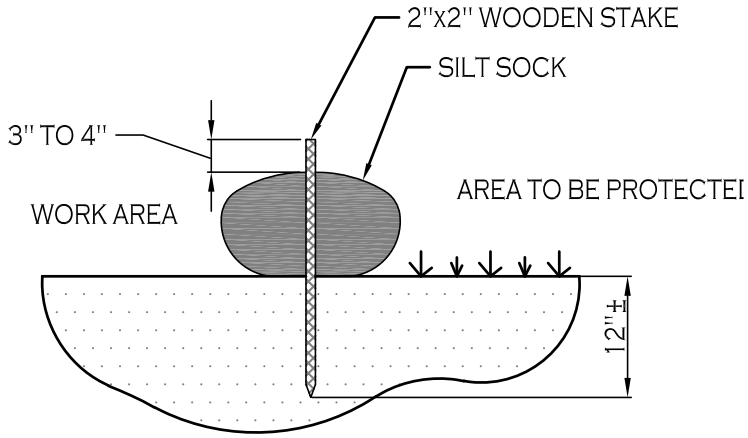
STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



PLAN VIEW



SECTION VIEW

NOTES:

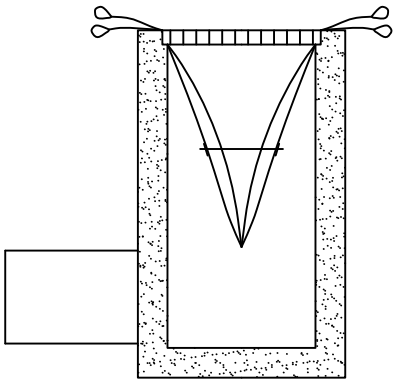
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED $\frac{1}{2}$ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

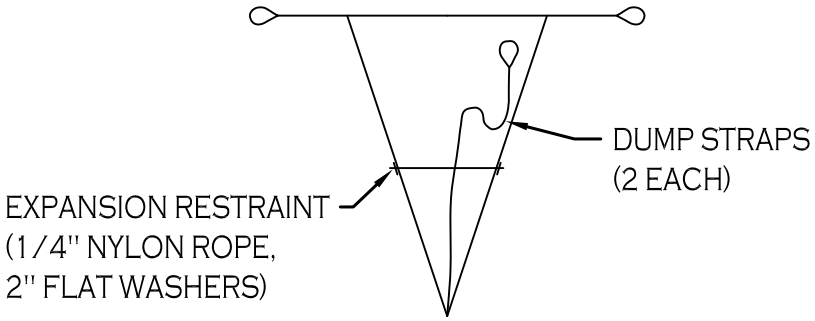
SILT SOCK DETAIL

NOT TO SCALE

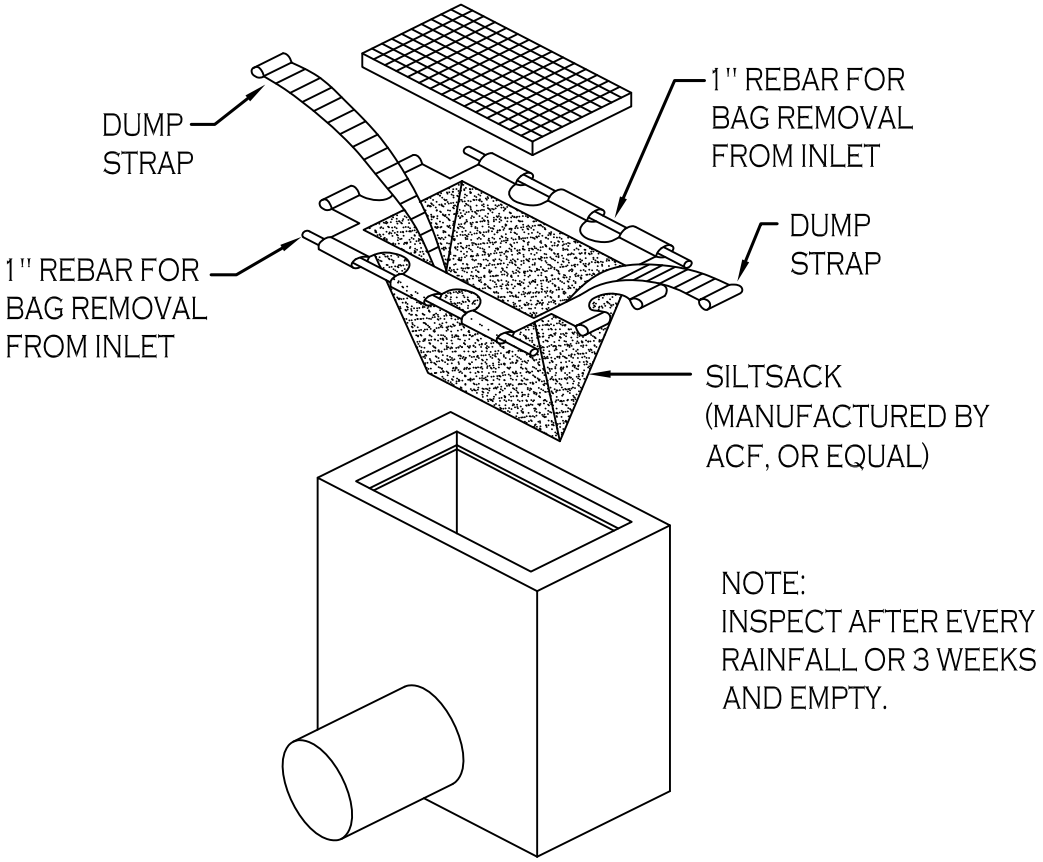
Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



INSTALLATION DETAIL



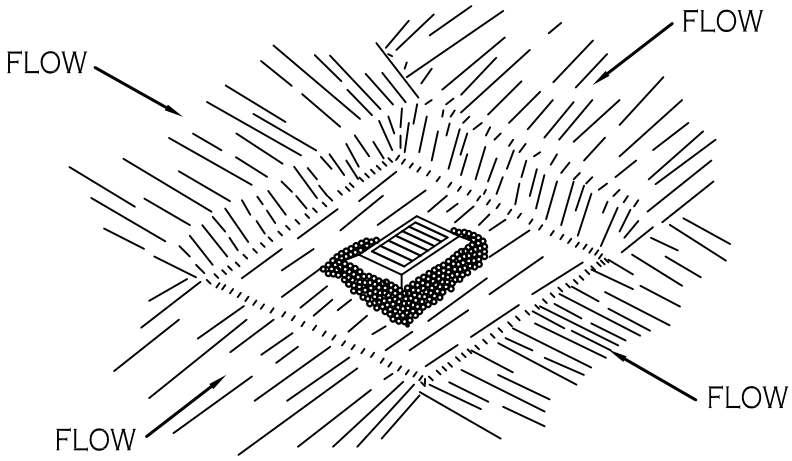
BAG DETAIL

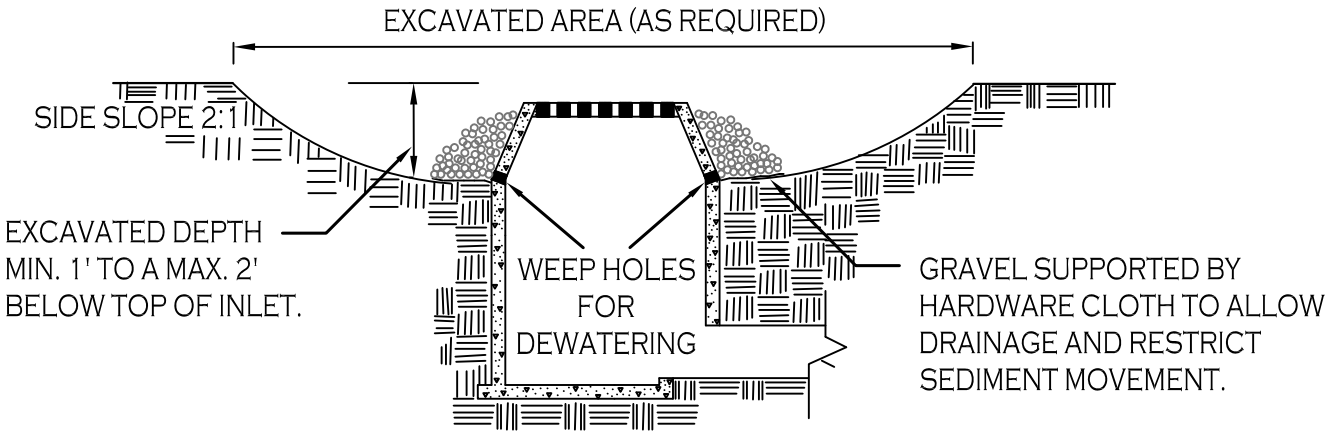


SILT SACK DETAIL

NOT TO SCALE

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)





CONSTRUCTION SPECIFICATIONS

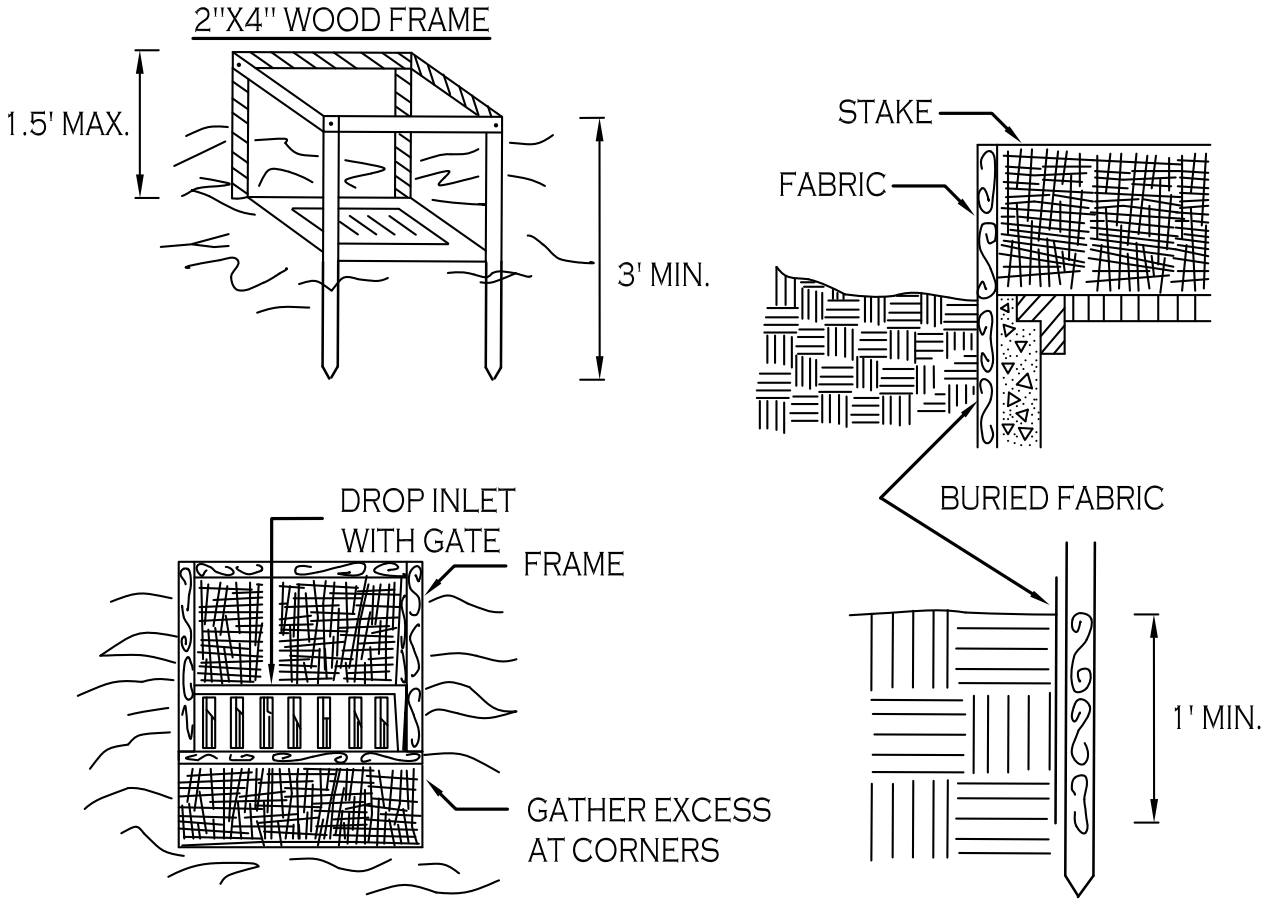
1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.

2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.

3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.

4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.

5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.

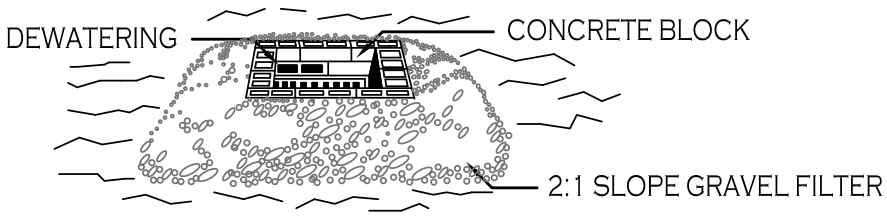
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUN DRAINAGE AREA 1 ACRE

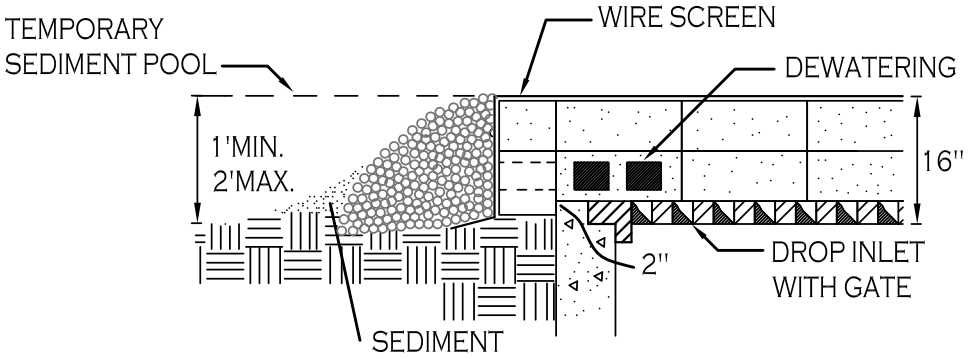
INLET PROTECTION DETAIL 2

NOT TO SCALE

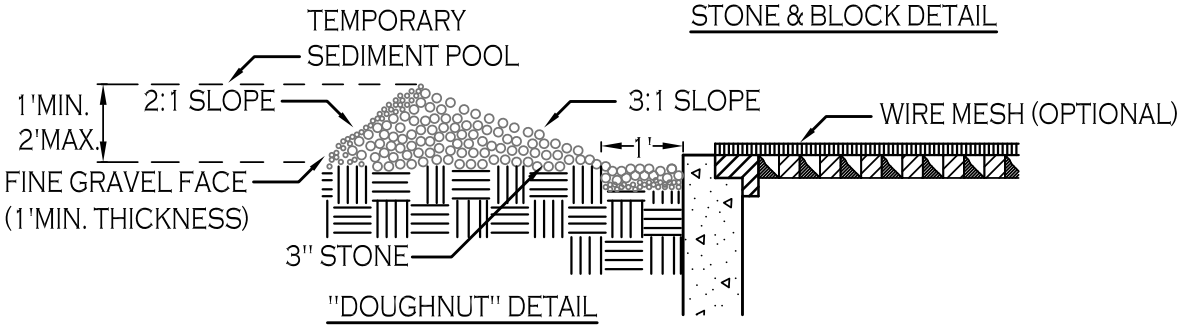
Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL



"DOUGHNUT" DETAIL

CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.

2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.

3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.

4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

NOT TO SCALE

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

EXISTING TREE PROTECTION FENCE

MATERIALS

MATERIALS FOR TEMPORARY PLASTIC BARRIER FENCES SHALL MEET THE FOLLOWING REQUIREMENTS:

- FENCE: HIGH-DENSITY POLYETHYLENE MESH, ULTRAVIOLET-STABILIZED MIN. 2 YEARS; MINIMUM HEIGHT 4.0 FEET. COLOR: HIGH-VISIBILITY ORANGE OR GREEN. WHEN USED TO PROTECT TREES OR OTHER VEGETATION, COLOR SHALL BE HIGH-VISIBILITY ORANGE.
- POSTS: RIGID METAL OR WOOD POSTS, MINIMUM LENGTH 6.0 FEET.
- TIES: STEEL WIRE, #14 GAUGE OR NYLON CABLE TIES.
- WARNING SIGNS: SHEET METAL, PLASTIC OR OTHER RIGID, WATERPROOF MATERIAL, 1.5 FEET BY 2.0 FEET WITH 4 INCH BLACK LETTERS ON A WHITE BACKGROUND. TEXT SHALL BE: "PROTECTED SITE - KEEP OUT" UNLESS OTHERWISE SPECIFIED.

DETAILS

FENCES SHALL BE ERECTED PRIOR TO MOVING CONSTRUCTION EQUIPMENT ONTO ANY AREA DESIGNATED FOR PROTECTION.

THE LINE OF FENCES SHALL BE STAKED OR MARKED OUT ON THE GROUND BY THE CONTRACTOR AND APPROVED BY THE ENGINEER/OWNER BEFORE ANY FENCE IS INSTALLED. WHERE USED FOR PROTECTION OF INDIVIDUAL TREES, FENCE SHALL BE PLACED AT THE DRIP LINE (EXTENT OF CANOPY). IF NOT POSSIBLE, PLACEMENT SHALL BE AS CLOSE TO THE DRIP LINE AS POSSIBLE AND IN NO CASE LESS THAN 5.0 FEET AWAY FROM THE TREE TRUNK.

ON APPROVAL OF THE STAKEOUT, POSTS SHALL BE SECURELY DRIVEN ON 6.0 FOOT-MAXIMUM CENTERS, NORMAL TO THE GROUND, TO A DEPTH 1/3 OF THE TOTAL POST LENGTH. PLASTIC BARRIER FENCE SHALL BE PLACED ALONG THE SIDE OF ALL POSTS. ENDS OF FENCING SEGMENTS SHALL OVERLAP A DISTANCE OF AT LEAST ONE HALF THE FENCE HEIGHT.

FENCING SHALL BE SECURED TO POSTS WITH WIRE OR CABLE TIES AT TOP, MIDDLE AND BOTTOM OF POST. FASTENER SHALL BE TIGHT ENOUGH TO PREVENT THE FENCING FROM SLIPPING DOWN. OVERLAPS SHALL ALSO BE SECURELY FASTENED.

BARRIER FENCE WHICH IS NOT ORANGE IN COLOR SHALL BE FLAGGED AT 6.0 FOOT INTERVALS WITH RED OR ORANGE FLORESCENT TAPE. WARNING SIGNS SHALL BE MOUNTED ON THE FENCE AT NO MORE THAN 100 FOOT INTERVALS.

MAINTENANCE SHALL COMMENCE IMMEDIATELY AFTER ERECTION OF THE FENCE AND CONTINUE UNTIL ONE WEEK PRIOR TO ACCEPTANCE OF THE CONTRACT, AND SHALL CONSIST OF: REPLACING DAMAGED POST(S) AND FENCING; RE-FASTENING AND TIGHTENING FENCING; AND RESTORING FENCE TO ITS INTENDED HEIGHT.

FENCING USED FOR TREE OR OTHER VEGETATION PROTECTION SHALL NOT BE TEMPORARILY REMOVED TO ALLOW EQUIPMENT ACCESS OVER A PROTECTED AREA, EXCEPT AS REQUIRED FOR ITEMS OF WORK SPECIFICALLY SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER IN WRITING.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix K

NYSDEC Stormwater Management Inspection Lists

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Bioretetion Areas (F-5)



Description: Shallow stormwater basin or landscaped area which utilizes engineered soils and vegetation to capture and treat runoff. The practice is often located in parking lot islands, and can also be used to treat residential areas.

KEY CONSIDERATIONS

CONVEYANCE

- Provide overflow for the 10-year storm to the conveyance system.
- Conveyance to the system is typically overland flow delivered to the surface of the system, typically through curb cuts or over a concrete lip.

PRETREATMENT

- Pretreatment consists of a grass channel or grass filter strip, a gravel diaphragm, and a mulch layer, sized based on the methodologies described in Section 6.4.2.

TREATMENT

- Treatment area should have a four foot deep planting soil bed, a surface mulch layer, and a 6" ponding layer.
- Size the treatment area using equations provided in Chapter 6.

LANDSCAPING

- Detailed landscaping plan required.

MAINTENANCE

- Inspect and repair/replace treatment area components
- Stone drop (at least 6") provided at the inlet
- Remulch annually

STORMWATER MANAGEMENT SUITABILITY

- [X] Water Quality
- [ ] Channel Protection
- [ ] Overbank Flood Protection
- [ ] Extreme Flood Protection

Accepts Hotspot Runoff: *Yes*
(requires impermeable liner)

IMPLEMENTATION CONSIDERATIONS

- [M] Capital Cost
- [M] Maintenance Burden

Residential
Subdivision Use: *Yes*

High Density/Ultra-Urban: *Yes*

Drainage Area: *5 acres max.*

Soils: *Planting soils must meet specified criteria; No restrictions on surrounding soils*

Other Considerations:

- *Use of native plants is recommended*

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

	Key: L=Low **M**=Medium **H**=High **POLLUTANT REMOVAL** **G** Phosphorus **G** Nitrogen **G** Metals - Cadmium, Copper, Lead, and Zinc removal **F** Pathogens – Coliform, Streptococci, E.Coli removal **Key**: **G**=Good **F**=Fair **P**=Poor

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Bioretention Construction Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Pre-Construction		
Pre-construction meeting		
Runoff diverted		
Facility area cleared		
If designed as exfilter, soil testing for permeability		
Facility location staked out		
2. Excavation		
Size and location		
Lateral slopes completely level		
If designed as exfilter, ensure that excavation does not compact susoils.		
Longitudinal slopes within design range		

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
3. Structural Components		
Stone diaphragm installed correctly		
Outlets installed correctly		
Underdrain		
Pretreatment devices installed		
Soil bed composition and texture		
4. Vegetation		
Complies with planting specs		
Topsoil adequate in composition and placement		
Adequate erosion control measures in place		
5. Final Inspection		
Dimensions		
Proper stone diaphragm		
Proper outlet		
Soil/ filter bed permeability testing		
Effective stand of vegetation and stabilization		
Construction generated sediments removed		
Contributing watershed stabilized before flow is diverted to the practice		

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Comments:

Actions to be Taken:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Bioretention Operation, Maintenance and Management Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. Debris Cleanout (Monthly)		
Bioretention and contributing areas clean of debris		
No dumping of yard wastes into practice		
Litter (branches, etc.) have been removed		
2. Vegetation (Monthly)		
Plant height not less than design water depth		
Fertilized per specifications		
Plant composition according to approved plans		
No placement of inappropriate plants		
Grass height not greater than 6 inches		
No evidence of erosion		
3. Check Dams/Energy Dissipaters/Sumps (Annual, After Major Storms)		
No evidence of sediment buildup		

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
Sumps should not be more than 50% full of sediment		
No evidence of erosion at downstream toe of drop structure		
4. Dewatering (Monthly)		
Dewaters between storms		
No evidence of standing water		
5. Sediment Deposition (Annual)		
Swale clean of sediments		
Sediments should not be > 20% of swale design depth		
6. Outlet/Overflow Spillway (Annual, After Major Storms)		
Good condition, no need for repair		
No evidence of erosion		
No evidence of any blockages		
7. Integrity of Filter Bed (Annual)		
Filter bed has not been blocked or filled inappropriately		

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Comments:

Actions to be Taken:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix L

Wetland Delineation Report: by Earth Dimensions

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Wetland and Waterbodies Delineation Report

for

5500 MILLERSPORT HIGHWAY

Town of Amherst

Erie County, New York

for

Kevin Stephens

EARTH DIMENSIONS, INC.
1091 Jamison Road, Elma, NY 14059
www.earthdimensions.com
716-655-1717

September 9, 2024
EDI Project Code: **W8A16a**

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

REPORT SUMMARIZING
THE RESULTS OF
A WETLAND DELINEATION SURVEY OF

5500 MILLERSPORT HIGHWAY

Prepared for Submission to:

U.S. ARMY CORPS OF ENGINEERS
478 MAIN STREET
BUFFALO, NEW YORK 14202

AND

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
700 DELAWARE AVENUE
BUFFALO, NEW YORK 14209

Prepared By:

EARTH DIMENSIONS, INC.
1091 JAMISON ROAD
ELMA, NEW YORK 14059

Prepared For:

KEVIN STEPHENS
STEPHENS PLUMBING & HEATING INC.
5500 MILLERSPORT HIGHWAY
EAST AMHERST, NEW YORK 14051
KJS@STEPHENSPLUMBINGNY.COM
(716) 512-9451

REPORT DATE: September 9, 2024

EDI PROJECT CODE: W8A16a

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

PROJECT INFORMATION

Project Name	5500 Millersport Highway
Street Address	5500 Millersport Highway
SBL Number	4.00-3-20
Town	Amherst
County	Erie
State	New York
Latitude/Longitude (NAD83)	43.08004°N, -78.70095°W
Investigation Area	4.92± Acres
USGS 7.5 Minute Topographical Map	Clarence Center Quadrangle
Waterway	N/A
Hydrologic Unit Code	04120104
Date of Delineation	September 6, 2024
Consultant	Earth Dimensions, Inc. 1091 Jamison Road Elma, New York 14059
Point of Contact	Alex Molik (716)655-1717 alex@earthdimensions.com
Engineer	Carmina Wood Design
Property Owner	5500 Millersport Highway LLC
Authority	Section 404, Article 24
Permit/Letter Being Requested	Jurisdictional Determination

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

EXECUTIVE SUMMARY

Kevin Stephens has proposed the development of a 4.92± acre parcel located along the northwest side of Millersport Highway in the Town of Amherst, County of Erie, and State of New York. Kevin Stephens has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation report that would allow the U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) to determine their jurisdictional authority over the investigation area, pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law. The proposed project does not qualify for Bipartisan Infrastructure Law (BIL) funding.

A preliminary review of available information pertaining to vegetation, soils, and hydrology in the project area was implemented prior to conducting a field investigation at the site. Sources of information included the United States Geological Survey (USGS), Natural Resources Conservation Service (NRCS), National Wetland Inventory (NWI), and NYSDEC Freshwater Wetland maps. The NRCS and NWI maps indicate the potential for wetlands under federal jurisdiction. The NYSDEC map indicates the potential for wetlands under state jurisdiction.

EDI applied methodology specified by the Corps of Engineers Wetlands Delineation Manual (January 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0 (January 2012) to perform a delineation of Federal jurisdictional wetlands within the site. EDI identified one (1) wetland area totaling 2.92± acres within the investigation area. The identification number of the wetlands, their acreage and boundary flags are as follows:

TABLE 1: WETLAND SUMMARY

Wetland Identification #	Geographic Center (WGS84)		Boundary Flag #	Total Acreage On-site	Wetland Type (Cowardin)	Wetland Type (Reschke)
	Latitude	Longitude				
Wetland 1	43.07978	-78.70143	W1-1 through W1-28	2.92±	PSS1E	Scrub-shrub
Total Wetland Acreage:				2.92±		

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

SECTION I: INTRODUCTION

Kevin Stephens has proposed the development of a 4.92± acre parcel on the northwest side of Millersport Highway in the Town of Amherst, County of Erie, and State of New York. The project has been given the name 5500 Millersport Highway and is located on USGS 7.5 minute quadrangle map indexed as Amherst Center (Figure 1). The field work was completed on September 6, 2024 using a Trimble TDC650 GPS to locate wetland and drainage boundaries.

Kevin Stephens has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study at this site. The investigation was designed to facilitate a determination of the extent of USACE and NYSDEC jurisdiction over the project area pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

EDI has performed a wetland delineation study at the site under guidelines specified by the *Corps of Engineers Wetlands Delineation Manual*, dated January 1987 (referred to hereafter as the Corps Manual) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region version 2.0* (January 2012) (referred to hereafter as the Northcentral and Northeast Regional Supplement). The purpose of this report is to present EDI's methods, results, conclusions and recommendations with respect to the 5500 Millersport Highway project site.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

SECTION II: SITE DESCRIPTION

The 5500 Millersport Highway project area is comprised of a 4.92± acre irregular shaped investigation area on the north side of Millersport Highway and west of Transit Road which is outlined on Figure 1 and depicted on the Wetland Delineation Map included in Appendix A (Figure 6).

The natural topography of the 5500 Millersport Highway site is flat to gently sloping. The upland within the investigation area consisted of a mown lawn community. The wetland area was found to consist of a scrub-shrub swamp community. The vegetative communities of the investigation area are described according to *Ecological Communities of New York State* (Edinger et al. 2014).

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

SECTION III: PRELIMINARY DATA REVIEW

A. SUMMARY OF FINDINGS

Several sources of information may be reviewed to facilitate the completion of a wetland delineation study. In some cases, it is even possible to make a preliminary office wetland determination based upon available vegetation, soils, and hydrologic information for a project area. EDI completed a preliminary review of several data sources at the onset of this study. The results of the review are summarized as follows:

1. USGS 7.5 Minute Topographical Map

The USGS quadrangle map (Figure 1) depicts the investigation area on the Clarence Center quadrangle map. The figure depicts the flat topography of the site.

2. USFWS National Wetlands Inventory Map

The National Wetlands Inventory (NWI) map (Figure 2) obtained from the USFWS Wetland Mapper http://www.fws.gov/wetlands/Data/Mapper.html displays two (2) wetland types, PFO1E and PSS1E within the investigation area. The wetlands can be decoded as:

[P] Palustrine, [SS] Scrub-shrub, [1] Broad leaved-deciduous, [E] Seasonally flooded/saturated

[P] Palustrine, [SS] Scrub-shrub,[1] Broad leaved-deciduous, [E] Seasonally flooded/saturated

3. Natural Resources Conservation Service Soils Map

The NRCS Soil Map (Figure 3) depicts the investigation area on the Erie County Soil Survey map obtained from the Web Soil Survey. As shown on that figure, the site has the following soil types:

Soil Conservation Service Legend

Map Unit Symbol	Map Unit Name	Hydric Rating
Cc	Canandaigua silt loam	95
Ge	Getzville silt loam	85

Canandaigua Series: The Canandaigua series consists of very deep, poorly and very poorly drained soils formed in silty glacio-lacustrine sediments. These soils are on lowland lake plains and in

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

depressional areas on glaciated uplands. Slope ranges from 0 to 3 percent. Mean annual temperature is 49 degrees F. and mean annual precipitation is 39 inches.

Getzville Series: The Getzville series consists of deep, poorly drained and very poorly drained soils formed in silty lacustrine sediments that overlie sandy lacustrine sediments. These nearly level soils occupy slight depressional areas on lake plains. Permeability is moderate to moderately slow in the solum and moderately rapid in the substratum. Slope ranges from 0 to 3 percent. Mean annual temperature is 49°F and mean annual precipitation is 36 inches.

The U.S. Department of Agriculture's National Technical Committee for Hydric Soils Criteria has developed a list of soils that often display hydric soil characteristics. Hydric soil typically forms in places of the landscape where surface water periodically collects for some time and/or where groundwater discharges sufficient to create waterlogged or anaerobic soils. Such anaerobic soils can support the growth and survival of hydrophytic vegetation that is tolerant of such conditions. The Hydric Rating indicates the proportion of map units that meets the criteria for hydric soils. Soil units are designated as "hydric," "predominantly hydric," "partially hydric," "predominantly nonhydric," or "nonhydric" depending on the hydric rating of its respective components. "Hydric" means that all components listed for a given map unit are rated as being hydric. "Predominantly hydric" means components that comprise 66 to 99 percent of the map unit are rated as hydric. "Partially hydric" means components that comprise 33 to 66 percent of the map unit are rated as hydric. "Predominantly nonhydric" means components that comprise up to 33 percent of the map unit are rated as hydric. "Nonhydric" means that none of the components are rated as hydric. Wetland hydrologic conditions, hydric soils, and hydrophytic vegetation are the three criteria of a wetland.

4. NYSDEC Freshwater Wetlands Map

The NYSDEC Freshwater Wetlands map (Figure 4) obtained from the online NYSDEC Environmental Resource Mapper displays the 500-foot check zone to state jurisdictional Freshwater Wetland CC-35 within and adjacent to the investigation area.

5. USGS StreamStats Drainage Map

The USGS StreamStats map (Figure 7) depicts no blue-line streams within the investigation area.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

6. FEMA Flood Map

The Federal Emergency Management Agency (FEMA) flood map (Figure 11) obtained from the National Flood Hazard Layer on-line map shows the investigation area within a flood zone identified as X. This zone represents an area with a 0.2 percent annual chance flood hazard.

B. RESULTS OF AGENCY INFORMATION REVIEW

The preliminary data review revealed that the Corps may have jurisdiction over wetlands at the project location. The evidence consisted of potential federally regulated wetlands on the NWI map (Figure 2) and hydric soils and soils with possible hydric inclusions depicted within the project area as shown on the NRCS map (Figure 3). The preliminary data review indicated that NYSDEC may have jurisdiction over wetlands on site as depicted on the NYSDEC Resource Mapper (Figure 4). Therefore, it was considered necessary to perform a field investigation at the site in order to determine the presence of federal and state protected wetlands. The methods specified in the Corps of Engineers Wetlands Delineation Manual (January 1987) and Northcentral and Northeast Regional Supplement Version 2.0 (January 2012) were employed during the field investigation. Procedures, results, and conclusions of the wetland delineation study are presented in the remainder of this report.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

SECTION IV: FIELD INVESTIGATION PROCEDURES

WETLANDS:

Step 1

EDI applied methodology specified by the 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region to perform a delineation of Federal jurisdictional wetlands within the site. EDI used the Level 2 Routine Determination method (on-site inspection necessary) since insufficient information was available for making a determination for the entire project area. This methodology is consistent with Part IV, Section D of the Corps Manual.

Step 2

EDI's initial evaluation of the project area revealed that no atypical situations existed. If an atypical situation had existed, EDI would have used methodology outlined in Part IV, Section F of the Corps manual and/or Section 5 of the Northcentral and Northeast Supplement.

Step 3

EDI made the determination that normal environmental conditions were present, as the area was not lacking hydrophytic vegetation or hydrologic indicators due to annual, seasonal or long-term fluctuations in precipitation, surface water, or groundwater levels. The Northcentral and Northeast Supplement defines the growing season as beginning when one of the following indicators of biological activity are evident in a given year: (1) above-ground growth and development of vascular plants and/or (2) soil temperature measured at 12" below ground surface reaches 41ºF. The end of the growing season is defined as the point at which deciduous species lose their leaves or the last herbaceous plants cease flowering and their leaves become dry or brown, whichever comes latest.

Step 4

In order to accurately identify the limits of various vegetative communities and extent of wetlands on-site, a routine determination method was used. As depicted in Appendix A and included in Appendix B, three (3) data points were used to characterize the site.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Step 5

The plant community inhabiting each observation point was characterized in accordance with methods specified in the Northcentral and Northeast Regional Supplement. Dominant plant species were identified within four vegetative strata (i.e. herb, sapling/shrub, tree and liana (woody vines) at each sampling point. The Northcentral and Northeast Regional Supplement defines the vegetative strata in the following manner:

Herb – A non-woody individual of a macrophytic species. Seedlings of woody plants (including vines) that are less than 3.28 feet in height are considered to be herbs.

Sapling/Shrub – A layer of vegetation composed of woody plants < 3.0 inches in diameter at breast height but greater than 3.28 feet in height, exclusive of woody vines.

Tree – A woody plant > 3.0 inches in diameter at breast height, regardless of height (exclusive of woody vines)

Liana – A layer of vegetation in forested plant communities that consist of woody vines greater than 3.28 feet in height.

As outlined in the manual, the quadrant sizes used for the vegetative strata were (i) a 3.28-foot radius for herbs; (ii) a ten-foot radius for saplings/shrubs and woody vines; and (iii) a 30-foot radius for trees. Dominant plant species were estimated using aerial coverage methods. Dominant species are defined in the Corps Manual as the most abundant plant species that when ranked in descending order of abundance and cumulatively totaled immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species comprising 20 percent or more of the total dominance measure.

The wetland indicator status (OBL, FACW, FAC, FACU, or UPL) listed for each identified species by the U.S. Fish and Wildlife Service in the National List of Plant Species that Occur in Wetlands: Northeast (Region 1) was recorded. The U.S. Fish and Wildlife wetland indicator status listings are defined as follows:

OBL – Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability < 1 percent) in nonwetlands.

FACW – Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands, but also occur (estimated probability 1 percent to 33 percent) in nonwetlands.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

FAC – Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and nonwetlands.

FACU – Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands but occur more often (estimated probability >67 percent to 99 percent) in nonwetlands.

UPL – Plants that occur rarely (estimated probability < 1 percent) in wetlands but occur almost always (estimated probability >99 percent) in nonwetlands under natural conditions.

The plant community data was summarized on the data forms provided in the Northcentral and Northeast Regional Supplement included in this report as Appendix B.

Step 6

Plant data from each observation point were tested against the hydrophytic vegetation criterion specified in the Corps Manual and Northcentral and Northeast Regional Supplement. The Northcentral and Northeast Regional Supplement identifies a four-tiered approach for making a determination of whether or not the hydrophytic vegetation criteria is met for a sample plot. Indicator 1 (Rapid Test for Hydrophytic Vegetation) was first applied to determine if all dominant species across all strata are rated OBL and/or FACW. If Indicator 1 did not meet the hydrophytic vegetation criteria, Indicator 2 was then applied (dominance test); if greater than 50% of all plant species across all strata were rated OBL, FACW, or FAC, the hydrophytic vegetation criteria was considered met. In rare cases, when Indicators 1 and 2 did not meet the hydrophytic vegetation criteria but soils and hydrology criteria were met, Indicators 3 (Prevalence Index) and 4 (Morphological Adaptations) were used to make a final determination. All observation points that met the hydrophytic vegetation criterion were considered potential wetlands. Soils were then characterized.

Step 7

The Corps Manual specifies that soils need not be characterized (and are assumed hydric soils) at sampling points meeting the hydrophytic vegetation criterion if: (i) all dominant plant species have an indicator status of OBL, or (ii) all dominant species have an indicator status of OBL and/or FACW, and the wetland boundary is abrupt (at least one dominant OBL species must be present). All observation points sampled during this field investigation were examined directly for soil and hydrologic characteristics.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Step 8

At observation points requiring a soil evaluation, soil borings were performed by an EDI Soil Scientist using methods specified in the Northcentral and Northeast Regional Supplement. Soil pits were dug using a tile spade. Testpits were generally dug to a depth of 20 inches below ground surface. Soils were examined for any of the hydric soil indicators, as outlined in the Field Indicators of Hydric Soils in the United States. A determination was made as to whether or not the hydric soil criterion was met. Soils data was recorded on the data forms included in Appendix B of this report.

Step 9

EDI's Soil Scientist examined hydrologic indicators using methods specified by the Northcentral and Northeast Regional Supplement at each observation point. The wetland hydrology criterion was met if: (i) one or more primary field indicators was materially present, (ii) available hydrologic records provided necessary evidence, or (iii) two or more secondary indicators were present. Results were recorded on data forms taken from the Corps Manual and are included in this report as Appendix B.

Step 10

A wetland determination was made for every observation point. If a sample plot met the hydrophytic vegetation, hydric soil, and wetland hydrology criteria, the area was considered to be wetland.

Step 11

Based on the results of the transected data, wetland boundaries were established for each identified wetland using survey ribbon labeled “wetland delineation” and numbered consecutively along each wetland boundary. As outlined in the Corps Manual, the placement of flags was based on the limits of areas where all three parameters were met. Wetland flags were labeled W1-1 through W1-28.

STREAMS & DRAINAGES:

The federally regulated Ordinary High Water (OHW) mark of streams within the Project area were delineated utilizing the definitional criteria as presented in Title 33, Code of Federal Regulations, Part 328, and the USACE Regulatory Guidance Letter 05-05 – Guidance on Ordinary

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

High Water Mark Identification. Each stream is categorized in regard to its flow regime as perennial, intermittent, or ephemeral, as defined by the USACE. The Ordinary High Water (OHW) mark for each stream is surveyed using the Trimble Geo 7X GPS. Each stream is assigned a letter designation, and survey points are numbered consecutively. Substrate characteristics and water depth are noted. Streams classified as AA, A, B, C, C(t), C(ts) and D in the State of New York are regulated by NYSDEC under Article 15 Use and Protection of Waters. Streams are given classifications which designate the level of protection afforded to each waterbody. Class AA and A are assigned to sources of drinking water. Class B streams are best suited for swimming and other contact recreation, but not drinking water. Class C streams identify waters that support fishing and non-contact activities. A classification with (t) designated a stream with the potential to support trout populations. A classification of (ts) identifies waters that may support trout spawning. Class D waters are the lowest classification and are often highly imperiled.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

SECTION V: RESULTS AND CONCLUSIONS

Earth Dimensions, Inc. (EDI) has completed a wetland delineation study at the 5500 Millersport Highway site located in the Town of Amherst, County of Erie, and State of New York. A field investigation was conducted by a Soil Scientist and a Wetland Ecologist from EDI. The wetland delineation study identified one (1) wetland totaling 2.92± acres present within the 5500 Millersport Highway site. No streams or waterbodies were identified within the investigation area.

Figure 5 depicts the vegetative communities as they existed at the time of the investigation. The upland within the investigation area was comprised of a mown lawn community. The wetland area was found to consist of a scrub-shrub swamp community. The vegetative communities of the investigation area are described according to Ecological Communities of New York State (Edinger et al. 2014).

The mown lawn community was dominated by the following species: Kentucky bluegrass (*Poa pratensis*) and white clover (*Trifolium repens*).

Wetland W1 is a 2.92± acre scrub-shrub swamp dominated by eastern cottonwood (*Populus deltoides*), pin oak (*Quercus palustris*), Bebb's willow (*Salix bebbiana*), green ash (*Fraxinus pennsylvanica*), calico aster (*Symphyotrichum lateriflorum*), and sensitive fern (*Onoclea sensibilis*). Soils within wetland W1 are mapped as Getzville silt loam and had topsoil colors of 10YR4/2 with 15% 10YR5/8 mottles and 10YR4/1 with 5% 10YR5/8 mottles. Wetland W1 had a subsoil color of 10YR5/1 with 15% 10YR5/8 mottles. The texture is silt loam, silty clay loam, and silty clay. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W1 included Water-Stained Leaves (B9).

A map which depicts the site boundaries and the location of all observation points established during the field survey is included as Figure 6 in Appendix A of this report. Data forms are included as Appendix B. Appendix C includes representative photographs of the project area. Appendix D notes the references used during the preparation of this report and during the field investigation. Appendix E provides the names, addresses and phone numbers of the survey personnel involved in the wetland delineation study.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

SECTION VI: RECOMMENDATIONS

One (1) wetland area was identified during the course of a field investigation based upon the three-parameter technique (vegetation, soils, and hydrology) outlined in the Corps Manual and Northcentral and Northeast Regional Supplement. EPA provided preliminary guidance on August 29, 2023 in response to the May 25, 2023, the U.S. Supreme Court ruling in the Sackett v EPA case. USACE and NYSDEC approach their regulatory analyses by first considering avoidance of wetlands and minimization of wetland losses. EDI recommends the following:

(1) Submit this report to USACE and NYSDEC with a request for a wetland boundary confirmation and jurisdictional determination.

(2) If no impacts are proposed to federal or state regulated wetlands or state regulated 100-foot adjacent area based on the outcome of the jurisdictional determination, it is the professional opinion of EDI that the project may proceed without the need for Section 404, or Article 24 Permits.

(3) If any NYSDEC regulated upland adjacent area or federal or state jurisdictional wetland impacts are proposed, it is EDI's recommendation that a Joint Application for Permit and supporting documentation be submitted to the USACE and NYSDEC with a request for a Section 404 Permit, Section 401 Water Quality Certification, and/or an Article 24 Permit.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX A - FIGURES

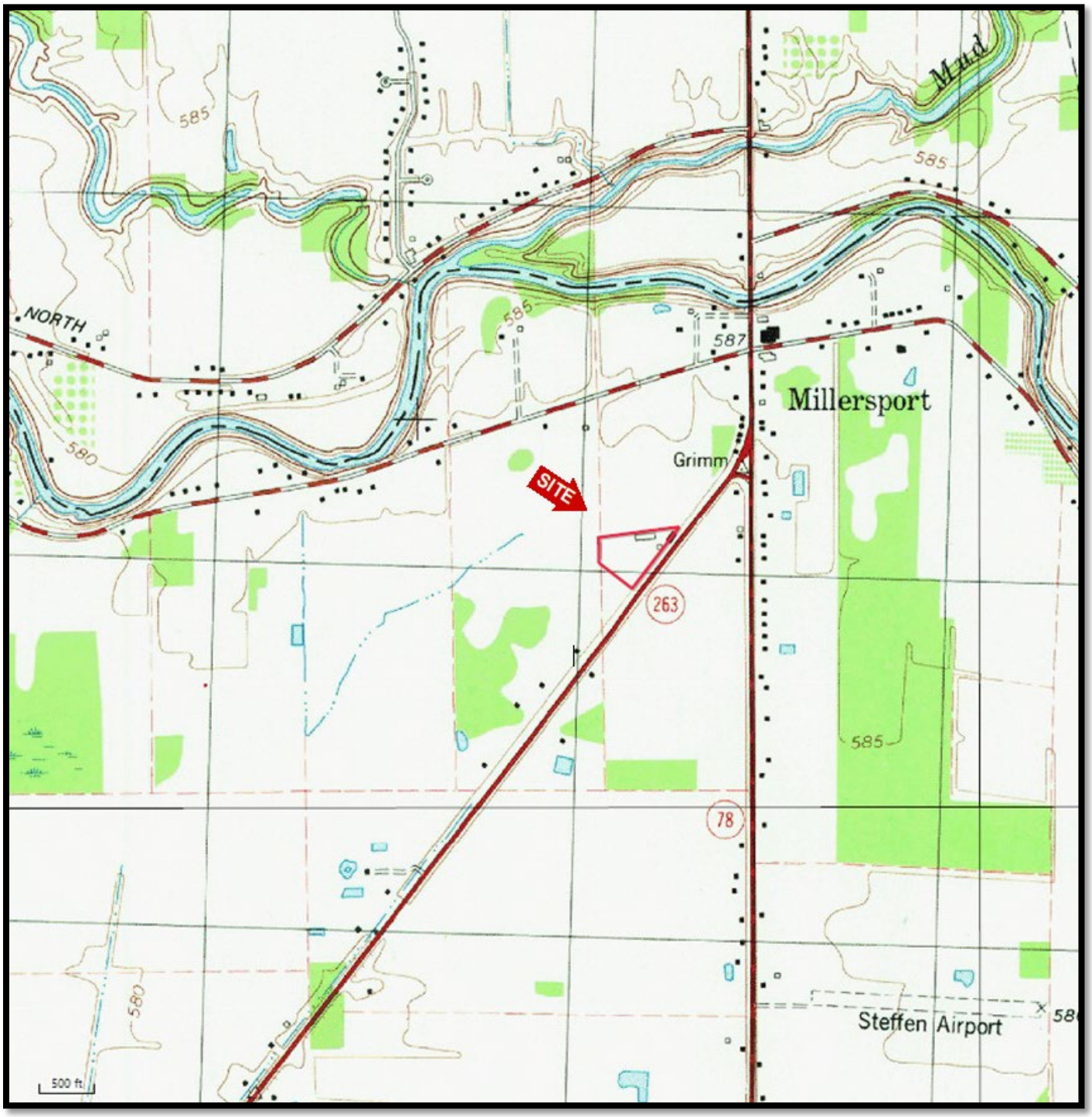


FIGURE 1: USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Clarence Center Quadrangle / U.S. Geological Survey

5500 Millersport Highway

Town of Amherst, Erie County, New York

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



FIGURE 2: NATIONAL WETLANDS INVENTORY MAP

http://www.fws.gov/wetlands/data/mapper.HTML (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

FIGURE 3: NRCS SOIL SURVEY MAP

http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York

Hydric Rating by Map Unit—Erie County, New York
(Parcel)

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Lines
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Points
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 23, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 28, 2020—Jul 4, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Cc	Canandaigua silt loam	95	1.2	23.5%
Ge	Getzville silt loam	85	3.8	76.5%
Totals for Area of Interest			**4.9**	**100.0%**

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



FIGURE 4: NYSDEC ENVIRONMENTAL RESOURCE MAPPER

https://gisservices.dec.ny.gov/gis/erm/ (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York

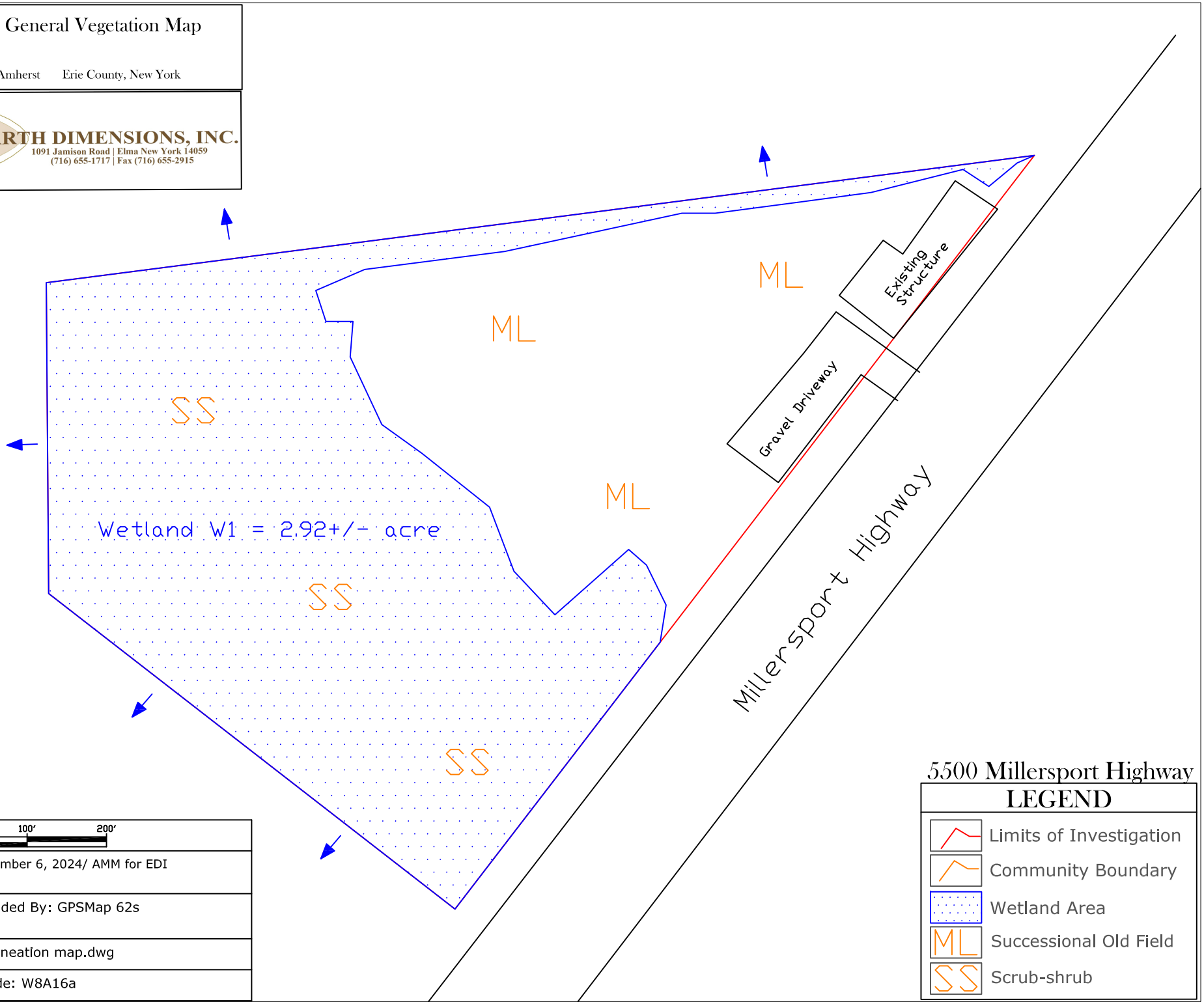
Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

ure 5 - General Vegetation Map

Town of Amherst Erie County, New York

EARTH DIMENSIONS, INC.
1091 Jamison Road | Elma New York 14059
(716) 655-1717 | Fax (716) 655-2915



5500 Millersport Highway

LEGEND

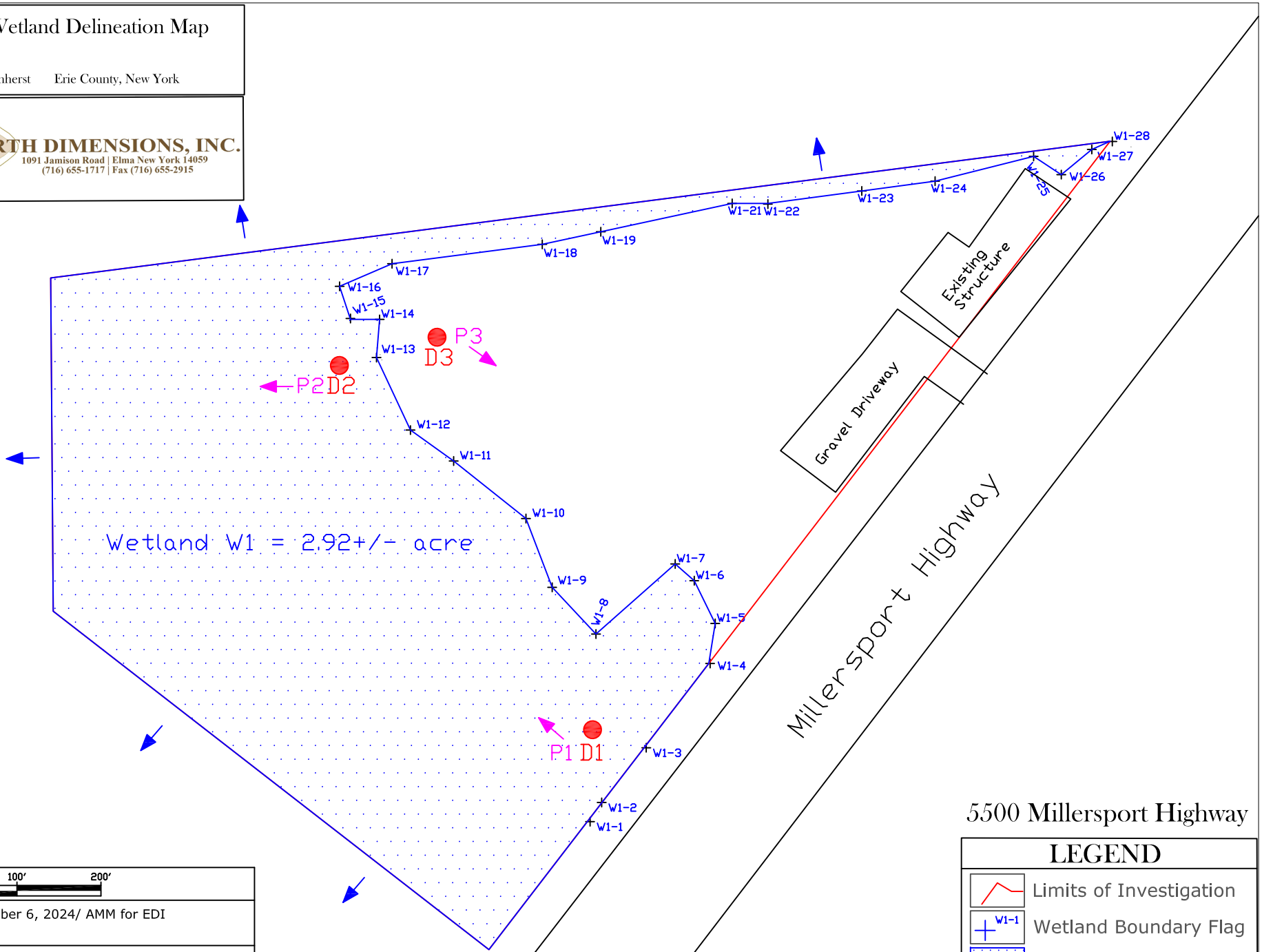
- Limits of Investigation
- Community Boundary
- Wetland Area
- ML Successional Old Field
- SS Scrub-shrub

Scale: 0 100′ 200′
Map Date: September 6, 2024/ AMM for EDI Revised:
Base Map Provided By: GPSMap 62s
File Name: Delineation map.dwg
EDI Project Code: W8A16a

ıre 6 - Wetland Delineation Map

Town of Amherst Erie County, New York

EARTH DIMENSIONS, INC.
1091 Jamison Road | Elma New York 14059
(716) 655-1717 | Fax (716) 655-2915

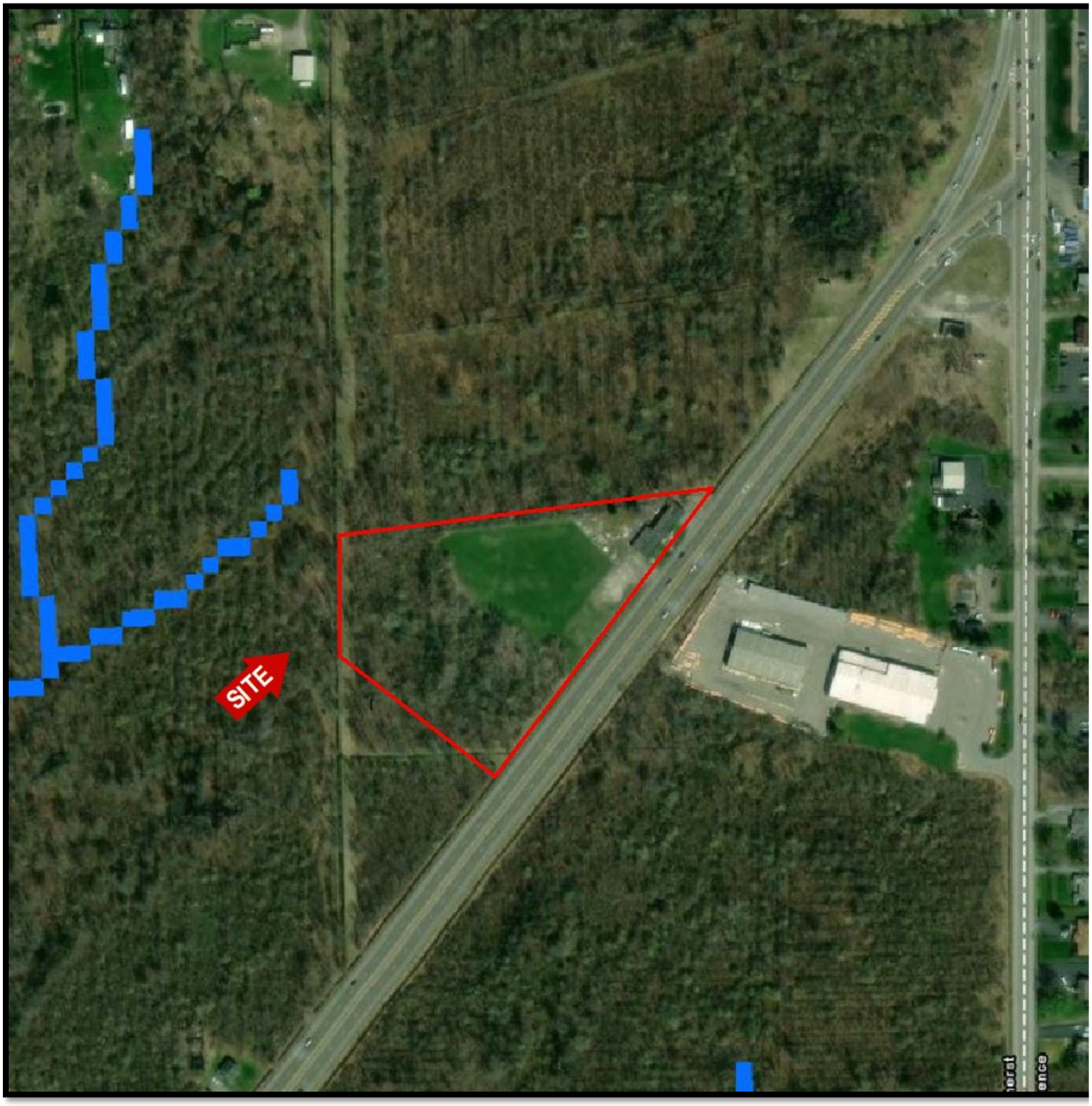


5500 Millersport Highway

LEGEND

- Limits of Investigation
- W1-1 Wetland Boundary Flag
- Wetland Area
- P1 Photo Location
- D1 Data Point Location

Scale: 0 100′ 200′
Map Date: September 6, 2024/ AMM for EDI Revised:
Base Map Provided By: GPSMap 62s
File Name: Delineation map.dwg
EDI Project Code: W8A16a



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

FIGURE 7: DRAINAGE MAP

https://streamstats.usgs.gov/ss/ (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York



Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

FIGURE 8: SITE AERIAL PHOTOGRAPH

https://gis.erie.gov/public/HTML5/ErieCountyNY/ (Visited 9/6/24)

5500 Millersport Highway

Town of Amherst, Erie County, New York

Figure 9 - Aerial Photo with Wetlands

Town of New Haven Oswego County, New York

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

gure 10 - Soils Map with Wetlands

Town of New Haven Oswego County, New York

EARTH DIMENSIONS, INC.
1091 Jamison Road | Elma New York 14059
(716) 655-1717 | Fax (716) 655-2915



National Flood Hazard Layer FIRMette

78°42'21"W 43°5'2"N



78°41'44"W 43°4'35"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BF Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, V
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazar as of 1% annual chance flood with a depth less than one foot or with d areas of less than one square mil
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk du Levee. See Notes. Zone X
- Area with Flood Risk due to Levee

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard Zo
- Effective LOMRs
- Area of Undetermined Flood Haza

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Ch
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an appro point selected by the user and does not r an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This ma was exported on 9/6/2024 at 12:01 PM and does not reflect changes or amendments subsequent to this date an time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following n elements do not appear: basemap imagery, flood zone labe legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized area regulatory purposes.

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX B – DATA SHEETS

Project Code: W8A16a

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 5500 Millersport Highway Town/County: Amherst/Erie County Sampling Date: September 6, 2024

Applicant/Owner: Stephens Plumbing & Heating, Inc. State: New York Sampling Point: D1

Investigator(s): Scott Livingstone & Alex Molik Section, Township, Range: 4.00-3-20

Landform (hillslope, terrace, etc.): LAKE PLAIN Local relief (concave, convex, none): NONE Slope (%): <1

Subregion (LRR or MLRA) LRRL Lat: 43.07955°N Long: -78.79058°W Datum: NAD83

Soil Map Unit Name: GETZVILLE SIlt loam NWI classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: W1

Remarks: (Explain alternative procedures here or in a separate report.)

• W1-1 -> W1-28 (OPEN)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

VEGETATION : Use scientific names of plants. Sampling Point: D1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	15	Y	FAC
2. Quercus palustris	10	Y	FACW
3. Fraxinus pennsylvanica	5	N	FACW
4.			
5.			
6.			
7.			
	30	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15')			
1. Salix babbiana	30	Y	FACW
2. Populus deltoides	15	Y	FAC
3. Fraxinus pennsylvanica	5	Y	FACW
4. Lonicera tatarica	10	N	FACW
5. Quercus palustris	5	N	FACW
6.			
7.			
	75	= Total Cover	

Herb Stratum (Plot size: 5')			
1. Fraxinus pennsylvanica	25	Y	FACW
2. Symphyotrichum lanceolatum	20	Y	FAC
3. Onoclea sensibilis	15	Y	FACW
4. Persicaria virginiana	10	N	FAC
5. Glyceria striata	5	N	OBL
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	75	= Total Cover	

Woody Vine Stratum (Plot size: 30')			
1. Vitis aestivalis	5	Y	FACW
2.			
3.			
4.			
	5	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 9 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 88.9 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

__ 3 - Prevalence Index is < 3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: Forested Swamp

Hydrophytic Vegetation Present? Yes X No __

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P1 **Direction of Photo** NW

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millerspport Highway)

SOIL Sampling Point: D1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR4/2	85	10YR5/8	15	C	M	SiCl	
4-20	10YR5/1	85	10YR5/8	15	C	M	SiC	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Project Code: W8A16a

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 5500 Millersport Highway Town/County: Amherst/Erie County Sampling Date: September 6, 2024

Applicant/Owner: Stephens Plumbing & Heating, Inc. State: New York Sampling Point: D2

Investigator(s): Scott Livingstone & Alex Molik Section, Township, Range: 4.00-3-20

Landform (hillslope, terrace, etc.): LAKEPlain Local relief (concave, convex, none): CONCAVE Slope (%): <1

Subregion (LRR or MLRA) LRRL Lat: 43.08050°N Long: -78.70123°W Datum: NAD83

Soil Map Unit Name: Getzville Silt loam NW I classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: W1

Remarks: (Explain alternative procedures here or in a separate report.)

• W1-1 → W1-28 (OPEN)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

VEGETATION : Use scientific names of plants.

Sampling Point: P2

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Fraxinus pennsylvanica	15	Y	FACW
2. Populus deltoides	5	Y	FAC
3.			
4.			
5.			
6.			
7.			
	20	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15')			
1. Salix bebbiana	35	Y	FACW
2. Fraxinus pennsylvanica	15	Y	FACW
3. Quercus palustris	10	N	FACW
4. Lindera benzoin	5	N	FACW
5.			
6.			
7.			
	105	= Total Cover	

Herb Stratum (Plot size: 5')			
1. Onoclea sensibilis	45	Y	FACW
2. Fraxinus pennsylvanica	20	Y	FACW
3. Persicaria virginiana	15	N	FAC
4. Glyceria striata	10	N	OBL
5. Agrimonia parviflora	5	N	FAC
6. Solidago rugosa	5	N	FAC
7.			
8.			
9.			
10.			
11.			
12.			
	100	= Total Cover	

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals:	(A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is < 3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: Scrub-Shrub Swamp

Hydrophytic Vegetation Present? Yes X No ___

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P2 **Direction of Photo** W

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

SOIL Sampling Point: DZ

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 4/1	95	10YR 5/8	5	C	M	S: J+	
6-20	10YR 5/1	85	10YR 5/8	15	C	M	S: el-	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Project Code: W8A16a

1.c

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 5500 Millersport Highway Town/County: Amherst/Erie County Sampling Date: September 6, 2024

Applicant/Owner: Stephens Plumbing & Heating, Inc. State: New York Sampling Point: D3

Investigator(s): Scott Livingstone & Alex Molik Section, Township, Range: 4.00-3-20

Landform (hillslope, terrace, etc.): Fill PAD Local relief (concave, convex, none): CONVEX Slope (%): 3

Subregion (LRR or MLRA) LRRL Lat: 43.08632°N Long: -78.70119°W Datum: NAD83

Soil Map Unit Name: Getzville Silt loam NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil X, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: N/A

Remarks: (Explain alternative procedures here or in a separate report.)

UPLAND LAWN/FILL PAD

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season W ater Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

VEGETATION : Use scientific names of plants.

Sampling Point: D3

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Herb Stratum (Plot size: 5')			
1. Poa pratensis	35	Y	FACU
2. Trifolium repens	25	Y	FACU
3. Lotus corniculatus	20	N	FACU
4. Taraxacum officinale	10	N	FACU
5. Centaurea stoebe	10	N	NI
6. Solidago rugosa	5	N	FACU
7.			
8.			
9.			
10.			
11.			
12.			
	105 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	95	x 4 =	380
UPL species	0	x 5 =	0
Column Totals:	95 (A)		380 (B)

Prevalence Index = B/A = 4.0

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is < 3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: Mowed Lawn

Hydrophytic Vegetation Present? Yes ___ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 93 **Direction of Photo** SE

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

SOIL

Sampling Point: D3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR3/1	100					S:CL	Fill

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: HARD FILL

Depth (inches): 3"

Hydric Soil Present? Yes _____ No X

Remarks:

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX C - SITE PHOTOGRAPHS



Photo 1: Facing northwest. Depicts the scrub-shrub swamp community of W1 at data point D1. 9/6/24



Photo 2: Facing west. Depicts the scrub-shrub swamp community of W1 data point D2. 9/6/24



Photo 3: Facing southeast. Depicts the mown lawn community of data point D3. 9/6/24

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX D - REFERENCES

INFORMATIONAL REFERENCES
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Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

5500 MILLERSPORT HIGHWAY

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

APPENDIX E – PROJECT CONTACT DETAILS

Wetland Personnel:

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slivingstone@earthdimensions.com

Vegetation Sampling
Alex Molik, Ecologist
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Report Preparation
Alex Molik, Ecologist
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Client Contact:

KEVIN STEPHENS
STEPHENS PLUMBING & HEATING INC.
5500 MILLERSPORT HIGHWAY
EAST AMHERST, NEW YORK 14051
KJS@STEPHENSPLUMBINGNY.COM
(716) 512-9451

Landowner Contact:

5500 Millersport Highway LLC
Company/organization
Mailing address (Street number and name)
Mailing Address (City, State, Zip)
Phone #
Email

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Appendix M

NYSSHPO Clearance Letter

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

September 19, 2024

Doug Feyes
Project Mananger
Carmina Wood Design
80 Silo City Row
Suite 100
Buffalo, NY 14203

Re: DEC
Proposed Warehouse Buildings
5500 Millersport Hwy, East Amherst, NY 14051
24PR08408

Dear Doug Feyes:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Campbell Higle at the following email address:

Campbell.Higle@parks.ny.gov

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

Attachment: SP-2024-10 application 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Proposed Warehouse Building

Amherst, New York

AGENCIES

ENGINEERING DEPARTMENT
NAME/TITLE: JEFFERY BURROUGHS, P.E. – TOWN ENGINEER
COMPANY/DEPT: TOWN OF AMHERST ENGINEERING DEPARTMENT
ADDRESS: 1100 NORTH FOREST ROAD
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7154

PLANNING & ZONING DEPARTMENT
NAME/TITLE: DANIEL HOWARD – PLANNING DIRECTOR
COMPANY/DEPT: TOWN OF AMHERST PLANNING DEPARTMENT
ADDRESS: 5583 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7051

BUILDING DEPT.
NAME/TITLE: BERKE, MARK S. – COMMISSIONER OF BUILDING
COMPANY/DEPT.: TOWN OF AMHERST BUILDING DEPT.
ADDRESS: 5583 MAIN ST.
AMHERST, NEW YORK 14221
TELEPHONE 716–631–7080

ECDOH
NAME/TITLE:
COMPANY/DEPT:. ERIE COUNTY DEPARTMENT OF HEALTH
ADDRESS: 503 KENSINGTON AVE
BUFFALO, NEW YORK 14214
TELEPHONE 716–961–6854

NYSDEC
NAME/TITLE:
COMPANY/DEPT:
ADDRESS: NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
700 DELAWARE AVE.
BUFFALO, NEW YORK 14209
TELEPHONE 716–851–7070

UTILITIES

NATURAL GAS
COMPANY/DEPT:. NATIONAL FUEL GAS CORP.
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WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–857–7000

TELEPHONE COMPANY
COMPANY/DEPT: VERIZON
ADDRESS: 65 FRANKLIN STREET
BUFFALO, NEW YORK 14203
TELEPHONE 716–840–8748

CABLE COMPANY
COMPANY/DEPT: TIME WARNER
ADDRESS: 789 CHURCH ROAD
WEST SENECA, NEW YORK
TELEPHONE 716–558–8615

ELECTRIC COMPANY
COMPANY/DEPT: NATIONAL GRID
ADDRESS: 144 KENSINGTON AVENUE
BUFFALO, NEW YORK 14214
TELEPHONE 716–236–2738

WATER
COMPANY/DEPT:. ERIE COUNTY WATER AUTHORITY
ADDRESS: 3030 UNION ROAD
CHEEKTOWAGA, NEW YORK 14227
TELEPHONE 716–684–1510

DIG SAFELY NEW YORK
TELEPHONE 1–800–962–7962

DESIGN CONSULTANTS

PROJECT SURVEYOR
NAME/TITLE:
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ADDRESS: 4950 GENESEE STREET, SUITE 100
BUFFALO, NEW YORK 14225
TELEPHONE 716–633–4844

OWNER/DEVELOPER

NAME: STEPHENS PLUMBING
ADDRESS 5500 MILLERSPORT HIGHWAY
EAST AMHERST, NY 14051
CONTACT: KEVIN STEPHENS
TELEPHONE 716-512-9451



LOCATION MAP
NOT TO SCALE

CARMINAWOOD DESIGN

November 2024
Rev. July 2025

DRAWING NO.	DRAWING TITLE
–	COVER SHEET
–	LAND SURVEY (PREPARED BY GPI ENGINEERING)
C–001	EROSION CONTROL PLAN
C–002	EROSION CONTROL DETAILS
C–100	SITE PLAN
C–101	SITE DETAILS
C–200	GRADING PLAN
C–300	STORM DRAINAGE PLAN
C–301	BASIN DETAILS
C–302	STORM DRAINAGE DETAILS
C–400	UTILITY PLAN
C–401	UTILITY DETAILS
C–402	UTILITY DETAILS
C–403	UTILITY DETAILS
C–404	UTILITY DETAILS
L–100	LANDSCAPE PLAN
L–101	LANDSCAPE DETAILS
LP–100	LIGHTING PLAN
LP–101	LIGHTING DETAILS
FT–100	FIRE TRUCK TURN PLAN

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

Proposed Warehouse Building
Amherst, New York

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

NOTE: THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE.

● SET OR EX. 5/8" REBAR

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NORTH

WEST LINE OF LOT 1, TWP 13, RGE 7 PER DEED

228.36' MAP & MEAS.

CENTERLINE DITCH

EX IP
3.13'S
0.53'E.

S68°25'48"E

737.32' MAP & MEAS.

758.47'

EX REBAR

N68°25'48"W

580.23

391.16' MAP & MEAS.

396.18'

EXCEPTION PARCEL
LIBER 7189, PAGE 621

WOODS & BRUSH

EDGE OF WOODS

TOP OF DITCH

BOTTOM OF DITCH

GRASS AREA

GRAVEL PARKING LOT

METAL CAGE

POST AND RAIL FENCE

STUCCO & FRAME BUILDING FF=584.5

STUCCO & FRAME BUILDING

2 STORY FRAME & MASONRY

CONCRETE PAD

ELECTRIC PUMP

ELECTRIC

TELEPHONE

GAS

CATCH BASIN

UP

10" WATER MAIN

UNKNOWN VAULT

2" GAS LINE

GAS VALVE

GAS METER

ELEVATOR SHAFT

ELEVATOR EL=584.83

CONCRETE

TELEPHONE PED.

TELEPHONE MH

2 STORY FRAME & MASONRY

STEEL

CONCRETE

FF=584.30

FENCE

POST AND RAIL FENCE

CHAIN LINK FENCE

EDGE OF PAVEMENT

SOLID WHITE LINE

DASHED WHITE LINE

SOLID YELLOW LINE

DASHED YELLOW LINE

HIGHWAY BOUNDARY AS A 150' WIDE HIGHWAY

LANDS APPROPRIATED BY THE STATE OF NEW YORK
MAP NO.18, PARCEL NO.177

713.65'

N70°00'00"E

EX REBAR

15.00'

N70°00'00"E

MEAS. DEED 15.00'
WEST LINE OF LOT 1

868.74' MAP & MEAS.

MILLERSPORT (130' WIDE)
N.Y. RTE. 263

HIGHWAY

498.21

DATE	REVISION/TYPE

SURVEY OF
PART OF LOT 1, TOWNSHIP 13, RANGE 7
HOLLAND LAND COMPANY'S SURVEY
TOWN OF AMHERST, ERIE COUNTY, NEW YORK

GPI ENGINEERING, LANDSCAPE ARCHITECTURE & SURVEYING, LLP
ENGINEERING • SURVEYING • LANDSCAPE ARCHITECTURE
4950 GENESEE STREET, SUITE 100
BUFFALO, NEW YORK 14225
(716) 633-4844 FAX 633-4940

Job No. 7535 Date: APRIL 30, 2019
Scale: 1" = 30' TAX No. 4.00-3-20

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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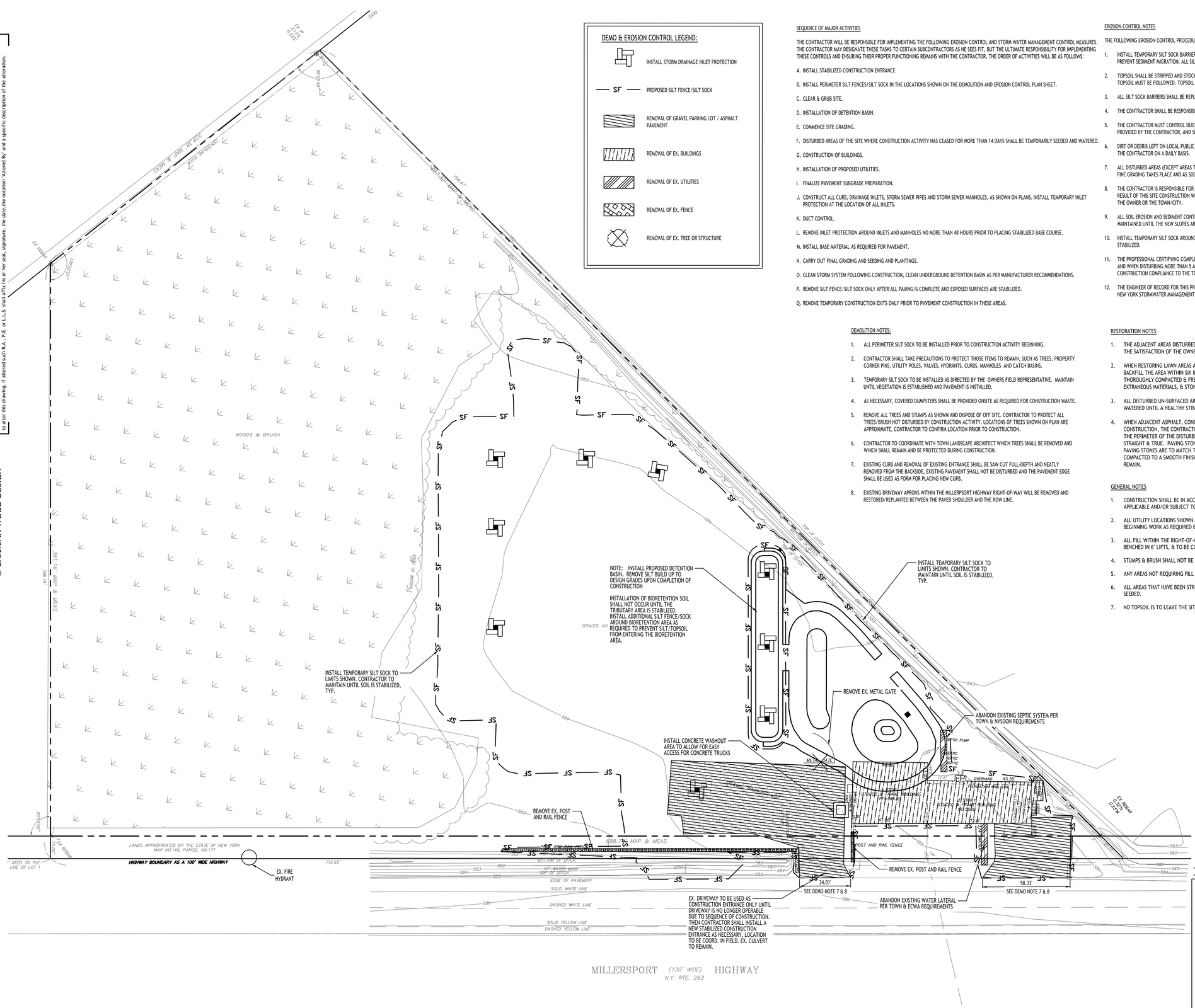
DEMO & EROSION CONTROL LEGEND:
INSTALL STORM DRAINAGE INLET PROTECTION
SF
PROPOSED SILT FENCE/SILT SOCK
REMOVAL OF GRAVEL PARKING LOT / ASPHALT PAVEMENT
REMOVAL OF EX. BUILDINGS
REMOVAL OF EX. UTILITIES
REMOVAL OF EX. FENCE
REMOVAL OF EX. TREE OR STRUCTURE
NOTE: INSTALL PROPOSED DETENTION BASIN. REMOVE SILT BUILD UP TO DESIGN GRADES UPON COMPLETION OF CONSTRUCTION
INSTALLATION OF BIORETENTION SOIL SHALL NOT OCCUR UNTIL THE TRIBUTARY AREA IS STABILIZED. INSTALL ADDITIONAL SILT FENCE/SOCK AROUND BIORETENTION AREA AS REQUIRED TO PREVENT SILT/TOPSOIL FROM ENTERING THE BIORETENTION AREA.
INSTALL TEMPORARY SILT SOCK TO LIMITS SHOWN. CONTRACTOR TO MAINTAIN UNTIL SOIL IS STABILIZED, TYP.
INSTALL CONCRETE WASHOUT AREA TO ALLOW FOR EASY ACCESS FOR CONCRETE TRUCKS
REMOVE EX. METAL GATE
ABANDON EXISTING SEPTIC SYSTEM PER TOWN & NYSDOH REQUIREMENTS
REMOVE EX. POST AND RAIL FENCE
EX. DRIVEWAY TO BE USED AS CONSTRUCTION ENTRANCE ONLY UNTIL DRIVEWAY IS NO LONGER OPERABLE DUE TO SEQUENCE OF CONSTRUCTION. THEN CONTRACTOR SHALL INSTALL A NEW STABILIZED CONSTRUCTION ENTRANCE AS NECESSARY. LOCATION TO BE COORD. IN FIELD. EX. CULVERT TO REMAIN.
ABANDON EXISTING WATER LATERAL PER TOWN & ECWA REQUIREMENTS
SEE DEMO NOTE 7 & 8
MILLERSPORT (130' WIDE) HIGHWAY
N.Y. RTE. 263
LANDS APPROPRIATED BY THE STATE OF NEW YORK MAP NO.149, PARCEL NO.177
HIGHWAY BOUNDARY AS A 100' WIDE HIGHWAY
EX. FIRE HYDRANT
WOODS & BRUSH
GRASS AREA
GRAVEL PARKING LOT
EX. BUILDING
OVERHANG
PROPOSED BUILDING
TOP OF DITCH
BOTTOM OF DITCH
10" WATER MAIN
EDGE OF PAVEMENT
SOLID WHITE LINE
DASHED WHITE LINE
SOLID YELLOW LINE
DASHED YELLOW LINE
SIGN
EX. REBAR
EX. POWER POLE
EX. CATCH BASIN
EX. MANHOLE
EX. GAS VALVE
EX. WATER VALVE
EX. HYDRANT
EX. SIGN
EX. UTILITY POLE
EX. GUY WIRE
EX. LIGHT POLE
EX. CONTOUR
EX. SPOT ELEVATION
PROP. CONTOUR
PROP. SPOT ELEVATION
PROP. SWALE
PROP. CATCH BASIN
PROP. MANHOLE
PROP. GAS VALVE
PROP. WATER VALVE
PROP. HYDRANT
PROP. SIGN
PROP. UTILITY POLE
PROP. GUY WIRE
PROP. LIGHT POLE

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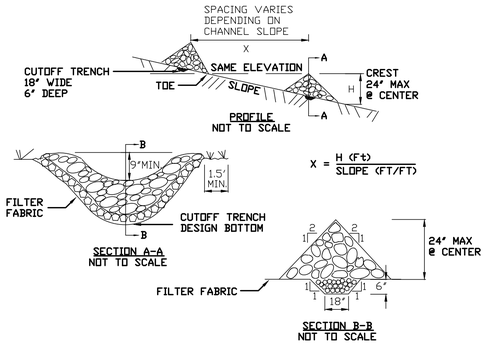


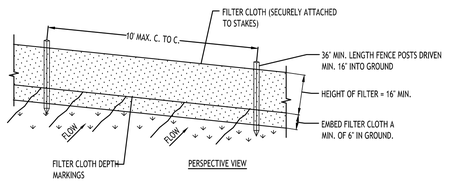
CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

STONE CHECK DAM DETAIL

NOT TO SCALE

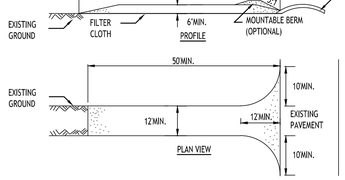


CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

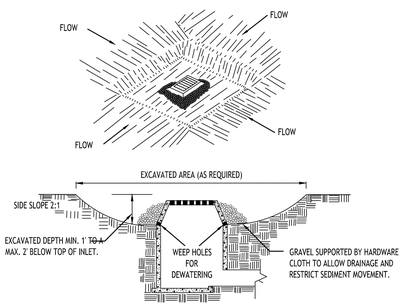


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



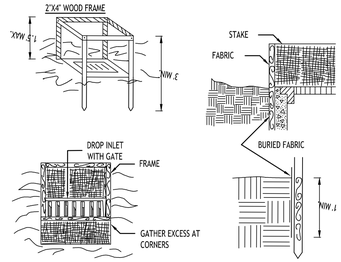
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



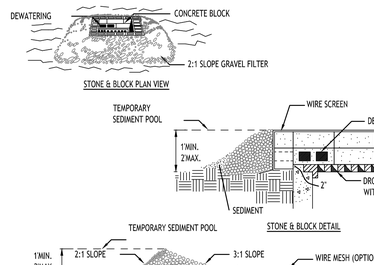
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



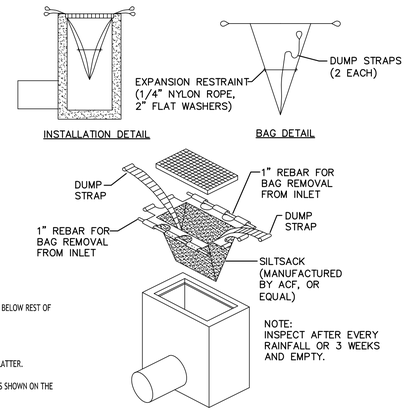
CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

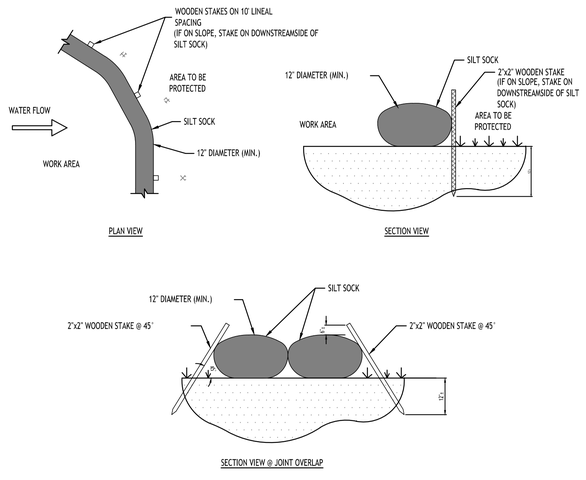
NOT TO SCALE



SILT SACK DETAIL

NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION



NOTES:

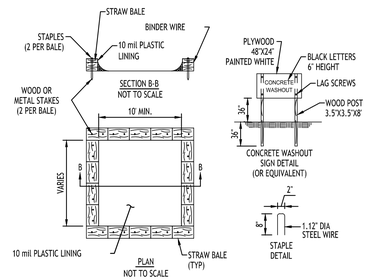
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

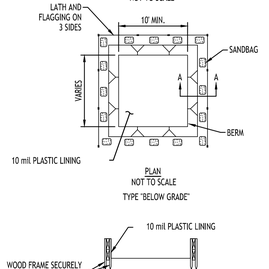
SILT SOCK DETAIL

NOT TO SCALE



NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.



CONCRETE WASHOUT DETAIL

NOT TO SCALE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:			
No.	Description	Date	
1	Rev. Per Town Comments	03/21/2025	
2	Rev. Per Town Comments	07/07/2025	

STATE OF NEW YORK
CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076394

DRAWING NAME:

Demolition & Erosion Control Details

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.

C-002

Project No: 24.4019

Attachment: SP-2024-10 drawings (82125 : (29733 : SP-2024-10, 5500 Millersport Highway)

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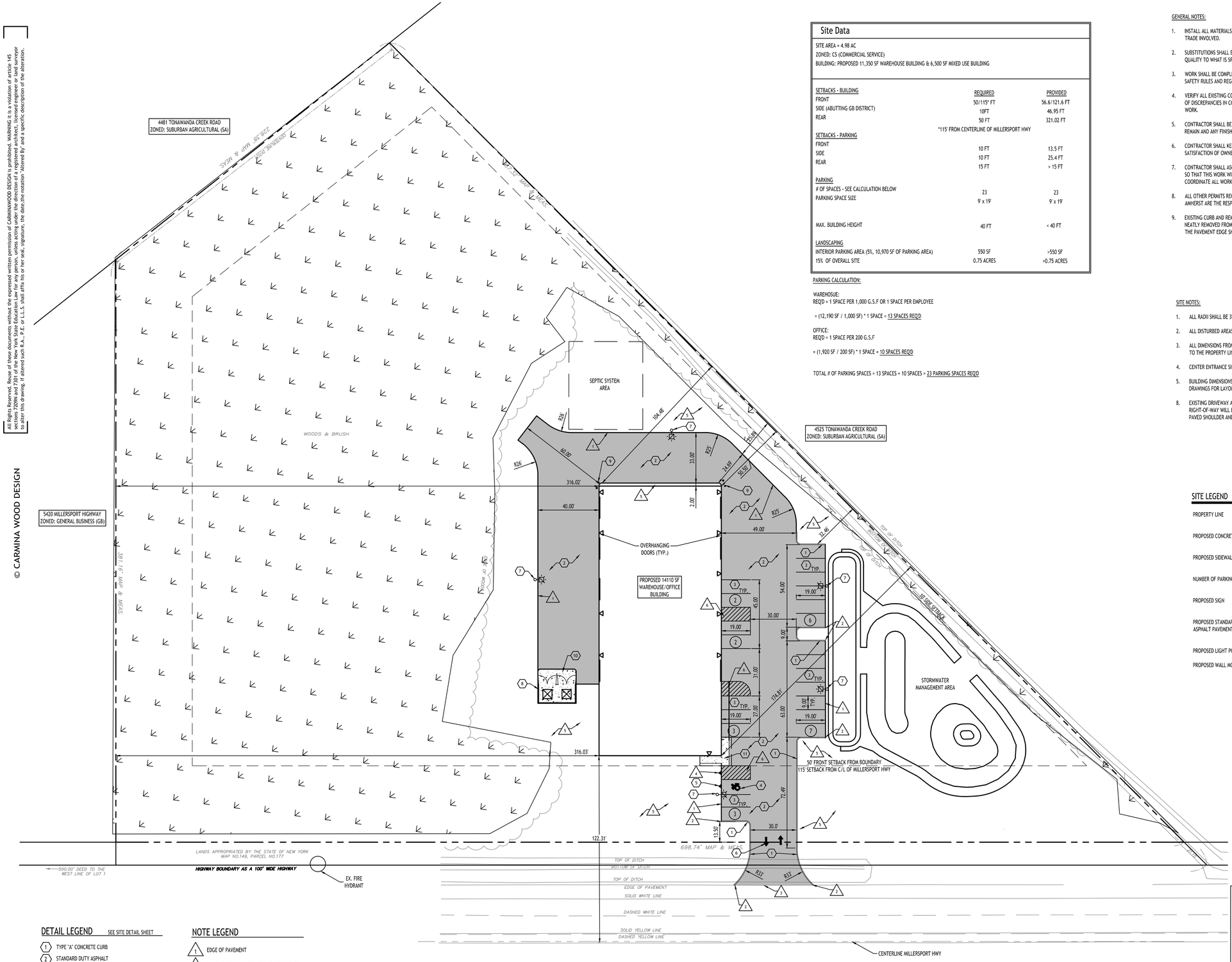

Site Data

SITE AREA = 4.98 AC
ZONED: CS (COMMERCIAL SERVICE)
BUILDING: PROPOSED 11,350 SF WAREHOUSE BUILDING & 6,500 SF MIXED USE BUILDING

	REQUIRED	PROVIDED
SETBACKS - BUILDING		
FRONT	50'/115* FT	56.6'/121.6 FT
SIDE (ABUTTING GB DISTRICT)	10FT	46.95 FT
REAR	50 FT	321.02 FT
	*115' FROM CENTERLINE OF MILLERSPORT HWY	
SETBACKS - PARKING		
FRONT	10 FT	13.5 FT
SIDE	10 FT	25.4 FT
REAR	15 FT	> 15 FT
PARKING		
# OF SPACES - SEE CALCULATION BELOW	23	23
PARKING SPACE SIZE	9' x 19'	9' x 19'
MAX. BUILDING HEIGHT	40 FT	< 40 FT
LANDSCAPING		
INTERIOR PARKING AREA (5%, 10,970 SF OF PARKING AREA)	550 SF	>550 SF
15% OF OVERALL SITE	0.75 ACRES	>0.75 ACRES

PARKING CALCULATION:

WAREHOSUE:
REQ'D = 1 SPACE PER 1,000 G.S.F OR 1 SPACE PER EMPLOYEE

= (12,190 SF / 1,000 SF) * 1 SPACE = 13 SPACES REQ'D

OFFICE:
REQ'D = 1 SPACE PER 200 G.S.F

= (1,920 SF / 200 SF) * 1 SPACE = 10 SPACES REQ'D

TOTAL # OF PARKING SPACES = 13 SPACES + 10 SPACES = 23 PARKING SPACES REQ'D

GENERAL NOTES:

1. INSTALL ALL MATERIALS TO MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
2. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNER'S APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
3. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
4. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
6. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.
9. EXISTING CURB AND REMOVAL OF EXISTING ENTRANCE SHALL BE SAW CUT FULL-DEPTH AND NEATLY REMOVED FROM THE BACKSIDE. EXISTING PAVEMENT SHALL NOT BE DISTURBED AND THE PAVEMENT EDGE SHALL BE USED AS FORM FOR PLACING NEW CURB.

SITE NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS: SHALL HAVE 4" MIN. OF TOPSOIL AND SEED.
3. ALL DIMENSIONS FROM PROPERTY LINES SHALL BE MEASURED PERPENDICULAR TO THE PROPERTY LINE.
4. CENTER ENTRANCE SIDEWALKS ON DOOR OPENINGS.
5. BUILDING DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
8. EXISTING DRIVEWAY APRONS WITHIN THE MILLERSPORT HIGHWAY RIGHT-OF-WAY WILL BE REMOVED AND RESTORED/REPLANTED BETWEEN THE PAVED SHOULDER AND THE ROW LINE.

SITE LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED SIDEWALK / CONCRETE PAD
- NUMBER OF PARKING SPACES (27)
- PROPOSED SIGN
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED LIGHT POLE
- PROPOSED WALL MOUNTED LIGHT

DETAIL LEGEND SEE SITE DETAIL SHEET

1. TYPE 'A' CONCRETE CURB
2. STANDARD DUTY ASPHALT
3. 90° PARKING STALL
4. HANDICAPPED PAVEMENT MARKINGS
5. HANDICAPPED PARKING SIGN
6. PAINTED TRAFFIC ARROWS
7. LIGHT POLE FOUNDATION
8. DUMPSTER ENCLOSURE
9. PIPE BOLLARDS
10. EXTERIOR CONCRETE SLAB-ON-GRADE
11. 5' WIDE CONCRETE SIDEWALK

NOTE LEGEND

1. EDGE OF PAVEMENT
2. RUNOUT CURB IN 2' OR MATCH EXISTING CURB
3. SAWCUT LINE, MATCH EXISTING EDGE OF PAVEMENT
4. INSTALL "NO PARKING" SIGN, M.U.T.C.D. SIGN NO. P1-1C
5. LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
6. 4" WIDE WHITE PAVEMENT STRIPES @ 2' O.C. & @ 45° TO PARKING LINES

N

Site Plan

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 0 30 60Ft.
30'

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date
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2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK
CHRISTOPHER WOOD
076994
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Site Plan
Concept

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-100

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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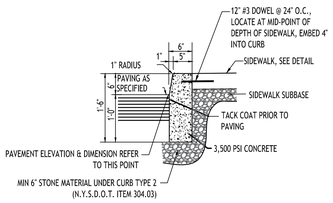
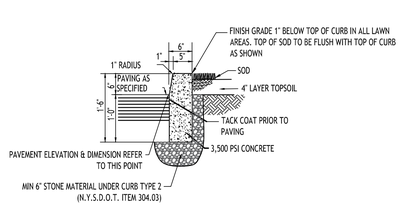


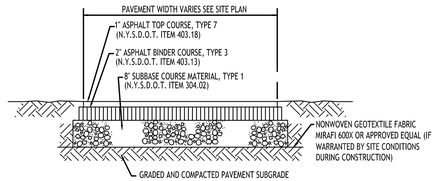
ABUTTING SIDEWALK



ABUTTING LANDSCAPE/GRASS

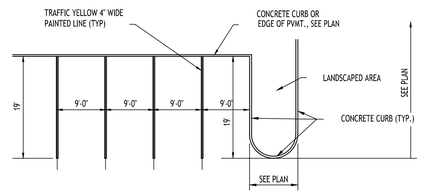
NOTES:
1. CONTROL JOINTS TO BE 2' DEEP AT 15'-0" O.C. - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. WHERE THE CURB DROPS (IS FLUSH WITH ASPHALT) THE DEPTH OF CURB BELOW GRADE SHALL BE INCREASED TO 1'-6" AND OTHER DIMENSIONS ADJUSTED ACCORDINGLY.

TYPE "A" CONCRETE CURB - 1

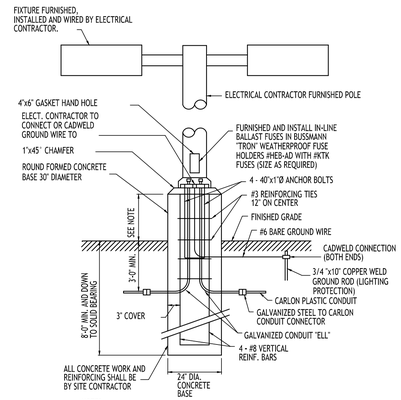


NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

STANDARD DUTY ASPHALT SECTION - 2

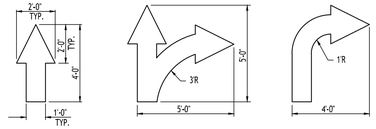


90° PARKING STALL LAYOUT - 3

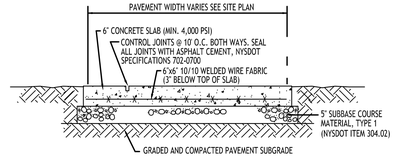


NOTES:
1. FOR LOCATIONS OF FOUNDATIONS SEE SITE PLAN
2. FOR LIGHT FIXTURE ORDERING INFORMATION SEE SITE LIGHTING PLAN
3. LIGHTING FIXTURES SHALL BE A MAXIMUM OF 25 FEET IN HEIGHT WITHIN PARKING AND SHALL BE A MAXIMUM OF 15 FEET WITHIN NON-VECHICULAR PEDESTRIAN AREAS
4. LIGHT POLE BASE EXPOSURE ABOVE GRADE SHALL BE:
   IN CURBED ISLANDS: 6" ABOVE TOP OF CURB ELEVATION
   IN PAVEMENT: 30" ABOVE GRADE
   IN NON-CURBED GRASS AREAS: 6" ABOVE GRADE

LIGHT POLE FOUNDATION - 7

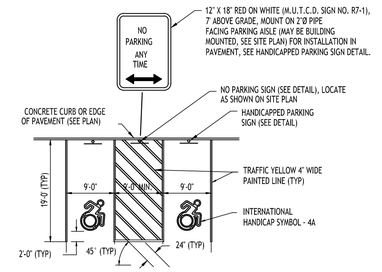


PAINTED TRAFFIC ARROWS - 6

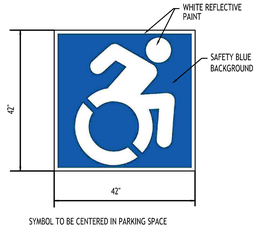


NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-3.

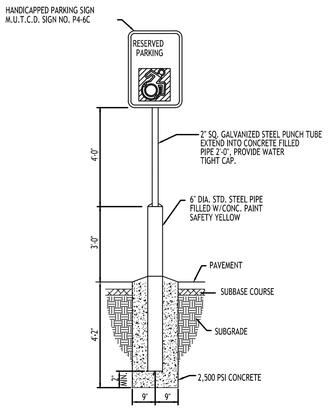
EXTERIOR CONCRETE SLAB-ON-GRADE SECTION - 10



HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 4

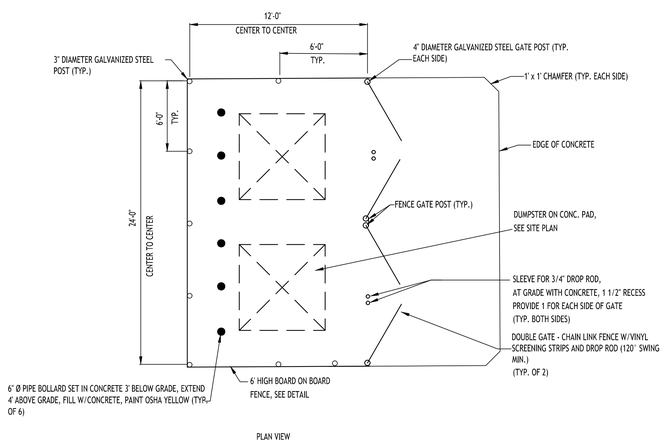


INTERNATIONAL HANDICAP SYMBOL - 4A

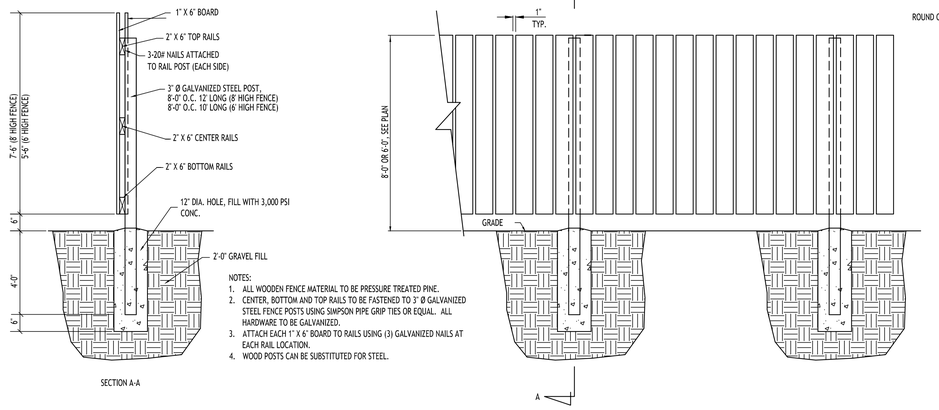


HANDICAPPED PARKING SIGN - 5

INSTALLED IN PAVEMENT

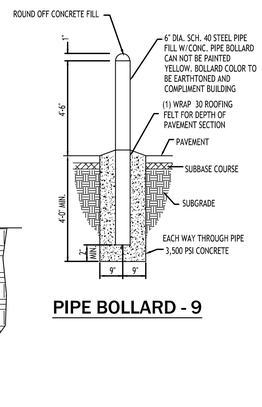


DUMPSTER ENCLOSURE - 8

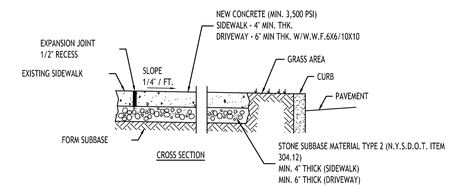


NOTES:
1. ALL WOODEN FENCE MATERIAL TO BE PRESSURE TREATED PINE.
2. CENTER, BOTTOM AND TOP RAILS TO BE FASTENED TO 3' Ø GALVANIZED STEEL FENCE POSTS USING SIMPSON PIPE GRIP TIES OR EQUAL. ALL HARDWARE TO BE GALVANIZED.
3. ATTACH EACH 1" X 6" BOARD TO RAILS USING (3) GALVANIZED NAILS AT EACH RAIL LOCATION.
4. WOOD POSTS CAN BE SUBSTITUTED FOR STEEL.

BOARD ON BOARD FENCE FENCE - FOR DUMPSTER ENCLOSURE



PIPE BOLLARD - 9



NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTH WAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3.
3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE, PROVIDE CONTINUOUS STONE PATH TO CURB UNDERDRAIN WHERE PROVIDED.
4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB.
6. INSTALL 6' LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN ENTRANCE, THICKEN SIDEWALK TO 6" AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6" DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE.
7. INSTALL 1/2" PREMOLDED EXPANSION JOINT WITH BACKER ROD & SEALANT WHERE SIDEWALK ABUTS BUILDING OR OTHER STRUCTURE.

CONCRETE SIDEWALK - 11

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS: No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK · CHRISTOPHER WOOD · 076994 · LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Site Details

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-101

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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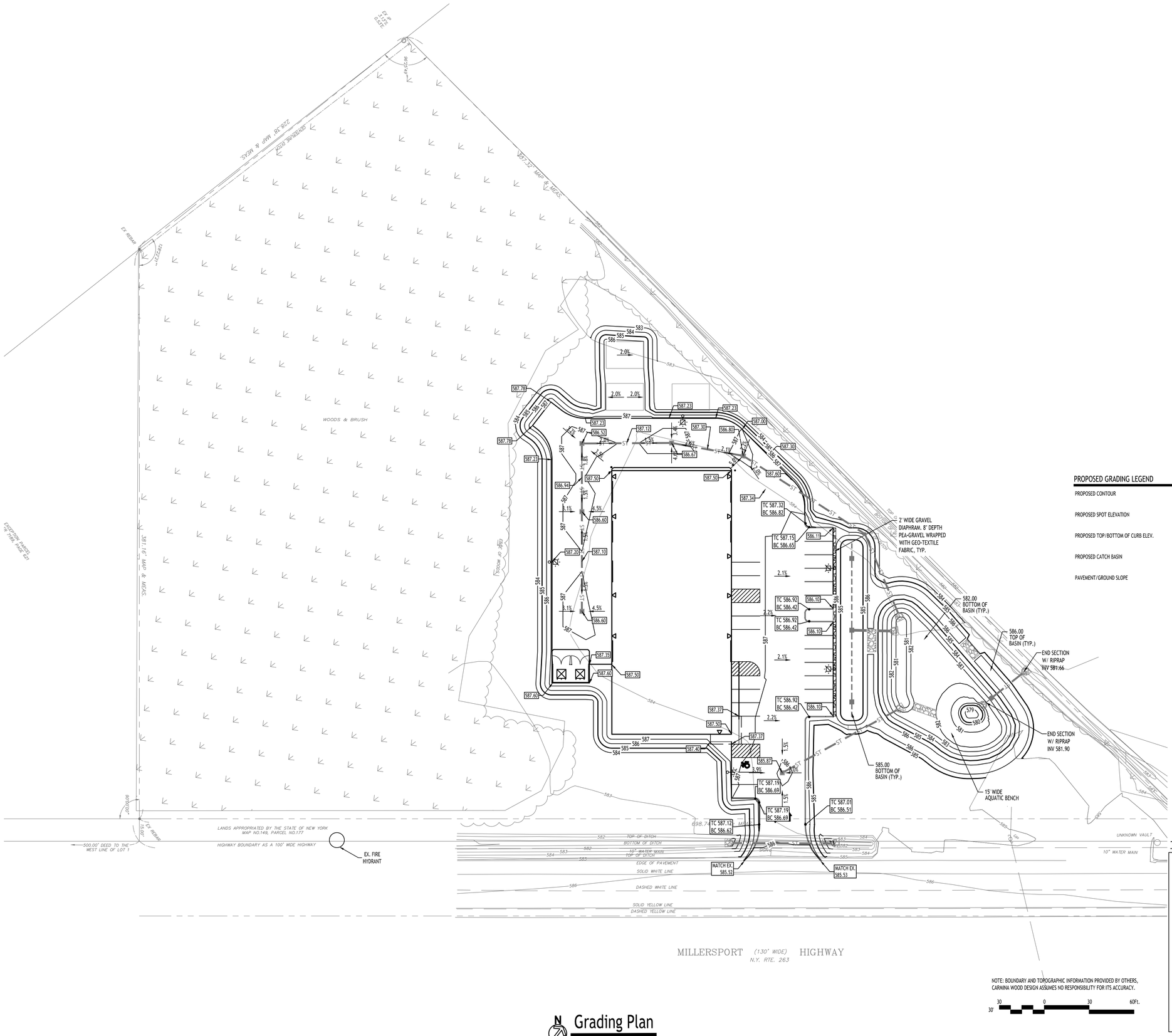

PROPOSED GRADING LEGEND

- PROPOSED CONTOUR — 101
- PROPOSED SPOT ELEVATION — 100.80
- PROPOSED TOP/BOTTOM OF CURB ELEV. — TC 100.50 / BC 100.00
- PROPOSED CATCH BASIN — CB
- PAVEMENT/GROUND SLOPE

TOWN OF AMHERST APPROVAL BOX:

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

N

Grading Plan

SCALE: 1"=30'

1.d

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK
CHRISTOPHER R. WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Grading Plan

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-200

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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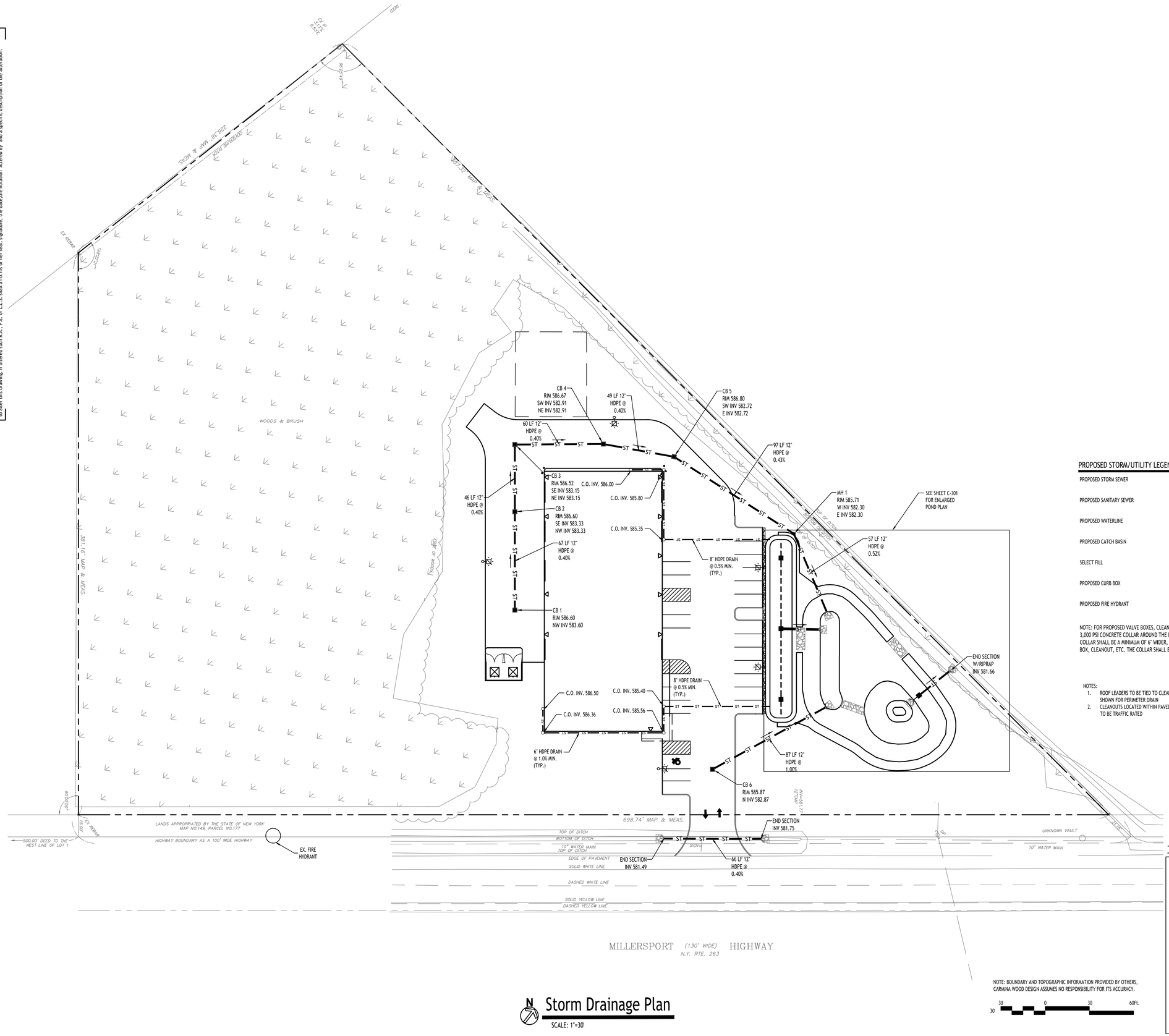

PROPOSED STORM/UTILITY LEGEND

PROPOSED STORM SEWER	— ST —
PROPOSED SANITARY SEWER	— 6" SA —
PROPOSED WATERLINE	— 1" W —
PROPOSED CATCH BASIN	■ CB
SELECT FILL	▨
PROPOSED CURB BOX	⊕
PROPOSED FIRE HYDRANT	

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

NOTES:
1. ROOF LEADERS TO BE TIED TO CLEANOUTS SHOWN FOR PERIMETER DRAIN
2. CLEANOUTS LOCATED WITHIN PAVED AREAS TO BE TRAFFIC RATED

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

N

Storm Drainage Plan

SCALE: 1"=30'

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:		
No.	Description	Date
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2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK
CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076394

DRAWING NAME:
Storm Drainage Plan

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-300

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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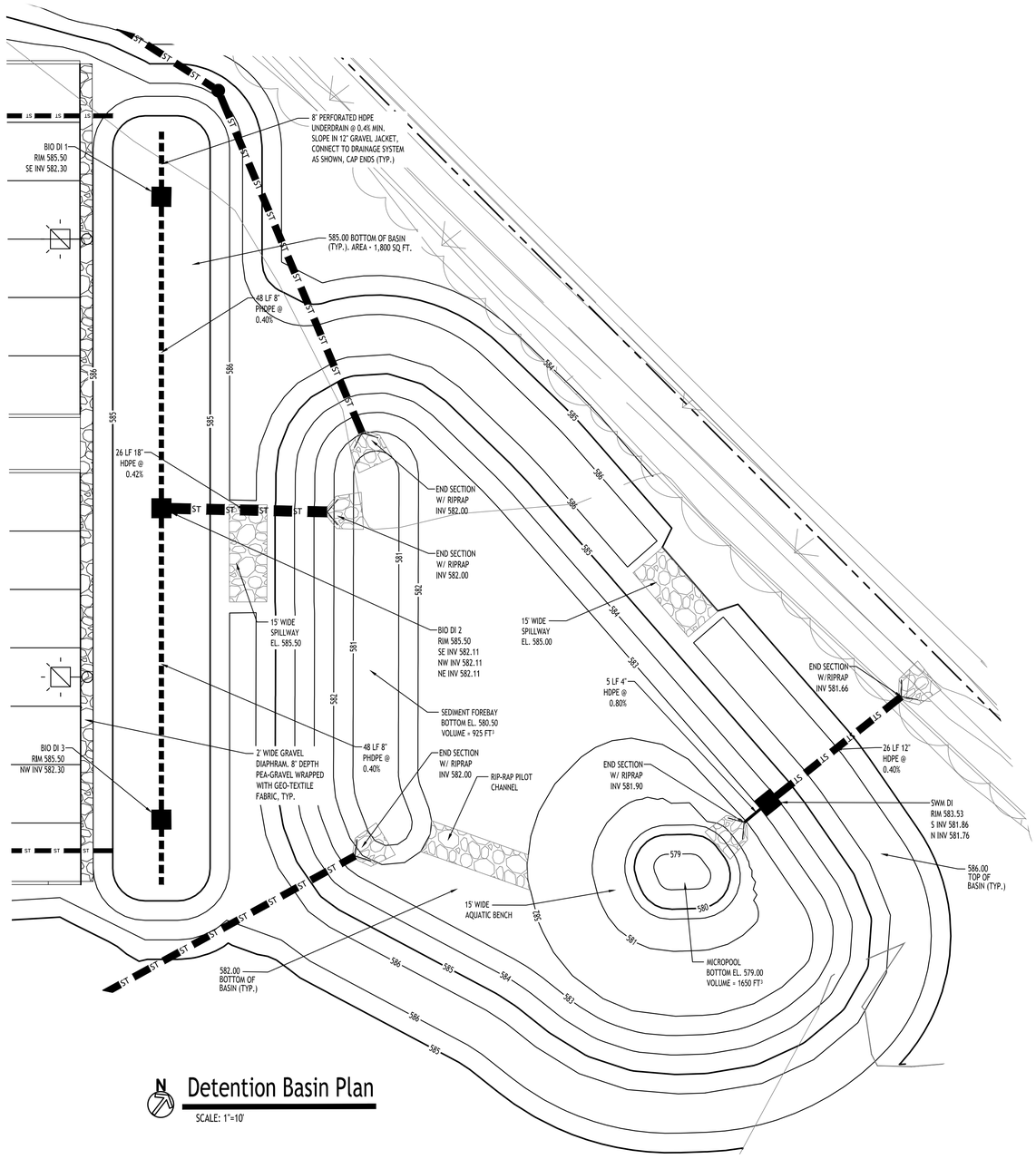

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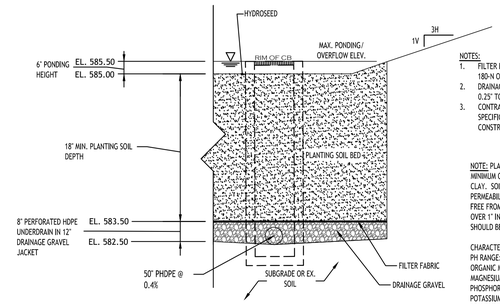
Detention Basin Plan

SCALE: 1"=10'



BIORETENTION #1 AREA - TYPICAL SECTION

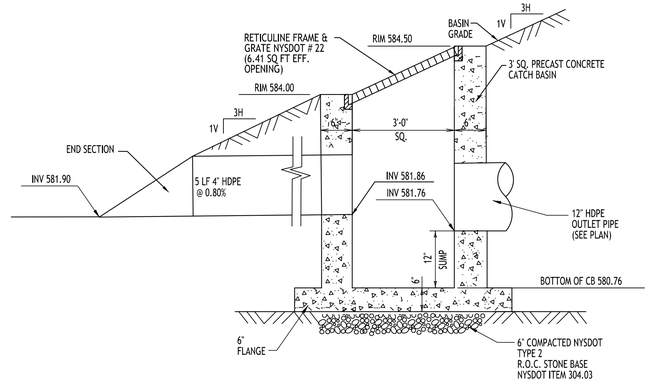
NOTES:
1. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180-N OR APPROVED EQUIVALENT
2. DRAINAGE GRAVEL TO MEET AASHTO M-43. NO.67, SIZE 0.25" TO 0.75"
3. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

NOTE: PLANTING SOIL SHALL BE LOAM/SAND MIX CONTAINING A MINIMUM OF 35 TO 60% SAND BY VOLUME AND LESS THAN 25% CLAY. SOIL SHOULD FALL WITHIN USCS TYPES SM OR ML WITH PERMEABILITY OF AT LEAST 1.0 FEET PER DAY. SOIL SHOULD BE FREE FROM STONES, STUMPS, ROOTS OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED.

CHARACTERISTICS SHALL BE:
PH RANGE: 5.2 - 7.00
ORGANIC MATTER: 1.5 - 4.0%
MAGNESIUM: 35 LBS PER ACRE MIN.
PHOSPHORUS: 75 LBS PER ACRE MIN.
POTASSIUM: 85 LBS PER ACRE MIN.
SOLUBLE SALTS: 500 PPM
CLAY: 10 TO 25%
SILT: 30 TO 55%
SAND: 35 TO 60%

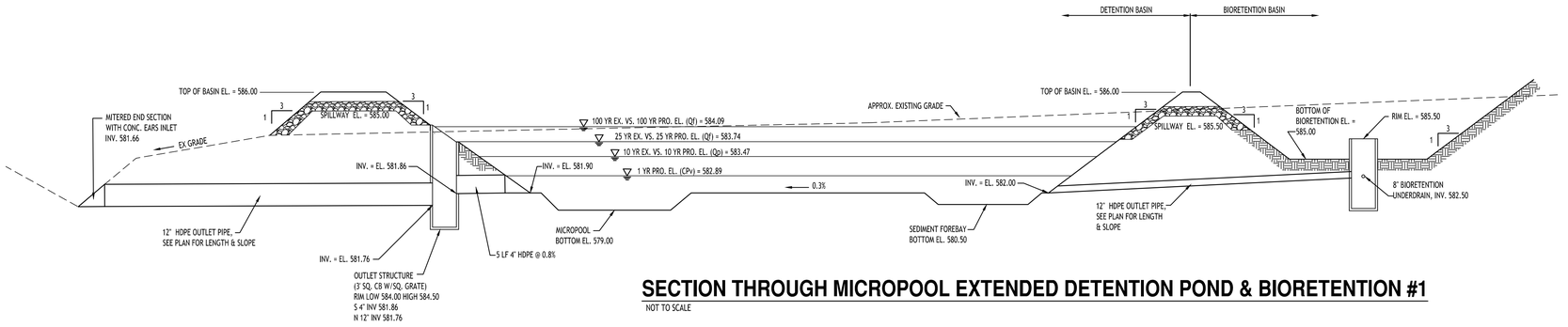
BIO-RETENTION AREA SEEDING SPEC (Northeast Wetland Grass Seed Mix):

Seed Mixture	Variety	Percent by No. of Seeds
Creeping Bentgrass	Agrostis stolonifera	63.0
Rough Bluegrass	Poa trivialis	17.0
Meadow Foxtail	Alopecurus arundinaceus	11.0
Annual Ryegrass	Lolium multiflorum	4.5
Deertongue	Panicum clandestinum	4.5



MICROPOOL EXTENDED DETENTION POND OUTLET STRUCTURE - SWM 1 DI

N.T.S.



SECTION THROUGH MICROPOOL EXTENDED DETENTION POND & BIORETENTION #1

NOT TO SCALE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS: No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK * CHRISTOPHER R. WOOD * LICENSED PROFESSIONAL ENGINEER 076394

DRAWING NAME:
Basin Details

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-301

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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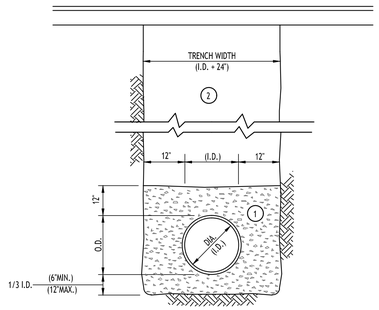


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

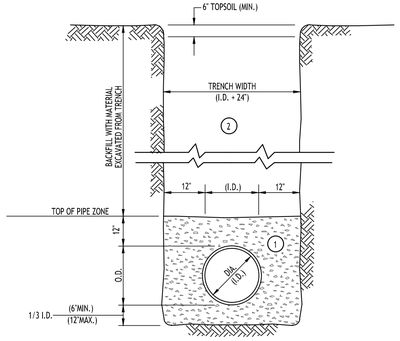
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

STORM SEWER TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

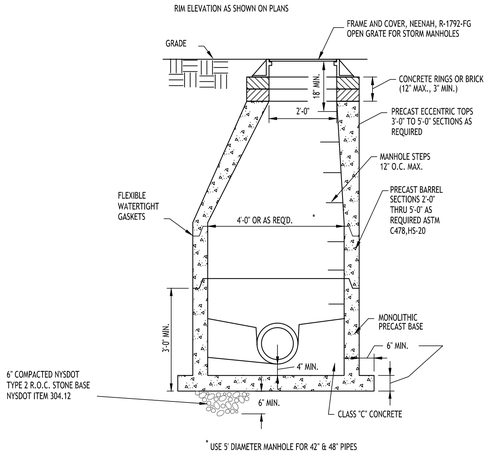
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

STORM SEWER TRENCH SECTION IN UNPAVED AREAS

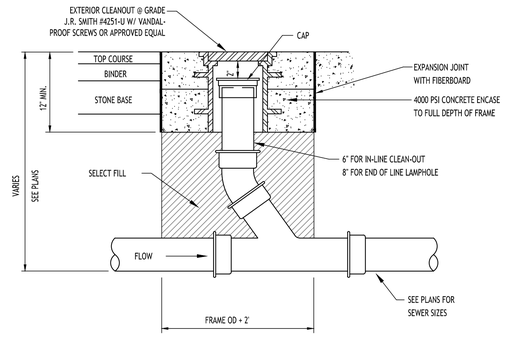
NOT TO SCALE



* USE 5' DIAMETER MANHOLE FOR 42" & 48" PIPES

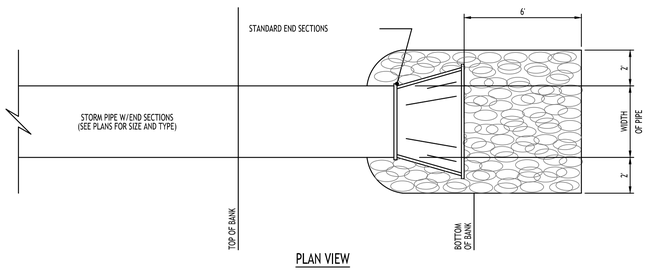
TYPICAL STORM MANHOLE DETAIL

NOT TO SCALE

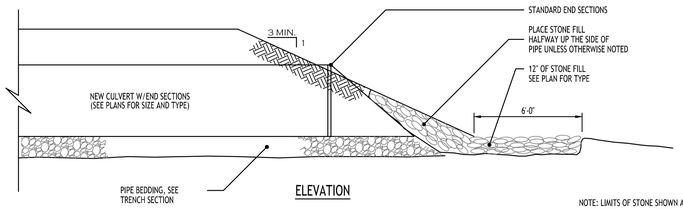


LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

NOT TO SCALE



PLAN VIEW

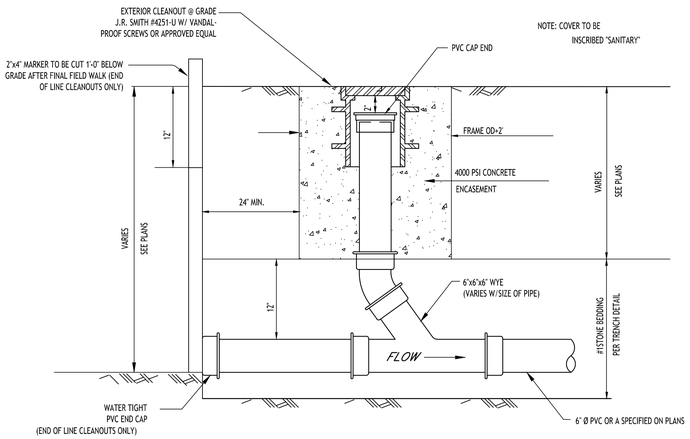


ELEVATION

NOTE: LIMITS OF STONE SHOWN ARE MINIMUMS, PLAN MAY INDICATE GREATER LIMITS

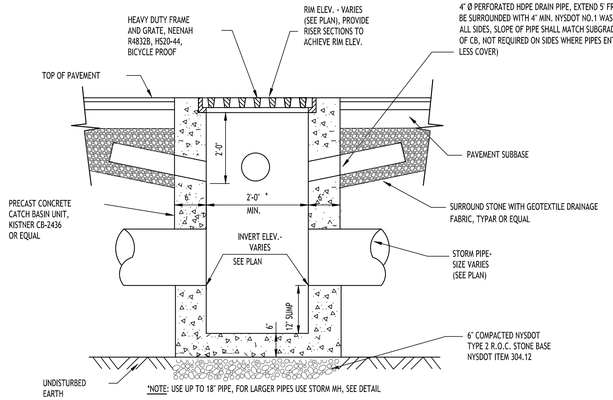
TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE



TYPICAL PRECAST CATCH BASIN

NOT TO SCALE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS: No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK
CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076994

DRAWING NAME:

Storm Drainage Details

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.

C-302

Project No: 24.4019

Attachment: SP-2024-10 drawings (82125 : (29733 : SP-2024-10, 5500 Millersport Highway)

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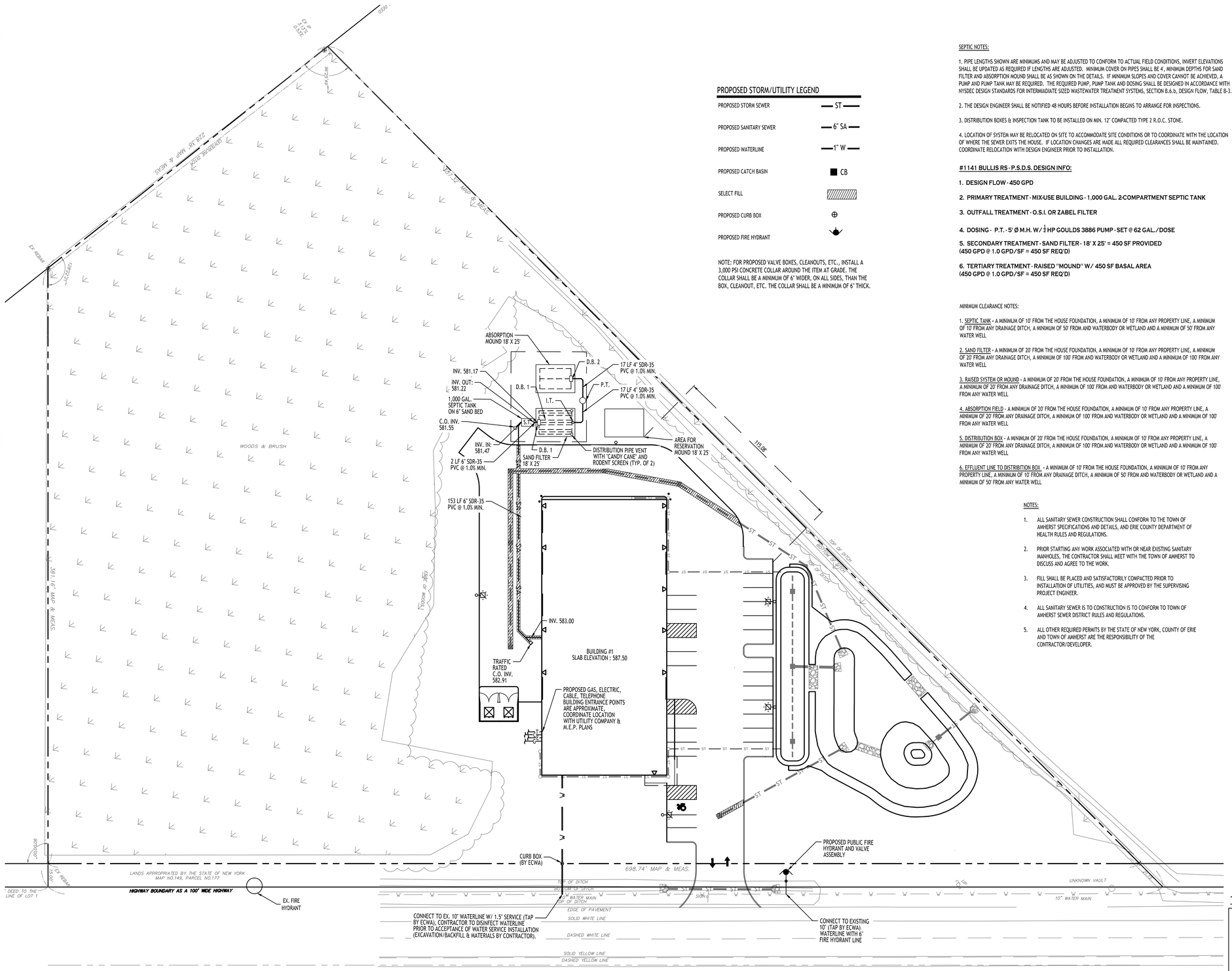

N Utility Plan
SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

SEPTIC NOTES:

1. PIPE LENGTHS SHOWN ARE MINIMUMS AND MAY BE ADJUSTED TO CONFORM TO ACTUAL FIELD CONDITIONS, INVERT ELEVATIONS SHALL BE UPDATED AS REQUIRED IF LENGTHS ARE ADJUSTED. MINIMUM COVER ON PIPES SHALL BE 4', MINIMUM DEPTHS FOR SAND FILTER AND ABSORPTION MOUND SHALL BE AS SHOWN ON THE DETAILS. IF MINIMUM SLOPES AND COVER CANNOT BE ACHIEVED, A PUMP AND PUMP TANK MAY BE REQUIRED. THE REQUIRED PUMP, PUMP TANK AND DOSING SHALL BE DESIGNED IN ACCORDANCE WITH NYSDEC DESIGN STANDARDS FOR INTERMIADIATE SIZED WASTEWATER TREATMENT SYSTEMS, SECTION B.6.b, DESIGN FLOW, TABLE B-3.

2. THE DESIGN ENGINEER SHALL BE NOTIFIED 48 HOURS BEFORE INSTALLATION BEGINS TO ARRANGE FOR INSPECTIONS.

3. DISTRIBUTION BOXES & INSPECTION TANK TO BE INSTALLED ON MIN. 12" COMPACTED TYPE 2 R.O.C. STONE.

4. LOCATION OF SYSTEM MAY BE RELOCATED ON SITE TO ACCOMMODATE SITE CONDITIONS OR TO COORDINATE WITH THE LOCATION OF WHERE THE SEWER EXITS THE HOUSE. IF LOCATION CHANGES ARE MADE ALL REQUIRED CLEARANCES SHALL BE MAINTAINED. COORDINATE RELOCATION WITH DESIGN ENGINEER PRIOR TO INSTALLATION.

#1141 BULLIS RS - P.S.D.S. DESIGN INFO:

1. DESIGN FLOW - 450 GPD

2. PRIMARY TREATMENT - MIX-USE BUILDING - 1,000 GAL. 2-COMPARTMENT SEPTIC TANK

3. OUTFALL TREATMENT - O.S.I. OR ZABEL FILTER

4. DOSING - P.T. - 5' Ø M.H. W/ ½ HP GOULDS 3886 PUMP - SET @ 62 GAL./DOSE

5. SECONDARY TREATMENT - SAND FILTER - 18' X 25' = 450 SF PROVIDED (450 GPD @ 1.0 GPD/SF = 450 SF REQ'D)

6. TERTIARY TREATMENT - RAISED "MOUND" W/ 450 SF BASAL AREA (450 GPD @ 1.0 GPD/SF = 450 SF REQ'D)

MINIMUM CLEARANCE NOTES:

1. SEPTIC TANK - A MINIMUM OF 10' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 10' FROM ANY DRAINAGE DITCH, A MINIMUM OF 50' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 50' FROM ANY WATER WELL

2. SAND FILTER - A MINIMUM OF 20' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 20' FROM ANY DRAINAGE DITCH, A MINIMUM OF 100' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 100' FROM ANY WATER WELL

3. RAISED SYSTEM OR MOUND - A MINIMUM OF 20' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 20' FROM ANY DRAINAGE DITCH, A MINIMUM OF 100' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 100' FROM ANY WATER WELL

4. ABSORPTION FIELD - A MINIMUM OF 20' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 20' FROM ANY DRAINAGE DITCH, A MINIMUM OF 100' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 100' FROM ANY WATER WELL

5. DISTRIBUTION BOX - A MINIMUM OF 20' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 20' FROM ANY DRAINAGE DITCH, A MINIMUM OF 100' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 100' FROM ANY WATER WELL

6. EFFLUENT LINE TO DISTRIBITION BOX - A MINIMUM OF 10' FROM THE HOUSE FOUNDATION, A MINIMUM OF 10' FROM ANY PROPERTY LINE, A MINIMUM OF 10' FROM ANY DRAINAGE DITCH, A MINIMUM OF 50' FROM AND WATERBODY OR WETLAND AND A MINIMUM OF 50' FROM ANY WATER WELL

NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE TOWN OF AMHERST SPECIFICATIONS AND DETAILS, AND ERIE COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS.
2. PRIOR STARTING ANY WORK ASSOCIATED WITH OR NEAR EXISTING SANITARY MANHOLES, THE CONTRACTOR SHALL MEET WITH THE TOWN OF AMHERST TO DISCUSS AND AGREE TO THE WORK.
3. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO INSTALLATION OF UTILITIES, AND MUST BE APPROVED BY THE SUPERVISING PROJECT ENGINEER.
4. ALL SANITARY SEWER IS TO CONSTRUCTION IS TO CONFORM TO TOWN OF AMHERST SEWER DISTRICT RULES AND REGULATIONS.
5. ALL OTHER REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER.

SEPTIC SYSTEM DESIGN ELEVATIONS
MIX-USE BUILDING SLAB ELEVATION = 587.50
SEWER INVERT @ MIX USE BUILDING = 583.00 (4.5' OF COVER) *

S.T. INVERT IN = 581.47
S.T. INVERT OUT = 581.22
D.B. 1 INVERT IN = 581.17
D.B. 1 INVERT OUT = 581.07
I.T. INVERT IN/OUT = 578.10
P.T. INVERT IN = 577.93
P.T. INVERT OUT = 580.00
D.B. 2 INVERT IN = 585.16
D.B. 2 INVERT OUT = 585.06

SEPTIC SYSTEM LEGEND:

S.T. = SEPTIC TANK
P.T. = PUMP TANK
D.B. = DISTRIBUTION BOX
I.T. = INSPECTION TANK

UTILITY NOTES:

1. FOR ALL SANITARY SEWERS, INSTALL SELECT FILL IN PAVED AREAS, EXTEND 5' MIN. BEYOND PAVEMENT LIMITS
2. BUILDINGS TO HAVE INVERT ELEVATION 5' MIN. BELOW F.F.E. OF THE BUILDING. PIPE TO BE 6" SDR-35 PVC @ 1.0% MIN. WITH MIN 4.5' OF COVER.
3. COORDINATE GAS & ELEC. METER BANK LOCATIONS ON BUILDINGS WITH M.E.P. PLANS & UTILITY CO.'S.
4. COORDINATE LOCATION OF CTV & TELEPHONE SERVICE TO BUILDINGS WITH M.E.P. PLANS AND UTILITY CO.'S.
5. ANY EXISTING UTILITIES WHICH ARE TO BE ABANDONED AND FALL UNDER PAVEMENT OR BUILDINGS SHALL BE REMOVED VS. BEING ABANDONED UNLESS THOSE UTILITIES ARE FILLED WITH FLOWABLE FILL.
6. A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
7. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH CONCRETE AND ASPHALT PAVEMENT AREAS.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building
5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date
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STATE OF NEW YORK
CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076994

DRAWING NAME:
Utility Plan

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-400

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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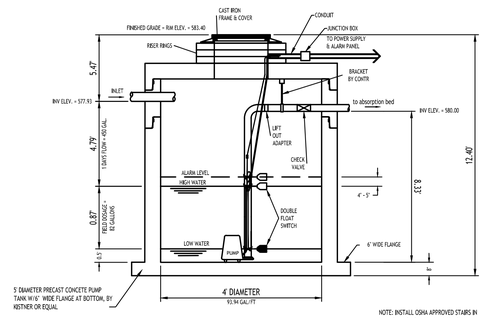
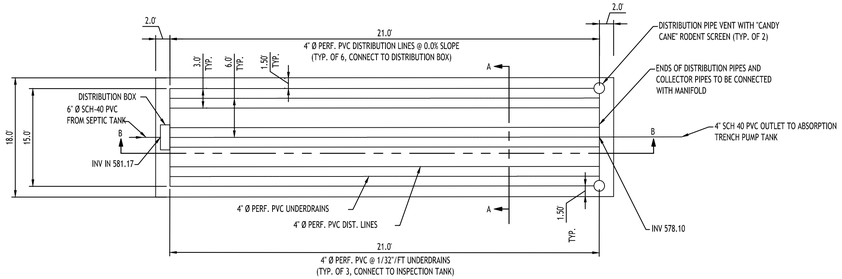


PUMP TANK



SAND FILTER PLAN

NOT TO SCALE

SAND FILTER NOTES:

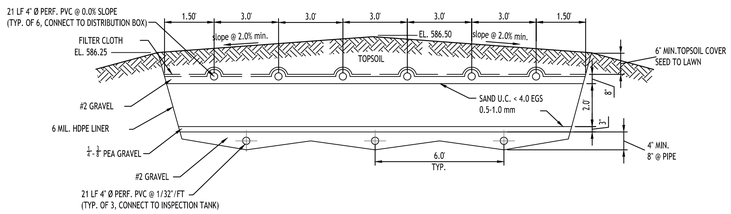
1. ALL SAND SHALL BE UNIFORM COARSE TO MEDIUM SAND (< 4% PASSINF #200 SIEVE), ALL PASSING 1/4 INCH SIEVE, HAVE A EFFECTIVE GRAIN SIZE (EGS) BETWEEN 0.25 - 1.00 mm, AN UNIFORMITY COEFFICIENT (UC) <= 4

2. IF A HDPE LINER IS USED, SEAL PENETRATIONS AND SEAMS WATER TIGHT

3. TOP OF SAND FILTER SHALL BE SLOPED TO DRAIN, AREAS AROUND THE FILTER SHALL BE GRADED TO DIVERT WATER AWAY

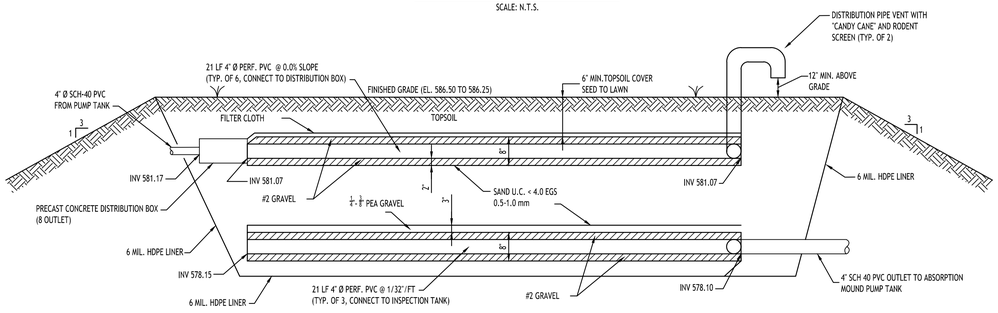
4. ALL HEAVY EQUIPMENT SHALL BE KEPT OFF THE SAND FILTER AREA FOLLOWING CONSTRUCTION.

5. depending on depth of high water mark or bedrock or the existing topography, the entire filter may be adjusted up or down. all required clearances and minimum slopes must be maintained. if adjustments are made to the filter, the engineer shall be notified prior to start of installation.



SAND FILTER CROSS SECTION A-A

SCALE: N.T.S.



SAND FILTER SECTION B-B

SCALE: N.T.S.

MOUND NOTES:

1. TOP OF MOUND SHALL BE SLOPED TO DRAIN, AREAS AROUND THE BASE OF THE MOUND SHALL BE GRADED TO DIVERT WATER AWAY FROM THE MOUND.

2. SLOPE UNDER MOUND SHALL FOLLOW SLOPE OF EXISTING GRADE, EITHER SIDE TO SIDE OR LONGITUDINAL TO FACILITATE DRAINAGE (SHOWN AS SIDE TO SIDE FOR ILLUSTRATION PURPOSES).

3. ALL HEAVY EQUIPMENT SHALL BE KEPT OFF THE MOUND AREA FOLLOWING CONSTRUCTION. IN ADDITION, NO EQUIPMENT SHALL BE ALLOWED IN THE MOUND AREA FOLLOWING PLOWING OF THE EXISTING SOIL.

4. MOUND SHALL BE ELEVATED AS REQUIRED TO PROVIDE A MINIMUM OF 2' OF NATURAL SOIL ABOVE BEDROCK AND A MINIMUM OF 1' ABOVE THE HIGH GROUND WATER ELEVATION.

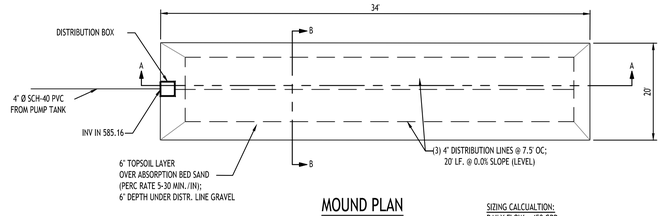
5. THE SLOPE OF THE ORIGINAL GROUND SURFACE IN THE LOCATION OF THE MOUND SHALL NOT EXCEED 12%. THE SYSTEM SHALL BE ORIENTED TO RUN PARALLEL WITH THE NATURAL SITE CONTOURS.

6. THE ABSORPTION BED SAND SHALL MEET THE FOLLOWING CRITERIA:
   A. < 10% PASSING #200 SIEVE
   B. => 25% PASSING #35 SIEVE TO #10 SIEVE
   C. < 15% PASSING 1/2 SIEVE
   D. PERCOLATION RATE OF BETWEEN 5 - 30 MIN/INCH
   E. E.G.S. BETWEEN 0.15 - 0.30 MM
   F. U.C. BETWEEN 4 - 6
   G. TEST RESULTS TO BE SUBMITTED TO ENGINEER FOR APPROVAL

   NOTE: ASTM C33 WASHED CONCRETE SAND WILL TYPICALLY MEET THE ABOVE SUGGESTED MOUND SAND CRITERIA AND WILL TYPICALLY BE AVAILABLE AT MOST SAND AND GRAVEL DISTRIBUTORS; HOWEVER, THIS MATERIAL WILL OFTEN HAVE A PERC RATE FASTER THAN THE MINIMUM OF 5 MINUTES PER INCH. THE PERCOLATION RATE SHALL BE VERIFIED AND TAKE PRECEDENCE TO THE FILL GRADATION REQUIREMENTS WHEN A MOUND IS PLACED OVER VERY SLOW PERCOLATING SOIL TO AVOID RAPID WEEPING OF FLUIDS AT THE GROUND SURFACE.

7. THE NATURAL VEGETATION SHALL NOT BE SCRAPED AWAY WITH THE EXCEPTION OF TREES, STUMPS AND EXCESSIVE VEGETATION. THE PROPOSED MOUND AREA SHALL BE PLOWED TO A DEPTH OF 7' - 8' PREFERABLY WITH A DOUBLE-BOTTOM BLADE/FURROW PLOW WITH TURNED UPSLOPE OR A BACKHOE EQUIPPED WITH PLOWING BLADES. ALL TRAFFIC SHALL BE EXCLUDED FROM THE MOUND AREA FOLLOWING PLOWING.

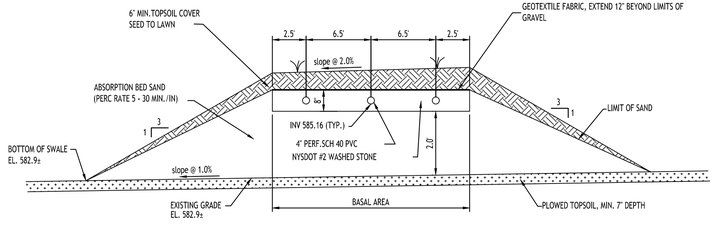
8. DEPENDING ON DEPTH OF HIGH WATER MARK OR BEDROCK, THE ENTIRE MOUND MAY BE ADJUSTED UP OR DOWN. ALL REQUIRED CLEARANCES AND MINIMUM SLOPES MUST BE MAINTAINED. IF ADJUSTMENTS ARE MADE TO THE MOUND, THE ENGINEER SHALL BE NOTIFIED PRIOR TO START OF INSTALLATION.



MOUND PLAN

SCALE: NTS

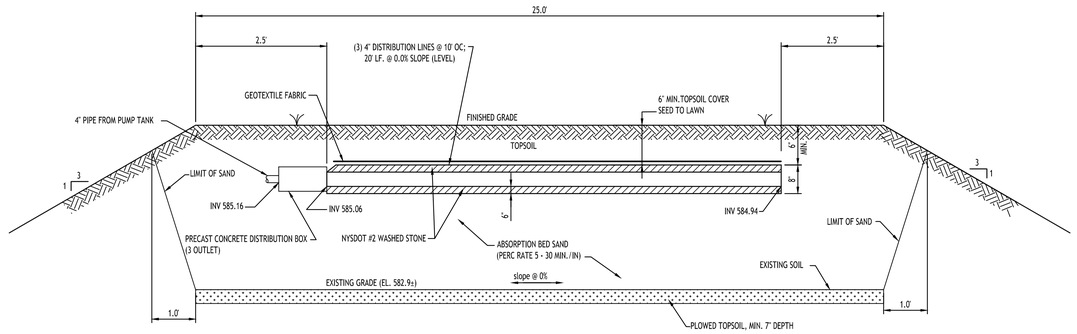
SIZING CALCULATION:
DAILY FLOW = 450 GPD
PERC RATE OF EX. UNDERLYING SOIL : > 60 MIN.
APPLICATION RATE BASED ON PERC. RATE = 1 GPD/SF
BASAL AREA REQ'D = 450 GPD / 1 GPD/SF = 450 SF
BASAL AREA PROVIDED = 450 SF



The absorption bed sand shall meet the following criteria:
1. < 10% passing #200 sieve
2. => 25% between 0.5 mm to 2.0 mm
3. Percolation rate of between 5 - 30 min/inch

MOUND SECTION B-B

SCALE: N.T.S.



MOUND SECTION A-A

SCALE: N.T.S.

TOWN OF AMHERST APPROVAL BOX:

1.d

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS: No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK * CHRISTOPHER R WOOD * LICENSED PROFESSIONAL ENGINEER 076394

DRAWING NAME:
Utility Details

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-401

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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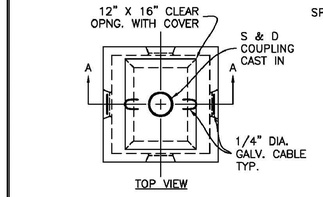
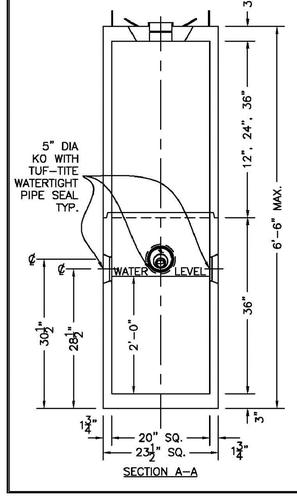
KISTNER CONCRETE PRODUCTS INC. 8713 READ ROAD E. PEMBROKE, N.Y. 14056 (716) 894-2267	PRODUCT DESIGNATION	DWG. NO.
PRECAST	2'-0" X 2'-0" UTILITY TANK	ST-ST22UT © 3-14-07





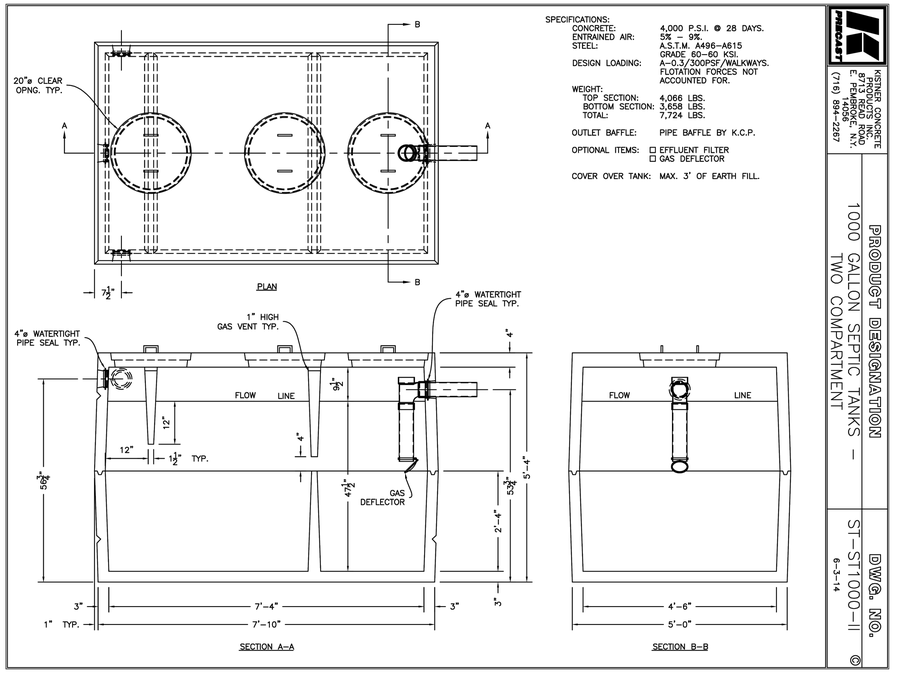
SPECIFICATIONS:
CONCRETE: 4,000 P.S.I. @ 28 DAYS.
ENTRAINED AIR: 5% – 9%.
STEEL: A.S.T.M. A496–A615 GRADE 60–60 KSI.
DESIGN LOADING: A–0.3/300PSF/WALKWAYS. FLOTATION FORCES NOT ACCOUNTED FOR.

WEIGHTS:
2' X 2' UTILITY PLUG COVER: 70 LBS.
TOP SECTION: 1' – 300 LBS.
2' – 455 LBS.
3' – 612 LBS.
BOTTOM SECTION: 3' – 612 LBS.

WATER CAPACITY:
2' WATER = 5.58 CU. FT. = 43 GAL.
3' WATER = 8.35 CU. FT. = 64 GAL.
4' WATER = 11.16 CU. FT. = 75 GAL.
5' WATER = 13.95 CU. FT. = 86 GAL.
6' WATER = 16.67 CU. FT. = 107 GAL.
GPF – 21.5 GAL.

NOTE: TOP SECTIONS MAY BE STACKED FOR ADDITIONAL HEIGHT.

O:\Drawings\Product Workbooks\001e-Utility tanks\ST22UT.DWG, TB-JOB



SPECIFICATIONS:
CONCRETE: 4,000 P.S.I. @ 28 DAYS.
ENTRAINED AIR: 5% – 9%
STEEL: A.S.T.M. A496–A615 GRADE 60–60 KSI.
DESIGN LOADING: A–0.3/300PSF/WALKWAYS. FLOTATION FORCES NOT ACCOUNTED FOR.

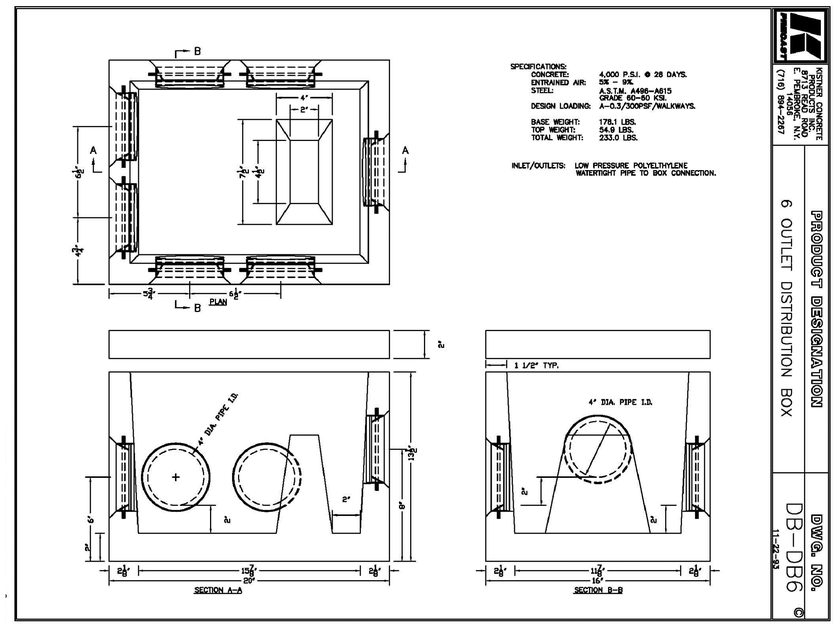
WEIGHT:
TOP SECTION: 4,066 LBS.
BOTTOM SECTION: 3,658 LBS.
TOTAL: 7,724 LBS.

OUTLET BAFFLE: PIPE BAFFLE BY K.C.P.

OPTIONAL ITEMS: ☐ EFFLUENT FILTER ☐ GAS DEFLECTOR

COVER OVER TANK: MAX. 3' OF EARTH FILL.

KISTNER CONCRETE PRODUCTS INC. 8713 READ ROAD E. PEMBROKE, N.Y. (716) 894-2267	PRODUCT DESIGNATION	DWG. NO.
PRECAST	1000 GALLON SEPTIC TANKS – TWO COMPARTMENT	ST-ST1000-II © 6-3-14



SPECIFICATIONS:
CONCRETE: 4,000 P.S.I. @ 28 DAYS.
ENTRAINED AIR: 5% – 9%
STEEL: A.S.T.M. A496–A615 GRADE 60–60 KSI.
DESIGN LOADING: A–0.3/300PSF/WALKWAYS.

BASE WEIGHT: 178.1 LBS.
TOP WEIGHT: 54.9 LBS.
TOTAL WEIGHT: 233.0 LBS.

INLET/OUTLETS: LOW PRESSURE POLYETHYLENE WATERTIGHT PIPE TO BOX CONNECTION.

KISTNER CONCRETE PRODUCTS INC. 8713 READ ROAD E. PEMBROKE, N.Y. (716) 894-2267	PRODUCT DESIGNATION	DWG. NO.
PRECAST	6 OUTLET DISTRIBUTION BOX	DB-DB6 © 11-22-23

TOWN OF AMHERST APPROVAL BOX:

1.d

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Buffalo | Utica | Greensboro

Proposed Warehouse Building
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Amherst, New York

REVISIONS:		
No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK * CHRISTOPHER WOOD * 076994 LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Utility Details

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-402

Project No: 24.4019

Packet Pg. 738

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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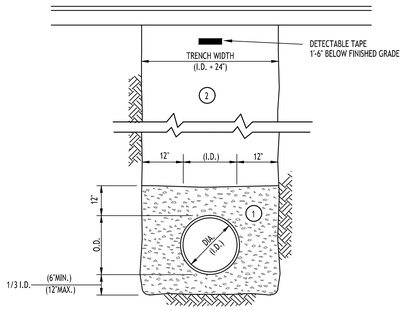


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

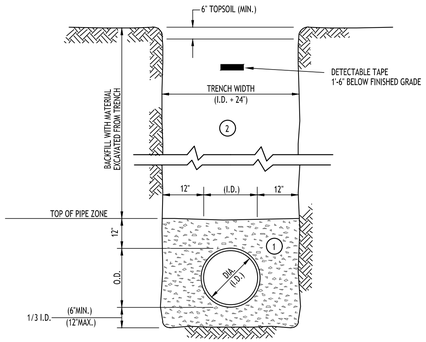
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

SEWER/WATERLINE TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

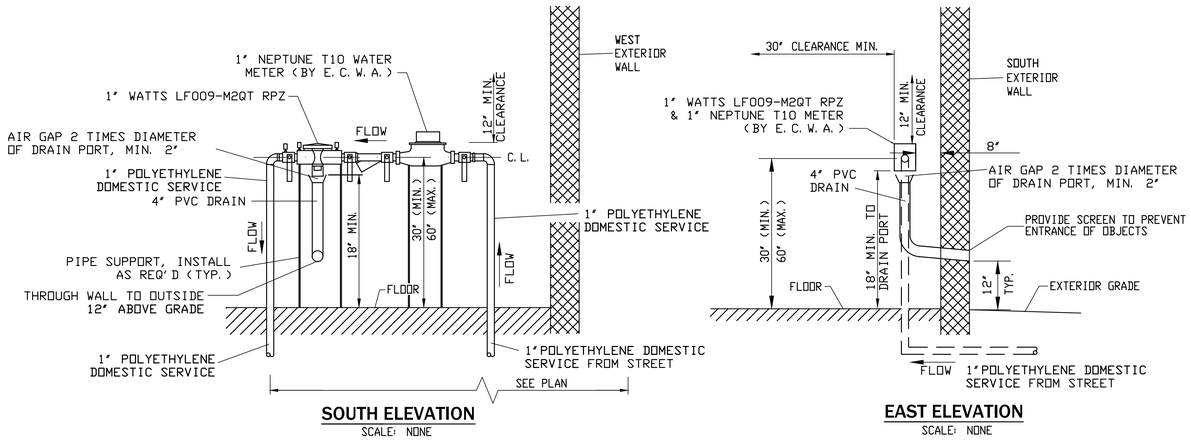
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

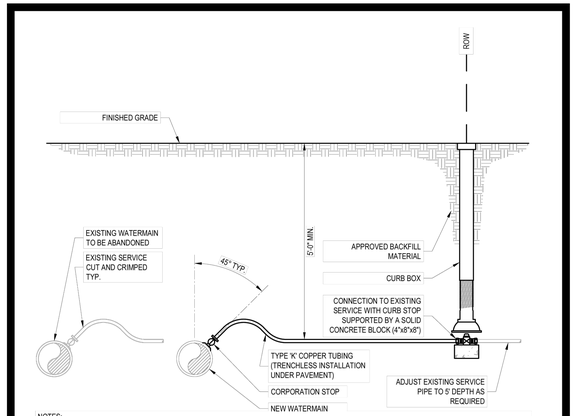
SEWER/WATERLINE TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



1.5" DOMESTIC SERVICE BACKFLOW PREVENTER INSTALLATION

NOTES:
1. NO TAPS TO BE MADE UPSTREAM OF RPZ & METER.
2. HEAT, LIGHT AND ELECTRIC TO BE PROVIDED AT RPZ LOCATION.
3. COORDINATE LOCATION WITH ARCHITECTURAL PLANS.



NOTES:

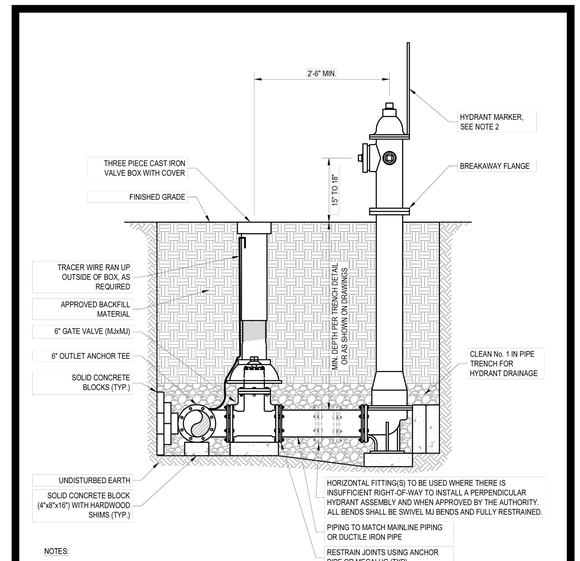
1. EXISTING SERVICES SHALL BE CRIMPED AND ABANDONED IN PLACE.
2. SERVICE SADDLES SHALL BE USED UNDER THE FOLLOWING CONDITIONS:
   A. WHEN SERVICES ARE PLACED ON 4" OR SMALLER PIPES.
   B. WHEN SERVICES LARGER THAN 1" ARE PLACED ON A 6" PIPE.
   C. WHEN SERVICES LARGER THAN 1.5" ARE PLACED ON AN 8" PIPE.
   D. WHEN SERVICES LARGER THAN 1.5" ARE PLACED ON DUCTILE IRON PIPE.
   E. WHEN TAPPING ALL NON-METALLIC PIPE (ACP, PVC, OR HDPE)
3. CURB BOXES SHALL NOT BE PLACED IN SIDEWALKS, DRIVEWAYS, OR CURB RAMPS.
4. USE POLYETHYLENE TUBING FOR 1" AND 1" SERVICES GREATER THAN 100' IN LENGTH AND FOR 1.5" AND 2" SERVICES GREATER THAN 60' IN LENGTH. ALL POLYETHYLENE SERVICES SHALL INCLUDE A TRACER WIRE FOR DETECTION BY ECWA FORCES.
5. UNIONS ON COPPER TUBING ARE NOT ALLOWED UNLESS APPROVED BY ECWA PRIOR TO INSTALLATION.

SERVICE REPLACEMENT / INSTALLATION

SCALE: NTS

Revision: 2024-01

Detail: SD-20



NOTES:

1. HYDRANT RISER SHALL BE INSTALLED PLUMB.
2. FOR WATERMAIN REPLACEMENT PROJECTS, RELOCATE EXISTING MARKERS TO NEW HYDRANTS. MUNICIPALITY SHALL BE RESPONSIBLE TO PROVIDE ANY NEW HYDRANT MARKERS AS NEEDED. CONTRACTOR TO COORDINATE WITH ALL MUNICIPALITIES AND FIRE DISTRICTS.
3. HYDRANT FACE TO BE A MINIMUM OF 3'-0" FROM THE BACK FACE OF ALL CURBS OR A MINIMUM OF 5'-0" FROM ALL EDGE OF PAVEMENT.

HYDRANT ASSEMBLY INSTALLATION

SCALE: NTS

Revision: 2024-01

Detail: SD-16

TOWN OF AMHERST APPROVAL BOX:

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CARMINAWOOD DESIGN
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STATE OF NEW YORK
CHRISTOPHER R. WOOD
076994
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Utility Details

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
C-403

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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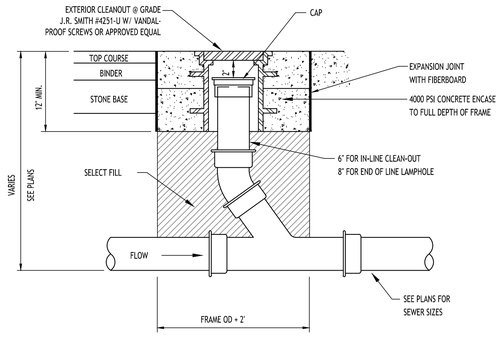
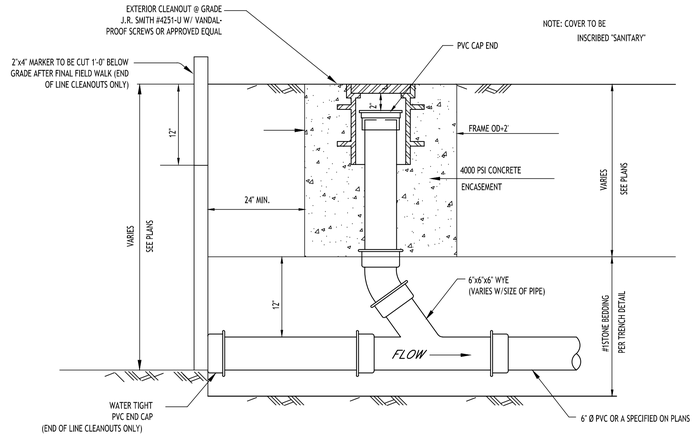


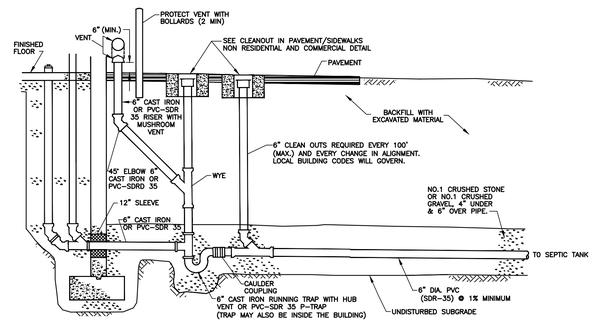
LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE



NOTES:

1. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST ASTM SPECIFICATION. WHERE CAST IRON SOIL PIPE MATERIAL SHALL BE EXTRA HEAVY CAST IRON MEETING THE REQUIREMENTS OF ASTM A74-42.
2. SELECT BACKFILL REQUIRED UNDER PAVED AREAS.
3. CONCRETE ENCASEMENT IF COVER DEPTH IS LESS THAN 4'-0" UNDER PAVED AREAS
4. MIN. DEPTH OF COVER 3'-0"
5. CLEAN OUT MEASUREMENTS SHALL START FROM CENTERLINE OF MAIN SEWER FOR NEARSIDE LATERALS AND FROM THE 6" CLEAN OUT FOR FAR SIDE CONNECTIONS. A CLEAN OUT MAY BE REQUIRED FOR ANY ABRUPT CHANGES IN LATERAL DIRECTION FLOW
6. ANY EXCAVATION TO BE LEFT OPEN OVERNIGHT SHALL BE COMPLETELY ENCLOSED IN FENCING, OR WHERE NECESSARY, COVERED WITH STEEL PLATES.
7. DOWN SPOUTS, SUMP PUMPS, AND FOOTING DRAINS ARE NOT PERMITTED TO BE CONNECTED TO THE LATERAL.
8. FOR NEW STRUCTURES, NO CONNECTION SHALL BE MADE UNTIL BUILDING ROOF IS ERECTED AND BASEMENT FLOOR IS POURED.

TYPICAL COMMERCIAL SERVICE WITHOUT BASEMENT DETAIL

TOWN OF AMHERST APPROVAL BOX:

1.d

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STATE OF NEW YORK
CHRISTOPHER WOOD
076994
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Utility Details

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.

C-404

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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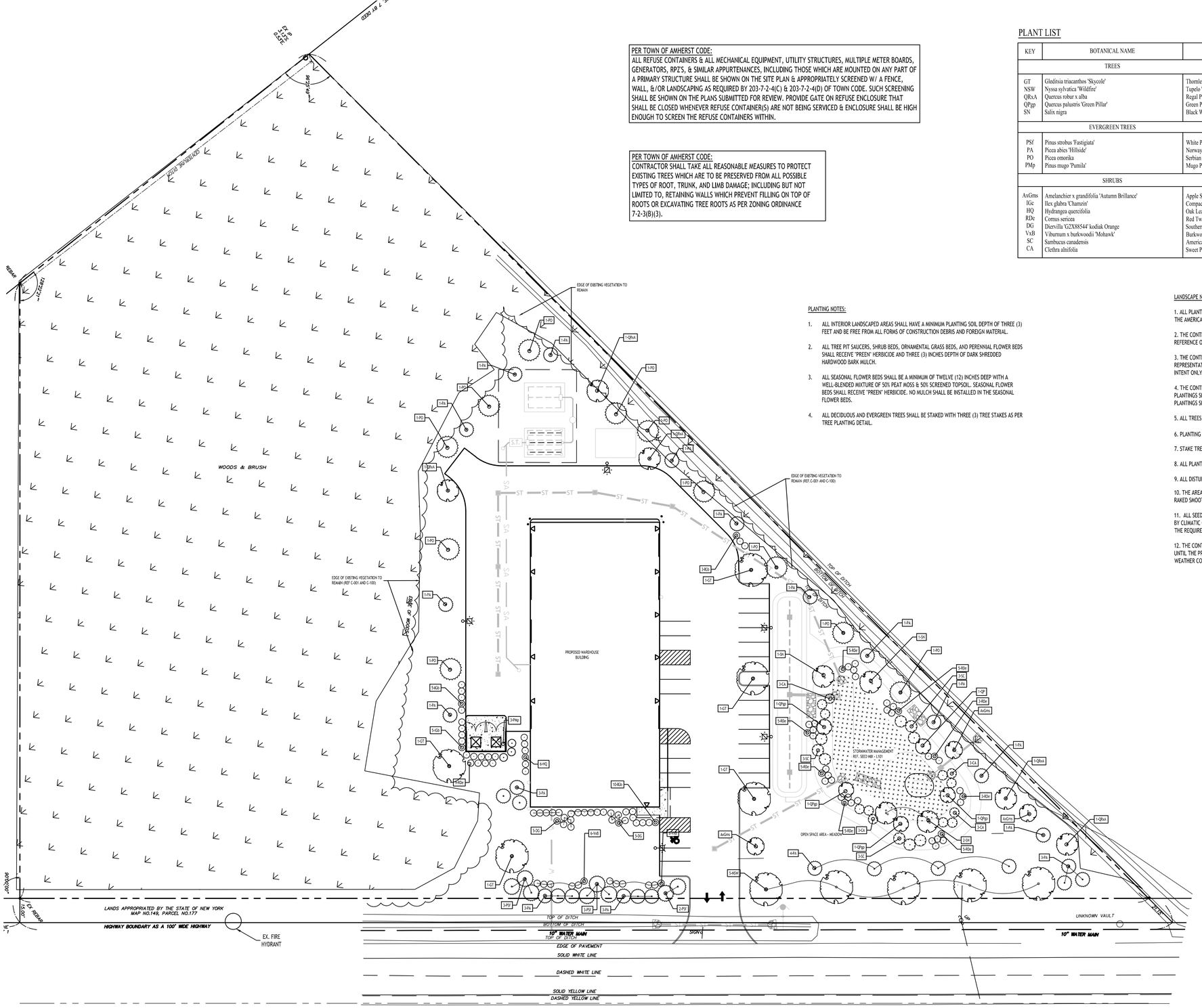
EDGE OF EXISTING VEGETATION TO REMAIN
EDGE OF EXISTING VEGETATION TO REMAIN (REF C-001 AND C-100)
EDGE OF EXISTING VEGETATION TO REMAIN (REF C-001 AND C-100)
WOODS & BRUSH
WOODS & BRUSH
PROPOSED WAREHOUSE BUILDING
STORMWATER MANAGEMENT REF. SEED MIX - LIST
OPEN SPACE AREA = MEADOW
TOP OF DITCH
BOTTOM OF DITCH
TOP OF DITCH
EDGE OF PAVEMENT
SOLID WHITE LINE
DASHED WHITE LINE
SOLID YELLOW LINE
DASHED YELLOW LINE
10" WATER MAIN
10" WATER MAIN
UNKNOWN VAULT
SIGN
EX. FIRE HYDRANT
LANDS APPROPRIATED BY THE STATE OF NEW YORK MAP NO.149, PARCEL NO.177
HIGHWAY BOUNDARY AS A 100' WIDE HIGHWAY
MILLERSPORT (130' WIDE) HIGHWAY
N.Y. RTE. 263
S.T.
ST
SA
LOT LINE
LOT LINE
LOT LINE

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Rain Garden Mix - ERNMX-180

	Botanical Name	Common Name
29.50 %	*Schizachyrium scoparium, Fort Indiantown Gap-PA Ecotype*	Little Bluestem, Fort Indiantown Gap-PA Ecotype
20.00 %	*Elymus virginicus, Madison-NY Ecotype*	Virginia Wildrye, Madison-NY Ecotype
9.00 %	*Carex vulpinoidea, PA Ecotype*	Fox Sedge, PA Ecotype
8.00 %	*Echinacea purpurea*	Purple Coneflower
5.80 %	*Panicum rigidulum, PA Ecotype*	Redtop Panicgrass, PA Ecotype
5.30 %	*Chasmanthium latifolium, WV Ecotype*	River Oats, WV Ecotype
3.00 %	*Coreopsis lanceolata*	Lanceleaf Coreopsis
3.00 %	*Rudbeckia hirta*	Blackeyed Susan
2.50 %	*Verbena hastata, PA Ecotype*	Blue Vervain, PA Ecotype
2.00 %	*Panicum clandestinum, Tioga*	Deertongue, Tioga
1.80 %	*Heliopsis helianthoides, PA Ecotype*	Oxeye Sunflower, PA Ecotype
1.50 %	*Asclepias incarnata, PA Ecotype*	Swamp Milkweed, PA Ecotype
1.30 %	*Penstemon digitalis, PA Ecotype*	Tall White Beardtongue, PA Ecotype
1.00 %	*Carex scoparia, PA Ecotype*	Blunt Broom Sedge, PA Ecotype
1.00 %	*Senna hebecarpa, VA & WV Ecotype*	Wild Senna, VA & WV Ecotype
1.00 %	*Zizia aurea, PA Ecotype*	Golden Alexanders, PA Ecotype
0.50 %	*Baptisia australis, Southern WV Ecotype*	Blue False Indigo, Southern WV Ecotype
0.50 %	*Juncus effusus*	Soft Rush
0.50 %	*Juncus tenuis, PA Ecotype*	Path Rush, PA Ecotype
0.50 %	*Pycnanthemum tenuifolium*	Narrowleaf Mountainmint
0.50 %	*Vernonia noveboracensis, PA Ecotype*	New York Ironweed, PA Ecotype
0.40 %	*Aster novae-angliae, PA Ecotype*	New England Aster, PA Ecotype
0.40 %	*Monarda fistulosa, Fort Indiantown Gap-PA Ecotype*	Wild Bergamot, Fort Indiantown Gap-PA Ecotype
0.20 %	*Aster prenanthoides, PA Ecotype*	Zigzag Aster, PA Ecotype
0.10 %	*Aster lanceolatus*	Lance Leaved Aster
0.10 %	*Aster lateriflorus*	Calico Aster
0.10 %	*Aster pilosus, PA Ecotype*	Heath Aster, PA Ecotype
0.10 %	*Eupatorium perfoliatum, PA Ecotype*	Boneset, PA Ecotype
0.10 %	*Mimulus ringens, PA Ecotype*	Square Stemmed Monkeyflower, PA Ecotype
0.10 %	*Solidago juncea, PA Ecotype*	Early Goldenrod, PA Ecotype
0.10 %	*Solidago nemoralis, PA Ecotype*	Gray Goldenrod, PA Ecotype
0.10 %	*Solidago rugosa, PA Ecotype*	Wrinkleleaf Goldenrod, PA Ecotype

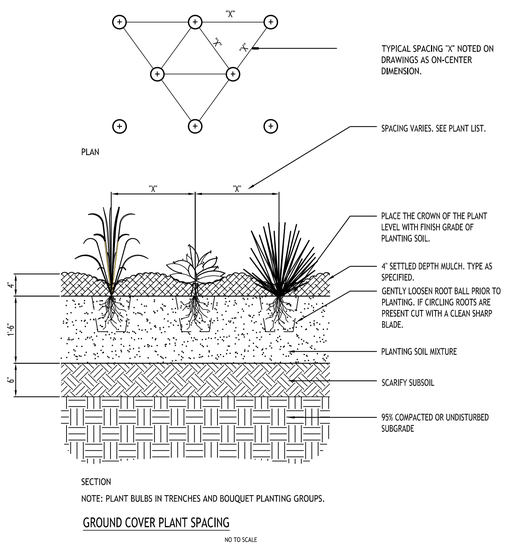
100.00 %

Seeding Rate: 20 lb per acre with a cover crop. For sites that drain within 24 hours of a rain event use one of the following cover crops:Oats (1 Jan to 31 Jul; 30 lbs/acre), Japanese Millet (1 May to 31 Aug; 10 lbs/acre), or grain rye (1 Aug to 31 Dec; 30 lbs/acre).

Grasses & Grass-like Species - Herbaceous Perennial; Herbaceous Flowering Species - Herbaceous Perennial; Stormwater Management; Uplands & Meadows

The native perennial forbs and grasses provide food and cover for rain garden biodiversity. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

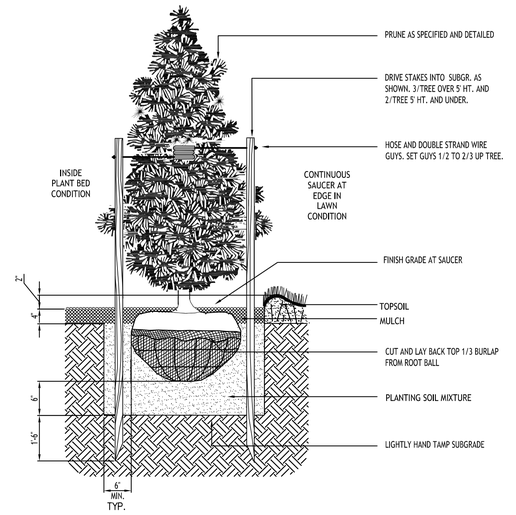
ERNST SEEDS



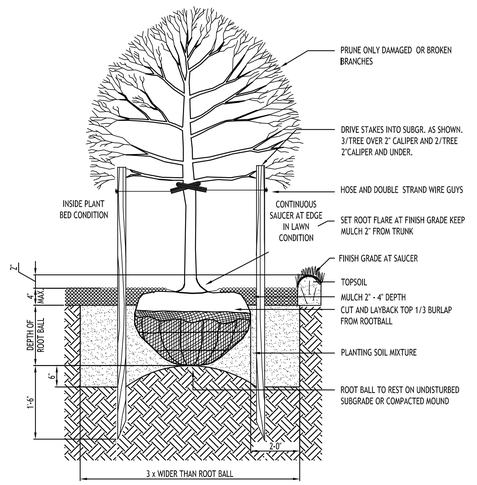
NOTE: PLANT BULBS IN TRENCHES AND BOUQUET PLANTING GROUPS.

GROUND COVER PLANT SPACING

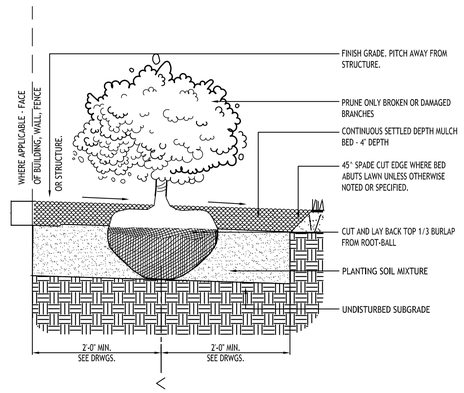
NO TO SCALE



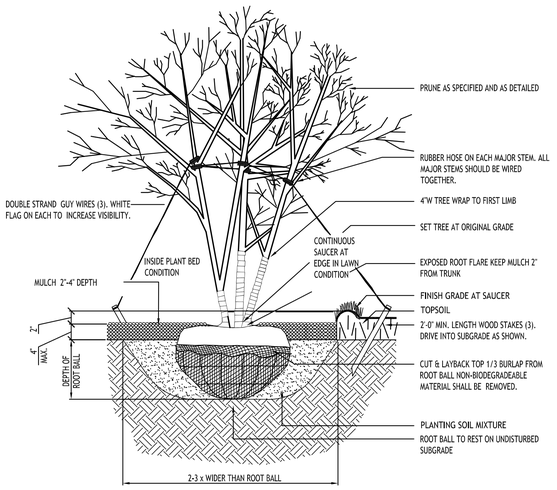
STD. EVERGREEN PLANTING



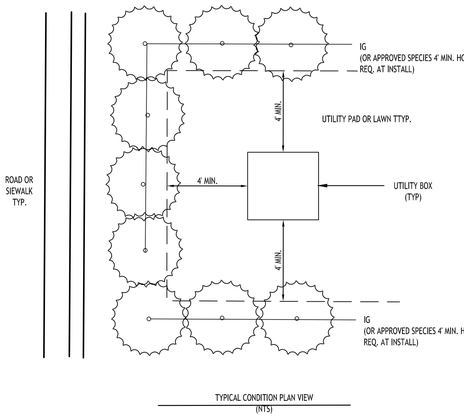
STD. DECIDUOUS TREET PLANTING



STD. SHRUB PLANTING



STD. MULTI STEM DECIDUOUS TREE PLANTING

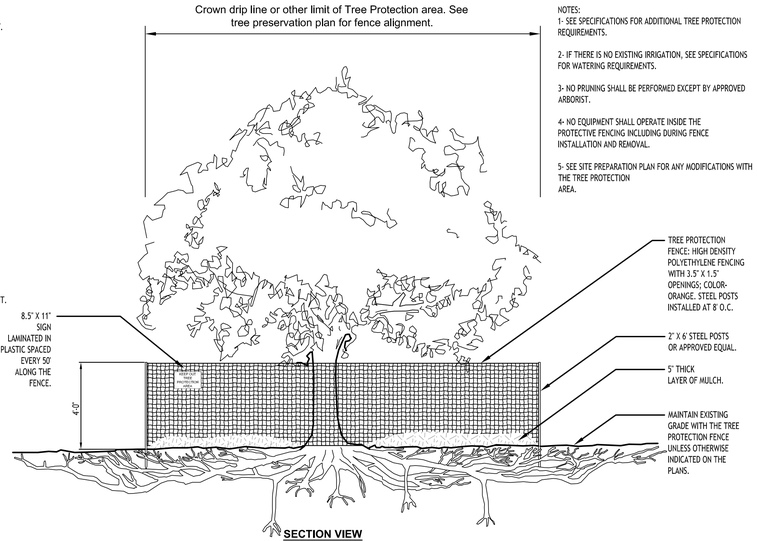


TYPICAL CONDITION PLAN VIEW (NTS)

NOTES:

1. USE EVERGREEN SHRUBS TO SCREEN ALL ABOVEGROUND UTILITY BOXES AND INFASTRUCTURE FROM ADJACENT ROAD OR SIDEWALK PER TOWN OF AMHERST CODE
2. PROVIDE A MINIMUM 4' OFFSET FROM THE SHRUBS PLANTED EDGE TO THE EDGE OF THE UTILITY BOX TO ALLOW ENOUGH CLEARANCE FOR UTILITY MAINTENANCE TO BE PERFORMED

TYPICAL SHRUB PLANTING TO SCREEN UTILITY INFASTRUCTURE



NOTES:
1- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

2- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.

3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.

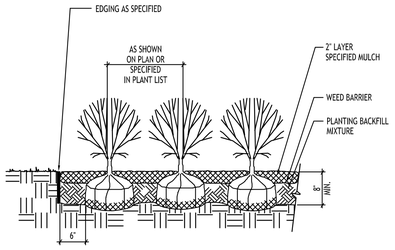
4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.

5- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

TREE PROTECTION / SAFETY NETTING

NOTE - REFERENCE SHEET C-001 FOR PROTECTION TREATMENT AREA

NO TO SCALE



STD. SHRUB SPACING/PLANTING

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS: No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025



Sealed 07/07/2025

DRAWING NAME:

Landscape Details

Date: 11/15
Drawn By: C. W
Scale: As No

DRAWING NO.

L-101

Project No: 24.4019

Attachment: SP-2024-10 drawings 08212s (29733 : SP-2024-10, 5500 Millersport Highway)

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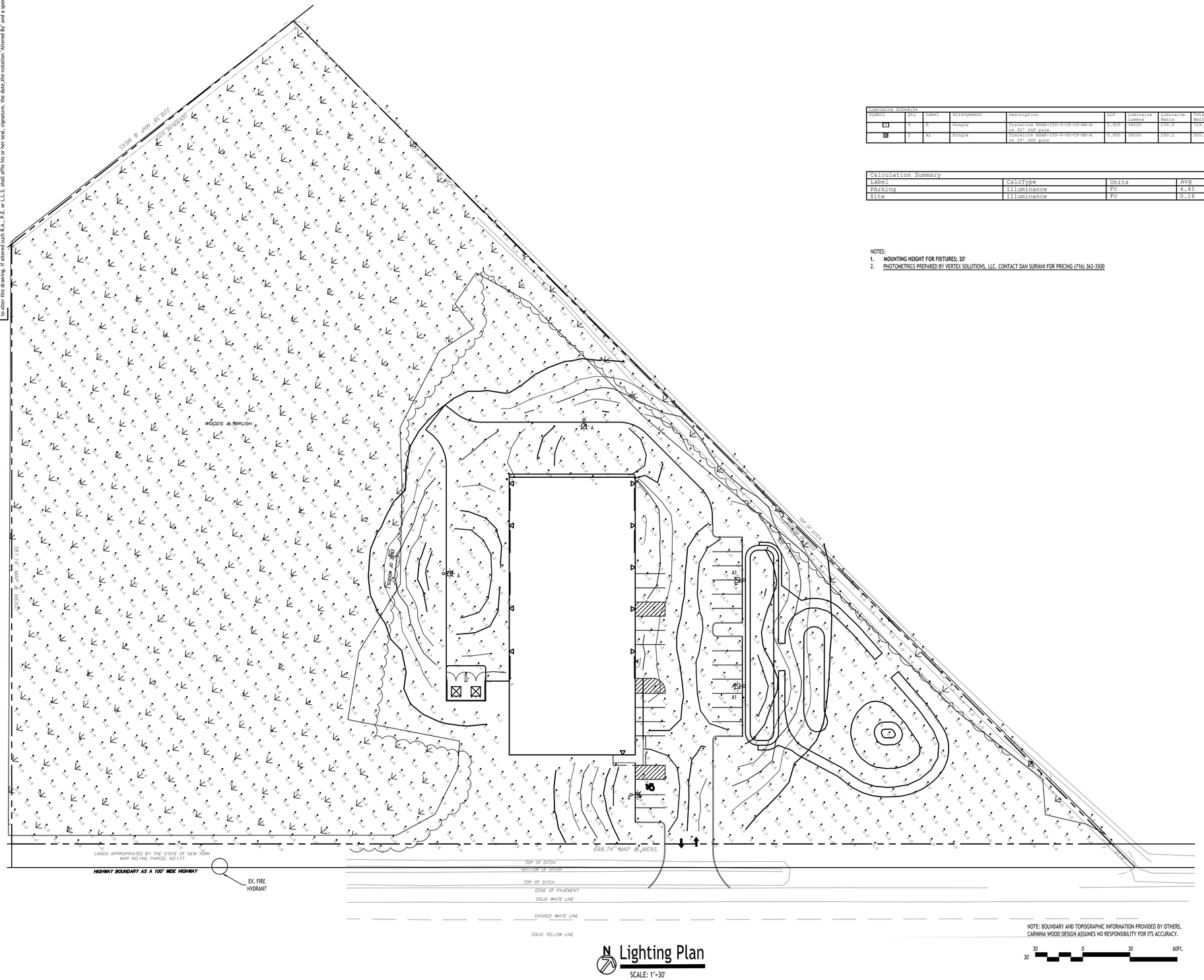

N Lighting Plan

SCALE: 1"=30'

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	3	A	Single	Tracelite RXAR-250-3-VS-CP-BK-A on 20' SSS pole	0.900	36000	239.9	719.7
	2	A1	Single	Tracelite RXAR-250-4-VS-CP-BK-A on 20' SSS pole	0.900	36000	250.2	500.4

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PArking	Illuminance	Fc	4.45	19.1	0.0	N.A.	N.A.
Site	Illuminance	Fc	0.16	11.4	0.0	N.A.	N.A.

NOTES:
1. MOUNTING HEIGHT FOR FIXTURES; 20'
2. PHOTOMETRICS PREPARED BY VERTEX SOLUTIONS, LLC. CONTACT DAN SURIANI FOR PRICING (716) 362-3500

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

TOWN OF AMHERST APPROVAL BOX:

1.d

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK * CHRISTOPHER R WOOD * LICENSED PROFESSIONAL ENGINEER * 076394

DRAWING NAME:

Lighting Plan

Date: 11/19
Drawn By: C. W
Scale: As No

DRAWING NO.

LP-100

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Packet Pg. 743

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TRACE•LITE
commercial & industrial lighting

RXAR Series
LED Area Light

Model: _____ Date: _____

Accessories: _____

Job Name: _____ Type: _____



DESCRIPTION
The RXAR Series LED area luminaire offers performance and durability with a rugged, one-piece die-cast aluminum housing and high efficacy of up to 172 lumens per watt. This versatile luminaire is designed to ensure optimal heat dissipation and energy efficiency, guaranteeing longevity and reliability. It is available in Type II, III, IV, and V distributions to cater to diverse lighting needs while maintaining zero uplight to eliminate light pollution. With field switchable power (6,200 to 60,000 lumens), and CCT (3000K-4000K-5000K, depending on model), the RXAR Series offers unparalleled flexibility. Includes straight arm for mounting to 4" and 5" square or round pole standard in the packaging. Several other mounts, shields and accessories are available for maximum project flexibility.

SPECIFICATIONS
Construction:
- Sleek die-cast aluminum housing with stainless steel hardware and powder coated finish
- Integral heat sink fins maximize heat dissipation
- Hinged driver access door for ease of maintenance
- Straight arm for 4" and 5" square or round pole included standard, other mounting accessories available
- Slotted bolt pattern suitable for retrofit to most existing drill hole patterns
- Includes a 12" whip (5 conductors provided for convenience, dimming leads not connected)

Optics/LEDs:
- 40 to 400 Watts with lumen packages up to 60,000 lumens
- Designed with zero uplight to eliminate light pollution
- Efficacies up to 172 LPW maximize energy savings and utility rebates
- Type II, III, IV and V distributions optimize light distribution
- Easily field switchable between 3000K, 4000K and 5000K CCT (4000K and 5000K for 400W models)
- L70 of >100,000 hours
- L90 of 40,000 hours
- CRI ≥80

Electrical:
- Class 2 power supply, 120-277VAC, 50/60Hz
- 0-10V Dimming driver
- Power Factor ≥ 0.90
- 277-480VAC Dedicated driver option
- 10KA(@120-277V) or 20KA(@347-480V) surge protection

Testing & Compliance:
- cULus Listed for Wet Locations, tested to meet IP65 requirements
- DesignLights Consortium® (DLC) PREMIUM Qualified (consult DPL for qualified models)
- Operating temperature: -40°C to 45°C (-40°F to 113°F). -40°C to 40°C (-40°F to 104°F) for the 400W model
- 3G Vibration rated enclosure
- International Dark Sky friendly approved product. (IDA) (compliant only with a fixed downlight mount) and with factory installed RXAR-DSFA module locking CCT to 3000K

Installation:
- Hinged driver door for ease of access (coin plugs on the driver door provides ease of access to dipswitches for power and CCT selectability)
- Standard with pole mount arm suitable for 4" or 5" square or round poles. Arm features access door for easy wiring on site
- Additional contractor friendly mounts such as slipfitter, trunnion, swivel, adjustable pole mount, and wall bracket

Warranty:
- Five Year Warranty (Terms and Conditions Apply)
- 10 Year Warranty available upon request, consult factory

Options:
- 120-277VAC 3-Pin Twist Lock receptacle (option TLPC) (Twist Lock photocontrol included)
- 120-277VAC 7-Pin Twist Lock receptacle (option TLPC3) (Twist Lock photocontrol included)
- 347-480VAC 3-Pin Twist Lock Receptacle (option TLPC4) (Twist Lock photocontrol included)

Specs at a Glance

Model	RXAR-100	RXAR-140	RXAR-250	RXAR-300	RXAR-400
Wattage*	40W-60W-80W-100W (Switchable)	60W-90W-120W-140W (Switchable)	100W-150W-200W-250W (Switchable)	120W-180W-240W-300W (Switchable)	300W-320W-360W-400W (Switchable)
Lumens (lm)	6,400 - 16,000	9,600 - 23,000	14,500 - 38,000	18,000 - 46,000	46,000 - 60,000
Efficacy (LPW)	up to 170	up to 172	up to 161	up to 169	up to 167
Distribution	Type II, III, IV, V				
CCT (K)	3000K-4000K-5000K (Switchable)				4000K-5000K (Switchable)
CRI	>80				
Input Voltage	120-277VAC or 277-480VAC				
Operating Temp	-40°C to 45°C				-40°C to 40°C
Certifications	UL Listed for Wet Locations, IP65, DLC PREMIUM				
Warranty	5 Years				
Weight	12.0 lbs	12.4 lbs	17.4 lbs	18.0 lbs	18.5 lbs

* Nominal Wattage. Tested at 4000K CCT, 120-277VAC, Type II distribution. See performance table for more detailed lumen information.

Note: Environment and application will affect actual performance. Typical values and 25°C used for testing.

Factory Installed Accessories:
- Factory installed module to lock CCT to 3000K for Dark Sky IDA compliance (RXAR-DSFA)

Field Installed Accessories:
- 3-Pin Twist Lock universal photocontrol (120-277VAC) for dusk to dawn lighting control (TLPR)
- 3-Pin Twist Lock universal photocontrol (347-480VAC) for dusk to dawn lighting control (TLPRH)
- 7-Pin Twist Lock universal photocontrol (120-277VAC) for dusk to dawn lighting control (TLPR7)
- Bluetooth enabled dimming occupancy sensor (LE-MS3W-BL-AUX-HB1). PIR, 120/277VAC
- Dimming occupancy sensor (TL-MSP12-BL). PIR, with photocontrol, 120/277VAC
- Multiple contractor friendly mounts and accessories available, see ordering information

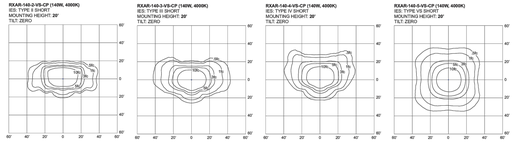
Ordering Information (Example: RXAR-250-3-VS-CP-BR-A-TLPC)

Series	Wattage, Size	Distribution	Input Voltage	CCT	Finish	Mount
RXAR	100 = 40-100W, Small	2 = Type II	HVS[1] = 277-480VAC	CPT = CCT & Power Switchable	BL[1] = Black	A = Pole Mount Arm
	140 = 60-140W, Small	3 = Type III	VS = 120-277VAC		BR = Bronze	
	250 = 100-250W, Large	4 = Type IV			SV[1] = Gray Aluminum	
	300 = 120-300W, Large	5 = Type V			WH[1] = White	
	400 = 300-400W, Large			**Options (Factory Installed)**		
				TLPC = 120-277VAC 3-Pin Twist Lock Photocontrol and Receptacle		
Accessories (Factory Installed - Order As Separate Line Item)				TLPC3 = 120-277VAC 7-Pin Twist Lock Photocontrol and Receptacle		
RXAR-DSFA = Factory installed module to lock CCT to 3000K CT for Dark Sky IDA Compliance				TLPC4 = 347-480VAC 3-Pin Twist Lock Photocontrol and Receptacle		

LiteLogic Accessories[1] (Field Installed - Order As Separate Line Item)	Accessories[1] (Field Installed - Order As Separate Line Item)
LE-MS3W-BL-AUX-HB1 = Bluetooth PIR Motion Sensor with Photocontrol, Black	RXAR-APM-XX[4] = Adjustable Pole Mount Arm (XX = BL, Black, BR: Bronze, SV, Gray Alum, WH: White)
TL-MSP12-BL = Dimming Occupancy Sensor, PIR, Black Finish	RXAR-HSP = House Side Shield
TL-MSSW-REMOTE = Remote for Sensor	RXAR-L-FGS-BR = Full Glare Shield, Large, Bronze Finish (250W, 300W, 400W)
TLPR = 120-277VAC 3-Pin Twist Lock Photocontrol and Receptacle	RXAR-L-GS-BR = Glare Shield, Large, Bronze Finish (250W, 300W, 400W)
TLPR7 = 120-277VAC 7-Pin Twist Lock Photocontrol and Receptacle	RXAR-S-FGS-BR = Full Glare Shield, Small, Bronze Finish (100W, 140W)
TLPRH = 347-480VAC 3-Pin Twist Lock Photocontrol and Receptacle	RXAR-S-GS-BR = Glare Shield, Small, Bronze Finish (100W, 140W)
	RXAR-SF-XX[4] = Slip fitter Mount (XX = BL, Black, BR: Bronze, SV, Gray Alum, WH: White)
Notes	RXAR-WM-XX[4] = Wall Mount (XX = BL, Black, BR: Bronze, SV, Gray Alum, WH: White)
[1] 70 CRI only, longer lead times may apply, consult factory	RXAR-SW-XX[4] = Swivel Mount (XX = BL, Black, BR: Bronze, SV, Gray Alum, WH: White)
[2] 400W Switchable between 4000K/5000K, static 3000K option available - consult factory	RXAR-TR-XX[4] = Trunnion Mount (XX = BL, Black, BR: Bronze, SV, Gray Alum, WH: White)
[3] Order as separate line item - Shipped in separate box for final installation in the field	
[4] Black (BL), Gray Aluminum (SV), and White (WH) finishes may require longer lead times, consult factory (default finish is bronze)	
[5] Two (2) pieces required for 250W, 300W, and 400W units	

ADDITIONAL POLE MOUNTS AVAILABLE - SEE PAGES 6-7 FOR DETAILS

Sample Photometry



Performance Table

Model	Wattage	CCT	Distribution	Lumens	LPW	BUG Rating	CRI
RXAR-100-2-VS-CP-BR-A (100W, T2, 4000K)	100W	4000K	Type II	15400lm	154 lm/W	B3-U0-G3	80
RXAR-100-2-VS-CP-BR-A (80W, T2, 4000K)	80W	4000K	Type II	12700lm	159 lm/W	B3-U0-G3	80
RXAR-100-2-VS-CP-BR-A (60W, T2, 4000K)	60W	4000K	Type II	9800lm	163 lm/W	B3-U0-G2	80
RXAR-100-2-VS-CP-BR-A (40W, T2, 4000K)	40W	4000K	Type II	6600lm	165 lm/W	B2-U0-G2	80
RXAR-100-3-VS-CP-BR-A (100W, T3, 4000K)	100W	4000K	Type III	15400lm	154 lm/W	B3-U0-G2	80
RXAR-100-3-VS-CP-BR-A (80W, T3, 4000K)	80W	4000K	Type III	12700lm	159 lm/W	B3-U0-G2	80
RXAR-100-3-VS-CP-BR-A (60W, T3, 4000K)	60W	4000K	Type III	9800lm	163 lm/W	B2-U0-G2	80
RXAR-100-3-VS-CP-BR-A (40W, T3, 4000K)	40W	4000K	Type III	6600lm	165 lm/W	B2-U0-G2	80
RXAR-100-4-VS-CP-BR-A (100W, T4, 4000K)	100W	4000K	Type IV	15400lm	154 lm/W	B3-U0-G2	80
RXAR-100-4-VS-CP-BR-A (80W, T4, 4000K)	80W	4000K	Type IV	12700lm	159 lm/W	B3-U0-G2	80
RXAR-100-4-VS-CP-BR-A (60W, T4, 4000K)	60W	4000K	Type IV	9800lm	163 lm/W	B2-U0-G2	80

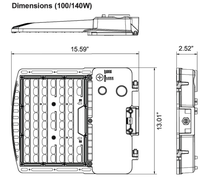
Performance Table (continued)

Model	Wattage	CCT	Distribution	Lumens	LPW	BUG Rating	CRI
RXAR-100-4-VS-CP-BR-A (40W, T4, 4000K)	40W	4000K	Type IV	6600lm	165 lm/W	B2-U0-G1	80
RXAR-100-5-VS-CP-BR-A (100W, T5, 4000K)	100W	4000K	Type V	15600lm	156 lm/W	B4-U0-G2	80
RXAR-100-5-VS-CP-BR-A (80W, T5, 4000K)	80W	4000K	Type V	13000lm	163 lm/W	B3-U0-G2	80
RXAR-100-5-VS-CP-BR-A (60W, T5, 4000K)	60W	4000K	Type V	10000lm	167 lm/W	B3-U0-G2	80
RXAR-100-5-VS-CP-BR-A (40W, T5, 4000K)	40W	4000K	Type V	6800lm	170 lm/W	B3-U0-G1	80
RXAR-140-2-VS-CP-BR-A (140W, T2, 4000K)	140W	4000K	Type II	22400lm	160 lm/W	B3-U0-G3	80
RXAR-140-2-VS-CP-BR-A (120W, T2, 4000K)	120W	4000K	Type II	19600lm	163 lm/W	B3-U0-G3	80
RXAR-140-2-VS-CP-BR-A (90W, T2, 4000K)	90W	4000K	Type II	14800lm	164 lm/W	B3-U0-G3	80
RXAR-140-2-VS-CP-BR-A (60W, T2, 4000K)	60W	4000K	Type II	10000lm	167 lm/W	B2-U0-G2	80
RXAR-140-3-VS-CP-BR-A (140W, T3, 4000K)	140W	4000K	Type III	22400lm	160 lm/W	B3-U0-G3	80
RXAR-140-3-VS-CP-BR-A (120W, T3, 4000K)	120W	4000K	Type III	19600lm	163 lm/W	B3-U0-G3	80
RXAR-140-3-VS-CP-BR-A (90W, T3, 4000K)	90W	4000K	Type III	14800lm	164 lm/W	B3-U0-G3	80
RXAR-140-3-VS-CP-BR-A (60W, T3, 4000K)	60W	4000K	Type III	10000lm	167 lm/W	B2-U0-G2	80
RXAR-140-4-VS-CP-BR-A (140W, T4, 4000K)	140W	4000K	Type IV	22400lm	160 lm/W	B3-U0-G3	80
RXAR-140-4-VS-CP-BR-A (120W, T4, 4000K)	120W	4000K	Type IV	19600lm	163 lm/W	B3-U0-G3	80
RXAR-140-4-VS-CP-BR-A (90W, T4, 4000K)	90W	4000K	Type IV	14800lm	164 lm/W	B3-U0-G3	80
RXAR-140-4-VS-CP-BR-A (60W, T4, 4000K)	60W	4000K	Type IV	10000lm	167 lm/W	B2-U0-G2	80
RXAR-140-5-VS-CP-BR-A (140W, T5, 4000K)	140W	4000K	Type V	23000lm	164 lm/W	B4-U0-G2	80
RXAR-140-5-VS-CP-BR-A (120W, T5, 4000K)	120W	4000K	Type V	20000lm	167 lm/W	B4-U0-G2	80
RXAR-140-5-VS-CP-BR-A (90W, T5, 4000K)	90W	4000K	Type V	15100lm	168 lm/W	B4-U0-G2	80
RXAR-140-5-VS-CP-BR-A (60W, T5, 4000K)	60W	4000K	Type V	10300lm	172 lm/W	B3-U0-G2	80
RXAR-250-2-VS-CP-BR-A (250W, T2, 4000K)	250W	4000K	Type II	36000lm	144 lm/W	B4-U0-G4	80
RXAR-250-2-VS-CP-BR-A (200W, T2, 4000K)	200W	4000K	Type II	29600lm	148 lm/W	B4-U0-G3	80
RXAR-250-2-VS-CP-BR-A (150W, T2, 4000K)	150W	4000K	Type II	22600lm	151 lm/W	B3-U0-G3	80
RXAR-250-2-VS-CP-BR-A (100W, T2, 4000K)	100W	4000K	Type II	15600lm	156 lm/W	B3-U0-G3	80
RXAR-250-3-VS-CP-BR-A (250W, T3, 4000K)	250W	4000K	Type III	36000lm	144 lm/W	B4-U0-G4	80
RXAR-250-3-VS-CP-BR-A (200W, T3, 4000K)	200W	4000K	Type III	29600lm	148 lm/W	B4-U0-G3	80
RXAR-250-3-VS-CP-BR-A (150W, T3, 4000K)	150W	4000K	Type III	22600lm	151 lm/W	B3-U0-G3	80
RXAR-250-3-VS-CP-BR-A (100W, T3, 4000K)	100W	4000K	Type III	15600lm	156 lm/W	B3-U0-G3	80
RXAR-250-4-VS-CP-BR-A (250W, T4, 4000K)	250W	4000K	Type IV	36000lm	144 lm/W	B4-U0-G4	80
RXAR-250-4-VS-CP-BR-A (200W, T4, 4000K)	200W	4000K	Type IV	29600lm	148 lm/W	B4-U0-G3	80
RXAR-250-4-VS-CP-BR-A (150W, T4, 4000K)	150W	4000K	Type IV	22600lm	151 lm/W	B3-U0-G3	80
RXAR-250-4-VS-CP-BR-A (100W, T4, 4000K)	100W	4000K	Type IV	15600lm	156 lm/W	B3-U0-G2	80
RXAR-250-5-VS-CP-BR-A (250W, T5, 4000K)	250W	4000K	Type V	37000lm	148 lm/W	B5-U0-G3	80
RXAR-250-5-VS-CP-BR-A (200W, T5, 4000K)	200W	4000K	Type V	30200lm	151 lm/W	B5-U0-G3	80
RXAR-250-5-VS-CP-BR-A (150W, T5, 4000K)	150W	4000K	Type V	23200lm	155 lm/W	B4-U0-G2	80
RXAR-250-5-VS-CP-BR-A (100W, T5, 4000K)	100W	4000K	Type V	16100lm	161 lm/W	B4-U0-G2	80
RXAR-300-2-VS-CP-BR-A (300W, T2, 4000K)	300W	4000K	Type II	43800lm	146 lm/W	B5-U0-G4	80
RXAR-300-2-VS-CP-BR-A (240W, T2, 4000K)	240W	4000K	Type II	36000lm	150 lm/W	B4-U0-G4	80
RXAR-300-2-VS-CP-BR-A (180W, T2, 4000K)	180W	4000K	Type II	27900lm	155 lm/W	B4-U0-G3	80
RXAR-300-3-VS-CP-BR-A (300W, T3, 4000K)	300W	4000K	Type III	43800lm	146 lm/W	B4-U0-G4	80
RXAR-300-3-VS-CP-BR-A (240W, T3, 4000K)	240W	4000K	Type III	36000lm	150 lm/W	B4-U0-G4	80
RXAR-300-3-VS-CP-BR-A (180W, T3, 4000K)	180W	4000K	Type III	27900lm	155 lm/W	B4-U0-G3	80
RXAR-300-3-VS-CP-BR-A (120W, T3, 4000K)	120W	4000K	Type III	19600lm	163 lm/W	B3-U0-G3	80
RXAR-300-4-VS-CP-BR-A (300W, T4, 4000K)	300W	4000K	Type IV	43800lm	146 lm/W	B4-U0-G4	80
RXAR-300-4-VS-CP-BR-A (240W, T4, 4000K)	240W	4000K	Type IV	36000lm	150 lm/W	B4-U0-G4	80
RXAR-300-4-VS-CP-BR-A (180W, T4, 4000K)	180W	4000K	Type IV	27900lm	155 lm/W	B4-U0-G3	80
RXAR-300-4-VS-CP-BR-A (120W, T4, 4000K)	120W	4000K	Type IV	19600lm	163 lm/W	B3-U0-G3	80
RXAR-300-5-VS-CP-BR-A (300W, T5, 4000K)	300W	4000K	Type V	44700lm	149 lm/W	B5-U0-G4	80
RXAR-300-5-VS-CP-BR-A (240W, T5, 4000K)	240W	4000K	Type V	37000lm	154 lm/W	B5-U0-G3	80

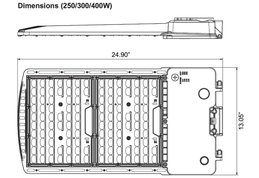
Performance Table (continued)

Model	Wattage	CCT	Distribution	Lumens	LPW	BUG Rating	CRI
RXAR-300-5-VS-CP-BR-A (180W, T5, 4000K)	180W	4000K	Type V	29000lm	161 lm/W	B5-U0-G3	80
RXAR-300-5-VS-CP-BR-A (120W, T5, 4000K)	120W	4000K	Type V	20300lm	169 lm/W	B4-U0-G2	80
RXAR-400-2-VS-CP-BR-A (400W, T2, 4000K)	400W	4000K	Type II	60800lm	152 lm/W	B5-U0-G4	80
RXAR-400-2-VS-CP-BR-A (360W, T2, 4000K)	360W	4000K	Type II	56200lm	156 lm/W	B5-U0-G4	80
RXAR-400-2-VS-CP-BR-A (325W, T2, 4000K)	325W	4000K	Type II	49900lm	156 lm/W	B5-U0-G4	80
RXAR-400-2-VS-CP-BR-A (300W, T2, 4000K)	300W	4000K	Type II	48900lm	163 lm/W	B5-U0-G4	80
RXAR-400-3-VS-CP-BR-A (400W, T3, 4000K)	400W	4000K	Type III	60800lm	152 lm/W	B5-U0-G5	80
RXAR-400-3-VS-CP-BR-A (360W, T3, 4000K)	360W	4000K	Type III	56200lm	156 lm/W	B5-U0-G5	80
RXAR-400-3-VS-CP-BR-A (325W, T3, 4000K)	325W	4000K	Type III	49900lm	156 lm/W	B5-U0-G4	80
RXAR-400-3-VS-CP-BR-A (300W, T3, 4000K)	300W	4000K	Type III	48900lm	163 lm/W	B5-U0-G4	80
RXAR-400-4-VS-CP-BR-A (400W, T4, 4000K)	400W	4000K	Type IV	60400lm	151 lm/W	B5-U0-G5	80
RXAR-400-4-VS-CP-BR-A (360W, T4, 4000K)	360W	4000K	Type IV	55400lm	154 lm/W	B5-U0-G5	80
RXAR-400-4-VS-CP-BR-A (325W, T4, 4000K)	325W	4000K	Type IV	50900lm	159 lm/W	B5-U0-G4	80
RXAR-400-4-VS-CP-BR-A (300W, T4, 4000K)	300W	4000K	Type IV	48600lm	162 lm/W	B4-U0-G4	80
RXAR-400-5-VS-CP-BR-A (400W, T5, 4000K)	400W	4000K	Type V	62400lm	156 lm/W	B5-U0-G4	80
RXAR-400-5-VS-CP-BR-A (360W, T5, 4000K)	360W	4000K	Type V	57600lm	160 lm/W	B5-U0-G4	80
RXAR-400-5-VS-CP-BR-A (325W, T5, 4000K)	325W	4000K	Type V	52200lm	163 lm/W	B5-U0-G4	80
RXAR-400-5-VS-CP-BR-A (300W, T5, 4000K)	300W	4000K	Type V	50100lm	167 lm/W	B5-U0-G4	80

Dimensions (100/140W)



Dimensions (250/300/400W)



EPA Values



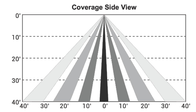
Model	1	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
100/140W	0.3632	0.6849	0.8861	1.0481	1.2078	1.0481
200/300/400W	0.4758	0.8091	1.059	1.2849	1.3923	1.2849

Sensor Details - Bluetooth Enabled (Accessory LE-MS3W-AUX-HB1)

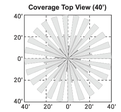


LE-MS3W-BL-AUX-HB1

Coverage Side View



Coverage Top View (40')



SEE APP FOR SENSOR SETTINGS

For a complete list of ***litelogic*** compatible products, click here.

litelogic LIGHTING CONTROLS

Get it from the App Store

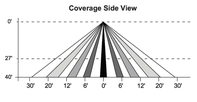
Get it from Google Play

Sensor Details (Accessories TL-MSP12-BL and TL-MSSW-REMOTE)

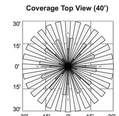


TL-MSP12-BL

Coverage Side View



Coverage Top View (40')



Sensor Settings (TL-MSSW-REMOTE)

DETECTION RADIUS/ANGLE	MAX 60'/360°
MOUNTING HEIGHT	MAX 40'
REMOTE RANGE	MAX 33'
FREQUENCY	5.8 gHz
HIGH MODE	70%, 80%, 90%, 100% (DEFAULT 100%)
SENSITIVITY	20%, 50%, 75%, 100% (DEFAULT 100%)
HOLD TIME	10sec, 1min, 5min, 10min, 15min, 20min, 30min, 60min (DEFAULT 5min)
DAYLIGHT HARVESTING	☀ (disabled), 10Lux, 30Lux, 50Lux, 100Lux, 150Lux, 200Lux, 300Lux (DEFAULT disabled)
STANDBY DIM SETTING	0, 10%, 20%, 30%, OFF (+), (DEFAULT 30%)
STANDBY TIME SETTING (TO OFF)	ON (disabled), 1min, 30min, 60min (DEFAULT 30min)



TL-MSSW-REMOTE Accessory (Sold Separately)

Shields (sold separately for field installation)



House Side Shield RXAR-HSS (Sold Separately)

Small Glare Shield RXAR-S-GS-BR (Sold Separately)

Large Glare Shield RXAR-L-GS-BR (Sold Separately)

Small Full Glare Shield RXAR-S-FGS-BR (Sold Separately)

Large Full Glare Shield RXAR-L-FGS-BR (Sold Separately)

Mounting (non-standard mounts sold separately for field installation)



Slipfitter RXAR-SF For 2-3/8" O.D. Pipe with Angle Markers (Sold Separately)

Swivel RXAR-SW Allows Fixture to Swivel and Tilt (180° total tilt, 180° total swivel) (Sold Separately)

Wall Mount RXAR-WM Allows for Direct Wall Mount (Sold Separately)

Trunnion RXAR-TR (Sold Separately)

Adjustable Pole Mount RXAR-APM Adjustable Between 90° Up and 90° Down with Angle Markers (Sold Seperately)

Pole Top Arms



RT2-90-2-BR
Round pole 90° tenon - 2 arms
Vertical steel tenon adaptor to mount over a 2-3/8" O.D. round pole, two arms, 90°. Bronze finish.



RT2-120-3-BR
Round pole, 120° tenon - 3 arms
Vertical steel tenon adaptor to mount over a 2-3/8" O.D. round pole, three arms, 120°. Bronze finish.



RT2-180-2-BR
Round pole 180° tenon - 2 arms
Vertical steel tenon adaptor to mount over a 2-3/8" O.D. round pole, two arms, 180°. Bronze finish.



RT2-90-4-BR
Round pole, 90° tenon - 4 arms
Vertical steel tenon adaptor to mount over a 2-3/8" round pole, four arms, 90°. Bronze finish.



RT2-90-3-BR
Round pole 90° tenon - 3 arms
Vertical steel tenon adaptor to mount over a 2-3/8" O.D. round pole, three arms, 90°. Bronze finish.

Tenon Adaptors



ST4-BR
Square tenon 4"
2-3/8" O.D. steel tenon adaptor to fit into 4" square pole. Includes 4x 5/16" hex stainless steel bolts. Bronze finish.



RT4-BR
Round tenon 4"
2-3/8" O.D. steel tenon adaptor to fit over 4" round pole. Not suitable for tapered poles. Includes 3x 3/8" hex stainless steel bolts. Bronze finish.



ST5-BR
Square tenon 5"
2-3/8" O.D. steel tenon adaptor to fit into a 5" square pole. Includes 4x 5/16" hex stainless steel bolts. Bronze finish.



RT5-BR
Round tenon 5"
2-3/8" O.D. steel tenon adaptor to fit over 5" round pole. Not suitable for tapered poles. Includes 3x 3/8" hex stainless steel bolts. Bronze finish.



YM-T-BR
Yoke mount tenon adaptor
2-3/8" O.D. steel tenon adaptor for use with yoke mount accessory. Bronze finish.

Wall Mount Adaptors

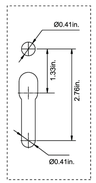


WM-T-90-BR
Wall mount 90° tenon
2-3/8" O.D. steel tenon adaptor with 90° arm for wall mount applications, for use with slipfitter accessory. Bronze finish. 3-1/4" Spacing beween mounting holes.



WM-T-S-BR
Wall mount straight tenon
2-3/8"O.D. steel tenon adaptor arm for wall mount applications, for use with slipfitter accessory. Bronze finish.

Drilling Template (Standard Mount)



TOWN OF AMHERST APPROVAL BOX:

CARMINA WOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building
5500 Millersport Highway
Amherst, New York

REVISIONS:		
No.	Description	Date
1	Rev. Per Town Comments	03/21/2025
2	Rev. Per Town Comments	07/07/2025

STATE OF NEW YORK
CHRISTOPHER WOOD
078394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Lighting Details

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
LP-100

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

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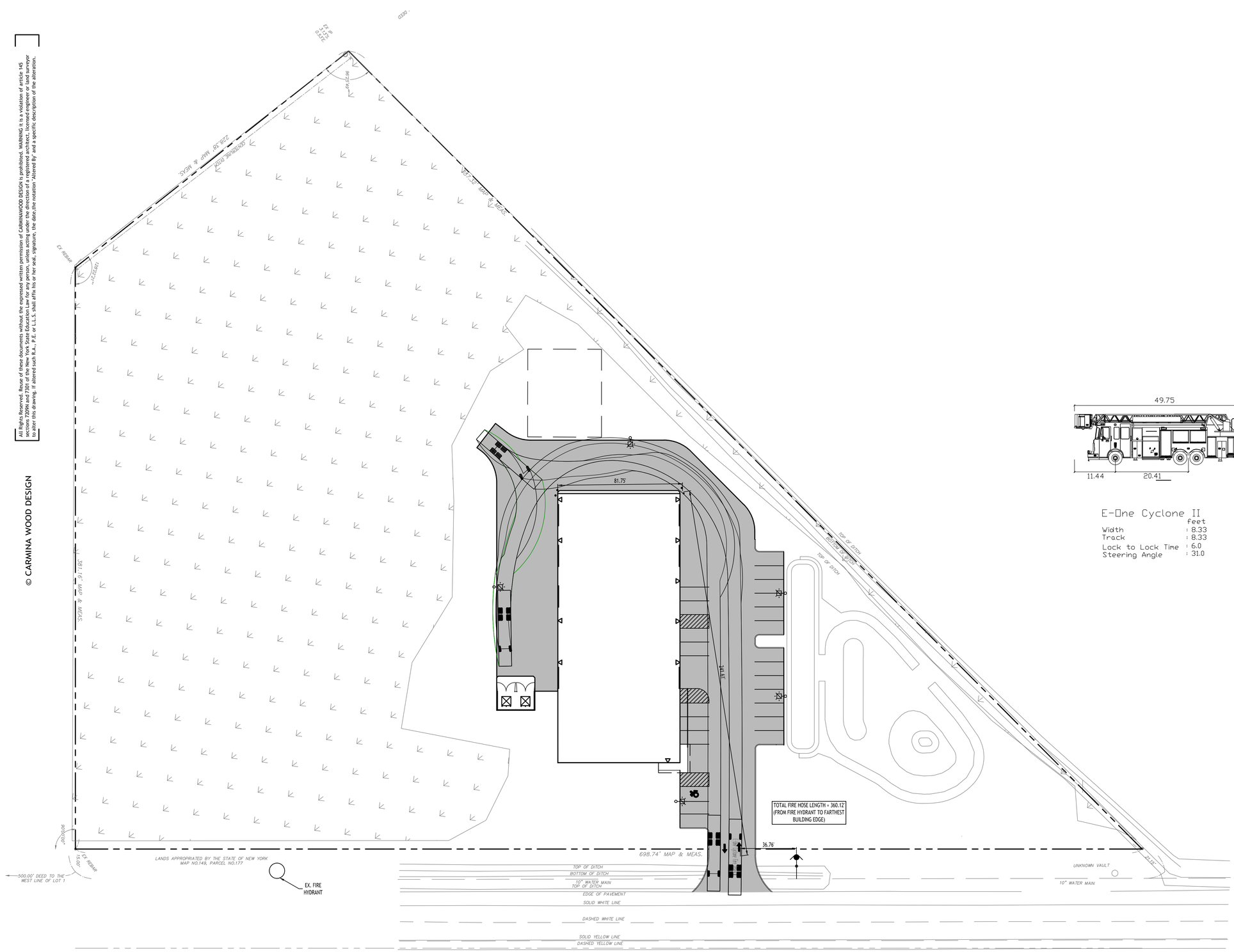

Fire Truck Turning Plan

SCALE: 1"=30'

E-One Cyclone II

	feet
Width	: 8.33
Track	: 8.33
Lock to Lock Time	: 6.0
Steering Angle	: 31.0

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Warehouse Building

5500 Millersport Highway
Amherst, New York

REVISIONS:		
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1	Rev. Per Town Comments	03/21/2025
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STATE OF NEW YORK
CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

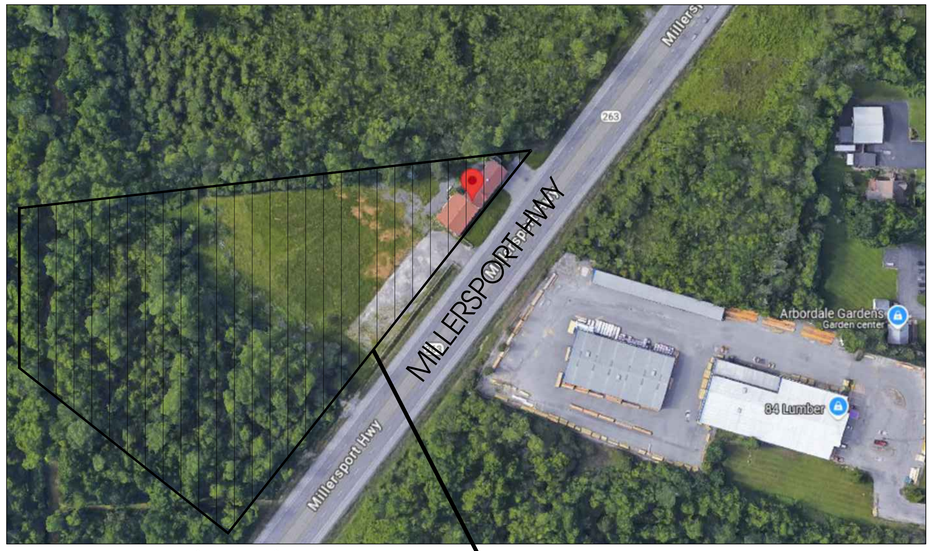
DRAWING NAME:
Fire Truck Turning Plan

Date: 11/19
Drawn By: C. W.
Scale: As No

DRAWING NO.
FT-100

Project No: 24.4019

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



1.1 Aerial View (Existing)

N.T.S.







1.2 Existing Conditions

N.T.S.



1.3 Concept Rendering (Millersport Hwy South-West)

N.T.S.



1.4 Concept Rendering (Millersport Hwy North-East)

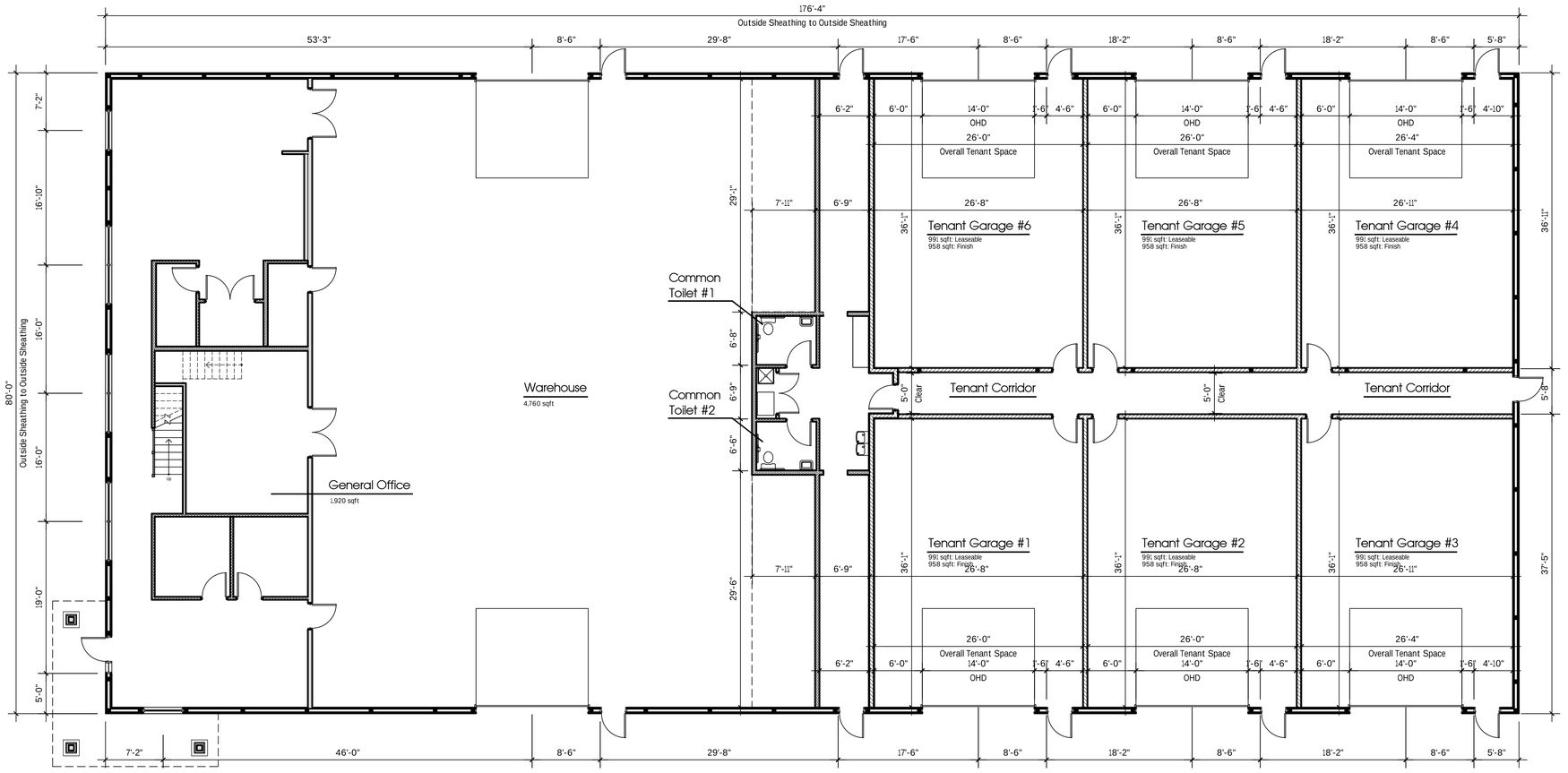
N.T.S.

Proposed Office Warehouse For:

Stephens Plumbing
5500 Millersport Hwy. East Amherst, NY 14051
SP-2024-10

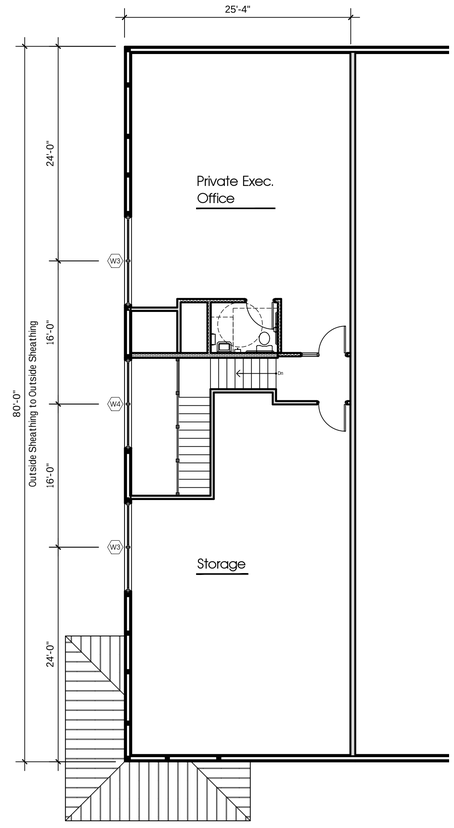
SUTTON architecture
"Design 2 Build"

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



2.1 First Floor Plan

1/8" = 1'-0"



2.2 Second Floor Plan (Partial)

1/8" = 1'-0"

Proposed Office Warehouse For:

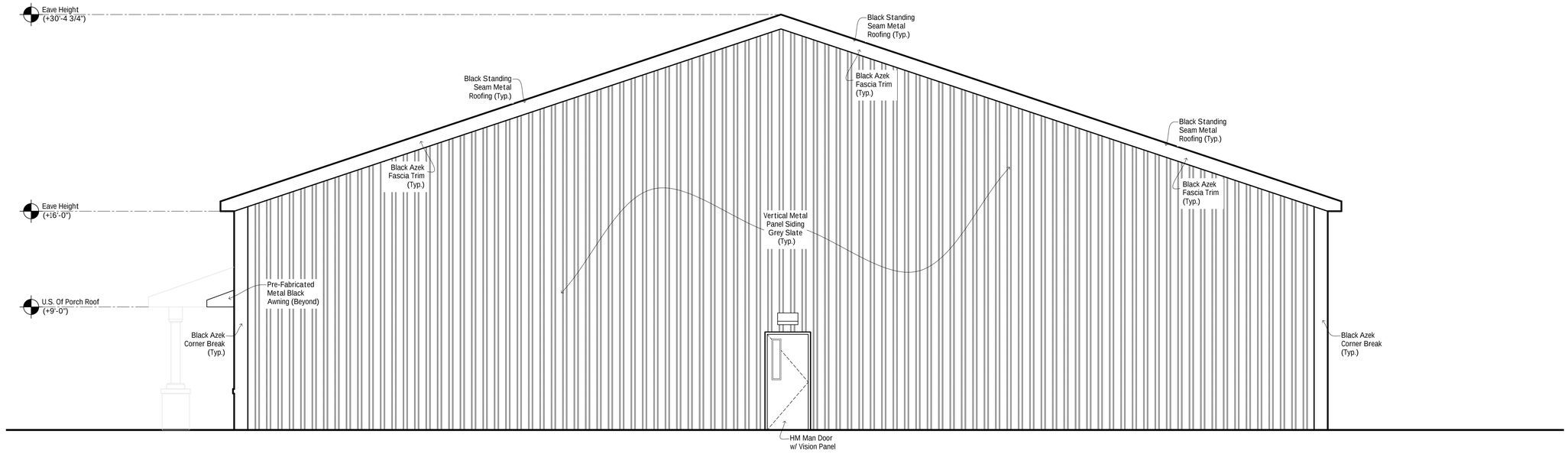
Stephens Plumbing

5500 Millersport Hwy. East Amherst, NY 14051

SP-2024-10

SUTTON architecture "Design 2 Build"

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



3.1 North Elevation

1/4" = 1'-0"

3.2 South Elevation (Millersport Hwy)

1/4" = 1'-0"

Proposed Office Warehouse For:

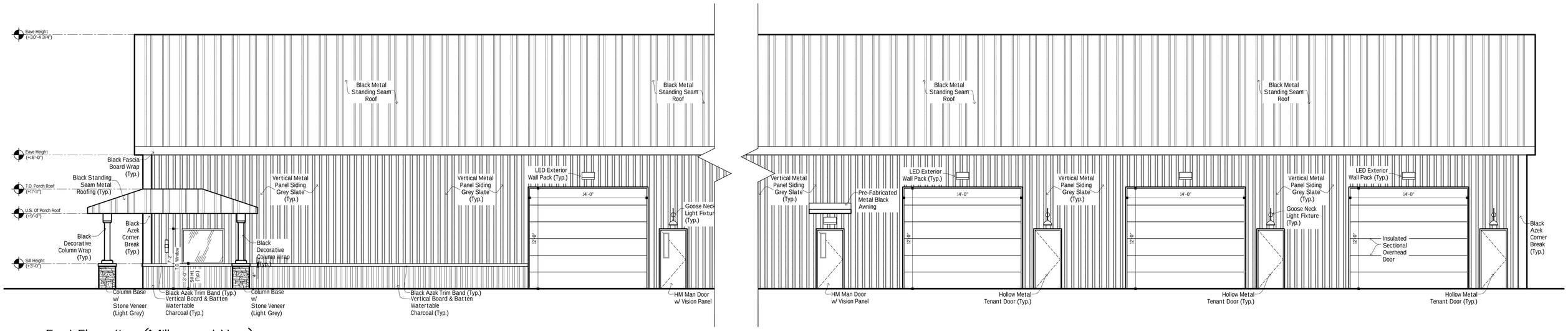
Stephens Plumbing

5500 Millersport Hwy. East Amherst, NY 14051

SP-2024-10

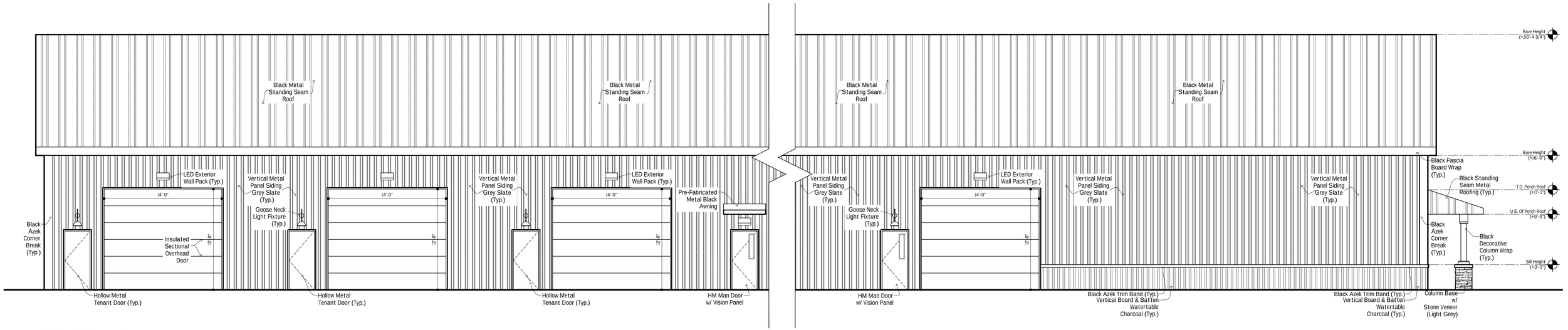
SUTTON architecture "Design 2 Build"

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)



4.1 East Elevation (Millersport Hwy)

1/4" = 1'-0"



4.2 West Elevation

1/4" = 1'-0"

Proposed Office Warehouse For:

Stephens Plumbing
5500 Millersport Hwy. East Amherst, NY 14051
SP-2024-10

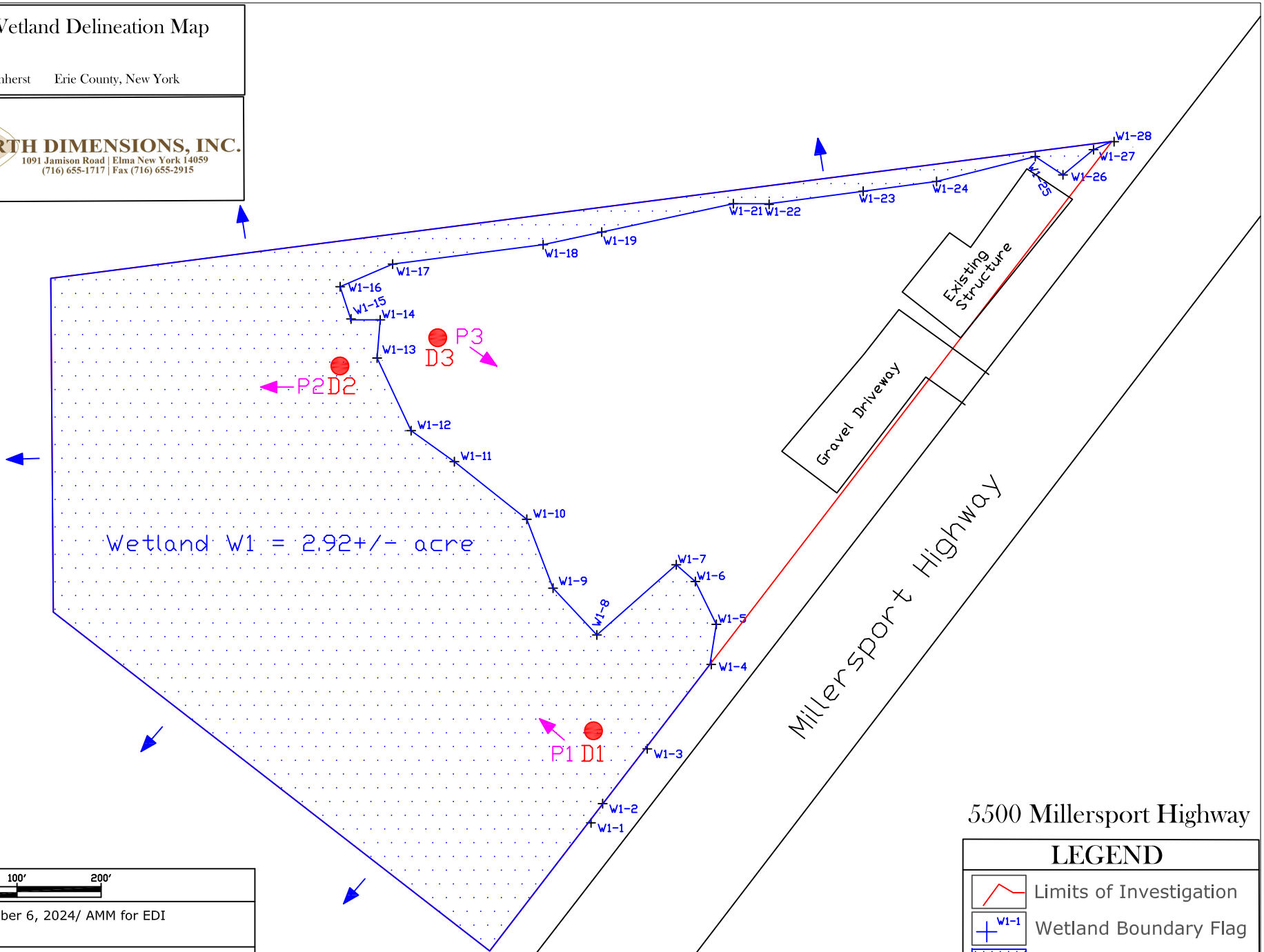
SUTTON architecture
"Design 2 Build"

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Figure 6 - Wetland Delineation Map

Town of Amherst Erie County, New York

EARTH DIMENSIONS, INC.
1091 Jamison Road | Elma New York 14059
(716) 655-1717 | Fax (716) 655-2915



5500 Millersport Highway

LEGEND

- Limits of Investigation
- W1-1 Wetland Boundary Flag
- Wetland Area
- P1 Photo Location
- D1 Data Point Location

Scale: 0 100′ 200′
Map Date: September 6, 2024/ AMM for EDI Revised:
Base Map Provided By: GPSMap 62s
File Name: Delineation map.dwg
EDI Project Code: W8A16a

Attachment: SP-2024-10 drawings 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Amherst

Town of Amherst Planning Department *Erie County, New York*

Brian J. Kulp
Supervisor

Daniel C. Howard,
Planning Direc

Daniel J. Ulatowski,
Assistant Planning D

AUG 29 2025 AM 7

SEQR
Negative Declaration

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency:	Town of Amherst Planning Board	**Project:**	SP-2024-10
Address:	5583 Main Street Williamsville, NY 14221 (716) 631-7051	**Date:**	August 21, 2025

This notice is issued pursuant to Part 617 of the implementing regulations pertaining to Article 8 (State Environmental Quality Review) of the Environmental Conservation Law and Chapter 104 (Environmental Quality Review) of Amherst Town Code, as amended.

The Lead Agency has determined that the proposed action described below will not have a significant adverse effect on the environment.

Title of Action: Site Plan Review

SEQR Status: Type 1 Action

Description of Action: The proposed project involves the redevelopment of a 4.98 acre site for a 14,110 sf warehouse building warehouse with shop areas and office space along with six (6) tenant garage spaces, including demolition of existing structure, associated stormwater facilities, utilities, grading, lighting, paving, and landscaping improvements.

Location: 5500 Millersport Highway, Amherst, Erie County

Petitioner: Stephen Property Holdings

Attachment: SP-2024-10 signed neg dec 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

AUG 29 2025 AMB

REASONS SUPPORTING THIS DETERMINATION

Based on information submitted by the applicant including a Full Environmental Assessment Form (EAF) - Parts I and II, (as amended) and a complete site plan application, a preliminary staff analysis was undertaken. Compared to the criteria listed in Section 617.7, all indications are that this action will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Engineering Department, Engineering Services Division on July 30, 2025 and Engineering Department, Sanitary Division January 9, 2025 reviewed the Grading, Drainage, Erosion Control and Utility Plans, and Engineer's Report submitted on July 22, 2025.

   The Stormwater Pollution Prevention Plan (SWPPP) submitted on July 22, 2025 was reviewed on August 5, 2025 by the Stormwater Management Officer. Based on its review of these documents, the Engineering Department has determined that the project has or will have met all applicable requirements. The project will not result in any potentially large impacts to air quality, ground or surface water quality, or result in an adverse increase in noise levels, solid waste production; or potential for erosion, flooding, leaching or drainage problems.

2. The project will not result in significant impact from the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. While project activities are outside the delineated wetland boundary, based on their review of the delineated wetland boundary, on July 21, 2025 the NYSDEC provided a Jurisdictional Determination. The NYSDEC also determined that wetland permitting will be imposed for any regulated disturbance within the 100-foot regulated wetland adjacent area. The Planning Department also reviewed a Landscape Plan submitted on August 6, 2025 and determined that it meets or exceeds Zoning Ordinance requirements for greenspace. The Landscape Plan has or will have met all Zoning Ordinance and Town requirements for landscaping.

3. The project is not expected to create any substantive conflict with the Town Comprehensive Plan. The Planning Department in their review of August 6, 2025, the Zoning Enforcement Officer in his review of August 6, 2025 have reviewed the application documents and Building Department in their review of March 31, 2025 has reviewed the application documents and the project has or will have met all International Building Code - 2018 and applicable Zoning Ordinance regulations.

4. The Project is within an area identified by the State as having potential archaeological or historical significance. The NYS Office of Parks, Recreation and Historic Preservation has reviewed the project and, as stated in their letter of September 19, 2025 determined that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by the Project.

Attachment: SP-2024-10 signed neg dec 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

AUG 29 2025 AME

5. The project will not impair the character or quality of important aesthetic resources or of existing community or neighborhood character. The project is located in the Commercial Services (CS) zoning district, where neighboring uses are commercial or vacant lands and zoned Commercial Services, General Business or Suburban Agriculture. Therefore, the Project is consistent with surrounding land use and will not result in a potential large impact to neighborhood character.

6. The proposed subject development will include warehousing, shop and office spaces which will not cause a major change in the use of either the quantity or type of energy.

7. The project will not create any hazard to human health. The Fire Chief's Association on August 12, 2025, has reviewed the project and has approved the site plan, as all requirements of this agency has or will have been met.

8. The project will not cause a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses. The proposed warehouse building with shop and office space will be consistent with the scale of surrounding land uses.

9. The function of the proposed warehouse, shop and office spaces will not significantly increase the number of people using the site over the level of use anticipated under the current zoning.

10. Review by the Town Traffic/Safety Board dated August 7, 2025, and NYSDOT dated April 25, 2025 indicate that significant negative traffic impacts are not expected to result from the proposed project.

11. A coordinated review of the project has been undertaken by Town Departments, in addition to those mentioned above, Highway on December 13, 2024, Assessor on December 4, 2024, Plumbing Division on March 26, 2025, and Right-of-Way Agent on July 11, 2025 along with outside agencies including the Erie County Department of Environment and Planning on January 8, 2025, New York State Department of Transportation on April 25, 2025, and New York State Department of Environmental Conservation on April 25, 2025 and July 21, 2025. These reviews have not identified any significant environmental issues and indicate that the proposal will not have a significant damaging impact on the environment.

12. Issues not specifically mentioned above and/or those not specifically reviewed were not raised by Town departments, outside agencies or the public and are not determined to cause significant negative environmental impacts.

Planning Board Approval
Moved by O'Rourke; Seconded by Raffaele; Ayes 6; Noes 0; Absent 1 (Penberthy)

Attachment: SP-2024-10 signed neg dec 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

AUG 29 2025 AM8:

Gary Palumbo, Associate Planner — Date: 8.26.2025

Michael J. Chmiel, Planning Board Chair — Date: 8/28/25

GP/ac
X:\Current_Planning\Files\Site Plans\2024\SP-2024-10_(5500_Millersport)_2024\SP-2024-10_neg dec_082125.doc
cc: Commissioner of Building
Town Engineer
Fire Chiefs'
Highway
Traffic/Safety
ECDEP
NYSDEC
NYSDOT
Stephen Property Holdings, 5500 Millersport Highway, East Amherst, NY 14051
Mike Berger, Sutton Architecture, 5409 Main Street, 2nd Floor, Williamsville, NY 14221

Attachment: SP-2024-10 signed neg dec 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-2024-10

PETITIONER

Stephen Property Holdings
5500 Millersport Highway
East Amherst, NY 14051

PROPERTY LOCATION

5500 Millersport Highway

AUG 29 2025 AM 8

WHEREAS, the Town of Amherst Planning Board on Thursday, August 21, 2025 held a public hearing on a Site Plan for a Mixed - Use development of warehousing, shop & office space and residential apartments, and

WHEREAS, the Planning Board reviewed the plans and specifications for the proposed project, and

WHEREAS, the Site Plan was referred to the Town's various review agencies, and

WHEREAS, in accordance with Section 8-7-9 of the Zoning Ordinance, the Planning Board finds that:

A. The proposed site plan is consistent with the development plan if one is required.

B. The proposed site plan is consistent with the purpose and specific requirements of the Zoning Ordinance and generally consistent with the policies of the Comprehensive Plan.

C. Adequate services and utilities will be available prior to occupancy.

D. The site plan is consistent with all other applicable laws.

E. Pursuant to Chapter 104 of Amherst Town Code, as amended, the Planning Board has determined that the requirements of SEQR are complete and that the subject proposal is not expected to have a significant adverse effect on the environment.

F. Review by the US Army Corps of Engineers under Section 404 of the Clean Water Act is required since hydric / potentially hydric soils have been identified on the parcel.

NOW THEREFORE BE IT FURTHER RESOLVED that in accordance with 6 NYCRR, Part 617 and Chapter 104 of Town Code, as amended, the Planning Board has issued a Negative Declaration attached hereto, and

NOW THEREFORE BE IT FURTHER RESOLOVED that the Planning Board, in accordance with Part II, Chapter 83, Part IX, Section 1-2 of Town Law waives sidewalks required along the Millersport Highway frontage of the parcel until required at the owner's expense at some future time by the Town Board, and

NOW THEREFORE BE IT FURTHER RESOLVED that the Planning Board, in accordance with Section 8-7 of the Zoning Ordinance approves Site Plan subject to the following conditions:

Attachment: SP-2024-10 signed resolution 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-2024-10

PETITIONER

Stephen Property Holdings

PROPERTY LOCATION

5500 Millersport Highway

AUG 29 2025 AM8

1. That the consideration of signs is specifically excluded from this approval as they require a separate review and approval by the Town.

2. That all dumpsters/trash containers and all mechanical equipment, utility structures, multiple meter boards, generators, and similar appurtenances, including those which are mounted on any part of a primary structure shall be appropriately screened with a fence, wall, and/or landscaping. Provide gate on dumpster enclosure that shall be closed whenever dumpster is not being serviced, enclosure shall be high enough to screen the dumpster(s) within.

3. That as-built record drawings, including location of utilities, be provided to the Engineering Department prior to issuance of a Certificate of Occupancy by the Building Department.

4. That the review comments provided by the Engineering Department – Sanitary Division in its letter of January 9, 2025 be addressed to the satisfaction of that division.

5. That the comments in the Stormwater Management Officer's letter dated August 5, 2025 be addressed to the satisfaction of the officer.

6. That the comments in the Engineering Department – Engineering Services Division letter dated July 30, 2025 be addressed to the satisfaction of that division.

7. That the review comments provided by the Town Attorney's Office (R.O.W. Agent) in his letter of August 5, 2025 be addressed to that Office's satisfaction.

8. That the review comments provided by the Planning Department and Zoning Enforcement Officer in the Planning Department letter of August 6, 2025 be addressed to the Department and Zoning Enforcement Officer's satisfaction.

The foregoing resolution was adopted by the Town of Amherst Planning Board, August 21, 2025; moved by Raffaele; seconded by Kahn; ayes 6; noes 0; absent 1 (Penberthy).

Harinder S Gill for
Michael J. Chmiel, Planning Board Chair

8/28/25
Date

GP/ac
X:\Current_Planning\Files\Site Plans\2024\SP-2024-10_(5500_Millersport)_2024\SP-2024-10_resolution_082125.doc
cc: Commissioner of Building
Town Engineer
Fire Chiefs
Traffic/Safety
Highway Superintendent
NYSDOT
ECDEP
NYSDEC
Approved Plan: Carmina Wood Design
Received: July 22, 2025
Stephen Property Holdings, 5500 Millersport Highway, East Amherst, NY 14051
Mike Berger, Sutton Architecture, 5409 Main Street, 2nd Floor, Williamsville, NY 14221

Attachment: SP-2024-10 signed resolution 082125 (29733 : SP-2024-10, 5500 Millersport Highway)

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

Meeting: 08/21/25 06:30 PM
Department: Planning
Category: Site Plan and Relief from Conditions of Site Plan
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 30598

TABLED

PLANNING BOARD ITEM (ID # 30598)

Proposed Office Building (Surgery Center), SP-2025-05

Property located at 1692 Maple Road
1692 Maple Road LLC, Petitioner

Proposed 9,000 sq. ft. single-story ambulatory surgery center with one vehicular access to Youngs Road and the related site improvements.

Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, represented the petitioner, explained the proposal and was available to answer questions from the Board.

In response to the Board's questions, Mr. Hopkins stated he will address the Board next month regarding the use of sprinklers.

No further comments were heard on this proposal. The hearing was closed.

Following discussion, Mr. Gill moved to adjourn the Negative Declaration. The motion was seconded by Mr. Raffaele carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the adjournment of the Negative Declaration, Mr. Gill moved to adjourn the request to allow the ZBA to take action on requested variances. The motion was seconded by Mr. Raffaele and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

ATTACHMENTS:

- SP-2025-05_application_082125 (PDF)
- SP-2025-05_drawings_082125 (PDF)
- Engineer's Report uploaded 8/18/2025 (PDF)
- Site Plan Set uploaded 8/18/2025 (PDF)

RESULT:	**ADJOURNED [UNANIMOUS]**	**Next: 9/25/2025 6:30 PM**
MOVER:	Harbinder Gill, Board Member	
SECONDER:	Joseph P. Raffaele Jr., Board Member	
AYES:	Chmiel, Davis, Gill, Kahn, Raffaele Jr., O'Rourke	
ABSENT:	Brittany Lee Penberthy	

RECEIVED
JUN 23 2025
TOWN OF AMHERST
PLANNING DEPT.

Site Plan Application with Exhibits "1" to "6"
Applicant: 1692 Maple Road LLC
c/o Sean Hopkins, Esq.
Location: 1692 Maple Road

TOWN OF AMHERST PLANNING DEPARTMENT

Application for Major Site Plan Review

For Official Use

File #: SP-2025-05 **Acreage** 0.96 **Fee $** 1,265

Address Verified by Assessor's Office _____ VERIFIED BY _____ DATE

Materials Received by Planning Department _____ RECEIVED BY 6-23-25 DATE

Fee Paid to Town Clerk _____ RECEIVED BY _____ DATE

Site Plan Review		**Fill In Applicable Fees**
1 acre or less	$1,250.00	1,250.00
Each additional acre or fraction thereof	$ 650.00/acre	
Amendments to Site Plans	$1,200.00	
Request for Relief of / Change to Conditions of Site Plan Approval	$1,200.00	
Request for Extension of Site Plan Approval	$ 450.00	
Stormwater Pollution Prevention Plan		
1 - 4.99 Acres	$ 500.00	
5 - 10 Acres	$ 750.00	
>10 Acres	$1,000.00	
Affidavit Fee for Public Hearing	$ 15.00	15.00
	TOTAL FEE:	$ 1,265.00

To Be Completed By Applicant

Petitioner:

Name: 1692 Maple Road LLC c/o Sean Hopkins, Esq.

Address: 35 California Road, Suite 100

Williamsville (city) NY (state) 14221 (zip code)

Phone: 716-510-4338 Fax: _____

E Mail: shopkins@hsmlegal.com

Authorization Letter of On Trac Systems LLC, the owner of the Project Site, dated November 25, 2024 attache as Exhibit "1".

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Representative (Architect, Engineer, Landscape Architect, Surveyor, or Attorney):

Name: Carmina Wood Design [Patrick Sheedy Jr, PE]

Address: 80 Silo City Row, Suite 100

Buffalo (city) NY (state) 14203 (zip code)

Phone: 716-842-3165 Fax:

E Mail: psheedy@carminawooddesign.com

Project Location (must be verified by Town Assessor's Office):

Address: 1692 Maple Road

SBL No(s): 56.19-1-1

Project Name: Proposed Medical Building

Project Description: See Exhibit "1" for description of the proposed project.

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

If this petition is an amendment to a previously approved site plan, please describe the proposed changes (include type and size of existing structures and number of existing parking spaces):

	existing	proposed	total
Gross Floor Area (non-residential):	0 sf	9,000 sf	9,000 sf
Gross Floor Area Residential:			
Number of Residential Units:			
Number of Parking Spaces:	0	32	32

Acreage of Parcel: 0.96 acres

(list each parcel separately)

Frontage on Public Roads: 110.0 ft. Maple Road

(list each road separately) 379.60 ft. Youngs Road

Existing Zoning District(s) Office Building District ("OB")

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

EXHIBIT 1

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Ambulatory Surgery Center Project		
Project Location (describe, and attach a general location map): 1692 Maple Road - Town of Amherst - Erie County		
Brief Description of Proposed Action (include purpose or need): The proposed project ("action") consists of the development of the the parcel at 1692 Maple Road ("Project Site") as a single-story ambulatory surgery center building with all related site improvements. The proposed action has been defined broadly to include all required discretionary approvals and permits needed from the governmental agencies including Site Plan Approval from the Planning Board. The project purpose is to develop the Project S as a state-of-the-art ambulatory surgery center, which is a medical office use per the recommended land use in Figure 6 of the Town's adopted Comprehensive Plan. The proposed project is an Unlisted Action pursuant to the State Environmental Quality Review Act ("SEQRA") and will not result any potentially significant adverse environmental impacts.		
Name of Applicant/Sponsor: 1692 Maple Road LLC c/o Sean Hopkins, Esq.	Telephone: 716.510-4338 E-Mail: shopkins@hsmlegal.com	
Address: 35 California Drive, Suite 100		
City/PO: Williamsville	State: NY	Zip Code: 14221
Project Contact (if not same as sponsor; give name and title/role): Same as Above.	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Ontrac Systems LLC	Telephone: E-Mail:	
Address: PO Box 103		
City/PO: Buffalo	State: NY	Zip Code: 14217

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☐Yes ☑No		
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Site Plan Approval	June 23, 2025
c. City, Town or Village Zoning Board of Appeals ☑Yes ☐No	Zoning Board of Appeals - Area Variances	To be Determined
d. Other local agencies ☑Yes ☐No	Building Department - Building Permit and Highway Dept. - Curb Cut Permit	To be Determined
e. County agencies ☑Yes ☐No	ECWA - RPZ	To be Determined
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	NYSDOH - Certificate of Need	To be Determined
h. Federal agencies ☐Yes ☑No		

i. Coastal Resources.
- *i.* Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No
- *ii.* Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No
- *iii.* Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☐No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☑Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Office Building District ("OB")

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Williamsville Central School District

b. What police or other public protection forces serve the project site?
Town of Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?
Volunteer Fire Department

d. What parks serve the project site?
There are various parks in the vicinity of the Project Site.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Commercial project consisting of an ambulatory surgery center.

b. a. Total acreage of the site of the proposed action? 0.96 acres
b. Total acreage to be physically disturbed? 0.85 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0.96 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☐ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☐ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☐ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase ma determine timing or duration of future phases: _____

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

f. Does the project include new residential uses? ☐Yes☐

If Yes, show numbers of units propo

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑Yes☐No

If Yes,

i. Total number of structures 1

ii. Dimensions (in feet) of largest proposed structure: 16 height; 90 width; and 100 length

iii. Approximate extent of building space to be heated or cooled: 9,000 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑Yes☐No

If Yes,

i. Purpose of the impoundment: Stormwater detention

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑Other specify: On-site stormwater runoff

iii. If other than water, identify the type of impounded/contained liquids and their source. Not Applicable

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: 0.7 acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): Stormwater pond

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐Yes☐No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes☐No
If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes☐No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes☐No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, alteration of channels, banks and shoreli Indicate extent of activities, alterations and a ions in square feet or acres.

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No
If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No
If Yes:

- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use, or create a new demand for water? ☑Yes ☐No
If Yes:

i. Total anticipated water usage/demand per day: 825 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑Yes ☐No
If Yes:

- Name of district or service area: Erie County Water Authority
- Does the existing public water supply have capacity to serve the proposal? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No
- Do existing lines serve the project site? ☑Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☐No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☐No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑Yes ☐No
If Yes:

i. Total anticipated liquid waste generation per day: 750 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
sanitary wastewater

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No
If Yes:

- Name of wastewater treatment plant to be used: Town of Amherst WWTP
- Name of district: Town of Amherst
- Does the existing wastewater treatment plant have capacity to serve the project? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☐ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☐ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☐ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☐ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☐ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes

2.a

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☐No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☐No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☑Yes ☐No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: Minimal amount

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): Electric Utility provider

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7:00 to 7:00
- Saturday: 7:00 to 5:00
- Sunday: Not Applicable
- Holidays: Not Applicable

ii. During Operations:

- Monday - Friday: 7:00 - 7:00
- Saturday: To be Determined
- Sunday: Not Applicable
- Holidays: Not Applicable

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m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

i. Provide details including sources, time of day and duration:

Temporary and unavoidable storm term noise impacts resulting from the use of construction equipment during construction activities.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: _____

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

The project will include dark-sky compliant per the requirements of the Zoning Code.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☐ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☐ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____
- Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____
- Operation: _____

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes

2.a

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☑ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

Mixture of uses including offices, apartments for lease and single-family homes.

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.0	0.5	+ 0.5
• Forested	0.35	0.1	- 0.25
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0.0	0.0	0.0
• Agricultural (includes active orchards, field, greenhouse etc.)	0.0	0.0	0.0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0.0	0.0	0.0
• Wetlands (freshwater or tidal)	0.0	0.0	0.0
• Non-vegetated (bare rock, earth or fill)	0.0	0.0	0.0
• Other Describe: lawn area/landscaping/greenspace	0.61	0.36	- 0.25

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☐ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☑ Yes ☐ No
If Yes,
i. Identify Facilities:
St. Gregory the Great, Maple East Elementary Schoo;, Millard Fillmore Hospital, Elderwood Village

e. Does the project site contain an existing dam? ☐ Yes ☐ No
If Yes:
i. Dimensions of the dam and impoundment:
- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☐ No
If Yes:
i. Has the facility been formally closed? ☐ Yes ☐ No
- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☐ No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☐ No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No
☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____
☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No
If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? 7 + feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☐ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site: Cosad loamy fine sand 100 %

d. What is the average depth to the water table on the project site? Average: 1 feet

e. Drainage status of project site soils:
☐ Well Drained: ____% of site
☐ Moderately Well Drained: ____% of site
☑ Poorly Drained 100 % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: ____% of site
☐ 15% or greater: ____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name Brush Creek (Town of Amherst Ditch #4) Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

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m. Identify the predominant wildlife species that occupy or use the project site:
Typical suburban species

n. Does the project site contain a designated significant natural community? ☐Yes ☑No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐Yes ☑No
If Yes:
i. Species and listing (endangered or threatened): _____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐Yes ☑No
If Yes:
i. Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐Yes ☐No
If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐Yes ☑No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐Yes ☐No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐Yes ☑No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐Yes ☑No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

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e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district ☐ Yes
which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?
If Yes:
i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District
ii. Name: _____
iii. Brief description of attributes on which listing is based:
_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☐ No
If Yes:
i. Describe possible resource(s): _____
ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☐ No
If Yes:
i. Identify resource: _____
ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____
iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No
If Yes:
i. Identify the name of the river and its designation: _____
ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information
Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification
I certify that the information provided is true to the best of my knowledge.

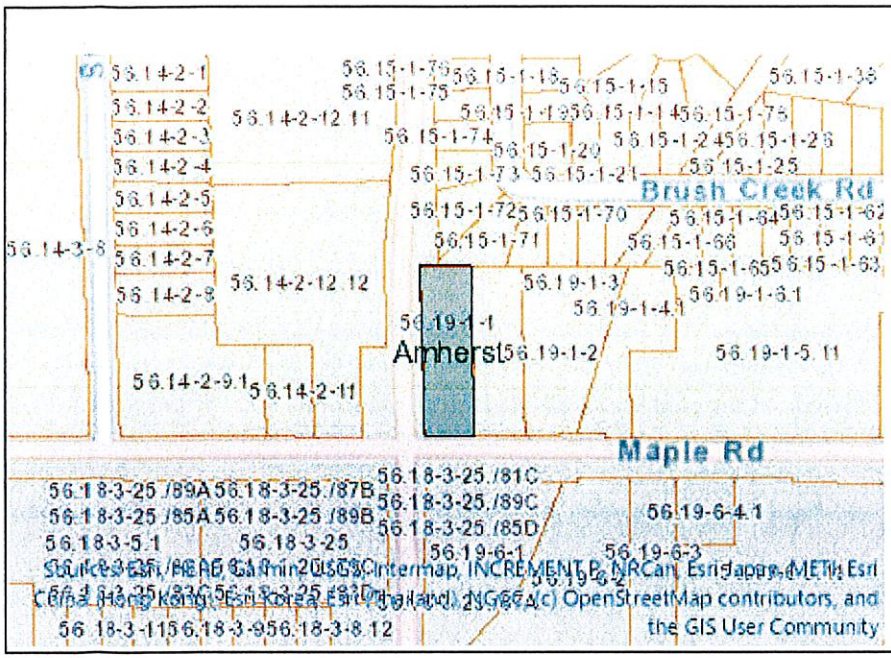
Applicant/Sponsor Name 1692 Maple Road Date June 23, 2025

Signature _____ Title Attorney for Project Sponsor

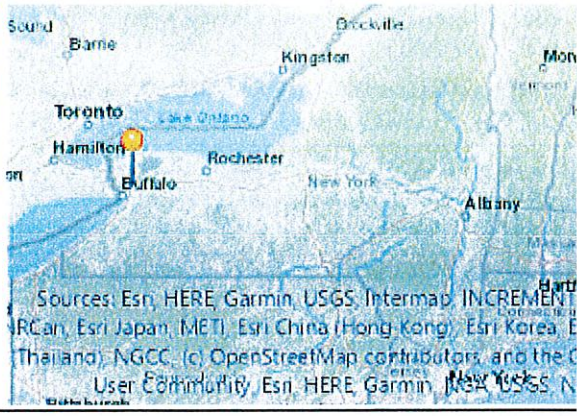
A copy of the Wetland Investigation Letter of Scott Livingstone dated March 6, 2025 is provided at Attachment "A" and a copy of the No Impact Determination Letter issued by the NYS Office of Parks, Recreation and Historic Preservation dated December 12, 2024 is provided at Attachment "B".

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

PRINT FORM



Disclaimer: The EAF Mapper is a screening tool intended to assis project sponsors and reviewing agencies in preparing an environment assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Althoug the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in orde to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

TOWN OF AMHERST ATTACHMEN
State Environmental Quality Review
ENVIRONMENTAL ASSESSMENT FORM

1. For each applicable category of proposed new structures, including additions to existing structures, provide the following information for all soil types on the project site (*according to Soil Survey of Erie County, NY; Table 11, Building Site Development, pp 294-305):*

Soil Name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Cosad loamy fine sand	✓				

2. If the Soil survey indicates either "severe" or "moderate" suitability for the proposed types of construction, a geotechnical and hydrological analysis based on one test per 3.5 acres of project area must be provided (per Town Board resolution, 3/17/03, amended 6/16/03).

_____ Geotechnical report attached ✓ Not applicable

3. Is your property located: On Youngs Road between Dodge and Klein Roads? ☐ Yes ☑ No
On Wehrle Dr. between Spindrift Dr. and Oakwood Rd? ☐ Yes ☑ No

If so, the property may be within an area of the Town that is affected by a moratorium on connections to the sanitary sewer system.

4. Are there alternative locations on the site for this project? ☐ Yes ☑ No

5. Location and size of real property owned by petitioner within one (1) mile of subject proposal:
1692 Maple Road - 0.96 ac

6. Are you aware of current or future plans or intentions by others in the Town of Amherst to develop property within 1000± ft. of the present project request: ☑ Yes ☐ No

Describe Proposed mixed use project at 1720-1760 Maple Road

(Potential environmental impacts from adjacent or nearby projects undergoing the approval process will receive a coordinated environmental review to determine cumulative effects on common receivers (e.g. traffic and drainage corridors) and other relevant environmental concerns.)

7. Maximum number of vehicular trips to be generated per hour upon completion of project 12
Source: ITE Trip Generator

8. Will blasting occur during construction? ☐ Yes ☑ No

9. Does the project propose to connect and be tributary to the public sanitary sewer system? ☑ Yes ☐ No

10. Proposed net additional gallons per day (gpd) of sanitary sewer discharge upon completion of project:

750 average flow 3,000 peak flow.

(Please note that average flows of 2,500 gpd or greater will require an Engineer's Report that includes a detailed downstream sewer capacity analysis and the identification of and commitment to required I/I offset work during peak wastewater flow conditions.)

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

ATTACHMENT A OF PART 1 OF FULL ENVIRONMENTAL ASSESSMENT FORM

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

LaBella
Powered by partnership.

The New Home of
Earth Dimensions, Inc.

March 6, 2025

Dr. Michael Cicchetti
Buffalo Spine and Sports Medicine
100 College Parkway, Suite 100
Williamsville, NY 14221

Re: Preliminary Wetland Investigation - ±0.92 acre
1692 Maple Road (SBL# 56.19-1-1)
Town of Amherst, Erie County, New York

Dear Dr. Cicchetti:

Labella has completed a preliminary wetland investigation at the above referenced site for the purpose of identifying potential regulated wetlands and waterways. The site investigation was conducted on March 6, 2025. The site investigation is depicted on the attached exhibit from the Erie County On-Line Mapping Application. Labella did not identify any wetland as defined by the U.S. Army Corps of Engineers (USACE) wetland delineation manuals within the proposed project site.

The New York State Department of Environmental Conservation (NYSDEC) On-line Resource Mapper (attached) does not indicate any potential wetland areas within or adjacent to the site. Based on the site investigation and the revised Part 664 regulations which went into effect on January 1, 2025, it is LaBella's professional opinion that there are no Article 24 wetlands within or adjacent to the site.

Based on this site investigation, it is our professional opinion that the proposed project may move forward without the need for a Section 404 permit from USACE or Article 24 permit from NYSDEC. If you have any questions, please contact our office at (716) 655-1717 or email slivingstone@labellapc.com.

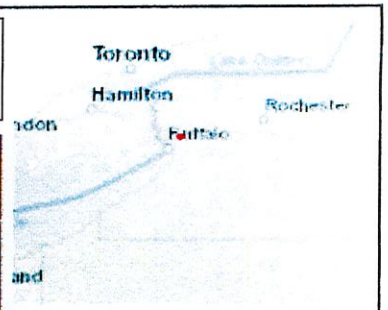
Respectfully submitted,
LaBella Associates

Scott J. Livingstone
Program Manager

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Erie County On-Line Mapping Application





Legend

Parcels

0 0.02 0.0 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

ERIE COUNTY
DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF GIS

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

1: 1,128

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Environmental Resource Mapper



March 6, 2025

1:2,257

0 0.02 0.04 0.08 mi

0 0.03 0.07 0.13 km

Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

ATTACHMENT B OF PART 1 OF FULL ENVIRONMENTAL ASSESSMENT FORM

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Amherst

Town of Amherst Planning Department *Erie County, New York*

Brian J. Ku
Supervisc

Daniel C. Howa C
Planning Dir

Daniel J. Ulatows C
Assistant Planning ct

SEQR

NEGATIVE DECLARATION

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency:	Town of Amherst Town Board	**Project**:	Z-2024-04
Address:	5583 Main Street Williamsville, NY 14221 (716) 631-7051	**Date**:	April 28, 2025

This notice is issued pursuant to Part 617 and Local Law #3-82, as amended, of the implementing regulations pertaining to Article 8 (State Environmental Quality Review) of the Environmental Conservation Law.

The Lead Agency has determined that the proposed action described below will not have a significant adverse effect on the environment.

Title of Action: Rezoning Request.

SEQR Status: Unlisted action.

Description of Action: Rezoning of 0.96± acres of land from Residential District Three (R-3) to Office Building District (OB) to allow for the potential future use of the site for a medical office building.

Location: 1692 Maple Road, Town of Amherst, Erie County, New York

Petitioner: Michael & Corine Cicchetti

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Reasons Supporting This Determination

Based on information submitted by the applicant, including a Short Environmental Assessment Form (EAF) - Part 1, a complete rezoning application, and concept plan, a preliminary staff analysis was undertaken. Based on the results of the EAF Part 2 and compared to the criteria listed in Section 617.7, all indications are that the proposed rezoning of 0.41± acres of land from Residential District Three (R-3) to Office Building District (OB) for a proposed medical office building will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Town Engineering Department will review any application for development of the parcel and require that all infrastructure to support the development will be available and adequate.

2. The project will not result in the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. A Landscape/Tree preservation Plan shall be required of the applicant upon submittal of a site plan application for development of the site at which stage all landscape requirements of the Zoning Ordinance will be met.

3. The project is not expected to create any material conflict with the Town Comprehensive Plan. The project will comply with all regulations of the Town Zoning Ordinance before final site plan approval is granted. The Town Building Department on February 26, 2024 and Zoning Enforcement Officer on February 13, 2025 reviewed the application and EAF submitted on December 4, 2024, and have no objection or comments on the proposed rezoning.

4. The project is within an area identified by the State as potentially containing significant cultural or archeological resources. The New York State Office of Parks, Recreation, Historic Preservation on December 12, 2024 has reviewed the project and determined that there will be no impact on these resources.

5. The project will not impair the character or quality of important aesthetic resources or of existing community or neighborhood character. The subject request is for rezoning from Residential District Three (R-3) to Office Building District (OB). Neighboring uses are Multi-Family Residential District Four-A (MFR-4A), Multi-Family Residential District Five (MFR-5), and Professional Offices and zoned Office Building District (OB); therefore, the project is consistent with surrounding land use.

6. The proposed rezoning to Office Building District (OB) for a proposed medical office building will not cause a major change in the use of either the quantity or type of energy.

7. The rezoning to Office Building District (OB) for a proposed medical office building will not create any hazard to human health. The Fire Chief's Association on February 10, 2025, has reviewed the rezoning request and supporting documentation and has no objection to or adverse comments on the proposed rezoning.

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

8. The rezoning to Office Building District (OB) will not cause a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses. The proposed medical office building will be consistent with the scale of surrounding land uses.

9. The rezoning to Office Building District (OB) for the proposed medical office building will increase the number of people using the site over its previous level of use as an undeveloped lot.

10. Review by the Town Traffic/Safety Board on December 23, 2024, indicates that significant negative traffic impacts are not expected to result from the proposed project.

11. Coordinated reviews of the project have been undertaken by Town Departments including Building on December 13, 2024, Traffic/Safety Board on December 19, 2024, Assessor on December 6, 2024, Fire Chiefs' Association on February 10, 2025, Zoning Enforcement Officer on February 13, 2025, and Right-of-Way Agent on December 19, 2024 along with outside agencies including Erie County Department of Environment & Planning on January 16, 2025, and New York State Office of Parks Recreation and Historic Preservation on December 12, 2024. These reviews have not identified any significant environmental issues and indicate that the proposal will not have a significant damaging impact on the environment.

12. Issues not specifically mentioned above and/or those not specifically reviewed were not raised by Town departments, outside agencies or the public and are not determined to be causing significant negative environmental impacts.

James Quinn, Assistant Planner — 5-5-25 date

Brian J. Kulpa, Supervisor — 5/6/25 date

JQ/ac
X:\Current_Planning\Files\Rezonings\2024\Z-2024-04_(1692_Maple _Rd)_2024\Z-2024-04_TB_Neg_Dec_04028025.docx
cc: Amherst Town Clerk
Amherst Building Department
ECDEP
Michael & Corine Cicchetti c/o Sean Hopkins, Esq. 35 California Dr., Suite 100, Williamsville, NY 14221

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

EXHIBIT 2

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

AUTHORIZATION

The undersigned, ONTRAC SYSTEMS LLC ("Seller"), the record owner of real property located in the Town of Amherst, New York located at **1692 Maple Road [SBL No. 56.19-1-1]** (the "Project Site") and MICHAEL CICCHETTI and CORINE CICCHETTI (collectively, the "Purchasers") have entered into a Purchase and Sale Agreement pursuant to which Seller agreed to sell the Project Site to Purchasers, and Purchasers agreed to purchase the Project Site from Seller, contingent upon Purchasers' obtaining certain permits, approvals, and authorizations from the Town of Amherst (the "Town") and other governmental agencies and authorities having jurisdiction.

Accordingly, Seller hereby authorizes Purchasers and their counsel, the law firm of HOPKINS SORGI & MCCARTHY PLLC, to seek all required permits, approvals, and authorizations from the Town and other involved governmental agencies and authorities having jurisdiction relative to Purchasers' intended use of the Project Site as a medical office building, including, but not limited, to an amendment of the zoning classification of the Project Site from Residential District Three District ("R-3") to Office Building District ("OB") by the Town Board, site plan approval by the Town Planning Board, and area variances from the Town Zoning Board of Appeals.

Photocopies, facsimile, and electronic copies of this Authorization shall have the same force and effect as originals.

Dated: November 25, 2024

Ontrac Systems LLC

By: 

Daniel J. Dirrigl, Manager

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

EXHIBIT 3

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

© CARMINA WOOD DESIGN

Site Plan

Proposed Medical Building
1692 Maple Road
Amherst, NY

CARMINA WOOD
D
Buffalo | L

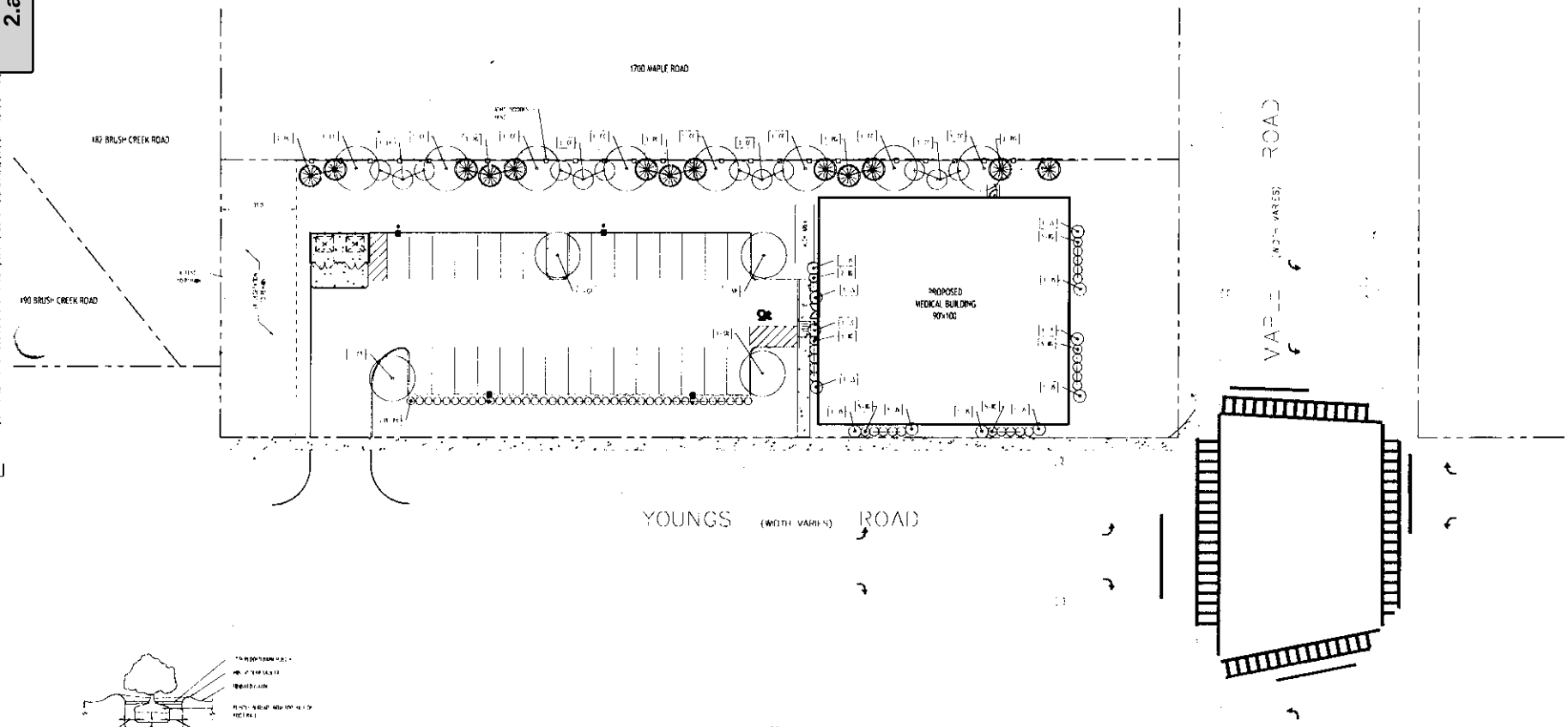
DRAWING NAME:
Site Plan

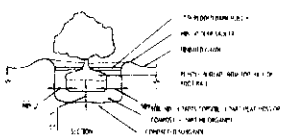
DRAWING NO.
C-100

Project No: 24-4153

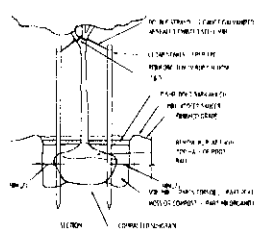
EXHIBIT 4

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)





SHRUB PLANTING DETAIL



TREE PLANTING DETAIL

Landscape Plan

SCALE 1:400

PLANTING SCHEDULE

REF	QTY	BOTANICAL NAME	COMMON NAME	MIN SIZE	REMARKS
		DECIDUOUS TREES			
CC	11	LAGERSTOEMIA CAROLINIANA	AMERICAN HORNBEAM	2 1/2 - 3" CAL	PARK
GT	7	GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE'	DRAWS THORNLESS HONEYLOCUST	2 1/2 - 3" CAL	PARK HT OF 10 X 8 W 6
		MANY-FORMATIONAL TREES			
SR	2	SYRINGA RETICULATA	NONE SEAL LILAC	1 3/4" - 2" CAL	PARK
		EVERGREEN TREES			
CI	12	ABIES CONCOLOR	CONCOLOR FIR	5 - 6 MIN HT	PARK FULL TO GROUND
PG	13	PICEA GLAUCA	WHITE SPRUCE	5 - 6 MIN HT	PARK FULL TO GROUND
		SHRUBS			
RV	14	RHUS + GREEN MOUNTAIN	GREEN MOUNTAIN ROWWOOD	24" HIGH MIN	NO. 3 CONT
IG	27	ILEX GLABRA COMPACTA	INKBERRY HOLLY COMPACT	24" HIGH MIN	PARK HT 4 X 4
JS	12	JUNIPERUS SCOPULARUM 'SKYROCKET'	SKYROCKET JUNIPER	6 IN FULL	PARK HT 18 X 2 4

NOTES
1. EXTENT OF PLANTING AREA IS DEFINED FROM THE BOTTOM OF LEAFS.
2. DRAWING IS CARRIED SUBJECT TO PLAN DIMENSIONS AS FIELD OF ARCHITECTURE. TO BE ON FOR NEW ENGINEERING TO CROSS-CHECK.
3. ALL PLANTING BEDS TO BE PROTECTED BY MINIMUM 3 INCH TO DEPTH OF 3 INCH SHREDDED HARDWOOD BARK MULCH (ONLY FROM SPRUCE CALLED ON PLAN).

PLANT NOTES

NOTE: ALL DIMENSIONS ARE DEPENDENT ON THE DRAWING PLANNED ON THE SITE AND CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

10 0 20 40'

© CARMINA WOOD DESIGN

CARMINAWOOD

Proposed Medical Building
1692 Maple Road
Amherst, NY

REVISIONS

No.	Date	Description	Date

DRAWING NAME:
Landscape Plan

Date
Drawn By
Scale

DRAWING NO.
L-100

Project No: 24-4153

EXHIBIT 5

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Amherst
Town of Amherst Planning Department
Erie County, New York

Brian J. Ki
Supervis

Daniel C. Howa
Planning Di

Daniel J. Ulatows
Assistant Planning

SEQR

NEGATIVE DECLARATION

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency:	Town of Amherst Town Board	**Project**:	Z-2024-04
Address:	5583 Main Street Williamsville, NY 14221 (716) 631-7051	**Date**:	April 28, 2025

This notice is issued pursuant to Part 617 and Local Law #3-82, as amended, of the implementing regulations pertaining to Article 8 (State Environmental Quality Review) of the Environmental Conservation Law.

The Lead Agency has determined that the proposed action described below will not have a significant adverse effect on the environment.

Title of Action: Rezoning Request.

SEQR Status: Unlisted action.

Description of Action: Rezoning of 0.96± acres of land from Residential District Three (R-3) to Office Building District (OB) to allow for the potential future use of the site for a medical office building.

Location: 1692 Maple Road, Town of Amherst, Erie County, New York

Petitioner: Michael & Corine Cicchetti

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Reasons Supporting This Determination

Based on information submitted by the applicant, including a Short Environmental Assessment Form (EAF) - Part 1, a complete rezoning application, and concept plan, a preliminary staff analysis was undertaken. Based on the results of the EAF Part 2 and compared to the criteria listed in Section 617.7, all indications are that the proposed rezoning of 0.41± acres of land from Residential District Three (R-3) to Office Building District (OB) for a proposed medical office building will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Town Engineering Department will review any application for development of the parcel and require that all infrastructure to support the development will be available and adequate.
2. The project will not result in the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. A Landscape/Tree preservation Plan shall be required of the applicant upon submittal of a site plan application for development of the site at which stage all landscape requirements of the Zoning Ordinance will be met.
3. The project is not expected to create any material conflict with the Town Comprehensive Plan. The project will comply with all regulations of the Town Zoning Ordinance before final site plan approval is granted. The Town Building Department on February 26, 2024 and Zoning Enforcement Officer on February 13, 2025 reviewed the application and EAF submitted on December 4, 2024, and have no objection or comments on the proposed rezoning.
4. The project is within an area identified by the State as potentially containing significant cultural or archeological resources. The New York State Office of Parks, Recreation, Historic Preservation on December 12, 2024 has reviewed the project and determined that there will be no impact on these resources.
5. The project will not impair the character or quality of important aesthetic resources or of existing community or neighborhood character. The subject request is for rezoning from Residential District Three (R-3) to Office Building District (OB). Neighboring uses are Multi-Family Residential District Four-A (MFR-4A), Multi-Family Residential District Five (MFR-5), and Professional Offices and zoned Office Building District (OB); therefore, the project is consistent with surrounding land use.
6. The proposed rezoning to Office Building District (OB) for a proposed medical office building will not cause a major change in the use of either the quantity or type of energy.
7. The rezoning to Office Building District (OB) for a proposed medical office building will not create any hazard to human health. The Fire Chief's Association on February 10, 2025, has reviewed the rezoning request and supporting documentation and has no objection to or adverse comments on the proposed rezoning.

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

8. The rezoning to Office Building District (OB) will not cause a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses. The proposed medical office building will be consistent with the scale of surrounding land uses.

9. The rezoning to Office Building District (OB) for the proposed medical office building will increase the number of people using the site over its previous level of use as an undeveloped lot.

10. Review by the Town Traffic/Safety Board on December 23, 2024, indicates that significant negative traffic impacts are not expected to result from the proposed project.

11. Coordinated reviews of the project have been undertaken by Town Departments including Building on December 13, 2024, Traffic/Safety Board on December 19, 2024, Assessor on December 6, 2024, Fire Chiefs' Association on February 10, 2025, Zoning Enforcement Officer on February 13, 2025, and Right-of-Way Agent on December 19, 2024 along with outside agencies including Erie County Department of Environment & Planning on January 16, 2025, and New York State Office of Parks Recreation and Historic Preservation on December 12, 2024. These reviews have not identified any significant environmental issues and indicate that the proposal will not have a significant damaging impact on the environment.

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James Quinn, Assistant Planner — 5-5-25 date

Brian J. Kulpa, Supervisor — 5/6/25 date

JQ/ac
X:\Current_Planning\Files\Rezonings\2024\Z-2024-04_(1692_Maple _Rd)_2024\Z-2024-04_TB_Neg_Dec_04028025.docx
cc: Amherst Town Clerk
Amherst Building Department
ECDEP
Michael & Corine Cicchetti c/o Sean Hopkins, Esq. 35 California Dr., Suite 100, Williamsville, NY 14221

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

EXHIBIT 6

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Amherst Town Board
5583 Main Street
Williamsville, NY 14221
www.amherst.ny.us

Francina J. Spoth
Town Clerk

Meeting: 04/28/25 07:00 PM
Department: Town Clerk
Initiated by: **Timothy Koller**
Co-Sponsored by:

DOC ID: 30250 **RESOLUTION 2025-343** **ROLL CALL VOTE (ADOPTED)**

Adoption of Local Law to Amend the Zoning Map 1692 Maple Road, Z-2024-04

RESOLVED, that pursuant to 6NYCRR Part 617 (SEQR) and Town Code Section 104, as amended, that the requirements of SEQR are complete, and be it further

RESOLVED, that pursuant to NYS Town Law Sec.272-a, the Town Board concurs with the findings of the Planning Board as stated in their resolution of February 20, 2025 that the proposed rezoning of 0.96± acres of land from Residential District Three (R-3) to Office Building District (OB) at 1692 Maple Road is consistent with the adopted Bicentennial Comprehensive Plan, as amended, and be it

RESOLVED, that in accordance with Section 203-8-3 of the Town Code (Zoning), the Town Board adopts Local Law (#_____) to amend the Town Zoning map subject to the following conditions, and be it further

. A thirty-foot (30') wide Permanent Open Space area shall be provided consisting of the northernmost portion of the project site for the purpose of providing a natural buffer for the benefit of the residential parcels directly north of the Project Site.

2. There shall not be any mechanical equipment including but not limited to air conditioning units, transformers, etc. located directly east of the principal building on the project site.

3. High Impact Screening as defined in Section 7-2-4B of the Zoning Ordinance shall be provided along the eastern and northern boundaries of the Project Site. The Planning Board shall verify compliance with this Condition during its review of a Site Plan Application for the development of the project site.

4. Conditions 1 and 2 shall be subject to a Declaration of Restrictions to be recorded at the Erie County Clerk's Office. The content and form of the Declaration of Restrictions shall be reviewed and approved by the Town Attorney's Office and the Zoning Enforcement Officer prior to recording at the Erie County Clerk's Office.

RESOLVED, that pursuant to chapter 120, Section 120-4 of the Town of Amherst code (Highways-Controlled Access), this Town Board grants one driveway access onto Youngs Road in lieu of having a vehicular access to Maple Road for the subject site.

4/7/2025
A motion to open the public hearing was made by Supervisor Kulpa, seconded by Councilmember Berger and unanimously approved 5-0. The public hearing was opened at 7:31 PM.

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Attorney Sean Hopkins presented.

The following residents spoke:
Don Smith, 201 N Long St
Dennis Hoban, 216 California Dr
John Trabert, 234 Mt Vernon Rd

There were no further speakers from the public, therefore Supervisor Kulpa moved to close the hearing and set a decision date for the April 28th Town Board meeting, seconded by Councilmember Berger and unanimously approved 5-0. The public hearing was closed at 7:58 PM.

4/28/2025
A motion to approve was made by Supervisor Kulpa, seconded by Councilmember Berger and unanimously approved via Roll Call vote 5-0.

RESULT:	**ROLL CALL VOTE (ADOPTED) [UNANIMOUS]**
MOVER:	Brian J. Kulpa, Supervisor
SECONDER:	Jacqualine Berger, Councilmember
AYES:	Kulpa, Lavin, Berger, Szukala, Marinucci

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Full Environmental Assessment Form
Part 1 - Project and Setting

Amended Part 1 of Full Environmental Assessment Form with Attachments "A" to "C"
Date: July 29, 2025

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Ambulatory Surgery Center Project		
Project Location (describe, and attach a general location map): 1692 Maple Road - Town of Amherst - Erie County		
Brief Description of Proposed Action (include purpose or need): The proposed project ("action") consists of the development of the the parcel at 1692 Maple Road ("Project Site") as a single-story ambulatory surgery center building with all related site improvements. The proposed action has been defined broadly to include all required discretionary approvals and permits needed from the governmental agencies including Site Plan Approval from the Planning Board. The project purpose is to develop the Project Site as a state-of-the-art ambulatory surgery center, which is a medical office use per the recommended land use in Figure 6 of the Town's adopted Comprehensive Plan. The proposed project is an Unlisted Action pursuant to the State Environmental Quality Review Act ("SEQRA") and will not result in any potentially significant adverse environmental impacts. The following documents are attached as Attachments "A" to "C": Attachment A: Negative Declaration issued by the Town Board on April 28, 2025; Attachment B: Wetland Investigation Letter issued by Scott Livingstone dated March 6, 2025 and Attachment C: No Impact Determination Letter issued by the NYS Office of Parks, Recreation and Historic Preservation dated December 20, 2024.		
Name of Applicant/Sponsor: 1692 Maple Road LLC c/o Sean Hopkins, Esq.	Telephone: 716.510-4338 E-Mail: shopkins@hsmlegal.com	
Address: 35 California Drive, Suite 100		
City/PO: Williamsville	State: NY	Zip Code: 14221
Project Contact (if not same as sponsor; give name and title/role): Same as Above.	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Ontrac Systems LLC	Telephone: E-Mail:	
Address: PO Box 103		
City/PO: Buffalo	State: NY	Zip Code: 14217

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☐Yes ☑No		
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Site Plan Approval	June 23, 2025
c. City, Town or Village Zoning Board of Appeals ☑Yes ☐No	Zoning Board of Appeals - Area Variances	July 14, 2025
d. Other local agencies ☑Yes ☐No	Building Department - Building Permit and Highway Dept. - Curb Cut Permit	To be Determined
e. County agencies ☑Yes ☐No	ECWA - RPZ and ECDPW - Highway Work Permit	To be Determined
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	NYSDOH - Certificate of Need	To be Determined
h. Federal agencies ☐Yes ☑No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☑Yes ☐No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☑Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Office Building District ("OB")

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Williamsville Central School District

b. What police or other public protection forces serve the project site?
Town of Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?
Volunteer Fire Department

d. What parks serve the project site?
There are various parks in the vicinity of the Project Site.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Commercial project consisting of an ambulatory surgery center.

b. a. Total acreage of the site of the proposed action? 0.96 acres
b. Total acreage to be physically disturbed? 0.85 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0.96 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

2.a

f. Does the project include new residential uses? ☐Yes ☑No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑Yes ☐No

If Yes,

i. Total number of structures 1

ii. Dimensions (in feet) of largest proposed structure: 16 height; 90 width; and 100 length

iii. Approximate extent of building space to be heated or cooled: 9,000 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑Yes ☐No

If Yes,

i. Purpose of the impoundment: Stormwater detention

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑Other specify: On-site stormwater runoff

iii. If other than water, identify the type of impounded/contained liquids and their source. Not Applicable

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: 0.7 acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): Stormwater pond

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐Yes ☑No

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No

If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☐No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes ☑No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

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ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☐ No
If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐ No
If Yes:

- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use, or create a new demand for water? ☑ Yes ☐ No
If Yes:

i. Total anticipated water usage/demand per day: 825 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑ Yes ☐ No
If Yes:

- Name of district or service area: Erie County Water Authority
- Does the existing public water supply have capacity to serve the proposal? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No
- Do existing lines serve the project site? ☑ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☑ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☑ No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 750 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
sanitary wastewater

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑ Yes ☐ No
If Yes:

- Name of wastewater treatment plant to be used: Town of Amherst WWTP
- Name of district: Town of Amherst
- Does the existing wastewater treatment plant have capacity to serve the project? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No

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- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☑ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☐ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☑ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

_____

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

_____

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

_____

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

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h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☑Yes ☐No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: Minimal amount

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): Electric Utility provider

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7:00 to 7:00
- Saturday: 7:00 to 5:00
- Sunday: Not Applicable
- Holidays: Not Applicable

ii. During Operations:

- Monday - Friday: 7:00 - 7:00
- Saturday: To be Determined
- Sunday: Not Applicable
- Holidays: Not Applicable

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m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

i. Provide details including sources, time of day and duration:

Temporary and unavoidable storm term noise impacts resulting from the use of construction equipment during construction activities.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe:

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

The project will include dark-sky compliant per the requirements of the Zoning Code.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction:
- Operation:

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction:
- Operation:

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s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☑ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

Mixture of uses including offices, apartments for lease and single-family homes.

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.0	0.5	+ 0.5
• Forested	0.35	0.1	- 0.25
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0.0	0.0	0.0
• Agricultural (includes active orchards, field, greenhouse etc.)	0.0	0.0	0.0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0.0	0.0	0.0
• Wetlands (freshwater or tidal)	0.0	0.0	0.0
• Non-vegetated (bare rock, earth or fill)	0.0	0.0	0.0
• Other Describe: lawn area/landscaping/greenspace	0.61	0.36	- 0.25

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c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☑ Yes ☐ No
If Yes,
i. Identify Facilities:
St. Gregory the Great, Maple East Elementary Schoo;, Millard Fillmore Hospital, Elderwood Village

e. Does the project site contain an existing dam? ☐ Yes ☑ No
If Yes:
i. Dimensions of the dam and impoundment:
- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No
If Yes:
i. Has the facility been formally closed? ☐ Yes ☐ No
- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No
☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____
☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No
If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

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v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☐

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? 7 + feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: Cosad loamy fine sand 100 %
_____ %
_____ %

d. What is the average depth to the water table on the project site? Average: 1 feet

e. Drainage status of project site soils:
☐ Well Drained: _____% of site
☐ Moderately Well Drained: _____% of site
☑ Poorly Drained 100 % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name Brush Creek (Town of Amherst Ditch #4) Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

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m. Identify the predominant wildlife species that occupy or use the project site:
Typical suburban species

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation):
ii. Source(s) of description or evaluation:
iii. Extent of community/habitat:
- Currently: acres
- Following completion of project as proposed: acres
- Gain or loss (indicate + or -): acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No
If Yes:
i. Species and listing (endangered or threatened):

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No
If Yes:
i. Species and listing:

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use:

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number:

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No
i. If Yes: acreage(s) on project site?
ii. Source(s) of soil rating(s):

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name:
ii. Basis for designation:
iii. Designating agency and date:

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e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☐ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☐ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name 1692 Maple Road LLC Date July 29, 2025

Signature _____ Title Attorney for Project Sponsor

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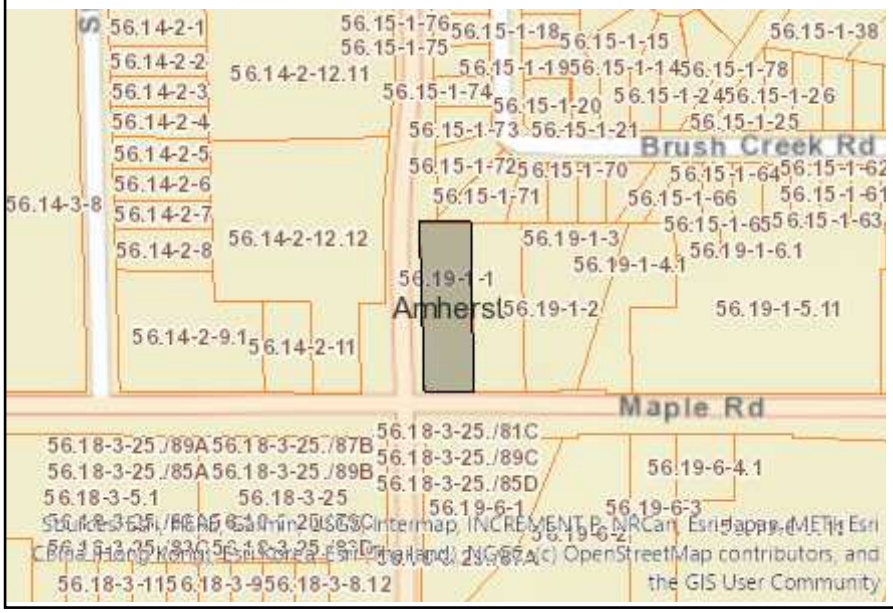
PRINT FORM

EAF Mapper Summary Report

Friday, November 22, 2024 4:03 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No

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E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

TOWN OF AMHERST ATTACHMENT
State Environmental Quality Review
ENVIRONMENTAL ASSESSMENT FORM

1. For each applicable category of proposed new structures, including additions to existing structures, provide the following information for all soil types on the project site (*according to Soil Survey of Erie County, NY; Table 11, Building Site Development, pp 294-305):*

Soil Name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Cosad loamy fine sand	✔				

2. If the Soil survey indicates either "severe" or "moderate" suitability for the proposed types of construction, a geotechnical and hydrological analysis based on one test per 3.5 acres of project area must be provided (per Town Board resolution, 3/17/03, amended 6/16/03).

_____ Geotechnical report attached ✔ Not applicable

3. Is your property located: On Youngs Road between Dodge and Klein Roads? ☐ Yes ☑ No
On Wehrle Dr. between Spindrift Dr. and Oakwood Rd? ☐ Yes ☑ No

If so, the property may be within an area of the Town that is affected by a moratorium on connections to the sanitary sewer system.

4. Are there alternative locations on the site for this project? ☐ Yes ☑ No

5. Location and size of real property owned by petitioner within one (1) mile of subject proposal:
1692 Maple Road - 0.96 ac

6. Are you aware of current or future plans or intentions by others in the Town of Amherst to develop property within 1000± ft. of the present project request: ☑ Yes ☐ No

Describe Proposed mixed use project at 1720-1760 Maple Road

(Potential environmental impacts from adjacent or nearby projects undergoing the approval process will receive a coordinated environmental review to determine cumulative effects on common receivers (e.g. traffic and drainage corridors) and other relevant environmental concerns.)

7. Maximum number of vehicular trips to be generated per hour upon completion of project 12
Source: ITE Trip Generator

8. Will blasting occur during construction? ☐ Yes ☑ No

9. Does the project propose to connect and be tributary to the public sanitary sewer system? ☑ Yes ☐ No

10. Proposed net additional gallons per day (gpd) of sanitary sewer discharge upon completion of project:

750 average flow 3,000 peak flow.

(Please note that average flows of 2,500 gpd or greater will require an Engineer's Report that includes a detailed downstream sewer capacity analysis and the identification of and commitment to required I/I offset work during peak wastewater flow conditions.)

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

ATTACHMENT A

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Amherst

Town of Amherst Planning Department *Erie County, New York*

Brian J. Kulp
Supervisor

Daniel C. Howard,
Planning Direc

Daniel J. Ulatowski,
Assistant Planning D

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

SEQR

NEGATIVE DECLARATION

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency:	Town of Amherst Town Board	**Project**:	Z-2024-04
Address:	5583 Main Street Williamsville, NY 14221 (716) 631-7051	**Date**:	April 28, 2025

This notice is issued pursuant to Part 617 and Local Law #3-82, as amended, of the implementing regulations pertaining to Article 8 (State Environmental Quality Review) of the Environmental Conservation Law.

The Lead Agency has determined that the proposed action described below will not have a significant adverse effect on the environment.

Title of Action: Rezoning Request.

SEQR Status: Unlisted action.

Description of Action: Rezoning of 0.96± acres of land from Residential District Three (R-3) to Office Building District (OB) to allow for the potential future use of the site for a medical office building.

Location: 1692 Maple Road, Town of Amherst, Erie County, New York

Petitioner: Michael & Corine Cicchetti

Reasons Supporting This Determination

Based on information submitted by the applicant, including a Short Environmental Assessment Form (EAF) - Part 1, a complete rezoning application, and concept plan, a preliminary staff analysis was undertaken. Based on the results of the EAF Part 2 and compared to the criteria listed in Section 617.7, all indications are that the proposed rezoning of 0.41± acres of land from Residential District Three (R-3) to Office Building District (OB) for a proposed medical office building will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Town Engineering Department will review any application for development of the parcel and require that all infrastructure to support the development will be available and adequate.

2. The project will not result in the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. A Landscape/Tree preservation Plan shall be required of the applicant upon submittal of a site plan application for development of the site at which stage all landscape requirements of the Zoning Ordinance will be met.

3. The project is not expected to create any material conflict with the Town Comprehensive Plan. The project will comply with all regulations of the Town Zoning Ordinance before final site plan approval is granted. The Town Building Department on February 26, 2024 and Zoning Enforcement Officer on February 13, 2025 reviewed the application and EAF submitted on December 4, 2024, and have no objection or comments on the proposed rezoning.

4. The project is within an area identified by the State as potentially containing significant cultural or archeological resources. The New York State Office of Parks, Recreation, Historic Preservation on December 12, 2024 has reviewed the project and determined that there will be no impact on these resources.

5. The project will not impair the character or quality of important aesthetic resources or of existing community or neighborhood character. The subject request is for rezoning from Residential District Three (R-3) to Office Building District (OB). Neighboring uses are Multi-Family Residential District Four-A (MFR-4A), Multi-Family Residential District Five (MFR-5), and Professional Offices and zoned Office Building District (OB); therefore, the project is consistent with surrounding land use.

6. The proposed rezoning to Office Building District (OB) for a proposed medical office building will not cause a major change in the use of either the quantity or type of energy.

7. The rezoning to Office Building District (OB) for a proposed medical office building will not create any hazard to human health. The Fire Chief's Association on February 10, 2025, has reviewed the rezoning request and supporting documentation and has no objection to or adverse comments on the proposed rezoning.

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

8. The rezoning to Office Building District (OB) will not cause a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses. The proposed medical office building will be consistent with the scale of surrounding land uses.

9. The rezoning to Office Building District (OB) for the proposed medical office building will increase the number of people using the site over its previous level of use as an undeveloped lot.

10. Review by the Town Traffic/Safety Board on December 23, 2024, indicates that significant negative traffic impacts are not expected to result from the proposed project.

11. Coordinated reviews of the project have been undertaken by Town Departments including Building on December 13, 2024, Traffic/Safety Board on December 19, 2024, Assessor on December 6, 2024, Fire Chiefs' Association on February 10, 2025, Zoning Enforcement Officer on February 13, 2025, and Right-of-Way Agent on December 19, 2024 along with outside agencies including Erie County Department of Environment & Planning on January 16, 2025, and New York State Office of Parks Recreation and Historic Preservation on December 12, 2024. These reviews have not identified any significant environmental issues and indicate that the proposal will not have a significant damaging impact on the environment.

12. Issues not specifically mentioned above and/or those not specifically reviewed were not raised by Town departments, outside agencies or the public and are not determined to be causing significant negative environmental impacts.

James Quinn, Assistant Planner — 5-5-25 date

Brian J. Kulpa, Supervisor — 5/6/25 date

JQ/ac
X:\Current_Planning\Files\Rezonings\2024\Z-2024-04_(1692_Maple _Rd)_2024\Z-2024-04_TB_Neg_Dec_04028025.docx
cc: Amherst Town Clerk
Amherst Building Department
ECDEP
Michael & Corine Cicchetti c/o Sean Hopkins, Esq. 35 California Dr., Suite 100, Williamsville, NY 14221

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

ATTACHMENT B

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Erie County On-Line Mapping Application





Legend

- Parcels

0 0.02 0.0 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
THIS MAP IS NOT TO BE USED FOR NAVIGATION

ERIE COUNTY
DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF GIS

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

1: 1,128

ATTACHMENT C

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

December 12, 2024

Scott Marshall
Principal Planner
Town of Amherst
5583 Main Street
Amherst, NY 14226

Re: SEQRA
Proposed Medical Building
1692 Maple Rd, Amherst, NY 14221
24PR11042

Dear Scott Marshall:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Campbell Higle at the following email address:

Campbell.Higle@parks.ny.gov

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

CARMINA WOOD
DESIGN

ENGINEER'S REPORT

for

Proposed Medical Building
1692 Maple Road
Town of Amherst, Erie County, New York

Prepared for

1692 Maple Road LLC

1692 Maple Road
Buffalo, NY 14221

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

Telephone: (716) 842-3165
Fax: (716) 842-0263

June 2025



Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Table of Contents

Written Engineer's Report

Section 1 - Location & Description
Section 2 - Water Service
Section 3 - Sanitary Sewer Service
Section 4 - Storm Sewer Service

Appendices

Appendix A Sanitary Sewer and Water Demand Calculations

Appendix B Storm Sewer System Drainage Calculations

- Existing Runoff
- Proposed Runoff

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Section 1 - Location & Description

This project is a development of an existing vacant 0.9 acre site located 1692 Maple Road in the Town of Amherst. Construction will consist of a 9,000 sf surgical center with associated site, utility and landscaping improvements. Currently the site is vacant. The proposed site development area to be disturbed for this project is approximately 0.8 acres when construction is completed.

Section 2 - Water Service

Water service for the site will be tapped off the existing 8" Erie County Water Authority water main on the south side of Maple Road. The proposed service will be a 2" type k copper domestic water service. This service will continue into an interior mechanical room housing the meter and RPZ. Proper heat and lighting will be provided in the enclosure, drainage due to testing or failure of the RPZ will be to the exterior grade. The owner will be responsible for keeping the drainage ports clear of snow and debris. Water inside the building will be used for typical domestic uses.

Domestic Summary:	
Peak Operating Demand:	0.41 gpm
Water Main:	8" on Maple Road
Static Pressure:	94 psi (per ECWA)
Friction Loss:	0.0 psi
Loss through meter/RPZ:	13.0 psi
Elevation Loss:	0.0 psi
Pressure after RPZ:	69 psi

Section 3 - Sanitary Sewer Service

Proposed is a 6" SDR-35 PVC private sanitary sewer lateral, connected to the existing public sanitary sewer main along the west side of Youngs Road.

Design Parameters

Doctors:	250 gal/day/doctor x 4 doctors = 1,000 gpd
Employees:	15 gal/day/employee x 10 employees = 150 gpd

1,150 gpd * 4.41 = 5,070 gpd *use peaking factor of 4.41

The hydraulic loading rate is per "Design Standards for Intermediate Sized Wastewater Treatment Systems" 2014, NYSDEC, number of students is based on maximum capacity of the proposed building.

Section 4 - Storm Sewer Service

The existing site currently sheet drains in multiple directions either to neighboring properties or public storm sewer systems on either Maple Road or Youngs Road.

Stormwater runoff collected onsite as a result of the proposed development will be routed to an onsite dry detention basin. An 8" outlet control pipe will be provided downstream of the dry detention basin. Discharge from the outlet pipe will connect to the existing storm sewer system on Youngs Road.

Town of Amherst Requirement:
The Town of Amherst requires that the 25-year proposed storm event be attenuated with detention and that the outlet be restricted to the 10-year existing storm event. This volume of 2,738 cf is accommodated in the detention basin at elevation 603.89. At this elevation, the outlet discharge

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

will be restricted to 1.32 cfs, which is less than the existing 10-year peak runoff outflow of 2.25 cfs.

Detention: Comparison of the existing 10-year vs. the proposed 25-year runoff

RUNOFF SUMMARY

EVENT	EX. RUNOFF (cfs)	PRO. RUNOFF (cfs)	RESULT (cfs)
10-year	2.25	1.17	-1.08
25-year	3.16	1.32	-1.84

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Appendix A

Sanitary Sewer and Water Demand Calculations

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

CARMINA WOOD DESIGN
80 Silo City Row, Suite 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 24-4153 Date: 6/23/2025
Project Name: Proposed Medical Building
Project Address: 1692 Maple Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 1

Sanitary Sewage Demand Calculations:

250 gal/d/doc	x	4 doc	=	1,000	gpd	*use 250 gallons per doctor per day
15 gal/d/emp	x	10 emp	=	150	gpd	*use 15 gallons per employee per day

Total Site Sanitary Demand: = 1,150 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 1,150 gpd / 100 gpcd = 12 per capita

Population (P) = 12 people

Peaking Factor : (18 +√P) / (4 + √P) where P is in thousands

Peaking Factor = 4.41

Peak Sanitary Demand = 1,150 x 4.41 = 5,070 gpd
= 0.005 MGD
= 0.008 cfs

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

CARMINA WOOD DESIGN
80 Silo City Row, Suite 100
BUFFALO, NEW YORK, 14203
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Project No.: 24-4153 Date: 6/23/2025
Project Name: Proposed Medical Building
Project Address: 1692 Maple Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 2 of 2

Water Demand Calculations (domestic):

Medical Building

1,150 gpd x 1.1 = 1,265 gpd *use 110% of sewage demand

*use 1.8 peaking factor and assume a 12 hour day

1,265 gpm x 1day/12hr x 1hr/60min = 1.76 gpm

1.76 gpm x 1.8 = 3.16 gpm Q_{peak}

Headlosses:

Q_{peak} = 3.16 gpm
Pipe = 2 inch Type 'K' Copper C = 140
Length = 135 LF (approx. distance from tap to RPZ)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(135)(3.16)^{1.85}}{(140)^{1.85}\ (2)^{4.866}} = 0.04 \text{ ft} = 0.02 \text{ psi}$$

Δ elev = 0 ft = 0.00 psi
Loss through meter = 1 psi
Loss through RPZ = 12 psi
Total Losses = 13.0 psi
Static Pressure = 82 psi (per ECWA)
Residual Pressure Following RPZ = 82 - 13.0 = 69.0 psi (available after rpz & meter)

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Appendix B

Storm Sewer System Drainage Calculations

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Existing Runoff

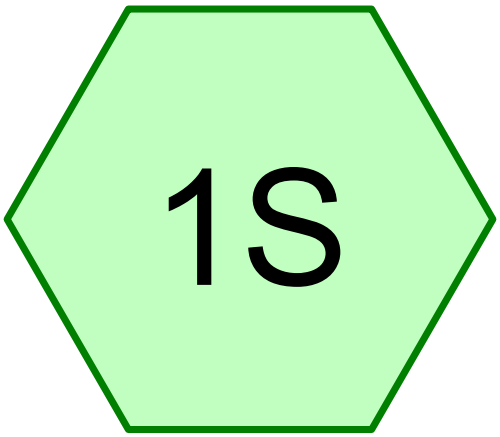
Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

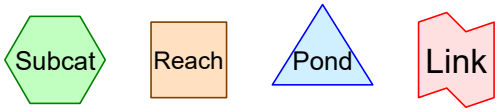
Events for Subcatchment 1S: Existing

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.87	0.77	1,690	0.48
2-Year	2.20	1.12	2,398	0.69
5-Year	2.69	1.69	3,564	1.02
10-Year	3.14	2.25	4,725	1.36
25-Year	3.84	3.16	6,657	1.91
50-Year	4.48	4.02	8,519	2.44
100-Year	**5.23**	**5.05**	**10,784**	**3.09**

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)



Existing



Routing Diagram for 24-4153 existing
Prepared by Carmina Wood Morris, PC, Printed 6/23/2025
HydroCAD® 10.20-2h s/n 05019 © 2024 HydroCAD Software Solutions LLC

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
2	25-Year	Type II 24-hr		Default	24.00	1	3.84	2

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
41,818	80	>75% Grass cover, Good, HSG D (1S)
41,818	**80**	**TOTAL AREA**

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
41,818	HSG D	1S
0	Other	
41,818		**TOTAL AREA**

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	41,818	0	41,818	>75% Grass cover, Good	
0	**0**	**0**	**41,818**	**0**	**41,818**	**TOTAL AREA**	

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Existing Runoff Area=0.960 ac 0.00% Impervious Runoff Depth=1.36"
Flow Length=67' Slope=0.0280 '/' Tc=7.0 min CN=80 Runoff=2.25 cfs 4,725 cf

Total Runoff Area = 41,818 sf Runoff Volume = 4,725 cf Average Runoff Depth = 1.36"
100.00% Pervious = 41,818 sf 0.00% Impervious = 0 sf

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Subcatchment 1S: Existing

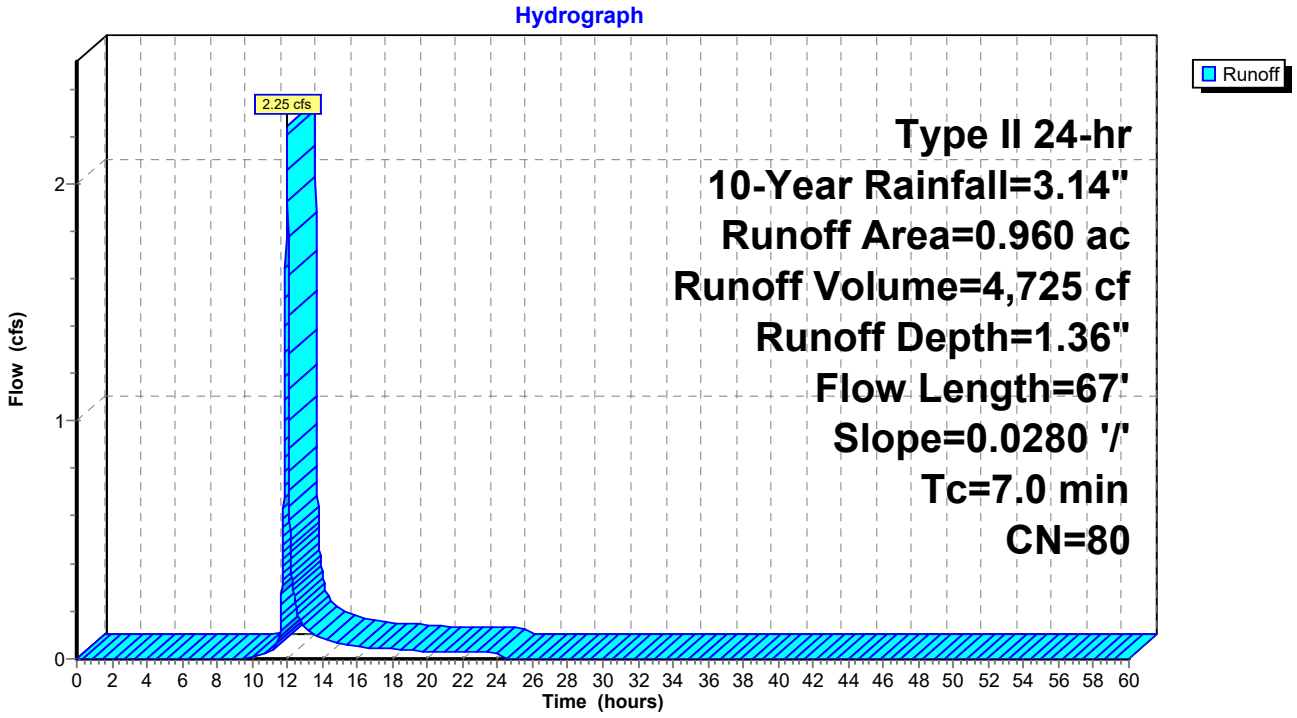
Runoff = 2.25 cfs @ 11.99 hrs, Volume= 4,725 cf, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.960	80	>75% Grass cover, Good, HSG D
0.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	67	0.0280	0.16		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 1S: Existing



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Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Existing Runoff Area=0.960 ac 0.00% Impervious Runoff Depth=1.91"
Flow Length=67' Slope=0.0280 '/' Tc=7.0 min CN=80 Runoff=3.16 cfs 6,657 cf

Total Runoff Area = 41,818 sf Runoff Volume = 6,657 cf Average Runoff Depth = 1.91"
100.00% Pervious = 41,818 sf 0.00% Impervious = 0 sf

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Subcatchment 1S: Existing

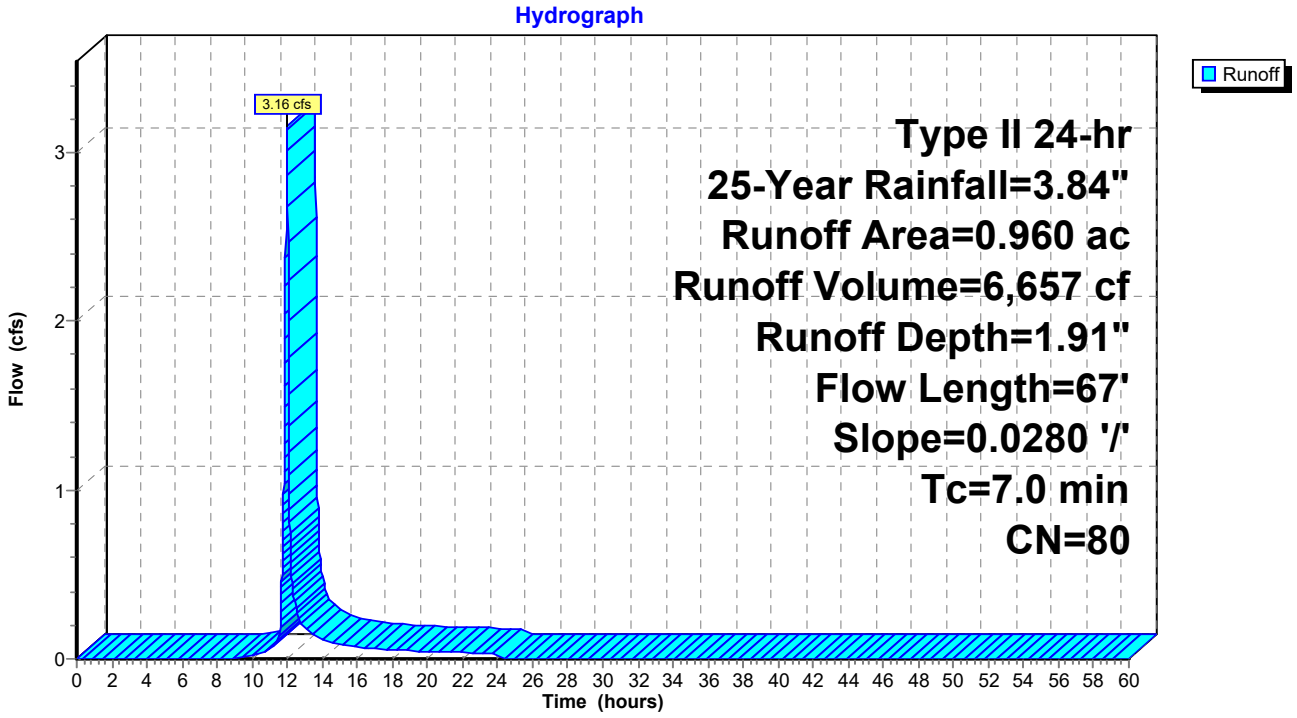
Runoff = 3.16 cfs @ 11.99 hrs, Volume= 6,657 cf, Depth= 1.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.960	80	>75% Grass cover, Good, HSG D
0.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	67	0.0280	0.16		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 1S: Existing



Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Proposed Runoff

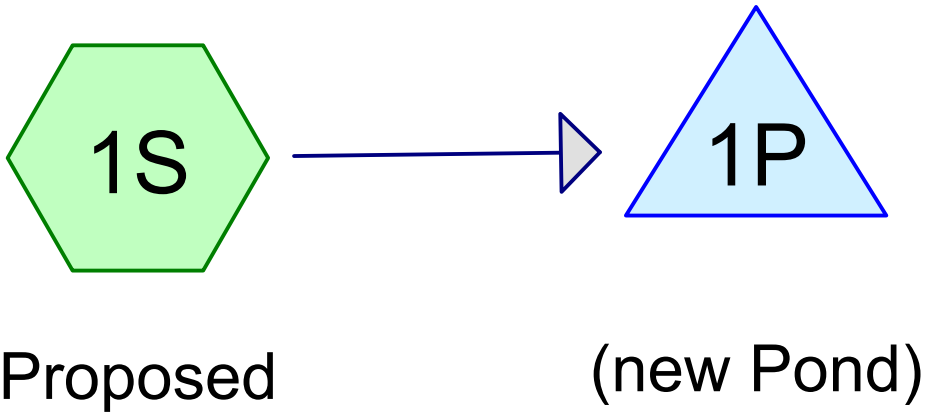
Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Events for Pond 1P: (new Pond)

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	1.77	0.80	602.89	735
2-Year	2.27	0.90	603.07	1,023
5-Year	3.04	1.05	603.33	1,490
10-Year	3.75	1.17	603.56	1,958
25-Year	4.87	1.32	603.89	2,738
50-Year	5.89	6.23	636.34	**3,035**
100-Year	**7.08**	**9.62**	**683.66**	3,035

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)



Subcat Reach Pond Link

Routing Diagram for 24-4153 proposed
Prepared by Carmina Wood Morris, PC, Printed 6/23/2025
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Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
2	25-Year	Type II 24-hr		Default	24.00	1	3.84	2

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
20,909	80	>75% Grass cover, Good, HSG D (1S)
20,909	98	Paved parking, HSG D (1S)
41,818	**89**	**TOTAL AREA**

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
41,818	HSG D	1S
0	Other	
41,818		**TOTAL AREA**

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	20,909	0	20,909	>75% Grass cover, Good	
0	0	0	20,909	0	20,909	Paved parking	
0	**0**	**0**	**41,818**	**0**	**41,818**	**TOTAL AREA**	

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	1P	602.00	601.70	100.0	0.0030	0.013	0.0	8.0	0.0

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Proposed Runoff Area=0.960 ac 50.00% Impervious Runoff Depth=2.03"
Flow Length=72' Tc=3.0 min CN=89 Runoff=3.75 cfs 7,063 cf

Pond 1P: (new Pond) Peak Elev=603.56' Storage=1,958 cf Inflow=3.75 cfs 7,063 cf
8.0" Round Culvert n=0.013 L=100.0' S=0.0030 '/' Outflow=1.17 cfs 7,063 cf

Total Runoff Area = 41,818 sf Runoff Volume = 7,063 cf Average Runoff Depth = 2.03"
50.00% Pervious = 20,909 sf 50.00% Impervious = 20,909 sf

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Subcatchment 1S: Proposed

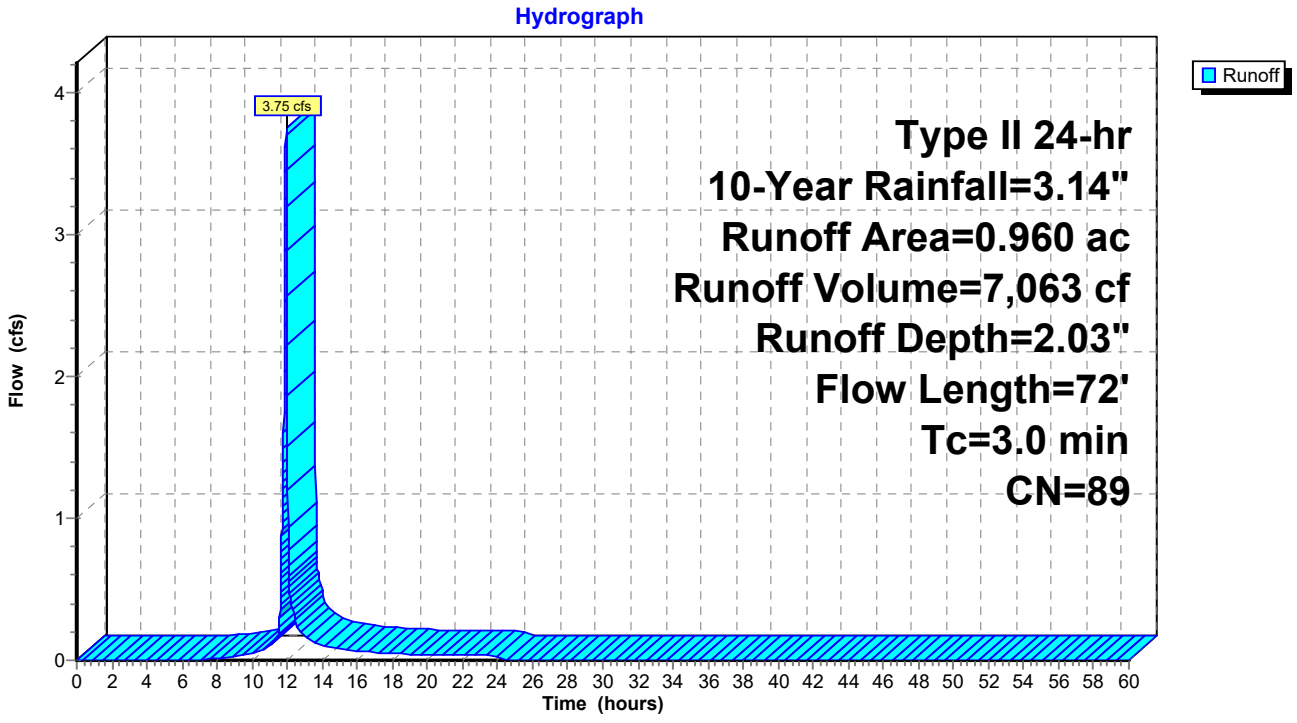
Runoff = 3.75 cfs @ 11.94 hrs, Volume= 7,063 cf, Depth= 2.03"
Routed to Pond 1P : (new Pond)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.480	98	Paved parking, HSG D
0.480	80	>75% Grass cover, Good, HSG D
0.960	89	Weighted Average
0.480		50.00% Pervious Area
0.480		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	67	0.0120	0.91		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
1.8	5	0.0050	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
3.0	72	Total			

Subcatchment 1S: Proposed



Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Pond 1P: (new Pond)

Inflow Area = 41,818 sf, 50.00% Impervious, Inflow Depth = 2.03" for 10-Year event
Inflow = 3.75 cfs @ 11.94 hrs, Volume= 7,063 cf
Outflow = 1.17 cfs @ 12.03 hrs, Volume= 7,063 cf, Atten= 69%, Lag= 5.7 min
Primary = 1.17 cfs @ 12.03 hrs, Volume= 7,063 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 603.56' @ 12.03 hrs Surf.Area= 2,199 sf Storage= 1,958 cf

Plug-Flow detention time= 19.1 min calculated for 7,062 cf (100% of inflow)
Center-of-Mass det. time= 19.2 min (825.1 - 806.0)

Volume	Invert	Avail.Storage	Storage Description
#1	602.00'	3,035 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

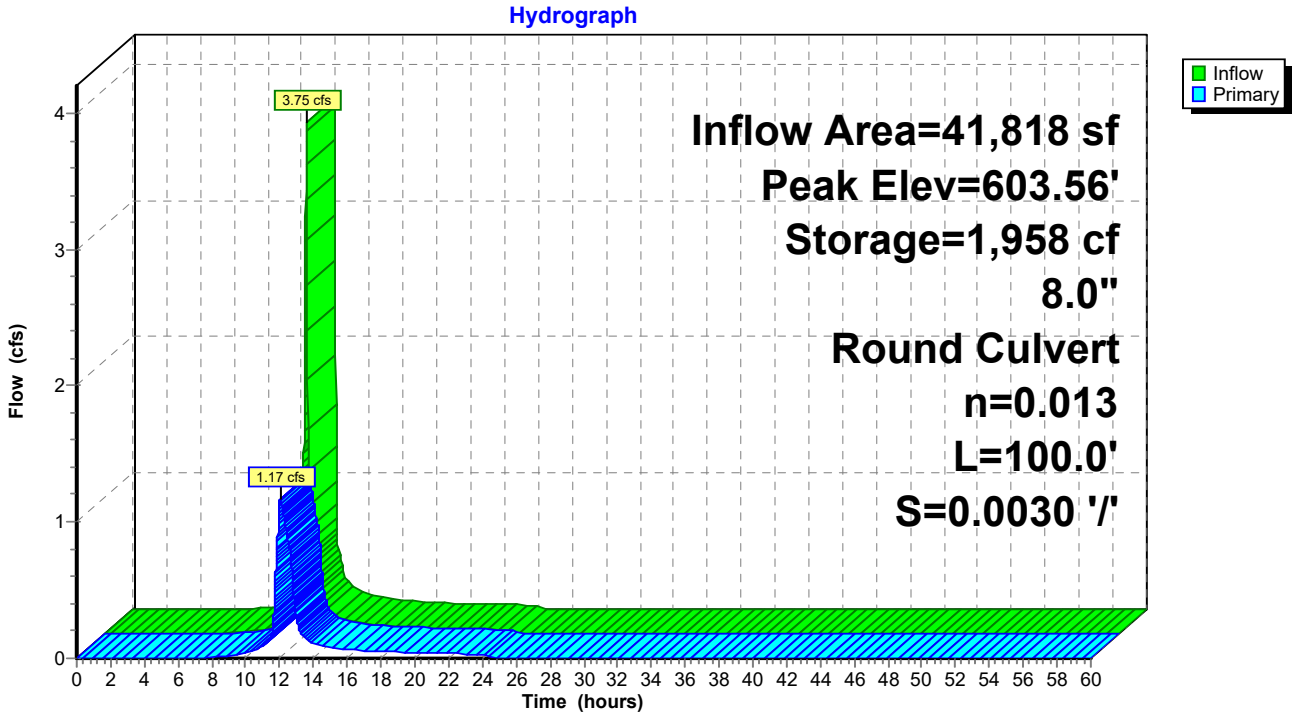
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
602.00	250	0	0
603.00	1,560	905	905
604.00	2,700	2,130	3,035

Device	Routing	Invert	Outlet Devices
#1	Primary	602.00'	**8.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 602.00' / 601.70' S= 0.0030 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.17 cfs @ 12.03 hrs HW=603.56' (Free Discharge)
1=Culvert (Barrel Controls 1.17 cfs @ 3.34 fps)

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Pond 1P: (new Pond)



Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Proposed Runoff Area=0.960 ac 50.00% Impervious Runoff Depth=2.67"
Flow Length=72' Tc=3.0 min CN=89 Runoff=4.87 cfs 9,316 cf

Pond 1P: (new Pond) Peak Elev=603.89' Storage=2,738 cf Inflow=4.87 cfs 9,316 cf
8.0" Round Culvert n=0.013 L=100.0' S=0.0030 '/' Outflow=1.32 cfs 9,316 cf

Total Runoff Area = 41,818 sf Runoff Volume = 9,316 cf Average Runoff Depth = 2.67"
50.00% Pervious = 20,909 sf 50.00% Impervious = 20,909 sf

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Subcatchment 1S: Proposed

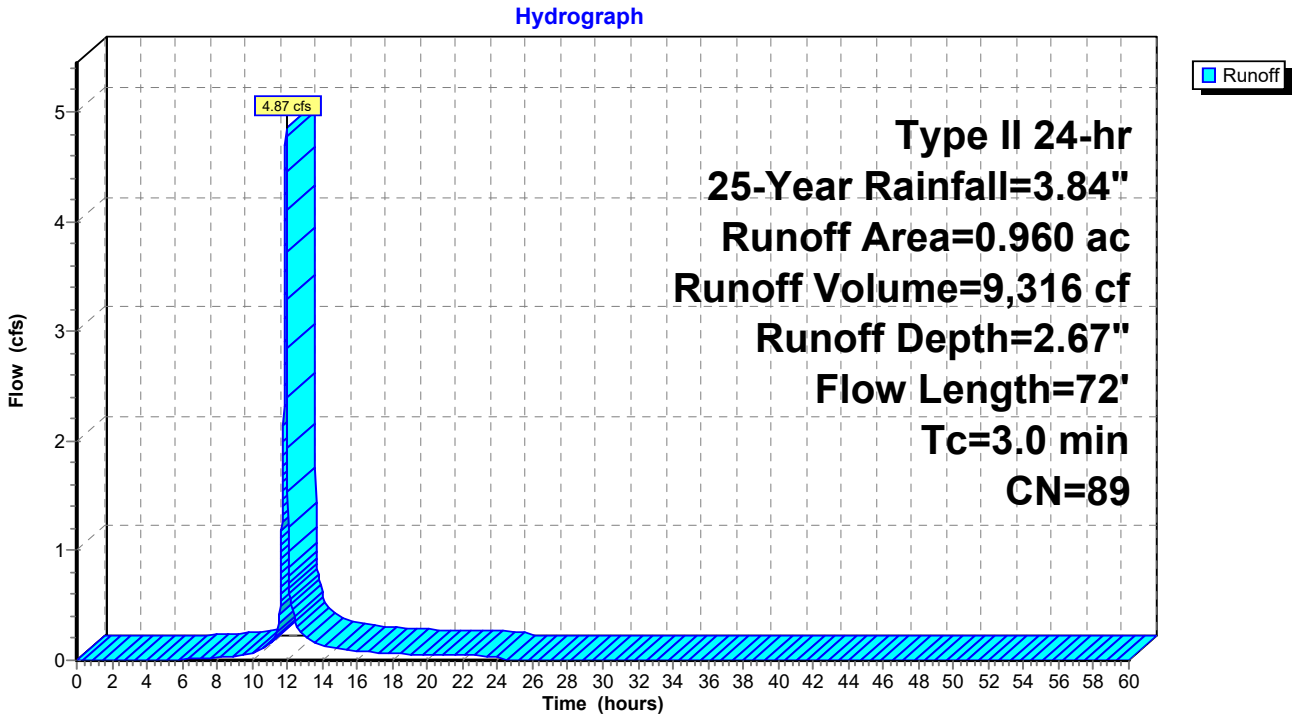
Runoff = 4.87 cfs @ 11.94 hrs, Volume= 9,316 cf, Depth= 2.67"
Routed to Pond 1P : (new Pond)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.480	98	Paved parking, HSG D
0.480	80	>75% Grass cover, Good, HSG D
0.960	89	Weighted Average
0.480		50.00% Pervious Area
0.480		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	67	0.0120	0.91		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
1.8	5	0.0050	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
3.0	72	Total			

Subcatchment 1S: Proposed



Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Pond 1P: (new Pond)

Inflow Area = 41,818 sf, 50.00% Impervious, Inflow Depth = 2.67" for 25-Year event
Inflow = 4.87 cfs @ 11.94 hrs, Volume= 9,316 cf
Outflow = 1.32 cfs @ 12.04 hrs, Volume= 9,316 cf, Atten= 73%, Lag= 6.1 min
Primary = 1.32 cfs @ 12.04 hrs, Volume= 9,316 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 603.89' @ 12.04 hrs Surf.Area= 2,572 sf Storage= 2,738 cf

Plug-Flow detention time= 21.1 min calculated for 9,316 cf (100% of inflow)
Center-of-Mass det. time= 20.9 min (819.1 - 798.1)

Volume	Invert	Avail.Storage	Storage Description
#1	602.00'	3,035 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

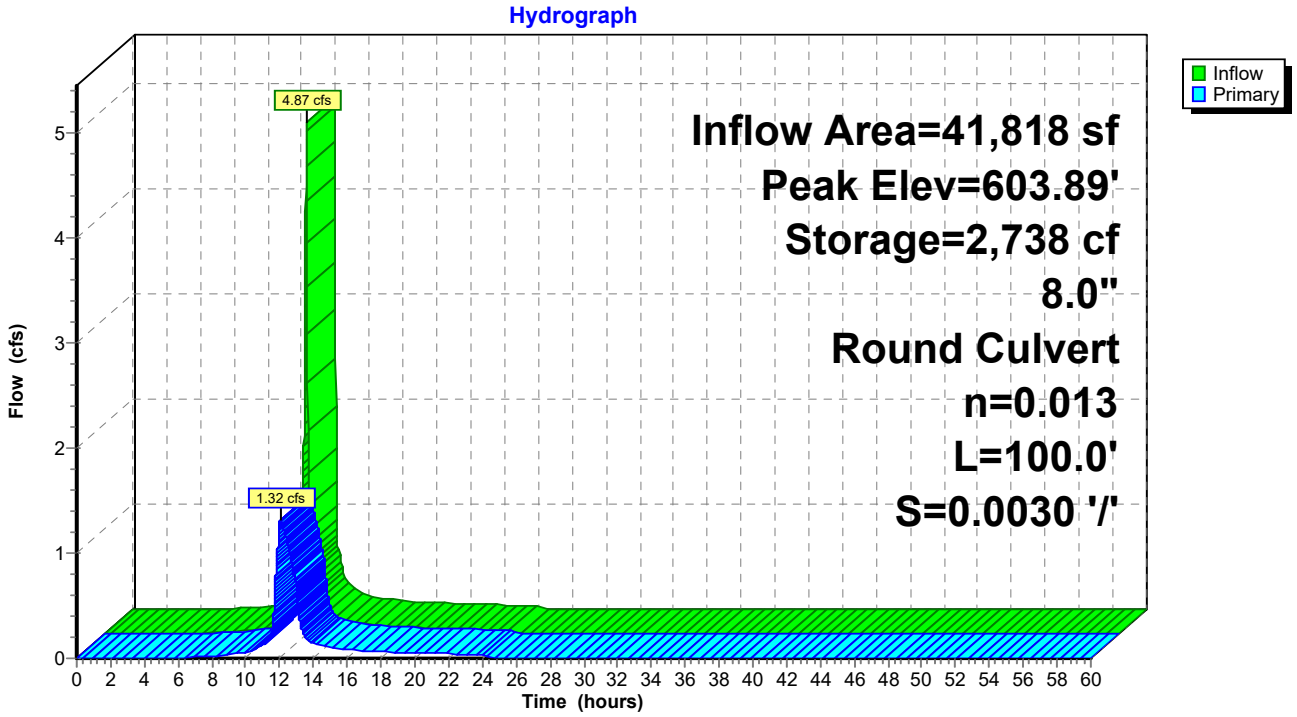
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
602.00	250	0	0
603.00	1,560	905	905
604.00	2,700	2,130	3,035

Device	Routing	Invert	Outlet Devices
#1	Primary	602.00'	**8.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 602.00' / 601.70' S= 0.0030 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.32 cfs @ 12.04 hrs HW=603.89' (Free Discharge)
1=Culvert (Barrel Controls 1.32 cfs @ 3.77 fps)

Attachment: SP-2025-05_application_082125 (30598 : SP-2025-05, 1692 Maple Road)

Pond 1P: (new Pond)



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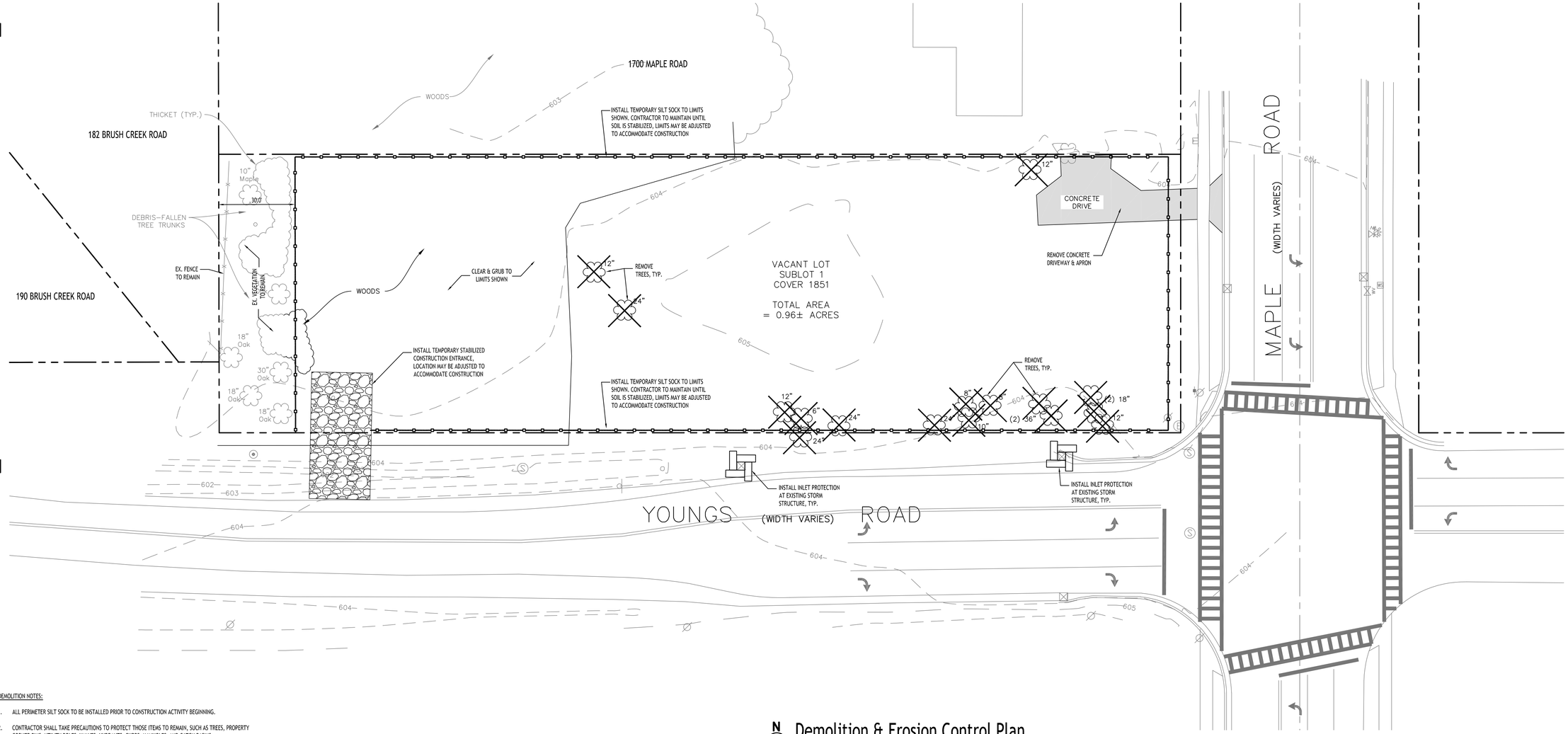

Demolition & Erosion Control Plan

SCALE: 1"=20'

DEMOLITION NOTES:

1. ALL PERIMETER SILT SOCK TO BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITY BEGINNING.
2. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES AND CATCH BASINS.
3. TEMPORARY SILT SOCK TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
4. AS NECESSARY, COVERED DUMPSTERS SHALL BE PROVIDED ONSITE AS REQUIRED FOR CONSTRUCTION WASTE.
5. REMOVE ALL TREES AND STUMPS AS SHOWN AND DISPOSE OF OFF SITE. CONTRACTOR TO PROTECT ALL TREES/BRUSH NOT DISTURBED BY CONSTRUCTION ACTIVITY. LOCATIONS OF TREES SHOWN ON PLAN ARE APPROXIMATE, CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.

EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY SILT SOCK BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT SOCK BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE OF TOPSOIL MUST BE FOLLOWED. TOPSOIL MAY NOT BE REMOVED WITHOUT A PERMIT.
3. ALL SILT SOCK BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND SPREAD WATER AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN/CITY.
9. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
10. INSTALL TEMPORARY SILT SOCK AROUND THE BASE OF STOCKPILES. STOCKPILES NOT BEING ACTIVELY USED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED.

DEMOLITION & EROSION CONTROL LEGEND

- EXISTING PAVEMENT TO BE SAWCUT & REMOVED
- PROPOSED SILT SOCK
- EXISTING TREE TO BE REMOVED
- PROPOSED STORM INLET PROTECTION

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20' 20 0 20 40Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
PROFESSIONAL ENGINEER

DRAWING NAME:

Demolition & Erosion Control Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-001

Project No: 24-4153

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

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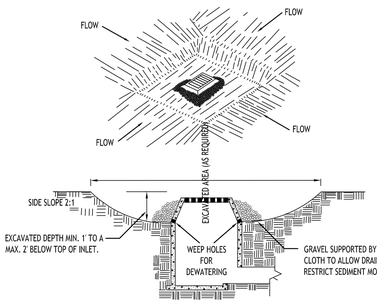


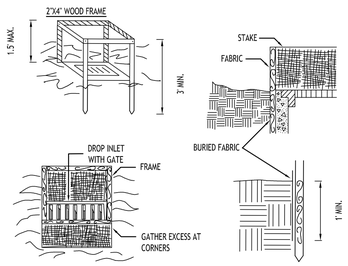
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



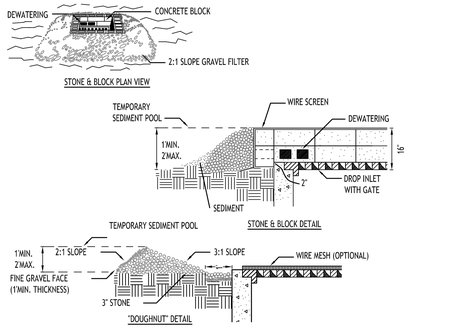
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUN DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

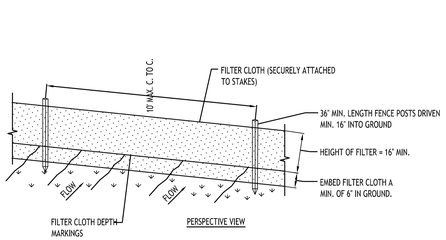
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

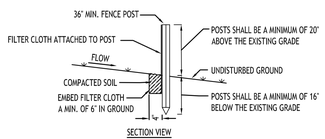
MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION



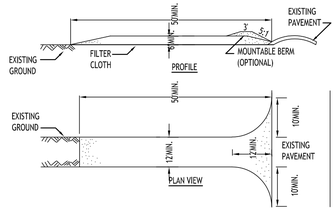


CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

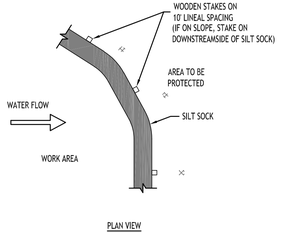


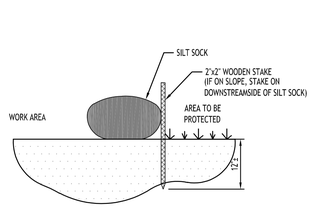
CONSTRUCTION SPECIFICATIONS

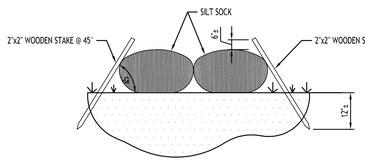
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE







NOTES:

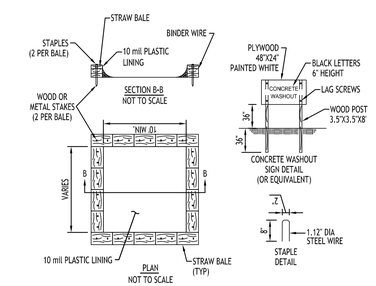
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

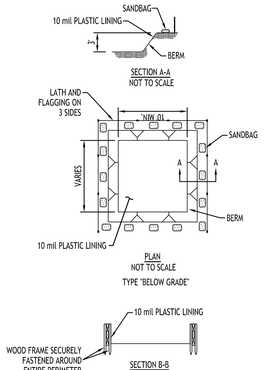
SILT SOCK DETAIL

NOT TO SCALE



NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

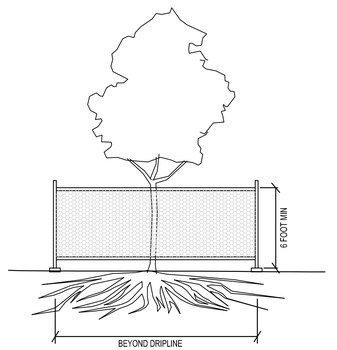


CONCRETE WASHOUT DETAIL

NOT TO SCALE



PLAN VIEW OF ROOTS



EXISTING TREE PROTECTION FENCE

MATERIALS

MATERIALS FOR TEMPORARY PLASTIC BARRIER FENCES SHALL MEET THE FOLLOWING REQUIREMENTS:

- FENCE: HIGH-DENSITY POLYETHYLENE MESH, ULTRAVIOLET-STABILIZED MIN. 2 YEARS; MINIMUM HEIGHT 4.0 FEET. COLOR: HIGH-VISIBILITY ORANGE OR GREEN. WHEN USED TO PROTECT TREES OR OTHER VEGETATION, COLOR SHALL BE HIGH-VISIBILITY ORANGE.
- POSTS: RIGID METAL OR WOOD POSTS, MINIMUM LENGTH 6.0 FEET.
- TIES: STEEL WIRE, #14 GAUGE OR NYLON CABLE TIES.
- WARNING SIGNS: SHEET METAL, PLASTIC OR OTHER RIGID, WATERPROOF MATERIAL, 1.5 FEET BY 2.0 FEET WITH 4 INCH BLACK LETTERS ON A WHITE BACKGROUND. TEXT SHALL BE: 'PROTECTED SITE - KEEP OUT' UNLESS OTHERWISE SPECIFIED.

DETAILS

FENCES SHALL BE ERECTED PRIOR TO MOVING CONSTRUCTION EQUIPMENT ONTO ANY AREA DESIGNATED FOR PROTECTION.

THE LINE OF FENCES SHALL BE STAKED OR MARKED OUT ON THE GROUND BY THE CONTRACTOR AND APPROVED BY THE ENGINEER/OWNER BEFORE ANY FENCE IS INSTALLED. WHERE USED FOR PROTECTION OF INDIVIDUAL TREES, FENCE SHALL BE PLACED AT THE DRIP LINE (EXTENT OF CANOPY), IF NOT POSSIBLE, PLACEMENT SHALL BE AS CLOSE TO THE DRIP LINE AS POSSIBLE AND IN NO CASE LESS THAN 5.0 FEET AWAY FROM THE TREE TRUNK.

ON APPROVAL OF THE STAKEOUT, POSTS SHALL BE SECURELY DRIVEN ON 6.0 FOOT-MAXIMUM CENTERS, NORMAL TO THE GROUND, TO A DEPTH 1/3 OF THE TOTAL POST LENGTH. PLASTIC BARRIER FENCE SHALL BE PLACED ALONG THE SIDE OF ALL POSTS. ENDS OF FENCING SEGMENTS SHALL OVERLAP A DISTANCE OF AT LEAST ONE HALF THE FENCE HEIGHT.

FENCING SHALL BE SECURED TO POSTS WITH WIRE OR CABLE TIES AT TOP, MIDDLE AND BOTTOM OF POST. FASTENER SHALL BE TIGHT ENOUGH TO PREVENT THE FENCING FROM SLIPPING DOWN. OVERLAPS SHALL ALSO BE SECURELY FASTENED.

BARRIER FENCE WHICH IS NOT ORANGE IN COLOR SHALL BE FLAGGED AT 6.0 FOOT INTERVALS WITH RED OR ORANGE FLORESCENT TAPE. WARNING SIGNS SHALL BE MOUNTED ON THE FENCE AT NO MORE THAN 100 FOOT INTERVALS.

MAINTENANCE SHALL COMMENCE IMMEDIATELY AFTER ERECTION OF THE FENCE AND CONTINUE UNTIL ONE WEEK PRIOR TO ACCEPTANCE OF THE CONTRACT, AND SHALL CONSIST OF: REPLACING DAMAGED POST(S) AND FENCING; RE-FASTENING AND TIGHTENING FENCING; AND RESTORING FENCE TO ITS INTENDED HEIGHT.

FENCING USED FOR TREE OR OTHER VEGETATION PROTECTION SHALL NOT BE TEMPORARILY REMOVED TO ALLOW EQUIPMENT ACCESS OVER A PROTECTED AREA, EXCEPT AS REQUIRED FOR ITEMS OF WORK SPECIFICALLY SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER IN WRITING.

TREE PROTECTION DETAIL

NOT TO SCALE

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date



DRAWING NAME:

Demolition & Erosion Control Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-002

Project No: 24-4153

Attachment: SP-2025-05_drawings_082126 (30598 : SP-2025-05, 1692 Maple Road)

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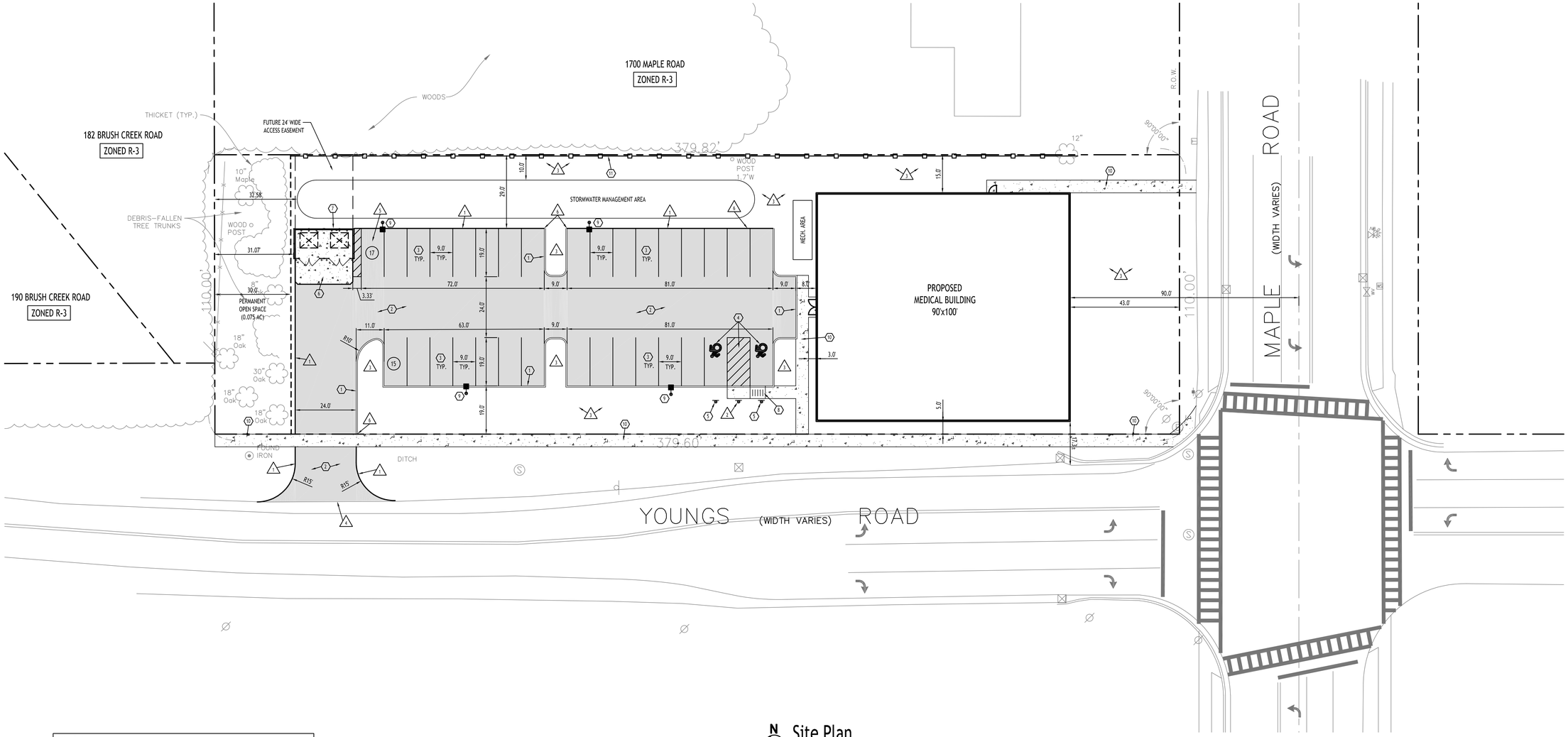

Site Data

TOTAL SITE AREA = 0.96± ACRES
ZONED: R-3 (REZONED TO OB: OFFICE BUILDING DISTRICT)
USE: PROPOSED SURGICAL CENTER

	REQUIRED	PROVIDED
SETBACKS - BUILDING		
FRONT:	20 FT	5.0 FT *
FRONT (FROM OF ℄ MAPLE RD):	90 FT	90 FT
SIDE (ADJ. RES./ NON-RES.):	30 FT	15.0 FT *
REAR (ADJ. RES./ NON-RES.):	30 FT	N/A
SETBACKS - PARKING		
FRONT:	15 FT	19.0 FT MIN.
SIDE/REAR ADJOINING RES.:	25 FT	27.0 FT MIN.
SIDE/REAR ADJOINING NON-RES.:	10 FT	N/A
MAX BUILDING HEIGHT (FLAT ROOF):	30 FT	25 FT
LOT COVERAGE (FOR ALL BLDGS):	N/A	21.5%
PARKING: 9' x 19'	32	32
GREENSPACE:		
INTERIOR PARKING (5%)	0.01 AC	0.025 AC (10.9%)
OVERALL	N/A	50%

*VARIANCE REQUIRED

PARKING CALCULATION:
SURGICAL CENTER/TREATMENT FACILITY
3.5 SPACES PER 1,000 SF OF NET FLOOR AREA

9,000 SF / 1,000 SF * 3.5 = 32 SPACES REQUIRED

DETAIL LEGEND (SEE SITE DETAIL SHEET)

1. TYPE 'A' CONCRETE CURB
2. STANDARD DUTY ASPHALT
3. 90° PARKING STALL
4. HANDICAP PAVEMENT MARKINGS
5. HANDICAPPED PARKING SIGN
6. EXTERIOR CONCRETE SLAB ON GRADE
7. DUMPSTER ENCLOSURE
8. SIDEWALK CURB RAMP
9. LIGHT POLE FOUNDATION
10. CONCRETE SIDEWALK, 5' WIDE UNLESS OTHERWISE NOTED
11. 6' HT. WOODEN FENCE

NOTE LEGEND

1. EDGE OF PAVEMENT
2. INSTALL "NO PARKING" SIGN, M.U.T.C.D. SIGN NO. R7-1C
3. LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
4. MATCH EX. PAVEMENT, SAWCUT AS REQ'D TO ACHIEVE SQUARE EDGE TO MATCH
5. 4" WIDE WHITE PAINT STRIPE @ 45° & 2' O.C., INFILL AREA AS SHOWN
6. RUNOUT CURB 2'

SITE NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS: SHALL HAVE 4" MIN. OF TOPSOIL AND SEED.
3. ALL DIMENSIONS FROM PROPERTY LINES SHALL BE MEASURED PERPENDICULAR TO THE PROPERTY LINE.
4. CENTER ENTRANCE SIDEWALKS ON DOOR OPENINGS.
5. BUILDING DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
6. ALL HANDICAP RAMPS (NOT WITHIN THE NYSDOT R.O.W.) AND/OR SIDEWALKS FLUSH TO PAVEMENT SHALL HAVE ADA COMPLIANT TACTILE WARNING STRIPS WHERE ENTERING PARKING AREAS/DRIVEWAYS. SIDEWALKS FLUSH TO PAVEMENT WITHIN THE NYSDOT R.O.W. SHALL ADHERE TO THE NOTES AND DESIGN REGULATIONS AS STATED ON NYSDOT STANDARD SHEET 608-01.
7. EXISTING TREE LOCATIONS ARE APPROXIMATE, CONTRACTOR TO LOCATE LOCATIONS PRIOR TO CONSTRUCTION AND COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.

GENERAL NOTES:

1. NO GROUND MOUNTED MECHANICAL EQUIPMENT SHALL BE INSTALLED ALONG THE EASTERN SIDE OF THE BUILDING ADJACENT TO 1700 MAPLE ROAD.
2. INSTALL ALL MATERIALS TO MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
3. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNER'S APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
4. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
5. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
7. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
8. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
9. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.

SITE LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED SIDEWALK / CONCRETE PAD
- NUMBER OF PARKING SPACES (17)
- PROPOSED SIGN
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED LIGHT POLE

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20 20 0 20 40Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	7/30/25

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Site Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-100

Project No: 24-4153

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

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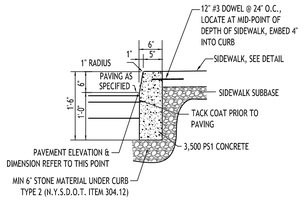
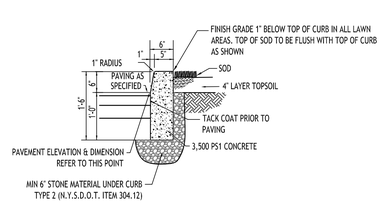


ABUTTING SIDEWALK

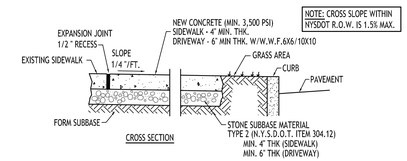


ABUTTING LANDSCAPE/GRASS

NOTES:
1. CONTROL JOINTS TO BE 2" DEEP AT 15'-0" O.C. - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. WHERE THE CURB DROPS (IS FLUSH WITH ASPHALT) THE DEPTH OF CURB BELOW GRADE SHALL BE INCREASED TO 1'-6" AND OTHER DIMENSIONS ADJUSTED ACCORDINGLY.

TYPE "A" CONCRETE CURB - 1

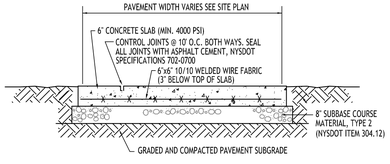
NOT TO SCALE



NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTH WAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3.
3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE, PROVIDE CONTINUOUS STONE PATH TO CURB UNDERDRAIN WHERE PROVIDED.
4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB.
6. INSTALL 6' LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN ENTRANCE, THICKEN SIDEWALK TO 6' AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6' DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE.
7. INSTALL 1/2" PREMOLDED EXPANSION JOINT WITH BACKER ROD & SEALANT WHERE SIDEWALK ABUTS BUILDING OR OTHER STRUCTURE.

CONCRETE SIDEWALK - 10

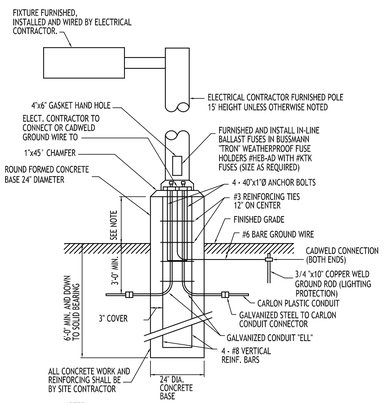
NOT TO SCALE



NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-3.

EXTERIOR CONCRETE SLAB-ON-GRADE SECTION - 6

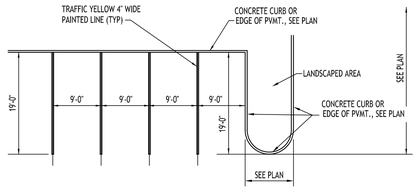
NOT TO SCALE



NOTES:
1. FOR LOCATIONS OF FOUNDATIONS SEE SITE PLAN
2. FOR LIGHT FIXTURE ORDERING INFORMATION SEE SITE LIGHTING PLAN
3. LIGHT POLE BASE EXPOSURE ABOVE GRADE SHALL BE:
   IN CURBED ISLANDS: 6" ABOVE TOP OF CURB ELEVATION
   IN PAVEMENT: 30" ABOVE GRADE
   IN NON-CURBED GRASS AREAS: 6" ABOVE GRADE

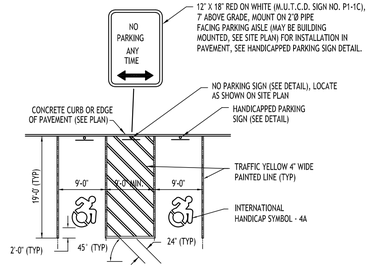
LIGHT POLE FOUNDATION - 9

NOT TO SCALE



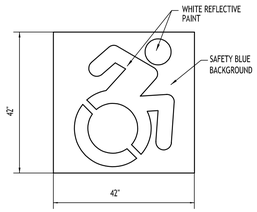
90° PARKING STALL LAYOUT - 3

NOT TO SCALE



HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 4

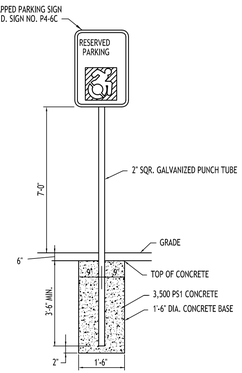
NOT TO SCALE



SYMBOL TO BE CENTERED IN PARKING SPACE

INTERNATIONAL HANDICAP SYMBOL - 4A

NOT TO SCALE

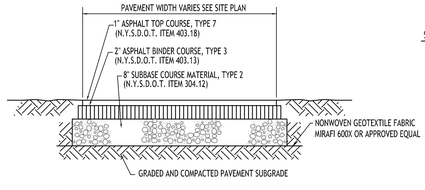


NOTES:
1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

GRASS/LAWN AREA

HANDICAPPED PARKING SIGN - 5

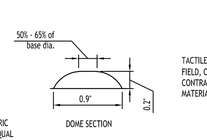
NOT TO SCALE



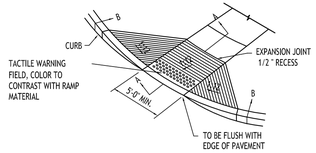
NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

STANDARD DUTY ASPHALT SECTION - 2

NOT TO SCALE

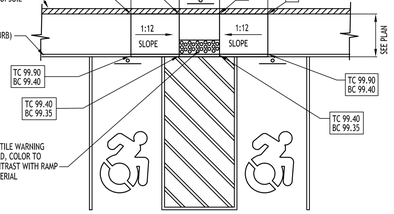


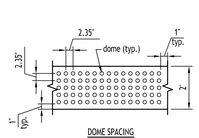
NOTE: TACTILE WARNING DEVICES SHALL BE PER ICC/ANSI A117.1-1998, SECTION 705.3.1.2 OR CURRENT UPDATE



SIDEWALK CURB RAMP - 8

NOT TO SCALE



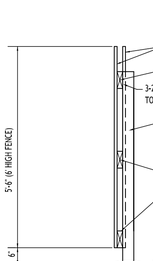


NOTE: TACTILE WARNING DEVICES SHALL BE PER ICC/ANSI A117.1-1998, SECTION 705.3.1.2 OR CURRENT UPDATE

NOTE: ELEVATIONS & DIMENSIONS SHOWN ARE TO ILLUSTRATE GRADE CHANGE ONLY, SEE SITE & GRADING PLAN FOR ACTUAL DATUM & DIMENSIONS

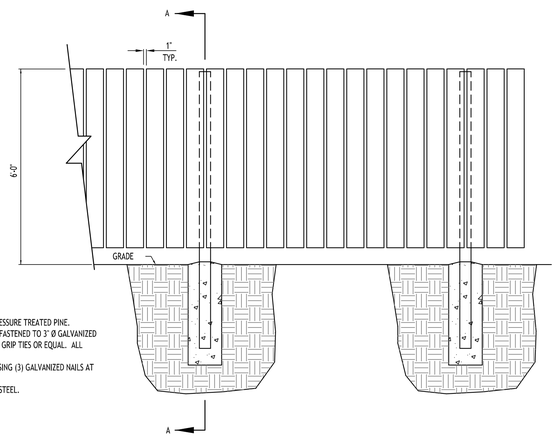
HANDICAPPED PAVEMENT RAMP - 10

NOT TO SCALE



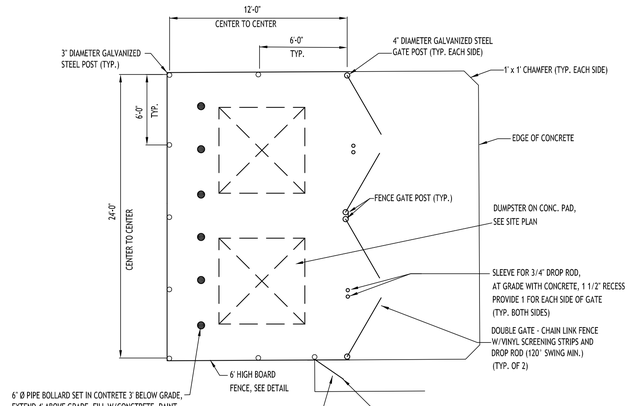
SECTION A-A

NOTES:
1. ALL WOODEN FENCE MATERIAL TO BE PRESSURE TREATED PINE.
2. CENTER, BOTTOM AND TOP RAILS TO BE FASTENED TO 3' Ø GALVANIZED STEEL FENCE POSTS USING SIMPSON PIPE GRIP TIES OR EQUAL. ALL HARDWARE TO BE GALVANIZED.
3. ATTACH EACH 1" X 6" BOARD TO RAILS USING (3) GALVANIZED NAILS AT EACH RAIL LOCATION.
4. WOOD POSTS CAN BE SUBSTITUTED FOR STEEL.

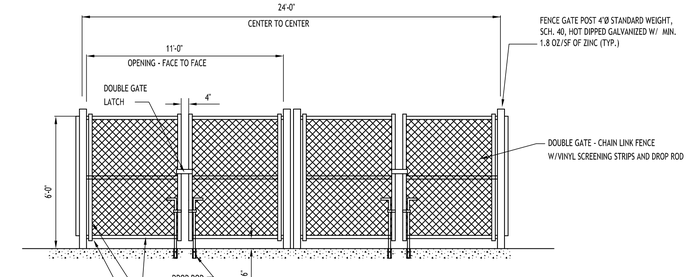


6' BOARD ON BOARD FENCE - 11

NOT TO SCALE



PLAN VIEW



CHAIN LINK FENCE GATE NOTES:

1. GATE POST FOOTINGS TO BE MIN. 36" DEEP x (4x) POST DIAMETER, EXTEND POST TO WITHIN 6" OF BOTTOM.
2. GATE FRAMES TO BE 2" SQ. GALVANIZED STEEL, WEIGHING 2.60 LB/FT IN ACCORDANCE WITH ASTM F 900.
3. CHAIN LINK FENCE FABRIC SHALL BE 2" MESH, 9 GAUGE, ZINC COATED STEEL CORE WIRE. INSTALL MESH WITH HOOK BOLTS AND TENSION BARS ON ALL 4 SIDES, ATTACH AT 15" MAX.
4. DOUBLE GATE LATCH TO BE FORKED TYPE CAPABLE OF RETAINING GATE IN CLOSED POSITION AND HAVE PROVISION FOR PAD LOCK. LATCH SHALL BE OPERABLE FROM EITHER SIDE OF GATE.
5. ALL HARDWARE TO BE HOT DIPPED GALVANIZED STEEL TO SUIT GATE SIZE.

FRONT VIEW

DUMPSTER ENCLOSURE - 7

NOT TO SCALE

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date

Attachment: SP-2025-05_082125 (30598 : SP-2025-05, 1692 Maple Road)

STATE OF NEW YORK
R. CHRISTOPHER WOOD
07639A
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Site Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-101

Project No: 24-4153

Packet Pg. 863

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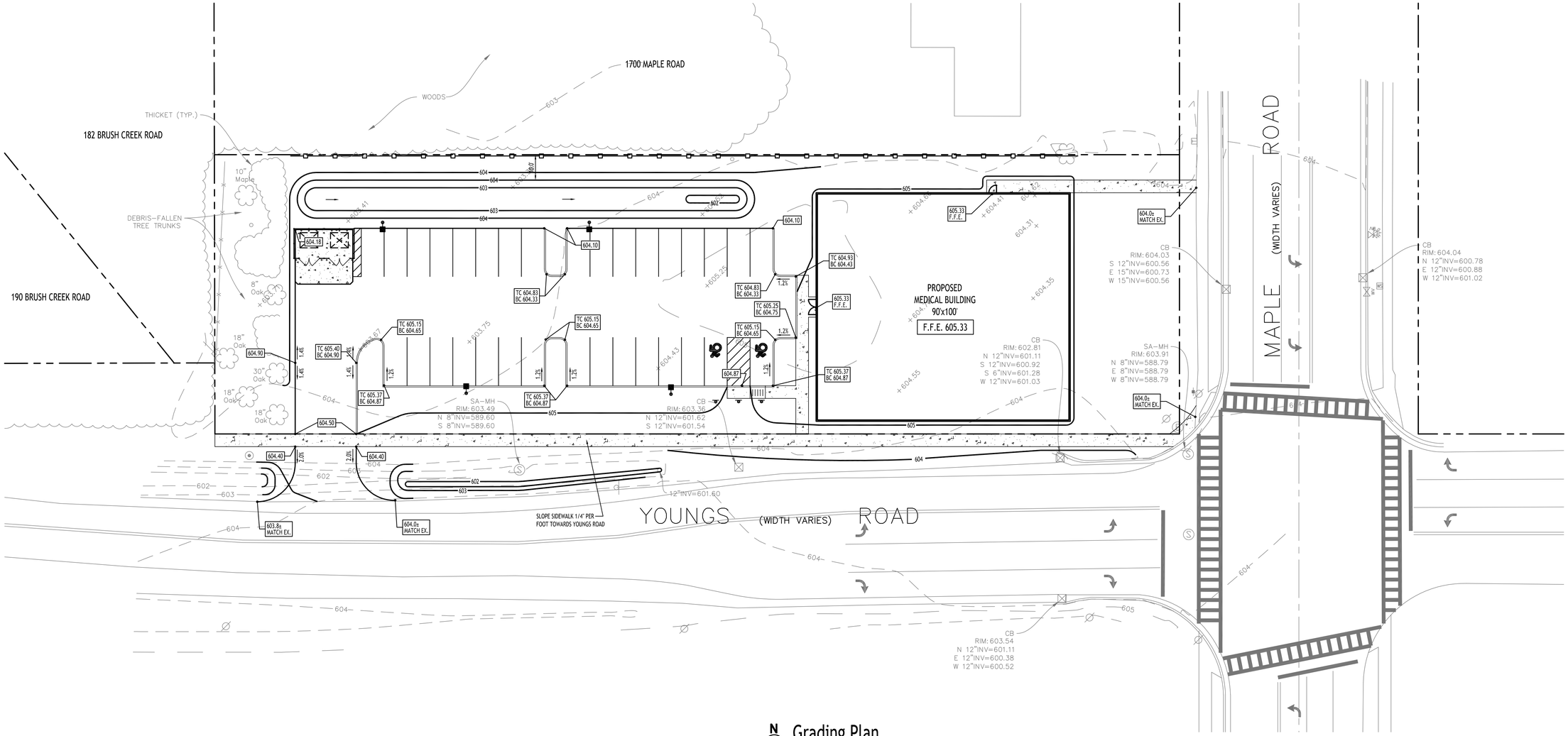

Grading Plan

SCALE: 1"=20'

PROPOSED GRADING LEGEND

PROPOSED CONTOUR	101
PROPOSED SPOT ELEVATION	100.00
PROPOSED TOP/BOTTOM OF CURB	TC 100.50 BC 100.00
PROPOSED CATCH BASIN	CB
PAVEMENT/GROUND SLOPE	
PROPOSED MANHOLE	MH
PROPOSED SWALE	

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20' 20 0 20 40Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	7/30/25

STATE OF NEW YORK
R. CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076394

DRAWING NAME:
Grading Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-200

Project No: 24-4153

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

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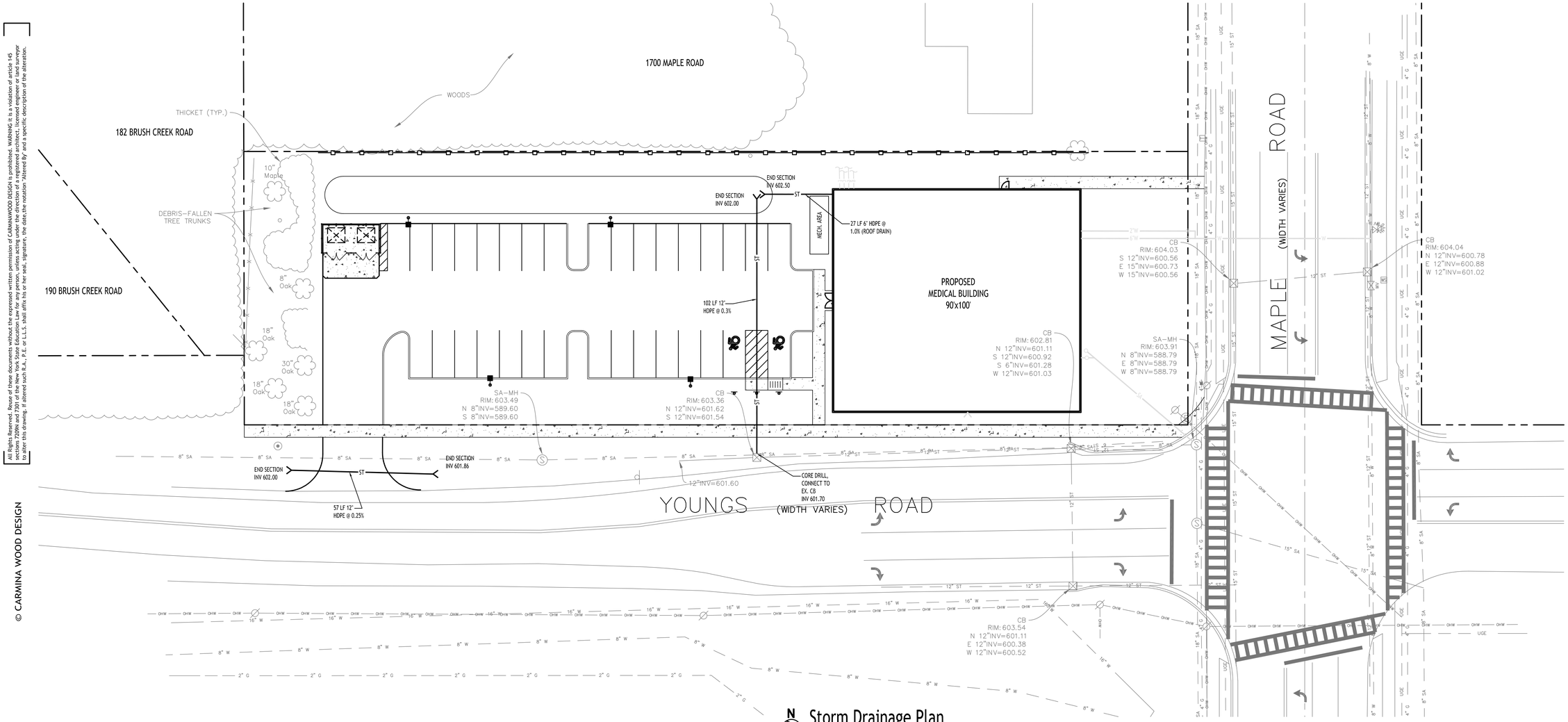

N

Storm Drainage Plan

SCALE: 1"=20'

PRE DEVELOPMENT STORMWATER EVENT SUMMARIES

Event	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
10-Year	2.25	4,725	1.36
25-Year	3.16	6,657	1.91

POST DEVELOPMENT STORMWATER EVENT SUMMARIES

Event	Runoff (cfs)	Volume (cubic-feet)	Elevation (ft)
10-Year	1.17	1,958	603.56
25-Year	1.32	2,738	603.89

PROPOSED STORM DRAINAGE LEGEND

- PROPOSED STORM PIPE — ST —
- PROPOSED PERFORATED STORM PIPE - - - - -
- PROPOSED CATCH BASIN ■
- PROPOSED MANHOLE ●
- PROPOSED CLEANOUT ○

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20 0 20 40Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date

STATE OF NEW YORK — R. CHRISTOPHER WOOD — 076394 — LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Storm Drainage Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-300

Project No: 24-4153

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

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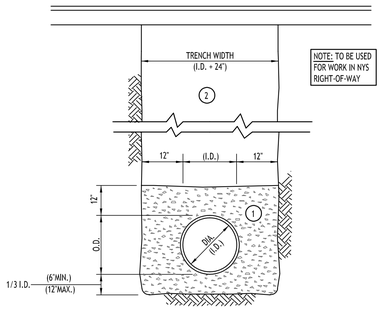


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

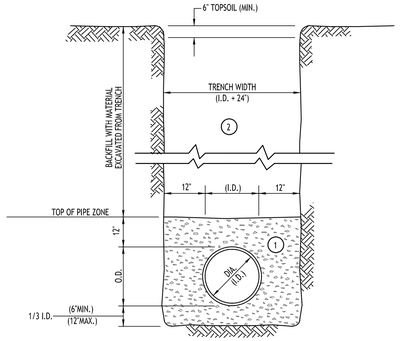
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

STORM SEWER TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

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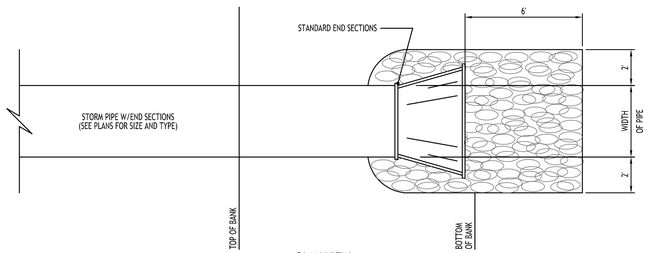
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

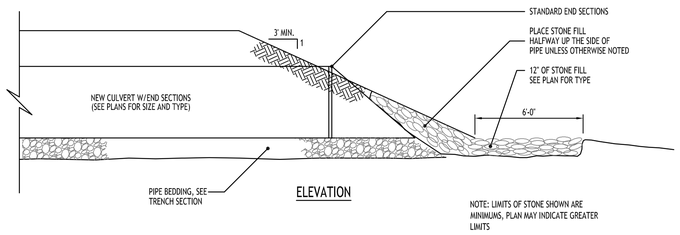
(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

STORM SEWER TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



PLAN VIEW



ELEVATION

NOTE: LIMITS OF STONE SHOWN ARE MINIMUMS, PLAN MAY INDICATE GREATER LIMITS

TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP

NOT TO SCALE

2.b

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

REVISIONS:

No.	Description	Date

STATE OF NEW YORK
P. CHRISTOPHER WOOD
087394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Storm Drainage Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-301

Project No: 24-4153

Packet Pg. 866

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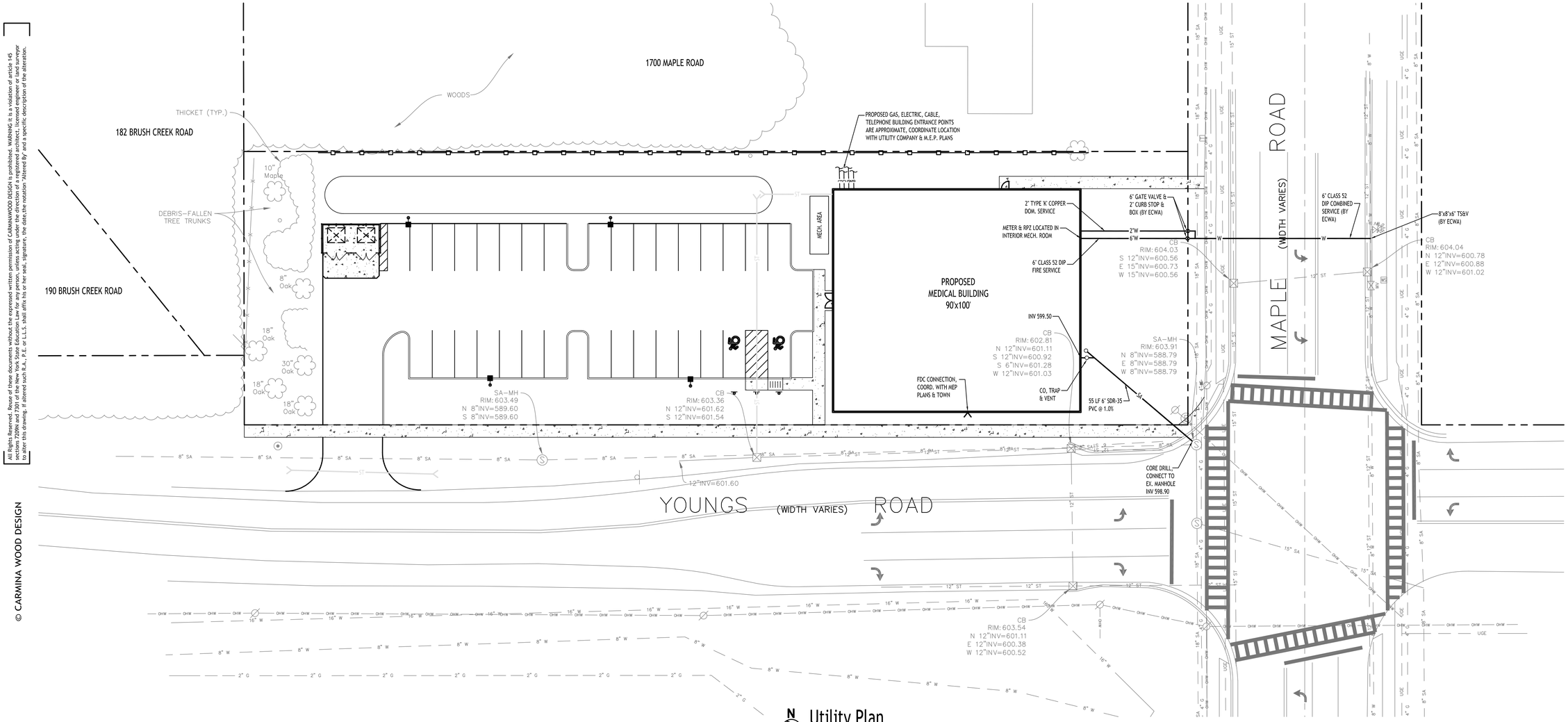

Utility Plan

SCALE: 1"=20'

UTILITY NOTES:

1. FOR ALL SANITARY SEWERS, INSTALL SELECT FILL IN PAVED AREAS, EXTEND 5' MIN. BEYOND PAVEMENT LIMITS
2. BUILDINGS TO HAVE INVERT ELEVATION 5' MIN. BELOW F.F.E. OF THE BUILDING. PIPE TO BE 6' SDR-35 PVC @ 1.0% MIN. WITH MIN 4' OF COVER. ADD CLEANOUTS @ 90' MAX. SPACING FOR 6' LATERALS OVER 90' IN LENGTH.
3. COORDINATE GAS & ELEC. METER BANK LOCATIONS ON BUILDINGS WITH M.E.P. PLANS & UTILITY CO.'S.
4. COORDINATE LOCATION OF CTV & TELEPHONE SERVICE TO BUILDINGS WITH M.E.P. PLANS AND UTILITY CO.'S.
5. ANY EXISTING UTILITIES WHICH ARE TO BE ABANDONED AND FALL UNDER PAVEMENT OR BUILDINGS SHALL BE REMOVED VS. BEING ABANDONED UNLESS THOSE UTILITIES ARE FILLED WITH FLOWABLE FILL.
6. A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
7. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH CONCRETE AND ASPHALT PAVEMENT AREAS.

NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE TOWN OF AMHERST SPECIFICATIONS AND DETAILS, AND ERIE COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS.
2. PRIOR STARTING ANY WORK ASSOCIATED WITH OR NEAR EXISTING SANITARY MANHOLES, THE CONTRACTOR SHALL MEET WITH THE TOWN OF AMHERST TO DISCUSS AND AGREE TO THE WORK.
3. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO INSTALLATION OF UTILITIES, AND MUST BE APPROVED BY THE SUPERVISING PROJECT ENGINEER.
4. ALL SANITARY SEWER IS TO CONSTRUCTION IS TO CONFORM TO TOWN OF AMHERST SEWER DISTRICT RULES AND REGULATIONS.
5. ALL OTHER REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER.

PROPOSED UTILITY LEGEND

PROPOSED WATER LINE	W
PROPOSED SANITARY SEWER	SA
PROPOSED UTILITY CONNECTIONS (GAS, ELEC., CABLE, TEL., ETC.)	
PROPOSED GATE VALVE	
PROPOSED CLEANOUT	
INSTALL SELECT BACKFILL	

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20 0 20 40Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

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1692 Maple Road
Amherst, NY

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No.	Description	Date
1	Rev. per Town comments	7/30/25

STATE OF NEW YORK
M. CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076394

DRAWING NAME:
Utility Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-400

Project No: 24-4153

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

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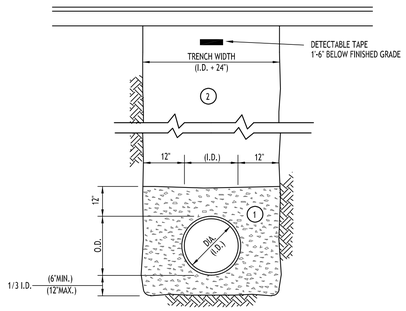

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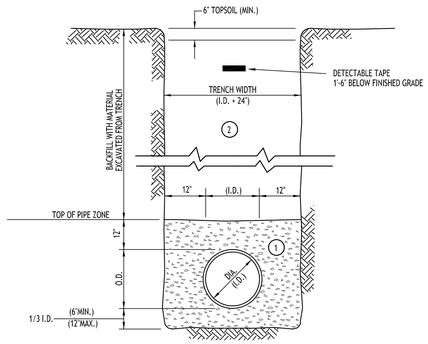
NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

SEWER/WATERLINE TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



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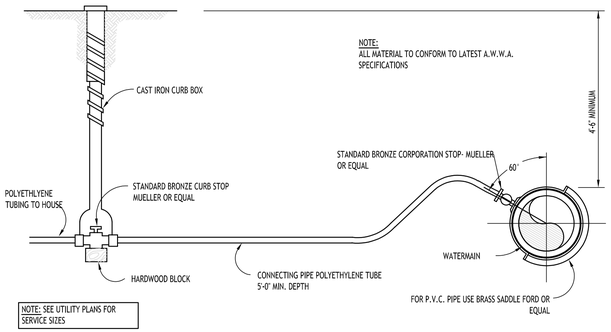
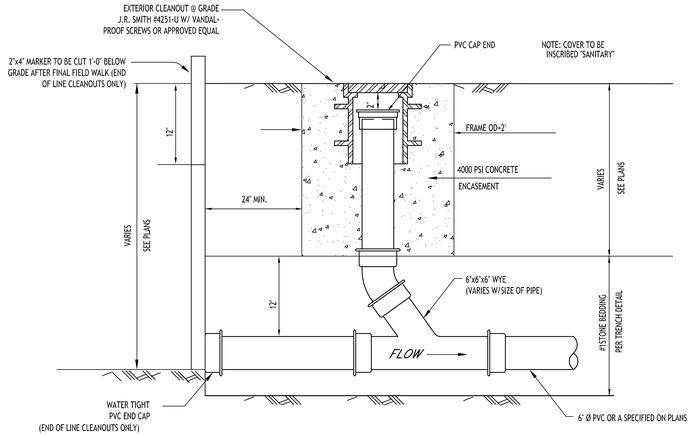


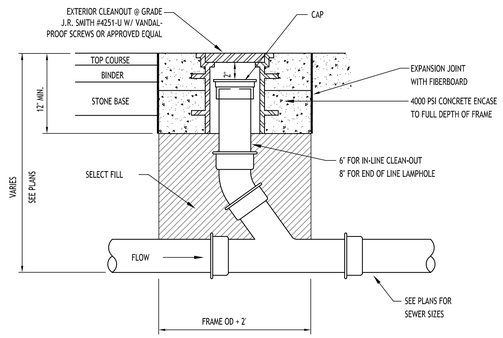
TYPICAL WATER SERVICE LINE INSTALLATION

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE



LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

NOT TO SCALE

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

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STATE OF NEW YORK
CHRISTOPHER NOCK
LICENSED PROFESSIONAL ENGINEER
076394

DRAWING NAME:

Utility Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-401

Project No: 24-4153

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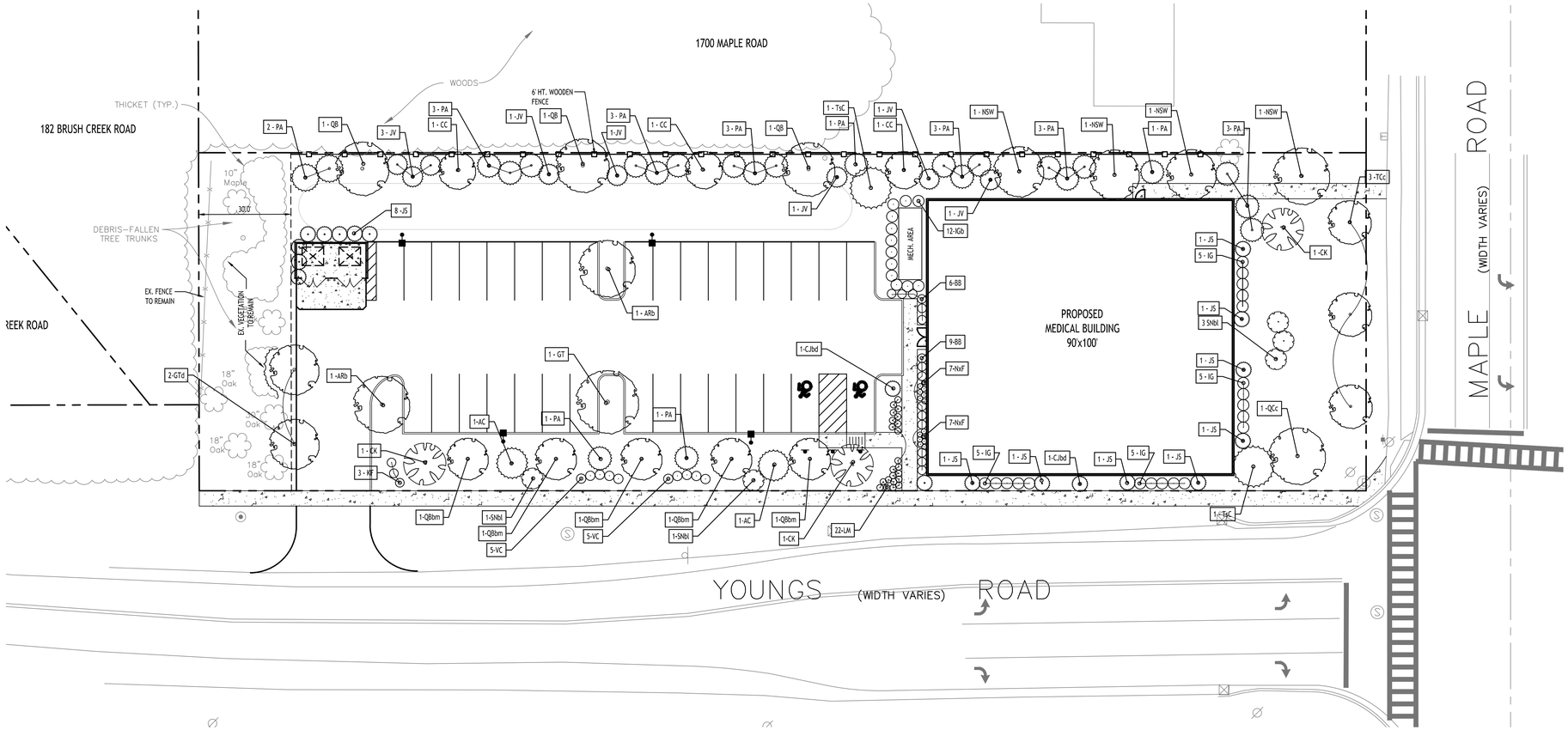
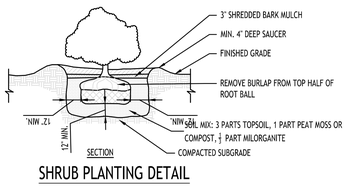
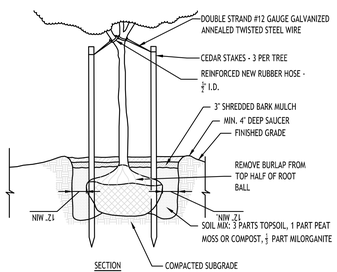


Landscape Plan

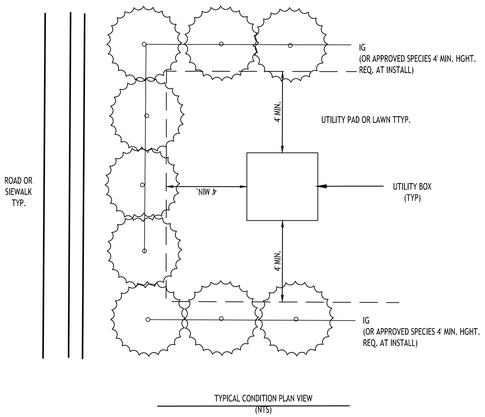
SCALE: 1"=20'



SHRUB PLANTING DETAIL



TREE PLANTING DETAIL



TYPICAL CONDITION PLAN VIEW (NTS)

NOTES:

1. USE EVERGREEN SHRUBS TO SCREEN ALL ABOVEGROUND UTILITY BOXES AND INFASTRUCTURE FROM ADJACENT ROAD OR SIDEWALK PER TOWN OF AMHERST CODE
2. PROVIDE A MINIMUM 4' OFFSET FROM THE SHRUBS PLANTED EDGE TO THE EDGE OF THE UTILITY BOX TO ALLOW ENOUGH CLEARANCE FOR UTILITY MAINTENANCE TO BE PERFORMED

TYPICAL SHRUB PLANTING TO SCREEN UTILITY INFASTRUCTURE

PLANTING NOTES:

1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH. LOCATIONS TO BE COORDINATED IN FIELD WITH OWNER REP.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS. SEASONAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS. LOCATIONS TO BE COORDINATED IN FIELD WITH OWNER REP.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

Plant Finish Schedule -1692 Maple Road -Amherst, New York

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
		D E C I D U O U S T R E E S			
ARb	2	Acer rubrum 'Bowhall"	Red Maple -Bowhall	2 1/2" - 3" CAL.	B&B, HT. 40', W 35'
GT	1	Gleditsia triacanthos 'Inermis'	Honey locust - Skyline	2 1/2" - 3" CAL.	B&B, HT. 40', W 35'
GTd	5	Gleditsia triacanthos i. "Draves" PP21698	Draves Honey Locust	2 1/2" - 3" CAL.	B&B, HT. 45', W 20'
NSW	3	Nyssa sylvatica 'Wildfire'	Wildfire Tupelo	2 1/2" - 3" CAL.	B&B, HT. 35', W 18'
QB	3	Quercus bicolor	Swamp White Oak	2 1/2" - 3" CAL.	B&B, HT. 60', W 40'
QBbm	5	Quercus bicolor 'Bonnie & Mike'	Bonnie & Mike Oak	2 1/2" - 3" CAL.	B&B, HT. 40', W 15'
QCc	2	Quercus coccinea	Scarlet Oak	2 1/2" - 3" CAL.	B&B, HT. 50', W 25'
QPgp	2	Quercus palustris 'Green Pillar'	Green Pillar Pin Oak	2 1/2" - 3" CAL.	B&B, HT. 35', W 18'
TCc	3	Tilia cordata corinthian	Corinthian Linden	2 1/2" - 3" CAL.	B&B, HT. 35', W 18'
		S M A L L / O R N A M E N T A L T R E E S			
CC	3	Cercis canadensis	Redbud	1 1/2" x 2 1/2" CAL.	B&B, HT.20', W 25'
CK	3	Cornus kousa	Kousa Dogwood	1 1/2" x 2 1/2" CAL.	B&B, HT. 20', W 20'
		E V E R G R E E N T R E E S			
AC	2	Abies concolor	White Fir	6-8' Tall	B&B, HT. 60', W 20'
CJbd	3	Cryptomeria Japonica 'Black Dragon'	Back Dragon Japanese cedar	6-8' Tall	B&B, HT. 20', W 8'
JS	16	Juniperus scopolarum 'Skyrocket'	Skyrocket Juniper	6-8' Tall	B&B, HT. 16', W 4'
JV	8	Juniperus virginiana 'Emerald Sentinel'	Eastern Red Cedar	6-8' Tall	B&B, HT. 20', W 8'
PA	24	Picea abies 'Hillside upright'	Norway Spruce - Upright	6-8' Tall	B&B, HT. 20', W 8'
TsC	2	Tsuga canadensis	Eastern Hemlock	6-8' Tall	B&B, HT. 20', W 8'
		S H R U B S			
IGc	32	Ilex glabra compacta	Inkberry Holly - Compact	24-36" Tall	B&B, HT. 4', W 4'
SNbl	5	Sambucus nigra "black lace"	Black Lace Eldeberry	24-36" Tall	B&B, HT. 4', W 3'
VC	10	Viburnum carlesii	Korean Spice Viburnum	24-36" Tall	B&B, HT. 4', W 4'
		G R A S S E S / P E R E N N I A L S / G R O U N D C O V E R S			
BB	15	Andropogon Gerardii	Big Blue Stem Andropogon	24-36" Tall	Cont. #3, HT. 4', W 6'
KF	3	Calamagrostis x acutiflora	Karl Foerster Reed Grass	24-36" Tall	Cont. no.3 - 3'Tall, 3'Wide
LM	22	Liriope muscari	Big Blue Lilyturf	12-16" Tall	Cont. no.3 - 3'Tall, 3'Wide
NxF	14	Nepeta x faassineii	Walker's Low Catmint	18-24" Tall	Cont. no.3 - 2'Tall, 3'Wide

30 Ft. Dedicated Vegetative Preservation Area

Size of Existing Tree that is Preserved		Credits Toward Number of Required New Trees
Deciduous Trees (DBH)	Evergreen Trees (height)	
Less than 4 in.	Less than 5 ft.	0.5
4 in. or more but less than 6 in.	5 ft. or more but less than 10 ft.	1
6 in. or more but less than 12 in.	10 ft. or more but less than 15 ft.	2
12 in. or more	15 ft. or more	3

The Preservation area has 2 trees with an 8" and 10" trunk – and 4 trees with 18-24" trunk diameter – these trees are all in good condition. The credit towards number of required new trees = (2x2) + (4x3) = **16 Trees Total Credit.**

PER TOWN OF AMHERST CODE:
ALL REFUSE CONTAINERS & ALL MECHANICAL EQUIPMENT, UTILITY STRUCTURES, MULTIPLE METER BOARDS, GENERATORS, RPZ'S, & SIMILAR APPURTENANCES, INCLUDING THOSE WHICH ARE MOUNTED ON ANY PART OF A PRIMARY STRUCTURE SHALL BE SHOWN ON THE SITE PLAN & APPROPRIATELY SCREENED W/ A FENCE, WALL, &/OR LANDSCAPING AS REQUIRED BY 203-7-2-4(C) & 203-7-2-4(D) OF TOWN CODE. SUCH SCREENING SHALL BE SHOWN ON THE PLANS SUBMITTED FOR REVIEW. PROVIDE GATE ON REFUSE ENCLOSURE THAT SHALL BE CLOSED WHENEVER REFUSE CONTAINER(S) ARE NOT BEING SERVICED & ENCLOSURE SHALL BE HIGH ENOUGH TO SCREEN THE REFUSE CONTAINERS WITHIN.

PER TOWN OF AMHERST CODE:
CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK, AND LIMB DAMAGE; INCLUDING BY NOT LIMITS TO, RETAIN WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS AS PER ZONING ORDINANCE 7-2-3(B)(3).

PER TOWN OF AMHERST CODE:
ALL DEAD OR MISSING EXISTING PLANTS FROM THE PREVIOUSLY APPROVED SITE PLANS SHALL BE REPLACED/INSTLALED AS PER ZONING ORDINANCE 7-2-3(A)(1).
CONTRACTOR SHALL REFER TO PREVIOUSLY APPROVED SITE AND LANDSCAPE PLANS BY OTHERS FOR ALL LANDSCAPE REFERENCES.

LANDSCAPE NOTES:

1. ALL PLANTS INSTALLED SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED ON THE PLANS AND IN THE LATEST EDITION ON THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI 260.1
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF, THE QUANTITIES SHOWN ARE A MINIMUM AND ARE FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANTING MATERIAL LOCATIONS AND CONTACT THE OWNERS FIELD REPRESENTATIVE PRIOR TO ACTUALL INSTALLING. THE PLANTING MATERIAL LOCATIONS SHOWN ON THE PLANS ARE TO CONVEY THE DESIGN INTENT ONLY, ACTUAL LOCATIONS WILL BE FINALIZED BY THE OWNERS FIELD REPRESENTATIVE AT THE TIME OF INSTALLATION.
4. THE CONTRACTOR IS HEREBY NOTIFIED THAT IF UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE PLANTINGS, ALL PROPOSED PLANTINGS SHALL BE INSTALLED A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY, CONTACT THE OWNERS FIELD REPRESENTATIVE IF PLANTINGS SHOWN ON THE PLANS VIOLATE THIS SITUATION.
5. ALL TREES SHALL BE INSTALLED A MINIMUM OF 20' FROM ANY OVERHEAD ELECTRIC LINES.
6. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 4 PARTS TOPSOIL, 1 PART PEAT MOSS, ⅓ PART WELL ROTTED MANURE, 10 LBS 5-10-5 PLANTING FERTILIZER THOROUGHLY MIXED PER CUBIC YARD.
7. STAKE AND WRAP TREES IMMEDIATELY FOLLOWING INSTALLATION.
8. ALL PLANTED AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED PINE BARK MULCH OVER 10 MIL. WEED MAT EQUAL TO "WEEDBLOCK" BY EASY GARDENER OR DEWITT WEED BARRIER.
9. THE AREAS ON THE PLAN TO BE SEEDED SHALL HAVE 4" MINIMUM OF TOPSOIL, DISK PLOWED, LEVELED AND HAND RAKED SMOOTH. SURFACE SHALL BE ROLLED TO REMOVE LUMPS.
10. ALL SEEDED AREAS SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE SPECIFICATION INDICATED. WHERE REQUIRED BY CLIMATIC CONDITIONS, SLOPE OR SEASON OF PLANTING, SOD MAY BE SUBSTITUTED FOR SEEDING IN ORDER TO ACHIEVE THE REQUIRED COVERAGE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MOWING AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER, THIS SHALL INCLUDE WATERING DAILY FOR 15 DAYS OR AS REQUIRED BY WEATHER CONDITIONS AND RE-SEEDING OF THIN SPOTS FOLLOWING THE GERMINATION OF THE SEEDS.

PLANTING NOTES:

1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SCREENED TOPSOIL. SEASONAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20 0 20 40Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	7/30/25

Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
2765 Dodge Road , East Amherst, NY 14051-2113
Phone: 716-364-5564
RCW.LandscapeArchitect@gmail.com

DRAWING NAME:

Landscape Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

L-100

Project No: 24-4153

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

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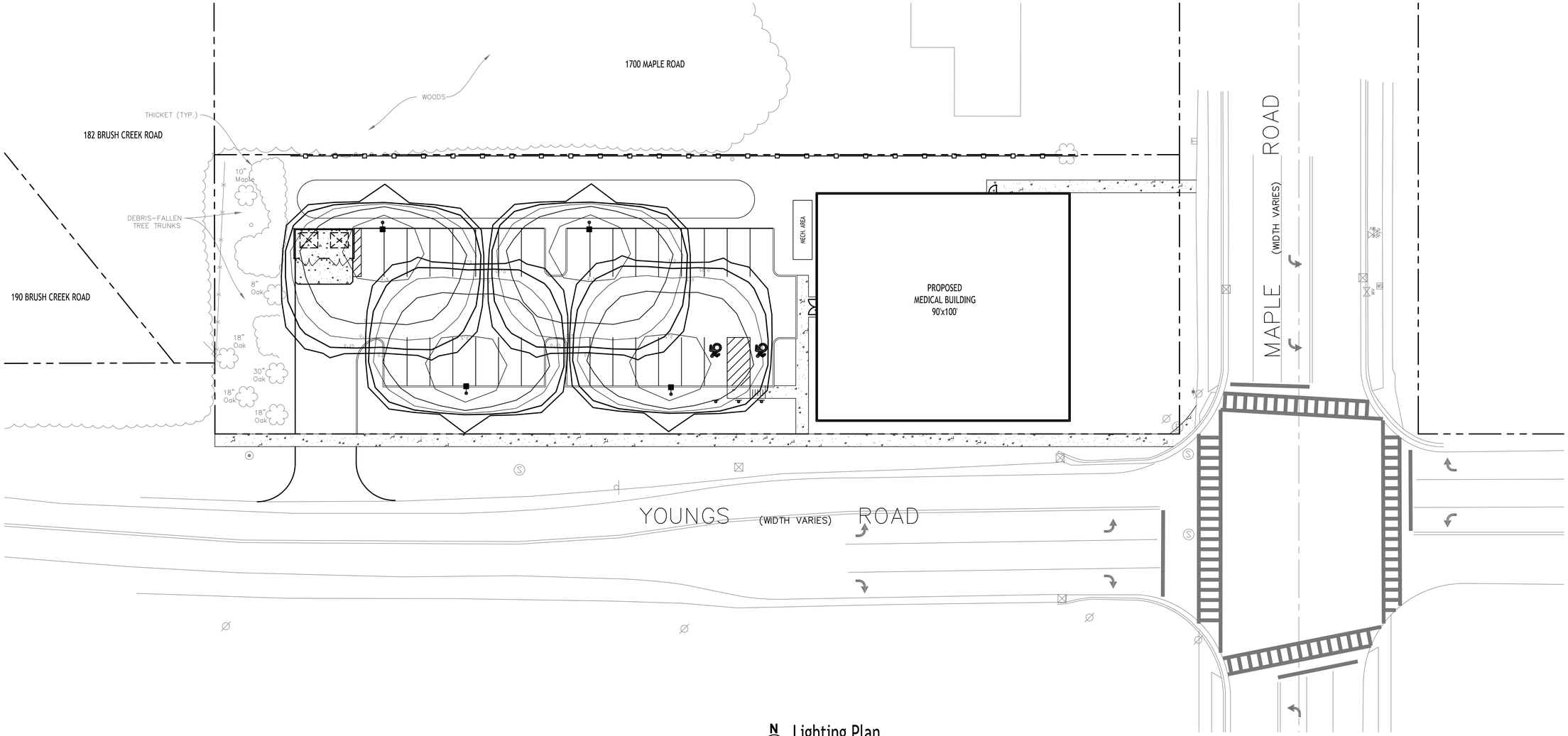

N

Lighting Plan

SCALE: 1"=20'

Luminaire Schedule			
Symbol	Qty	Label	Description
	4	S1	EALS03_D4AF740

NOTE:

1. ALL SITE LIGHTING TO BE DARK SKY COMPLIANT AND FIXED AT 90 DEGREES. LIGHT POLES TO BE MOUNTED AT 15 FT.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20' 20 0 20 40Ft.

CARMINAWOOD DESIGN
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Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date

STATE OF NEW YORK
R. CHRISTOPHER WOOD
070394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Lighting Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

LP-100

Project No: 24-4153

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

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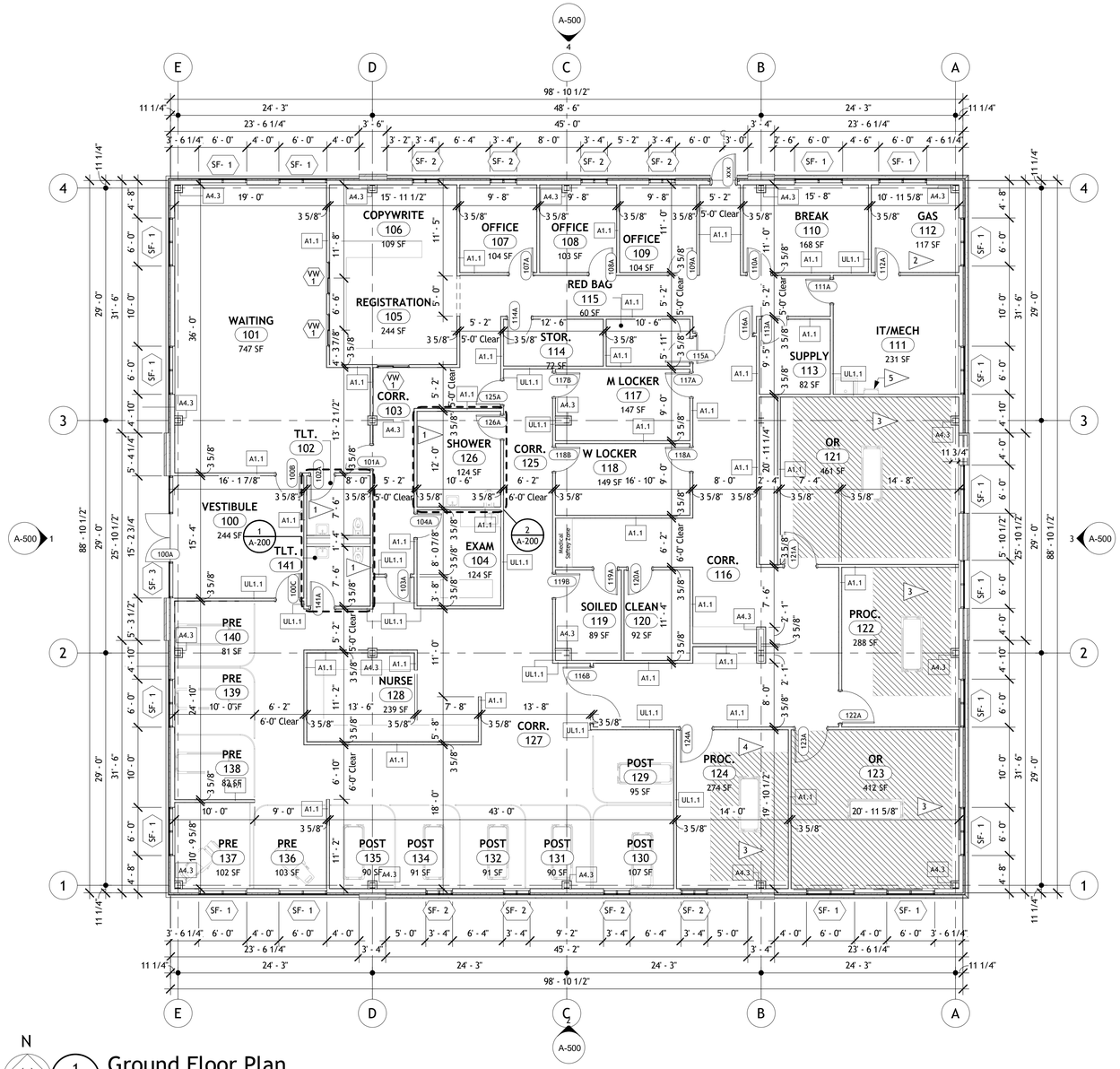

N

1 A-101 Ground Floor Plan

1/8" = 1'-0"

General Floor Plan Notes

A. DO NOT SCALE DRAWINGS. If there is a dimension that is not shown on the construction documents that requires clarification, request that clarification of the Architect.
B. The Contractor shall verify all dimensions, grades, boundaries, and construction documents and immediately report any discrepancies to the architect.
C. All work shall conform to the requirements of all Local, State and Federal codes. Local, State and Federal Codes are to take precedence over the drawings and specifications. If discrepancy is noted, inform the Architect immediately and before proceeding with the work.
D. All dimensions, notes, finishes and fixtures shown on typical floor plans, sections and details shall apply to all similar, opposite hand, or symmetrical plans, sections or details.
E. All dimensions are to face of stud, unless otherwise noted.
F. All new walls shall be aligned with the center or nearest edge (as indicated on drawings) of walls, columns, window openings, etc. unless otherwise noted.
G. The contractor shall confine operations at the site to areas indicated on the drawings and shall not encumber the site with material and equipment.
H. Failure to show of mention minor details shall not be warrant for omission of necessary appurtenances for the normal, usual or proper completion of the Work.
I. All Finishes not involved in areas of Construction shall be protected in such a manner that when the work is complete the finishes would be in the same condition they were before the work started. Any unfortunate damage to existing to remain will be restored at no additional cost to the Owner.
J. Smoke Tight: areas indicating smoke tight construction shall meet requirements of the local adopted building code. Penetrations and Joints shall be filled with an approved material to limit the free passage of smoke, such as fire rated spray foam.
K. If not noted on A-Series drawings please refer to Interior drawings for information on all interior finishes and millwork in the project (I-100, I-101...).

Floor Plan Legend

- X — New wall construction
- XXX — New door to be installed size as spec'd, type by owner
- New interior/view window to be installed size as spec'd, type by owner
- New exterior window to be installed size as spec'd, type by owner
- SF- x — New curtainwall/storefront to be installed size as spec'd, type by owner

Floor Plan Keynotes

1. Area to receive mold resistant gypsum as spec'd
2. Gas room shall comply with section 427 Medical Gas Systems in BCNYS 2020. Room shall be rated and vented as required.
3. Operating room safety traffic pathway.
4. Operating room equiptment area.
5. Roof access ladder. Refer to A-400s for details.

CARMINA WOOD DESIGN
Buffalo | Utica | Greensboro

DSG-01

Buffalo Spine and Pain Center

1692 Maple Road,
Amherst, NY 14221

REVISIONS:

No.	Description	Date

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

DRAWING NAME:

Ground Floor Plan

Date: 03/21/20
Drawn By: A.Philipp
Checked By: J.Dorobia

DRAWING NO.

A-101

Project No: 24.1100

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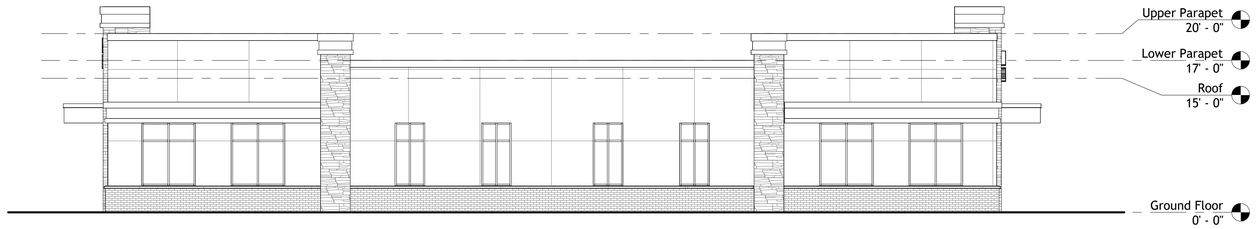
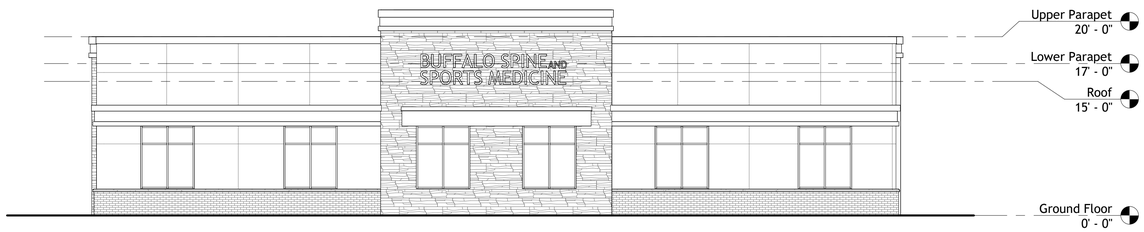
1 A-500 North Elevation (Parking)

1/8" = 1'-0"



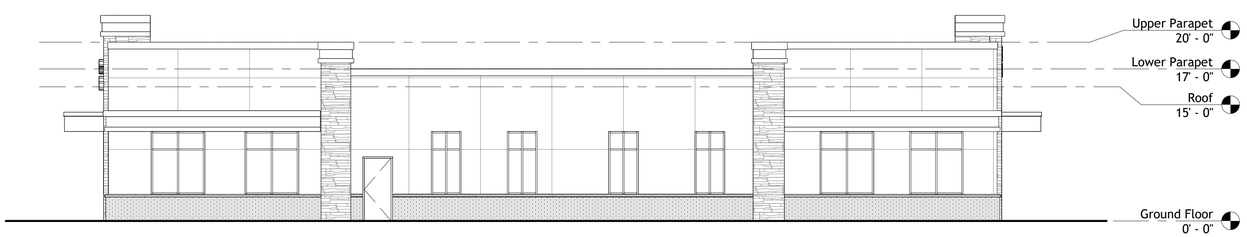
2 A-500 West Elevation (Youngs)

1/8" = 1'-0"



3 A-500 South Elevation (Maple)

1/8" = 1'-0"



4 A-500 East Elevation

1/8" = 1'-0"

Exterior Finish Schedule

Callout	Pattern	Material	Description
1		Brick	Brick Texture: To be selected Color: To be selected
2		Brick Soldier Course	Brick Soldier Course Texture: To be selected Color: To be selected
3		Fiber Cement Panel	Fiber Cement Panel Manuf: To be selected Color: To be selected
4		Fiber Cement Trim Board	Fiber Cement Trim Board Manuf: To be selected Color: To be selected
5		Concrete	Concrete Texture: To be selected Color: To be selected
6		Glass	Glass Transparency: To be selected Color: To be selected
7		Spandrel Glass	Spandrel Glass Transparency: To be selected Color: To be selected
8		Aluminum Flashing	Aluminum Flashing Manuf: To be selected Color: To be selected

NOTES:

A. **IMPORTANT!** Before final ordering of materials, coordinate color schemes with architect via use of exterior elevations in color.

B. Refer to written specifications for further requirements for each exterior finish listed above, including finishes for doors and windows.

C. ALL exterior dis-similar materials shall be caulked weather tight with silicone caulk, color to match adjacent materials. Contractor shall coordinate all colors selection of caulk to be used on the job with the Architect using elevations for location and application.

Elevation Keynotes

1. Awnings to be selected by owner.
2. Balcony railings as spec'd. Refer to balcony details on A-xxx.
3. Exterior signage to be provided by owner.
4. Roof overhang. Refer to x/A-6xx.

Exterior Symbol Legend

- Exterior Sconce
  All Exterior sconces shall be 6'-0" above finish floor unless otherwise noted. Coordinate with Electrical for specs & locations.
- Emergency Wall Pack
  Coordinate with Electrical for specs & locations.
- Electrical Switch Gear
  Coordinate with Electrical for specs & locations.
- Gas Meters
  Coordinate with Plumbing for specs & locations.
- Hose Bib
  Coordinate with Plumbing for specs & locations.
- FDC
  Coordinate with Plumbing for specs & locations.
- Knox Box
  Coordinate with Fire Protection for specs & locations.
- ADA Push Button
  Coordinate with Electrical for specs & locations.
- Louver
  Coordinate with Mechanical for specs & locations.
- Overflow discharge
  Coordinate with Plumbing for specs & locations.

Note: Coordinate with Electrical for specs & locations of all light fixtures.

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DSG-01

Buffalo Spine and Pain Center

1692 Maple Road,
Amherst, NY 14221

REVISIONS:

No.	Description	Date

DRAWING NAME:

Exterior Elevations

Date: 03/21/20
Drawn By: A.Farrell
Checked By: J.Dorobia

DRAWING NO.

A-500

Project No: 24.1100

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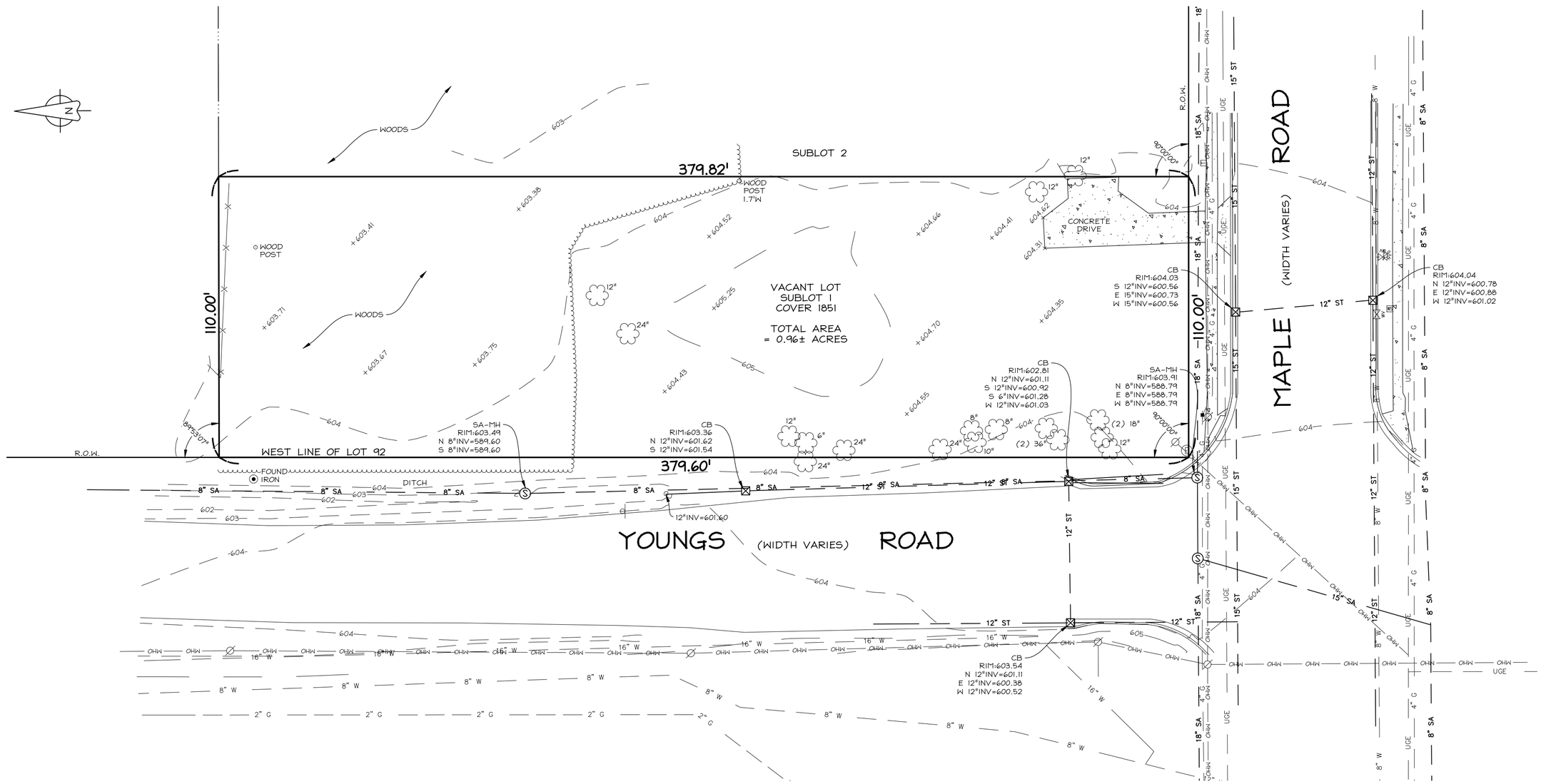


NOTES

1. ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. HORIZONTAL DATUM REFERENCES THE NORTH AMERICAN DATUM 1983 (NAD 83) - NEW YORK STATE PLANE WEST ZONE.
3. THE LOCATION OF ANY UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION ACTIVITIES, ALL UTILITY COMPANIES SHOULD BE NOTIFIED IN ORDER TO VERIFY OR AMEND THEIR LOCATIONS AND/OR EXISTENCE. FOR ASSISTANCE CALL UFPO AT 1-800-962-7962.
4. UDIGNY.ORG DESIGN TICKET No. 10114-000-513 WAS SUBMITTED TO REQUEST UTILITY RECORDS:

- CHARTER COM NORTHEAST WESTERN NY: HAS RESPONDED, CLEAR NO FACILITIES WITHIN 15FT OF THE EXCAVATOR DEFINED WORK AREA.
- ERIE COUNTY WATER AUTHORITY: HAS RESPONDED, DRAWN HERON.
- NATIONAL FUEL GAS / CLARENCE NFG-113: HAS RESPONDED, DRAWN HERON.
- NATIONAL GRID: HAS RESPONDED, DRAWN HERON.
- TOWN OF AMHERST:
  FIBER: HAS NOT RESPONDED.
  SANITARY:HAS RESPONDED, DRAWN HERON.
- VERIZON / BUFFALO: HAS RESPONDED, DRAWN HERON.

LEGEND

HYDRANT	UTILITY POLE
WATER VALVE	ELECTRICAL MANHOLE
WATER SERVICE VALVE	SIGN
SANITARY MANHOLE	GAS MARKER
CATCH BASIN	
W	UNDERGROUND WATER
SA	UNDERGROUND SANITARY SEWER
ST	UNDERGROUND STORM SEWER
G	UNDERGROUND GAS LINE
OHW	OVERHEAD WIRES
UGE	UNDERGROUND ELECTRIC WIRES
	TREE LINE

THIS SURVEY IS NOT VALID WITH AN AFFIDAVIT OF NO CHANGE

NO IRONS SET OR FOUND AT PROPERTY CORNERS UNLESS NOTED HEREON

3556 Lake Shore Road, Suite 500, Buffalo, NY 14219
p (716) 827-8000 f (716) 270-6091 www.nussclarke.com

This survey was prepared without the benefit of an abstract of title and is subject to any state of facts that may be revealed by an examination of such.

Unauthorized alterations or additions to any survey, drawing, design, specification, plan or report is a violation of section 7209, provision 2 of the New York State Education Law.

NUSSBAUMER & CLARKE, INC. ENGINEERS AND SURVEYORS EST. 1933

TOPOGRAPHIC SURVEY

1692 Maple Road - Vacant Lot

Part of Lot 92, Township 12, Range 7
Holland Land Company's Survey
Town of Amherst
County of Erie, State of New York

Date of Survey: 10/23/2024 Scale : 1" = 30'

Project No. : 24J2-1498

NIAGARA FRONTIER LAND SURVEYORS 19 60 Association Inc. MEMBER

Attachment: SP-2025-05_drawings_082125 (30598 : SP-2025-05, 1692 Maple Road)

CARMINA WOOD
DESIGN

ENGINEER'S REPORT

for

Proposed Medical Building
1692 Maple Road
Town of Amherst, Erie County, New York

Prepared for

1692 Maple Road LLC

1692 Maple Road
Buffalo, NY 14221

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

Telephone: (716) 842-3165
Fax: (716) 842-0263

June 2025
rev. July 2025
rev. August 2025



Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Table of Contents

Written Engineer's Report

Section 1 - Location & Description
Section 2 - Water Service
Section 3 - Sanitary Sewer Service
Section 4 - Storm Sewer Service

Appendices

Appendix A Sanitary Sewer and Water Demand Calculations

Appendix B Storm Sewer System Drainage Calculations

- Existing Runoff
- Proposed Runoff

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Section 1 - Location & Description

This project is a development of an existing vacant 0.9 acre site located 1692 Maple Road in the Town of Amherst. Construction will consist of a 9,000 sf surgical center with associated site, utility and landscaping improvements. Currently the site is vacant. The proposed site development area to be disturbed for this project is approximately 0.8 acres when construction is completed.

Section 2 - Water Service

Water service for the site will be tapped off the existing 8" Erie County Water Authority water main on the south side of Maple Road. The proposed service will be a 2" type k copper domestic water service. This service will continue into an interior mechanical room housing the meter and RPZ. Proper heat and lighting will be provided in the enclosure, drainage due to testing or failure of the RPZ will be to the exterior grade. The owner will be responsible for keeping the drainage ports clear of snow and debris. Water inside the building will be used for typical domestic uses.

Domestic Summary:	
Peak Operating Demand:	7.33 gpm
Water Main:	8" on Maple Road
Static Pressure:	82 psi (per ECWA)
Friction Loss:	0.0 psi
Loss through meter/RPZ:	13.1 psi
Elevation Loss:	0.0 psi
Pressure after RPZ:	68.9 psi

Section 3 - Sanitary Sewer Service

Proposed is a 6" SDR-35 PVC private sanitary sewer lateral, connected to the existing public sanitary sewer main along the west side of Youngs Road.

Design Parameters

Doctors:	250 gal/day/doctor x 4 doctors = 1,000 gpd
Employees:	15 gal/day/employee x 10 employees = 150 gpd
Outpatient:	30 gal/day/outpatient x 15 outpatient = 450 gpd

1,600 gpd * 4.39 = 7,028 gpd *use peaking factor of 4.39

The hydraulic loading rate is per "Design Standards for Intermediate Sized Wastewater Treatment Systems" 2014, NYSDEC, number of students is based on maximum capacity of the proposed building.

Section 4 - Storm Sewer Service

The existing site currently sheet drains in multiple directions either to neighboring properties or public storm sewer systems on either Maple Road or Youngs Road.

Stormwater runoff collected onsite as a result of the proposed development will be routed to an onsite dry detention basin. An 8" outlet control pipe will be provided downstream of the dry detention basin. Discharge from the outlet pipe will connect to the existing storm sewer system on Youngs Road.

Town of Amherst Requirement:
The Town of Amherst requires that the 25-year proposed storm event be attenuated with detention and that the outlet be restricted to the 10-year existing storm event. This volume of 2,738 cf is

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

accommodated in the detention basin at elevation 603.89. At this elevation, the outlet discharge will be restricted to 1.32 cfs, which is less than the existing 10-year peak runoff outflow of 2.25 cfs.

Detention: Comparison of the existing 10-year vs. the proposed 25-year runoff

RUNOFF SUMMARY

EVENT	EX. RUNOFF (cfs)	PRO. RUNOFF (cfs)	RESULT (cfs)
10-year	2.25	1.17	-1.08
25-year	3.16	1.32	-1.84

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Appendix A

Sanitary Sewer and Water Demand Calculations

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

CARMINA WOOD DESIGN
80 Silo City Row, Suite 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 24-4153 Date: 6/23/2025
Project Name: Proposed Medical Building rev. 8/15/25
Project Address: 1692 Maple Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 2

Sanitary Sewage Demand Calculations:

250	gal/d/doc	x	4	doc	=	1,000	gpd	*use 250 gallons per doctor per day
15	gal/d/emp	x	10	emp	=	150	gpd	*use 15 gallons per employee per day
30	gal/d/out	x	15	out	=	450	gpd	*use 30 gallons per outpatient per day

Total Site Sanitary Demand: = 1,600 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 1,600 gpd / 100 gpcd = 16 per capita

Population (P) = 16 people

Peaking Factor : (18 +√P) / (4 + √P) where P is in thousands

Peaking Factor = 4.39

Peak Sanitary Demand = 1,600 x 4.39 = 7,028 gpd
= 0.007 MGD
= 0.011 cfs

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

CARMINA WOOD DESIGN
80 Silo City Row, Suite 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 24-4153 Date: 6/23/2025
Project Name: Proposed Medical Building rev. 8/15/25
Project Address: 1692 Maple Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 2 of 2

2.c

Water Demand Calculations (domestic):

Medical Building

1,600 gpd x 1.1 = 1,760 gpd *peaking factor of 3 based on ECDOH and ECWA standards

*use 3 peaking factor and assume a 12 hour day

1,760 gpm x 1day/12hr x 1hr/60min = 2.44 gpm

2.44 gpm x 3.0 = 7.33 gpm Q_{peak}

Headlosses:

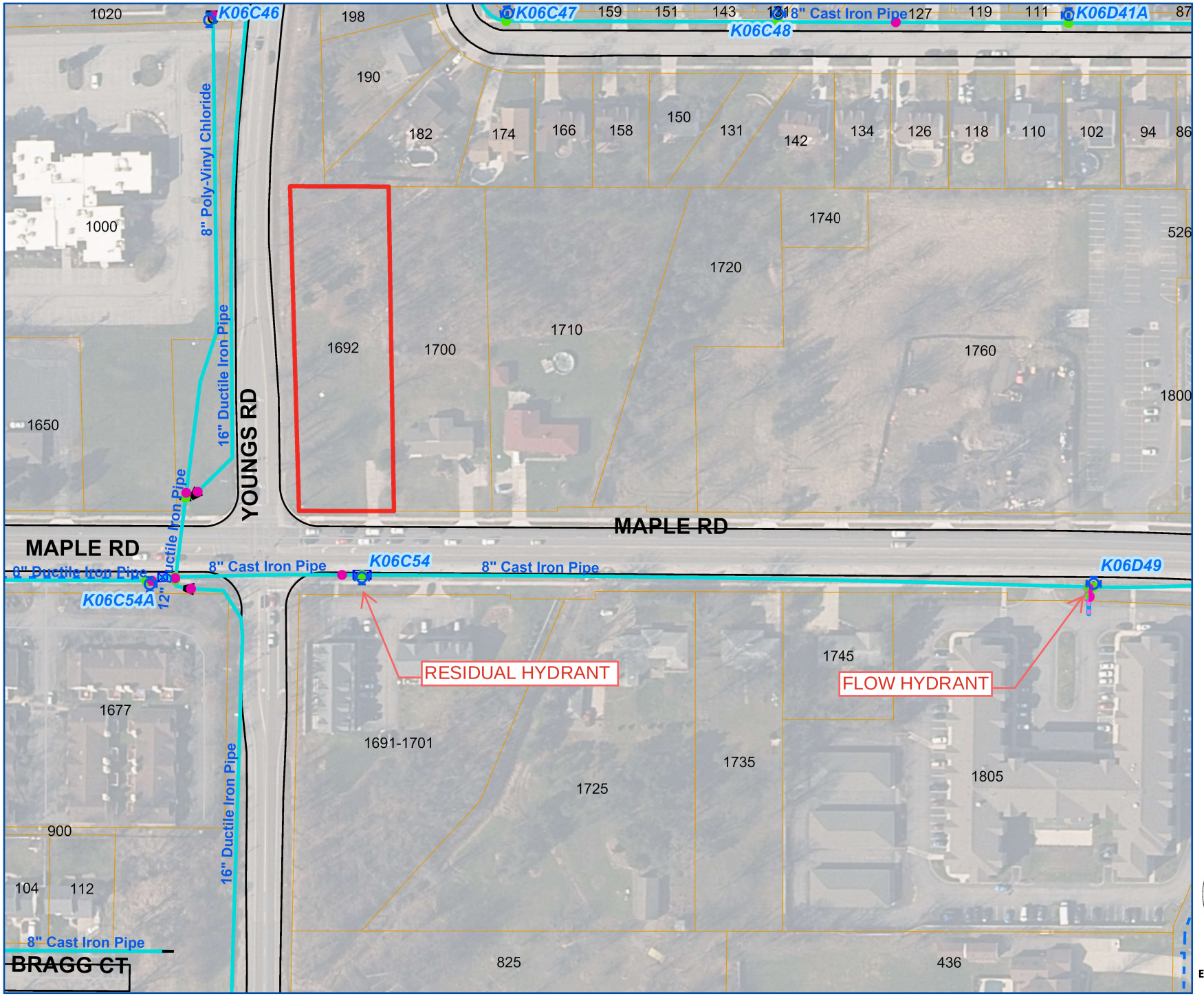
Q_{peak} = 7.33 gpm
Pipe = 2 inch Type 'K' Copper C = 140
Length = 135 LF (approx. distance from tap to RPZ)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(135)(3.16)^{1.85}}{(140)^{1.85}\ (2)^{4.866}} = 0.21 \text{ ft} = 0.09 \text{ psi}$$

Δ elev = 0 ft = 0.00 psi
Loss through meter = 1 psi
Loss through RPZ = 12 psi
Total Losses = 13.1 psi
Static Pressure = 82 psi (per ECWA)
Residual Pressure Following RPZ = 82 - 13.1 = 68.9 psi (available after rpz & meter)

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)



N

FIRE FLOW DATA (FROM 2023)
1692 Maple Rd., AMTN

Erie County Water Authority
Buffalo, New York

Residual Hydrant: K06C54 **Test Date/Time:** 8/02/2023 06:44

Location.....: **1691 MAPLE RD 1ST E/O YOUNGS RD**
TOWN OF AMHERST

Size of Main/Branch: **8"/6"** Fire District: **22031 MAIN TRANSIT FD 14** Water District: **315 AMHERST DISTRICT 15C**

Performed By: **DWP/MES/CDB** Comments: **HYDRANT FLOW TEST REQUESTED BY PATRICK SHEEDY, CARMINA WOOD DESIGN**
EMAIL: PSHEEDY@CARMINAWOODDESIGN.COM
CW #138433

Dischrge Coef: **090** Elvtn Usgs(ft): Static(psi): **82** Residual(psi): **77** Required Residual Pressure(psi): **20**
Gallons Used..: **4,934** Total Flow(gpm): **1,644** Flow at Reqd Resid Pressure: **6,402**

Flow Hydrants:

Flow Hyd	Location	Main/Brnch	Nzle	Size	Pitot	Flow	Comments
K06 D49	**1765 MAPLE RD**	**8"/6"**	1:	**2.50**	**24.0**	**822**	
	2ND E/O SAINT GREGORY CT		2:	**2.50**	**24.0**	**822**	
			3:			Total Flow:	**1,644**

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Appendix B

Storm Sewer System Drainage Calculations

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Existing Runoff

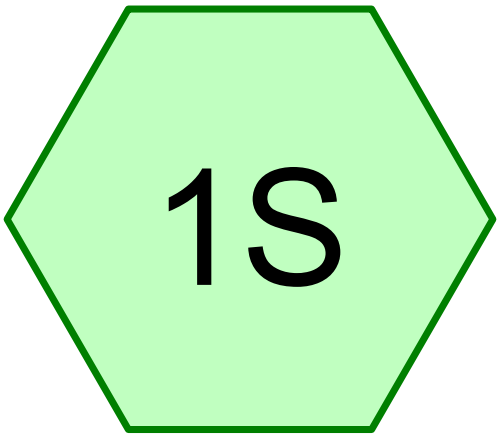
Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

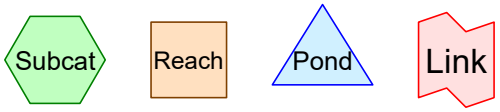
Events for Subcatchment 1S: Existing

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.87	0.77	1,690	0.48
2-Year	2.20	1.12	2,398	0.69
5-Year	2.69	1.69	3,564	1.02
10-Year	3.14	2.25	4,725	1.36
25-Year	3.84	3.16	6,657	1.91
50-Year	4.48	4.02	8,519	2.44
100-Year	**5.23**	**5.05**	**10,784**	**3.09**

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)



Existing



Routing Diagram for 24-4153 existing
Prepared by Carmina Wood Morris, PC, Printed 6/23/2025
HydroCAD® 10.20-2h s/n 05019 © 2024 HydroCAD Software Solutions LLC

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
2	25-Year	Type II 24-hr		Default	24.00	1	3.84	2

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
41,818	80	>75% Grass cover, Good, HSG D (1S)
41,818	**80**	**TOTAL AREA**

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
41,818	HSG D	1S
0	Other	
41,818		**TOTAL AREA**

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	41,818	0	41,818	>75% Grass cover, Good	
0	**0**	**0**	**41,818**	**0**	**41,818**	**TOTAL AREA**	

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Existing Runoff Area=0.960 ac 0.00% Impervious Runoff Depth=1.36"
Flow Length=67' Slope=0.0280 '/' Tc=7.0 min CN=80 Runoff=2.25 cfs 4,725 cf

Total Runoff Area = 41,818 sf Runoff Volume = 4,725 cf Average Runoff Depth = 1.36"
100.00% Pervious = 41,818 sf 0.00% Impervious = 0 sf

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Subcatchment 1S: Existing

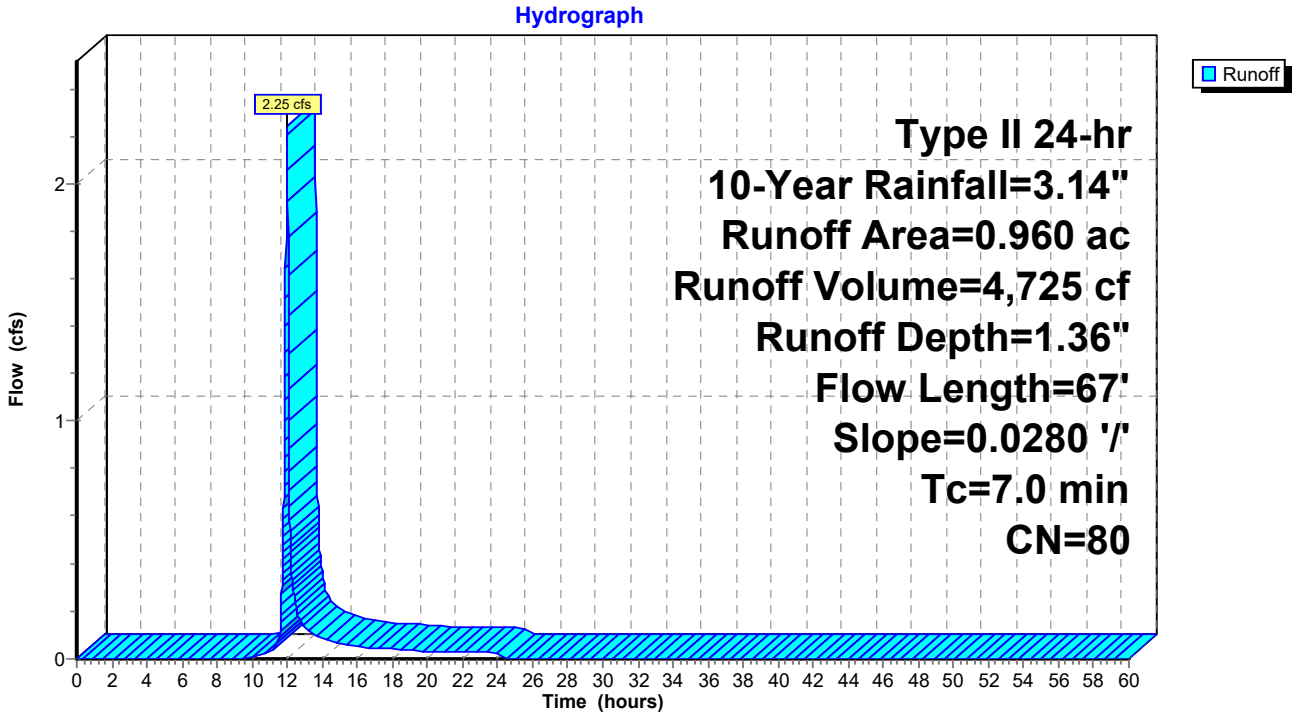
Runoff = 2.25 cfs @ 11.99 hrs, Volume= 4,725 cf, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.960	80	>75% Grass cover, Good, HSG D
0.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	67	0.0280	0.16		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 1S: Existing



Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Existing Runoff Area=0.960 ac 0.00% Impervious Runoff Depth=1.91"
Flow Length=67' Slope=0.0280 '/' Tc=7.0 min CN=80 Runoff=3.16 cfs 6,657 cf

Total Runoff Area = 41,818 sf Runoff Volume = 6,657 cf Average Runoff Depth = 1.91"
100.00% Pervious = 41,818 sf 0.00% Impervious = 0 sf

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Subcatchment 1S: Existing

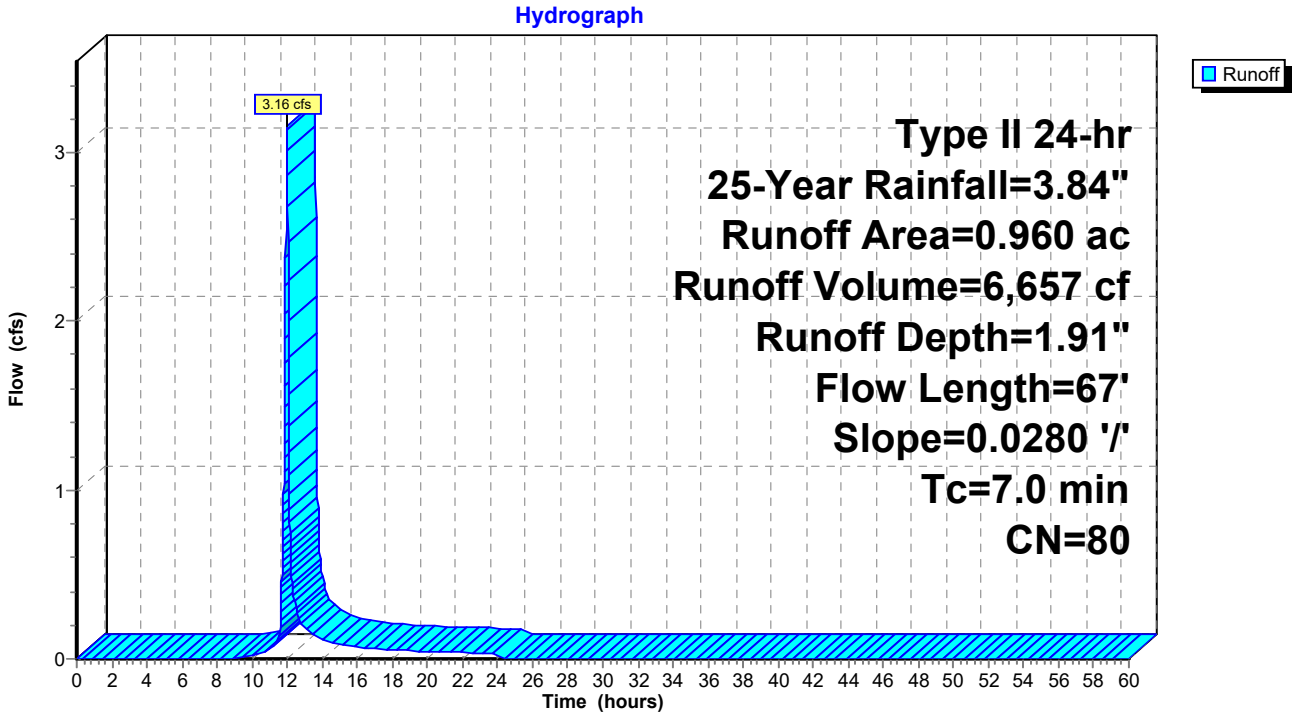
Runoff = 3.16 cfs @ 11.99 hrs, Volume= 6,657 cf, Depth= 1.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.960	80	>75% Grass cover, Good, HSG D
0.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	67	0.0280	0.16		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 1S: Existing



Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Proposed Runoff

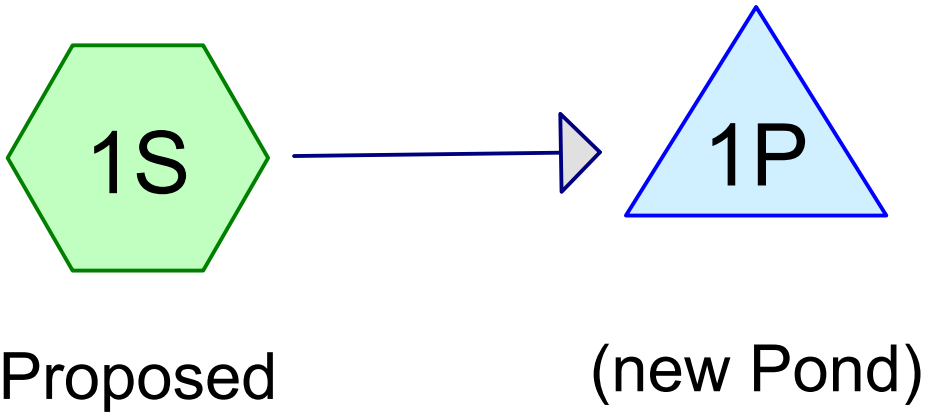
Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Events for Pond 1P: (new Pond)

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	1.77	0.80	602.89	735
2-Year	2.27	0.90	603.07	1,023
5-Year	3.04	1.05	603.33	1,490
10-Year	3.75	1.17	603.56	1,958
25-Year	4.87	1.32	603.89	2,738
50-Year	5.89	6.23	636.34	**3,035**
100-Year	**7.08**	**9.62**	**683.66**	3,035

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)



Subcat Reach Pond Link

Routing Diagram for 24-4153 proposed
Prepared by Carmina Wood Morris, PC, Printed 6/23/2025
HydroCAD® 10.20-2h s/n 05019 © 2024 HydroCAD Software Solutions LLC

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
2	25-Year	Type II 24-hr		Default	24.00	1	3.84	2

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
20,909	80	>75% Grass cover, Good, HSG D (1S)
20,909	98	Paved parking, HSG D (1S)
41,818	**89**	**TOTAL AREA**

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
41,818	HSG D	1S
0	Other	
41,818		**TOTAL AREA**

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	20,909	0	20,909	>75% Grass cover, Good	
0	0	0	20,909	0	20,909	Paved parking	
0	**0**	**0**	**41,818**	**0**	**41,818**	**TOTAL AREA**	

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	1P	602.00	601.70	100.0	0.0030	0.013	0.0	8.0	0.0

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Proposed Runoff Area=0.960 ac 50.00% Impervious Runoff Depth=2.03"
Flow Length=72' Tc=3.0 min CN=89 Runoff=3.75 cfs 7,063 cf

Pond 1P: (new Pond) Peak Elev=603.56' Storage=1,958 cf Inflow=3.75 cfs 7,063 cf
8.0" Round Culvert n=0.013 L=100.0' S=0.0030 '/' Outflow=1.17 cfs 7,063 cf

Total Runoff Area = 41,818 sf Runoff Volume = 7,063 cf Average Runoff Depth = 2.03"
50.00% Pervious = 20,909 sf 50.00% Impervious = 20,909 sf

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Subcatchment 1S: Proposed

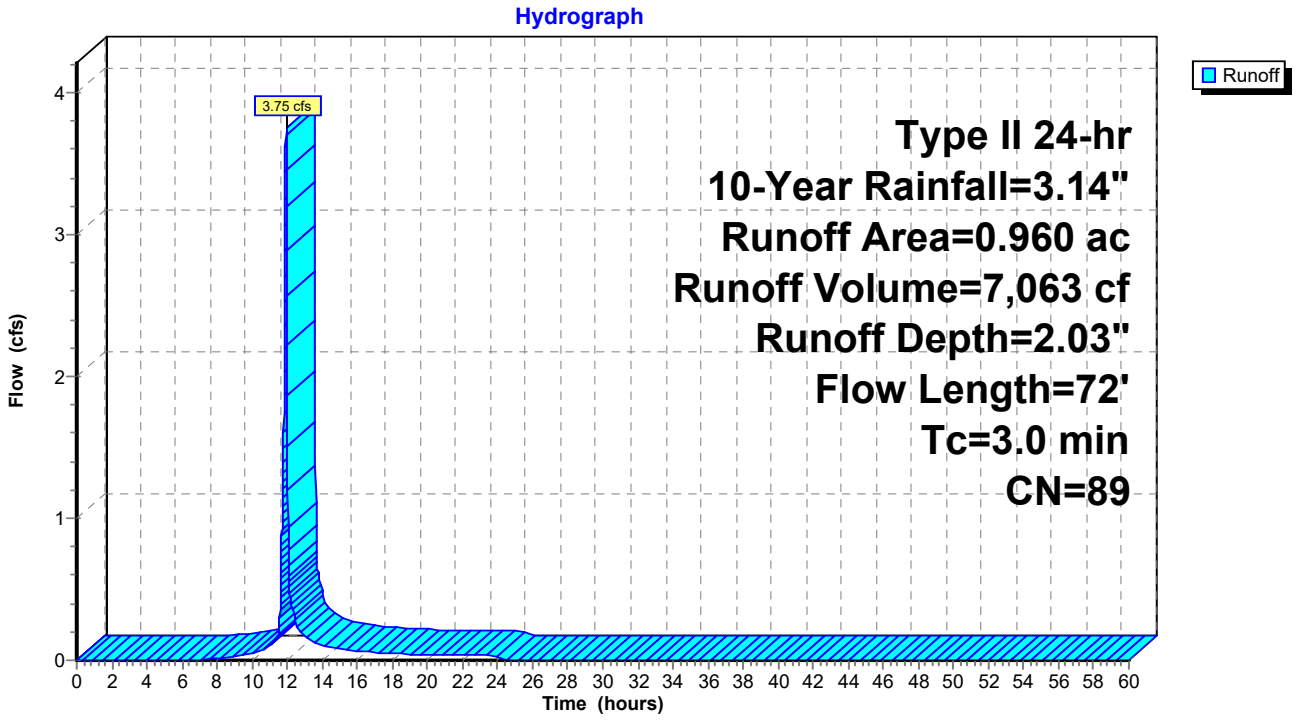
Runoff = 3.75 cfs @ 11.94 hrs, Volume= 7,063 cf, Depth= 2.03"
Routed to Pond 1P : (new Pond)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.480	98	Paved parking, HSG D
0.480	80	>75% Grass cover, Good, HSG D
0.960	89	Weighted Average
0.480		50.00% Pervious Area
0.480		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	67	0.0120	0.91		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
1.8	5	0.0050	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
3.0	72	Total			

Subcatchment 1S: Proposed



Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Pond 1P: (new Pond)

Inflow Area = 41,818 sf, 50.00% Impervious, Inflow Depth = 2.03" for 10-Year event
Inflow = 3.75 cfs @ 11.94 hrs, Volume= 7,063 cf
Outflow = 1.17 cfs @ 12.03 hrs, Volume= 7,063 cf, Atten= 69%, Lag= 5.7 min
Primary = 1.17 cfs @ 12.03 hrs, Volume= 7,063 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 603.56' @ 12.03 hrs Surf.Area= 2,199 sf Storage= 1,958 cf

Plug-Flow detention time= 19.1 min calculated for 7,062 cf (100% of inflow)
Center-of-Mass det. time= 19.2 min (825.1 - 806.0)

Volume	Invert	Avail.Storage	Storage Description
#1	602.00'	3,035 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

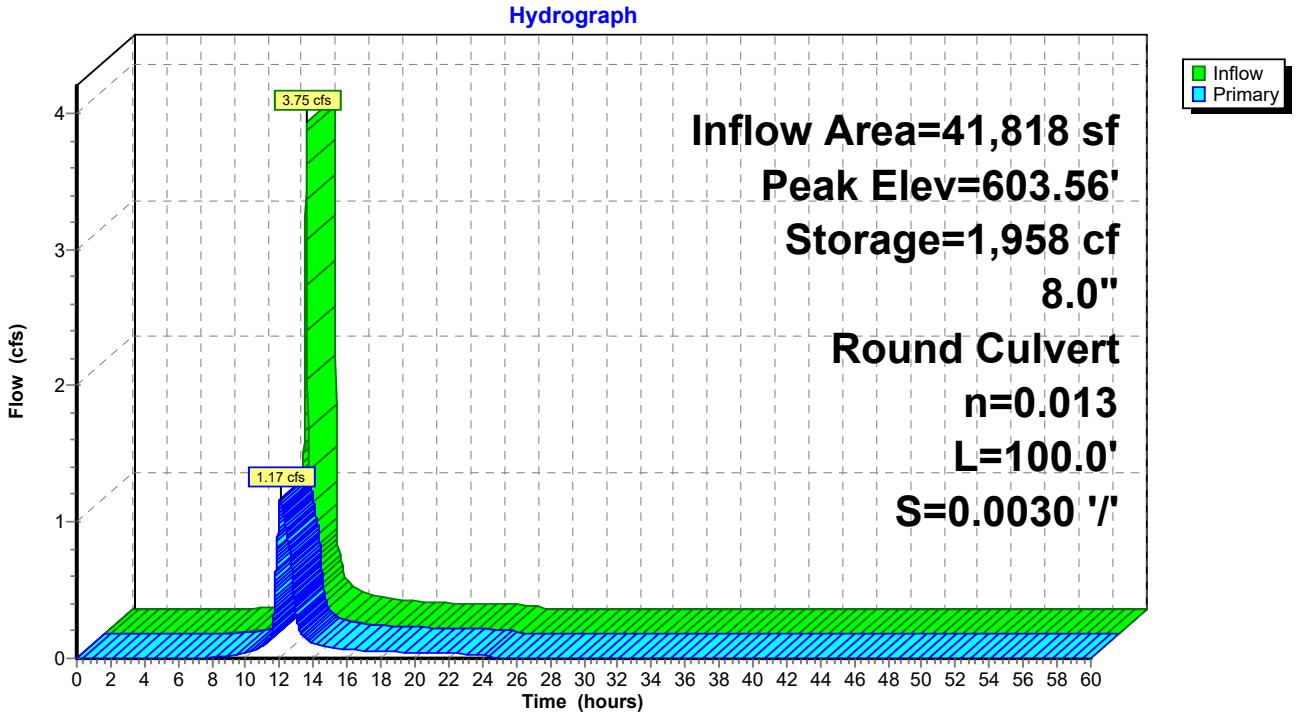
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
602.00	250	0	0
603.00	1,560	905	905
604.00	2,700	2,130	3,035

Device	Routing	Invert	Outlet Devices
#1	Primary	602.00'	**8.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 602.00' / 601.70' S= 0.0030 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.17 cfs @ 12.03 hrs HW=603.56' (Free Discharge)
1=Culvert (Barrel Controls 1.17 cfs @ 3.34 fps)

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Pond 1P: (new Pond)



Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Proposed Runoff Area=0.960 ac 50.00% Impervious Runoff Depth=2.67"
Flow Length=72' Tc=3.0 min CN=89 Runoff=4.87 cfs 9,316 cf

Pond 1P: (new Pond) Peak Elev=603.89' Storage=2,738 cf Inflow=4.87 cfs 9,316 cf
8.0" Round Culvert n=0.013 L=100.0' S=0.0030 '/' Outflow=1.32 cfs 9,316 cf

Total Runoff Area = 41,818 sf Runoff Volume = 9,316 cf Average Runoff Depth = 2.67"
50.00% Pervious = 20,909 sf 50.00% Impervious = 20,909 sf

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Subcatchment 1S: Proposed

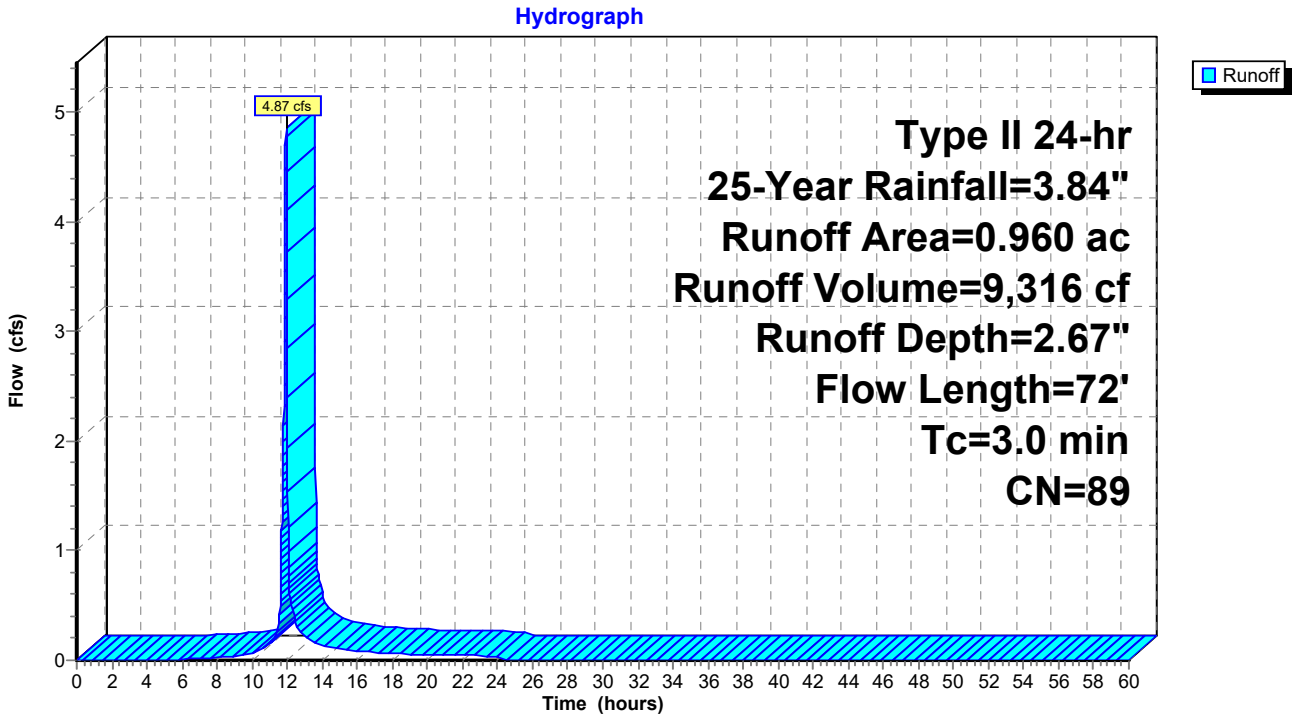
Runoff = 4.87 cfs @ 11.94 hrs, Volume= 9,316 cf, Depth= 2.67"
Routed to Pond 1P : (new Pond)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.480	98	Paved parking, HSG D
0.480	80	>75% Grass cover, Good, HSG D
0.960	89	Weighted Average
0.480		50.00% Pervious Area
0.480		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	67	0.0120	0.91		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
1.8	5	0.0050	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
3.0	72	Total			

Subcatchment 1S: Proposed



Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Summary for Pond 1P: (new Pond)

Inflow Area = 41,818 sf, 50.00% Impervious, Inflow Depth = 2.67" for 25-Year event
Inflow = 4.87 cfs @ 11.94 hrs, Volume= 9,316 cf
Outflow = 1.32 cfs @ 12.04 hrs, Volume= 9,316 cf, Atten= 73%, Lag= 6.1 min
Primary = 1.32 cfs @ 12.04 hrs, Volume= 9,316 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 603.89' @ 12.04 hrs Surf.Area= 2,572 sf Storage= 2,738 cf

Plug-Flow detention time= 21.1 min calculated for 9,316 cf (100% of inflow)
Center-of-Mass det. time= 20.9 min (819.1 - 798.1)

Volume	Invert	Avail.Storage	Storage Description
#1	602.00'	3,035 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

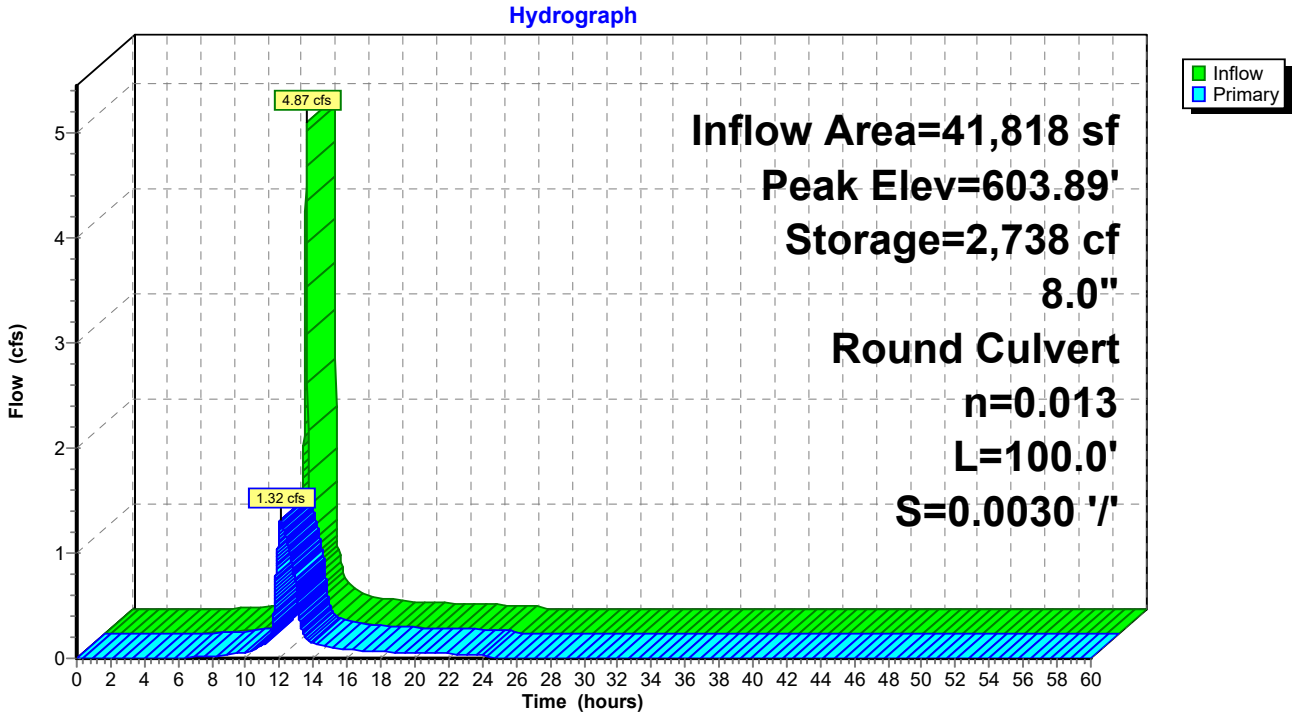
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
602.00	250	0	0
603.00	1,560	905	905
604.00	2,700	2,130	3,035

Device	Routing	Invert	Outlet Devices
#1	Primary	602.00'	**8.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 602.00' / 601.70' S= 0.0030 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.32 cfs @ 12.04 hrs HW=603.89' (Free Discharge)
1=Culvert (Barrel Controls 1.32 cfs @ 3.77 fps)

Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

Pond 1P: (new Pond)



Attachment: Engineer's Report uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

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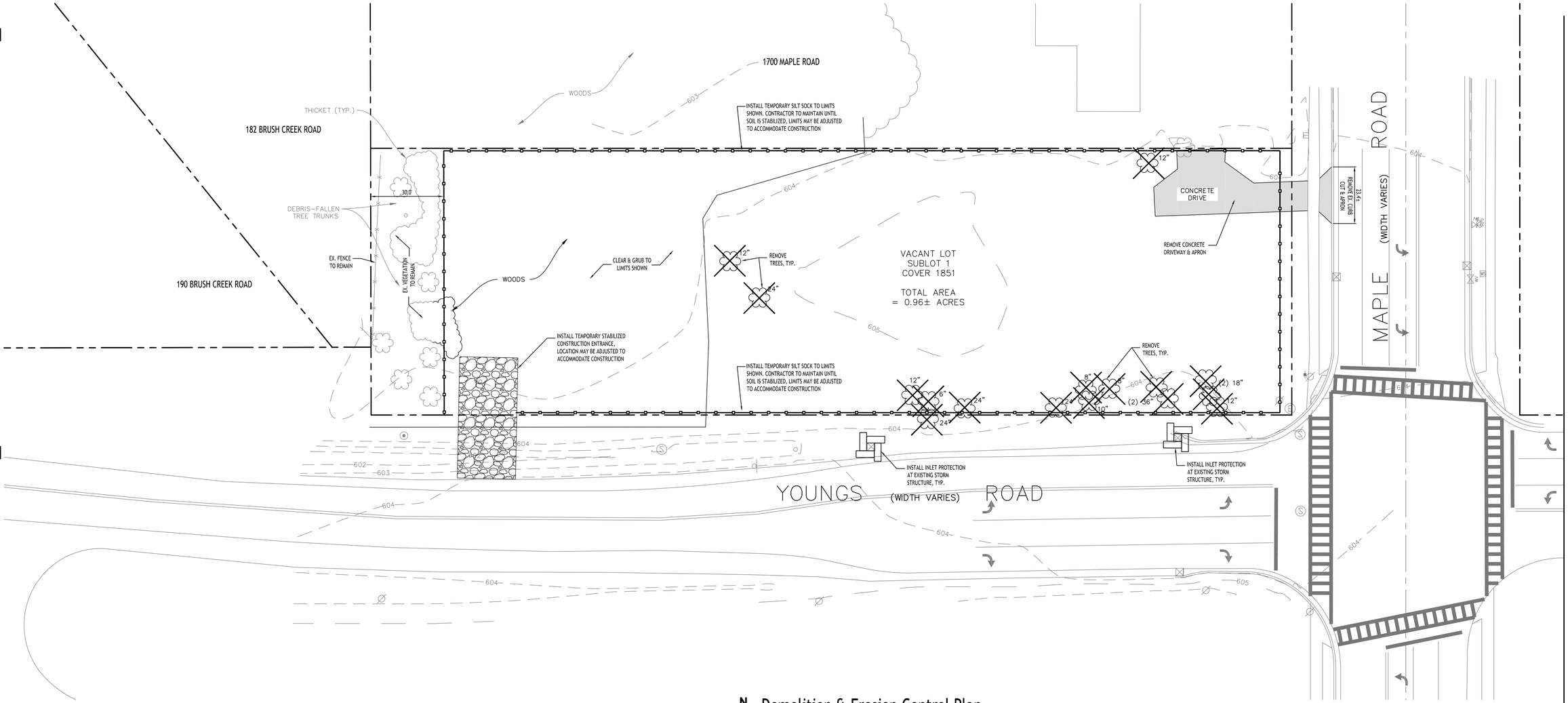

Demolition & Erosion Control Plan

SCALE: 1"=20'

DEMOLITION NOTES:

1. ALL PERIMETER SILT SOCK TO BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITY BEGINNING.
2. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES AND CATCH BASINS.
3. TEMPORARY SILT SOCK TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
4. AS NECESSARY, COVERED DUMPSTERS SHALL BE PROVIDED ONSITE AS REQUIRED FOR CONSTRUCTION WASTE.
5. REMOVE ALL TREES AND STUMPS AS SHOWN AND DISPOSE OF OFF SITE. CONTRACTOR TO PROTECT ALL TREES/BRUSH NOT DISTURBED BY CONSTRUCTION ACTIVITY. LOCATIONS OF TREES SHOWN ON PLAN ARE APPROXIMATE, CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.

EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY SILT SOCK BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT SOCK BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE OF TOPSOIL MUST BE FOLLOWED. TOPSOIL MAY NOT BE REMOVED WITHOUT A PERMIT.
3. ALL SILT SOCK BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND SPREAD WATER AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN/CITY.
9. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
10. INSTALL TEMPORARY SILT SOCK AROUND THE BASE OF STOCKPILES. STOCKPILES NOT BEING ACTIVELY USED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED.

DEMOLITION & EROSION CONTROL LEGEND

- EXISTING PAVEMENT TO BE SAWCUT & REMOVED
- PROPOSED SILT SOCK
- EXISTING TREE TO BE REMOVED
- PROPOSED STORM INLET PROTECTION

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20 0 20 40Ft.
20'

2.d

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	8/15/25

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Demolition & Erosion Control Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-001

Project No: 24-4153

Attachment: Site Plan Set uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

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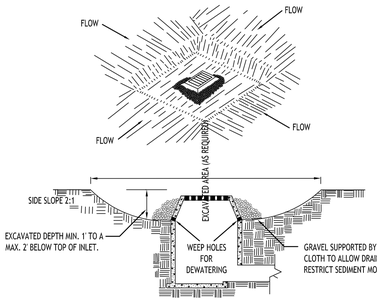


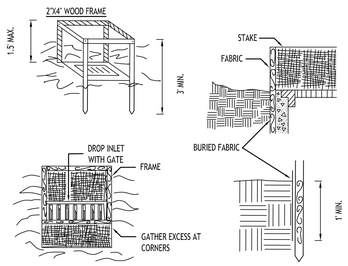
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

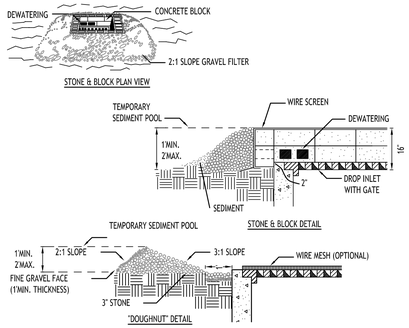
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUN DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION



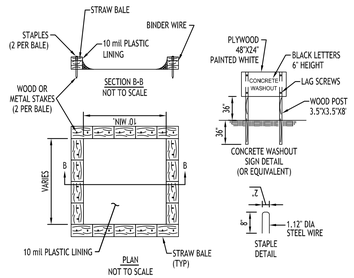
CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

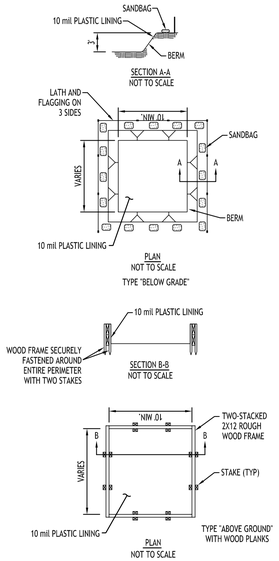
INLET PROTECTION DETAIL 3

NOT TO SCALE



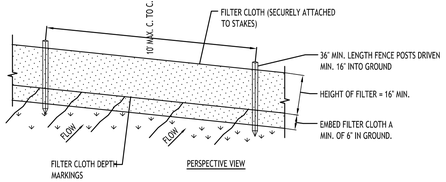
NOTES

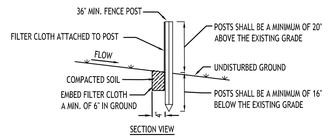
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.



CONCRETE WASHOUT DETAIL

NOT TO SCALE



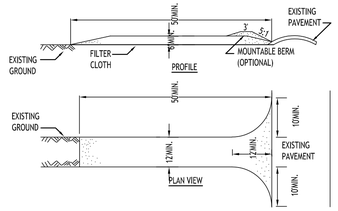


CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

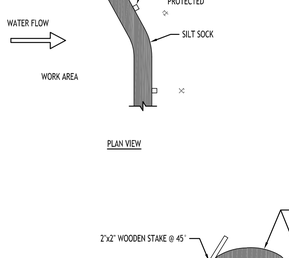


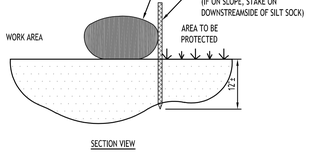
CONSTRUCTION SPECIFICATIONS

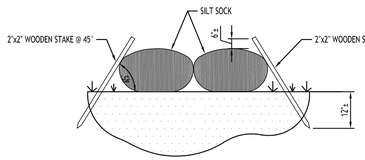
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE







NOTES:

CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

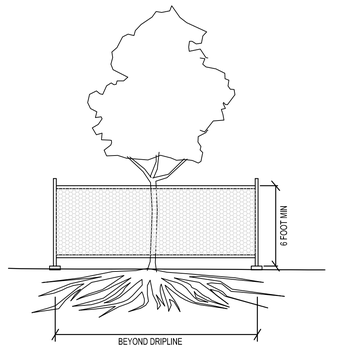
SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

SILT SOCK DETAIL

NOT TO SCALE



PLAN VIEW OF ROOTS



EXISTING TREE PROTECTION FENCE

MATERIALS

MATERIALS FOR TEMPORARY PLASTIC BARRIER FENCES SHALL MEET THE FOLLOWING REQUIREMENTS:

- FENCE: HIGH-DENSITY POLYETHYLENE MESH, ULTRAVIOLET-STABILIZED MIN. 2 YEARS; MINIMUM HEIGHT 4.0 FEET. COLOR: HIGH-VISIBILITY ORANGE OR GREEN. WHEN USED TO PROTECT TREES OR OTHER VEGETATION, COLOR SHALL BE HIGH-VISIBILITY ORANGE.
- POSTS: RIGID METAL OR WOOD POSTS, MINIMUM LENGTH 6.0 FEET.
- TIES: STEEL WIRE, #14 GAUGE OR NYLON CABLE TIES.
- WARNING SIGNS: SHEET METAL, PLASTIC OR OTHER RIGID, WATERPROOF MATERIAL, 1.5 FEET BY 2.0 FEET WITH 4 INCH BLACK LETTERS ON A WHITE BACKGROUND. TEXT SHALL BE: "PROTECTED SITE - KEEP OUT" UNLESS OTHERWISE SPECIFIED.

DETAILS

FENCES SHALL BE ERECTED PRIOR TO MOVING CONSTRUCTION EQUIPMENT ONTO ANY AREA DESIGNATED FOR PROTECTION.

THE LINE OF FENCES SHALL BE STAKED OR MARKED OUT ON THE GROUND BY THE CONTRACTOR AND APPROVED BY THE ENGINEER/OWNER BEFORE ANY FENCE IS INSTALLED. WHERE USED FOR PROTECTION OF INDIVIDUAL TREES, FENCE SHALL BE PLACED AT THE DRIP LINE (EXTENT OF CANOPY). IF NOT POSSIBLE, PLACEMENT SHALL BE AS CLOSE TO THE DRIP LINE AS POSSIBLE AND IN NO CASE LESS THAN 5.0 FEET AWAY FROM THE TREE TRUNK.

ON APPROVAL OF THE STAKEOUT, POSTS SHALL BE SECURELY DRIVEN ON 6.0 FOOT-MAXIMUM CENTERS, NORMAL TO THE GROUND, TO A DEPTH 1/3 OF THE TOTAL POST LENGTH. PLASTIC BARRIER FENCE SHALL BE PLACED ALONG THE SIDE OF ALL POSTS. ENDS OF FENCING SEGMENTS SHALL OVERLAP A DISTANCE OF AT LEAST ONE HALF THE FENCE HEIGHT.

FENCING SHALL BE SECURED TO POSTS WITH WIRE OR CABLE TIES AT TOP, MIDDLE AND BOTTOM OF POST. FASTENER SHALL BE TIGHT ENOUGH TO PREVENT THE FENCING FROM SLIPPING DOWN. OVERLAPS SHALL ALSO BE SECURELY FASTENED.

BARRIER FENCE WHICH IS NOT ORANGE IN COLOR SHALL BE FLAGGED AT 6.0 FOOT INTERVALS WITH RED OR ORANGE FLORESCENT TAPE. WARNING SIGNS SHALL BE MOUNTED ON THE FENCE AT NO MORE THAN 100 FOOT INTERVALS.

MAINTENANCE SHALL COMMENCE IMMEDIATELY AFTER ERECTION OF THE FENCE AND CONTINUE UNTIL ONE WEEK PRIOR TO ACCEPTANCE OF THE CONTRACT, AND SHALL CONSIST OF: REPLACING DAMAGED POST(S) AND FENCING; RE-FASTENING AND TIGHTENING FENCING; AND RESTORING FENCE TO ITS INTENDED HEIGHT.

FENCING USED FOR TREE OR OTHER VEGETATION PROTECTION SHALL NOT BE TEMPORARILY REMOVED TO ALLOW EQUIPMENT ACCESS OVER A PROTECTED AREA, EXCEPT AS REQUIRED FOR ITEMS OF WORK SPECIFICALLY SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER IN WRITING.

TREE PROTECTION DETAIL

NOT TO SCALE

2.d

CARMINAWOOD DESIGN

Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date

Attachment: Site Plan Set uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

STATE OF NEW YORK
R. CHRISTOPHER WOOD
073194
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Demolition & Erosion Control Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-002

Project No: 24-4153

Packet Pg. 914

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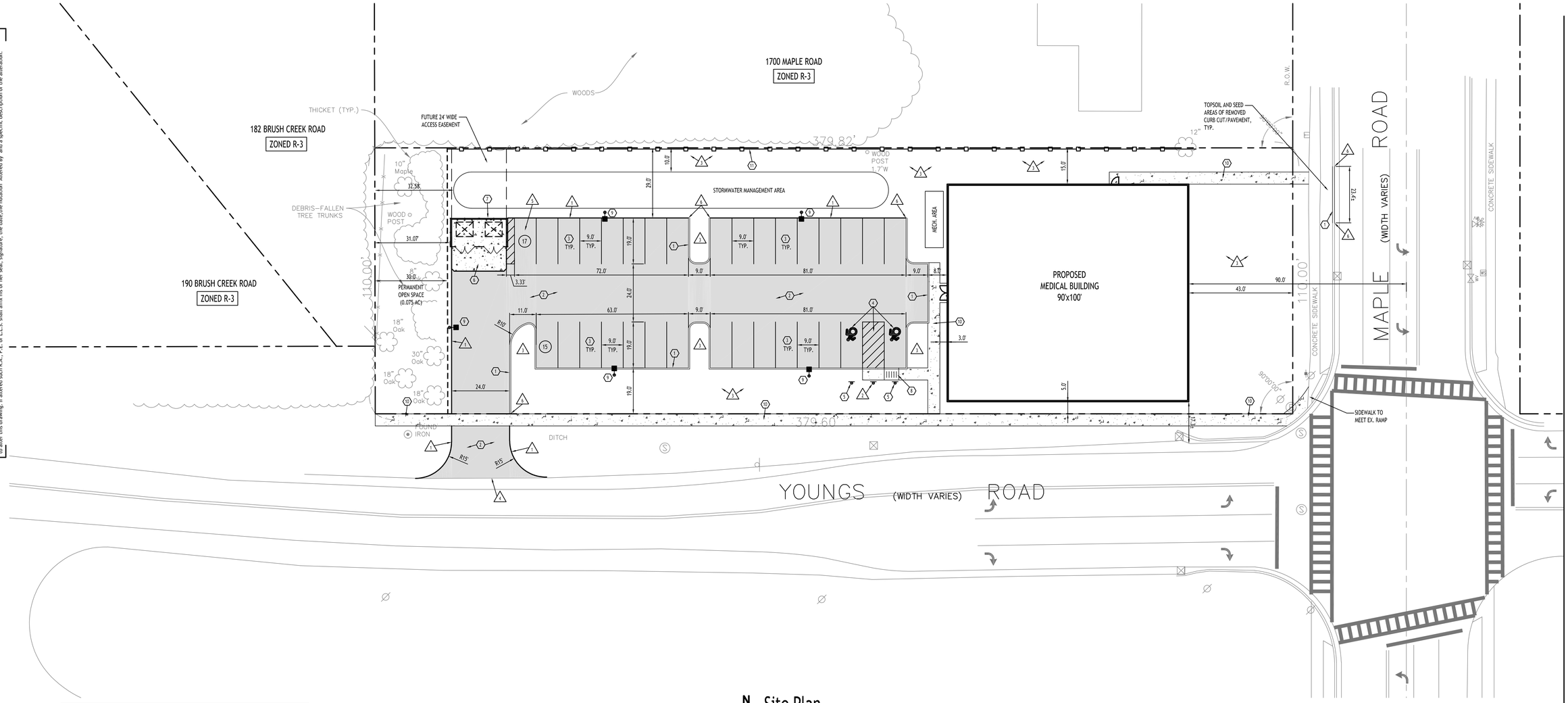

Site Plan

SCALE: 1"=20'

Site Data		
TOTAL SITE AREA = 0.96± ACRES		
ZONED: R-3 (REZONED TO OB: OFFICE BUILDING DISTRICT)		
USE: PROPOSED SURGICAL CENTER		
	REQUIRED	PROVIDED
SETBACKS - BUILDING		
FRONT:	20 FT	5.0 FT *
FRONT (FROM OF ℄ MAPLE RD):	90 FT	90 FT
SIDE (ADJ. RES. / NON-RES.):	30 FT	15.0 FT *
REAR (ADJ. RES./ NON-RES.):	30 FT	N/A
SETBACKS - PARKING		
FRONT:	15 FT	19.0 FT MIN.
SIDE/REAR ADJOINING RES.:	25 FT	27.0 FT MIN.
SIDE/REAR ADJOINING NON-RES.:	10 FT	N/A
MAX BUILDING HEIGHT (FLAT ROOF):	30 FT	25 FT
LOT COVERAGE (FOR ALL BLDGS):	N/A	21.5%
PARKING: 9' x 19'	32	32
GREENSPACE:		
INTERIOR PARKING (5%)	0.01 AC	0.025 AC (10.9%)
OVERALL	N/A	50%

*VARIANCE REQUIRED

PARKING CALCULATION:
SURGICAL CENTER/TREATMENT FACILITY
3.5 SPACES PER 1,000 SF OF NET FLOOR AREA

9,000 SF / 1,000 SF * 3.5 = 32 SPACES REQUIRED

DETAIL LEGEND — SEE SITE DETAIL SHEET

1. TYPE 'A' CONCRETE CURB
2. STANDARD DUTY ASPHALT
3. 90° PARKING STALL
4. HANDICAP PAVEMENT MARKINGS
5. HANDICAPPED PARKING SIGN
6. EXTERIOR CONCRETE SLAB ON GRADE
7. DUMPSTER ENCLOSURE
8. SIDEWALK CURB RAMP
9. LIGHT POLE FOUNDATION
10. CONCRETE SIDEWALK, 5' WIDE UNLESS OTHERWISE NOTED
11. 6' HT. WOODEN FENCE

NOTE LEGEND

A. EDGE OF PAVEMENT
B. INSTALL 'NO PARKING' SIGN, M.U.T.C.D. SIGN NO. R7-1C
C. LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
D. MATCH EX. PAVEMENT, SAWCUT AS REQ'D TO ACHIEVE SQUARE EDGE TO MATCH
E. 4" WIDE WHITE PAINT STRIPE @ 45° & 2' O.C., INFILL AREA AS SHOWN
F. RUNOUT CURB 2'

SITE NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS: SHALL HAVE 4" MIN. OF TOPSOIL AND SEED.
3. ALL DIMENSIONS FROM PROPERTY LINES SHALL BE MEASURED PERPENDICULAR TO THE PROPERTY LINE.
4. CENTER ENTRANCE SIDEWALKS ON DOOR OPENINGS.
5. BUILDING DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
6. ALL HANDICAP RAMPS (NOT WITHIN THE NYSDOT R.O.W.) AND/OR SIDEWALKS FLUSH TO PAVEMENT SHALL HAVE ADA COMPLIANT TACTILE WARNING STRIPS WHERE ENTERING PARKING AREAS/DRIVEWAYS. SIDEWALKS FLUSH TO PAVEMENT WITHIN THE NYSDOT R.O.W. SHALL ADHERE TO THE NOTES AND DESIGN REGULATIONS AS STATED ON NYSDOT STANDARD SHEET 608-01.
7. EXISTING TREE LOCATIONS ARE APPROXIMATE, CONTRACTOR TO LOCATE LOCATIONS PRIOR TO CONSTRUCTION AND COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.

GENERAL NOTES:

1. NO GROUND MOUNTED MECHANICAL EQUIPMENT SHALL BE INSTALLED ALONG THE EASTERN SIDE OF THE BUILDING ADJACENT TO 1700 MAPLE ROAD.
2. INSTALL ALL MATERIALS TO MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
3. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNER'S APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
4. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
5. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
7. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
8. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
9. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.

SITE LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED SIDEWALK / CONCRETE PAD
- NUMBER OF PARKING SPACES (27)
- PROPOSED SIGN
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED LIGHT POLE

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20' 20 0 20 40Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	7/30/25
2	Rev. per Town & ECDPW comments	8/15/25

STATE OF NEW YORK — R. CHRISTOPHER WOOD — 076394 — PROFESSIONAL ENGINEER

DRAWING NAME:
Site Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-100

Project No: 24-4153

2.d

Attachment: Site Plan Set uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

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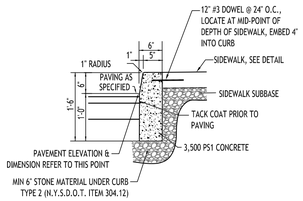
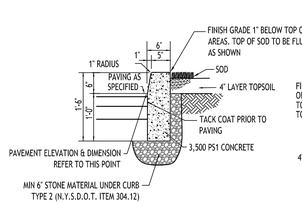


ABUTTING SIDEWALK

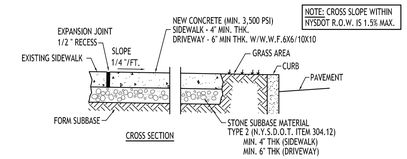


ABUTTING LANDSCAPE/GRASS

NOTES:
1. CONTROL JOINTS TO BE 2" DEEP AT 15'-0" O.C. - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. WHERE THE CURB DROPS (IS FLUSH WITH ASPHALT) THE DEPTH OF CURB BELOW GRADE SHALL BE INCREASED TO 1'-6" AND OTHER DIMENSIONS ADJUSTED ACCORDINGLY.

TYPE "A" CONCRETE CURB - 1

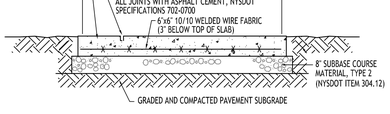
NOT TO SCALE



NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTH WAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3.
3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE, PROVIDE CONTINUOUS STONE PATH TO CURB UNDERDRAIN WHERE PROVIDED.
4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB.
6. INSTALL 6' LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN ENTRANCE, THICKEN SIDEWALK TO 6' AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6' DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE.
7. INSTALL 1/2" PREMOLDED EXPANSION JOINT WITH BACKER ROD & SEALANT WHERE SIDEWALK ABUTS BUILDING OR OTHER STRUCTURE.

CONCRETE SIDEWALK - 10

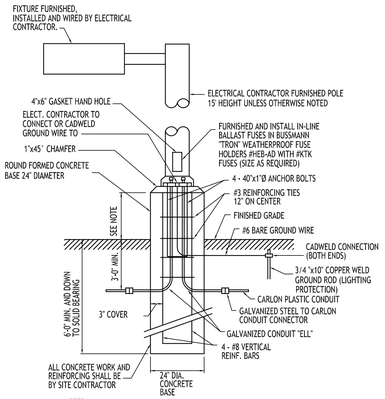
NOT TO SCALE



NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-3.

EXTERIOR CONCRETE SLAB-ON-GRADE SECTION - 6

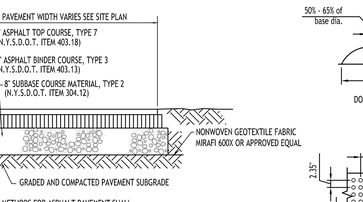
NOT TO SCALE



NOTES:
1. FOR LOCATIONS OF FOUNDATIONS SEE SITE PLAN
2. FOR LIGHT FIXTURE ORDERING INFORMATION SEE SITE LIGHTING PLAN
3. LIGHT POLE BASE EXPOSURE ABOVE GRADE SHALL BE:
   IN CURBED ISLANDS: 6" ABOVE TOP OF CURB ELEVATION
   IN PAVEMENT: 30" ABOVE GRADE
   IN NON-CURBED GRASS AREAS: 6" ABOVE GRADE

LIGHT POLE FOUNDATION - 9

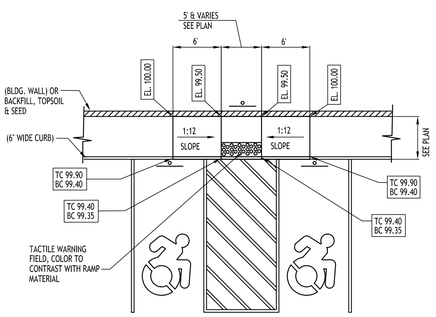
NOT TO SCALE



NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

STANDARD DUTY ASPHALT SECTION - 2

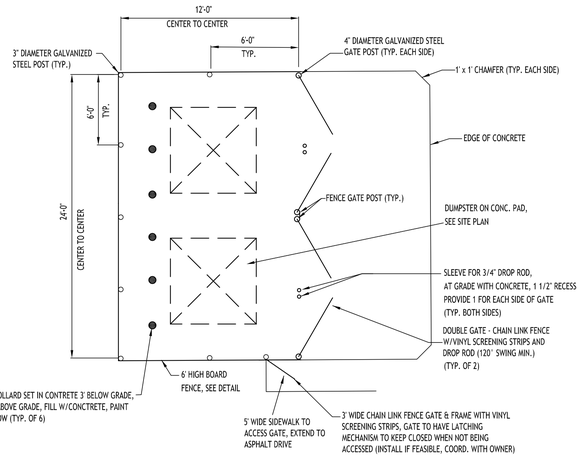
NOT TO SCALE



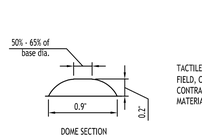
NOTE: ELEVATIONS & DIMENSIONS SHOWN ARE TO ILLUSTRATE GRADE CHANGE ONLY, SEE SITE & GRADING PLAN FOR ACTUAL DATUM & DIMENSIONS

HANDICAPPED PAVEMENT RAMP - 10

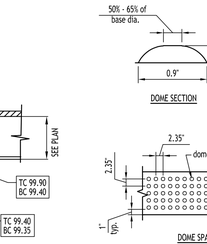
NOT TO SCALE



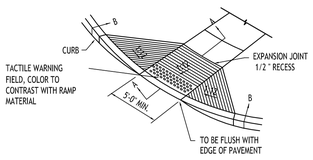
PLAN VIEW



NOTE: TACTILE WARNING DEVICES SHALL BE PER ICC/ANSI A117.1-1998, SECTION 705.3.1.2 OR CURRENT UPDATE

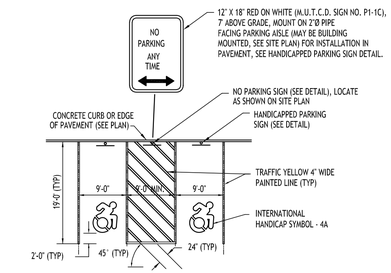


NOTE: TACTILE WARNING DEVICES SHALL BE PER ICC/ANSI A117.1-1998, SECTION 705.3.1.2 OR CURRENT UPDATE



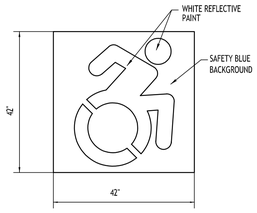
SIDEWALK CURB RAMP - 8

NOT TO SCALE



HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 4

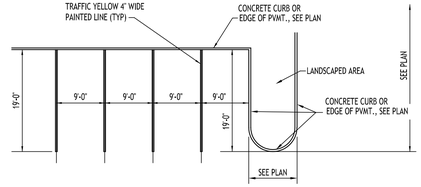
NOT TO SCALE



SYMBOL TO BE CENTERED IN PARKING SPACE

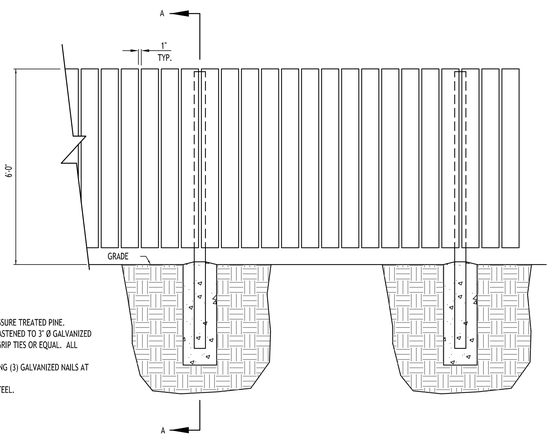
INTERNATIONAL HANDICAP SYMBOL - 4A

NOT TO SCALE



90° PARKING STALL LAYOUT - 3

NOT TO SCALE



NOTES:
1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

GRASS/LAWN AREA

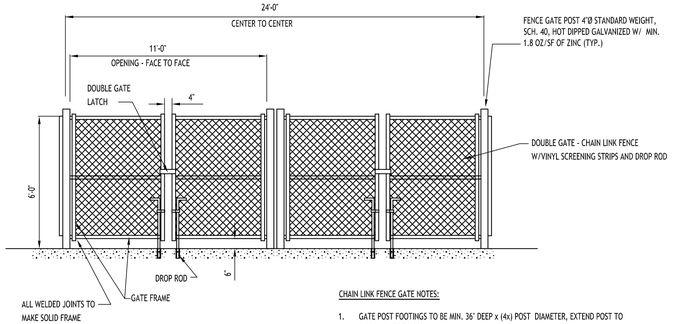
HANDICAPPED PARKING SIGN - 5

NOT TO SCALE

NOTES:
1. ALL WOODEN FENCE MATERIAL TO BE PRESSURE TREATED PINE.
2. CENTER, BOTTOM AND TOP RAILS TO BE FASTENED TO 3" Ø GALVANIZED STEEL FENCE POSTS USING SIMPSON PIPE GRIP TIES OR EQUAL. ALL HARDWARE TO BE GALVANIZED.
3. ATTACH EACH 1" X 6" BOARD TO RAILS USING (3) GALVANIZED NAILS AT EACH RAIL LOCATION.
4. WOOD POSTS CAN BE SUBSTITUTED FOR STEEL.

6' BOARD ON BOARD FENCE - 11

NOT TO SCALE



FRONT VIEW

CHAIN LINK FENCE GATE NOTES:

1. GATE POST FOOTINGS TO BE MIN. 36" DEEP x (4x) POST DIAMETER, EXTEND POST TO WITHIN 6" OF BOTTOM.
2. GATE FRAMES TO BE 2" SQ. GALVANIZED STEEL, WEIGHING 2.60 LB/FT IN ACCORDANCE WITH ASTM F 900.
3. CHAIN LINK FENCE FABRIC SHALL BE 2" MESH, 9 GAUGE, ZINC COATED STEEL CORE WIRE. INSTALL MESH WITH HOOK BOLTS AND TENSION BARS ON ALL 4 SIDES, ATTACH AT 15" MAX.
4. DOUBLE GATE LATCH TO BE FORKED TYPE CAPABLE OF RETAINING GATE IN CLOSED POSITION AND HAVE PROVISION FOR PAD LOCK. LATCH SHALL BE OPERABLE FROM EITHER SIDE OF GATE.
5. ALL HARDWARE TO BE HOT DIPPED GALVANIZED STEEL TO SUIT GATE SIZE.

DUMPSTER ENCLOSURE - 7

NOT TO SCALE

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per ECDPW comments	8/15/25

Attachment: Site Plan Set uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

STATE OF NEW YORK
CHRISTOPHER NOWAK
LICENSED
07039A
PROFESSIONAL ENGINEER

DRAWING NAME:
Site Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-101

Project No: 24-4153

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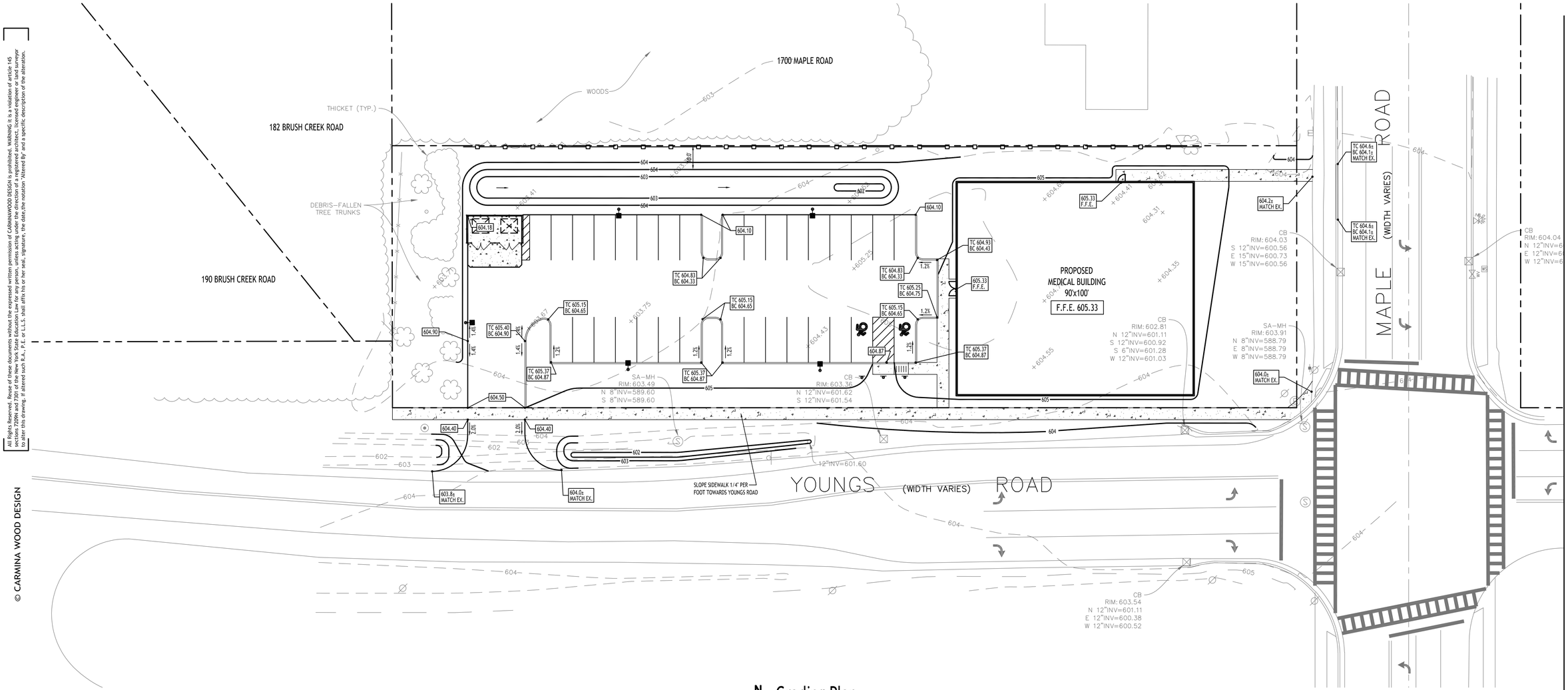

Grading Plan

SCALE: 1"=20'

PROPOSED GRADING LEGEND

PROPOSED CONTOUR	101
PROPOSED SPOT ELEVATION	100.00
PROPOSED TOP/BOTTOM OF CURB	TC 100.50 BC 100.00
PROPOSED CATCH BASIN	CB
PAVEMENT/GROUND SLOPE	
PROPOSED MANHOLE	MH
PROPOSED SWALE	

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20' 20 0 20 40Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	7/30/25

Attachment: Site Plan Set uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

STATE OF NEW YORK
CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Grading Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-200

Project No: 24-4153

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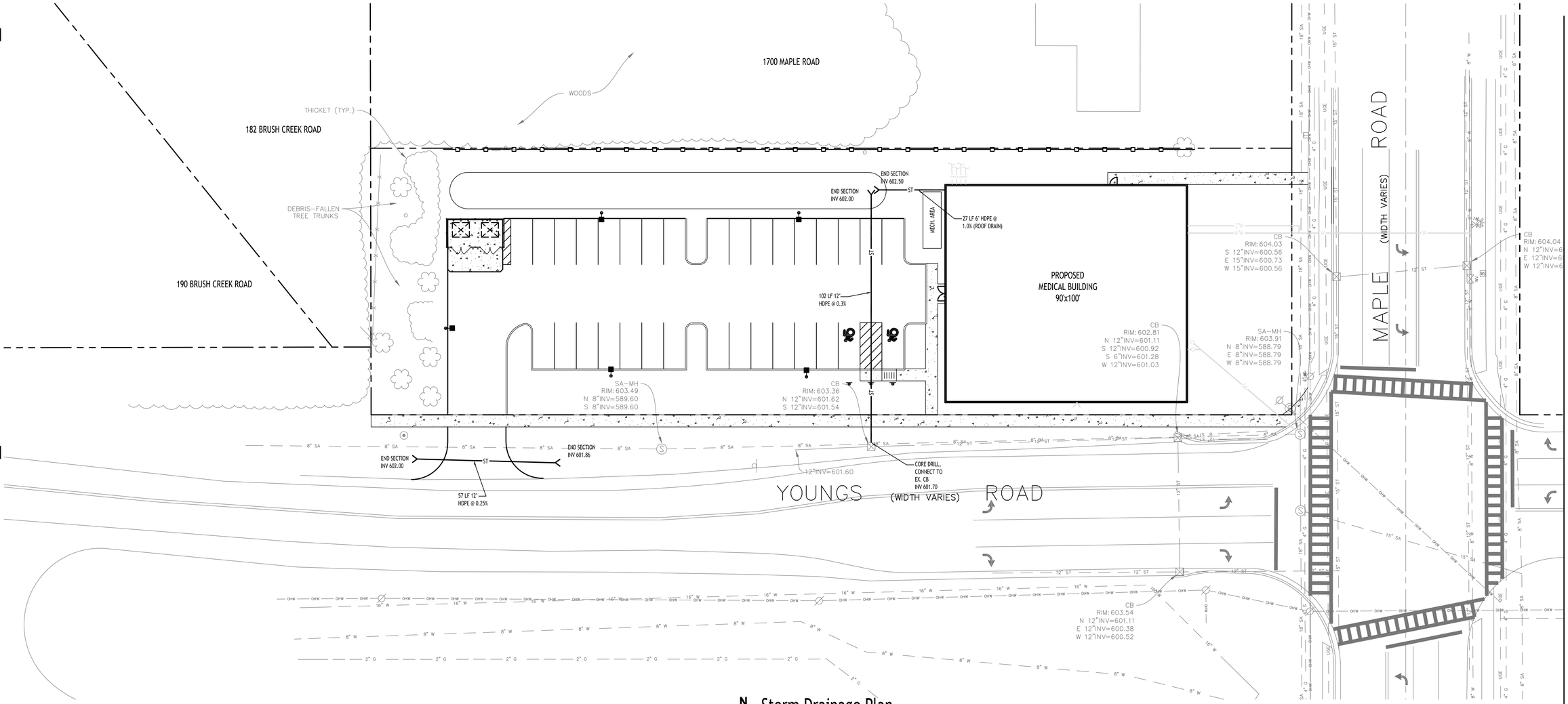

Storm Drainage Plan

SCALE: 1"=20'

PRE DEVELOPMENT STORMWATER EVENT SUMMARIES			
Event	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
10-Year	2.25	4,725	1.36
25-Year	3.16	6,657	1.91

POST DEVELOPMENT STORMWATER EVENT SUMMARIES			
Event	Runoff (cfs)	Volume (cubic-feet)	Elevation (ft)
10-Year	1.17	1,958	603.56
25-Year	1.32	2,738	603.89

PROPOSED STORM DRAINAGE LEGEND

- PROPOSED STORM PIPE — ST —
- PROPOSED PERFORATED STORM PIPE
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED CLEANOUT

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20 0 20 40Ft.
20'

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date

STATE OF NEW YORK — R. CHRISTOPHER WOOD, JR. — 076394 — LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Storm Drainage Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-300

Project No: 24-4153

Attachment: Site Plan Set uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

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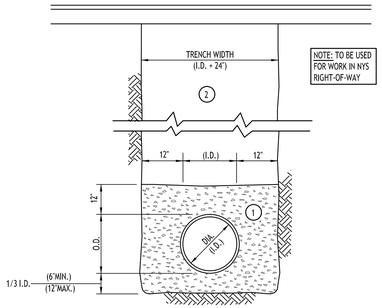


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

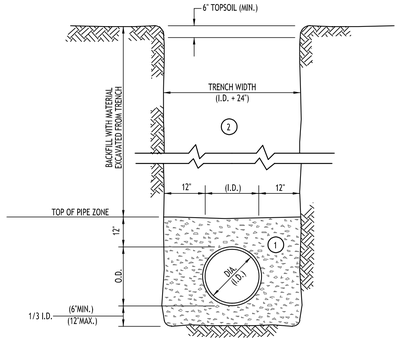
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

STORM SEWER TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

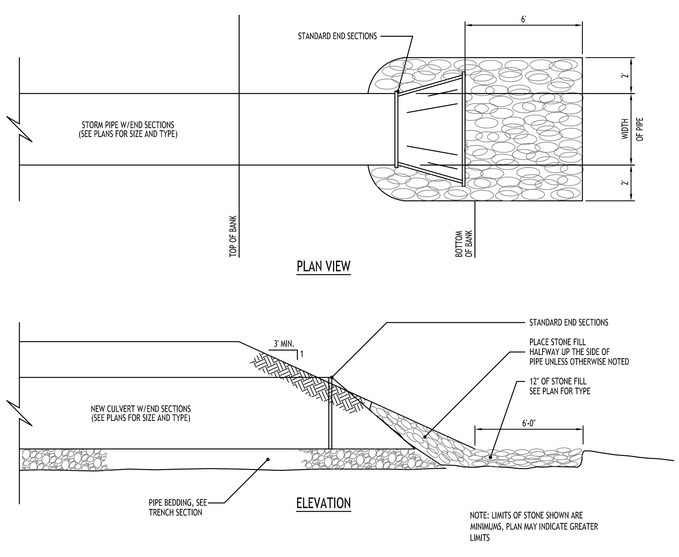
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

STORM SEWER TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP

NOT TO SCALE

CARMINAWOOD DESIGN
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Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

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STATE OF NEW YORK
CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Storm Drainage Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-301

Project No: 24-4153

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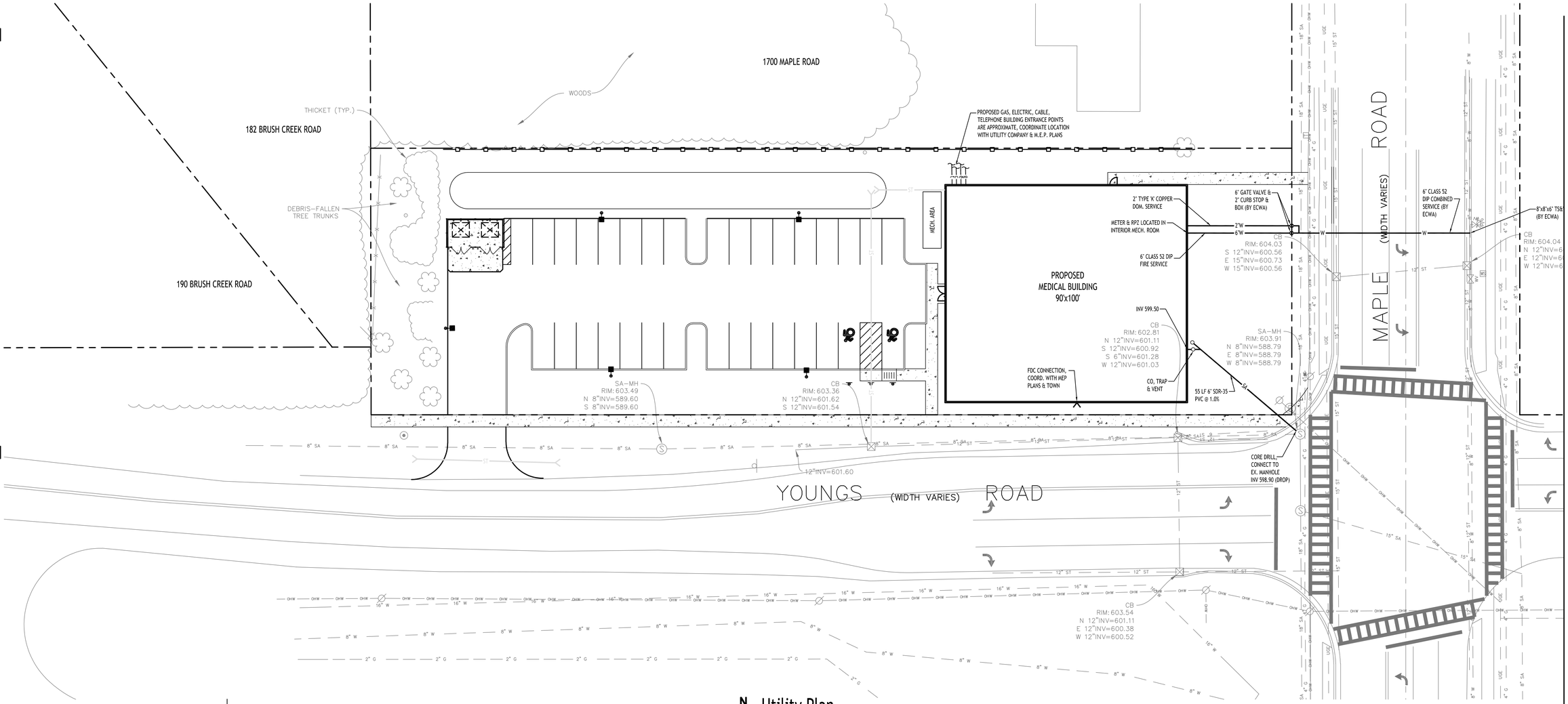
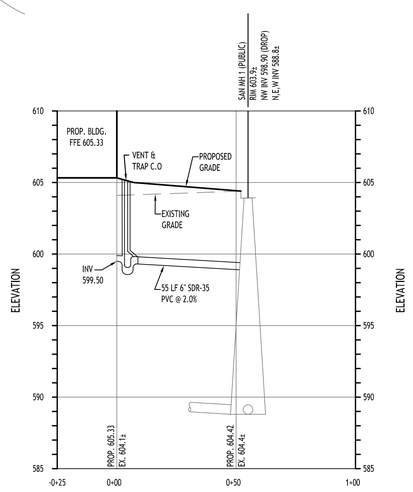


Utility Plan

SCALE: 1"=20'



Building Lateral Profile

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'

NOTES:

1. SELECT FILL TO BE INSTALLED FOR UTILITY PIPES UNDER PAVEMENT & CONCRETE SURFACES EXTEND 5' BEYOND PAVEMENT LIMITS, TYP.
2. A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
3. SATISFACTORILY INSTALL AND COMPACT FILL PRIOR TO SEWER LINE INSTALLATION. SELECT FILL TO BE INSTALLED FOR SANITARY SEWERS UNDER PAVEMENT & CONCRETE SURFACES, EXTEND 5' BEYOND PAVEMENT LIMITS, TYP.

UTILITY NOTES:

1. FOR ALL SANITARY SEWERS, INSTALL SELECT FILL IN PAVED AREAS, EXTEND 5' MIN. BEYOND PAVEMENT LIMITS
2. BUILDINGS TO HAVE INVERT ELEVATION 5' MIN. BELOW F.F.E. OF THE BUILDING. PIPE TO BE 6" SDR-35 PVC @ 1.0% MIN. WITH MIN 4' OF COVER. ADD CLEANOUTS @ 90' MAX. SPACING FOR 6" LATERALS OVER 90' IN LENGTH.
3. COORDINATE GAS & ELEC. METER BANK LOCATIONS ON BUILDINGS WITH M.E.P. PLANS & UTILITY CO.'S.
4. COORDINATE LOCATION OF CTV & TELEPHONE SERVICE TO BUILDINGS WITH M.E.P. PLANS AND UTILITY CO.'S.
5. ANY EXISTING UTILITIES WHICH ARE TO BE ABANDONED AND FALL UNDER PAVEMENT OR BUILDINGS SHALL BE REMOVED VS. BEING ABANDONED UNLESS THOSE UTILITIES ARE FILLED WITH FLOWABLE FILL.
6. A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
7. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH CONCRETE AND ASPHALT PAVEMENT AREAS.

NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE TOWN OF AMHERST SPECIFICATIONS AND DETAILS, AND ERIE COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS.
2. PRIOR STARTING ANY WORK ASSOCIATED WITH OR NEAR EXISTING SANITARY MANHOLES, THE CONTRACTOR SHALL MEET WITH THE TOWN OF AMHERST TO DISCUSS AND AGREE TO THE WORK.
3. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO INSTALLATION OF UTILITIES, AND MUST BE APPROVED BY THE SUPERVISING PROJECT ENGINEER.
4. ALL SANITARY SEWER IS TO CONSTRUCTION IS TO CONFORM TO TOWN OF AMHERST SEWER DISTRICT RULES AND REGULATIONS.
5. ALL OTHER REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER.

PROPOSED UTILITY LEGEND

- PROPOSED WATER LINE — W
- PROPOSED SANITARY SEWER — SA
- PROPOSED UTILITY CONNECTIONS (GAS, ELEC., CABLE, TEL., ETC.)
- PROPOSED GATE VALVE
- PROPOSED CLEANOUT
- INSTALL SELECT BACKFILL

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20 0 20 40Ft.
20'

2.d

CARMINAWOOD DESIGN
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Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev, per Town comments	7/30/25
2	Rev, per Town comments	8/15/25

STATE OF NEW YORK — R. CHRISTOPHER WOOD — 076394 — LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Utility Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-400

Project No: 24-4153

Packet Pg. 920

Attachment: Site Plan Set uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

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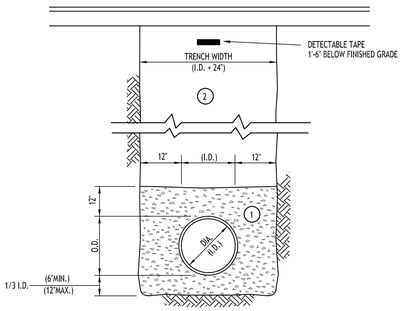


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

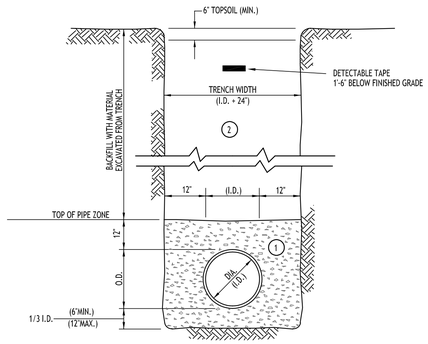
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

SEWER/WATERLINE TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

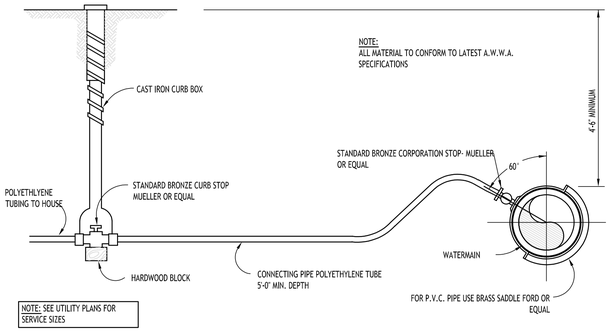
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

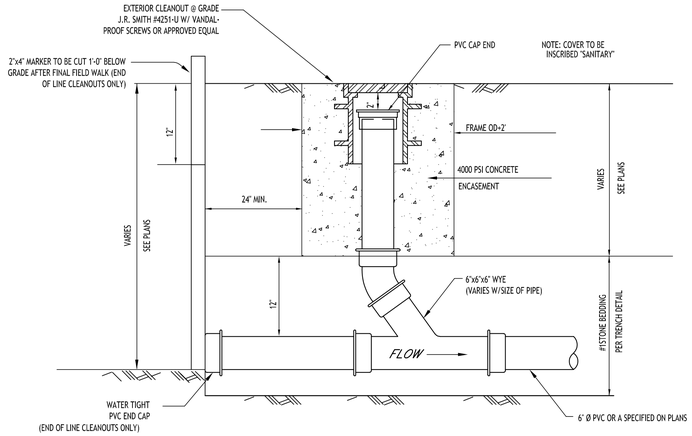
SEWER/WATERLINE TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



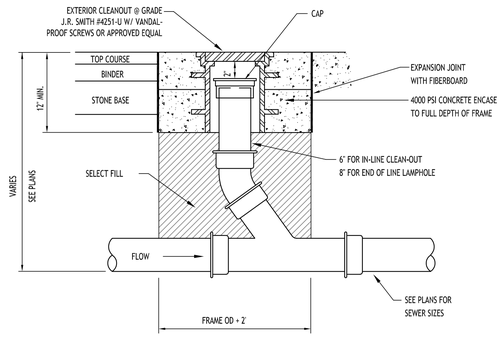
TYPICAL WATER SERVICE LINE INSTALLATION

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE



LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

NOT TO SCALE

CARMINAWOOD DESIGN
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Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date

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STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Utility Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-401

Project No: 24-4153

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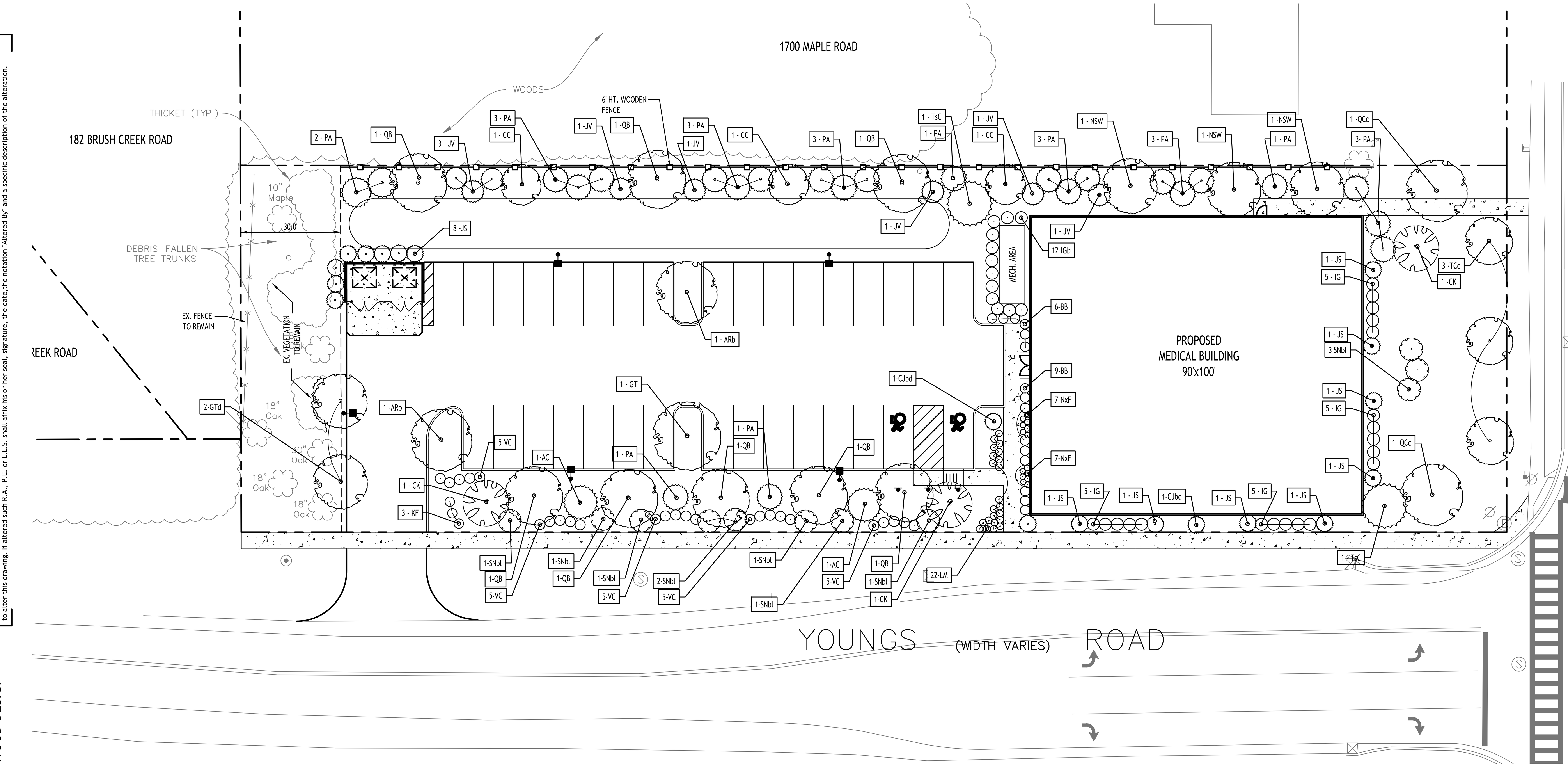


Landscape Plan

SCALE: 1"=20'

PER TOWN OF AMHERST CODE:
ALL REFUSE CONTAINERS & ALL MECHANICAL EQUIPMENT, UTILITY STRUCTURES, MULTIPLE METER BOARDS, GENERATORS, RPZ'S, & SIMILAR APPURTENANCES, INCLUDING THOSE WHICH ARE MOUNTED ON ANY PART OF A PRIMARY STRUCTURE SHALL BE SHOWN ON THE SITE PLAN & APPROPRIATELY SCREENED W/ A FENCE, WALL, &/OR LANDSCAPING AS REQUIRED BY 203-7-2-4(C) & 203-7-2-4(D) OF TOWN CODE. SUCH SCREENING SHALL BE SHOWN ON THE PLANS SUBMITTED FOR REVIEW. PROVIDE GATE ON REFUSE ENCLOSURE THAT SHALL BE CLOSED WHENEVER REFUSE CONTAINER(S) ARE NOT BEING SERVICED & ENCLOSURE SHALL BE HIGH ENOUGH TO SCREEN THE REFUSE CONTAINERS WITHIN.

PER TOWN OF AMHERST CODE:
CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK, AND LIMB DAMAGE; INCLUDING BY NOT LIMITS TO, RETAIN WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS AS PER ZONING ORDINANCE 7-2-3(B)(3).

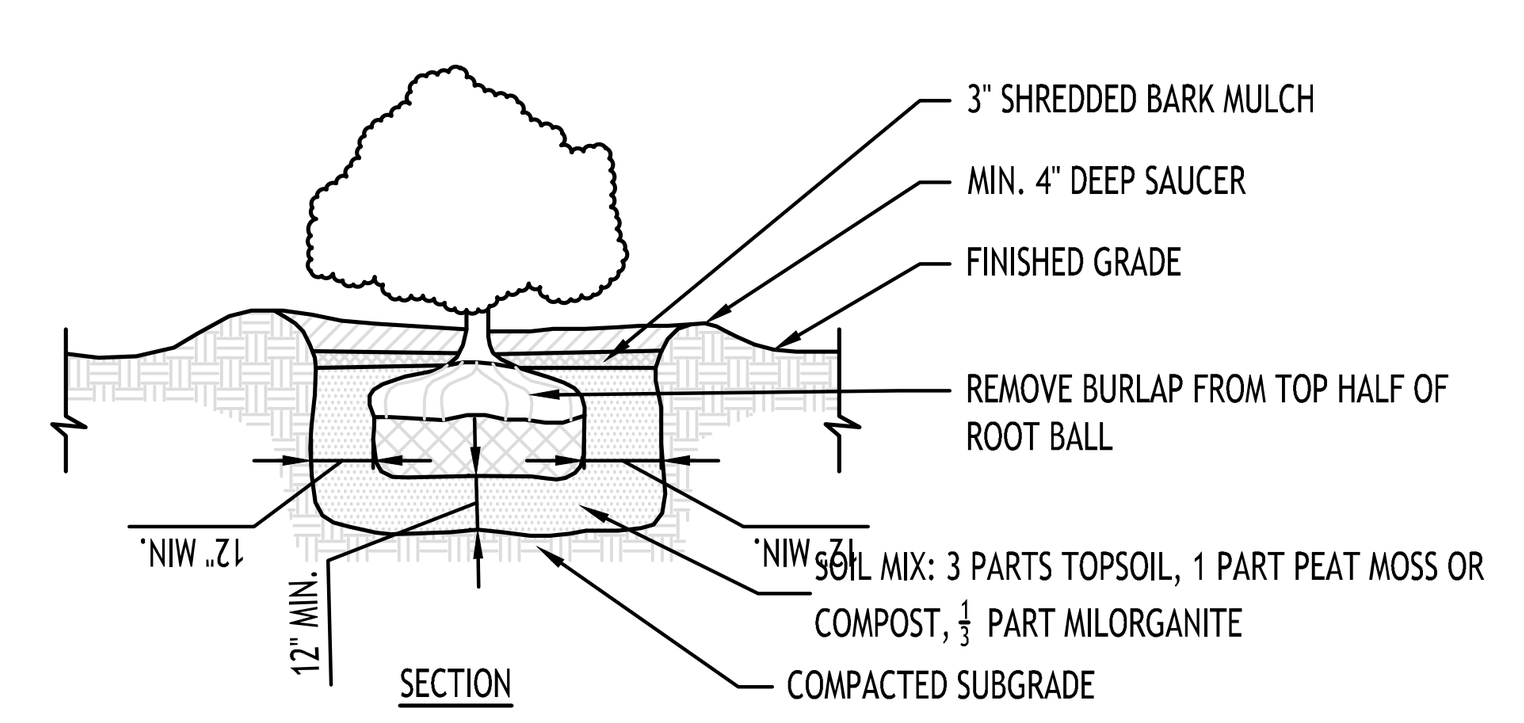
PER TOWN OF AMHERST CODE:
ALL DEAD OR MISSING EXISTING PLANTS FROM THE PREVIOUSLY APPROVED SITE PLANS SHALL BE REPLACED/INSTLALED AS PER ZONING ORDINANCE 7-2-3(A)(1).
CONTRACTOR SHALL REFER TO PREVIOUSLY APPROVED SITE AND LANDSCAPE PLANS BY OTHERS FOR ALL LANDSCAPE REFERENCES.

LANDSCAPE NOTES:

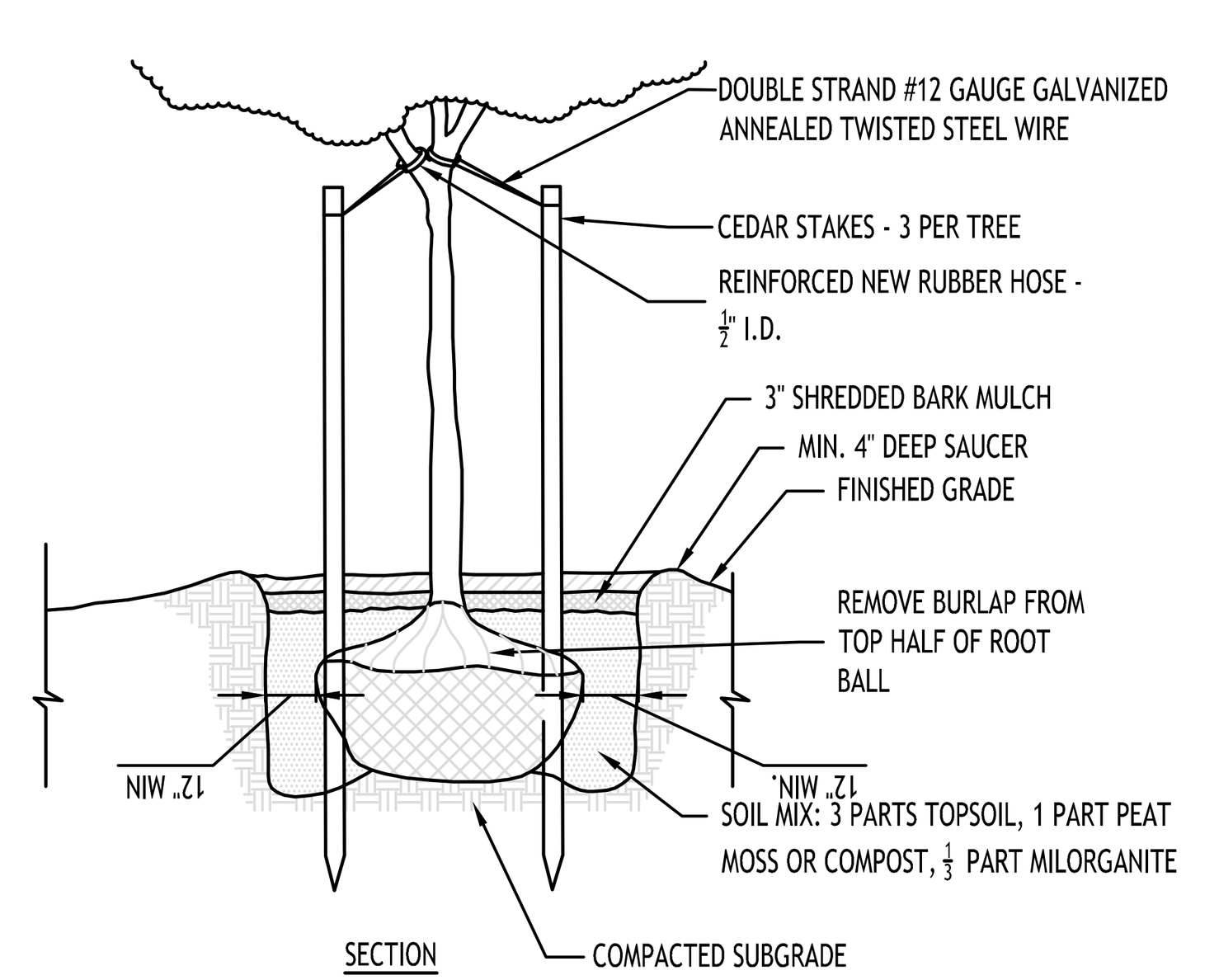
1. ALL PLANTS INSTALLED SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED ON THE PLANS AND IN THE LATEST EDITION ON THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI 260.1
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF, THE QUANTITIES SHOWN ARE A MINIMUM AND ARE FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANTING MATERIAL LOCATIONS AND CONTACT THE OWNERS FIELD REPRESENTATIVE PRIOR TO ACTUALL INSTALLING. THE PLANTING MATERIAL LOCATIONS SHOWN ON THE PLANS ARE TO CONVEY THE DESIGN INTENT ONLY, ACTUAL LOCATIONS WILL BE FINALIZED BY THE OWNERS FIELD REPRESENTATIVE AT THE TIME OF INSTALLATION.
4. THE CONTRACTOR IS HEREBY NOTIFIED THAT IF UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE PLANTINGS, ALL PROPOSED PLANTINGS SHALL BE INSTALLED A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY, CONTACT THE OWNERS FIELD REPRESENTATIVE IF PLANTINGS SHOWN ON THE PLANS VIOLATE THIS SITUATION.
5. ALL TREES SHALL BE INSTALLED A MINIMUM OF 20' FROM ANY OVERHEAD ELECTRIC LINES.
6. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 4 PARTS TOPSOIL, 1 PART PEAT MOSS, ⅓ PART WELL ROTTED MANURE, 10 LBS 5-10-5 PLANTING FERTILIZER THOROUGHLY MIXED PER CUBIC YARD.
7. STAKE AND WRAP TREES IMMEDIATELY FOLLOWING INSTALLATION.
8. ALL PLANTED AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED PINE BARK MULCH OVER 10 MIL. WEED MAT EQUAL TO "WEEDBLOCK" BY EASY GARDENER OR DEWITT WEED BARRIER.
9. THE AREAS ON THE PLAN TO BE SEEDED SHALL HAVE 4" MINIMUM OF TOPSOIL, DISK PLOWED, LEVELED AND HAND RAKED SMOOTH. SURFACE SHALL BE ROLLED TO REMOVE LUMPS.
10. ALL SEEDED AREAS SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE SPECIFICATION INDICATED. WHERE REQUIRED BY CLIMATIC CONDITIONS, SLOPE OR SEASON OF PLANTING, SOD MAY BE SUBSTITUTED FOR SEEDING IN ORDER TO ACHIEVE THE REQUIRED COVERAGE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MOWING AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER, THIS SHALL INCLUDE WATERING DAILY FOR 15 DAYS OR AS REQUIRED BY WEATHER CONDITIONS AND RE-SEEDING OF THIN SPOTS FOLLOWING THE GERMINATION OF THE SEEDS.

PLANTING NOTES:

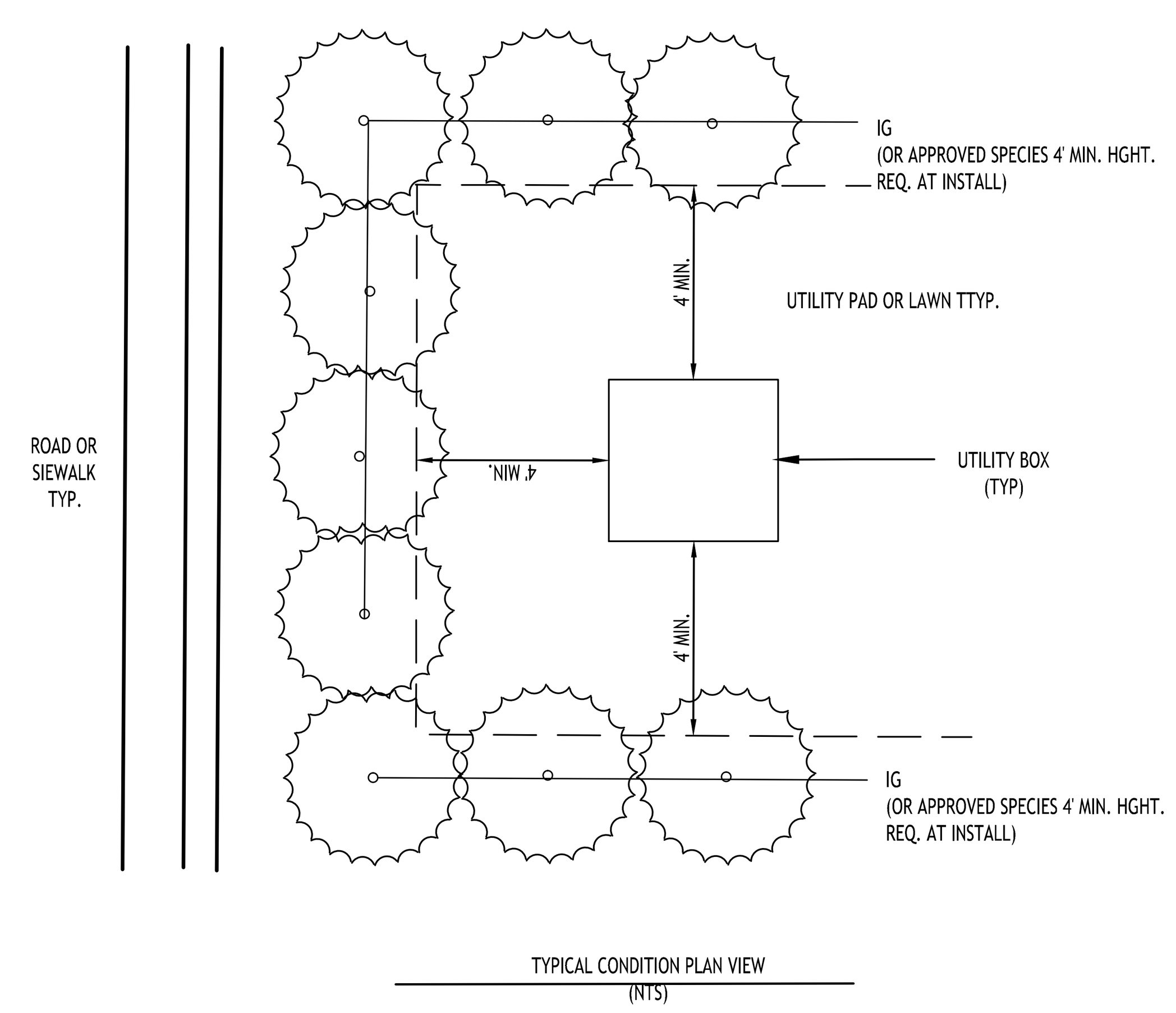
1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SCREENED TOPSOIL. SEASONAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.



SHRUB PLANTING DETAIL



TREE PLANTING DETAIL



NOTES:

1. USE EVERGREEN SHRUBS TO SCREEN ALL ABOVEGROUND UTILITY BOXES AND INFASTRUCTURE FROM ADJACENT ROAD OR SIDEWALK PER TOWN OF AMHERST CODE
2. PROVIDE A MINIMUM 4' OFFSET FROM THE SHRUBS PLANTED EDGE TO THE EDGE OF THE UTILITY BOX TO ALLOW ENOUGH CLEARANCE FOR UTILITY MAINTENANCE TO BE PERFORMED

TYPICAL SHRUB PLANTING TO SCREEN UTILITY INFASTRUCTURE

PLANTING NOTES:

1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH. LOCATIONS TO BE COORDINATED IN FIELD WITH OWNER REP.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS. SEASONAL FLOWER BEDS SHALL RECEIVE "PREEN" HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS. LOCATIONS TO BE COORDINATED IN FIELD WITH OWNER REP.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

Plant Finish Schedule -1692 Maple Road -Amherst, New York

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
		DECIDUOUS TREES			
ARb	2	Acer rubrum 'Bowhall"	Red Maple -Bowhall	2 1/2" - 3" CAL.	B&B, HT. 40', W 35'
GT	1	Gleditsia triacanthos 'Inermis'	Honey locust - Skyline	2 1/2" - 3" CAL.	B&B, HT. 40', W 35'
GTd	5	Gleditsia triacanthos i. "Draves" PP21698	Draves Honey Locust	2 1/2" - 3" CAL.	B&B, HT. 45', W 20'
NSW	3	Nyssa sylvatica 'Wildfire'	Wildfire Tupelo	2 1/2" - 3" CAL.	B&B, HT. 35', W 18'
QB	8	Quercus bicolor	Swamp White Oak	2 1/2" - 3" CAL.	B&B, HT. 60', W 40'
QCc	2	Quercus coccinea	Scarlet Oak	2 1/2" - 3" CAL.	B&B, HT. 50', W 25'
QPgp	2	Quercus palustris 'Green Pillar'	Green Pillar Pin Oak	2 1/2" - 3" CAL.	B&B, HT. 35', W 18'
TCc	3	Tilia cordata corinthian	Corinthian Linden	2 1/2" - 3" CAL.	B&B, HT. 35', W 18'
		SMALL / ORNAMENTAL TREES			
CC	3	Cercis canadensis	Redbud	1 1/2" x 2 1/2" CAL.	B&B, HT.20', W 25'
CK	3	Cornus kousa	Kousa Dogwood	1 1/2" x 2 1/2" CAL.	B&B, HT. 20', W 20'
		EVERGREEN TREES			
AC	2	Abies concolor	White Fir	6-8' Tall	B&B, HT. 60', W 20'
CJbd	3	Cryptomeria Japonica 'Black Dragon'	Back Dragon Japanese cedar	6-8' Tall	B&B, HT. 20', W 8'
JS	16	Juniperus scopolarum 'Skyrocket'	Skyrocket Juniper	6-8' Tall	B&B, HT. 16', W 4'
JV	8	Juniperus virginiana 'Emerald Sentinel'	Eastern Red Cedar	6-8' Tall	B&B, HT. 20', W 8'
PA	24	Picea abies	Norway Spruce	6-8' Tall	B&B, HT. 60', W 25'
TsC	2	Tsuga canadensis	Eastern Hemlock	6-8' Tall	B&B, HT. 20', W 8'
		SHRUBS			
IGc	32	Ilex glabra compacta	Inkberry Holly - Compact	24-36" Tall	B&B, HT. 4', W 4'
SNbl	11	Sambucus nigra "black lace"	Black Lace Eldeberry	24-36" Tall	B&B, HT. 4', W 3'
VC	25	Viburnum carlesii	Korean Spice Viburnum	24-36" Tall	B&B, HT. 4', W 4'
		GRASSES / PERENNIALS / GROUNDCOVERS			
BB	15	Andropogon Gerardii	Big Blue Stem Andropogon	24-36" Tall	Cont. #3, HT. 4', W 6'
KF	3	Calamagrostis x acutiflora	Karl Foerster Reed Grass	24-36" Tall	Cont. no.3 - 3'Tall, 3'Wide
LM	22	Liriope muscari	Big Blue Lilyturf	12-16" Tall	Cont. no.3 - 3'Tall, 3'Wide
NxF	14	Nepeta x faassineii	Walker's Low Catmint	18-24" Tall	Cont. no.3 - 2'Tall, 3'Wide

30 Ft. Dedicated Vegetative Preservation Area

Size of Existing Tree that is Preserved		Credits Toward Number of Required New Trees
Deciduous Trees (DBH)	Evergreen Trees (height)	
Less than 4 in.	Less than 5 ft.	0.5
4 in. or more but less than 6 in.	5 ft. or more but less than 10 ft.	1
6 in. or more but less than 12 in.	10 ft. or more but less than 15 ft.	2
12 in. or more	15 ft. or more	3

The Preservation area has 2 trees with an 8" and 10" trunk – and 4 trees with 18-24" trunk diameter – these trees are all in good condition. The credit towards number of required new trees = (2x2) + (4x3) = **16 Trees Total Credit.**

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20' 20 0 20 40Ft.

CARMINAWOOD DESIGN
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Proposed Medical Building
1692 Maple Road
Amherst, NY

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Attachment: Site Plan Set uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)



Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
2765 Dodge Road , East Amherst, NY 14051-2113
Phone: 716-364-5564
RCWLandscapeArchitect@gmail.com

DRAWING NAME:
Landscape Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
L-100

Project No: 24-4153

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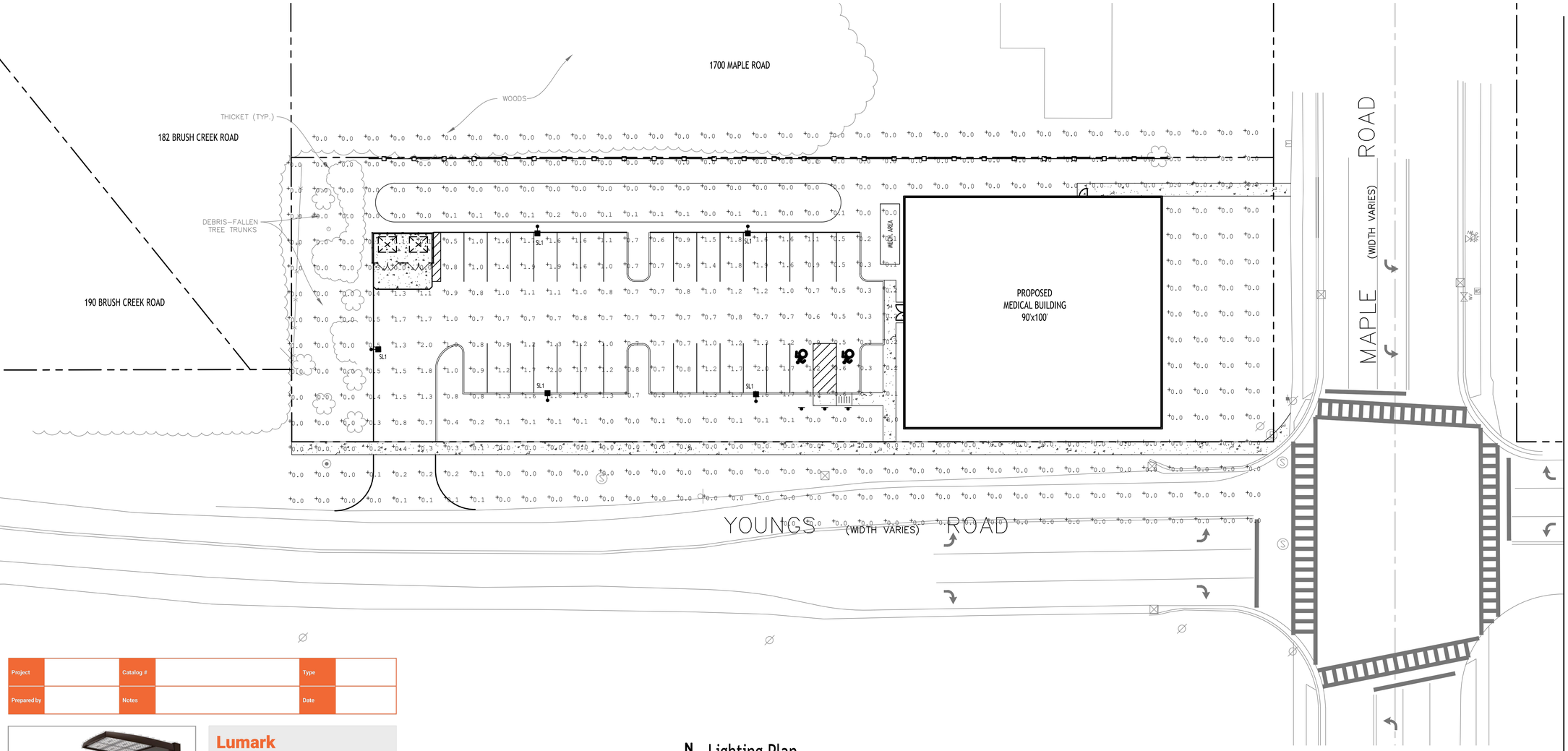

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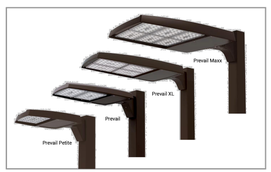
Lighting Plan

SCALE: 1"=20'

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

Prevail Discrete LED

Area / Site Luminaire

Product Features

BAA TAA BABA FADC

Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6
- Control Options page 8

Product Certifications

DLC DLC PREMIUM FC RoHS IP66 5YEAR

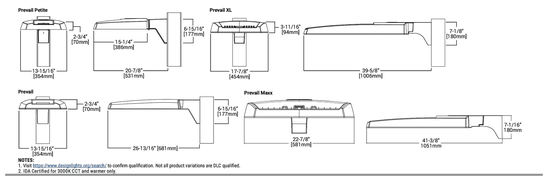
Quick Facts

- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

Dimensional Details



NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

COOPER Lighting Solutions
a Signify business

PS50000SEN page 1
July 1, 2025 12:08 PM

Lighting Calculations Prepared by Quality Lighting Systems
For pricing please contact Paul Speicher at pspeicher@qlsny.com

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts	Mounting Height	BUG Rating
▪■	5	SL1	Single	PRV-P-PA1A-740-U-T3-HSS	0.900	3406	30.7	153.5	15	B0-U0-G1

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Object_2 Object_2	Illuminance	Fc	0.30	2.0	0.0	N.A.	N.A.
PARKING LOT SURFACE	Illuminance	Fc	1.10	2.0	0.5	2.20	4.00

NOTE:

1. ALL SITE LIGHTING TO BE DARK SKY COMPLIANT AND FIXED AT 90 DEGREES. LIGHT POLES TO BE MOUNTED AT 15 FT.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20' 20 0 20 40Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Medical Building

1692 Maple Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	8/15/25

Attachment: Site Plan Set uploaded 8/18/2025 (30598 : SP-2025-05, 1692 Maple Road)

STATE OF NEW YORK R. CHRISTOPHER WOOD LICENSED PROFESSIONAL ENGINEER 076394

DRAWING NAME:

Lighting Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

LP-100

Project No: 24-4153

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

Meeting: 08/21/25 06:30 PM
Department: Planning
Category: Site Plan and Relief from Conditions of Site Plan
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 30599

ADOPTED

PLANNING BOARD ITEM (ID # 30599)

Proposed Youth Center Building Addition, SP-2014-10_C

Property located at 1350 Eggert Road
1097 Group LLC, Petitioner

Proposal for an addition of a 7,780 S.F. 1-story building for lease by the Town of Amherst Youth and Recreation Department on the western portion of the site.

Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, represented the petitioner, explained the proposal and was available to answer questions from the Board. Tom Fox, Ellicott Development, was also present.

In response to the Board's questions, Mr. Hopkins stated the proposed building is not on the easement and the Planning Department prefers a Parking Analysis instead of obtaining a variance.

Jody Snyder, 215 Crosby Blvd.; Charles Collana, 237 Crosby Blvd.; and Bob Lally, 36 Rosedale Blvd. spoke in opposition to the proposal.

Kevin Curry, 4272 Roxbury Dr, spoke in favor of the proposal.

Following discussion, Mr. O'Rourke moved to approve the Negative Declaration. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the approval of the Negative Declaration, Mr. O'Rourke moved to approve the request based on the resolution. The motion was seconded by Mr. Raffaele and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

ATTACHMENTS:

- SP-2014-10_C_application_082125 (PDF)
- SP-2014-10_C_drawings_082125 (PDF)
- SP-2014-10C signed neg dec 082125 (PDF)
- SP-2014-10C signed resolution 082125 (PDF)

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Jonathan O'Rourke, Board Member
SECONDER:	Joseph P. Raffaele Jr., Board Member
AYES:	Chmiel, Davis, Gill, Kahn, Raffaele Jr., O'Rourke
ABSENT:	Brittany Lee Penberthy

Site Plan Application & Supporting Documentation
Youth Center Project
Location: 1350 Eggert Road
Date: June 23, 2025

TOWN OF AMHERST PLANNING DEPARTMENT

Application for Major Site Plan Review

For Official Use

File #: _____ **Acreage** _____ **Fee $** _____

Address Verified by Assessor's Office _____ (VERIFIED BY / DATE)

Materials Received by Planning Department _____ (RECEIVED BY / DATE)

Fee Paid to Town Clerk _____ (RECEIVED BY / DATE)

Site Plan Review		**Fill In Applicable Fees**
1 acre or less	$1,250.00	$1,250.00
Each additional acre or fraction thereof	$ 650.00/acre	
Amendments to Site Plans	$1,200.00	
Request for Relief of / Change to Conditions of Site Plan Approval	$1,200.00	
Request for Extension of Site Plan Approval	$ 450.00	
Stormwater Pollution Prevention Plan		
1 - 4.99 Acres	$ 500.00	$500.00
5 - 10 Acres	$ 750.00	
>10 Acres	$1,000.00	
Affidavit Fee for Public Hearing	$ 15.00	$15.00
	TOTAL FEE:	**$** 1,760.00

To Be Completed By Applicant

Petitioner:

Name: 1097 Group, LLC

Address: 295 Main Street, Suite 700

Buffalo, NY 14203
city state zip code

Phone: 716-854-0060 Fax: _____

E Mail: tfox@ellicottdevelopment.com

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

MAJOR SITE PLAN APPLICATION (con't) ***Page 2***

Representative (Architect, Engineer, Landscape Architect, Surveyor, or Attorney)**:**

Name: Sean Hopkins, Esq.

Address: 35 California Drive, Suite 100

Williamsville, New York 14221

city state zip code

Phone: 716.510-4338 Fax: _____

E Mail: shopkins@hsmlegal.com

Project Location (must be verified by Town Assessor's Office)**:**

Address: 1350 Eggert Road

SBL No(s): 67.82-3-9.11

Project Name: Town of Amherst Youth Center

Project Description: See Exhbit 1.

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

If this petition is an amendment to a previously approved site plan, please describe the proposed changes (include type and size of existing structures and number of existing parking spaces):

See Exhibit 1

	existing	proposed	total
Gross Floor Area (non-residential):	0	7,780	7,780
Gross Floor Area Residential:	27,860	0	27,860
Number of Residential Units:	32	0	32
Number of Parking Spaces:	94	-6	88

Acreage of Parcel: 3.3 acres

(list each parcel separately)

Frontage on Public Roads: Eggert Road, Crosby Blvd

(list each road separately)

Existing Zoning District(s) OB-TNB-1

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

EXHIBIT 1

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

EXHIBIT 1 OF SITE PLAN AMENDMENT APPLICATION

PROJECT DESCRIPTION - PROPOSED YOUTH CENTER
1350 EGGERT ROAD

I. Description of the Multifamily Project:

The Applicant is seeking Site Plan Approval from the Planning Board in connection with the development of a portion of 1350 Eggert Road (the "Project Site") as a Youth Center to be leased to the Town of Amherst.

The single-story youth center building will consist of approximately 7,780 sq. ft. The documentation attached to this Site Plan Application consists of the following:.

- **Exhibit 2**: Part 1 of the Full Environmental Assessment Form prepared pursuant to the State Environmental Quality Review Act ("SEQRA") dated June 23, 2025 with attached Page 5[a];
- **Exhibit 3**: Reduced-size copy of the Site Plan [Drawing C-100 – Date: June 23, 2025];
- **Exhibit 4**: Reduced-size copy of the Landscape Plan [Drawing L-100 – Date: 06/23/25] prepared by Carmina Wood Design;
- **Exhibit 5**: Site Plan Resolution adopted by the Planning Board June 19, 2014; and
- **Exhibit 6**: Negative Declaration issued by the Planning Board pursuant to SEQRA on June 19, 2014;

The project involves an amendment of the Site Plan previously approved by the Planning Board on June 19, 2014 for the existing development of the Project Site consisting of apartments for lease and other existing site improvements.

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

EXHIBIT 2

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Proposed Town of Amherst Youth Center		
Project Location (describe, and attach a general location map): 1350 Eggert Road - Town of Amherst - Erie County		
Brief Description of Proposed Action (include purpose or need): The proposed project ("action") consists of a single-story youth center building to be leased to the Town of Amherst consisting of approximately 7,780 sq. ft. and related site improvements to be located at 1350 Eggert Road ("Project Site"). The proposed action has been defined broadly to include all required discretionary approvals and permits as well as all proposed site improvements including Site Plan Approval from the Town of Amherst Planning Board. The project is an Unlisted Action pursuant to the State Environmental Quality Review Act ("SEQRA") and will not result in any potentially significant adverse environmental impacts.		
Name of Applicant/Sponsor: 1097 Group LLC c/o Sean Hopkins, Esq.	Telephone: 716.510-4338 E-Mail: shopkins@hsmlegal.com	
Address: 5500 Main Street, Suite 343		
City/PO: Williamsville	State: NY	Zip Code: 14221
Project Contact (if not same as sponsor; give name and title/role):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☐Yes ☑No		
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Site Plan Amendment	June 23, 2025
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☐Yes ☑No		
e. County agencies ☐Yes ☑No		
f. Regional agencies ☐Yes ☑No		
g. State agencies ☐Yes ☑No		
h. Federal agencies ☐Yes ☑No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☑Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
OB-TNB-1

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site?

C.4. Existing community services.

a. In what school district is the project site located? Amherst Central School District

b. What police or other public protection forces serve the project site?
Town of Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?
Volunteer Fire Department

d. What parks serve the project site?
Various parks including public park contiguous to the project site

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? 7,780 sf single-story youth center building

b. a. Total acreage of the site of the proposed action? 3.3 acres
b. Total acreage to be physically disturbed? .5 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 3.3 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

3.a

f. Does the project include new residential uses? ☐Yes ☑No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☐Yes ☑No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐Yes ☑No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐Yes ☑No

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No

If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☐No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes ☑No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No
If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No
If Yes:

- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use, or create a new demand for water? ☑Yes ☐No
If Yes:

i. Total anticipated water usage/demand per day: ~~900~~ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑Yes ☐No
If Yes:

- Name of district or service area: ECWA Consolidated Water District
- Does the existing public water supply have capacity to serve the proposal? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No
- Do existing lines serve the project site? ☑Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☑No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☐No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑Yes ☐No
If Yes:

i. Total anticipated liquid waste generation per day: 1,900 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
Sanitary wastewater.

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No
If Yes:

- Name of wastewater treatment plant to be used: Town of Amherst Wastewater Treatment Plant
- Name of district: Town of Amherst Consolidated Sanitary Sewer District
- Does the existing wastewater treatment plant have capacity to serve the project? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☑ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or .4 acres (impervious surface)

_____ Square feet or 3.3 acres (parcel size)

ii. Describe types of new point sources. Runoff from impervious surfaces

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

Municipal system.

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☑ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☑ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☑ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☐No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7:00 to 7:00
- Saturday: 7:00 to 5:00
- Sunday: Not Applicable
- Holidays: Not Applicable

ii. During Operations:

- Monday - Friday: To be determined by Town
- Saturday: TBD
- Sunday: TBD
- Holidays: TBD

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

i. Provide details including sources, time of day and duration:

Construction equipment and activities limited to daytime hours is a temporary and unavoidable adverse impact.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: _____

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

Lighting on building will comply with the stringent lighting standard contained in the Zoning Code.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____
- Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____
- Operation: _____

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s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☑ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☑ Other (specify): Park

ii. If mix of uses, generally describe:

There are a mixture of land uses and zoning classifications in the vicinity of the Project Site.

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	1.8	2.2	.4
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: Greenspace/Landscaping	1.5	1.1	(.4)

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c. Is the project site presently used by members of the community for public recreation? ☑ Yes ☐ No
i. If Yes: explain: The proposed single-story youth center building to be leased to the Town of Amherst

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☑ Yes ☐ No
If Yes,
i. Identify Facilities:
Buffalo Academy of Sacred Heart

e. Does the project site contain an existing dam? ☐ Yes ☑ No
If Yes:
i. Dimensions of the dam and impoundment:
- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No
If Yes:
i. Has the facility been formally closed? ☐ Yes ☐ No
- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No
☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____
☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No
If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

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v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☐ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? >3 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site:

Farmington channery loam [FaB]	95.9 %
Ovid silt loam [OvA]	3.2 %
Urban land-Wassaic complex [Ux]	.9 %

d. What is the average depth to the water table on the project site? Average: >5 feet

e. Drainage status of project site soils:

☐	Well Drained:	% of site
☑	Moderately Well Drained:	.9 % of site
☑	Poorly Drained	99.1 % of site

f. Approximate proportion of proposed action site with slopes:

☑	0-10%:	100 % of site
☐	10-15%:	% of site
☐	15% or greater:	% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☐ Yes ☑ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☐ Yes ☑ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

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m. Identify the predominant wildlife species that occupy or use the project site:
Typical suburban species.

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation):
ii. Source(s) of description or evaluation:
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:
i. Species and listing (endangered or threatened):

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:
i. Species and listing:

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use:

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number:

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No
i. If Yes: acreage(s) on project site?
ii. Source(s) of soil rating(s):

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name:
ii. Basis for designation:
iii. Designating agency and date:

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e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☑ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: Eligible property:School 13 - Eggert Rd Elementary School, Eligible property:St. Benedicts Roman Catholic Church Complex

iii. Brief description of attributes on which listing is based:

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s):

ii. Basis for identification:

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource:

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.):

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation:

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name 1097 Group LLC Date June 23, 2025

Signature  Title Attorney for Project Sponsor

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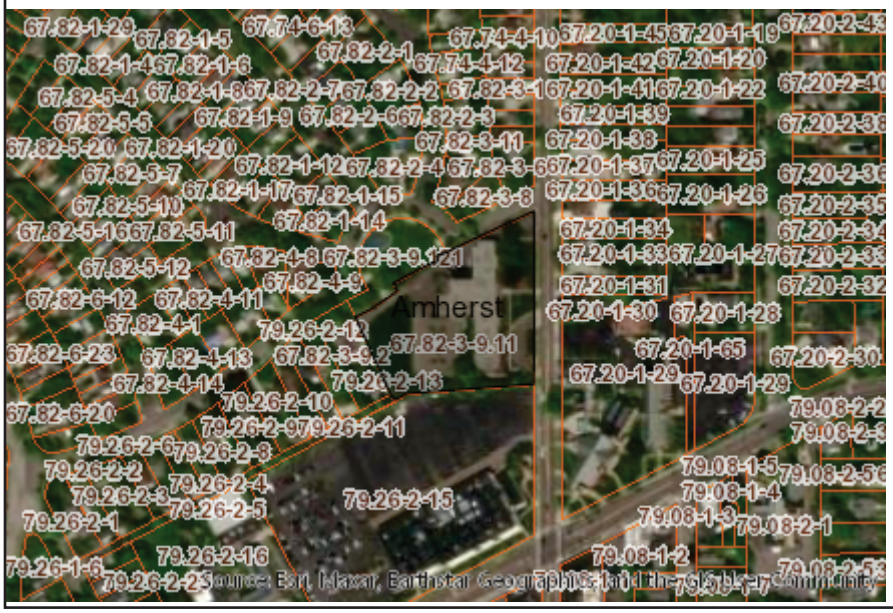
PRINT FORM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No

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E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Eligible property:School 13 - Eggert Rd Elementary School, Eligible property:St. Benedicts Roman Catholic Church Complex
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

3.a

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TOWN OF AMHERST ATTACHMENT
State Environmental Quality Review
ENVIRONMENTAL ASSESSMENT FORM

1. For each applicable category of proposed new structures, including additions to existing structures, provide the following information for all soil types on the project site (*according to Soil Survey of Erie County, NY; Table 11, Building Site Development, pp 294-305):*

Soil Name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Farmington Channery Loam	Severe	Severe	Severe	Severe	Moderate
Ovid Silt Loam	Severe	Severe	Severe	Severe	Severe
Urban Land-Wassaic Complex	Moderate	Moderate	Moderate	Moderate	Moderate

2. If the Soil survey indicates either "severe" or "moderate" suitability for the proposed types of construction, a geotechnical and hydrological analysis based on one test per 3.5 acres of project area must be provided (per Town Board resolution, 3/17/03, amended 6/16/03).

_____ Geotechnical report attached _____ Not applicable

3. Is your property located: On Youngs Road between Dodge and Klein Roads? □ Yes x No
On Wehrle Dr. between Spindrift Dr. and Oakwood Rd? □ Yes x No

If so, the property may be within an area of the Town that is affected by a moratorium on connections to the sanitary sewer system.

4. Are there alternative locations on the site for this project? □ Yes x No

5. Location and size of real property owned by petitioner within one (1) mile of subject proposal:

Not Applicable.

6. Are you aware of current or future plans or intentions by others in the Town of Amherst to develop property within 1000± ft. of the present project request: □ Yes ☒ No
Describe: Not Applicable.

(Potential environmental impacts from adjacent or nearby projects undergoing the approval process will receive a coordinated environmental review to determine cumulative effects on common receivers (e.g. traffic and drainage corridors) and other relevant environmental concerns.)

7. Maximum number of vehicular trips to be generated per peak hour upon completion of project 15-25
Source: _____

8. Will blasting occur during construction? □ Yes ☒ No

9. Does the project propose to connect and be tributary to the public sanitary sewer system? ☒ Yes □ No

10. Proposed net additional gallons per day (gpd) of sanitary sewer discharge upon completion of project:
1,900 average flow 8,328 peak flow.

(Average flows of 2,500 gpd or greater will require an Engineer's Report that includes a detailed downstream sewer capacity analysis and the identification of and commitment to required I/I offset work during peak wastewater flow conditions.)

11. Based on the Town's *2011 Reconnaissance Level Survey of Historic Resources,* is your property 'blue-rated' for historic significance? □ Yes ☒ No

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EXHIBIT 3

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

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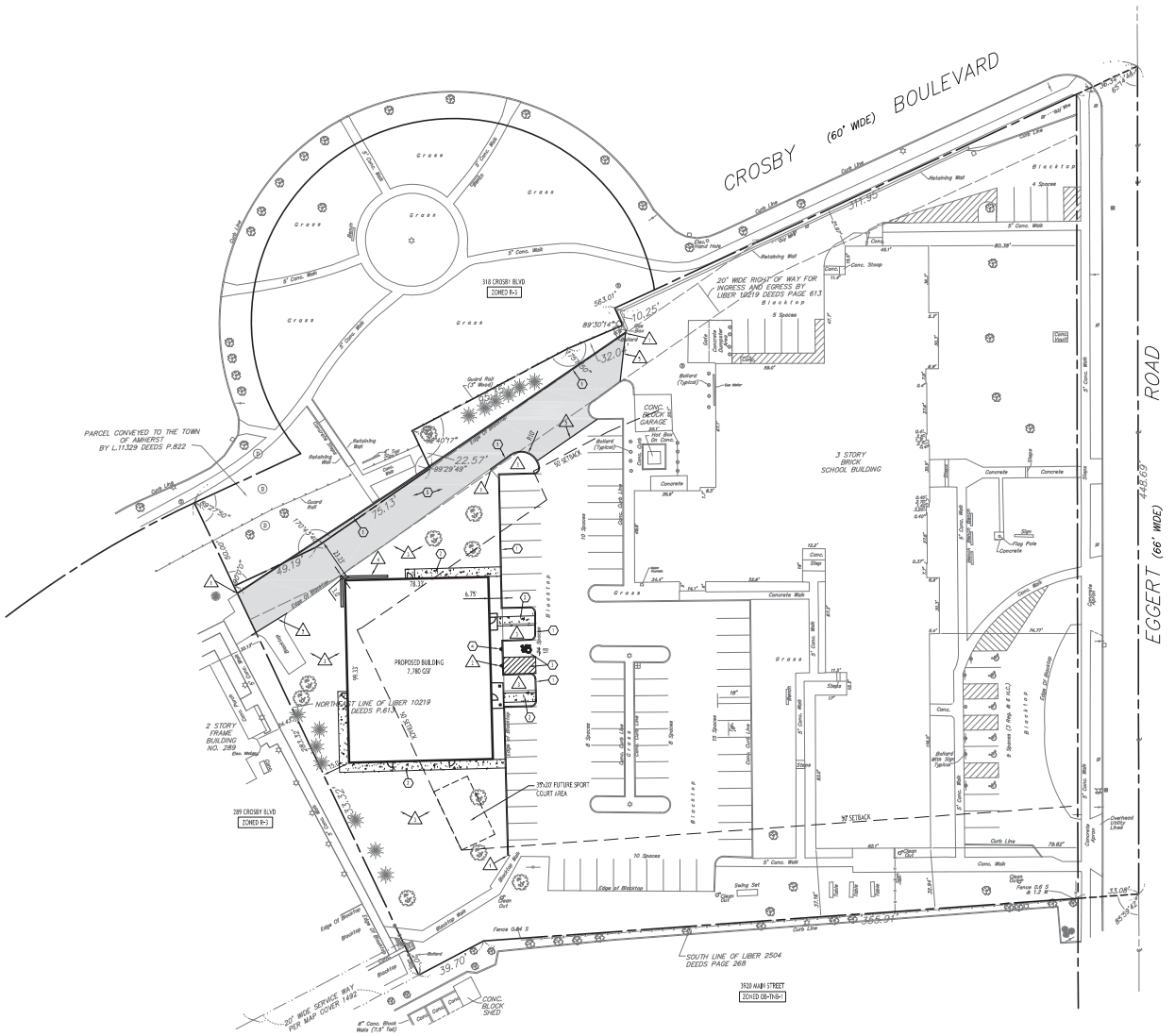

Site Data		
SITE AREA = 3.3 AC		
ZONED: GB-TNB-1		
USE: 7,780 SF COMMUNITY BUILDING		
SETBACKS - BUILDING	REQUIRED	PROVIDED
FRONT	0' MIN. / 0' MAX.	> 6.0' *
SIDE (ABUT. RES. /NON RES)	19' / 10'	32.54' MIN.
REAR (ABUT. RES. /NON RES)	15' / 0'	13.0' MIN.
SETBACKS - PARKING		
FRONT	5'	> 5'
SIDE (ABUT. RES. /NON RES)	10' / 5'	> 5'
REAR (ABUT. RES. /NON RES)	10' / 5'	> 10'
TOTAL VEHICLE SPACES	87	87
GREENSPACE		
INTERIOR PARKING GREENSPACE:	5% (1,810 SF)	20% (7,240 SF)
MAX. BUILDING HEIGHT	28'	18.67
MAX. IMPERVIOUS COVERAGE	90%	2.4 AC (72.7%)

* VARIANCE REQUIRED

DETAIL LEGEND SEE SITE DETAIL SHEET

1. TYPE "A" CONCRETE CURB
2. CONCRETE SIDEWALK
3. HANDICAPPED PAVEMENT MARKINGS
4. HANDICAPPED PARKING SIGN
5. STANDARD DUTY ASPHALT PAVEMENT

NOTE LEGEND

A1. RUNOUT CURB IN 2' OR MATCH EXISTING CURB
A2. INSTALL "NO PARKING" SIGN, M.U.T.C.D. SIGN NO. P1-1C
A3. LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
A4. RETAINING WALL, EITHER "REDI ROCK" OR APPROVED EQUAL
A5. SAWCUT LINE, MATCH EXISTING EDGE OF PAVEMENT

SITE NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS SHALL HAVE 4" MIN. OF TOPSOIL AND SEED.
3. ALL DIMENSIONS FROM PROPERTY LINES SHALL BE MEASURED PERPENDICULAR TO THE PROPERTY LINE.
4. CENTER ENTRANCE SIDEWALKS ON DOOR OPENINGS.
5. BUILDING DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.

GENERAL NOTES:

1. INSTALL ALL MATERIALS TO MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
2. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNERS APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
3. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
4. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
6. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.

SITE LEGEND
PROPERTY LINE
PROPOSED CURBING
PROPOSED SIDEWALK / CONCRETE PAD
PROPOSED SIGN

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 30 0 30 60FT.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Amherst Youth Center
1350 Eggert Road
Amherst, NY

REVISIONS:
No. Description Date

DRAWING NAME:
Site Plan

Date: 6/23/25
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
C-100

Project No:

Packet Pg. 948

3.a

EXHIBIT 4

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

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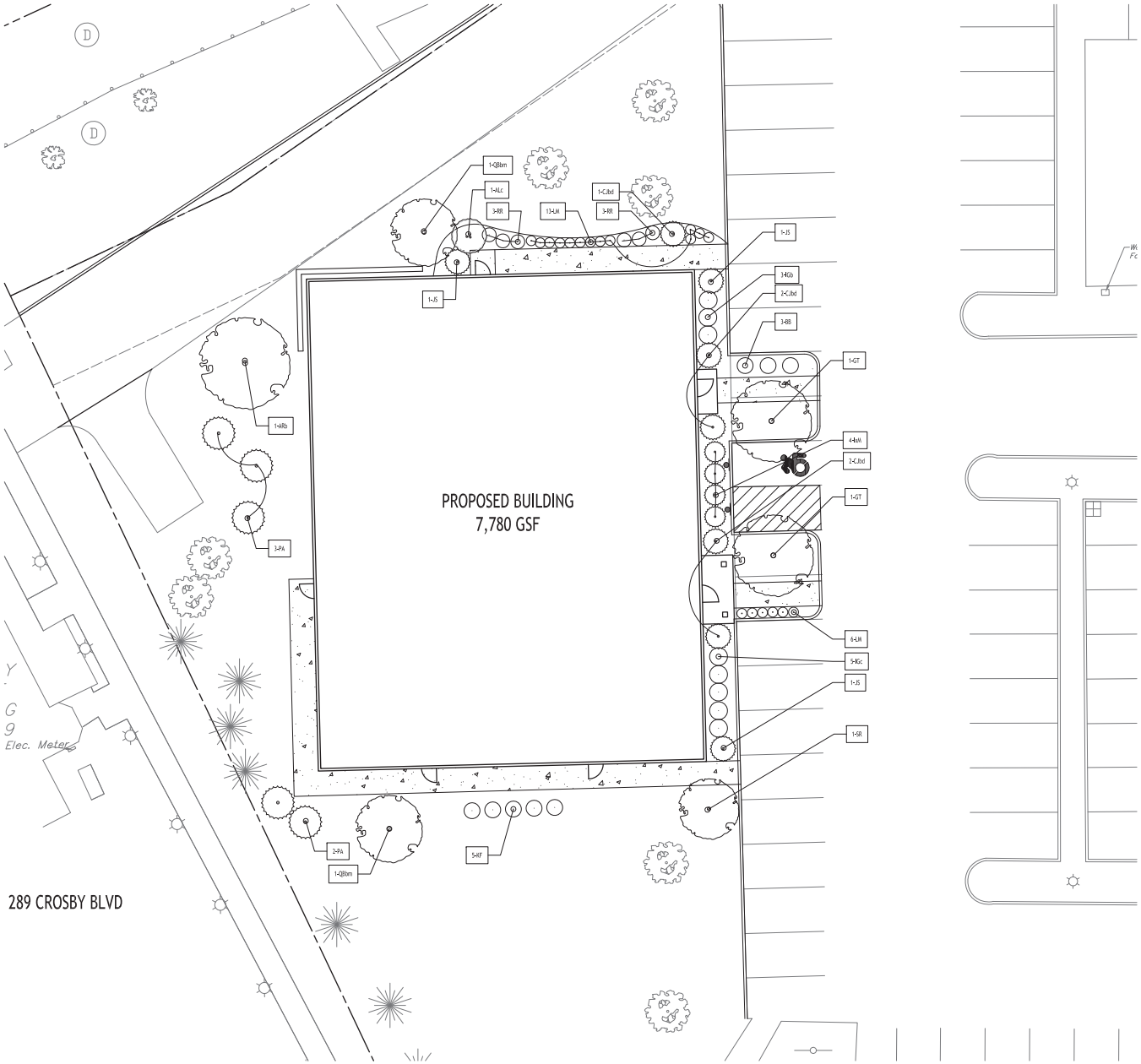

Landscape Plan
SCALE: 1"=10'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

10' 10 0 10 20Ft.

LANDSCAPE NOTES:

1. ALL PLANTS INSTALLED SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED ON THE PLANS AND IN THE LATEST EDITION ON THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60.1
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF, THE QUANTITIES SHOWN ARE A MINIMUM AND ARE FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANTING MATERIAL LOCATIONS AND CONTACT THE OWNERS FIELD REPRESENTATIVE PRIOR TO ACTUAL INSTALLING. THE PLANTING MATERIAL LOCATIONS SHOWN ON THE PLANS ARE TO CONVEY THE DESIGN INTENT ONLY, ACTUAL LOCATIONS WILL BE FINALIZED BY THE OWNERS FIELD REPRESENTATIVE AT THE TIME OF INSTALLATION.
4. THE CONTRACTOR IS HEREBY NOTIFIED THAT IF UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE PLANTINGS, ALL PROPOSED PLANTINGS SHALL BE INSTALLED A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY, CONTACT THE OWNERS FIELD REPRESENTATIVE IF PLANTINGS SHOWN ON THE PLANS VIOLATE THIS SITUATION.
5. ALL TREES SHALL BE INSTALLED A MINIMUM OF 20' FROM ANY OVERHEAD ELECTRIC LINES.
6. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 4 PARTS TOPSOIL, 1 PART PEAT MOSS, ½ PART WELL ROTTED MANURE, 10 LBS 5-10-5 PLANTING FERTILIZER THOROUGHLY MIXED PER CUBIC YARD.
7. STAKE AND WRAP TREES IMMEDIATELY FOLLOWING INSTALLATION.
8. ALL PLANTED AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED FINE BARK MULCH OVER 10 MIL. WEED MAT EQUAL TO "WEEDBLOCK" BY EASY GARDENER OR DEWITT WEED BARRIER.
9. THE AREAS ON THE PLAN TO BE SEEDED SHALL HAVE 4" MINIMUM OF TOPSOIL, DISK PLOWED, LEVELED AND HAND RAKED SMOOTH. SURFACE SHALL BE ROLLED TO REMOVE LUMPS.
10. ALL SEEDED AREAS SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE SPECIFICATION INDICATED. WHERE REQUIRED BY CLIMATIC CONDITIONS, SLOPE OR SEASON OF PLANTING, SOD MAY BE SUBSTITUTED FOR SEEDING IN ORDER TO ACHIEVE THE REQUIRED COVERAGE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MOWING AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER, THIS SHALL INCLUDE WATERING DAILY FOR 15 DAYS OR AS REQUIRED BY WEATHER CONDITIONS AND RE-SEEDING OF THIN SPOTS FOLLOWING THE GERMINATION OF THE SEEDS.

PLANTING NOTES:

1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SCREENED TOPSOIL. SEASONAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

PER TOWN OF AMHERST CODE:
CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK, AND LIMB DAMAGE INCLUDING BY NOT LIMITS TO, RETAIN WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS AS PER ZONING ORDINANCE 7-2-38(I)3.

PER TOWN OF AMHERST CODE:
ALL REFUSE CONTAINERS & ALL MECHANICAL EQUIPMENT, UTILITY STRUCTURES, MULTIPLE METER BOARDS, GENERATORS, RPZ'S, & SIMILAR APPURTENANCES, INCLUDING THOSE WHICH ARE MOUNTED ON ANY PART OF A PRIMARY STRUCTURE SHALL BE SHOWN ON THE SITE PLAN & APPROPRIATELY SCREENED W/ A FENCE, WALL, &/OR LANDSCAPING AS REQUIRED BY 203-7-2-41(C) & 203-7-2-41(D) OF TOWN CODE. SUCH SCREENING SHALL BE SHOWN ON THE PLANS SUBMITTED FOR REVIEW. PROVIDE GATE ON REFUSE ENCLOSURE THAT SHALL BE CLOSED WHENEVER REFUSE CONTAINER(S) ARE NOT BEING SERVICED & ENCLOSURE SHALL BE HIGH ENOUGH TO SCREEN THE REFUSE CONTAINERS WITHIN.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Amherst Youth Center
1350 Eggert Road
Amherst, NY

REVISIONS:
No. Description Date

Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
2765 Dodge Road , East Amherst, NY 14051-0113
Phone: 716-364-9564
RCWLandscapeArchitect@gmail.com

DRAWING NAME:
Landscape Plan

Date: 6/23/25
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
L-100

Project No: 25-4075

EXHIBIT 5

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-2014-10

PETITIONER

Ellicott Development Company
295 Ellicott Square Building
Buffalo, NY 14203-2219

PROPERTY LOCATION

1350 Eggert Road

RCVD JUN26'14 PM 4:19

WHEREAS, the Town of Amherst Planning Board on Thursday, June 19, 2014 held a public hearing on a Site Plan for a mixed-use redevelopment project, and

WHEREAS, the Planning Board reviewed the plans and specifications for the proposed project, and

WHEREAS, the Site Plan was referred to the Town's various review agencies, and

WHEREAS, in accordance with Section 8-7-8 of the Zoning Ordinance, the Planning Board finds that:

A. The site plan includes usable space for active and passive recreation, including pedestrian connections.

B. The site plan includes open space lands for public ownership and use offered for dedication or other disposition to the Town or other public entity.

C. School sites and facilities are adequate to accommodate the proposed site plan.

D. The site plan does not include the extension of roadways to adjacent property.

WHEREAS, in accordance with Section 8-7-9 of the Zoning Ordinance, the Planning Board finds that:

A. The proposed site plan is consistent with the development plan if one is required.

B. The proposed site plan is consistent with the purpose and specific requirements of the Zoning Ordinance and generally consistent with the policies of the Comprehensive Plan.

C. Adequate services and utilities will be available prior to occupancy.

D. The site plan is consistent with all other applicable laws.

E. Pursuant to Local Law #3-82, as amended, the Planning Board has determined that the requirements of SEQR are complete and that the subject proposal is not expected to have a significant adverse effect on the environment.

F. Review by the US Army Corps of Engineers under Section 404 of the Clean Water Act may be waived because the parcel is developed.

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-2014-10

PETITIONER

Ellicott Development Company

PROPERTY LOCATION

1350 Eggert Road

RCVD JUN26'14 PM 4:19

NOW THEREFORE BE IT RESOLVED that in accordance with 6 NYCRR, Part 617 and Local Law #3-82, as amended, the Planning Board has issued a Negative Declaration attached hereto, and

NOW THEREFORE BE IT FURTHER RESOLVED that the Planning Board, in accordance with Section 8-7 of the Zoning Ordinance **approves** said Site Plan subject to the following conditions:

1. That the consideration of signs be specifically excluded from this approval since no sign details were presented.

2. That any lights used to illuminate the property be equipped with adjustable hoods to control light spread and direction so as not to create any nuisance to nearby properties, and that lights not exceed 25 feet in total height from finished grade.

3. That all dumpsters/trash containers and all mechanical equipment, utility structures, multiple meter boards, generators, and similar appurtenances, including those which are mounted on any part of a primary structure shall be appropriately screened with a fence, wall, and/or landscaping. Provide gate on dumpster enclosure that shall be closed whenever dumpster is not being serviced, enclosure shall be high enough to screen the dumpster(s) within.

4. That as-built record drawings, including location of utilities, be provided to the Engineering Department prior to issuance of a Certificate of Occupancy by the Building Department.

5. That the proposed dumpster be relocated or re-oriented so that it does not interfere with the existing 20-ft. wide ingress/egress easement.

6. That the roof drainage system for the addition be shown on plans in accordance with the Plumbing Division memorandum dated May 15, 2014.

7. That the rezoning for the subject property be finalized.

8. That as defined on Site Plan drawing C-100, an easement be provided for relocation of playground equipment, or the area donated to the Town if directed by the Town Board.

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-2014-10

PETITIONER

Ellicott Development Company

PROPERTY LOCATION

1350 Eggert Road

RCVD JUN26'14 PM 4:20

The foregoing resolution was adopted by the Town of Amherst Planning Board, June 19, 2014; moved by – Mr. Gilmour; seconded by – Mr. Simmons; ayes 6, noes 0; absent - Herberger.

Jonathan O'Rourke, Chair — Date 6/26/14

EK/jb
X:\Current_Planning\Files\Major Site Plans\SP-2014-10 (1350 Eggert Rd.)\Blurb_061914_EK.doc

cc: Town Clerk
Commissioner of Building
Town Engineer
Fire Chiefs
Traffic/Safety
Highway Superintendent
ECDEP
ECHWY
Ellicott Development Company
Sean Hopkins, Esq.
Carmina Wood Morris, Architects & Eng., PC

Approved Plan: Carmina Wood Morris, PC
Received: 06/09/14

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

EXHIBIT 6

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

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Reasons Supporting This Determination

Based on information submitted by the applicant including an Environmental Assessment Form (EAF) - Part I and a complete site plan application, a preliminary staff analysis was undertaken. Compared to the criteria listed in Section 617.7, all indications are that this action will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Engineering Department on May 22, 2014 reviewed the Grading, Drainage and Utility Plans; Engineer's Report; and Erosion Control Plan submitted on May 12, 2014; along with the Geotechnical Report prepared by Empire GEO Services, Inc.

2. The project will not result in the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. The Planning Department reviewed a Landscape Plan submitted on May 12, 2014and determined that it meets or exceeds Zoning Ordinance requirements for greenspace. The Landscape Plan has or will have met all Zoning Ordinance and Town requirements for landscaping.

3. The project is not expected to create any material conflict with the Town Comprehensive Plan. The Building Department has reviewed the application documents, along with the Geotechnical Report submitted on May 12, 2014, and determined in their review of May 21, 2014 that the subject project has or will have met all Zoning Ordinance regulations prior to final site plan approval.

4. The project is not within an area identified by the State as potentially containing significant cultural or archeological resources, nor will it impair the character or quality of important historical resources. The Amherst Historic Preservation Commission voted to not pursue designation of the property as a local historic landmark at its meeting of June 10, 2014.

5. The project will not impair the character or quality of important aesthetic resources or of existing community or neighborhood character. The project is located in the OB-TNB-1 zoning district and is immediately north of the large Key Bank office parcel zoned OB-TNB-1. To the north and west of the subject parcel are single-family properties zoned R-3; however, the on-site circulation and appearance of the building from the rear are not proposed to substantially change from its previous use as a school. Across Eggert Road are the St. Benedict's Church parcel zoned CF-TNB-1 and single-family and two-family homes zoned R-4, therefore, the project is consistent with surrounding land use.

6. The proposed project will include construction of a 3-story addition and redevelopment of the site for apartments and offices, which will not cause a major change in the use of either the quantity or type of energy.

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

RCVD JUN26'14 PM 4:19

7. The project will not create any hazard to human health. The Fire Chief's Association on May 22, 2014, has reviewed the project and has no objection to the approval of the site plan, as all requirements of this agency has or will have been met.

8. The project will not cause a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses. The proposed enlarged and redeveloped building will be consistent with the scale of surrounding land uses.

9. The function of the proposed building expansion and redevelopment will increase the number of people using the site over its previous level of use; however, the site is located near the mixed-use Main-Eggert intersection, and all road and utility infrastructure are available, along with public transportation amenities.

10. Review by the Town Traffic/Safety Board dated June 13, 2014 indicates that significant negative traffic impacts are not expected to result from the proposed project.

11. A coordinated review of the project has been undertaken by Town Departments including, in addition to those mentioned above, Highway on May 28, 2014, Assessor on May 14, 2014, Plumbing Division on May 15, 2014, and Right-of-Way Agent on May 28, 2014. These reviews did not identify any potential significant adverse environmental issues and indicated that the proposal will not have a significant damaging impact on the environment.

12. Issues not specifically mentioned above and/or those not specifically reviewed were not raised by Town departments, outside agencies or the public and are not determined to cause significant negative environmental impacts.

Planning Board Approval June 19, 2014
Moved by: Mr. Gilmour; Seconded by: Mr. Simmons Ayes 6; Noes 0; Absent Herberger

Ellen McKast Assoc Planner — 6/26/14
signature & title of preparer — Date

[signature] — 6/26/14
Jonathan O'Rourke, Planning Board Chair — Date

EK/jb
X:\Current_Planning\Files\Major Site Plans\SP-2014-10 (1350 Eggert Rd.)\Blurb_061914_EK.doc

cc: Amherst Town Clerk
Amherst Building Department
ECDEP
ECHWY
Ellicott Development Company
Sean Hopkins, Esq.
Carmina Wood Morris, Architects & Eng., PC

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

CARMINA WOOD
DESIGN

ENGINEER'S REPORT

for

Amherst Youth Center
1350 Eggert Road
Town of Amherst, Erie County, New York

Prepared for

Ellicott Development

295 Main Street, Suite 700
Buffalo, NY 14203

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

Telephone: (716) 842-3165
Fax: (716) 842-0263

June 2025



Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Table of Contents

Written Engineer's Report

Section 1 - Location & Description
Section 2 - Water Service
Section 3 - Sanitary Sewer Service
Section 4 - Storm Sewer Service

Appendices

Appendix A Sanitary Sewer and Water Demand Calculations

Appendix B Storm Sewer System Drainage Calculations

- Existing Runoff
- Proposed Runoff

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Section 1 - Location & Description

This project is a development of a greenspace on a existing developed 3.3 acre site located 1350 Eggert Road in the Town of Amherst for a new youth community center building. Construction will consist of a 7,780 sf community building with associated site, utility and landscaping improvements. Currently the site consists of a school building that was converted to residential apartments years prior, the community center is proposed to be constructed in an open greenspace on the west side of the property. The proposed site development area to be disturbed for this project is approximately 0.45 acres when construction is completed.

Section 2 - Water Service

Water service for the community building will be tapped off the existing on site water service downstream of the backflow preventer and meter. The service to the building will be a 2" polyethylene domestic service.

Section 3 - Sanitary Sewer Service

Proposed is 135 lf of 6" SDR-35 PVC private sanitary sewer lateral, connected to the existing public sanitary sewer main along the south side of Crosby Blvd.

Design Parameters
Students: 10 gal/day/student x 190 students = 1,900 gpd

1,900 gpd * 4.38 = 8,328 gpd *use peaking factor of 4.38

The hydraulic loading rate is per "Design Standards for Intermediate Sized Wastewater Treatment Systems" 2014, NYSDEC, number of students is based on maximum capacity of the proposed building.

Section 4 - Storm Sewer Service

The existing site currently sheet drains northwest towards an existing drive lane and eventually down a steep slope or stairway to the public park and Crosby Blvd below.

Stormwater runoff collected onsite as a result of the proposed development will be routed through the proposed storm sewer system consisting of an underground detention basin connected by a series of catch basins and smooth interior HDPE pipe. The underground detention field was designed to consist of ADS StormTech SC-310 chambers to allow for stormwater to be temporarily stored and discharged at a controlled rate. The chamber system is surrounded by stone and wrapped in geotextile fabric. Note that StormTech is one type of "chamber" system and there are several other by different manufacturers that may be used pending approval by the design engineer. Site specific shop drawings will be required from the contractor for approval by the engineer prior to construction of the specific system selected. An 8" outlet control pipe will be provided downstream of the underground detention field underdrain pipe. Discharge from the outlet pipe will outlet to the existing storm sewer manhole on site which ultimately connects down the slope to Crosby Blvd.

Town of Amherst Requirement:
The Town of Amherst requires that the 25-year proposed storm event be attenuated with detention and that the outlet be restricted to the 10-year existing storm event. This volume of 2,239 cf is accommodated in the detention basin at elevation 635.03. At this elevation, the outlet discharge will be restricted to 2.21 cfs, which is less than the existing 10-year peak runoff outflow of 3.68 cfs.

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Detention: Comparison of the existing 10-year vs. the proposed 25-year runoff

RUNOFF SUMMARY

EVENT	EX. RUNOFF (cfs)	PRO. RUNOFF (cfs)	RESULT (cfs)
10-year	3.68	1.96	-1.72
25-year	4.78	2.21	-2.57

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Appendix A

Sanitary Sewer and Water Demand Calculations

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

CARMINA WOOD DESIGN
80 Silo City Row, Suite 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 25-4075 Date: 6/23/2025
Project Name: Amherst Youth Center
Project Address: 1350 Eggert Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 1

Sanitary Sewage Demand Calculations:

10 gal/d/stu x 190 stu = 1,900 gpd *use 10 gallons per student per day

Total Site Sanitary Demand: = 1,900 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 1,900 gpd / 100 gpcd = 19 per capita

Population (P) = 19 people

Peaking Factor : (18 +√P) / (4 + √P) where P is in thousands

Peaking Factor = 4.38

Peak Sanitary Demand = 1,900 x 4.38 = 8,328 gpd
= 0.008 MGD
= 0.013 cfs

Required Infiltration and Inflow Mitigation:

Peak Sanitary Flow = 8,328 gpd = 5.78 gpm

4:1 offset flow per NYSDEC requirements = 5.78 x 4 = 23.13 gpm req'd

Mitigation Credit = $250 / gpm

Mitigation Agreement Amount = $5,783.66

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

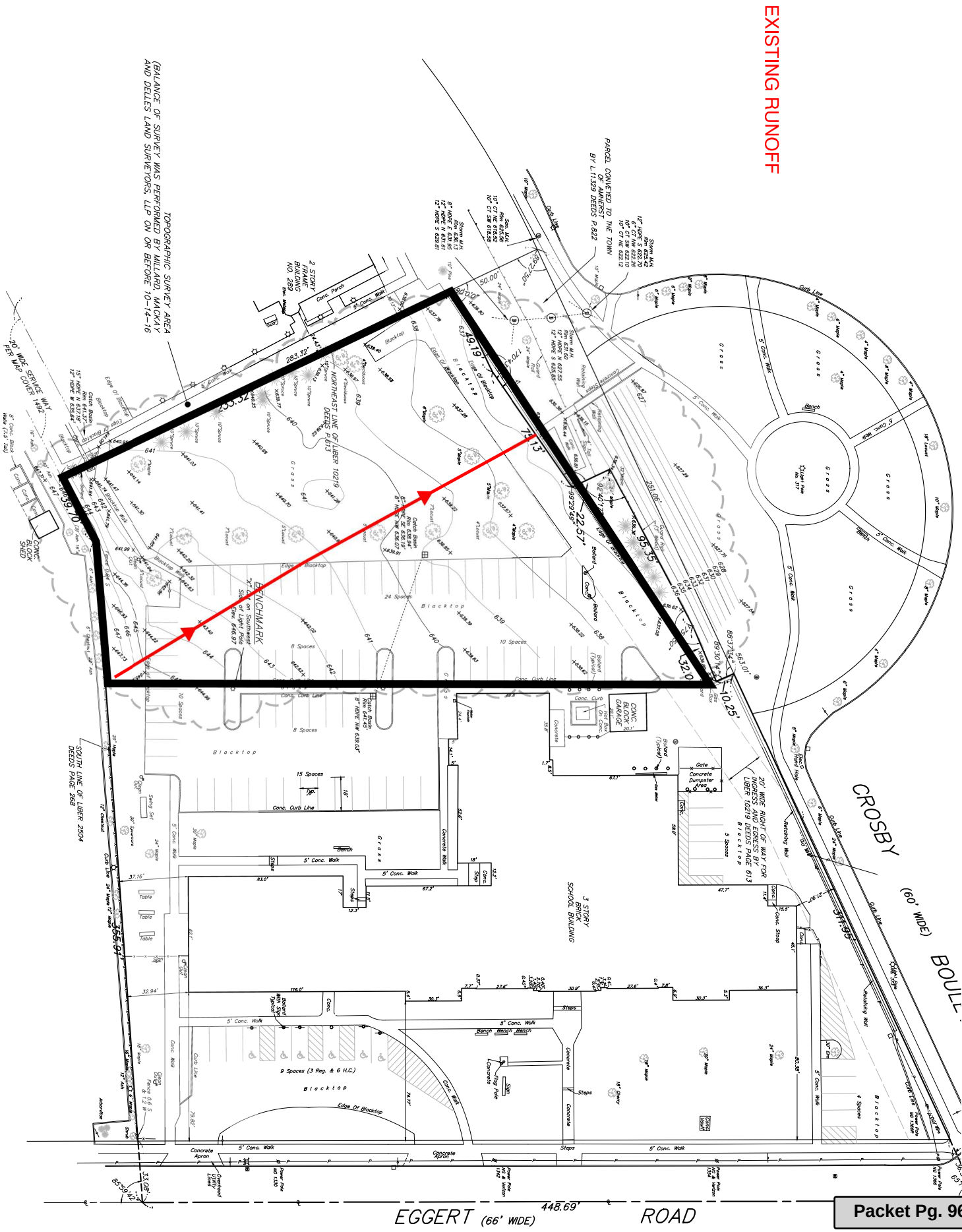
Appendix B

Storm Sewer System Drainage Calculations

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Existing Runoff

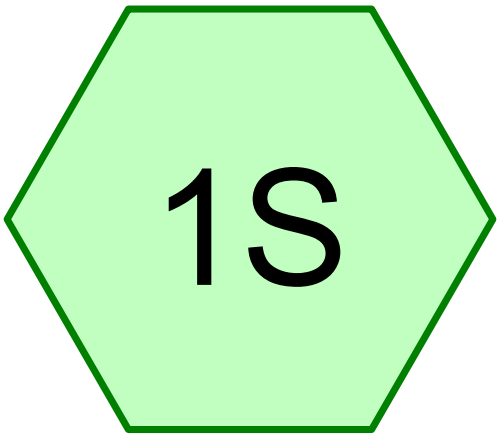
Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)


EXISTING RUNOFF
Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)
TOPOGRAPHIC SURVEY AREA (BALANCE OF SURVEY WAS PERFORMED BY MILLARD, MACKAY AND DELLES LAND SURVEYORS, LLP ON OR BEFORE 10-14-16
PARCEL CONVEYED TO THE TOWN OF AMHERST BY L.11329 DEEDS P.822
NORTHEAST LINE OF LIBER 10219 DEEDS P.613
SOUTH LINE OF LIBER 2504 DEEDS PAGE 268
20' WIDE RIGHT OF WAY FOR INGRESS AND EGRESS BY LIBER 10219 DEEDS PAGE 613
BENCHMARK
2 STORY FRAME BUILDING NO. 289
3 STORY SCHOOL BUILDING
CONC. BLOCK GARAGE
CONC. BLOCK SHED
CROSBY BOULEVARD (60' WIDE)
EGGERT ROAD (66' WIDE)
448.69'
Packet Pg. 966

Events for Subcatchment 1S: Existing

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.87	1.72	3,344	0.92
2-Year	2.20	2.22	4,341	1.20
5-Year	2.69	2.97	5,888	1.62
10-Year	3.14	3.68	7,357	2.03
25-Year	3.84	4.78	9,704	2.67
50-Year	4.48	5.78	11,893	3.28
100-Year	**5.23**	**6.95**	**14,493**	**3.99**

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)



Existing

Subcat Reach Pond Link

Routing Diagram for 25-4075 existing
Prepared by Carmina Wood Morris, PC, Printed 6/19/2025
HydroCAD® 10.20-2h s/n 05019 © 2024 HydroCAD Software Solutions LLC

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
2	25-Year	Type II 24-hr		Default	24.00	1	3.84	2

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
21,780	80	>75% Grass cover, Good, HSG D (1S)
21,780	98	Paved parking, HSG D (1S)
43,560	**89**	**TOTAL AREA**

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
43,560	HSG D	1S
0	Other	
43,560		**TOTAL AREA**

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	21,780	0	21,780	>75% Grass cover, Good	
0	0	0	21,780	0	21,780	Paved parking	
0	**0**	**0**	**43,560**	**0**	**43,560**	**TOTAL AREA**	

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Existing Runoff Area=1.000 ac 50.00% Impervious Runoff Depth=2.03"
Flow Length=240' Tc=4.8 min CN=89 Runoff=3.68 cfs 7,357 cf

Total Runoff Area = 43,560 sf Runoff Volume = 7,357 cf Average Runoff Depth = 2.03"
50.00% Pervious = 21,780 sf 50.00% Impervious = 21,780 sf

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Summary for Subcatchment 1S: Existing

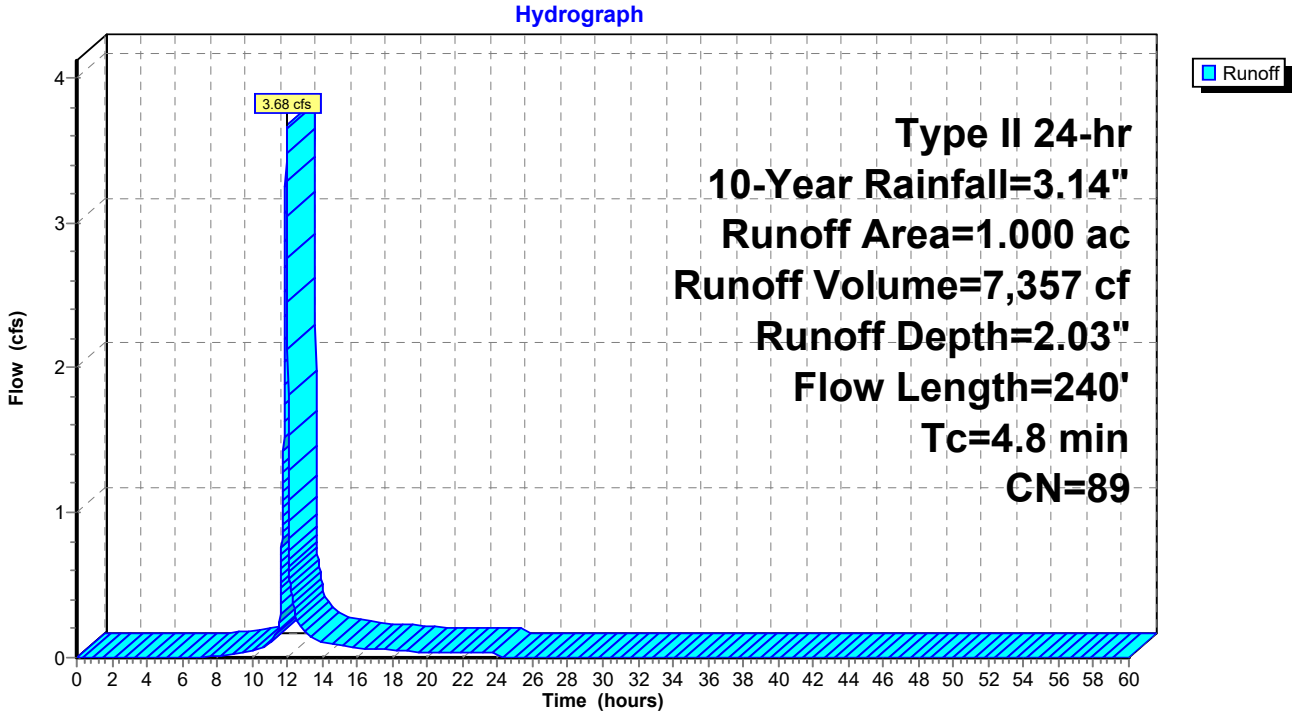
Runoff = 3.68 cfs @ 11.96 hrs, Volume= 7,357 cf, Depth= 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.500	98	Paved parking, HSG D
0.500	80	>75% Grass cover, Good, HSG D
1.000	89	Weighted Average
0.500		50.00% Pervious Area
0.500		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	110	0.0036	0.62		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
1.8	110	0.0220	1.04		**Shallow Concentrated Flow, grass** Short Grass Pasture Kv= 7.0 fps
0.1	20	0.0200	2.87		**Shallow Concentrated Flow, pavement** Paved Kv= 20.3 fps
4.8	240	Total			

Subcatchment 1S: Existing



Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Existing Runoff Area=1.000 ac 50.00% Impervious Runoff Depth=2.67"
Flow Length=240' Tc=4.8 min CN=89 Runoff=4.78 cfs 9,704 cf

Total Runoff Area = 43,560 sf Runoff Volume = 9,704 cf Average Runoff Depth = 2.67"
50.00% Pervious = 21,780 sf 50.00% Impervious = 21,780 sf

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Summary for Subcatchment 1S: Existing

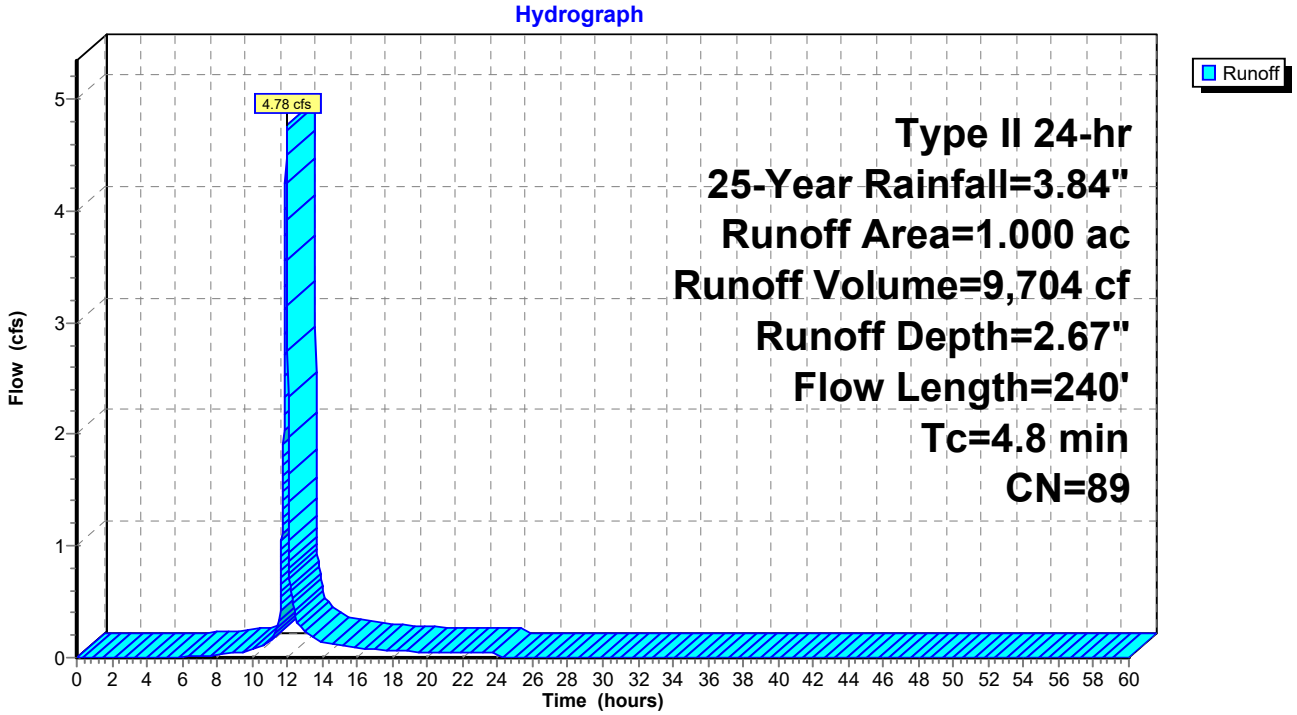
Runoff = 4.78 cfs @ 11.96 hrs, Volume= 9,704 cf, Depth= 2.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.500	98	Paved parking, HSG D
0.500	80	>75% Grass cover, Good, HSG D
1.000	89	Weighted Average
0.500		50.00% Pervious Area
0.500		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	110	0.0036	0.62		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
1.8	110	0.0220	1.04		**Shallow Concentrated Flow, grass** Short Grass Pasture Kv= 7.0 fps
0.1	20	0.0200	2.87		**Shallow Concentrated Flow, pavement** Paved Kv= 20.3 fps
4.8	240	Total			

Subcatchment 1S: Existing



Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Proposed Runoff

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

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PROPOSED
RUNOFF

318 CROSBY BLVD

289 CROSBY BLVD

3920 MAIN STREET

PROPOSED BUILDING
7,780 GSF
F.F.E. 641.50

CB 1
RIM 641.00

CB 2
RIM 639.80

CB 3
RIM 637.5±

CB 4
RIM
636.40

CB 5
RIM
636.40

CB 6
RIM
636.40

CB 7
RIM
636.90

RAMP @
6.4%

RAMP @ 8.2%

3 STORY
BRICK
SCHOOL BUILDING

CONC.
BLOCK
GARAGE

2 STORY
FRAME
BUILDING
NO. 289

BENCHMARK
"X" Cut on Southwest
Side of Light Pole
Elev. 646.97

Storm M.H.
Rim 625.42
12" HDPE S 622.70
6" CT NW 622.26
10" CT SW 622.10
10" CT NE 622.12

Storm M.H.
Rim 631.60
12" HDPE N 627.55
12" HDPE S 625.85

San. M.H.
Rim 625.56
10" CT NE 618.52
10" CT SW 618.58

Storm M.H.
Rim 636.13
8" HDPE E 631.95
12" HDPE N 631.61
12" HDPE S 629.81

Catch Basin
Rim 641.37'
15" HDPE N 637.18'
12" HDPE W 635.64'

Catch Basin
Rim 641.45'
8" HDPE NW 639.03'

TC 637.7±
BC 637.2±
MATCH EX.

TC 637.70
BC 637.20

TC 637.20
BC 636.70

TC 638.0±
BC 637.5±
MATCH EX.

638.5±
MATCH EX.

TW 641.50
BW 637.00

TW/BW 641.50

TC 639.5±
BC 639.0±
MATCH EX.

639.8±
MATCH EX.

TC 640.3±
BC 639.8±
MATCH EX.

TC 640.9±
BC 640.4±
MATCH EX.

641.0±
MATCH EX.

TC 641.5±
BC 641.0±
MATCH EX.

642.3±
MATCH EX.

637.2±
MATCH EX.

637.70
MATCH EX.

636.7±
FLUSH

636.90

636.75

638.90

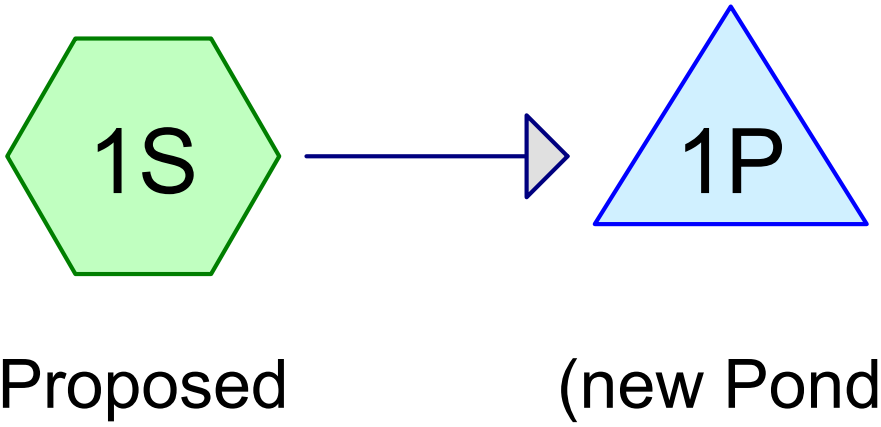
641.40

641.50

Events for Pond 1P: (new Pond)

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	2.28	1.42	633.88	467
2-Year	2.82	1.55	634.02	714
5-Year	3.62	1.76	634.26	1,133
10-Year	4.36	1.96	634.52	1,548
25-Year	5.50	2.21	635.03	2,239
50-Year	6.53	3.96	640.37	**2,857**
100-Year	**7.73**	**8.23**	**664.41**	2,857

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)



Subcat Reach Pond Link

Routing Diagram for 25-4075 proposed
Prepared by Carmina Wood Morris, PC, Printed 6/19/2025
HydroCAD® 10.20-2h s/n 05019 © 2024 HydroCAD Software Solutions LLC

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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
2	25-Year	Type II 24-hr		Default	24.00	1	3.84	2

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
13,068	80	>75% Grass cover, Good, HSG D (1S)
30,492	98	Paved parking, HSG D (1S)
43,560	**93**	**TOTAL AREA**

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
43,560	HSG D	1S
0	Other	
43,560		**TOTAL AREA**

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	13,068	0	13,068	>75% Grass cover, Good	
0	0	0	30,492	0	30,492	Paved parking	
0	**0**	**0**	**43,560**	**0**	**43,560**	**TOTAL AREA**	

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	1S	0.00	0.00	134.0	0.0200	0.013	0.0	12.0	0.0
2	1P	632.83	631.95	44.0	0.0200	0.013	0.0	8.0	0.0

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Proposed Runoff Area=1.000 ac 70.00% Impervious Runoff Depth=2.39"
Flow Length=254' Tc=3.4 min CN=93 Runoff=4.36 cfs 8,669 cf

Pond 1P: (new Pond) Peak Elev=634.52' Storage=1,548 cf Inflow=4.36 cfs 8,669 cf
8.0" Round Culvert n=0.013 L=44.0' S=0.0200 '/' Outflow=1.96 cfs 8,669 cf

Total Runoff Area = 43,560 sf Runoff Volume = 8,669 cf Average Runoff Depth = 2.39"
30.00% Pervious = 13,068 sf 70.00% Impervious = 30,492 sf

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Summary for Subcatchment 1S: Proposed

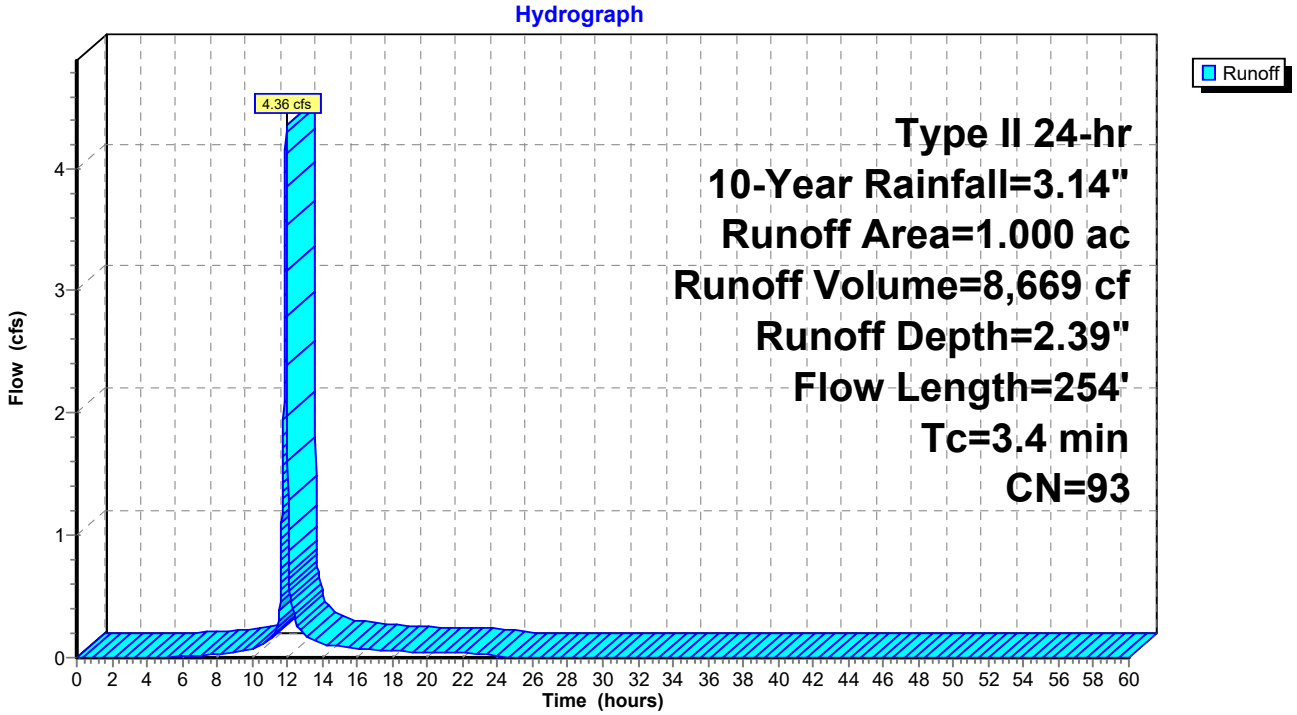
Runoff = 4.36 cfs @ 11.94 hrs, Volume= 8,669 cf, Depth= 2.39"
Routed to Pond 1P : (new Pond)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.700	98	Paved parking, HSG D
0.300	80	>75% Grass cover, Good, HSG D
1.000	93	Weighted Average
0.300		30.00% Pervious Area
0.700		70.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	120	0.0036	0.64		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
0.3	134	0.0200	6.42	5.04	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.4	254	Total			

Subcatchment 1S: Proposed



Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Summary for Pond 1P: (new Pond)

[44] Hint: Outlet device #1 is below defined storage

Inflow Area = 43,560 sf, 70.00% Impervious, Inflow Depth = 2.39" for 10-Year event
Inflow = 4.36 cfs @ 11.94 hrs, Volume= 8,669 cf
Outflow = 1.96 cfs @ 12.02 hrs, Volume= 8,669 cf, Atten= 55%, Lag= 4.9 min
Primary = 1.96 cfs @ 12.02 hrs, Volume= 8,669 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 634.52' @ 12.02 hrs Surf.Area= 2,265 sf Storage= 1,548 cf

Plug-Flow detention time= 3.9 min calculated for 8,668 cf (100% of inflow)
Center-of-Mass det. time= 3.9 min (791.7 - 787.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	633.37'	1,619 cf	**14.83'W x 152.72'L x 2.33'H Field A** 5,286 cf Overall - 1,238 cf Embedded = 4,047 cf x 40.0% Voids
#2A	633.87'	1,238 cf	**ADS_StormTech RC-310 +Cap** x 84 Inside #1 Effective Size= 28.9"W x 16.0"H => 2.07 sf x 7.12'L = 14.7 cf Overall Size= 34.0"W x 16.0"H x 7.56'L with 0.44' Overlap 84 Chambers in 4 Rows
		2,857 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	632.83'	**8.0" Round Culvert** L= 44.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 632.83' / 631.95' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.96 cfs @ 12.02 hrs HW=634.52' (Free Discharge)
1=Culvert (Inlet Controls 1.96 cfs @ 5.61 fps)

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Pond 1P: (new Pond) - Chamber Wizard Field A

Chamber Model = ADS_StormTechRC-310 +Cap (ADS StormTech®RC-310 with cap length)
Effective Size= 28.9"W x 16.0"H => 2.07 sf x 7.12'L = 14.7 cf
Overall Size= 34.0"W x 16.0"H x 7.56'L with 0.44' Overlap

34.0" Wide + 6.0" Spacing = 40.0" C-C Row Spacing

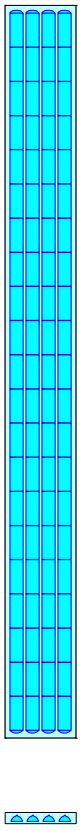
21 Chambers/Row x 7.12' Long +0.60' Cap Length x 2 = 150.72' Row Length +12.0" End Stone x 2 = 152.72' Base Length
4 Rows x 34.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 14.83' Base Width
6.0" Stone Base + 16.0" Chamber Height + 6.0" Stone Cover = 2.33' Field Height

84 Chambers x 14.7 cf = 1,238.3 cf Chamber Storage

5,285.8 cf Field - 1,238.3 cf Chambers = 4,047.5 cf Stone x 40.0% Voids = 1,619.0 cf Stone Storage

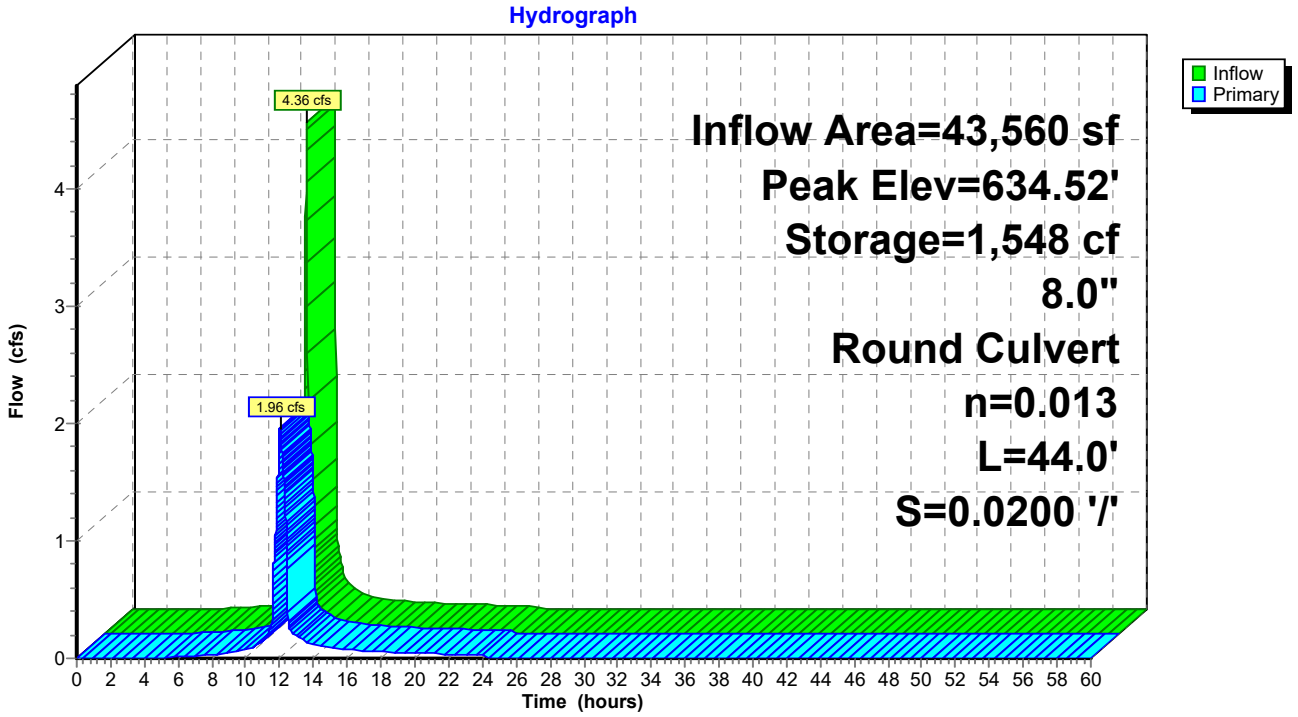
Chamber Storage + Stone Storage = 2,857.3 cf = 0.066 af
Overall Storage Efficiency = 54.1%
Overall System Size = 152.72' x 14.83' x 2.33'

84 Chambers
195.8 cy Field
149.9 cy Stone



Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Pond 1P: (new Pond)



Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Proposed Runoff Area=1.000 ac 70.00% Impervious Runoff Depth=3.06"
Flow Length=254' Tc=3.4 min CN=93 Runoff=5.50 cfs 11,123 cf

Pond 1P: (new Pond) Peak Elev=635.03' Storage=2,239 cf Inflow=5.50 cfs 11,123 cf
8.0" Round Culvert n=0.013 L=44.0' S=0.0200 '/' Outflow=2.21 cfs 11,123 cf

Total Runoff Area = 43,560 sf Runoff Volume = 11,123 cf Average Runoff Depth = 3.06"
30.00% Pervious = 13,068 sf 70.00% Impervious = 30,492 sf

Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Summary for Subcatchment 1S: Proposed

[47] Hint: Peak is 109% of capacity of segment #2

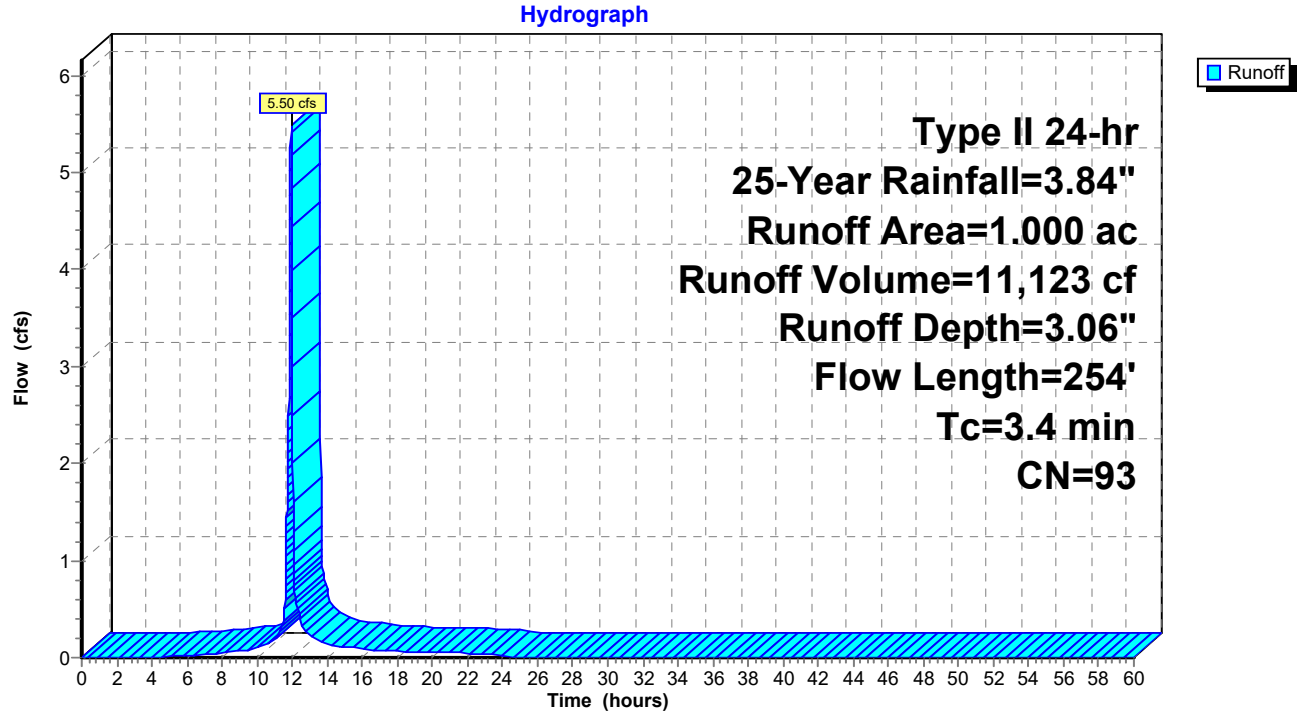
Runoff = 5.50 cfs @ 11.94 hrs, Volume= 11,123 cf, Depth= 3.06"
Routed to Pond 1P : (new Pond)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.700	98	Paved parking, HSG D
0.300	80	>75% Grass cover, Good, HSG D
1.000	93	Weighted Average
0.300		30.00% Pervious Area
0.700		70.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	120	0.0036	0.64		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
0.3	134	0.0200	6.42	5.04	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.4	254	Total			

Subcatchment 1S: Proposed



Attachment: SP-2014-10_C_application_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Summary for Pond 1P: (new Pond)

[44] Hint: Outlet device #1 is below defined storage

Inflow Area = 43,560 sf, 70.00% Impervious, Inflow Depth = 3.06" for 25-Year event
Inflow = 5.50 cfs @ 11.94 hrs, Volume= 11,123 cf
Outflow = 2.21 cfs @ 12.03 hrs, Volume= 11,123 cf, Atten= 60%, Lag= 5.2 min
Primary = 2.21 cfs @ 12.03 hrs, Volume= 11,123 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 635.03' @ 12.03 hrs Surf.Area= 2,265 sf Storage= 2,239 cf

Plug-Flow detention time= 5.2 min calculated for 11,122 cf (100% of inflow)
Center-of-Mass det. time= 5.2 min (786.1 - 780.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	633.37'	1,619 cf	**14.83'W x 152.72'L x 2.33'H Field A** 5,286 cf Overall - 1,238 cf Embedded = 4,047 cf x 40.0% Voids
#2A	633.87'	1,238 cf	**ADS_StormTech RC-310 +Cap** x 84 Inside #1 Effective Size= 28.9"W x 16.0"H => 2.07 sf x 7.12'L = 14.7 cf Overall Size= 34.0"W x 16.0"H x 7.56'L with 0.44' Overlap 84 Chambers in 4 Rows
		2,857 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	632.83'	**8.0" Round Culvert** L= 44.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 632.83' / 631.95' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=2.21 cfs @ 12.03 hrs HW=635.03' (Free Discharge)
└**1=Culvert** (Barrel Controls 2.21 cfs @ 6.34 fps)

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Pond 1P: (new Pond) - Chamber Wizard Field A

Chamber Model = ADS_StormTechRC-310 +Cap (ADS StormTech®RC-310 with cap length)
Effective Size= 28.9"W x 16.0"H => 2.07 sf x 7.12'L = 14.7 cf
Overall Size= 34.0"W x 16.0"H x 7.56'L with 0.44' Overlap

34.0" Wide + 6.0" Spacing = 40.0" C-C Row Spacing

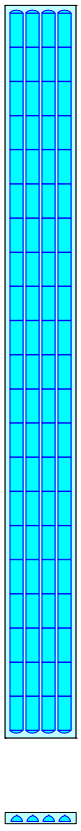
21 Chambers/Row x 7.12' Long +0.60' Cap Length x 2 = 150.72' Row Length +12.0" End Stone x 2 = 152.72' Base Length
4 Rows x 34.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 14.83' Base Width
6.0" Stone Base + 16.0" Chamber Height + 6.0" Stone Cover = 2.33' Field Height

84 Chambers x 14.7 cf = 1,238.3 cf Chamber Storage

5,285.8 cf Field - 1,238.3 cf Chambers = 4,047.5 cf Stone x 40.0% Voids = 1,619.0 cf Stone Storage

Chamber Storage + Stone Storage = 2,857.3 cf = 0.066 af
Overall Storage Efficiency = 54.1%
Overall System Size = 152.72' x 14.83' x 2.33'

84 Chambers
195.8 cy Field
149.9 cy Stone



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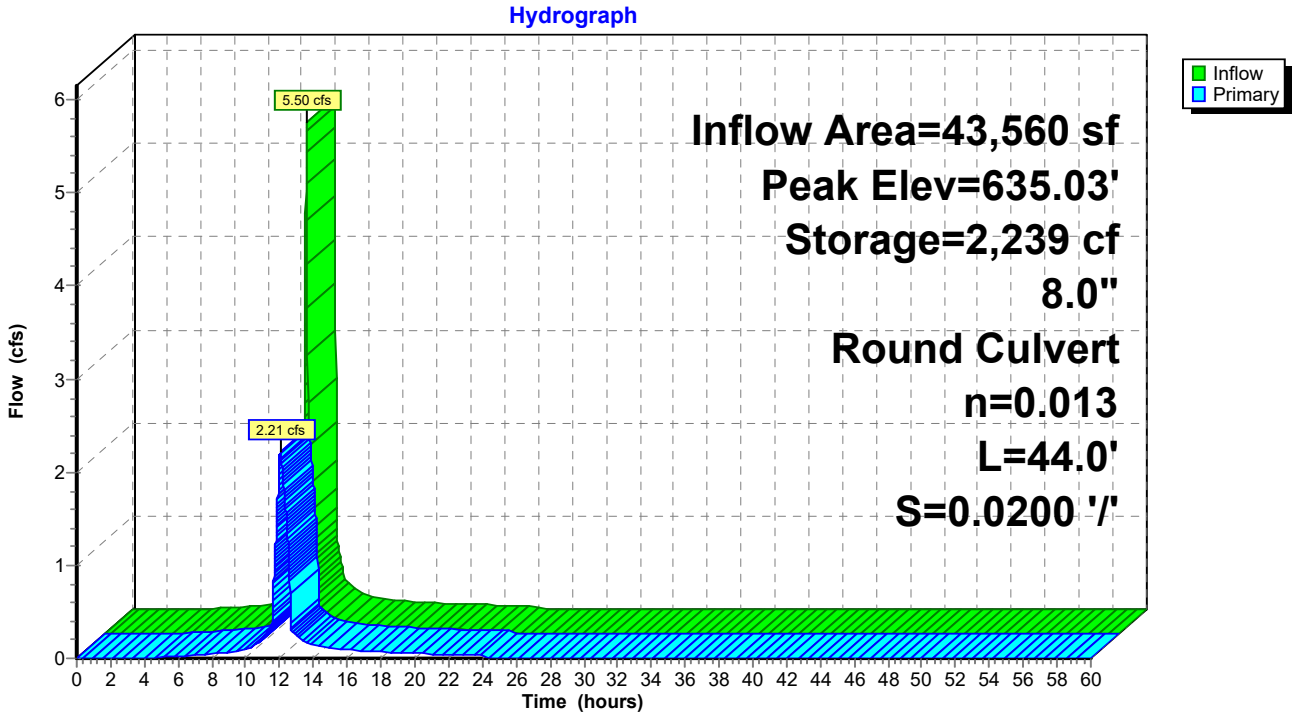
Pond 1P: (new Pond)



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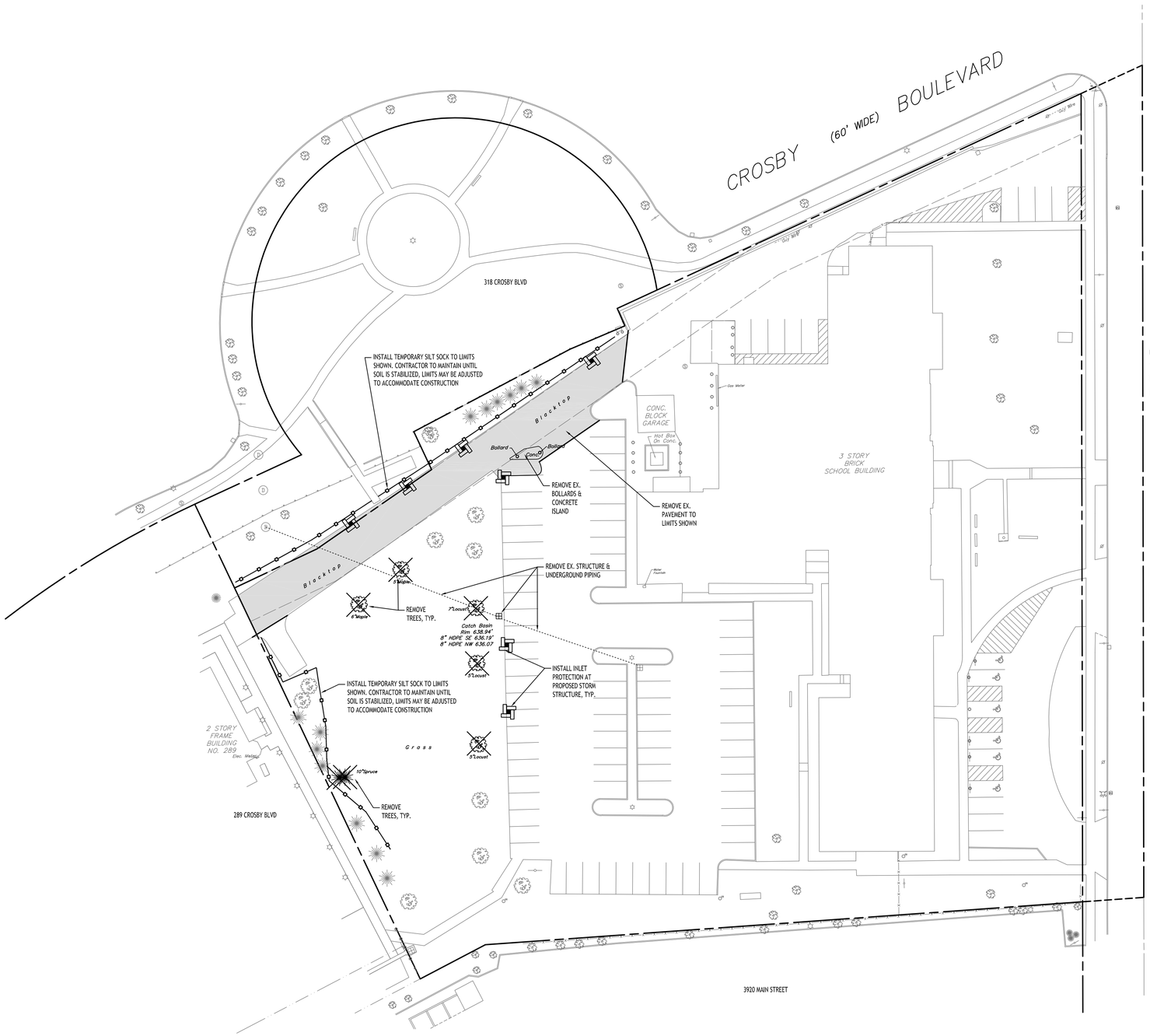

Demolition & Erosion Control Plan

SCALE: 1"=30'

DEMOLITION & EROSION CONTROL LEGEND

- EXISTING PAVEMENT TO BE SAWCUT & REMOVED
- PROPOSED SILT SOCK
- EXISTING TREE TO BE REMOVED
- PROPOSED STORM INLET PROTECTION

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

DEMOLITION NOTES:

1. ALL PERIMETER SILT SOCK TO BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITY BEGINNING.
2. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES AND CATCH BASINS.
3. TEMPORARY SILT SOCK TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
4. AS NECESSARY, COVERED DUMPSTERS SHALL BE PROVIDED ONSITE AS REQUIRED FOR CONSTRUCTION WASTE.
5. REMOVE ALL TREES AND STUMPS AS SHOWN AND DISPOSE OF OFF SITE. CONTRACTOR TO PROTECT ALL TREES/BRUSH NOT DISTURBED BY CONSTRUCTION ACTIVITY. LOCATIONS OF TREES SHOWN ON PLAN ARE APPROXIMATE, CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION.

EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY SILT SOCK BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT SOCK BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE OF TOPSOIL MUST BE FOLLOWED. TOPSOIL MAY NOT BE REMOVED WITHOUT A PERMIT.
3. ALL SILT SOCK BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND SPREAD WATER AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN/CITY.
9. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
10. INSTALL TEMPORARY SILT SOCK AROUND THE BASE OF STOCKPILES. STOCKPILES NOT BEING ACTIVELY USED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Amherst Youth Center

1350 Eggert Road
Amherst, NY

REVISIONS:

No.	Description	Date

Attachment: SP-2014-10_C_drawings_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

STATE OF NEW YORK
R. CHRISTOPHER WOOD
078394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Demolition & Erosion Control Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-001

Project No: 25-4075

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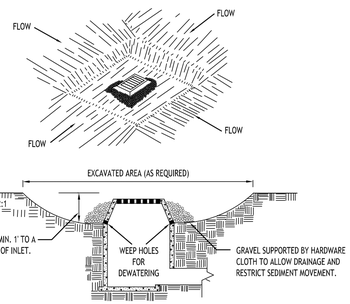


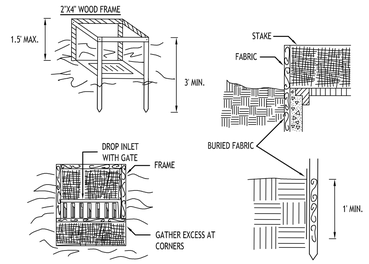
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

   MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



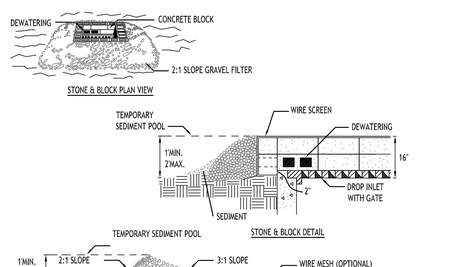
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

   MAXIMUN DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

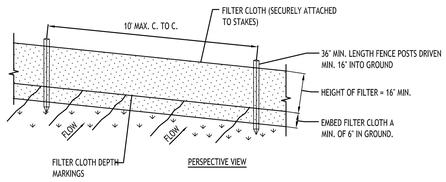
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

   MAXIMUM DRAINAGE AREA 1 ACRE

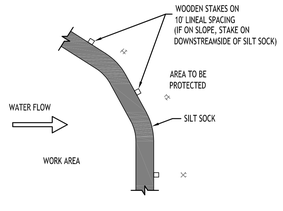
INLET PROTECTION DETAIL 3

NOT TO SCALE

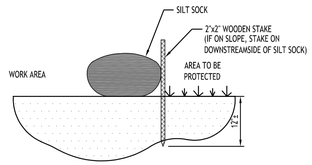
NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION



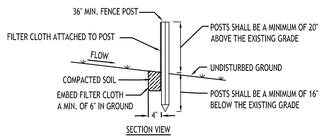
PERSPECTIVE VIEW



PLAN VIEW



SECTION VIEW



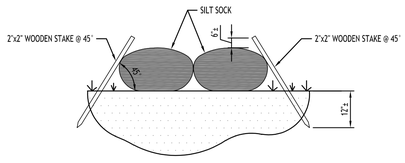
SECTION VIEW

CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE



SECTION VIEW @ JOINT OVERLAP

NOTES:

CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

SILT SOCK DETAIL

NOT TO SCALE

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Amherst Youth Center

1350 Eggert Road
Amherst, NY

REVISIONS:

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Attachment: SP-2014-10_C_drawings_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Demolition & Erosion Control Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-002

Project No: 25-4075

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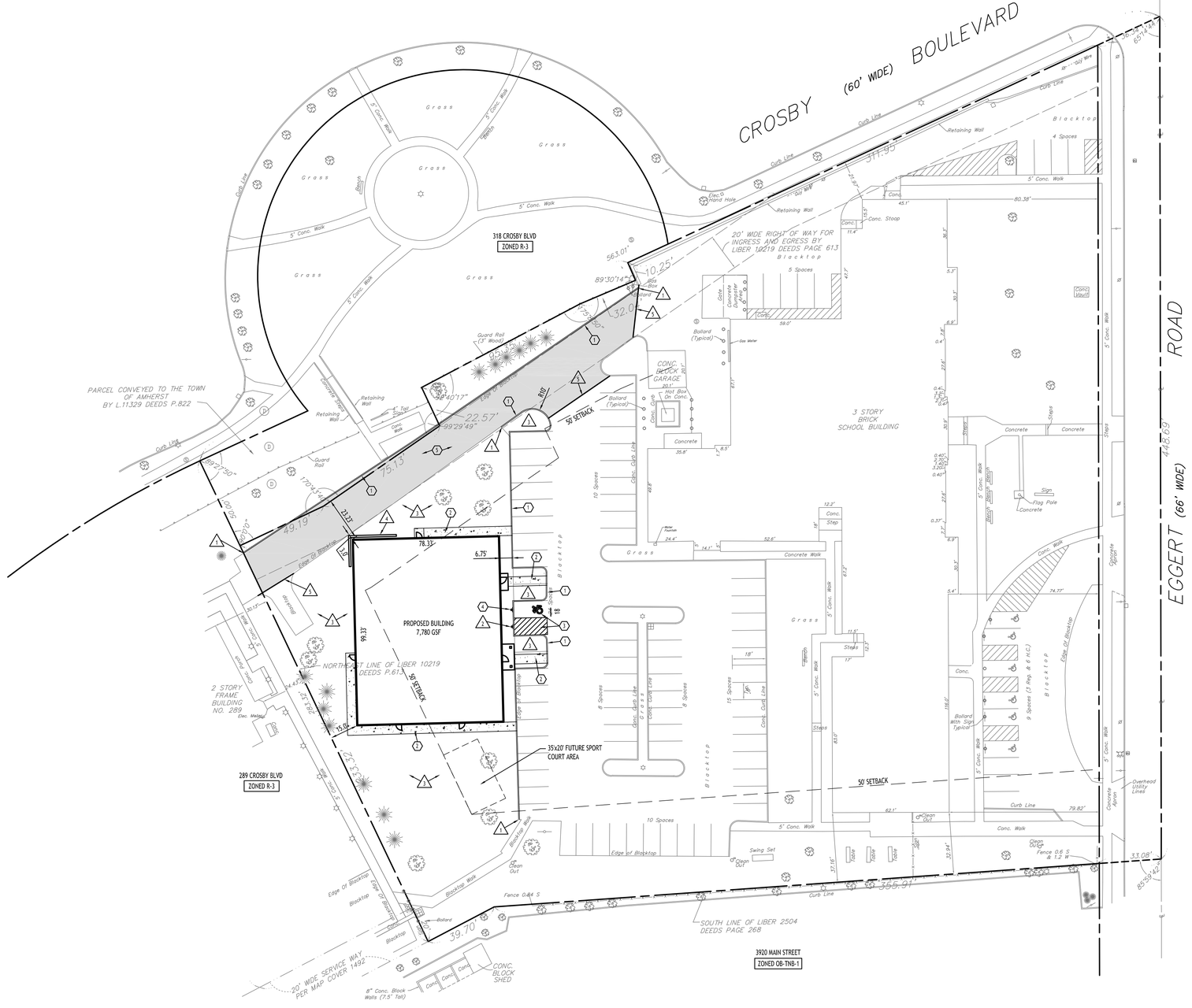
CROSBY (60' WIDE) BOULEVARD
EGGERT (66' WIDE) ROAD
318 CROSBY BLVD
ZONED R-3
289 CROSBY BLVD
ZONED R-3
3920 MAIN STREET
ZONED OB-TNB-1
PROPOSED BUILDING
7,780 GSF
3 STORY
BRICK
SCHOOL BUILDING
CONC. BLOCK GARAGE
2 STORY
FRAME
BUILDING
NO. 289
CONC.
BLOCK
SHED
35'x20' FUTURE SPORT
COURT AREA
PARCEL CONVEYED TO THE TOWN
OF AMHERST
BY L.11329 DEEDS P.822
20' WIDE RIGHT OF WAY FOR
INGRESS AND EGRESS BY
LIBER 10219 DEEDS PAGE 613
NORTHEAST LINE OF LIBER 10219
DEEDS P.613
SOUTH LINE OF LIBER 2504
DEEDS PAGE 268
20' WIDE SERVICE WAY
PER MAP COVER 1492
50' SETBACK
30' SETBACK
Curb Line
Edge of Blacktop
Blacktop
Concrete
Concrete Walk
5' Conc. Walk
Grass
Retaining Wall
Guard Rail (3' Wood)
Ballard (Typical)
Gas Meter
Elec. Hand Hole
Conc. Stoop
Flag Pole
Sign
Swing Set
Fence 0.6' S & 1.2' W
Fence 0.44' S
Overhead Utility Lines
Clean Out
Hot Box On Conc.
Gate Operator Control
Water Fountain
Steps
Ramp
Conc. Step
Conc. Vault
Concrete Apron
Edge of Blacktop
Blacktop Walk
Conc. Curb Line
Conc. Gutter Line
Conc. Drip Line
Conc. Slab
Conc. Block Walls (7.5' Tall)
Asphalt Walk
Concrete Walk
Concrete Steps
Concrete Ramp
Retaining Wall
Guard Rail
Curb Line
Edge of Blacktop
Blacktop
Grass
Conc.
Steps
Ramp
Concrete
Concrete Steps
Concrete Ramp
Concrete Apron
Concrete Walk
Blacktop Walk
Edge of Blacktop
Edge of Blacktop
Blacktop
Blacktop

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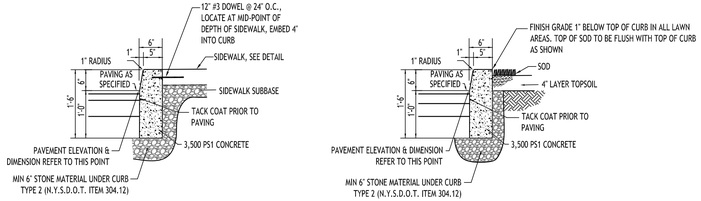


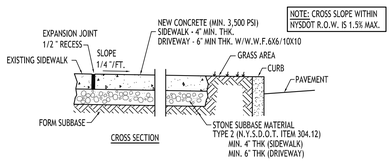
ABUTTING SIDEWALK

ABUTTING LANDSCAPE/GRASS

NOTES:
1. CONTROL JOINTS TO BE 2" DEEP AT 15'-0" O.C. - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. WHERE THE CURB DROPS (IS FLUSH WITH ASPHALT) THE DEPTH OF CURB BELOW GRADE SHALL BE INCREASED TO 1'-6" AND OTHER DIMENSIONS ADJUSTED ACCORDINGLY.

TYPE "A" CONCRETE CURB - 1

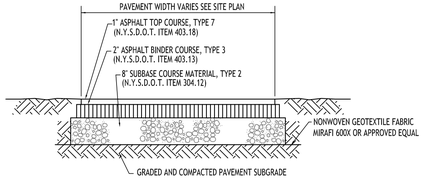
NOT TO SCALE



NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTH WAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3.
3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE, PROVIDE CONTINUOUS STONE PATH TO CURB UNDERDRAIN WHERE PROVIDED.
4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB.
6. INSTALL 6" LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN ENTRANCE, THICKEN SIDEWALK TO 6" AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6" DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE.
7. INSTALL 1/2" PREMOLDED EXPANSION JOINT WITH BACKER ROD & SEALANT WHERE SIDEWALK ABUTS BUILDING OR OTHER STRUCTURE.

CONCRETE SIDEWALK - 2

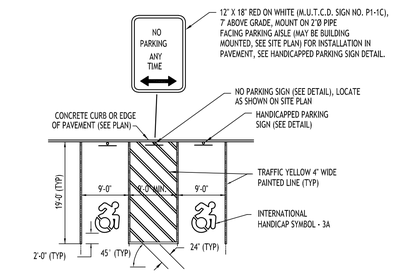
NOT TO SCALE



NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

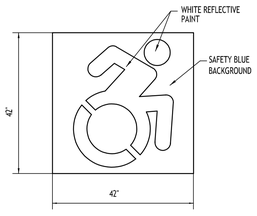
STANDARD DUTY ASPHALT SECTION - 5

NOT TO SCALE



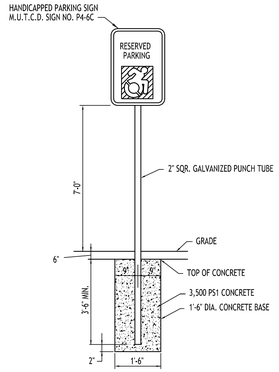
HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 3

NOT TO SCALE



INTERNATIONAL HANDICAP SYMBOL - 3A

NOT TO SCALE



NOTES:
1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

GRASS/LAWN AREA

HANDICAPPED PARKING SIGN - 4

NOT TO SCALE

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Amherst Youth Center

1350 Eggert Road
Amherst, NY

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STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Site Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-101

Project No: 25-4075

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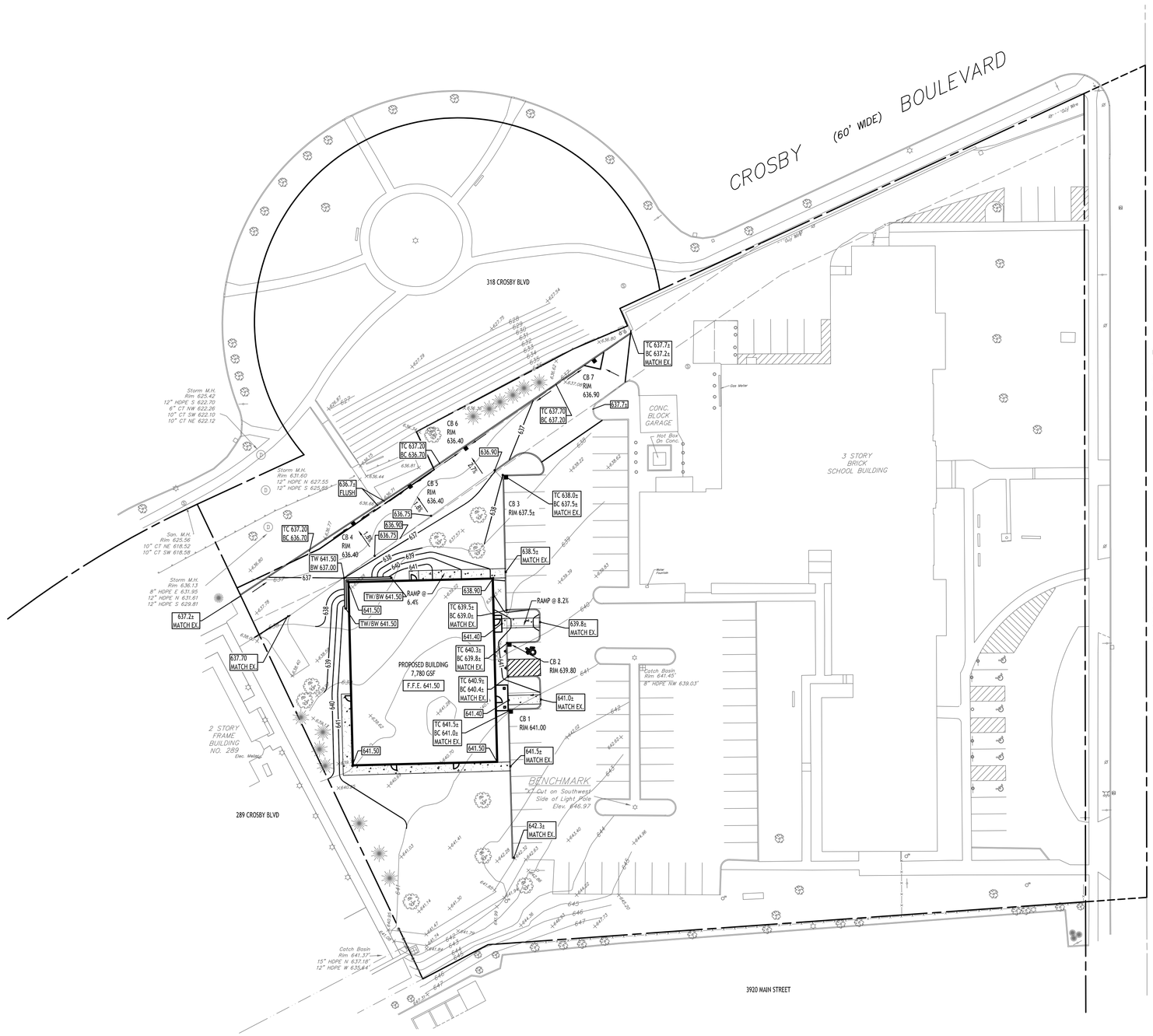

Grading Plan

SCALE: 1"=30'

PROPOSED GRADING LEGEND

PROPOSED CONTOUR	101
PROPOSED SPOT ELEVATION	100.00
PROPOSED TOP/BOTTOM OF CURB	TC 100.50 BC 100.00
PROPOSED CATCH BASIN	CB

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

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Amherst Youth Center

1350 Eggert Road
Amherst, NY

REVISIONS:

No.	Description	Date

STATE OF NEW YORK R. CHRISTOPHER WOOD 076394 LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Grading Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-200

Project No: 25-4075

Attachment: SP-2014-10_C_drawings_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

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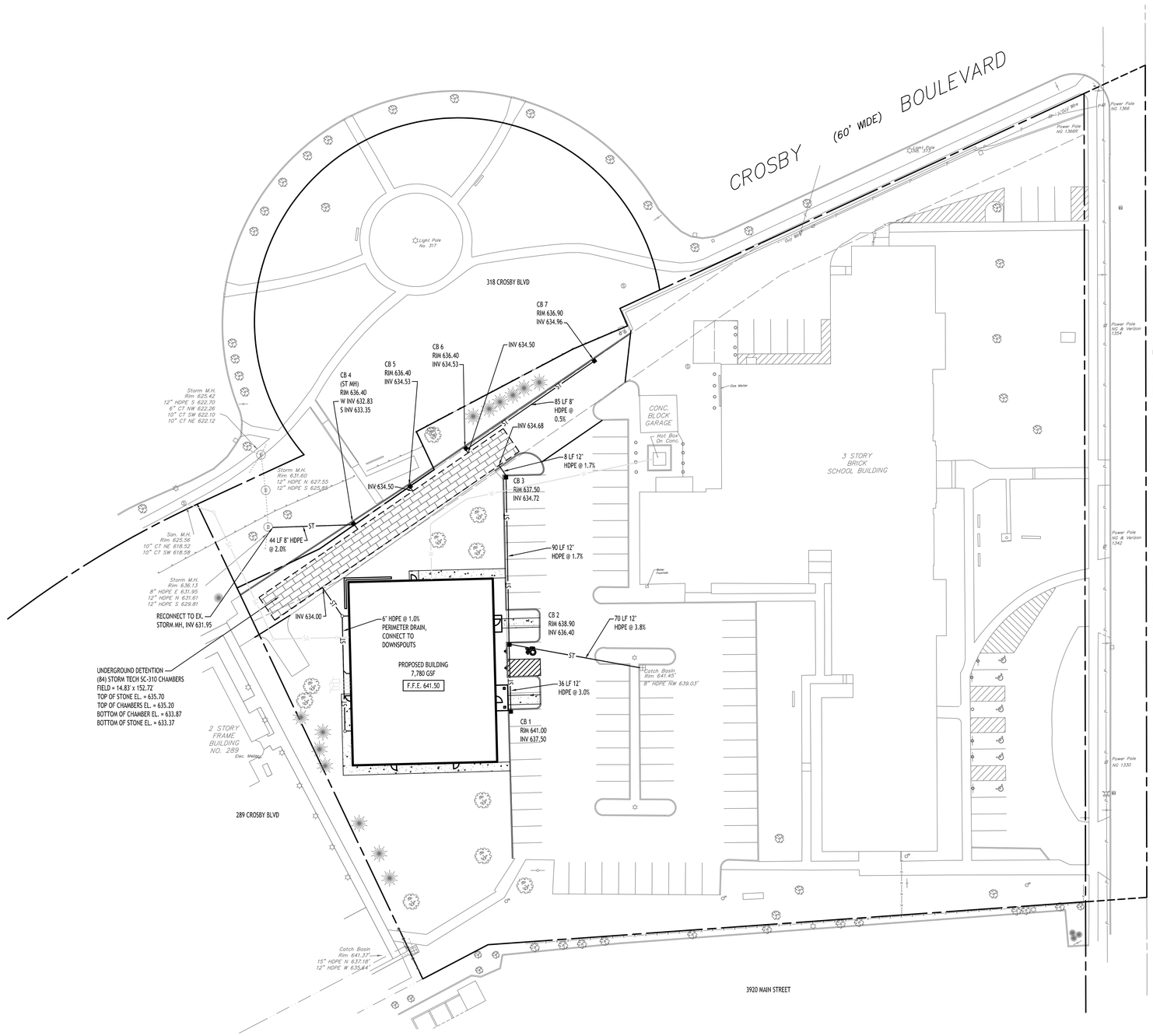

PRE DEVELOPMENT STORMWATER EVENT SUMMARIES			
Event	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
10-Year	3.68	7,357	2.03
25-Year	4.78	9,704	2.67

POST DEVELOPMENT STORMWATER EVENT SUMMARIES			
Event	Runoff (cfs)	Volume (cubic-feet)	Elevation (ft)
10-Year	1.96	1,548	634.52
25-Year	2.21	2,239	635.03

N

Storm Drainage Plan

SCALE: 1"=30'

PROPOSED STORM DRAINAGE LEGEND

PROPOSED STORM PIPE — ST —

PROPOSED PERFORATED STORM PIPE ■

PROPOSED CLEANOUT ○

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

3.b

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Amherst Youth Center

1350 Eggert Road
Amherst, NY

REVISIONS:

No.	Description	Date

Attachment: SP-2014-10_C_drawings. 082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

STATE OF NEW YORK — M. CHRISTOPHER WOOD — 076394 — LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Storm Drainage Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-300

Project No: 25-4075

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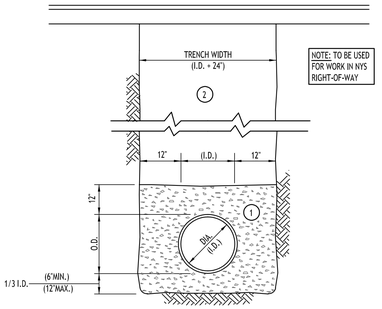


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

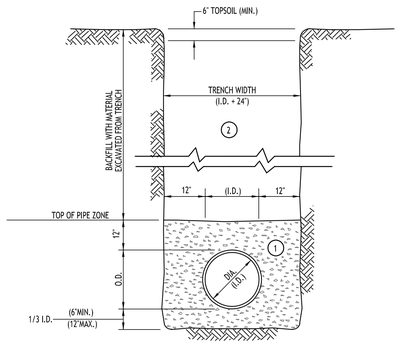
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

STORM SEWER TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

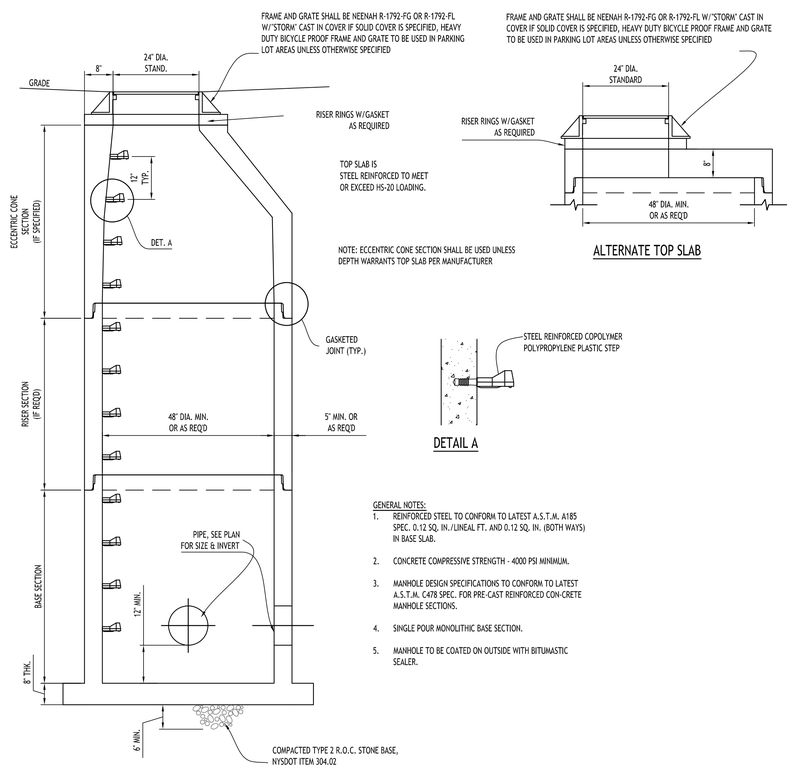
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

STORM SEWER TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE

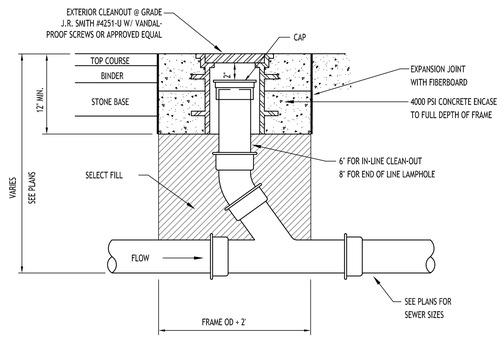


GENERAL NOTES:

1. REINFORCED STEEL TO CONFORM TO LATEST A.S.T.M. A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) IN BASE SLAB.
2. CONCRETE COMPRESSIVE STRENGTH - 4000 PSI MINIMUM.
3. MANHOLE DESIGN SPECIFICATIONS TO CONFORM TO LATEST A.S.T.M. C478 SPEC. FOR PRE-CAST REINFORCED CON-CRETE MANHOLE SECTIONS.
4. SINGLE POUR MONOLITHIC BASE SECTION.
5. MANHOLE TO BE COATED ON OUTSIDE WITH BITUMASTIC SEALER.

TYPICAL STORM MANHOLE DETAIL

NOT TO SCALE



LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

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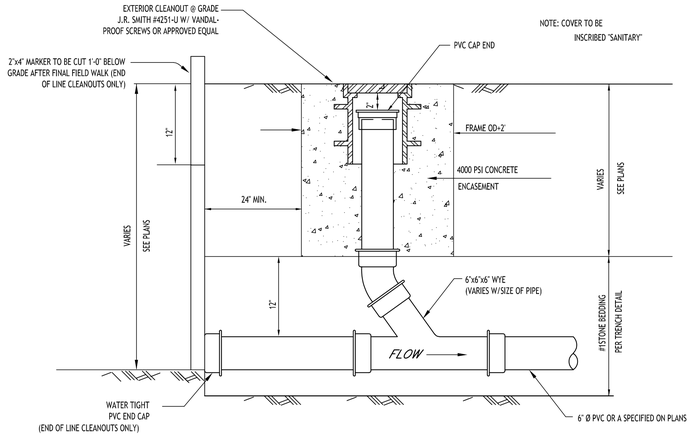
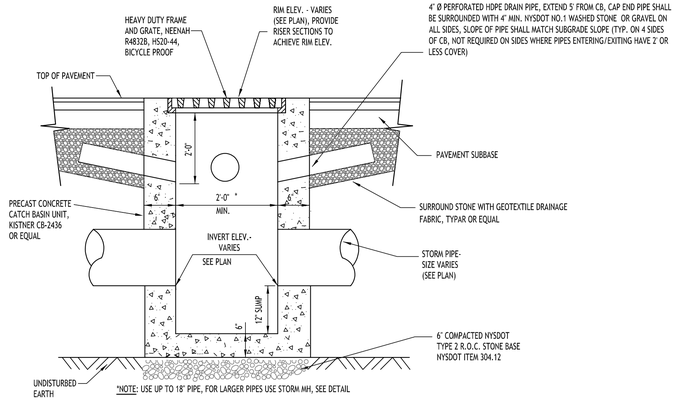


LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE



TYPICAL PRECAST CATCH BASIN

NOT TO SCALE

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Amherst Youth Center

1350 Eggert Road
Amherst, NY

REVISIONS:

No.	Description	Date

Attachment: SP-2014-10_C_drawings_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

STATE OF NEW YORK
R. CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076394

DRAWING NAME:

Storm Drainage Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-301

Project No: 25-4075

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Advanced Drainage Systems, Inc.

SiteAssist®
FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR WEBSITE

SC-310 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-310.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK-LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 325 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED, UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

1. STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 3" (75 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

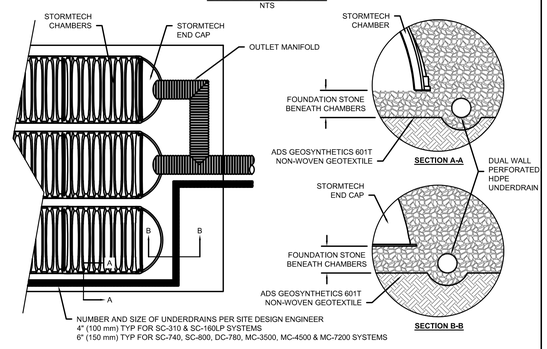
NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

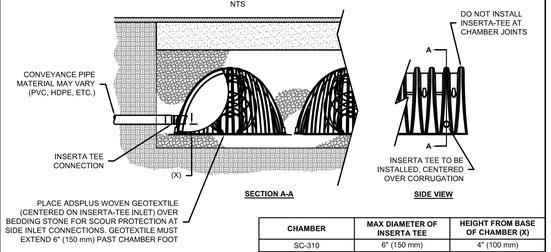
CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

UNDERDRAIN DETAIL
NTS



5 UNDERDRAIN DETAIL

INSERTA TEE DETAIL
NTS



NOTES:
- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
- CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
SC-800	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

6 INSERTA-TEE SIDE INLET DETAIL

SC-310 TECHNICAL SPECIFICATION
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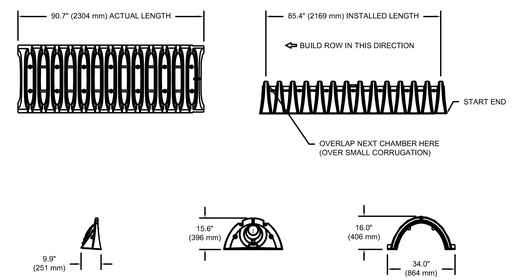
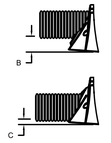


NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	29.34 CUBIC FEET	(0.83 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (150 mm) ABOVE AND BELOW CHAMBER; 3" (75 mm) BETWEEN CHAMBERS

PART #	STUB	B	C
SC310EPE06TPC	6" (150 mm)	5.8" (147 mm)	—
SC310EPE06BPC		—	0.5" (13 mm)
SC310EPE08TPC	8" (200 mm)	3.5" (89 mm)	—
SC310EPE08BPC		—	0.6" (15 mm)
SC310EPE10TPC	10" (250 mm)	1.4" (36 mm)	—
SC310EPE10BPC		—	0.7" (18 mm)
SC310ECEZ*	12" (300 mm)	—	0.9" (23 mm)



ALL STUBS, EXCEPT FOR THE SC310ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310ECEZ THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

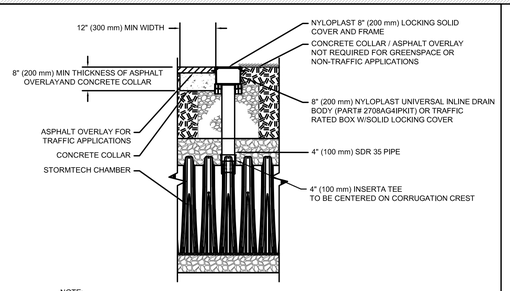
NOTE: ALL DIMENSIONS ARE NOMINAL; PRE-CORED END CAPS END WITH "PC"

2 SC-310 TECHNICAL SPECIFICATIONS



SC-310 ISOLATOR ROW PLUS DETAIL
NTS

3 SC-310 ISOLATOR ROW PLUS DETAIL



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

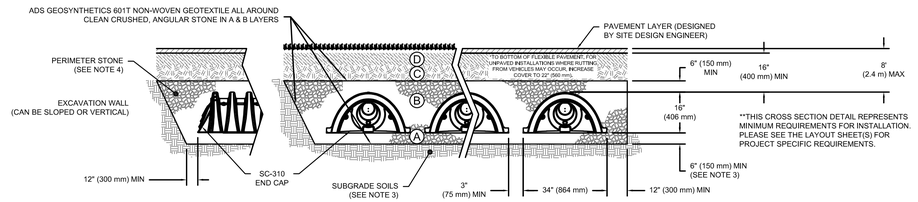
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	3.25	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 16" (400 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 325 LBS/FT/%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 SC-310 CROSS SECTION DETAIL

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Amherst Youth Center
1350 Eggert Road
Amherst, NY

REVISIONS:
No. Description Date

STATE OF NEW YORK · CHRISTOPHER NOCE · 076394 · LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Storm Drainage Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
C-302

Project No: 25-4075

Attachment: SP-2014-10_C_drawings_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

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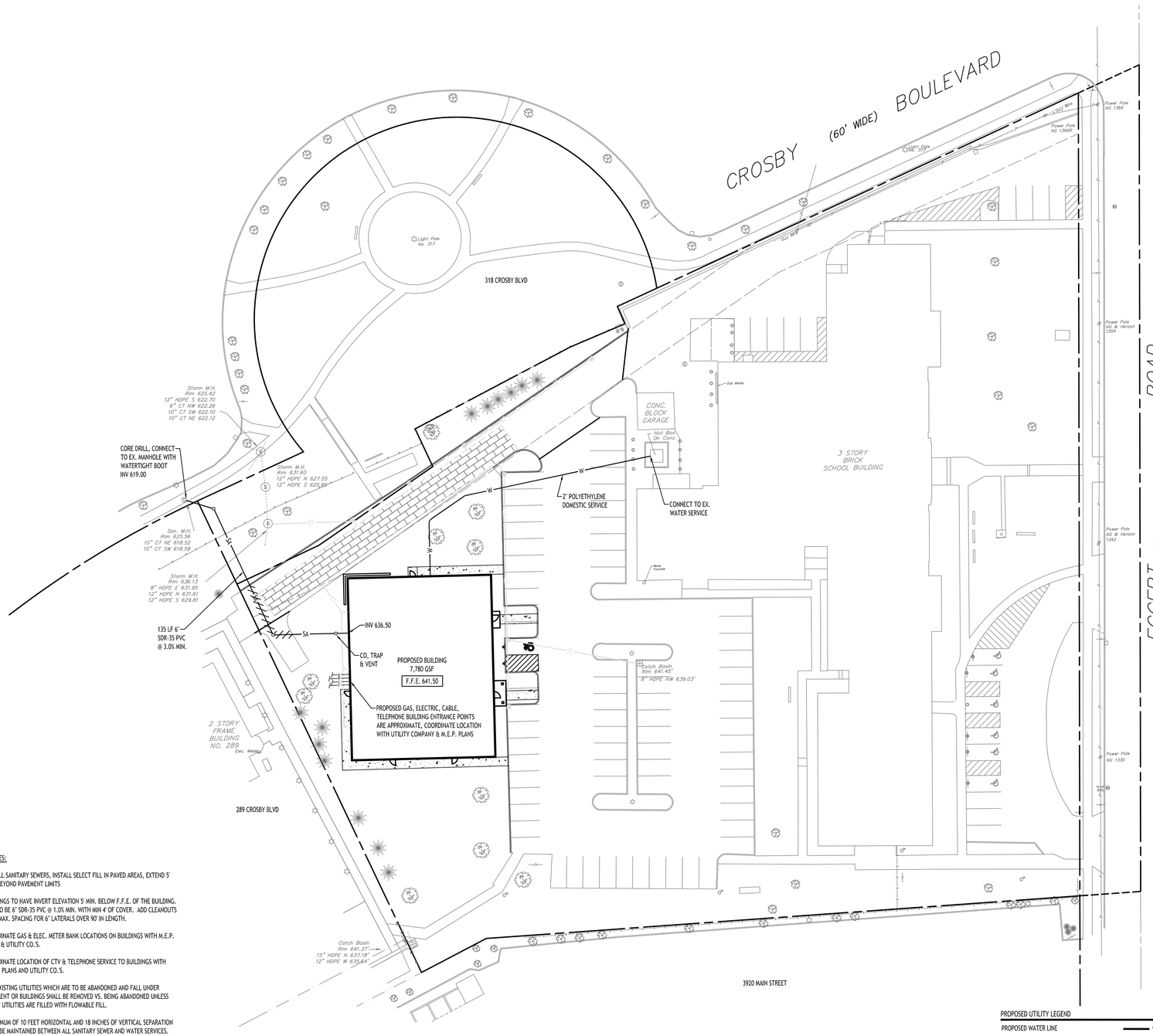

UTILITY NOTES:

1. FOR ALL SANITARY SEWERS, INSTALL SELECT FILL IN PAVED AREAS, EXTEND 5' MIN. BEYOND PAVEMENT LIMITS
2. BUILDINGS TO HAVE INVERT ELEVATION 5' MIN. BELOW F.F.E. OF THE BUILDING. PIPE TO BE 6" SDR-35 PVC @ 1.0% MIN. WITH MIN 4' OF COVER. ADD CLEANOUTS @ 90' MAX. SPACING FOR 6" LATERALS OVER 90' IN LENGTH.
3. COORDINATE GAS & ELEC. METER BANK LOCATIONS ON BUILDINGS WITH M.E.P. PLANS & UTILITY CO.'S.
4. COORDINATE LOCATION OF CTV & TELEPHONE SERVICE TO BUILDINGS WITH M.E.P. PLANS AND UTILITY CO.'S.
5. ANY EXISTING UTILITIES WHICH ARE TO BE ABANDONED AND FALL UNDER PAVEMENT OR BUILDINGS SHALL BE REMOVED VS. BEING ABANDONED UNLESS THOSE UTILITIES ARE FILLED WITH FLOWABLE FILL.
6. A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
7. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH CONCRETE AND ASPHALT PAVEMENT AREAS.

NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE TOWN OF AMHERST SPECIFICATIONS AND DETAILS, AND ERIE COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS.
2. PRIOR STARTING ANY WORK ASSOCIATED WITH OR NEAR EXISTING SANITARY MANHOLES, THE CONTRACTOR SHALL MEET WITH THE TOWN OF AMHERST TO DISCUSS AND AGREE TO THE WORK.
3. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO INSTALLATION OF UTILITIES, AND MUST BE APPROVED BY THE SUPERVISING PROJECT ENGINEER.
4. ALL SANITARY SEWER IS TO CONSTRUCTION IS TO CONFORM TO TOWN OF AMHERST SEWER DISTRICT RULES AND REGULATIONS.
5. ALL OTHER REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER.

N

Utility Plan

SCALE: 1"=30'

PROPOSED UTILITY LEGEND

PROPOSED WATER LINE	W
PROPOSED SANITARY SEWER	SA
PROPOSED UTILITY CONNECTIONS (GAS, ELEC., CABLE, TEL., ETC.)	
PROPOSED GATE VALVE	
PROPOSED CLEANOUT	
INSTALL SELECT BACKFILL	

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

3.b

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Amherst Youth Center

1350 Eggert Road
Amherst, NY

REVISIONS:

No.	Description	Date

Attachment: SP-2014-10_C_drawings. 082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Utility Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-400

Project No: 25-4075

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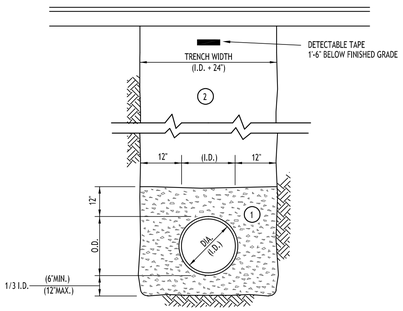


NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

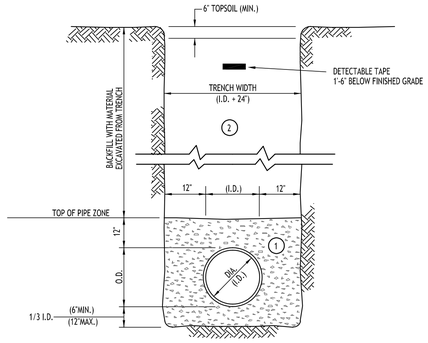
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

SEWER/WATERLINE TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

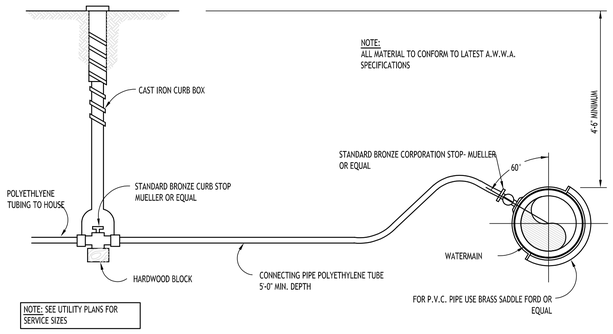
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

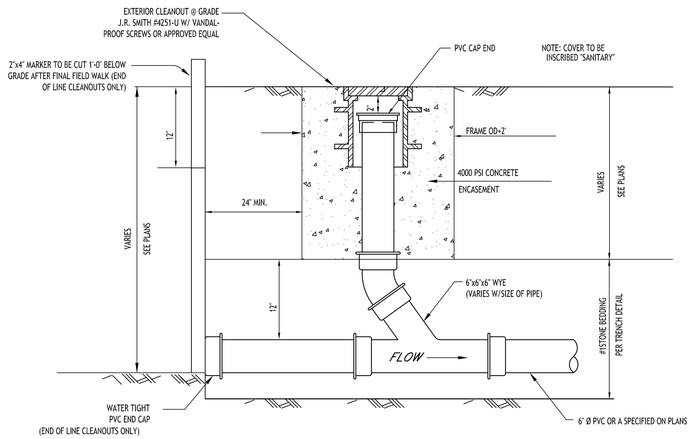
SEWER/WATERLINE TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



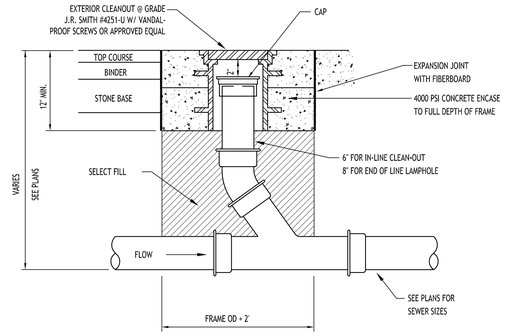
TYPICAL WATER SERVICE LINE INSTALLATION

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE



LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

NOT TO SCALE

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Buffalo | Utica | Greensboro

Amherst Youth Center

1350 Eggert Road
Amherst, NY

REVISIONS:

No.	Description	Date

Attachment: SP-2014-10_C_drawings_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)



DRAWING NAME:

Utility Details

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

C-401

Project No: 25-4075

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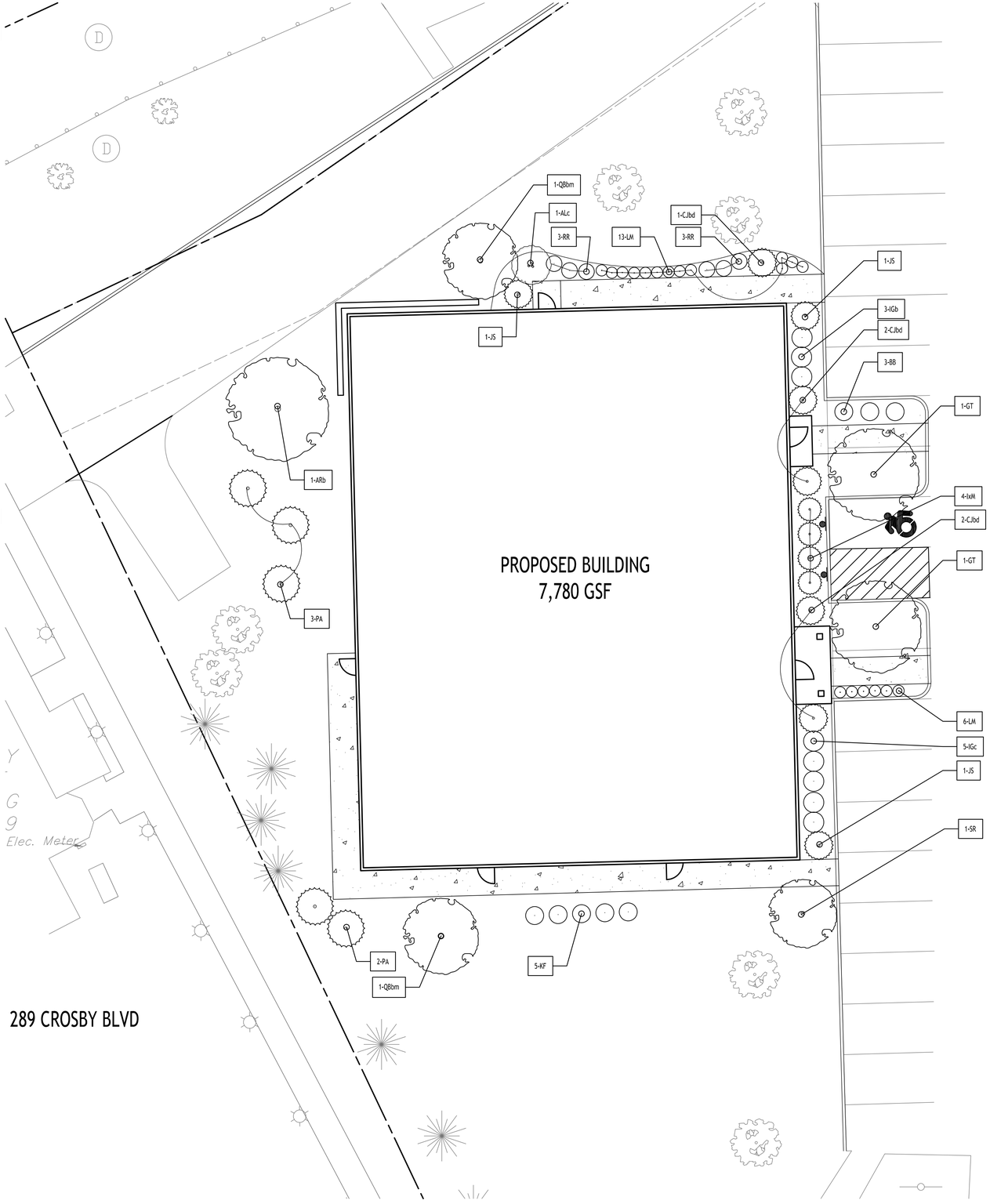

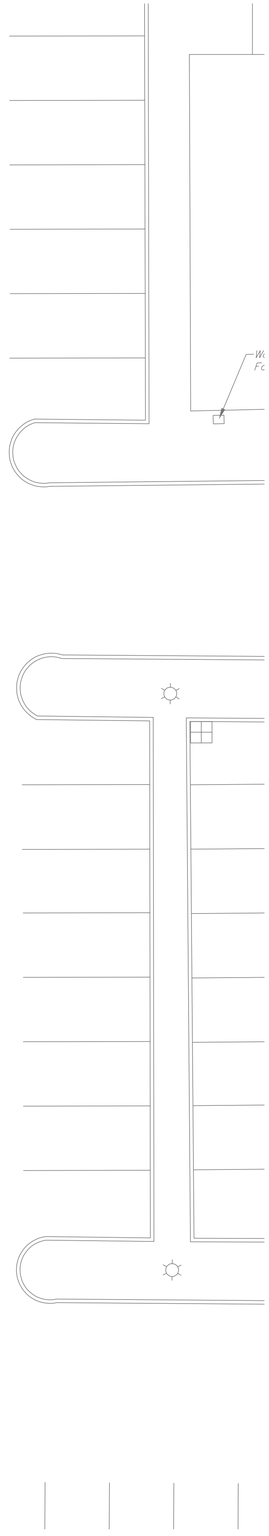

N

Landscape Plan

SCALE: 1"=10'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

10' 10 0 10 20Ft.

LANDSCAPE NOTES:

1. ALL PLANTS INSTALLED SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED ON THE PLANS AND IN THE LATEST EDITION ON THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI 260.1
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF, THE QUANTITIES SHOWN ARE A MINIMUM AND ARE FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANTING MATERIAL LOCATIONS AND CONTACT THE OWNERS FIELD REPRESENTATIVE PRIOR TO ACTUALL INSTALLING. THE PLANTING MATERIAL LOCATIONS SHOWN ON THE PLANS ARE TO CONVEY THE DESIGN INTENT ONLY, ACTUAL LOCATIONS WILL BE FINALIZED BY THE OWNERS FIELD REPRESENTATIVE AT THE TIME OF INSTALLATION.
4. THE CONTRACTOR IS HEREBY NOTIFIED THAT IF UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE PLANTINGS, ALL PROPOSED PLANTINGS SHALL BE INSTALLED A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY, CONTACT THE OWNERS FIELD REPRESENTATIVE IF PLANTINGS SHOWN ON THE PLANS VIOLATE THIS SITUATION.
5. ALL TREES SHALL BE INSTALLED A MINIMUM OF 20' FROM ANY OVERHEAD ELECTRIC LINES.
6. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 4 PARTS TOPSOIL, 1 PART PEAT MOSS, ½ PART WELL ROTTED MANURE, 10 LBS 5-10-5 PLANTING FERTILIZER THOROUGHLY MIXED PER CUBIC YARD.
7. STAKE AND WRAP TREES IMMEDIATELY FOLLOWING INSTALLATION.
8. ALL PLANTED AREAS SHALL RECEIVE A 3' LAYER OF SHREDDED PINE BARK MULCH OVER 10 MIL. WEED MAT EQUAL TO "WEEDBLOCK' BY EASY GARDENER OR DEWITT WEED BARRIER.
9. THE AREAS ON THE PLAN TO BE SEEDED SHALL HAVE 4" MINIMUM OF TOPSOIL, DISK PLOWED, LEVELED AND HAND RAKED SMOOTH. SURFACE SHALL BE ROLLED TO REMOVE LUMPS.
10. ALL SEEDED AREAS SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE SPECIFICATION INDICATED. WHERE REQUIRED BY CLIMATIC CONDITIONS, SLOPE OR SEASON OF PLANTING, SOD MAY BE SUBSTITUTED FOR SEEDING IN ORDER TO ACHIEVE THE REQUIRED COVERAGE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MOWING AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER, THIS SHALL INCLUDE WATERING DAILY FOR 15 DAYS OR AS REQUIRED BY WEATHER CONDITIONS AND RE-SEEDING OF THIN SPOTS FOLLOWING THE GERMINATION OF THE SEEDS.

PLANTING NOTES:

1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SCREENED TOPSOIL. SEASONAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

PER TOWN OF AMHERST CODE:
CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK, AND LIMB DAMAGE; INCLUDING BY NOT LIMITS TO, RETAIN WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS AS PER ZONING ORDINANCE 7-2-3(B)(3).

PER TOWN OF AMHERST CODE:
ALL REFUSE CONTAINERS & ALL MECHANICAL EQUIPMENT, UTILITY STRUCTURES, MULTIPLE METER BOARDS, GENERATORS, RPZ'S, & SIMILAR APPURTENANCES, INCLUDING THOSE WHICH ARE MOUNTED ON ANY PART OF A PRIMARY STRUCTURE SHALL BE SHOWN ON THE SITE PLAN & APPROPRIATELY SCREENED W/ A FENCE, WALL, &/OR LANDSCAPING AS REQUIRED BY 203-7-2-4(C) & 203-7-2-4(D) OF TOWN CODE. SUCH SCREENING SHALL BE SHOWN ON THE PLANS SUBMITTED FOR REVIEW. PROVIDE GATE ON REFUSE ENCLOSURE THAT SHALL BE CLOSED WHENEVER REFUSE CONTAINER(S) ARE NOT BEING SERVICED & ENCLOSURE SHALL BE HIGH ENOUGH TO SCREEN THE REFUSE CONTAINERS WITHIN.

CARMINAWOOD
DESIGN
Buffalo | Utica | Greensboro

Amherst Youth Center

1350 Eggert Road
Amherst, NY

REVISIONS:

No.	Description	Date



Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
2765 Dodge Road , East Amherst, NY 14051-2113
Phone: 716-364-5564
RCW.LandscapeArchitect@gmail.com

DRAWING NAME:
Landscape Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.
L-100

Project No: 25-4075

Attachment: SP-2014-10_C_drawings. 082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

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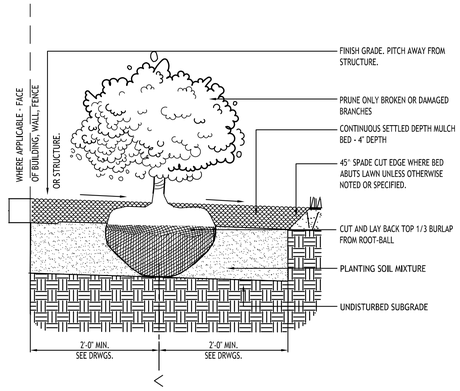
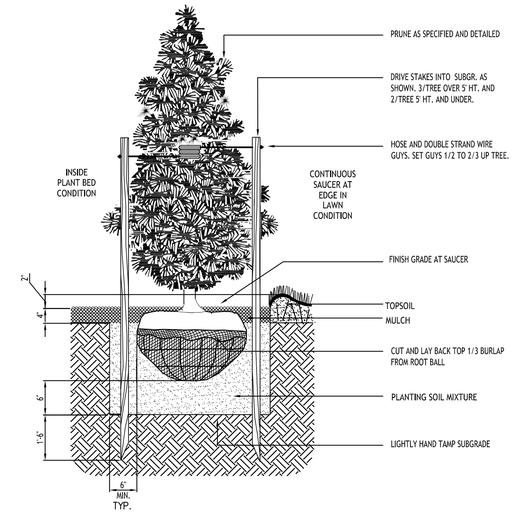
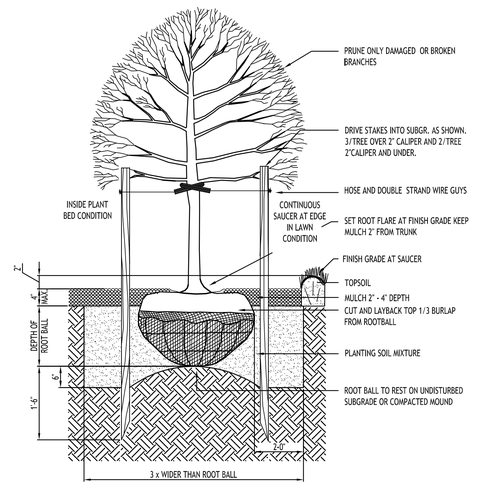


STD. SHRUB PLANTING



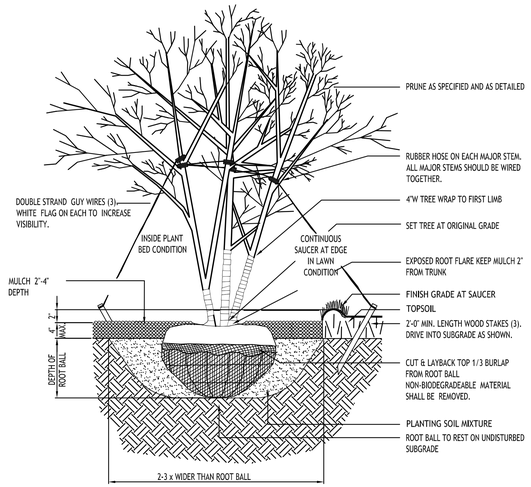
STD. EVERGREEN PLANTING



STD. DECIDUOUS TREET PLANTING

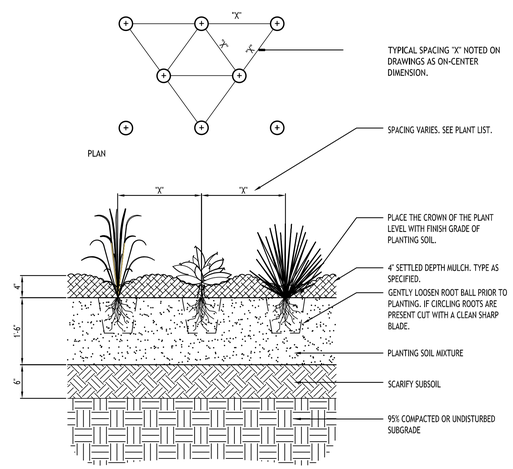
Plant Finish Schedule - Amherst Youth Center -Amherst, New York

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
		D E C I D U O U S T R E E S			
GT	2	Gleditsia triacanthos 'Inermis'	Honey locust - Skyline	2 1/2" - 3" CAL.	B&B, HT. 40', W 35'
ARb	1	Acer rubrum 'Bowhall"	Red Maple -Bowhall	2 1/2" - 3" CAL.	B&B, HT. 40', W 18'
QBbm	2	Quercus bicolor 'Bonnie & Mike'	Bonnie & Mike Oak	2 1/2" - 3" CAL.	B&B, HT. 40', W 15'
		S M A L L / O R N A M E N T A L T R E E S			
SR	1	Syringa reticulata	Ivory Silk Lilac	1 1/2" X 2 1/2" CAL.	B&B, HT. 20', W 15'
ALc	1	Amelanchier laevis 'Cumulus'	Allegheny Servicebarry	MULTI-STEM	B&B, HT. 20', W 15'
		E V E R G R E E N T R E E S			
JS	3	Juniperus scopolarum 'Skyrocket'	Skyrocket Juniper	6-8' Tall	B&B, HT. 16', W 2-4'
PA	5	Picea abies 'Hillside upright'	Norway Spruce - Upright	6-8' Tall	B&B, HT. 20', W 8'
CJbd	5	Cryptomeria Japonica 'Black Dragon'	Back Dragon Japanese cedar	6-8' Tall	B&B, HT. 7", W 4'
		S H R U B S			
RR	6	Rosa radrazz	Knockout Rose	18-24" Tall	Cont. no.3 - 3'Tall, 3'Wide
IGb	8	Ilex glabra compacta	Inkberry Holly - Compact	24-36" Tall	B&B, HT. 4', W 4'
IxM	4	Ilex x meserveae	Blue Princess Holly	24-36" Tall	B&B, HT. 5', W 5'
		G R A S S E S / P E R E N N I A L S / G R O U N D C O V E R S			
BB	3	Andropogon Gerardii	Big Blue Stem Andropogon	18-24" Tall	Cont. #3, HT. 4', W 6'
KF	5	Calamagrostis x acutiflora	Karl Foerster Reed Grass	18-24" Tall	Cont. no.3 - 3'Tall, 3'Wide
LM	19	Liriope muscari	Big Blue Lilyturf	12-16" Tall	Cont. no.3 - 1.5-2'Tall, 1.5'Wide



DECIDUOUS TREE PLANTING - MULTI - STEM

NO TO SCALE



SECTION

NOTE: PLANT BULBS IN TRENCHES AND BOUQUET PLANTING GROUPS.

GROUND COVER PLANT SPACING

NO TO SCALE

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Amherst Youth Center
1350 Eggert Road
Amherst, NY

REVISIONS:

No.	Description	Date

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Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
2765 Dodge Road , East Amherst, NY 14051-2113
Phone: 716-364-5564
RCW.LandscapeArchitect@gmail.com

DRAWING NAME:

Landscape Details
Plant Schedule

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

L-101

Project No: 25-4075

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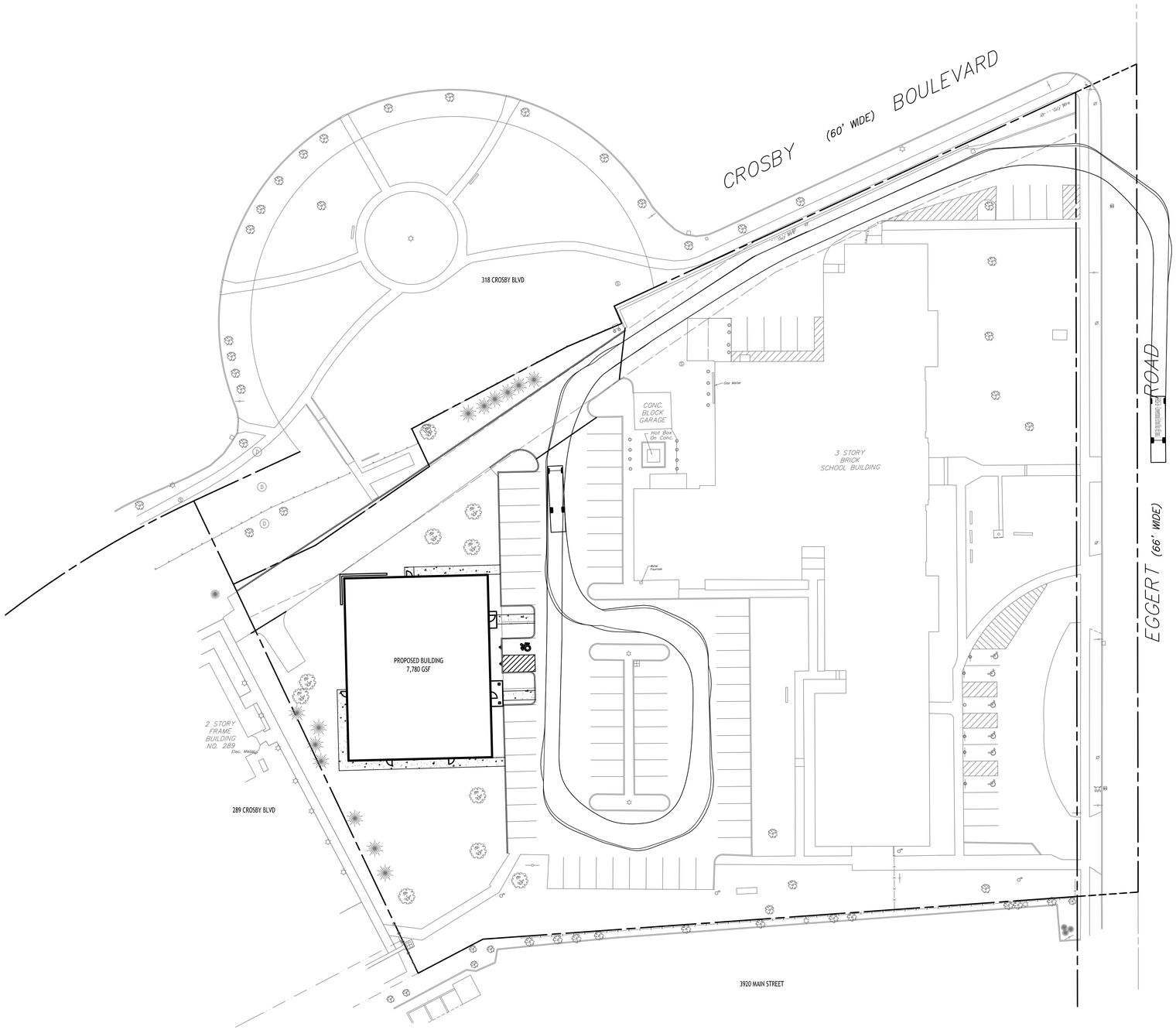

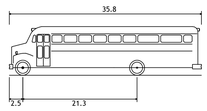

S-BUS-36 - Conventional School Bus (65 pass.)

Overall Length	35.800ft
Overall Width	8.000ft
Overall Body Height	9.063ft
Min Body Ground Clearance	1.184ft
Track Width	8.000ft
Lock-to-lock time	5.00s
Max Steering Angle (Virtual)	37.60°

N

Site Plan

SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30' 30 0 30 60Ft.

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1350 Eggert Road
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REVISIONS:

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STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

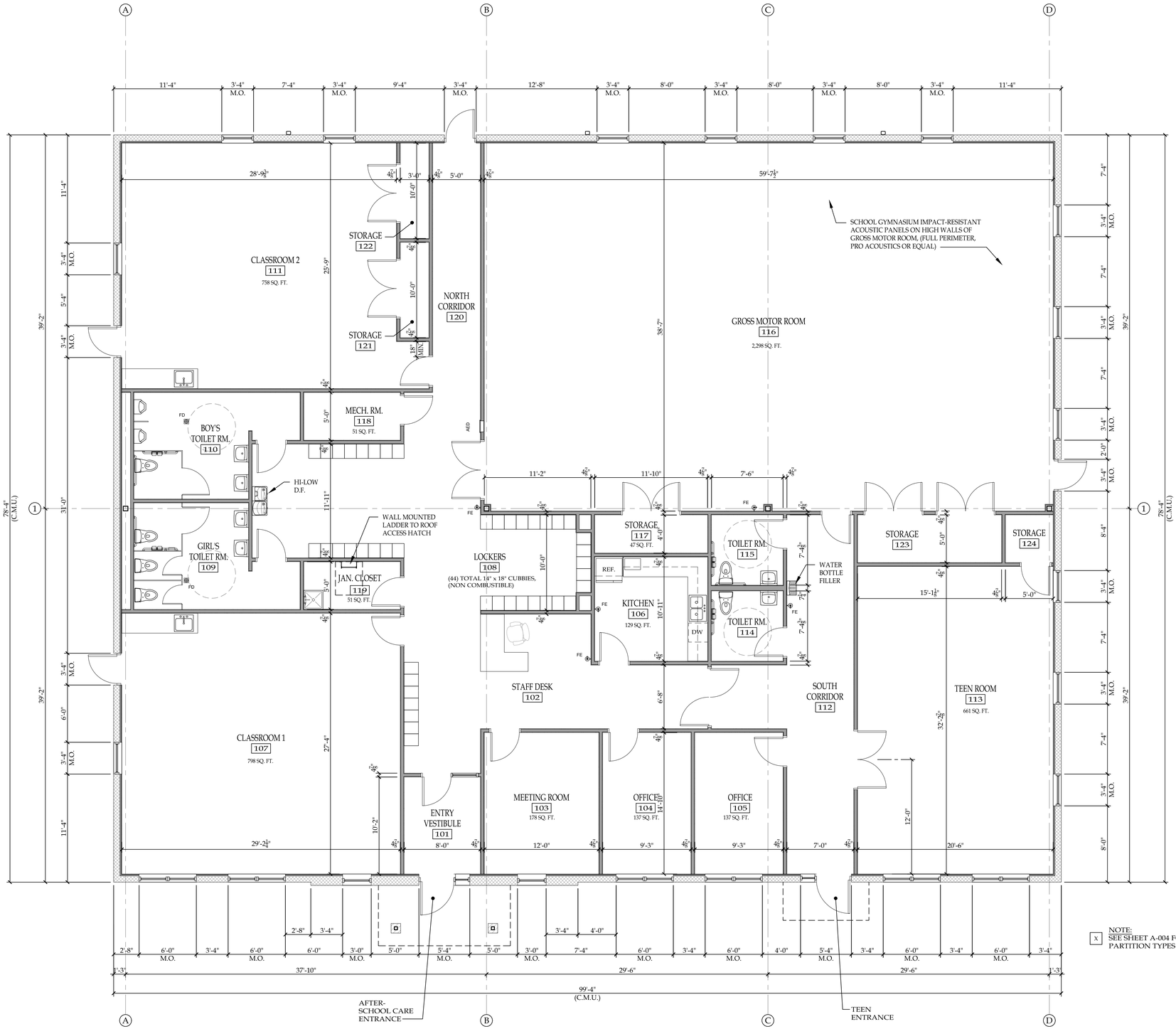
Truck Turn Plan

Date: 6/23
Drawn By: P. She
Scale: As No

DRAWING NO.

T-100

Project No: 25-4075



NOTE:
SEE SHEET A-004 FOR PARTITION TYPES & DETAILS

A1 FLOOR PLAN
SCALE: 3/16" = 1'-0"

FLOOR PLAN SYMBOL LEGEND

= INDICATES EXTERIOR WALL CONSTRUCTION (LOAD BEARING CMU - (SPEC-BRIK) WITH INTERIOR FURRING, INSULATION & GYP. BD.

= INDICATES INTERIOR WALL CONSTRUCTION (SEE PARTITION TYPES ON A-004)

X = INDICATES PARTITION WALL TYPE (SEE SHEET A-004 FOR PARTITION DETAILS)

= NEW DOOR

XXX = DOOR NUMBER (SEE DOOR SCHEDULE ON A-601)

= NEW WINDOW

X = WINDOW DESIGNATION (SEE WINDOW ELEVATIONS ON A-602)

FE = FIRE EXTINGUISHER

FD = FLOOR DRAIN, (COORD. W/PLUMBING DWGS.)

GENERAL NOTES:

- ALL INTERIOR DIMENSIONS ARE TAKEN FINISH TO FINISH UNLESS NOTED OTHERWISE.
- PROVIDE MOISTURE & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS.
- RECESSED WALL FIXTURE SUCH AS CABINETS, OUTLETS, AND OTHER ITEMS WHICH PENETRATE THE GYPSUM BOARD SURFACE SHOULD NOT BE LOCATED BACK TO BACK IN THE SAME STUD CAVITY.
- ANY OPENINGS CUT FOR ANY FIXTURES SHALL BE CAREFULLY CUT TO SIZE, PROPERLY FASTENED, INSULATED PER WALL ASSEMBLY AND PROPERLY CAULKED.
- ALL SURFACE MOUNTED CONDUIT SHALL BE PAINTED TO MATCH THE WALL PAINT.
- ALL PENETRATIONS THROUGH THE PARTITION SHALL BE SEALED ALL AROUND ON BOTH SIDES OF WALL TO ELIMINATE GAPS BETWEEN THE PENETRATION AND WALL. ALL CABLE/WIRE PENETRATIONS SHALL PENETRATE THE WALL W/ SLEEVE.
- PARTITIONS SHALL BE SEALED CONTINUOUSLY WITH AN ACOUSTICAL SEALANT WHEREVER IT ABUTS ANOTHER ELEMENT (I.E. WALL, COLUMN, FLOOR OR CEILING SLAB, OR MULLION.)
- PROVIDE GYP. BD. CORNER PROTECTION STRIPS TO +54" A.F.F. AT ALL OUTSIDE CORNERS.
- GWB FINISH LEVEL 4, PRIMED + (2) FINISH COATS SLAB TO CEILING. PROVIDE FINISH LEVEL 3 ABOVE CEILING. JOINTS BETWEEN GWB AND PLYWOOD SHALL BE STAGGERED.
- PROVIDE FIRE SAFE NON-SHRINK GROUT AT ALL VOIDS IN EXCESS OF ½" AT UNDERSIDE OF RUNNER TRACKS INSTALLED ON CONCRETE DECKS.
- COORDINATE ALL MECHANICAL, PLUMBING & ELECTRICAL WORK WITH M.E.P. CONTRACTORS & OWNER.

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ELLICOTT DEVELOPMENT
Ellicott Development Company
295 Main Street, Suite 700 | Buffalo, NY 14203
O 716.854.0060 | F 716.852.2829

Amherst youth & recreation
AMHERSTYOUTHANDREC.ORG

AMHERST YOUTH CENTER
1350 Eggert Road
Amherst, NY 14226

ISSUE:
2025-05-06 ISSUED FOR OWNER REVIEW
2025-05-23 ISSUED FOR OWNER REVIEW
2025-06-12 REV. PER OWNER COMMENTS

SA PROJECT TEAM:
PROJ. ARCH. _____ PRINCIPAL P.Silvestri
JOB CAPT. D. Garry DRAFTER SS, DG
INTERIORS S. Shank

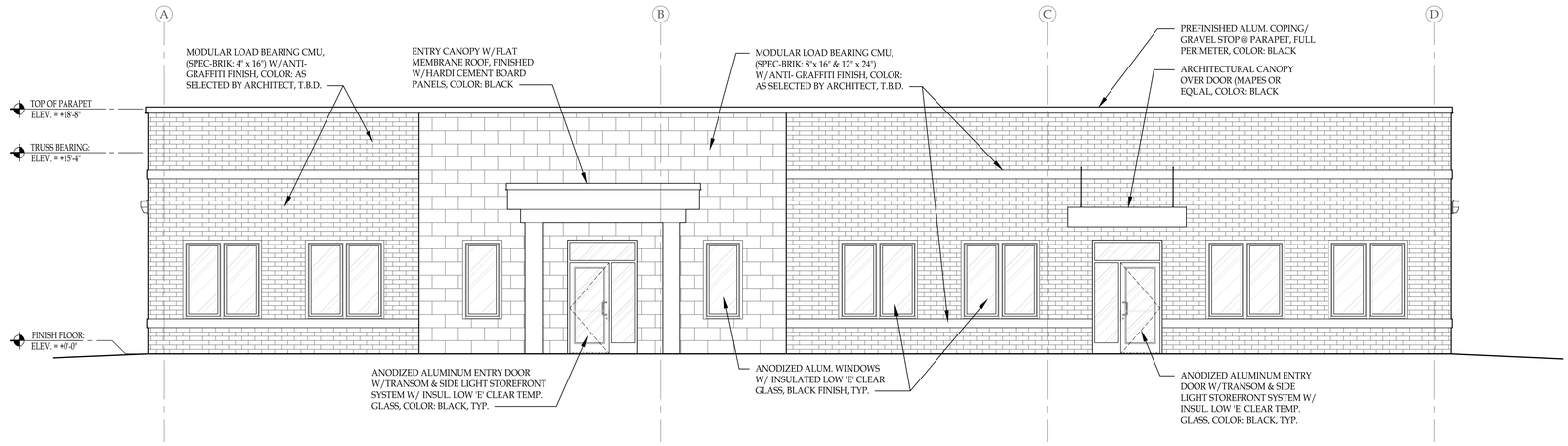
SEAL:

TITLE:
FLOOR PLAN

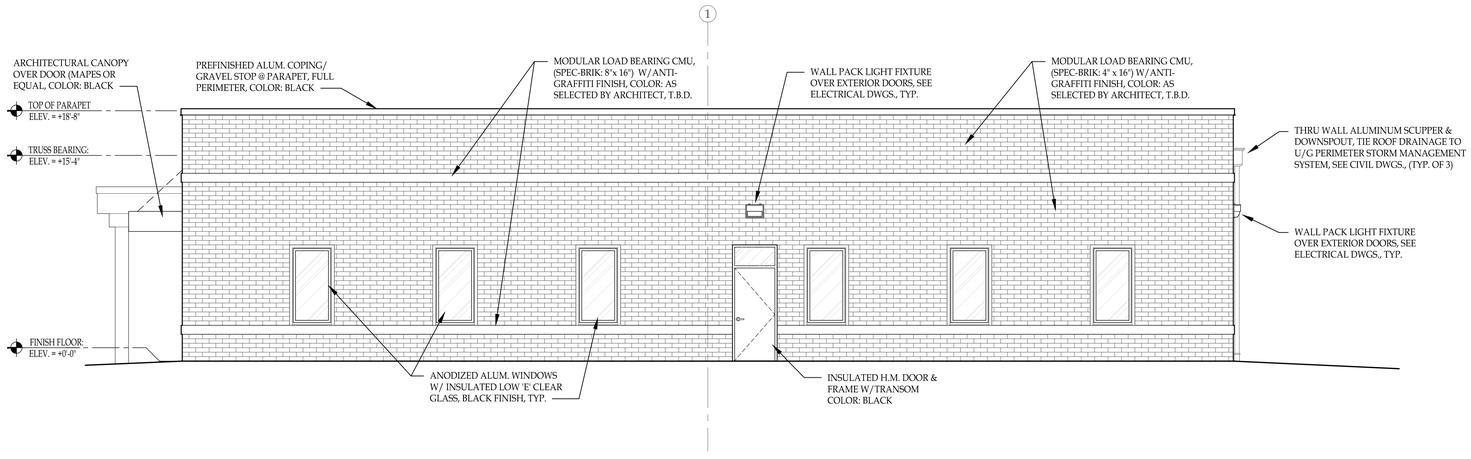
SILVESTRI ARCHITECTS · PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 24130.01
DATE: 05-06-2025
DRAWING #: A-101

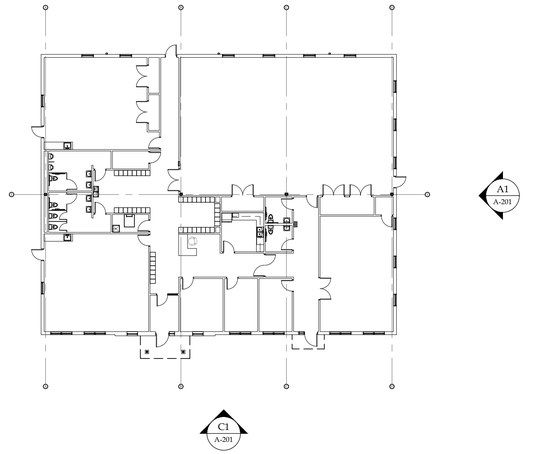
Attachment: SP-2014-10 C_drawings_082125 (30599 : SP-2014-10 C, 1350 Eggert Road)



C1 EAST ELEVATION
SCALE: 3/16" = 1'-0"



A1 NORTH ELEVATION
SCALE: 3/16" = 1'-0"



A5 EXTERIOR ELEVATION KEY PLAN
SCALE: NOT TO SCALE

N

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Ellicott Development Company
295 Main Street, Suite 700 | Buffalo, NY 14203
O 716.854.0060 | F 716.852.2829

Amherst youth & recreation
AMHERSTYOUTHANDREC.ORG

AMHERST YOUTH CENTER
1350 Eggert Road
Amherst, NY 14226

ISSUE:
2025-05-06 ISSUED FOR OWNER REVIEW
2025-05-23 ISSUED FOR OWNER REVIEW
2025-06-12 REV. PER OWNER COMMENTS

SA PROJECT TEAM:
PRINCIPAL P.Silvestri
PROJ. ARCH. _____
DRAFTER SS, DG
JOB CAPT. D. Garry
INTERIORS S. Shank

SEAL:

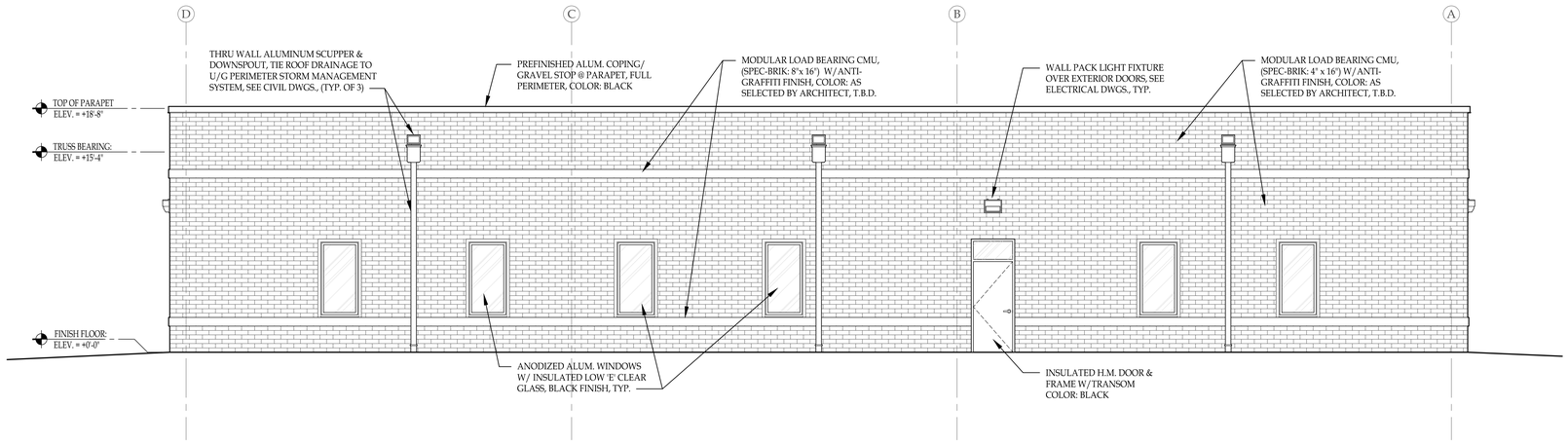
TITLE:
EXTERIOR ELEVATIONS

SILVESTRI ARCHITECTS · PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

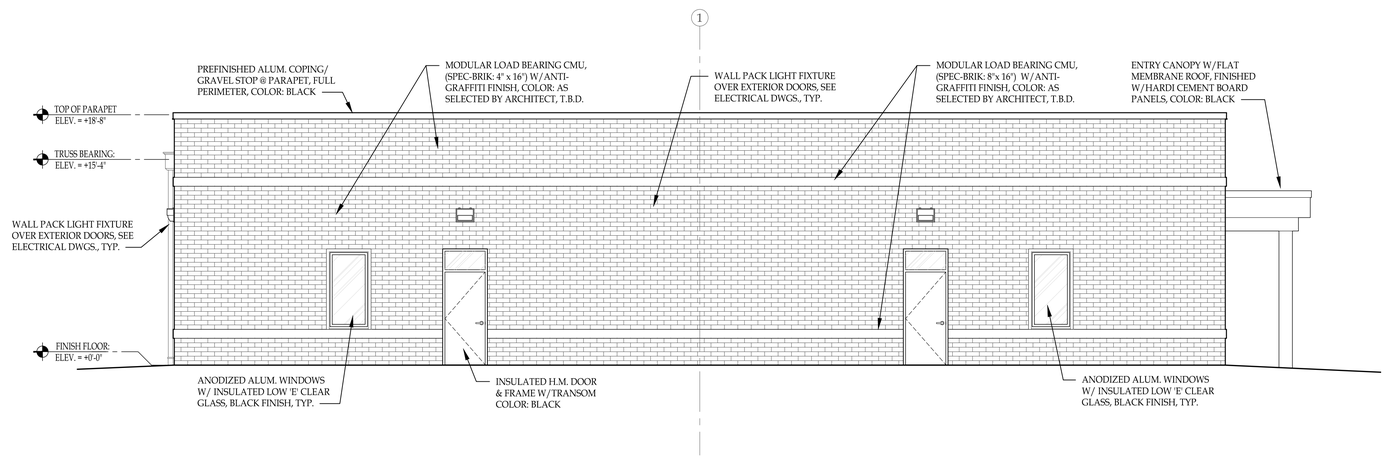
SA JOB #: 24130.01
DATE: 05-06-2025

DRAWING #: A-201

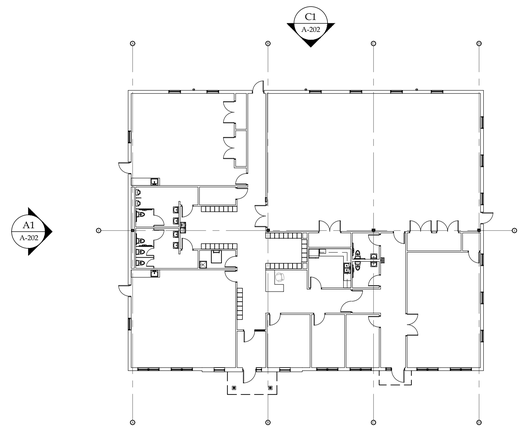
Attachment: SP-2014-10_C_drawings_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)



C1 WEST ELEVATION
SCALE: 3/16" = 1'-0"



A1 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



A5 EXTERIOR ELEVATION KEY PLAN
SCALE: NOT TO SCALE

N

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ELLICOTT DEVELOPMENT
Ellicott Development Company
295 Main Street, Suite 700 | Buffalo, NY 14203
O 716.854.0060 | F 716.852.2829

Amherst youth & recreation
AMHERSTYOUTHANDREC.ORG

AMHERST YOUTH CENTER
1350 Eggert Road
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ISSUE:
2025-05-06 ISSUED FOR OWNER REVIEW
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SA PROJECT TEAM:
PRINCIPAL P.Silvestri
PROJ. ARCH. _____
DRAFTER SS, DG
JOB CAPT. D. Garry
INTERIORS S. Shank

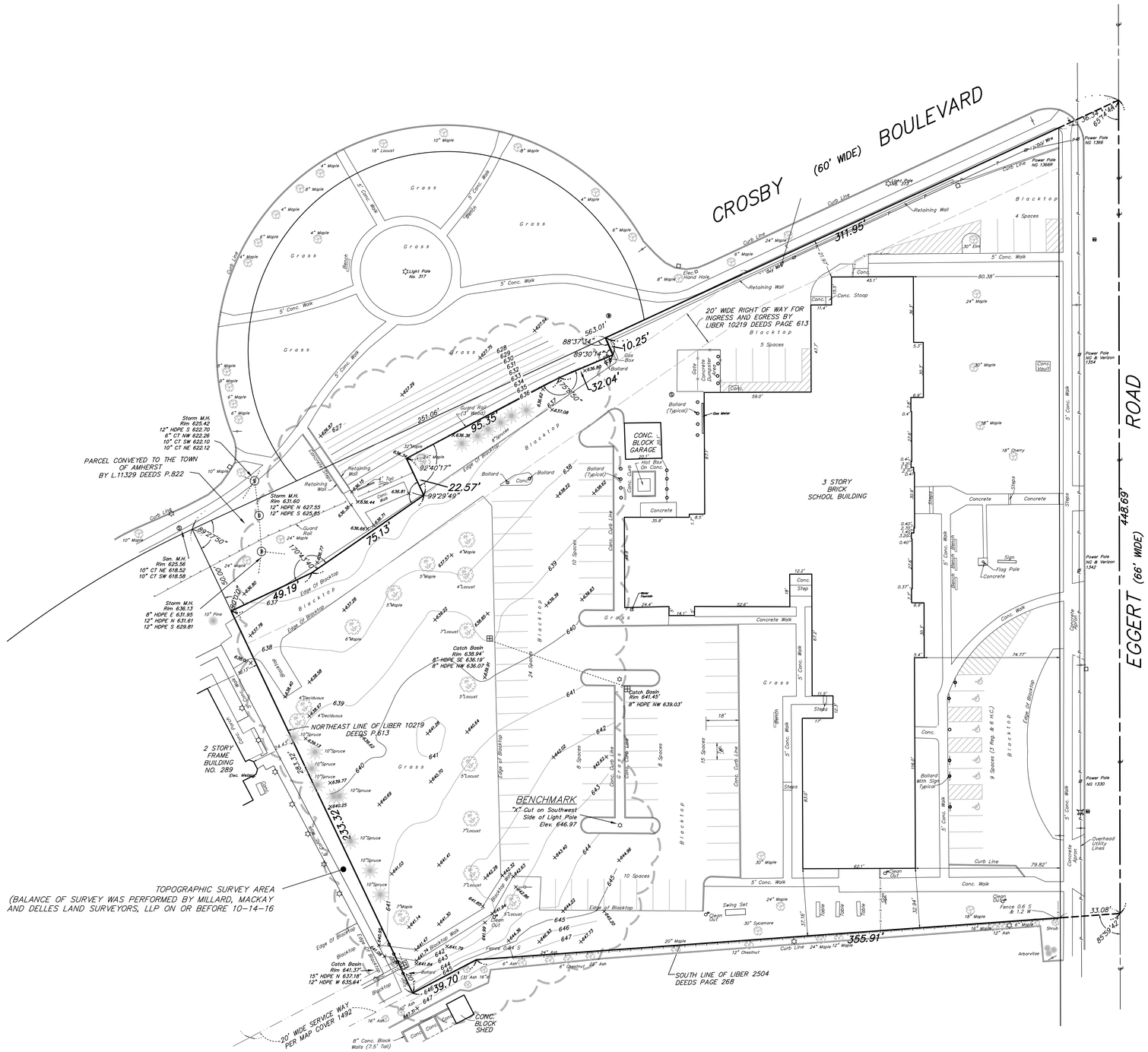
SEAL:

TITLE:
EXTERIOR ELEVATIONS

SILVESTRI ARCHITECTS · PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 24130.01
DATE: 05-06-2025
DRAWING #: A-202

Attachment: SP-2014-10_C_drawings_082125 (30599 : SP-2014-10_C, 1350 Eggert Road)





30 0 30 60 90

1 Inch = 30 ft.

LEGEND

⌀	UTILITY / SERVICE POLE	R.O.W.	RIGHT OF WAY
WV	WATER LINE VALVE	CONC.	CONCRETE
	FIRE HYDRANT	INV.	INVERT
	D.I. (DROP INLET - STORM)	M.H.	MANHOLE
D	MANHOLE (STORM)	—C—	GAS LINE
E	MANHOLE (ELECTRIC)	—W—	WATER LINE
TR	MANHOLE (TRAFFIC)	—T—	TELEPHONE LINE
S	MANHOLE (SANITARY)	—E—	ELECTRIC LINE
T	MANHOLE (TELEPHONE)	—P—	UTILITY LINES
G	GASLINE MARKER	—○—	CABLE LINES
GV	GAS LINE VALVE	D.	DEED
	LIGHT STANDARD	M.	MEASURED
—○—	SIGN	L.	LIBER
H.C.	HANDICAP	P.	PAGE

ELEVATION DATUM

ELEVATIONS ON THIS MAP WERE DETERMINED UTILIZING GPS DATUM: NAD83 (2011) EPOCH 2010.0 DATUM

INSTRUMENT(S) UTILIZED IN DETERMINING LOCATION OF BOUNDARY LINES: Liber 9252 Deeds P.21 & Liber 11329 Deeds P.822

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATE OF FACTS THAT MAY BE REVEALED IN SAID ABSTRACT.

NOTE: PROPERTY CORNER MONUMENTS WERE NOT PLACED AS PART OF THIS SURVEY.

THIS SURVEY MAP WAS PREPARED IN ACCORDANCE WITH THE CURRENT STANDARDS FOR LAND SURVEYS ADOPTED BY THE BAR ASSOCIATION OF ERIE COUNTY AT THE REQUEST OF Ellicott Development

CHRISTOPHER J. BARR NYSPLS No. 051068

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TRUE NORTH LAND SURVEYING, PLLC
150 AERO DRIVE
BUFFALO, NEW YORK 14225
(716)631-5140 ~ Truenorthpllc@aol.com

AMEND:

SURVEY DATE: 6-21-23

©DRAWING DATE: 6-28-23

SCALE: 1" = 30'

"ALL RIGHTS RESERVED"

PARTIAL TOPOGRAPHIC SURVEY

PART OF LOT 18 SECTION ____ TOWNSHIP 12 RANGE 7 OF THE: Holland Land Company's SURVEY - Erie COUNTY, N.Y.

SURVEY OF: 1350 Eggert Road, Town of Amherst

SBL No. 67.82-3-9.1

THIS MAP VOID UNLESS EMBOSSED WITH NEW YORK STATE LICENSED LAND SURVEYOR'S SEAL. ALTERING ANY ITEM ON THIS MAP IS A VIOLATION OF THE LAW EXCEPT AS PROVIDED IN SECTION 7209, PART 2, OF THE NEW YORK STATE EDUCATION LAW.

Attachment: SP-2014-10 C, drawings 082125 (30599 : SP-2014-10 C, 1350 Eggert Road)

Amherst

Town of Amherst Planning Department *Erie County, New York*

Brian J. Kulp
Supervisor

Daniel C. Howard,
Planning Direc

Daniel J. Ulatowski,
Assistant Planning D

Attachment: SP-2014-10C signed neg dec 082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

SEQR
Negative Declaration

AUG 29 2025 AM

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency:	Town of Amherst Planning Board	**Project:**	SP-2014-10_C
Address:	5583 Main Street Williamsville, NY 14221 (716) 631-7051	**Date:**	August 21, 2025

This notice is issued pursuant to Part 617 and Local Law #3-82, as amended, of the implementing regulations pertaining to Article 8 (State Environmental Quality Review) of the Environmental Conservation Law.

The Lead Agency has determined that the proposed action described below will not have a significant adverse effect on the environment.

Title of Action: Site Plan Review

SEQR Status: Unlisted

Description of Action: Addition of a 7,780 S.F. 1-story building for lease by the Town of Amherst to be used as a youth center. Work will include the site improvements not specifically stated above, including, stormwater, utilities, grading, lighting, paving, and landscaping.

Location: 1350 Eggert Road, Amherst, Erie County

Petitioner: 1097 Group, LLC

AUG 29 2025 AM8

REASONS SUPPORTING THIS DETERMINATION

Based on information submitted by the applicant including a Full Environmental Assessment Form (EAF) - Part I, (as amended), Part 2 and a complete site plan application, a preliminary staff analysis was undertaken. Compared to the criteria listed in Section 617.7, all indications are that this action will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Engineering Department – Engineering Services Division on August 21, 2025 and Engineering Department – Sanitary Division on August 15, 2025 reviewed the Grading, Drainage and Utility Plans as well as the Engineer's Report submitted on July 31 & August 18, 2025. Based on its review of these documents, the Department has determined that the project has or will have met all applicable requirements and has no objection to its approval.
2. The project will not result in the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. The Planning Department also reviewed a Landscape Plan submitted on July 30, 2025 and determined that it meets or exceeds Zoning Ordinance requirements for greenspace. The Landscape Plan has or will have met all Zoning Ordinance and Town requirements for landscaping.
3. The project is not expected to create any substantive conflict with the Town Comprehensive Plan. The Planning Department in their review of August 12, 2025 and the Zoning Enforcement Officer in his review of August 12, 2025 has reviewed the application documents and the Building Department in their review of June 30, 2025 has reviewed the application documents and determined that the subject project has or will have met all NYS Building Code – 2020 and Zoning Ordinance regulations.
4. The project is within an area identified by the State as having potential archaeological or historical significance. The NYSOPRHP reviewed the project and indicated in their letter dated July 18, 2025 that the school building is eligible for listing on the State and National Register. However, the project will not impair the character or quality of important historical resources.
5. The project will not impair the character or quality of important aesthetic resources or of existing community or neighborhood character. The project is located in the Office Building District subject to the Traditional Neighborhood Business Overlay District subzone 1 (OB-TNB-1); neighboring uses are single and two-family residential homes zoned Residential District Three (R-3) and Residential District Four (R-4) as well as media/communications offices zoned Office Building District subject to the Traditional Neighborhood Business Overlay District subzone 1 (OB-TNB-1); therefore, the project is consistent with surrounding land use.
6. The proposed subject development will include a new 7,780 SF 1-story building for lease by the Town of Amherst Youth and Recreation Department which will not cause a major change in the use of either the quantity or type of energy.

Attachment: SP-2014-10C signed neg dec 082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

AUG 29 2025 AM8

7. The Fire Chief's Association on August 21, 2025, reviewed the project and has no objection to the approval of the site plan, as all requirements of this agency has or will have been met.
8. The project will not cause a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses. The proposed 7,780 SF results in a 27.9% change in the existing site's ground coverage which will be consistent with the scale of surrounding land uses.
9. The function of the proposed youth center building will not significantly increase the number of people using the site over its previous level of use.
10. Review by the Town Traffic/Safety Board dated August 20, 2025, indicates that significant negative traffic impacts are not expected to result from the proposed project.
11. A coordinated review of the project has been undertaken by Town Departments, in addition to those mentioned above, Highway on July 17, 2025, Assessor on July 3, 2025, Plumbing Division on July 10, 2025, and Right-of-Way Agent on July 24, 2025 along with outside agencies including the Erie County Department of Environment and Planning on August 6, and the New York State Office of Parks, Recreation and Historic Preservation on July 18, 2025. These reviews have not identified any significant environmental issues and indicate that the proposal will not have a significant damaging impact on the environment.
12. Issues not specifically mentioned above and/or those not specifically reviewed were not raised by Town departments, outside agencies or the public and are not determined to cause significant negative environmental impacts.

Planning Board Approval
Moved by: O'Rourke; Seconded by: Kahn; Ayes 6; Noes 0; Absent 1 (Penberthy)

James Quinn, Assistant Planner — 8-26-25 Date

Michael J. Chmiel, Planning Board Chair — 8/28/25 Date

JQ/ac
X:\Current_Planning\Files\Site Plans\2014\SP-2014-10_C_(1350 Eggert)_2025\SP-2014-10_C_neg dec_082125.doc.docx
cc: Commissioner of Building
Town Engineer
Fire Chiefs'
Highway
Traffic/Safety
ECDEP
1097 Group, LLC, 295 Main Street, Suite 700, Buffalo, NY 14203
Sean Hopkins, 35 California Drive, Suite 100, Williamsville, NY 14221

Attachment: SP-2014-10C signed neg dec 082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-2014-10_C

PETITIONER

1097 Group, LLC
295 Main Street, Suite 700
Buffalo, NY 14203

PROPERTY LOCATION

1350 Eggert Road

AUG 29 2025 AM 6

WHEREAS, the Town of Amherst Planning Board on Thursday, August 21, 2025 held a public hearing on a Site Plan for a 7,780 S.F. 1-story youth center building, and

WHEREAS, the Planning Board reviewed the plans and specifications for the proposed project, and

WHEREAS, the Site Plan was referred to the Town's various review agencies, and

WHEREAS, in accordance with Section 8-7-9 of the Zoning Ordinance, the Planning Board finds that:

A. The proposed site plan is consistent with the development plan if one is required.

B. The proposed site plan is consistent with the purpose and specific requirements of the Zoning Ordinance and generally consistent with the policies of the Comprehensive Plan.

C. Adequate services and utilities will be available prior to occupancy.

D. The site plan is consistent with all other applicable laws.

E. Pursuant to Local Law #3-82, as amended, the Planning Board has determined that the requirements of SEQR are complete and that the subject proposal is not expected to have a significant adverse effect on the environment.

F. Review by the US Army Corps of Engineers under Section 404 of the Clean Water Act may be waived because the parcel is developed.

NOW THEREFORE BE IT RESOLVED that in accordance with 6 NYCRR, Part 617 and Local Law #3-82, as amended, the Planning Board has issued a Negative Declaration attached hereto, and

NOW THEREFORE BE IT FURTHER RESOLVED that the Planning Board, in accordance with Section 8-7 of the Zoning Ordinance approves said Site Plan subject to the following conditions:

1. That the petitioner satisfactorily address the comments of the Zoning Enforcement Officer and Planning Department listed in the Planning Department letter dated August 12, 2025 to the satisfaction of the Officer and Department.

Attachment: SP-2014-10C signed resolution 082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-2014-10_C

PETITIONER

1097 Group, LLC

PROPERTY LOCATION

1350 Eggert Road

AUG 29 2025 AHE

2. That the petitioner satisfactorily address the comments in the Amherst Fire Chief's Association letter dated August 21, 2025 to the satisfaction of that association.

3. That the petitioner satisfactorily address the comments in the Engineering Department – Sanitary Division letter dated August 15, 2025 to the satisfaction of that division.

4. That the petitioner satisfactorily address the comments in the Engineering Department – Engineering Services Division letter dated August 21, 2025 to the satisfaction of that division.

5. That the consideration of signs is specifically excluded from this approval as they require a separate review and approval by the Town.

6. That all dumpsters/trash containers and all mechanical equipment, utility structures, multiple meter boards, generators, and similar appurtenances, including those which are mounted on any part of a primary structure shall be appropriately screened with a fence, wall, and/or landscaping. Provide gate on dumpster enclosure that shall be closed whenever dumpster is not being serviced, enclosure shall be high enough to screen the dumpster(s) within.

7. That as-built record drawings, including location of utilities, be provided to the Engineering Department prior to issuance of a Certificate of Occupancy by the Building Department.

The foregoing resolution was adopted by the Town of Amherst Planning Board, August 21, 2025; moved by O'Rourke; seconded by Raffaele; ayes 6; noes 0; absent 1 (Penberthy).

Chadwell L Chmiel for
Michael J. Chmiel, Planning Board Chair

8/28/25
Date

JQ/ac
X:\Current_Planning\Files\Site Plans\2014\SP-2014-10_C_(1350 Eggert)_2025\SP-2014-10_C_resolution_082125.doc
cc: Commissioner of Building
Town Engineer
Fire Chiefs
Highway Superintendent
Traffic/Safety
ECDEP
Approved Plan: Carmina Wood Design
Received: August 18, 2025
1097 Group, LLC, 295 Main Street, Suite 700, Buffalo, NY 14203
Sean Hopkins, 35 California Drive, Suite 100, Williamsville, NY 14221

Attachment: SP-2014-10C signed resolution 082125 (30599 : SP-2014-10_C, 1350 Eggert Road)

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

ADOPTED

Meeting: 08/21/25 06:30 PM
Department: Planning
Category: Site Plan and Relief from Conditions of Site Plan
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 30653

PLANNING BOARD ITEM (ID # 30653)

Request for Extension of Site Plan Approval for a Proposed Warehouse Addition, SP-1987-64_B

Property located at 80 Creekside Drive
80 Creekside Drive LLC, Petitioner

Request for a 2-year extension of site plan approval for a 10,525± square foot one-story building addition on the north side of an existing warehousing building.

Mr. O'Rourke moved to approve the Site Plan Extension. The motion was seconded by Mr. Gill and carried. Ayes 6, Noes 0, Absent 1 (Penberthy).

ATTACHMENTS:

- SP-1987-64B signed resolution 082125 (PDF)

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Jonathan O'Rourke, Board Member
SECONDER:	Harbinder Gill, Board Member
AYES:	Chmiel, Davis, Gill, Kahn, Raffaele Jr., O'Rourke
ABSENT:	Brittany Lee Penberthy

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-1987-64_A

PETITIONER

80 Creekside Drive, LLC
c/o Chris Wood
Carmina Wood Design
487 Main Street
Buffalo, NY 14023

PROPERTY LOCATION

80 Creekside Drive

AUG 29 2025 AM

WHEREAS, the Town of Amherst Planning Board on Thursday, April 20, 2023 held a public hearing on a Site Plan for a 10,525 square foot building addition on the north side of an existing warehousing building, and

WHEREAS, the Planning Board reviewed the plans and specifications for the proposed project, and

WHEREAS, the Site Plan was referred to the Town's various review agencies, and

WHEREAS, in accordance with Section 8-7-9 of the Zoning Ordinance, the Planning Board finds that:

A. The proposed site plan is consistent with the development plan if one is required.

B. The proposed site plan is consistent with the purpose and specific requirements of the Zoning Ordinance and generally consistent with the policies of the Comprehensive Plan.

C. Adequate services and utilities will be available prior to occupancy.

D. The site plan is consistent with all other applicable laws.

E. Pursuant to Local Law #3-82, as amended, the Planning Board has determined that the requirements of SEQR are complete and that the subject proposal is not expected to have a significant adverse effect on the environment.

F. Review by the US Army Corps of Engineers under Section 404 of the Clean Water Act may be waived because the parcel is developed.

NOW THEREFORE BE IT RESOLVED that in accordance with 6 NYCRR, Part 617 and Local Law #3-82, as amended, the Planning Board has issued a Negative Declaration attached hereto, and

NOW THEREFORE BE IT FURTHER RESOLOVED that the Planning Board, in accordance with Part II, Chapter 83, Part IX, Section 1-2 of Town Law waives sidewalks required along the Creekside Drive frontage of the parcel until required at some future time by the Town Board, and

Attachment: SP-1987-64B signed resolution 082125 (30653 : SP-1987-64_B 80 Creekside Drive)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-1987-64_A

PETITIONER

80 Creekside Drive, LLC

PROPERTY LOCATION

80 Creekside Drive

AUG 29 2025 AM

NOW THEREFORE BE IT FURTHER RESOLVED that the Planning Board, in accordance with Section 8-7 of the Zoning Ordinance approves said Site Plan subject to the following conditions:

1. That the petitioner provide a Geotechnical Report for review and approval by the Building Department, prior to the issuance of any building permits.

2. That the petitioner provide a revised Engineer's Report to indicate if any additional water/sanitary use is planned within the building addition. If additional water/sanitary use is anticipated, the additional use must be quantified as average and peak flows as per the current NYSDEC design standards.

3. That the petitioner satisfy the requirements of the Fire Chief's Association outlined in their letter dated March 31, 2023, to the satisfaction of the Association.

4. That the petitioner satisfy the requirements of the Zoning Enforcement Officer outlined in the officers letter dated March 31, 2023 to the satisfaction of that officer.

5. That the petitioner satisfy the requirements of the Planning Department outlined in their letter dated March 31, 2023 to the satisfaction of that department.

6. That the petitioner satisfy the requirements of the Building Department outlined in their letter dated April 5, 2023 to the satisfaction of that department.

7. That sidewalks be installed along the Creekside Drive frontage at a time when the adjacent parcel to the east at 140 Creekside Drive is developed and sidewalks are required.

8. That the consideration of signs is specifically excluded from this approval as they require a separate review and approval by the Town.

9. That all dumpsters/trash containers and all mechanical equipment, utility structures, multiple meter boards, generators, and similar appurtenances, including those which are mounted on any part of a primary structure shall be appropriately screened with a fence, wall, and/or landscaping. Provide gate on dumpster enclosure that shall be closed whenever dumpster is not being serviced, enclosure shall be high enough to screen the dumpster(s) within.

10. That as-built record drawings, including location of utilities, be provided to the Engineering Department prior to issuance of a Certificate of Occupancy by the Building Department.

Attachment: SP-1987-64B signed resolution 082125 (30653 : SP-1987-64_B 80 Creekside Drive)

'23 APR 26 PM12:59

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-1987-64_A

PETITIONER

80 Creekside Drive, LLC

PROPERTY LOCATION

80 Creekside Drive

AUG 29 2025 AMB

The foregoing resolution was adopted by the Town of Amherst Planning Board, April 20, 2023; moved by Chmeil; seconded by Penberthy; ayes 7, noes 0.

Robert J. Gilmour, Planning Board Chair — 4-25-23. Date

NOW THEREFORE BE IT FURTHER RESOLVED that the Planning Board has granted a two-year extension to its Site Plan approval of May 18, 2023 retroactive to May 18, 2025.

The foregoing resolution was adopted by the Town of Amherst Planning Board, August 21, 2025; moved by O'Rourke; seconded by Gill; ayes 6; noes 0; absent 1 (Penberthy).

Michael J. Chmiel, Planning Board Chair — 8/28/25 Date

TV/ac
X:\Current_Planning\Files\Site Plans\1987\SP-1987-64_A_(80_Creekside_Dr)_2023\SP-1987-64_A_resolution_042023.docx
cc: Commissioner of Building
Town Engineer
Fire Chiefs
Traffic/Safety
Highway Superintendent
Chris Wood, Carmina Wood Design, 487 Main Street, Buffalo, NY 14023
Sean Hopkins, Hopkins Sorgi & McCarthy, 5500 Main St., Suite 343, Williamsville, NY 14221
Kevin Curry (electronically)

Approved Plan: Carmina Wood Design
Received: March 30, 2023

'23 APR 26 PM12:59

Attachment: SP-1987-64B signed resolution 082125 (30653 : SP-1987-64_B 80 Creekside Drive)

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

ADOPTED

Meeting: 08/21/25 06:30 PM
Department: Planning
Category: Subdivisions & Relief from Conditions
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 30672

PLANNING BOARD ITEM (ID # 30672)

Preliminary Plat Review for a Proposed 14 Building Lot Subdivision, SUB-2024-02_PP

Property located at 1789 Dodge Road
Joseph Rubino, Petitioner

Preliminary Plat application for proposal to subdivide 6.7 acres on the south side of Dodge Road into 17 parcels for 14 single family building lots, 2 lots for open space and 1 lot for stormwater retention.

June 26, 2025

Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, represented the petitioner, explained the proposal and was available to answer questions from the Board. Joseph Rubino, Petitioner, and Dan LaPierta, Carmina Wood Design, were also present.

In response to the Board's questions, Mr. Hopkins stated the proposed subdivision is higher density than the adjoining property but not the nearby subdivisions and discussed the potential headlight impact at 1780 and 1790 Dodge Road and their willingness to plant evergreen trees on both properties.

William Pitz, 1815 Dodge Road; Sandy Mack, 1790 Dodge Road; and Nancy Fender, 101 Main Street; spoke in opposition to the proposal.

No further comments were heard on this proposal. The hearing was closed.

Following discussion, Ms. Penberthy moved to deny the waiver to §204 of Town Code for the paved stub road and approve the waiver for sidewalks on the southerly property line. The motion was seconded by Mr. O'Rourke and carried. Ayes 5, Noes 0, Absent 2 (Kahn, Raffaele).

A motion to approve the Preliminary Plat was made by O'Rourke; seconded by Davis; ayes 3; noes 2 (Gill, Penberthy); absent 2 (Kahn, Raffaele). The result is uncertain and the motion did not carry.

The Motions and subsequent votes created great confusion as to their outcome and effect. Both the Applicant, through their attorney and members of the Public objected to the Motions and their potential results.

July 24, 2025

Ms. Penberthy moved to rescind the vote of June 26, 2025 on the waiver to §204 of Town Code. The motion was seconded by Mr. O'Rourke and carried. Ayes 6, Noes 0, Absent 1 (Gill).

Ms. Penberthy moved to rescind the vote of June 26, 2025 on the Preliminary Plat determination. The motion was seconded by Mr. O'Rourke and carried. Ayes 6, Noes 0, Absent 1 (Gill).

Ms. Penberthy moved to adjourn the waiver to §204 of Town Code to the August 21, 2025 Planning Board meeting. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Gill).

Ms. Penberthy moved to adjourn the Preliminary Plat determination to the August 21, 2025 Planning Board meeting. The motion was seconded by Ms. Kahn and carried. Ayes 6, Noes 0, Absent 1 (Gill).

August 21, 2025

Mr. O'Rourke moved to approve the waiver to §204 of Town Code for the paved stub road. The motion was seconded by Mr. Davis. No action was taken on the motion. Ayes 3, Noes 3, (Chmiel, Kahn, Raffaele) Absent 1 (Penberthy).

Following discussion, Mr. Raffaele moved to approve the waiver to §204 of Town Code requiring development of the stub street to the southerly property line, as shown on drawing P-100 dated July 25, 2025 prepared by Carmina Wood Design to retain the area as "greenspace" until such time as the road is required to be constructed . The motion was seconded by Mr. O'Rourke. Ayes 6, Noes 0, Absent 1 (Penberthy).

Following the approval of the waiver requirements of §204 of Town Code, Mr. O'Rourke moved to approve the request based on the resolution. The motion was seconded by Mr. Raffaele and carried. Ayes 5, Noes 1 (Gill), Absent 1 (Penberthy).

HISTORY:

07/24/25	**Planning Board**	**ADJOURNED**	**Next: 08/21/25**

ATTACHMENTS:

- SUB-2024-02_PP application 062625 (PDF)
- SUB-2024-02_PP drawings 062625 (PDF)
- SUB-2024-02PP signed resolution 072425 (PDF)
- SUB-2024-02PP signed resolution 082125 (PDF)

RESULT:	**APPROVED [5 TO 1]**
MOVER:	Jonathan O'Rourke, Board Member
SECONDER:	Joseph P. Raffaele Jr., Board Member
AYES:	Chmiel, Davis, Kahn, Raffaele Jr., O'Rourke
NAYS:	Harbinder Gill
ABSENT:	Brittany Lee Penberthy

Preliminary Plat Application
Applicant: Joe Rubino
Location: 1789 Dodge Road

TOWN OF AMHERST PLANNING DEPARTMENT

Subdivision Application

For Official Use

File # 2024-02_PP _____ **Acreage** _____ **Fee $** _____

Type of Subdivision Application (check one):

Sketch Plan _____
Preliminary Plat _____
Final Plat _____

Address Verified by Assessor's Office _____ (VERIFIED BY / DATE)

Materials Received by Planning Department _____ (RECEIVED BY / DATE)

Fee Paid to Town Clerk _____ (RECEIVED BY / DATE)

		Fill In Applicable Fees
Sketch Plan	**$1,150.00**	
Preliminary Plat		
* 1 acre or less	**$1,250.00**	$1,250
* Each additional acre or fraction thereof *(fraction to be counted as 1 acre)*	**$ 650.00/acre**	$3,705
Amendments to Subdivisions	$1,150.00	
Request for Relief of / or Change to Conditions of Subdivision Approval	$1,150.00	
Request for Extension of Subdivision Approval	$ 450.00	
Minor Modification to a Subdivision Plat	$ 325.00	
Stormwater Pollution Prevention Plan		
1 - 4.99 Acres	$ 500.00	
5 - 10 Acres	$ 750.00	$750
>10 Acres	$1,000.00	
Affidavit Fee for Public Hearing	**$ 15.00**	$15
Final Plat	**$ 450.00**	
	TOTAL FEE:	$4,970

Town of Amherst Planning Department • 5583 Main Street • Williamsville • New York 14221
(716) 631-7051 • Fax: • (716) 631-7153 • Web: www.amherst.ny.us

A completed Part 1 of the Full Environmental Assessment Form with Attachments is provided at Exhibit "1"

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

SUBDIVISION APPLICATION (con't)

To Be Completed By Applicant

Petitioner:

Name: Joseph Rubino c/o Sean Hopkins, Esq.

Address: 35 California Drive, Suite 100

Williamsville (city) New York (state) 14221 (zip code)

Phone: 716.510-4338 Fax:

E Mail: shopkins@hsmlegal.com

Representative (Architect, Engineer, Landscape Architect, Surveyor, or Attorney)**:**

Name: Carmina Wood Design

Address: 80 Silo City, Suite 100

Buffalo (city) New York (state) 14203 (zip code)

Phone: 716-842-3165 Fax:

E Mail: cwood @carminawooddesign.com

Subdivision Location & Address: 1789 Dodge Road

East Amherst, NY 14051

Town of Amherst, Erie County, New York

Zoning District(s): Residential District Three ("R-3")

Number of Proposed Sublots: 14 lots

Proposed Subdivision Name:

Proposed Street Names:

	☑ Public	☐ Private
	☐ Public	☐ Private
	☐ Public	☐ Private
	☐ Public	☐ Private

Current Planning/Application Forms 2019/Subdivision Application Form 2019
REVISED February 2021

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Exhibit 1 - Part 1 of Full EAF with Page 5[a] and Attachments "A" and B

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Full Environmental Assessment Form
Part 1 - Project and Setting

Prepared By: Sean W. Hopkins, Esq.
Hopkins Sorgi & McCarthy PLLC
35 California Road, Suite 100
Williamsville, New York 14221
Tel: 716.510-4338
E-mail: shopkins@hsmlegal.com

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Proposed Residential Subdivision		
Project Location (describe, and attach a general location map): 1789 Dodge Road - Town of Amherst - Erie County		
Brief Description of Proposed Action (include purpose or need): The proposed project ("action") consists of a 14 lot residential subdivision for detached single-family homes to be located on approximately 6.7 acres of land located at 1789 Dodge Road ("Project Site") zoned Residential District Three ("R-3") along with all related site improvements. The frontage of the Project Site will consist of Permanent Open Space. The proposed action has been defined broadly to include all required discretionary approvals and permits as well as all proposed site improvements including proposed detached single family homes, a public roadway connecting onto Dodge Road, driveways, lighting, an on-site storm water management system, and all required utility improvements. The project purpose is to develop the Project Site for Single-Family Residential Use in accordance with the existing R-3 zoning classification. It is important to mention that the Town Board previously conducted a coordinated environmental review of the project that resulted in its issuance of a Negative Declaration on July 22, 2021. A copy of the Negative Declaration issued by the Town Board is provided at Attachment "A".		
Name of Applicant/Sponsor: Joe Rubino c/o Sean Hopkins, Esq., Hopkins Sorgi & McCarthy PLLC	Telephone: 716.510-4338 E-Mail: shopkins@hsmlegal.com	
Address: 35 California Drive, Suite 100		
City/PO: Williamsville	State: New York	Zip Code: 14221
Project Contact (if not same as sponsor; give name and title/role):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Same as Project Sponsor	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	Dedication of Public Roadway & PIPs	To be Determined
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Preliminary Plat and Final Plat Approval	February 14, 2025
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☑Yes ☐No	Engineering Dept. - Stormwater Permit; Building Dept. - Demolition Permit and Building Permits	To be Determined
e. County agencies ☑Yes ☐No	ECDPW - Highway Work Permit; ECWA - Water; ECHD - Sewer and Water	To be Determined
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	NYSDEC - Wetland Permit, SPDES Permit and DSCA Approval	Wetland Permit Application is pending
h. Federal agencies ☐Yes ☑No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? The Town has adopted a LWRP ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☑Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

[Note: The proposed action will not have any adverse impacts on the West Erie Canal Corridor.]

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Residential District Three ("R-3")

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site?

C.4. Existing community services.

a. In what school district is the project site located? Williamsville Central School District

b. What police or other public protection forces serve the project site?
Town of Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?
Volunteer Fire Department

d. What parks serve the project site?
There are various Town parks that will be accessible to the future residents of the proposed residential subdivision.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Residential subdivision consisting of detached single-family homes on individual lots with public roadway.

b. a. Total acreage of the site of the proposed action? 6.7 acres
b. Total acreage to be physically disturbed? 5.61 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 6.7 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☑ Yes ☐ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? 14
iv. Minimum and maximum proposed lot sizes? Minimum 8,450 sq. ft. Maximum 14,700

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

f. Does the project include new residential uses? ☑ Yes ☐ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	14			
At completion of all phases	14			

g. Does the proposed action include new non-residential construction (including expansions)? ☐ Yes ☑ No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑ Yes ☐ No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑ Other specify: Runoff from impervious surfaces on the Project Site including roof of homes, roadway and driveways.

iii. If other than water, identify the type of impounded/contained liquids and their source. Not Applicable

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: .4 acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): Earth fill.

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐ Yes ☑ No

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☐ No

If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐ Yes ☐ No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): There is a small wetland with a size of 0.054 acres on the eastern portion of the Project Site, and 436.3 linear feet of a jurisdictional ditch per the wetland delineation of the Project Site prepared by Earth Dimensions, Inc. dated December 21, 2020. The small wetland area is subject to the jurisdiction of the NYSDEC and USACE.

A copy of the wetland determination letter issued by the New York State Environment Environmental Conservation dated March 10, 2021 is provided at Attachment "B" . The Project Sponsor is proposing to impact 0.08 acres of impacts to the 100 ft. Adjacent Area of NYSDEC Freshwater Wetland CC-15.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☐ No
If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐ No
If Yes:

- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use, or create a new demand for water? ☑ Yes ☐ No
If Yes:

i. Total anticipated water usage/demand per day: 6,160 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑ Yes ☐ No
If Yes:

- Name of district or service area: ECWA
- Does the existing public water supply have capacity to serve the proposal? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No
- Do existing lines serve the project site? ☐ Yes ☑ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☑ No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 6,160 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
Sanitary wastewater.

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑ Yes ☐ No
If Yes:

- Name of wastewater treatment plant to be used: Town of Amherst Waste Water Treatment Plant on Tonawanda Creek Road.
- Name of district: Town of Amherst Consolidated Sanitary Sewer District
- Does the existing wastewater treatment plant have capacity to serve the project? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☑ Yes ☐ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑ Yes ☐ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or 1.57 acres (impervious surface)

_____ Square feet or 6.7 acres (parcel size)

ii. Describe types of new point sources. Stormwater runoff from impervious surfaces on the Project Site.

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

On-site stormwater management system.

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☑ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☑ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☑ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☐No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☐No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7:00 am to 7:00 pm
- Saturday: 7:00 am to 5:00 pm
- Sunday: As needed
- Holidays: Not Applicable

ii. During Operations:

- Monday - Friday: Not Applicable
- Saturday: _____
- Sunday: _____
- Holidays: _____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

i. Provide details including sources, time of day and duration:

Construction activities in furtherance of the construction of the proposed residential subdivision will result in temporary unavoidable adverse noise impacts during daytime hours. The project will not result in any long-term adverse noise impacts.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: _____

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

There will be lighting provided within the public right-of-way per Town's standards for a residential street.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____
- Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____
- Operation: _____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☐ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

The properties in the vicinity of the Project Site have various zoning classifications - The principal use of the nearby parcels consists of single-family homes on individual lots.

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	.3	1.57	1.2
• Forested	1.9	1.60	(0.3)
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	3.45	0	(3.45)
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0.054	0.054	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: Lawn/Permanent Open Space	1.0	2.7	1.7

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No
If Yes,
i. Identify Facilities:
_____
_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No
If Yes:
i. Dimensions of the dam and impoundment:
- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:
_____
_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No
If Yes:
i. Has the facility been formally closed? ☐ Yes ☐ No
- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:
_____
_____
iii. Describe any development constraints due to the prior solid waste activities: _____
_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:
_____
_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No
☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____
☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____
_____
_____
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):
_____
_____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☐

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? > 5 ft. feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site:

Elnora Loamy Fine Sand	53 %
Wayland Soils Complex	28 %
Cheektowaga Fine Sandy Loam	19 %

d. What is the average depth to the water table on the project site? Average: 5 feet

e. Drainage status of project site soils:

☐ Well Drained:	_____% of site
☐ Moderately Well Drained:	53 % of site
☐ Poorly Drained	47 % of site

f. Approximate proportion of proposed action site with slopes:

☑ 0-10%:	100 % of site
☐ 10-15%:	_____% of site
☐ 15% or greater:	_____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 837-47 Classification C
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name NYS Wetland, Federal Waters, Federal Waters, Fe... Approximate Size NYS Wetland (in a...
- Wetland No. (if regulated by DEC) CC-15

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☑ Yes ☐ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____
Name - Pollutants - Uses:Ransom Creek, Lower, and tribs – Pathogens;D.O./Oxygen Demand – Recreation;Aquatic Life

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☑ Yes ☐ No

k. Is the project site in the 500-year Floodplain? ☑ Yes ☐ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

m. Identify the predominant wildlife species that occupy or use the project site: _____
Typical suburban speices _____ _____ _____
_____ _____ _____

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
_____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:
i. Species and listing (endangered or threatened): _____
_____
_____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:
i. Species and listing: _____
_____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use: _____
_____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____
_____
_____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

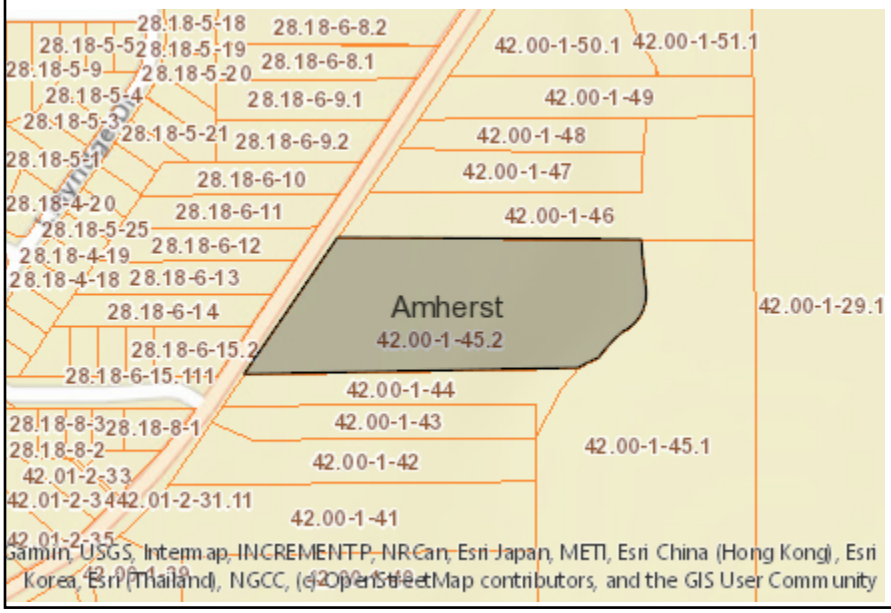
Applicant/Sponsor Name Joe Rubino Date February 13, 2025

Signature Sean Hopkins Title Counsel for Project Sponsor

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

PRINT FORM

EAF Mapper Summary Report



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	837-47
E.2.h.iv [Surface Water Features - Stream Classification]	C
E.2.h.iv [Surface Water Features - Wetlands Name]	NYS Wetland, Federal Waters
E.2.h.iv [Surface Water Features - Wetlands Size]	NYS Wetland (in acres):182.9
E.2.h.iv [Surface Water Features - DEC Wetlands Number]	CC-15

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

E.2.h.v [Impaired Water Bodies]	Yes
E.2.h.v [Impaired Water Bodies - Name and Basis for Listing]	Name - Pollutants - Uses:Ransom Creek, Lower, and tribs – Pathogens;D.O./Oxygen Demand – Recreation;Aquatic Life
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	Yes
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

TOWN OF AMHERST
State Environmental Quality Review
ENVIRONMENTAL ASSESSMENT FORM
-- ADDENDUM --

1. For each applicable category of proposed new structures, including additions to existing structures, provide the following information for all soil types on the project site (*according to Soil Survey of Erie County, NY; Table 11, Building Site Development, pp 294-305):*

Soil Name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
(ElB) Elorna loamy fine sand	cutbanks cave	moderate, wetness	severe: wetness	moderate, wetness	severe: wetness
(CH) Cheektowaga fine sandy loam	too clayey	severe: wetness	severe: wetness	severe: wetness	severe: wetness

2. Is your property located: On Youngs Road between Dodge and Klein Roads? ◘ Yes ☑ No
   On Wehrle Dr. between Spindrift Dr. and Oakwood Rd? □ Yes ☑ No

   If so, the property may be within an area of the Town that is affected by a moratorium on connections to the sanitary sewer system.

3. Are there alternative locations on the site for this project? □ Yes ☑ No

4. Location and size of real property owned by petitioner within one (1) mile of subject proposal:
   N/A

5. Are you aware of current or future plans or intentions by others in the Town of Amherst to develop property within 1000± ft. of the present project request: ☑ Yes □ No

   Describe Potential Future Youngs Road Extension by the Town of Amherst

   (Potential environmental impacts from adjacent or nearby projects undergoing the approval process will receive a coordinated environmental review to determine cumulative effects on common receivers (e.g. traffic and drainage corridors) and other relevant environmental concerns.)

6. Maximum number of vehicular trips to be generated per peak hour upon completion of project 14 (PM peak)
   Source: ITE Manual - Trip Generation

7. Will blasting occur during construction? □ Yes ☑ No

8. Does the project propose to connect and be tributary to the public sanitary sewer system? ☑ Yes □ No

9. Proposed net additional gallons per day (gpd) of sanitary sewer discharge upon completion of project:
   6,160 GPD average flow 26,460 GPD peak flow.

   (Average flows of 2,500 gpd or greater will require an Engineer's Report that includes a detailed downstream sewer capacity analysis and the identification of and commitment to required I/I offset work during peak wastewater flow conditions.)

10. Based on the Town's *2011 Reconnaissance Level Survey of Historic Resources,* is your property 'blue-rated' for historic significance? □ Yes ☑ No

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment A - Negative Declaration Issued by the Town Board pursuant to SEQRA on July 22, 2024

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Amherst
Town of Amherst Planning Department
Erie County, New York

Brian J. Kul
Supervisor

Daniel C. Howard
Planning Dire

Daniel J. Ulatowsk
Assistant Planning

SEQR

NEGATIVE DECLARATION

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency:	Town of Amherst Town Board	**Project**:	Z-2020-15
Address:	5583 Main Street Williamsville, NY 14221 (716) 631-7051	**Date**:	July 22, 2024

This notice is issued pursuant to Part 617 and Local Law #3-82, as amended, of the implementing regulations pertaining to Article 8 (State Environmental Quality Review) of the Environmental Conservation Law.

The Lead Agency has determined that the proposed action described below will not have a significant adverse effect on the environment.

Title of Action: Rezoning Request.

SEQR Status: Type I.

Description of Action: Rezoning of 6.7± acres of land from SA to R-3 to allow for a proposed 16-lot residential subdivision that will consist of 15 detached single-family home lots and a stormwater management lot located in the eastern most portion of the property. A public roadway and a single curb cut onto Dodge Road are proposed. Seventy-five feet of frontage along Dodge Road is proposed to remain as greenspace with the exception of the access roadway. Approximately 2.7± acres of the 6.7± acre site will remain as permanent open space along the north, south, eastern and western boundaries of the parcel.

Location: 1789 Dodge Road, Town of Amherst, Erie County, New York

Petitioner: Joe Rubino

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Reasons Supporting This Determination

Based on information submitted by the applicant, including a Full Environmental Assessment Form (EAF) - Part 1 and Part 2, a complete rezoning application, and concept plan, a preliminary staff analysis was undertaken. Compared to the criteria listed in Section 617.7, all indications are that the proposed rezoning of 6.7± acres of land from Suburban Agriculture (SA) to Residential District Three (R-3) for a proposed 16-lot residential subdivision (for 15 detached single-family homes) and related site improvements will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Town Engineering Department on August 24, 2021 reviewed the application and EAF submitted on August 16, 2021 and had no objection or comments on the proposed rezoning.

2. The project will not result in the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. Permanent open space buffers, including 75 feet along Dodge Road will preserve and enhance natural vegetation. A Landscape Plan shall be required of the applicant upon submittal of a subdivision application for development of the site at which stage all landscape requirements of the Zoning Ordinance will be met. This determination is also based on review of the NYSDEC Environmental Resource Mapper, which shows the site does not contain any significant natural communities, or habitat for rare, threatened or endangered plants or animal species[1].

3. The project is not expected to create any material conflict with the Town of Amherst Bicentennial Comprehensive Plan. The project will comply with all regulations of the Town Zoning Ordinance before the final subdivision plat is approved. The Town Building Department on August 26, 2021 reviewed the application and EAF submitted on August 16, 2021, and has no objection or comments on the proposed rezoning. As described in the Bicentennial Comprehensive Plan, the new development is generally consistent with section 3.3.1 of the Bicentennial Comprehensive Plan for Residential Uses, and in character with the surrounding single-family residential areas.

4. The project is not within an area identified by the State as potentially containing significant cultural or archeological resources, nor will it impair the character or quality of important historical resources.

[1] https://gisservices.dec.ny.gov/gis/erm/, last accessed January 14, 2022

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

5. The project will not impair the character or quality of important aesthetic resources or of existing community or neighborhood character because the proximate land uses within an approximately ¼ mile radius are also single-family detached homes located in the S-A District, R-3 District and CR-3A District; therefore, the project is compatible with surrounding land use.

6. The proposed rezoning to Residential District Three (R-3) for a proposed 16-lot residential subdivision will result in an increase in the use and type of energy. However, the required utilities will be in place to adequately handle the anticipated increase. In addition, development of new single-family dwellings, under either the existing or proposed zoning districts are required to meet the NYS Energy Code for new construction. Therefore, the proposed R-3 rezoning will not cause a significant adverse change in the use of either the quantity or type of energy.

7. A search of NYSDEC data bases (Spill Incidents Database, Remedial Site Database, Bulk Storage Database) did not result in evidence of any known contamination concerns, the rezoning to Residential District Three (R-3) for the proposed 16-lot residential subdivision will not create any hazard to human health.

8. The rezoning from S-A to Residential District Three (R-3) will increase the intensity of use from one single-family dwelling to a total of 15 dwellings. The proposed residential subdivision will be consistent with the scale of surrounding land uses and approximately 1.5 acres of the 6.7-acre site will remain as permanent open space. In addition, there will be no change to existing agricultural, public-open space or recreational resources, as the current land use is not agricultural, or publically-owned open space, or publically-owned recreation resources.

9. The rezoning to Residential District Three (R-3) for the proposed 16-lot residential subdivision will increase the number of people using the site over its previous level of use. However, based on inter-departmental reviews, the existing water, sewer, storm water and street infrastructure have or will have sufficient capacity to serve the proposed 15 single-family dwellings to adequately handle the anticipated increase without significant adverse impact to those existing systems.

10. The rezoning of the subject site will allow for the construction of approximately 15 single-family dwellings, contrasted with 4-6 single-family dwellings that could be allowed under the current S-A zoning designation.

11. Dodge Road is a County collector roadway as stated in the Town's Bicentennial Comprehensive Plan. The Town Traffic Safety Board on September 7, 2021 reviewed the application and EAF submitted on August 16, 2021, and concluded that significant negative traffic impacts are not expected to result from the proposed project.

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12. Coordinated reviews of the project have been undertaken by Town Departments including Building on August 26, 2021, Engineering on August 24, 2021, Highway on May 11, 2021, Traffic/Safety Board on September 7, 2021, Assessor on August 19, 2021, Fire Chiefs' Council on September 10, 2021, and Right-of-Way Agent on August 19, 2021 along with outside agencies including Erie County Department of Environment & Planning on September 23, 2021. These reviews have not identified any significant environmental issues and indicate that the proposal will not have a significant damaging impact on the environment.

13. Issues not specifically mentioned above and/or those not specifically reviewed were not raised by Town departments, outside agencies or the public and are not determined to be causing significant negative environmental impacts.

Gary Palumbo, Associate Planner — 7.23.2024 date

Brian J. Kulpa, Supervisor — 7/29/24 date

GP/ac
X:\Current_Planning\Files\Rezonings\2020\Z-2020-15_(1789_Dodge_Rd)_2020\Z-2020-15_TB Neg Dec__072224.docx
cc: Amherst Town Clerk
Amherst Building Department
ECDEP
NYSDEC
NYSDOT
Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, 5500 Main St., Ste. 343, Williamsville, NY 14221
Joe Rubino, Hopkins Sorgi & McCarthy, PLLC, 5500 Main St., Ste. 343, Williamsville, NY 14221
Christopher Wood, P.E., Carmina Wood Morris, DPC, 487 Main St., Suite 600, Buffalo, NY 14202
Robert C. Walter, 2765 Dodge Rd., E. Amherst, NY 14051

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Attachment B - Jurisdictional Determination issued by the NYSDEC dated March 10, 2021

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7010 I F: (716) 851-7005
www.dec.ny.gov

March 10, 2021

Joe Rubino
Howard Hanna Office
4562 Sheridan Drive
Williamsville, New York 14221

Dear Joe Rubino:

Wetland CC-15
Boundary Delineation
1789 Dodge Road
Town of Amherst, Erie County

This letter serves as notification that I completed an office review of your property at 1789 Dodge Road, parcel #42.00-1-45.2, to determine whether wetlands present within and adjacent to the parcel meet New York State Department of Environmental Conservation (NYSDEC) criteria for state wetlands jurisdiction.

Based on our review, we verified the boundary, delineated by Earth Dimensions, Inc. (EDI), of Wetland CC-15, denoted as "Wetland 1" by EDI. The wetland boundary is identified with pink plastic flagging consecutively numbered from W1-1 through W1-7 and extends generally south to north across the eastern property boundary, as depicted in Figure 6 in EDI's December 2020 Wetland and Waterbodies Delineation Report.

In 1975, the New York State Legislature passed the Freshwater Wetlands Act to preserve and protect wetlands and their functions, such as flood protection and fish and wildlife habitat. Activities that may have a negative impact on the wetlands and their functions, such as construction, filling, draining, clearing vegetation, or polluting, are regulated. Landowners must first obtain permits in order to ensure that no problems result from their proposed activities in the wetland or the regulated 100-foot adjacent area. Contact our Division of Environmental Permits Office for information regarding permit requirements at:

New York State Department of Environmental Conservation
Division of Environmental Permits
270 Michigan Avenue
Buffalo, New York 14203-2915
Telephone: (716) 851-7165

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Locations of wetland flags were recorded with a hand-held Global Positioning System and, therefore, may not be survey-accurate. For precise locations of the boundaries, have the flags surveyed relative to the property boundary. Note that wetland boundaries may change over time and this map does not fix the wetland boundary indefinitely.

If you would like to document the precise boundary of the wetland relative to your property boundary, it is your responsibility to have the wetland boundary surveyed. If you choose to complete a survey, the wetland boundary survey map should be submitted to me for verification. A copy of this Department's Requirements for Wetland Survey and Mapping is enclosed. Please note that a surveyed wetland boundary that has been verified by this Department will be considered valid for **five** years.

Please note that, for the purpose of an Article 24 application, this Department will not require a surveyed wetland boundary map. Instead, you may submit a sketch of the planned work areas on the wetland delineation map and indicate distances between the work areas and the wetland boundary using on-the-ground measurements.

Be advised that the U.S. Army Corps of Engineers may also have wetland jurisdiction irrespective of the Department of Environmental Conservation. For more information, you may contact the Corps at:

United States Army Corps of Engineers Regulatory Branch
1776 Niagara Street
Buffalo, New York 14207
Telephone: (716) 879-4330

If you have any questions about this wetland delineation, please feel free to call me in the Buffalo office at (716) 851-7010.

Sincerely,

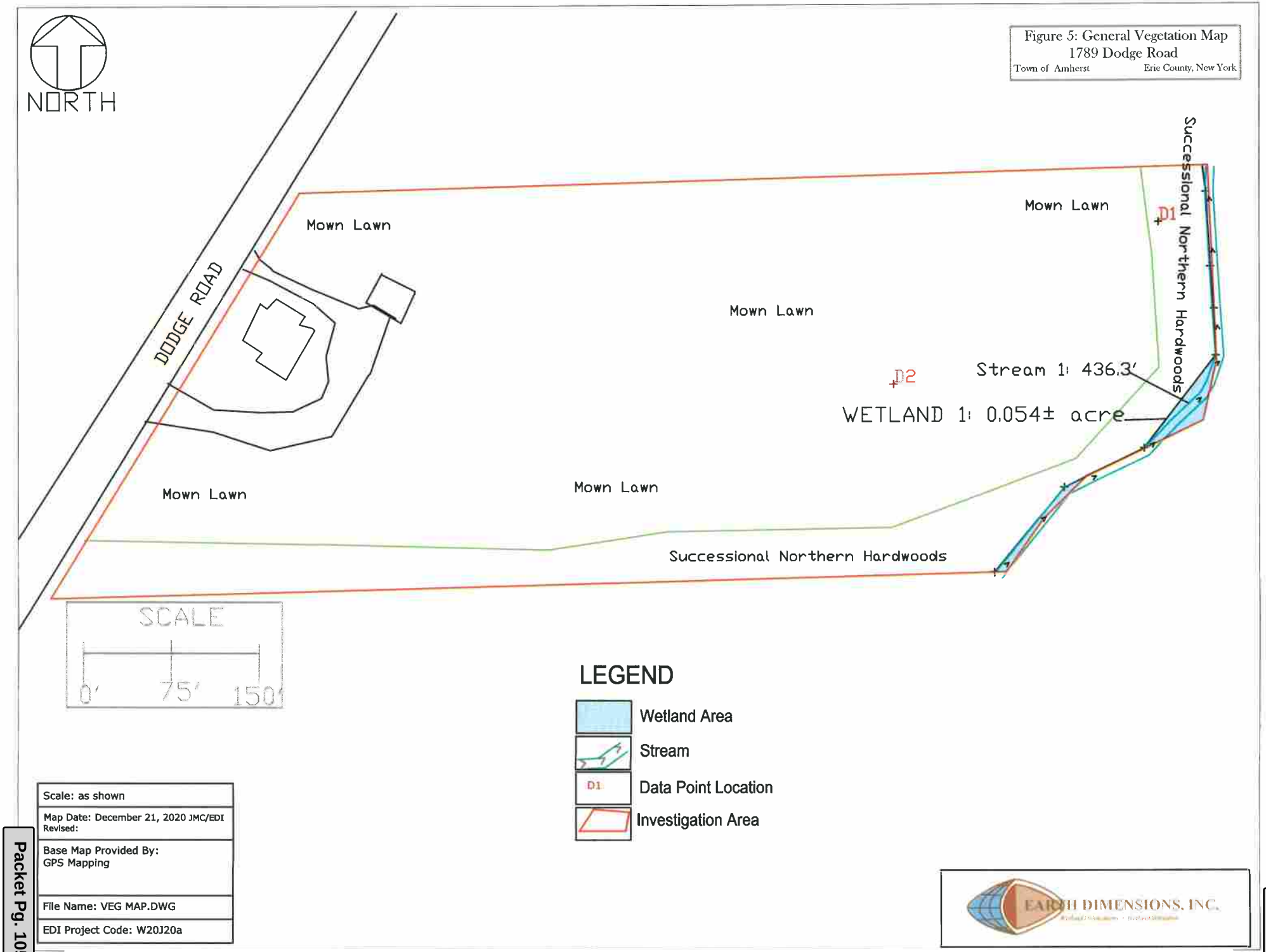
Angela G. Driscoll
Wetlands & Waters Ecologist
Region 9 - Buffalo

AGD:ef

Attach: Survey Requirements
Wetland Information Handout

cc: Ms. Jody Celeste, Earth Dimensions, Inc.
Wetland CC-15 file

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Full Environmental Assessment Form

Part 1 - Project and Setting

Prepared By: Sean W. Hopkins, Esq.
Hopkins Sorgi & McCarthy PLLC
35 California Road, Suite 100
Williamsville, New York 14221
Tel: 716.510-4338
E-mail: shopkins@hsmlegal.com

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Proposed Residential Subdivision		
Project Location (describe, and attach a general location map): 1789 Dodge Road - Town of Amherst - Erie County		
Brief Description of Proposed Action (include purpose or need): The proposed project ("action") consists of a 14 lot residential subdivision for detached single-family homes to be located on approximately 6.7 acres of land located at 1789 Dodge Road ("Project Site") zoned Residential District Three ("R-3") along with all related site improvements. The frontage of the Project Site will consist of Permanent Open Space. The proposed action has been defined broadly to include all required discretionary approvals and permits as well as all proposed site improvements including proposed detached single family homes, a public roadway connecting onto Dodge Road, driveways, lighting, an on-site storm water management system, and all required utility improvements. The project purpose is to develop the Project Site for Single-Family Residential Use in accordance with the existing R-3 zoning classification. It is important to mention that the Town Board previously conducted a coordinated environmental review of the project that resulted in its issuance of a Negative Declaration on July 22, 2021. A copy of the Negative Declaration issued by the Town Board is provided at Attachment "A".		
Name of Applicant/Sponsor: Joe Rubino c/o Sean Hopkins, Esq., Hopkins Sorgi & McCarthy PLLC	Telephone: 716.510-4338 E-Mail: shopkins@hsmlegal.com	
Address: 35 California Drive, Suite 100		
City/PO: Williamsville	State: New York	Zip Code: 14221
Project Contact (if not same as sponsor; give name and title/role):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Same as Project Sponsor	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	Dedication of Public Roadway & PIPs	To be Determined
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Preliminary Plat and Final Plat Approval	February 14, 2025
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☑Yes ☐No	Engineering Dept. - Stormwater Permit; Building Dept. - Demolition Permit and Building Permits	To be Determined
e. County agencies ☑Yes ☐No	ECDPW - Highway Work Permit; ECWA - Water; ECHD - Sewer and Water	To be Determined
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	NYSDEC - Wetland Permit, SPDES Permit and DSCA Approval	Wetland Permit Application is pending
h. Federal agencies ☐Yes ☑No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? The Town has adopted a LWRP ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☑Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s): [Note: The proposed action will not have any adverse impacts on the West Erie Canal Corridor.]

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

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C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Residential District Three ("R-3")

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site?

C.4. Existing community services.

a. In what school district is the project site located? Williamsville Central School District

b. What police or other public protection forces serve the project site?
Town of Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?
Volunteer Fire Department

d. What parks serve the project site?
There are various Town parks that will be accessible to the future residents of the proposed residential subdivision.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Residential subdivision consisting of detached single-family homes on individual lots with public roadway.

b. a. Total acreage of the site of the proposed action? 6.7 acres
b. Total acreage to be physically disturbed? 4.55 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 6.7 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☑ Yes ☐ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? 17
iv. Minimum and maximum proposed lot sizes? Minimum 8,450 sq. ft. Maximum 14,700

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

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f. Does the project include new residential uses? ☑ Yes ☐ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	14			
At completion of all phases	14			

g. Does the proposed action include new non-residential construction (including expansions)? ☐ Yes ☑ No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑ Yes ☐ No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑ Other specify: Runoff from impervious surfaces on the Project Site including roof of homes, roadway and driveways.

iii. If other than water, identify the type of impounded/contained liquids and their source. Not Applicable

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: .4 acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): Earth fill.

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐ Yes ☑ No

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☐ No

If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐ Yes ☐ No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): There is a small wetland with a size of 0.054 acres on the eastern portion of the Project Site, and 436.3 linear feet of a jurisdictional ditch per the wetland delineation of the Project Site prepared by Earth Dimensions, Inc. dated December 21, 2020. The small wetland area is subject to the jurisdiction of the NYSDEC and USACE.

A copy of the wetland determination letter issued by the New York State Environment Environmental Conservation dated March 10, 2021 is provided at Attachment "B" . The Project Sponsor is proposing to impact 0.08 acres of impacts to the 100 ft. Adjacent Area of NYSDEC Freshwater Wetland CC-15.

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ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☐ No
If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐ No
If Yes:

- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use, or create a new demand for water? ☑ Yes ☐ No
If Yes:

i. Total anticipated water usage/demand per day: 6,160 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑ Yes ☐ No
If Yes:

- Name of district or service area: ECWA
- Does the existing public water supply have capacity to serve the proposal? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No
- Do existing lines serve the project site? ☐ Yes ☑ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☑ No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 6,160 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
Sanitary wastewater.

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑ Yes ☐ No
If Yes:

- Name of wastewater treatment plant to be used: Town of Amherst Waste Water Treatment Plant on Tonawanda Creek Road.
- Name of district: Town of Amherst Consolidated Sanitary Sewer District
- Does the existing wastewater treatment plant have capacity to serve the project? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No

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- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☑ Yes ☐ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑ Yes ☐ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or 1.57 acres (impervious surface)

_____ Square feet or 6.7 acres (parcel size)

ii. Describe types of new point sources. Stormwater runoff from impervious surfaces on the Project Site.

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

On-site stormwater management system.

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☑ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☑ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☑ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

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h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☐No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☐No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7:00 am to 7:00 pm
- Saturday: 7:00 am to 5:00 pm
- Sunday: As needed
- Holidays: Not Applicable

ii. During Operations:

- Monday - Friday: Not Applicable
- Saturday: _____
- Sunday: _____
- Holidays: _____

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m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

i. Provide details including sources, time of day and duration:

Construction activities in furtherance of the construction of the proposed residential subdivision will result in temporary unavoidable adverse noise impacts during daytime hours. The project will not result in any long-term adverse noise impacts.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: _____

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

There will be lighting provided within the public right-of-way per Town's standards for a residential street.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____
- Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____
- Operation: _____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☐ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

The properties in the vicinity of the Project Site have various zoning classifications - The principal use of the nearby parcels consists of single-family homes on individual lots.

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	.3	2.35	2.05
• Forested	1.9	1.60	(0.3)
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	3.45	0	(3.45)
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0.054	0.054	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: Lawn/Permanent Open Space	1.0	2.7	1.7

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No
If Yes,
i. Identify Facilities:

_____
_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No
If Yes:
i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

_____
_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No
If Yes:
i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____
_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____
_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No

☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____
☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____

_____
_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No
If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____
_____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☐

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? > 5 ft. feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site:

Elnora Loamy Fine Sand	53 %
Wayland Soils Complex	28 %
Cheektowaga Fine Sandy Loam	19 %

d. What is the average depth to the water table on the project site? Average: 5 feet

e. Drainage status of project site soils:

☐ Well Drained:	_____% of site
☐ Moderately Well Drained:	53 % of site
☐ Poorly Drained	47 % of site

f. Approximate proportion of proposed action site with slopes:

☑ 0-10%:	100 % of site
☐ 10-15%:	_____% of site
☐ 15% or greater:	_____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 837-47 Classification C
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name NYS Wetland, Federal Waters, Federal Waters, Fe... Approximate Size NYS Wetland (in a...
- Wetland No. (if regulated by DEC) CC-15

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☑ Yes ☐ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____
Name - Pollutants - Uses:Ransom Creek, Lower, and tribs – Pathogens;D.O./Oxygen Demand – Recreation;Aquatic Life

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☑ Yes ☐ No

k. Is the project site in the 500-year Floodplain? ☑ Yes ☐ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

m. Identify the predominant wildlife species that occupy or use the project site: Typical suburban speices

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No
If Yes:
i. Species and listing (endangered or threatened): _____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No
If Yes:
i. Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Joe Rubino Date March 21, 2025

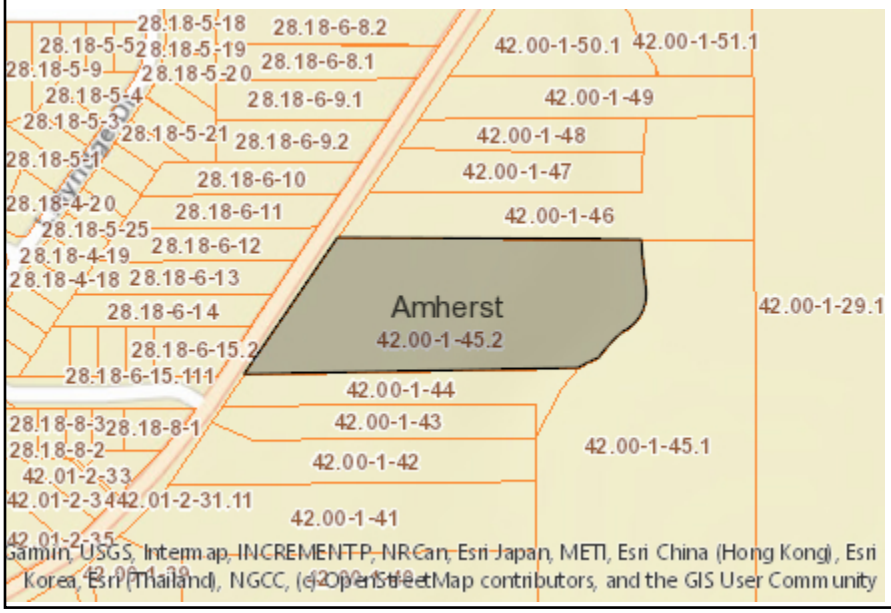
Signature _____ Title Counsel for Project Sponsor

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

PRINT FORM

EAF Mapper Summary Report

Monday, December 21, 2020 3:3[illegible] P.M.



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	837-47
E.2.h.iv [Surface Water Features - Stream Classification]	C
E.2.h.iv [Surface Water Features - Wetlands Name]	NYS Wetland, Federal Waters
E.2.h.iv [Surface Water Features - Wetlands Size]	NYS Wetland (in acres):182.9
E.2.h.iv [Surface Water Features - DEC Wetlands Number]	CC-15

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

E.2.h.v [Impaired Water Bodies]	Yes
E.2.h.v [Impaired Water Bodies - Name and Basis for Listing]	Name - Pollutants - Uses:Ransom Creek, Lower, and tribs – Pathogens;D.O./Oxygen Demand – Recreation;Aquatic Life
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	Yes
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

TOWN OF AMHERST
State Environmental Quality Review
ENVIRONMENTAL ASSESSMENT FORM
-- ADDENDUM --

1. For each applicable category of proposed new structures, including additions to existing structures, provide the following information for all soil types on the project site (*according to Soil Survey of Erie County, NY; Table 11, Building Site Development, pp 294-305):*

Soil Name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
(ElB) Elorna loamy fine sand	cutbanks cave	moderate, wetness	severe: wetness	moderate, wetness	severe: wetness
(CH) Cheektowaga fine sandy loam	too clayey	severe: wetness	severe: wetness	severe: wetness	severe: wetness

2. Is your property located: On Youngs Road between Dodge and Klein Roads? ☐ Yes ☑ No
   On Wehrle Dr. between Spindrift Dr. and Oakwood Rd? ☐ Yes ☑ No

   If so, the property may be within an area of the Town that is affected by a moratorium on connections to the sanitary sewer system.

3. Are there alternative locations on the site for this project? ☐ Yes ☑ No

4. Location and size of real property owned by petitioner within one (1) mile of subject proposal:
   N/A

5. Are you aware of current or future plans or intentions by others in the Town of Amherst to develop property within 1000± ft. of the present project request: ☑ Yes ☐ No

   Describe Potential Future Youngs Road Extension by the Town of Amherst

   (Potential environmental impacts from adjacent or nearby projects undergoing the approval process will receive a coordinated environmental review to determine cumulative effects on common receivers (e.g. traffic and drainage corridors) and other relevant environmental concerns.)

6. Maximum number of vehicular trips to be generated per peak hour upon completion of project 14 (PM peak)
   Source: ITE Manual - Trip Generation

7. Will blasting occur during construction? ☐ Yes ☑ No

8. Does the project propose to connect and be tributary to the public sanitary sewer system? ☑ Yes ☐ No

9. Proposed net additional gallons per day (gpd) of sanitary sewer discharge upon completion of project:
   6,160 GPD average flow 26,460 GPD peak flow.

   (Average flows of 2,500 gpd or greater will require an Engineer's Report that includes a detailed downstream sewer capacity analysis and the identification of and commitment to required I/I offset work during peak wastewater flow conditions.)

10. Based on the Town's *2011 Reconnaissance Level Survey of Historic Resources,* is your property 'blue-rated' for historic significance? ☐ Yes ☑ No

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment A - Negative Declaration Issued by the Town Board pursuant to SEQRA on July 22, 2024

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Amherst
Town of Amherst Planning Department
Erie County, New York

Brian J. Kul
Supervisor

Daniel C. Howard
Planning Dire

Daniel J. Ulatowsk
Assistant Planning

SEQR

NEGATIVE DECLARATION

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency:	Town of Amherst Town Board	**Project**:	Z-2020-15
Address:	5583 Main Street Williamsville, NY 14221 (716) 631-7051	**Date**:	July 22, 2024

This notice is issued pursuant to Part 617 and Local Law #3-82, as amended, of the implementing regulations pertaining to Article 8 (State Environmental Quality Review) of the Environmental Conservation Law.

The Lead Agency has determined that the proposed action described below will not have a significant adverse effect on the environment.

Title of Action: Rezoning Request.

SEQR Status: Type I.

Description of Action: Rezoning of 6.7± acres of land from SA to R-3 to allow for a proposed 16-lot residential subdivision that will consist of 15 detached single-family home lots and a stormwater management lot located in the eastern most portion of the property. A public roadway and a single curb cut onto Dodge Road are proposed. Seventy-five feet of frontage along Dodge Road is proposed to remain as greenspace with the exception of the access roadway. Approximately 2.7± acres of the 6.7± acre site will remain as permanent open space along the north, south, eastern and western boundaries of the parcel.

Location: 1789 Dodge Road, Town of Amherst, Erie County, New York

Petitioner: Joe Rubino

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Reasons Supporting This Determination

Based on information submitted by the applicant, including a Full Environmental Assessment Form (EAF) - Part 1 and Part 2, a complete rezoning application, and concept plan, a preliminary staff analysis was undertaken. Compared to the criteria listed in Section 617.7, all indications are that the proposed rezoning of 6.7± acres of land from Suburban Agriculture (SA) to Residential District Three (R-3) for a proposed 16-lot residential subdivision (for 15 detached single-family homes) and related site improvements will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Town Engineering Department on August 24, 2021 reviewed the application and EAF submitted on August 16, 2021 and had no objection or comments on the proposed rezoning.

2. The project will not result in the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. Permanent open space buffers, including 75 feet along Dodge Road will preserve and enhance natural vegetation. A Landscape Plan shall be required of the applicant upon submittal of a subdivision application for development of the site at which stage all landscape requirements of the Zoning Ordinance will be met. This determination is also based on review of the NYSDEC Environmental Resource Mapper, which shows the site does not contain any significant natural communities, or habitat for rare, threatened or endangered plants or animal species[1].

3. The project is not expected to create any material conflict with the Town of Amherst Bicentennial Comprehensive Plan. The project will comply with all regulations of the Town Zoning Ordinance before the final subdivision plat is approved. The Town Building Department on August 26, 2021 reviewed the application and EAF submitted on August 16, 2021, and has no objection or comments on the proposed rezoning. As described in the Bicentennial Comprehensive Plan, the new development is generally consistent with section 3.3.1 of the Bicentennial Comprehensive Plan for Residential Uses, and in character with the surrounding single-family residential areas.

4. The project is not within an area identified by the State as potentially containing significant cultural or archeological resources, nor will it impair the character or quality of important historical resources.

[1] https://gisservices.dec.ny.gov/gis/erm/, last accessed January 14, 2022

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

5. The project will not impair the character or quality of important aesthetic resources or of existing community or neighborhood character because the proximate land uses within an approximately ¼ mile radius are also single-family detached homes located in the S-A District, R-3 District and CR-3A District; therefore, the project is compatible with surrounding land use.

6. The proposed rezoning to Residential District Three (R-3) for a proposed 16-lot residential subdivision will result in an increase in the use and type of energy. However, the required utilities will be in place to adequately handle the anticipated increase. In addition, development of new single-family dwellings, under either the existing or proposed zoning districts are required to meet the NYS Energy Code for new construction. Therefore, the proposed R-3 rezoning will not cause a significant adverse change in the use of either the quantity or type of energy.

7. A search of NYSDEC data bases (Spill Incidents Database, Remedial Site Database, Bulk Storage Database) did not result in evidence of any known contamination concerns, the rezoning to Residential District Three (R-3) for the proposed 16-lot residential subdivision will not create any hazard to human health.

8. The rezoning from S-A to Residential District Three (R-3) will increase the intensity of use from one single-family dwelling to a total of 15 dwellings. The proposed residential subdivision will be consistent with the scale of surrounding land uses and approximately 1.5 acres of the 6.7-acre site will remain as permanent open space. In addition, there will be no change to existing agricultural, public-open space or recreational resources, as the current land use is not agricultural, or publically-owned open space, or publically-owned recreation resources.

9. The rezoning to Residential District Three (R-3) for the proposed 16-lot residential subdivision will increase the number of people using the site over its previous level of use. However, based on inter-departmental reviews, the existing water, sewer, storm water and street infrastructure have or will have sufficient capacity to serve the proposed 15 single-family dwellings to adequately handle the anticipated increase without significant adverse impact to those existing systems.

10. The rezoning of the subject site will allow for the construction of approximately 15 single-family dwellings, contrasted with 4-6 single-family dwellings that could be allowed under the current S-A zoning designation.

11. Dodge Road is a County collector roadway as stated in the Town's Bicentennial Comprehensive Plan. The Town Traffic Safety Board on September 7, 2021 reviewed the application and EAF submitted on August 16, 2021, and concluded that significant negative traffic impacts are not expected to result from the proposed project.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

12. Coordinated reviews of the project have been undertaken by Town Departments including Building on August 26, 2021, Engineering on August 24, 2021, Highway on May 11, 2021, Traffic/Safety Board on September 7, 2021, Assessor on August 19, 2021, Fire Chiefs' Council on September 10, 2021, and Right-of-Way Agent on August 19, 2021 along with outside agencies including Erie County Department of Environment & Planning on September 23, 2021. These reviews have not identified any significant environmental issues and indicate that the proposal will not have a significant damaging impact on the environment.

13. Issues not specifically mentioned above and/or those not specifically reviewed were not raised by Town departments, outside agencies or the public and are not determined to be causing significant negative environmental impacts.

Gary Palumbo, Associate Planner — 7.23.2024 date

Brian J. Kulpa, Supervisor — 7/29/24 date

GP/ac
X:\Current_Planning\Files\Rezonings\2020\Z-2020-15_(1789_Dodge_Rd)_2020\Z-2020-15_TB Neg Dec__072224.docx
cc: Amherst Town Clerk
Amherst Building Department
ECDEP
NYSDEC
NYSDOT
Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, 5500 Main St., Ste. 343, Williamsville, NY 14221
Joe Rubino, Hopkins Sorgi & McCarthy, PLLC, 5500 Main St., Ste. 343, Williamsville, NY 14221
Christopher Wood, P.E., Carmina Wood Morris, DPC, 487 Main St., Suite 600, Buffalo, NY 14202
Robert C. Walter, 2765 Dodge Rd., E. Amherst, NY 14051

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment B - Jurisdictional Determination issued by the NYSDEC dated March 10, 2021

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7010 I F: (716) 851-7005
www.dec.ny.gov

March 10, 2021

Joe Rubino
Howard Hanna Office
4562 Sheridan Drive
Williamsville, New York 14221

Dear Joe Rubino:

Wetland CC-15
Boundary Delineation
1789 Dodge Road
Town of Amherst, Erie County

This letter serves as notification that I completed an office review of your property at 1789 Dodge Road, parcel #42.00-1-45.2, to determine whether wetlands present within and adjacent to the parcel meet New York State Department of Environmental Conservation (NYSDEC) criteria for state wetlands jurisdiction.

Based on our review, we verified the boundary, delineated by Earth Dimensions, Inc. (EDI), of Wetland CC-15, denoted as "Wetland 1" by EDI. The wetland boundary is identified with pink plastic flagging consecutively numbered from W1-1 through W1-7 and extends generally south to north across the eastern property boundary, as depicted in Figure 6 in EDI's December 2020 Wetland and Waterbodies Delineation Report.

In 1975, the New York State Legislature passed the Freshwater Wetlands Act to preserve and protect wetlands and their functions, such as flood protection and fish and wildlife habitat. Activities that may have a negative impact on the wetlands and their functions, such as construction, filling, draining, clearing vegetation, or polluting, are regulated. Landowners must first obtain permits in order to ensure that no problems result from their proposed activities in the wetland or the regulated 100-foot adjacent area. Contact our Division of Environmental Permits Office for information regarding permit requirements at:

New York State Department of Environmental Conservation
Division of Environmental Permits
270 Michigan Avenue
Buffalo, New York 14203-2915
Telephone: (716) 851-7165

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Locations of wetland flags were recorded with a hand-held Global Positioning System and, therefore, may not be survey-accurate. For precise locations of the boundaries, have the flags surveyed relative to the property boundary. Note that wetland boundaries may change over time and this map does not fix the wetland boundary indefinitely.

If you would like to document the precise boundary of the wetland relative to your property boundary, it is your responsibility to have the wetland boundary surveyed. If you choose to complete a survey, the wetland boundary survey map should be submitted to me for verification. A copy of this Department's Requirements for Wetland Survey and Mapping is enclosed. Please note that a surveyed wetland boundary that has been verified by this Department will be considered valid for **five** years.

Please note that, for the purpose of an Article 24 application, this Department will not require a surveyed wetland boundary map. Instead, you may submit a sketch of the planned work areas on the wetland delineation map and indicate distances between the work areas and the wetland boundary using on-the-ground measurements.

Be advised that the U.S. Army Corps of Engineers may also have wetland jurisdiction irrespective of the Department of Environmental Conservation. For more information, you may contact the Corps at:

United States Army Corps of Engineers Regulatory Branch
1776 Niagara Street
Buffalo, New York 14207
Telephone: (716) 879-4330

If you have any questions about this wetland delineation, please feel free to call me in the Buffalo office at (716) 851-7010.

Sincerely,

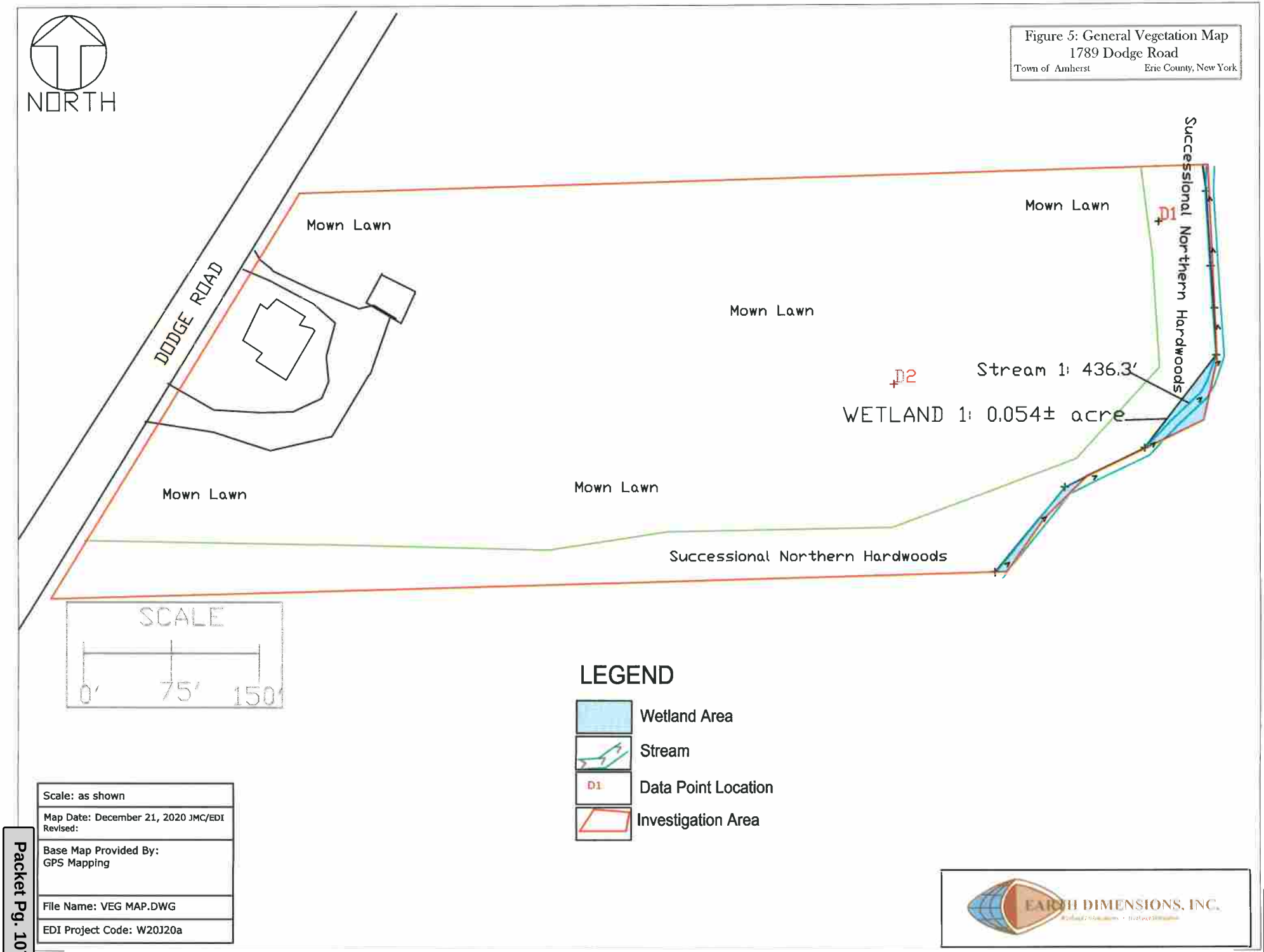
Angela G. Driscoll
Wetlands & Waters Ecologist
Region 9 - Buffalo

AGD:ef

Attach: Survey Requirements
Wetland Information Handout

cc: Ms. Jody Celeste, Earth Dimensions, Inc.
Wetland CC-15 file

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7010 I F: (716) 851-7005
www.dec.ny.gov

March 10, 2021

Joe Rubino
Howard Hanna Office
4562 Sheridan Drive
Williamsville, New York 14221

Dear Joe Rubino:

Wetland CC-15
Boundary Delineation
1789 Dodge Road
Town of Amherst, Erie County

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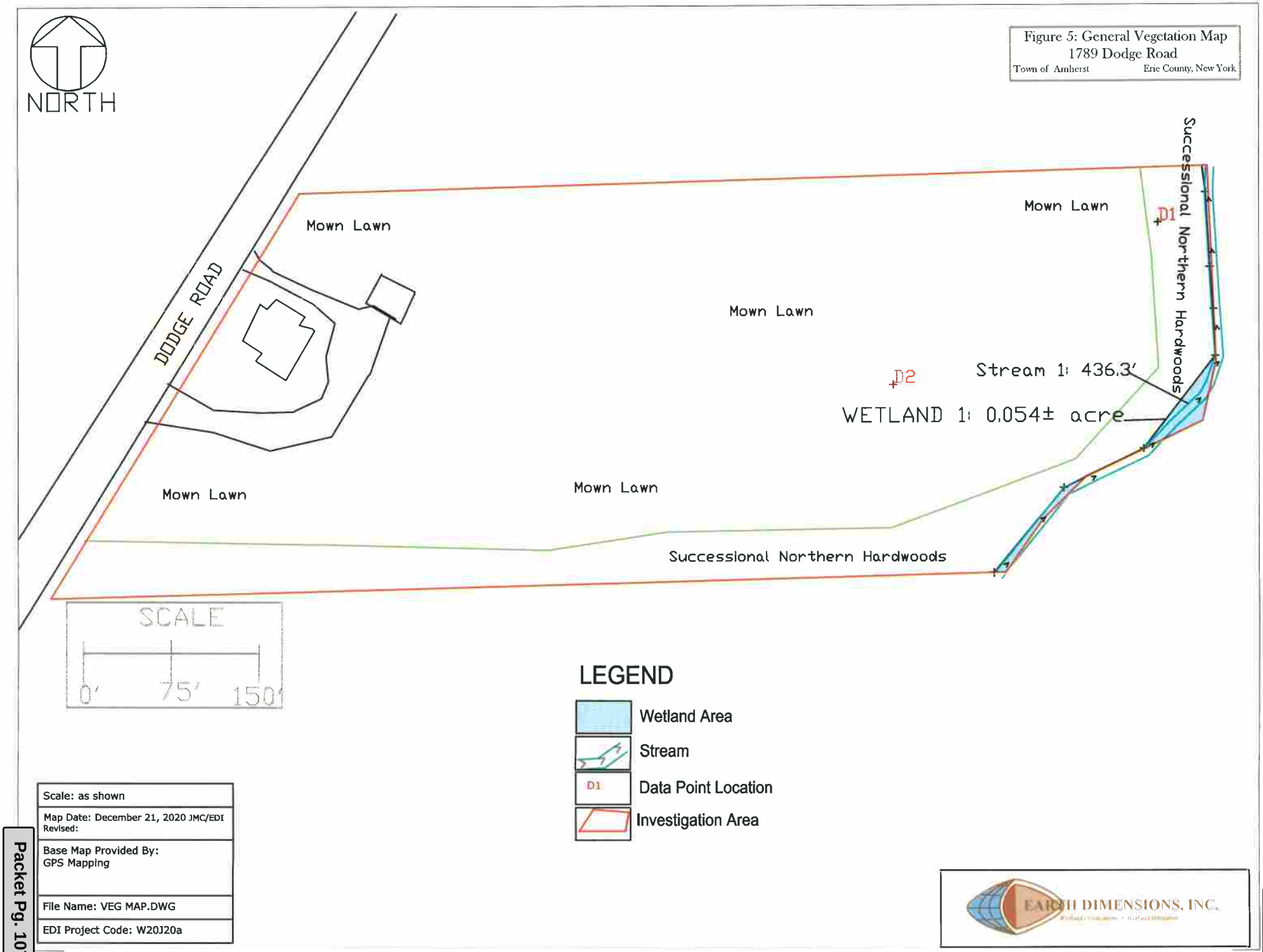

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CARMINA WOOD DESIGN

STORMWATER POLLUTION PREVENTION PLAN
for
CONSTRUCTION ACTIVITIES

At

Single Family Subdivision
1789 Dodge Road
Town of Amherst, Erie County, New York

Prepared for

Joesph Rubino

5500 Main Street, Suite 343
Williamsville, New York, 14221

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

Telephone: (716) 842-3165
Fax: (716) 842-0263

March 2025



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

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101 SCOPE

A. **PURPOSE:** Joseph Rubino (JR) has placed an emphasis on following the New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Stormwater Discharges from Construction Activity governing storm water discharges during construction, and in accordance with erosion control practices. The Contractor's participation in this program is mandatory and its non-compliance is subject to various remedies, including without limitation, monetary set-offs, withholding payments; reimbursement for costs, expenses (including reasonable attorney's fees), fines and civil penalties incurred by JR; and/or liquidated damages. This section provides a descriptive explanation of JR's Storm Water Pollution Prevention Program and required Contractor participation.

The Engineer of record for this project certifies that this SWPPP meets the requirements and is in compliance with the New York State Stormwater Management Design Manual and latest NYSDEC Phase II stormwater regulation requirements.

B. **SPDES General Permit for Stormwater Discharges from Construction Activity:** Regulations promulgated by the NYSDEC to regulate the discharge of storm water from construction activities on sites where more than one (1) acre of soil is disturbed. One of the ways to comply with these regulations for affected sites is to request coverage under the General Permit for Construction Activities for New York State. In order to use the General Permit, a Notice of Intent (NOI) form must be completed and submitted to the NYSDEC and a Storm Water Pollution Prevention Plan (SWPPP) for the site must be prepared and followed during the construction activities.

Approval from a regulated, traditional land use control MS4:

1. An **owner or operator** of a construction activity that is not subject to the requirements of a regulated, traditional land use control MS4 must first develop a SWPPP in accordance with all applicable requirements of this permit and then submit a completed NOI form to the NYSDEC.

2. An **owner or operator** of a construction activity that is subject to the requirements of a regulated, traditional land use control MS4 must first develop a SWPPP in accordance with all applicable requirements of this permit and then have its SWPPP reviewed and accepted by the MS4 prior to submitting the NOI to the NYSDEC. The **owner or operator** shall have the "MS4 SWPPP Acceptance" form signed by the principal executive officer or ranking elected official from the regulated, traditional land use control MS4, or by a duly authorized representative of that person, and then submit that form along with the NOI to the address referenced under "Notice of Intent (NOI) Submittal".

C. **RESPONSIBILITIES OF THE CONTRACTOR:** The Contractor shall manage the discharge of storm water from the site in accordance with the NYSDEC General Permit for Construction Activities conditions and the following provisions of this section. The Operator shall be responsible for conducting the storm water management practices in accordance with the permit. The Contractor shall be responsible for providing **qualified inspectors** to conduct the inspections required by the SWPPP. The Contractor shall be responsible for any enforcement action taken

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or imposed by federal, state, or local agencies, including the cost of fines, construction delays, and remedial actions resulting from the Contractor's failure to comply with the permit provisions. It shall be the responsibility of the Contractor to make any changes to the SWPPP necessary when the Contractor or any of his subcontractors elects to use borrow or fill or material storage sites, either contiguous to or remote from the construction site, when such sites are used solely for this construction site. Such sites are considered to be part of the construction site covered by the permit and this SWPPP. Off-site borrow, fill, or material storage sites which are used for multiple construction projects are not subject to this requirement, unless specifically required by state or local jurisdictional entity regulations. The Contractor should consider this requirement in negotiating with earthwork subcontractors, since the choice of an off-site borrow, fill, or material storage site may impact their duty to implement, make changes to, and perform inspections required by the SWPPP for the site.

D. **NOTICE OF INTENT:** The Operator has petitioned the NYSDEC for coverage under the storm water discharges during construction at this site to be covered by the SPDES General Permit for Construction Activity for the State of New York. A Notice of Intent (NOI) for coverage under this permit has been filed by the Operator. The SWPPP must be prepared prior to submittal of the NOI form. The Operator will require the Contractor to be a co-permittee with the Operator. The Contractor will be required to maintain the NOI at the construction site along with any building permits. Construction work can begin 5 business days after the submittal of the eNOI. The MS4 SWPPP Acceptance Form must also be submitted along with the SWPPP.

E. **CONTRACTOR CERTIFICATION & TRAINING:** Proof of Training/Certification of the Contractor's designated individual shall be kept on site at all times.

F. **REQUIREMENTS FOR THE GENERAL CONTRACTOR AND SUBCONTRACTOR(S):** The General Contractor and Subcontractor(s) shall sign the "Contractor's Certification Statement" (located in the Appendix of this report) verifying they have been instructed on how to comply with and fully understand the requirements of the SPDES General Permit for Construction Activity for the State of New York and the SWPPP. These certifications must be signed, by a responsible corporate officer or other party meeting the "Signatory Requirements" of the SPDES General Permit, on behalf of each entity, prior to the beginning of any construction activities.

G. **STORM WATER POLLUTION PREVENTION PROGRAM LOCATION REQUIREMENTS:** The SWPPP is meant to be a working document that shall be maintained at the site of the Construction Activities at all times throughout the project, shall be readily available upon request by the Operator's personnel or NYSDEC or any other agency with regulatory authority over storm water issues, and shall be kept on-site until the site complies with the Final Stabilization section of this document. A sign or other notice must be posted near the main entrance of the construction site which contains a completed NOI, the location of the SWPPP and the name and phone number of a contact person responsible for scheduling SWPPP viewing times, and any other state specific requirements.

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H. **INSPECTIONS AND RECORD-KEEPING:**

A. <u>General Construction Site Inspection and Maintenance Requirements</u>

1. The **owner or operator** must ensure that all erosion and sediment control practices and all post-construction stormwater management practices identified in the SWPPP are maintained in effective operating condition at all times.

2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York, or protect the public health and safety and/or the environment.

B. <u>Owner or operator Maintenance Inspection Requirements</u>

1. The **owner or operator** shall inspect, in accordance with the requirements in the most current version of the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, the erosion and sediment controls identified in the SWPPP to ensure that they are being maintained in effective operating condition at all times.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the **owner or operator** can stop conducting the maintenance inspections. The **owner or operator** shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of the General Permit as soon as soil disturbance activities resume.

3. For construction sites where soil disturbance activities have been shut down with partial project completion, the **owner or operator** can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. <u>Qualified inspector Inspection Requirements</u>

The **owner or operator** shall have a **qualified inspector** conduct site inspections in conformance with the following requirements:

Note: The **trained contractor** identified in Part III.A.6 of the General Permit **cannot** conduct the **qualified inspector** site inspections unless they meet the **qualified inspector** qualifications included in Appendix A of the General Permit. In order to perform these inspections, the trained contractor would have to be a:

- Licensed Professional Engineer,

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- Certified Professional in Erosion and Sediment Control (CPESC),
- Registered Landscape Architect, or
- Someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity.

1. A **qualified inspector** shall conduct site inspections for all construction activities identified in Tables 1 and 2 of Appendix B of the General Permit, with the exception of:

   a. The construction of a single family residential subdivision with 25% or less impervious cover at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C of the General Permit and not directly discharging to one of the 303(d) segments listed in Appendix E of the General Permit;

   b. The construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E of the General Permit;

   c. Construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and

   d. Construction activities located in the watersheds identified in Appendix D of the General Permit that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land.

2. Unless otherwise notified by the Department, the **qualified inspector** shall conduct site inspections in accordance with the following timetable:

   a. For construction sites where soil disturbance activities are on-going, the **qualified inspector** shall conduct a site inspection at least once every seven (7) calendar days.

   b. For construction sites where soil disturbance activities are on-going and the **owner or operator** has received authorization in accordance with Part II.C.3 of the General Permit to **disturb greater than five (5) acres** of soil at any one time, the **qualified inspector** shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

   c. For construction sites where soil disturbance activities have been **temporarily suspended (e.g. winter shutdown) and temporary stabilization measures**

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have been applied to all disturbed areas, the **qualified inspector** shall conduct a site inspection at least once every thirty (30) calendar days. The **owner or operator** shall notify the Regional Office stormwater contact person (see contact information in Appendix F of the General Permit) or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the MS4 (provided the MS4 is not the **owner or operator** of the construction activity) in writing prior to reducing the frequency of inspections.

d. For construction sites where **soil disturbance activities have been shut down with partial project completion**, the **qualified inspector** can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The **owner or operator** shall notify the Regional Office stormwater contact person or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the MS4 (provided the MS4 is not the **owner or operator** of the construction activity) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the **owner or operator** shall have the **qualified inspector** perform a final inspection and certify that all disturbed areas have achieved final stabilization, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The NOT shall then be signed by the MS4 and the **owner or operator** shall then submit the completed NOT form to the address in Part II.A.1 of the General Permit.

3. At a minimum, the **qualified inspector** shall inspect all erosion and sediment control practices to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved final stabilization, all points of discharge to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site, and all points of discharge from the construction site.

4. The **qualified inspector** shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

   a. Date and time of inspection;

   b. Name and title of person(s) performing inspection;

   c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;

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d. A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;

e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody;

f. Identification of all erosion and sediment control practices that need repair or maintenance;

g. Identification of all erosion and sediment control practices that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;

h. Description and sketch of areas that are disturbed at the time of the inspection and areas that have been stabilized (temporary and/or final) since the last inspection;

i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;

j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s); and

k. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The **qualified inspector** shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The **qualified inspector** shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The **qualified inspector** shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

5. Within one business day of the completion of an inspection, the **qualified inspector** shall notify the **owner or operator** and appropriate contractor or subcontractor identified in Part III.A.6. of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.

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6. All inspection reports shall be signed by the **qualified inspector**. Pursuant to Part II.C.2 of the General Permit, the inspection reports shall be maintained on site with the SWPPP. Copies of the inspection reports shall also be provided to the MS4 electronically.

Record Retention - The **owner or operator** shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the site achieves final stabilization. This period may be extended by the Department, in its sole discretion, at any time upon written notification.

I. **SWPPP MODIFICATIONS:** The inspection report should also identify if any revisions to the SWPPP are warranted due to unexpected conditions. The SWPPP is meant to be a dynamic working guide that is to be kept current and amended whenever there is a change in design, construction, operation, or maintenance at the construction site that has or could have a significant effect on the discharge of pollutants or when the plan proves to be ineffective in eliminating or significantly minimizing pollutant discharges. The Contractor's failure to modify or report deficiencies to the Operator will result in the Contractor being liable for fines and construction delays resulting from any federal, state, or local agency enforcement action.

J. **FINAL STABILIZATION AND TERMINATION OF PERMIT COVERAGE:** A site can be considered finally stabilized when all soil disturbing activities have been completed and a uniform perennial vegetative cover with a density of **85%** for the unpaved areas and areas not covered by permanent structures has been established or equivalent permanent stabilization measures have been established and the facility no longer discharges storm water associated with construction activities and a Notice of Termination (NOT) form filed by the Operator(s) with the NYSDEC. The Operator's Project Manager must complete the NOT. The NOT must be signed by the signatory (or equivalent position) on the NOI, and the qualified inspector, and must be submitted to the MS4 for signature. The MS4 may require a final inspection before signing the NOI. The owner must subsequently submit to DEC once the MS4 has signed NOI. The Operator's Project Manager must provide a completed copy of the NOT to the Contractor for inclusion in the SWPPP, which will then be optically scanned into the final SWPPP document as required. This filing terminates coverage under the General Permit and terminates the Contractor's responsibility to implement the SWPPP, but the requirements of the SWPPP, including periodic inspections, must be continued until the NOT is filed. The **owner or operator** shall also have the **qualified inspector** perform a final site inspection prior to submitting the NOT to the Department. Final payment and/or the release of retainage may be withheld until all provisions of the SWPPP have been submitted, completed and accepted by the Operator.

102 PROJECT NAME AND LOCATION

Dodge Road Single Family Subdivision

Dodge Road

Town of Amherst, County of Erie, New York

Easting: -78.7281

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Northing: 43.0301

Estimated Area of Site ≈ 6.7 acres

Estimated Area to be disturbed by Construction Activities ≈ 5.6 acres

A general location map is included as Appendix A.

103 OPERATOR'S NAME AND ADDRESS

Joseph Rubino

5500 Main Street, Suite 343

Williamsville, New York

Contact Person:

Telephone: 716-510-4338

104 PROJECT DESCRIPTION

This project is a development of a 6.71 acre site located on the east side of Dodge Road in the Town of Amherst for a single family subdivision. Construction will consist of a proposed public roadway, public storm sewer, sanitary sewer and water mains, lighting and landscaping improvements. Seventeen (17) lots are proposed for the roadway extension, fourteen (14) of which will be building lots. One lot will be used for stormwater management areas and two lots will be permeant open space areas. Currently the site consists of a single-family house, but the majority of the site is undeveloped woodlands, wetlands and open grass areas. Approximately 0.12 acres of the site are designated as Federal wetlands. The proposed site development area to be disturbed for this project is approximately 5.61 acres when construction is completed.

Soil disturbing activities will include:

A. Construction of temporary construction exit point

B. Clearing & grubbing of the site within disturbance limits

C. Installation of the detention basin, bioretention area including topsoil & seed

D. Installation of storm sewer pipes and inlets

E. Construction of utilities

F. Construction of curbing and pavement

G. Final grading & landscaping

H. Construction of buildings

The site is owned by Joeseph Rubino and will be developed by Joseph Rubino. The work area consists of approximately 5.6 acres for which erosion and sediment controls have been

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developed and fully addressed in this written plan and the Erosion and Sediment Control Plans. See the construction documents for additional details.

105 RUNOFF COEFFICIENT, SOILS, AND RAINFALL INFORMATION

The soils on the portion of the site in the project area consists of 100% “D” type soils per the Web Soil survey. The initial composite runoff curve number for the pre-construction site is "CN" = 79 (Wood/grass). The post-construction runoff curve number for the site will be "CN" = 87 (1/4 acre lots, 38% imp Use). The site is 6.7 acres of which approximately 5.6 acres will be disturbed by construction activities.

See soils information located in Appendix H.

The site is in Erie County, which receives an average of approximately 45 inches rainfall annually with the highest amounts of rainfall received in the months of May thru September. Annual snow for this area is approximately 120 inches.

106 WATERS

The runoff generated from the site will drain east via a storm sewer system, discharge into a bioretention basin, which outfall into a dry pond, which has a controlled discharge to a manmade drainage ditch, which then outfalls into the existing adjacent wetlands.

107 INDIAN COUNTRY LANDS

This project is not located on Indian Lands.

108 ENDANGERED AND THREATENED SPECIES

No endangered or threatened species have been determined to be on the site.

109 CRITICAL HABITAT

See section 108 above.

110 HISTORIC PLACES

The assessed property and proposed activity is not in an area of identifiable archaeological sensitivity and no known registered, eligible or inventoried archaeological sites of historic were identified.

111 WETLANDS AND/OR OTHER SURFACE WATERS

0.054 NYSDEC wetlands were delineated on site by Earth Dimensions Inc. The majority of these wetlands are east of the development area and only 0.08 acres of wetland buffer area will be disturbed. The Wetland Delineation Report is included in the Appendix of this report.

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112 EROSION AND SEDIMENT CONTROLS

112.1 STABILIZATION PRACTICES

Stabilization practices for this site include:

A. Land clearing activities shall be done only in areas where earthwork will be performed and shall progress as earthwork is needed.

B. Use of stabilization method for all slopes having a slope greater than 1V:3H.

C. Seeding and planting of all disturbed areas

D. Vegetation preservation in undisturbed areas.

E. Frequent watering to minimize wind erosion during construction.

a. **For sites where 5 acres or more are disturbed at any one time:** In areas where soil disturbance activity has been temporarily or permanently ceased, temporary and/or permanent soil stabilization measures shall be installed and/or implemented within seven (7) days from the date the soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the most current version of the New York Standards and Specifications for Erosion and Sediment Control.

b. The **owner or operator** shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.

c. The **owner or operator** shall install any additional measures needed to protect water quality.

112.2 STRUCTURAL PRACTICES

A. Inlet protection using a method detailed in the Construction Documents.

B. Perimeter protection using temporary silt fence/silt sock or silt sock.

C. Outlet protection using rip-rap stone and end sections.

D. Stabilized Construction Entrance.

E. Temporary stone wash off areas.

F. Storm sewer, curb/gutter.

G. Sediment traps and basins.

112.3 SEQUENCE OF MAJOR ACTIVITIES

The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls

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and ensuring their proper functioning remains with the Contractor. The order of activities will be as follows:

Construct temporary construction exit at locations shown on the Demolition & Erosion Control Plans.

B. Install perimeter silt fence/silt socks in the locations shown on the Demolition & Erosion Control Plan Sheet.

C. Clear & Grub site.

D. Installation of detention basin to act as sediment basin (do not install bioretention soil or underdrains until stabilized)

E. Commence site grading.

F. Disturbed areas of the site where construction activity has ceased for more than 14 days shall be temporarily seeded and watered.

G. Installation of proposed utilities.

H. Finalize pavement subgrade preparation.

I. Construct all curb, drainage inlets, storm sewer pipes and storm sewer manholes, as shown on the plans. Install temporary inlet protection at the locations of all inlets.

J. Dust control.

K. Remove inlet protection around inlets and manholes no more than 48 hours prior to placing stabilized base course.

L. Install base material as required for pavement.

M. Carry out final grading and seeding and planting.

N. Clean storm system following construction, clean detention basins of any silt and return to design grades.

Construct buildings.

O. Remove silt fencing/silt sock only after all paving is complete and exposed surfaces are stabilized.

P. Remove temporary construction exits only prior to pavement construction in these areas.

Q. Sequent of Operation for Individual Lot Grading and Erosion Sediment Control

1. Notify sediment control inspector at least 24 hours prior to start of construction.

2. Survey and stakeout for clearing, stripping and erosion control activities.

3. Install erosion and sediment controls

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4. Perform the necessary work to ensure proper surface drainage while maintaining erosion and sediment control as defined by Town specification and design drawings.

5. When activities temporarily cease during construction, soil stockpiles and exposed soil should be stabilized by seed and mulch or other appropriate measure as soon as possible, but in no case more than 1 days after construction activity has ceased.

6. Notify sediment control inspector and obtain approval before proceeding further.

7. Site preparation and construction shall not adversely affect the free flow of storm runoff or water courses.

8. Upon completion of utility installation, restoration shall commence.

9. Erosion and sediment controls are to be removed as their usefulness diminish. At all instances, notify the sediment control inspector and obtain written approval before removal of any erosion and sediment control devices.

Note: Sediment control storage during construction (traps & basins) during construction shall be 134 cy per acre of disturbance per NYSDEC requirements.

112.4 STORM WATER MANAGEMENT

The site drains from the west to the east and south. A portion of the site drains to Dodge Road on the west side of the property. The rest of the site drains to the south side of the property or to an existing federal wetland on the east side of the property.

The proposed onsite storm sewer system for this development project consists of smooth interior and perforated HDPE pipes connected by a series of catch basins. The storm water management system for this project consists of one bioretention areas and one pond that has an outlet control structure prior to discharge. The ponds drain to the existing wetland. The bioretention areas proposed on site are designed to provide 100% of the required Runoff Reduction volume (RRv) for the site. The soils in the vicinity of the bioretention area are mainly USDA hydrologic group 'D' and therefore the system will be installed with underdrains per NYSDEC requirements. The bioretention areas will consist of 8" perforated HDPE underdrains in 12" of drainage gravel, followed by filter fabric and then finally 30" minimum of planting soil. Overflow catch basins will be installed to allow 6" maximum temporary ponding for RRv treatment. The proposed detention pond outlet control pipe is designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates for pre-development drainage area which drains to the existing stream.

Runoff reduction volume (RRv), water quality volume (WQv) and stormwater volume attenuation for the site is designed in accordance with Chapter 4 of the NYSDEC Stormwater design manual. The bioretention areas will be provided as a "green infrastructure" practice to provide runoff reduction to meet the Chapter 4 requirements for the currently undeveloped areas. Runoff from the site was looked at as a whole for the calculation of volume attenuation requirements. The amount of impervious cover post-development is 1.57 acres. The proposed

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detention ponds are designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates.

Town of Amherst Requirement:

The Town of Amherst requires that the 25-year proposed storm event be attenuated with detention and that the outlet be restricted to the 10-year existing storm event. This volume of 16,041 cf is accommodated in the detention basin at elevation 583.35. At this elevation, the outlet discharge will be restricted to 6.29 cfs from the pond, which is less than the existing 10-year peak runoff outflow of 7.47 cfs of the overall site.

The NYSDEC Stormwater Management Design Manual requires a five-step process for Stormwater Management Planning as outlined in Chapter 3. The five steps include:

1. Site planning to preserve natural features and reduce impervious cover.
    - 2.7 acres of existing vegetation at east will remain and be protected, and rear of the subdivided lots north and south will remain as green space.
2. Calculation of Water Quality Volume (WQv=RRv) for site.
    - See Stormwater Drainage Calculations.
3. Incorporation of Green Infrastructure techniques and standard SMPs with Runoff Reduction Volume (RRv) capacity.
    - A bioretention area was incorporated into the site design to provide required RRv for the development. See Stormwater Drainage Calculations.
4. Use of standard SMPs where applicable, to treat the portion of water quality volume not addressed by green infrastructure techniques and standard SMPs with RRv capacity.
    - Since the provided RRv is less than the WQv required, use of standard SMPs to treat the remaining WQv is applicable.
5. Design of volume and peak rate control practices where required.
    - See Stormwater Drainage Calculations.

The NYSDEC Stormwater Management Design Manual requires (5) five different criteria be considered when designing a stormwater management system. Those criteria are Water Quality, Runoff Reduction Volume, Channel Protection, Overbank Flooding and Extreme Storm Protection. Below is a summary of each item and how it is incorporated into this project.

Water Quality & Runoff Reduction Volume:

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The NYSDEC requires reduction of the total water quality volume by green infrastructure techniques and SMP's to replicate pre-development hydrology. A bioretention area was incorporated into the site layout to provide the minimum required RRv for contributing WQv runoff area for the development. The bioretention area will provide 4,224 cf RRv. The minimum RRv required is 4,182 cf. The bioretention will also treat 3,370 cf of WQv. The required WQv = 7,594 cf. The sum of the WQv treated and the RRv is equal to the required WQv, therefore the practice is acceptable.

Channel Protection:

The NYSDEC requires that 24-Hour extended detention be provided for the proposed 1-year storm event. A volume of 3,985 cf is accommodated in the detention basin at elevation 580.32.

Overbank Flooding:

The NYSDEC requires that the 10-year proposed storm event be attenuated with detention and that the outlet be restricted to the 10-year existing storm event. A volume of 12,044 cf is accommodated in the detention basin at elevation 582.58.

Extreme Storm Protection:

The NYSDEC requires that the 100-year proposed storm event be attenuated with detention and that the outlet be restricted to the 100-year existing storm event. A volume of 20,698 cf is accommodated in the detention basin at elevation 583.86.

Refer to engineer's report for storm sewer design criteria, runoff summary table and stormwater drainage calculations.

113 OTHER CONTROLS

113.1 OFF-SITE VEHICLE TRACKING

A stabilized construction exit will be provided to help reduce vehicle tracking of sediments and will be used for vehicle wash areas and to further aid in the reduction of vehicle tracking of sediments. The paved streets adjacent to the site entrance shall be inspected daily and swept as necessary to remove any excess mud, dirt, or rock tracked from the site. Dump trucks hauling material to/from the construction site will be covered with a tarpaulin. The job site superintendent will be responsible for seeing that these procedures are followed.

113.2 EXCAVATION SPOIL MATERIALS

Excavation spoil materials are potentially generated during grading operations for this project. These materials must be properly managed to prevent them from contributing to storm water discharges. The materials generated from the development of this project will be hauled off-site or stockpiled for re-use in designated areas which will have temporary erosion & sediment control measures installed. Any removal from site will be done under the necessary permits required by the local governing agencies.

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113.3 DUST CONTROL

Minimizing wind erosion and controlling dust will be accomplished by one or more of the following methods:

A. Frequent watering of excavation and fill areas.

B. Providing gravel or paving at entrance/exit drives, parking areas and transit paths.

113.4 WASTE DISPOSAL

If needed, all waste materials will be collected and stored in securely lidded metal dumpsters rented from an approved waste management company. The dumpster will comply with all local and state solid waste management regulations.

All trash and construction debris from the site will be deposited in the dumpsters. The dumpsters will be emptied when full and then hauled to a NYSDEC approved landfill for proper disposal. No construction waste will be buried on-site. All personnel will be instructed regarding the correct procedures for waste disposal.

113.5 SANITARY WASTE

If needed, portable toilet units or field offices with toilet facilities connected to the municipal sanitary sewer will be used for sanitary purposes. All portable toilet units will be emptied a minimum of once per week by a licensed portable facility provided in compliance with local and state regulations.

113.6 CONCRETE WASTE FROM CONCRETE TRUCKS

A. Emptying of excess unhardened concrete and/or washout from concrete delivery trucks will be allowed on the job site, but in either (1) specifically designated diked areas which have been prepared to prevent contact between concrete and/or washout and storm water which will be discharged from the site or (2) in locations where waste concrete will be poured into forms to make rip-rap or other useful concrete products.

B. Hardened waste concrete from the designated diked areas described above will be disposed of in accordance with applicable local and state regulations with regards to disposal of construction debris.

113.7 HAZARDOUS SUBSTANCES & HAZARDOUS WASTE

A. All hazardous waste materials will be disposed of by the Contractor in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. Site personnel will be instructed in these practices by the job superintendent, who will also be responsible for seeing these practices are followed. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the

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immediate area where such products are stored and/or used and another copy of each MSDS will be maintained in the SWPPP file at the job site construction office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

B. The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this SWPPP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials of hazardous wastes will be allowed to come in contact with storm water discharges. If such contact occurs, the storm water discharge shall be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job superintendent to properly train all personnel in the use of the SPCC plan.

C. Any spills of hazardous materials which are in excess of the Reportable Quantities as defined by the EPA regulations shall be immediately reported to the EPA National Response Center at 1-100-424-1102.

D. In order to minimize the potential for a spill of hazardous materials to come in contact with storm water, the following steps will be implemented:

1. All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, cleaning solvents, additives for soil stabilization, concrete curing compounds and additives, etc.) will be stored in a secure location, under cover, when not in use.

2. The minimum practical quantity of all such materials will be kept on the job site.

3. A spill control and containment kit (containing for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.

4. All of the product in a container will be used before the container is disposed of. All such containers will be triple rinsed with water prior to disposal. The rinse water used in these containers will be disposed of in a manner in compliance with state and federal regulations and will not be allowed to mix with storm water discharges.

5. All products will be stored in and used from the original container with the original product label.

6. All products will be used in strict compliance with instructions on the product label.

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7. The disposal of excess or used products will be in strict compliance with instructions on the product label.

113.8 CONTAMINATED SOILS

A. Any contaminated soils (resulting from spills of materials with hazardous properties) which may result from construction activities will be contained and cleaned up immediately in accordance with the procedures given in the Spill Prevention Control and Countermeasures (SPCC) Plan and in accordance with applicable state and federal regulations.

B. The job site superintendent will be responsible for seeing that these procedures are followed.

114 COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

The Contractor will obtain copies of any and all local and state regulations which are applicable to storm water management, erosion control, and pollution minimization at this job site and will comply fully with such regulations. The Contractor will submit written evidence of such compliance if requested by the Operator or any agent of a regulatory body. The Contractor will comply with all conditions of the SPDES General Permit for Construction Activity for the State of New York, including the conditions related to maintaining the SWPPP and evidence of compliance with the SWPPP at the job site and allowing regulatory personnel access to the job site and to records in order to determine compliance.

The SWPPP for this site development project requires regulated MS4 approval from the Town of Amherst. All changes to the SWPPP must be approved by the Town of Amherst prior to applying changes to the SWPPP in the field.

115 INSPECTION AND MAINTENANCE PROCEDURES

The following inspection and maintenance practices will be used to maintain erosion and sediment controls and stabilization measures.

1. All control measures will be inspected by the owner/operator at least weekly and shall continue until the site complies with the Final Stabilization section of this document (See Section 116).

2. All control measures will be inspected by a Qualified Professional at least weekly and shall continue until the site complies with the Final Stabilization section of this document (See Section 116).

3. All measures will be maintained in good working order; if repairs or other measures are found to be necessary, they will be initiated within 24 hours of report.

4. Built up sediment will be removed from silt fence/silt sock when it has reached one-third the height of the fence.

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5. Silt fence/silt socks will be inspected for depth of sediment, tears, etc., to see if the fabric is securely attached to the fence posts, and to see that the fence posts are securely in the ground.

6. Temporary and permanent seeding and all other stabilization measures will be inspected for bare spots, washouts, and healthy growth.

7. A maintenance inspection report will be made after each inspection.

8. The job site superintendent will be responsible for selecting and training the individuals who will be responsible for these inspections, maintenance and repair activities, and filling out inspection and maintenance reports.

9. Personnel selected for the inspection and maintenance responsibilities will receive training from the job site superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls that are used onsite in good working order. They will also be trained in the completion of, initiation of actions required by, and the filing of the inspection forms. Documentation of this personnel training will be kept on site with the SWPPP.

10. Disturbed areas and materials storage areas will be inspected for evidence of or potential for pollutants entering stormwater systems.

11. Report to the NYSDEC within 24 hours any noncompliance with the SWPPP that will endanger public health or the environment. Follow up with a written report within 5 days of the noncompliance event. The following events require 24 hour reporting: a) any unanticipated bypass which exceeds any effluent limitation in the permit, b) any upset which exceeds any effluent limitation in the permit, and c) a violation of a maximum daily discharge limitation for any of the pollutants listed by the NYSDEC in the permit to be reported within 24 hours. The written submission must contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the non-compliance.

12. Releases of hazardous substances or oil in excess of reportable quantities (as established under 40 CFR 110, 40 CFR 117 or 40 CFR 302) must be reported.

116 INSPECTION AND MAINTENANCE REPORT FORMS

Once installation of any required or optional erosion control device or measure has been implemented, inspections shall be performed by a Qualified Professional at least once every seven (7) calendar days. For construction sites where soil disturbance activities are on-going and the **owner or operator** has received authorization in accordance with Part II.C.3 of the General Permit to disturb greater than five (5) acres of soil at any one time, the **qualified inspector** shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days. The owner and contractor shall obtain from the MS4 an written authorization approval for disturbing more than

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five-acres at any given time. Written authorization shall be kept within the SWPPP once received. For construction sites where active construction has been suspended, inspection frequency under the general permit can be reduced to once every 30 days, provided temporary stabilization measures have been applied to all disturbed areas.

The report forms shall become an integral part of the SWPPP and shall be made readily accessible to governmental inspection officials, the Operator's Engineer, and the Operator for review upon request during visits to the project site. In addition, copies of the reports shall be provided to any of these persons, upon request, via email transmission. Inspection and maintenance report forms are to be maintained by the permittee for five years following the final stabilization of the site.

117 OTHER RECORD-KEEPING REQUIREMENTS

The Contractor shall keep the following records related to construction activities at the site:

- Dates when major grading activities occur and the areas which were graded
- Dates and details concerning the installation of structural controls
- Dates when construction activities cease in an area
- Dates when an areas is stabilized, either temporarily or permanently
- Dates of rainfall and the amount of rainfall
- Dates and descriptions of the character and amount of any spills of hazardous materials
- Records of reports filed with regulatory agencies if reportable quantities of hazardous materials spilled

118 SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN

118.1 MATERIALS COVERED

The following materials or substances are expected to be present onsite during construction:

- Concrete/Additives/Wastes
- Cleaning solvents
- Sanitary wastes
- Detergents
- Petroleum based products
- Paints/Solvents
- Pesticides
- Solid and construction wastes
- Acids
- Fertilizers
- Soil stabilization additives

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118.2 MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff. The job site superintendent will be responsible for ensuring that these procedures are followed.

A. Good Housekeeping

The following good housekeeping practices will be followed onsite during the construction project.

1. An effort will be made to store only enough products required to do the job.

2. All materials stored onsite will be stored in a neat, orderly manner and, if possible, under a roof or in a containment area. At a minimum, all containers will be stored with their lids on when not in use. Drip pans shall be provided under all dispensers.

3. Products will be kept in their original containers with the original manufacturer's label in legible condition.

4. Substances will not be mixed with one another unless recommended by the manufacturer.

5. Whenever possible, all of a product will be used up before disposing of the container.

6. Manufacturer's recommendations for proper use and disposal will be followed.

7. The job site superintendent will be responsible for daily inspections to ensure proper use and disposal of materials.

B. Hazardous Products

These practices will be used to reduce the risks associated with hazardous materials. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the SWPPP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

1. Products will be kept in original containers with the original labels in legible condition.

2. Original labels and material safety data sheets (MSDS's) will be procured and used for each material.

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3. If surplus product must be disposed of, manufacturer's or local/state/federal recommended methods for proper disposal will be followed.

4. A spill control and containment kit (containing for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.

5. All of the product in a container will be used before the container is disposed of. All such containers will be triple rinsed with water prior to disposal. The rinse water used in these containers will be disposed of in a manner in compliance with state and federal regulations and will not be allowed to mix with storm water discharges.

C. Hazardous Waste

All hazardous waste materials will be disposed of by the Contractor in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. Site personnel will be instructed in these practices by the job site superintendent, who will also be responsible for seeing that these practices are followed.

D. Product Specific Practices

The following product specific practices will be followed on the job site.

1. Petroleum Products

All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any petroleum storage tanks stored onsite will be located within a containment area that is designed with an impervious surface between the tank and the ground. The secondary containment must be designed to provide a containment volume that is equal to 110% of the volume of the largest tank. Drip pans shall be provided for all dispensers. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations. The location of any fuel tanks and/or equipment storage areas must be identified on a plan by the contractor once the locations have been determined.

2. Fertilizers

Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked in the soil to limit exposure to stormwater. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

3. Paints, Paint Solvents, and Cleaning Solvents

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All containers will be tightly sealed and stored when not in use. Excess paint and solvents will not be discharged to the storm sewer system but will be properly disposed of according to manufacturer's instructions or state and federal regulations.

4. Concrete Wastes

Concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water on the site, but only in either (1) specifically designated diked areas which have been prepared to prevent contact between the concrete and/or wash out and storm water which will be discharged from the site or (2) in locations where waste concrete can be poured into forms to make riprap or other useful concrete products.

The hardened residue from the concrete wash out diked areas will be disposed of in the same manner as other non-hazardous construction waste materials or may be broken up and used on site as deemed appropriate by the Contractor. The job site superintendent will be responsible for seeing that these procedures are followed.

All concrete wash out areas will be located in an area where the likelihood of the area contributing to storm water discharges is negligible. If required, additional BMPs must be implemented to prevent concrete wastes from contributing to storm water discharges. The location of concrete wash out area(s) must be identified on a plan by the contractor once the locations have been determined. In addition, a standard detail on the construction of the concrete wash out shall be included on this plan.

E. Solid and Construction Wastes

All waste materials will be collected and stored in an appropriately covered container and/or securely lidded metal dumpster rented from a local waste management company which must be a solid waste management company licensed to do business in New York and the Town of Amherst. The dumpster will comply with all local and state solid waste management regulations.

All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of twice per week or more often if necessary, and the trash will be hauled to a landfill approved by the NYSDEC. No construction waste materials will be buried on site. All personnel will be instructed regarding the correct procedures for waste disposal.

All waste dumpsters and roll-off containers will be located in an area where the likelihood of the containers contributing to storm water discharges is negligible. If required, additional BMPs must be implemented, such as sandbags around the base, to prevent wastes from contributing to storm water discharges. The location of waste dumpsters and roll-off containers must be identified on a plan by the contractor once the locations have been determined.

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F. Sanitary Wastes

Portable toilet units or field offices with toilet facilities connected to the municipal sanitary sewer will be used for sanitary purposes. All portable toilet units will be emptied a minimum of once per week by a licensed portable facility provided in compliance with local and state regulations.

All sanitary waste units will be located in an area where the likelihood of the unit contributing to storm water discharges is negligible. If required, additional BMPs must be implemented, such as sandbags around the base, to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on a plan by the contractor once the locations have been determined.

G. Contaminated Soils

Any contaminated soils (resulting from spills of materials with hazardous properties) which may result from construction activities will be contained and cleaned up immediately in accordance with the procedures given in the Materials Management Plan and in accordance with applicable state and federal regulations.

118.3 SPILL PREVENTION AND RESPONSE PROCEDURES

The Contractor will train all personnel in the proper handling and cleanup of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with storm water discharges. If such contact occurs, the storm water discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job site superintendent to properly train all personnel in spill prevention and clean up procedures.

A. In order to minimize the potential for a spill of hazardous materials to come into contact with storm water, the following steps will be implemented:

1. All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, cleaning solvents, additives for soil stabilization, concrete curing compounds and additives, etc.) will be stored in a secure location, with their lids on, preferably under cover, when not in use.

2. The minimum practical quantity of all such materials will be kept on the job site.

3. A spill control and containment kit (containing, for example, absorbent materials, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.

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4. Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.

B. In the event of a spill, the following procedures should be followed

1. All spills will be cleaned up immediately after discovery.

2. The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with the hazardous substances.

3. The project manager and the Engineer of Record will be notified immediately.

   Spills of toxic or hazardous materials will be reported to the appropriate federal, state, and/or local government agency, regardless of the size of the spill. Spills of amounts that exceed Reportable Quantities of certain substances specifically mentioned in federal regulations (40 CFR 110, 40 CFR 117, and 40 CFR 302) must be immediately reported to the EPA National Response Center, telephone 1-100-424-1102. From SWPPP-9 "Reportable Quantity Release Form" must be filled out.

4. If the spill exceeds a Reportable Quantity, the SWPPP must be modified within seven (7) calendar days of knowledge of the discharge to provide a description of the release, the circumstances leading to the release, and the date of the release. The plans must identify measures to prevent the recurrence of such releases and to respond to such releases.

C. The job site superintendent will be the spill prevention and response coordinator. He will designate the individuals who will receive spill prevention and response training. These individuals will each become responsible for a particular phase of prevention and response. The names of these personnel will be posted in the material storage area and in the office trailer onsite.

119 CONTROL OF NON-STORM WATER DISCHARGES

Certain types of discharges are allowable under the NYSDEC SPDES General Permit for Construction Activity for the State of New York, and it is the intent of this SWPPP to allow such discharges. These types of discharges will be allowed under the conditions that no pollutants will be allowed to come in contact with the water prior to or after its discharge. The control measures which have been outlined previously in this SWPPP will be strictly followed to ensure that no contamination of these non-storm water discharges takes place. The following allowable non-storm water discharges which may occur at the job site include:

A. Discharges from firefighting activities.

B. Fire hydrant flushings (see note below).

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

C. Waters used to wash vehicles or control dust in order to minimize offsite sediment tracking.

D. Routine external building washdown which does not use detergents.

E. Pavement wash waters where spills or leaks of hazardous materials have not occurred, or detergents have not been used.

F. Air conditioning condensate.

G. Springs or other uncontaminated groundwater, including dewatering ground water infiltration.

H. Foundation or footing drains where no contamination with process materials such as solvents is present.

Note: The Contractor shall discharge any super-chlorinated water from water distribution pipe disinfection activities into sanitary sewer system.

120 STORM WATER CONTROL FACILITY MAINTENANCE

Upon completion of construction, the HOA assumes responsibility for ensuring that the stormwater facilities are regularly inspected and maintained. Maintenance and inspection procedures are as follows (for applicable items).

1. On a quarterly basis and following significant rainfall events or snow-melts, perform the following:

   - Remove and properly dispose of any collected debris and sediment in accordance with applicable state, federal and local regulations.
   - Inspect grassed/landscaped areas for un-vegetated areas or areas with less than 85% healthy stand of grass and reseed and mulch as necessary. Water daily if reseeded in July and August.
   - A record of all inspections should be kept.

2. Maintain all lawn areas by regular mowing, including the grassed slopes of the stormwater pond and any grass swales. Any eroded areas shall be regarded, seeded, and mulched immediately.

3. Long term maintenance of the pond and bioretention facilities shall be performed by the HOA, and adhere to the Town of Amherst Stormwater Maintenance Agreement, as provided in Appendix L. The frequency of inspections for the stormwater pond shall match the frequencies listed on the “Stormwater Pond/Wetland Operation, Maintenance and Management Inspection Checklist” in Appendix K of the SWPPP. The frequency of inspections for the bioretention areas shall match the frequencies listed on the “Bioretention Operation, Maintenance and Management Inspection Checklist” in Appendix K of the SWPPP. The HOA shall provide a qualified inspector to inspect and maintain all post-construction stormwater management practices. The checklists

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provided in Appendix L shall be submitted to the Town of Amherst Stormwater Management Officer each time an inspection is conducted.

The proposed catch basins within public easements and right-of-way will be maintained by the Town of Amherst and shall be inspected and any silt buildup over 6" in depth shall be removed and disposed of properly off-site. The HOA and applicable lot owners are responsible for maintaining the public easement area.

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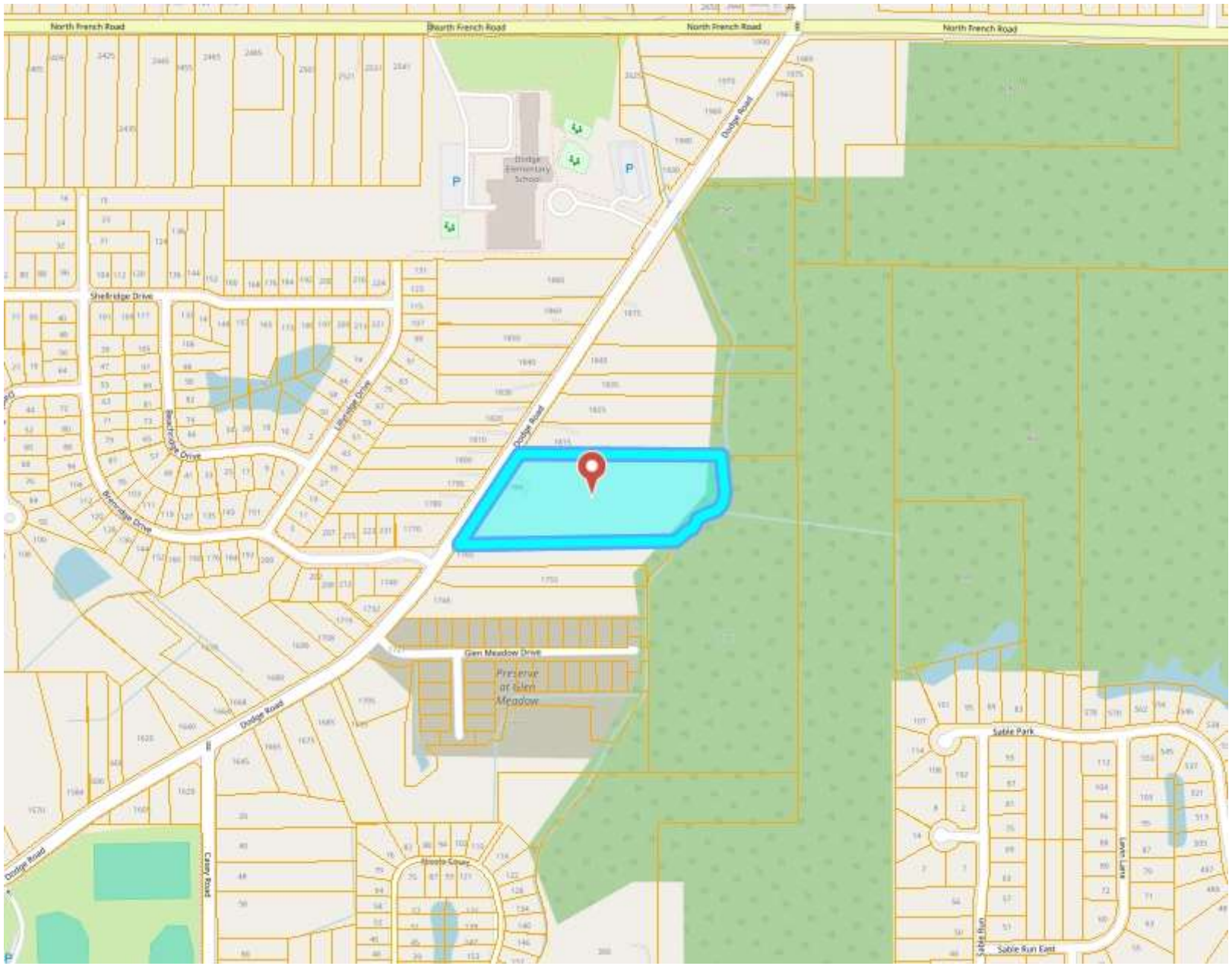
Appendix A

Site Location Map

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Erie County On-Line Mapping Application





Legend

- Parcels

0 0.14 0.3 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
THIS MAP IS NOT TO BE USED FOR NAVIGATION

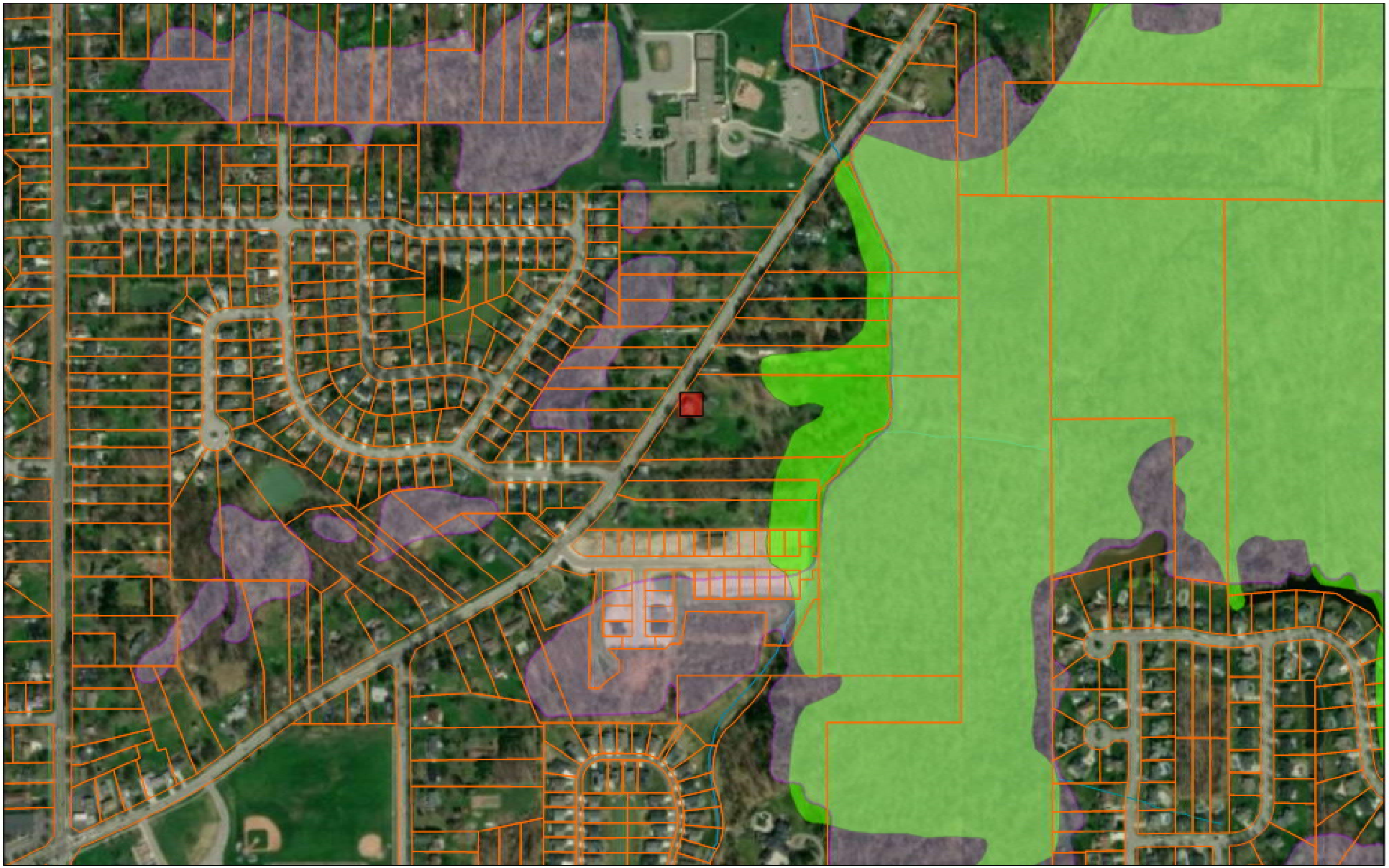
ERIE COUNTY
DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF GIS

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

1: 9,028

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

1789 Dodge Road - Amherst, New York



February 10, 2025

1:9,028

0 0.05 0.1 0.2 mi

0 0.07 0.15 0.3 km

Esri, HERE, Garmin, iPC, Maxar

NYS Department of Env

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

National Flood Hazard Layer FIRMette

FEMA

78°44'1"W 43°2'1"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

78°43'24"W 43°1'34"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BF Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH,
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazar of 1% annual chance flood with a depth less than one foot or with c areas of less than one square mil
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk du Levee. See Notes. Zone X
- Area with Flood Risk due to Leve

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard Zo
- Effective LOMRs
- Area of Undetermined Flood Haza

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Ch / Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an appro point selected by the user and does not r an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This ma was exported on 2/10/2025 at 1:41 PM and does not reflect changes or amendments subsequent to this date an time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following r elements do not appear: basemap imagery, flood zone labe legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized area regulatory purposes.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix B

NYSDEC Notice of Intent (NOI)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR _____ (for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-20-001

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Rubino

Owner/Operator Contact Person First Name
Joseph

Owner/Operator Mailing Address
5500 Main Street, Suite 343

City
Williamsville

State
NY

Zip
14221-____

Phone (Owner/Operator)
716-510-4338

Fax (Owner/Operator)
___-___-____

Email (Owner/Operator)

FED TAX ID
__-_____ (not required for individuals)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Project Site Information

Project/Site Name
Single Family Subdivision

Street Address (NOT P.O. BOX)
1789 Dodge Road

Side of Street
○ **North** ○ **South** ● **East** ○ **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)
Amherst

State: NY
Zip: 14051 -
County: Erie
DEC Region: 9

Name of Nearest Cross Street
Benridge Drive

Distance to Nearest Cross Street (Feet)
400

Project In Relation to Cross Street
○ **North** ○ **South** ○ **East** ● **West**

Tax Map Numbers
Section-Block-Parcel
4200-1-45.2

Tax Map Numbers

1. Provide the Geographic Coordinates for the project site. To do this, go to the NYSDEC Stormwater Interactive Map on the DEC website at:

https://gisservices.dec.ny.gov/gis/stormwater/

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located the centroid of your project site, go to the bottom right hand corner of the map for the X, Y coordinates. Enter the coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting)
-78.7281
Ex. -73.749

Y Coordinates (Northing)
43.0301
Ex. 42.652

2. What is the nature of this construction project?

● **New Construction**

○ **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use	Post-Development Future Land Use
○ FOREST	○ SINGLE FAMILY HOME
○ PASTURE/OPEN LAND	● SINGLE FAMILY SUBDIVISION — Number of Lots: 17
○ CULTIVATED LAND	○ TOWN HOME RESIDENTIAL
● SINGLE FAMILY HOME	○ MULTIFAMILY RESIDENTIAL
○ SINGLE FAMILY SUBDIVISION	○ INSTITUTIONAL/SCHOOL
○ TOWN HOME RESIDENTIAL	○ INDUSTRIAL
○ MULTIFAMILY RESIDENTIAL	○ COMMERCIAL
○ INSTITUTIONAL/SCHOOL	○ MUNICIPAL
○ INDUSTRIAL	○ ROAD/HIGHWAY
○ COMMERCIAL	○ RECREATIONAL/SPORTS FIELD
○ ROAD/HIGHWAY	○ BIKE PATH/TRAIL
○ RECREATIONAL/SPORTS FIELD	○ LINEAR UTILITY (water, sewer, gas, etc.)
○ BIKE PATH/TRAIL	○ PARKING LOT
○ LINEAR UTILITY	○ CLEARING/GRADING ONLY
○ PARKING LOT	○ DEMOLITION, NO REDEVELOPMENT
○ OTHER	○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
	○ OTHER

***Note**: for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
6.1	5.6	0.2	2.2

5. Do you plan to disturb more than 5 acres of soil at any one time? ● **Yes** ○ **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
%	%	%	100 %

7. Is this a phased project? ○ **Yes** ● **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date	End Date
04/01/2025	04/01/2027

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

NYSDEC wetlands

Ransom Creek, Lower, and Tributaries

9a. Type of waterbody identified in Question 9?

- (●) Wetland / State Jurisdiction On Site (Answer 9b)
- ( ) Wetland / State Jurisdiction Off Site
- ( ) Wetland / Federal Jurisdiction On Site (Answer 9b)
- ( ) Wetland / Federal Jurisdiction Off Site
- ( ) Stream / Creek On Site
- (●) Stream / Creek Off Site
- ( ) River On Site
- ( ) River Off Site
- ( ) Lake On Site
- ( ) Lake Off Site
- ( ) Other Type On Site
- ( ) Other Type Off Site

9b. How was the wetland identified?

- ( ) Regulatory Map
- (●) Delineated by Consultant
- ( ) Delineated by Army Corps of Engineers
- ( ) Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001? (●) **Yes** ( ) **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001? ( ) **Yes** (●) **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ( ) **Yes** (●) **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ( ) **Yes** (●) **No**
If Yes, what is the acreage to be disturbed?

.

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ( ) **Yes** (●) **No**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ○ Yes ● No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ● No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ● No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ● No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ● Yes ○ No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ● Yes ○ No

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer: Carmina Wood Design DPC

Contact Name (Last, Space, First): Wood Christopher

Mailing Address: 80 Silo City Row, Ste 100

City: Buffalo

State: NY Zip: 14203-

Phone: 716-842-3165 Fax: 716-842-0263

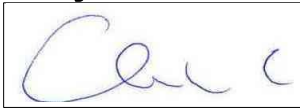
Email: cwood@carminawooddesign.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name: Christopher **MI**:

Last Name: Wood

Signature: 

Date: 2 / 10 / 2025

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

25. Has a construction sequence schedule for the planned management practices been prepared? ● Yes ○ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ● Stabilized Construction Entrance
- ● Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ● Mulching
- ● Protecting Vegetation
- ○ Recreation Area Improvement
- ● Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ● Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ○ Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ● **Preservation of Undisturbed Areas**
- ● **Preservation of Buffers**
- ● **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ○ **Roadway Reduction**
- ○ **Sidewalk Reduction**
- ○ **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ○ **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ● All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- ○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

		0	.	1	7	4	**acre-feet**

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

7738089822

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area (acres)	
RR Techniques (Area Reduction)				
● Conservation of Natural Areas (RR-1)		and/or		
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or		
○ Tree Planting/Tree Pit (RR-3)		and/or		
○ Disconnection of Rooftop Runoff (RR-4)		and/or		
RR Techniques (Volume Reduction)				
○ Vegetated Swale (RR-5)				
○ Rain Garden (RR-6)				
○ Stormwater Planter (RR-7)				
○ Rain Barrel/Cistern (RR-8)				
○ Porous Pavement (RR-9)				
○ Green Roof (RR-10)				
Standard SMPs with RRv Capacity				
○ Infiltration Trench (I-1)				
○ Infiltration Basin (I-2)				
○ Dry Well (I-3)				
○ Underground Infiltration System (I-4)				
● Bioretention (F-5)	6		7 1	
○ Dry Swale (O-1)				
Standard SMPs				
○ Micropool Extended Detention (P-1)				
○ Wet Pond (P-2)				
○ Wet Extended Detention (P-3)				
○ Multiple Pond System (P-4)				
○ Pocket Pond (P-5)				
○ Surface Sand Filter (F-1)				
○ Underground Sand Filter (F-2)				
○ Perimeter Sand Filter (F-3)				
○ Organic Filter (F-4)				
○ Shallow Wetland (W-1)				
○ Extended Detention Wetland (W-2)				
○ Pond/Wetland System (W-3)				
○ Pocket Wetland (W-4)				
○ Wet Swale (O-2)				

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area (acres)
○ Hydrodynamic	
○ Wet Vault	
○ Media Filter	
○ Other _____	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

0.097 **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ● **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

0.096 **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

● **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

0.077 **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a).

0.174

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ◉ **Yes** ○ **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

0.174 **acre-feet**

CPv Provided

0.174 **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

7.47 **CFS**

Post-development

3.99 **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

17.66 **CFS**

Post-development

13.15 **CFS**

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37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ○ **Yes** ● **No**

If Yes, Identify the entity responsible for the long term Operation and Maintenance

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

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40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ][ ]
- ○ Other [ ]
- ● None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ● **No**
If Yes, Indicate Size of Impact. [ ][ ][ ][ ][ ].[ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ● **Yes** ○ **No**
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ● **Yes** ○ **No**

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. [N][Y][R][ ][ ][ ][ ][ ][ ]

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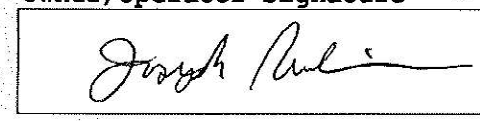
Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name: JOSEPH

MI:

Print Last Name: RUBINO

Owner/Operator Signature: 

Date: 02/06/2025

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix C

MS4 SWPPP Acceptance Form

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

MS4 SWPPP Acceptance Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information	
1. Owner/Operator Name:	Joseph Rubino
2. Contact Person:	Joseph Rubino
3. Street Address:	5500 Main Street
4. City/State/Zip:	Williamsville, New York 14221
II. Project Site Information	
5. Project/Site Name:	Single Family Subdivision
6. Street Address:	1789 Dodge Road
7. City/State/Zip:	Amherst, New York 14051
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	
9. Title/Position:	
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4 Operator:	
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Street Address:	
14. City/State/Zip:	
15. Telephone Number:	

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in section II. of this form has been reviewed and meets the substantive requirements in the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP). Note: The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 Operator does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name[1]:

Title/Position:

Signature:

Date:

VI. Additional Information

[1] Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.

(NYSDEC - MS4 SWPPP Acceptance Form - January 2025)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix D

NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-25-001

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL
CONSERVATION (NYSDEC)

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP-0-25-001

Construction General Permit (CGP)

Issued Pursuant to Article 17, Titles 7, 8 and Article 70

of the Environmental Conservation Law

Effective Date: January 29, 2025 Expiration Date: January 28, 2030

Scott E. Sheeley

Chief Permit Administrator

Scott E. Sheeley JAN. 29, 2025

Authorized Signature Date

Address: NYSDEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

PREFACE

Pursuant to Section 402 of the Clean Water Act (CWA), and 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), *stormwater discharges* from certain *construction activities* are unlawful unless they are authorized by a National Pollutant Discharge Elimination System (NPDES) permit or by a state permit program. New York State administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, and Article 70, as well as 6 NYCRR Parts 621 and 750.

C*onstruction activities* constitute construction of a *point source* and, therefore, pursuant to ECL sections 17-0505, 17-0701, and 17-0803, the *owner or operator* must have coverage under a SPDES permit prior to *commencement of construction activities*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES CONSTRUCTION GENERAL PERMIT (CGP) GP-0-25-001
FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

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Part I. How to Obtain Coverage and General Requirements

To be covered under this permit, the *owner or operator* must meet all eligibility requirements in Part I.A. and follow the requirements for obtaining permit coverage in Part I.D., F., or G.

A. Eligibility Requirements

For a *common plan of development or sale*, the *phase(s)* that meet the eligibility requirements in Part I.A. may obtain coverage under this permit even if other *phase(s)* of the same *common plan of development or sale* do not meet the eligibility requirements and require an individual SPDES permit.

1. The *owner's or operator's construction activities* involve soil disturbances of:

    a. one or more acres; or

    b. less than one acre which are part of a *common plan of development or sale* that will ultimately disturb one or more acres; or

    c. less than one acre where NYSDEC has determined that a SPDES permit is required for *stormwater discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of pollutants to *surface waters of the State*.

        i. 5,000 square feet or more, but less than one acre, and are in the New York City Watershed located east of the Hudson River, Appendix C Figure 1; or

        ii. 20,000 square feet or more, but less than one acre, within the municipal boundaries of the City of New York (NYC); or

        iii. less than 20,000 square feet which are part of a *common plan of development or sale* that will ultimately disturb 20,000 square feet or more, but less than one acre, within the municipal boundaries of NYC; or

        iv. that creates 5,000 square feet or more of *impervious area* within the municipal boundaries of NYC.

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2. *Discharges* from the *owner's or operator's construction activities* are/were not:

    a. already covered by a different SPDES permit; or

    b. covered under a different SPDES permit that was denied, terminated, or revoked; or

    c. identified in an expired individual SPDES permit that was not renewed; or

    d. required to obtain an individual SPDES permit or another general SPDES permit in accordance with Part VII.K.

3. If *construction activities* may adversely affect a species that is endangered or threatened, the *owner or operator* must obtain a:

    a. permit issued pursuant to 6 NYCRR Part 182 for the project; or

    b. letter issued by NYSDEC of non-jurisdiction pursuant to 6 NYCRR Part 182 for the project.

4. If *construction activities* have the potential to affect an *historic property*, the *owner or operator* must obtain one of the following:

    a. documentation that the *construction activity* is not within an archeological buffer area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant:

        i. 1-5 acres of disturbance - 20 feet; or

        ii. 5-20 acres of disturbance - 50 feet; or

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iii. 20+ acres of disturbance - 100 feet.

b. NYSDEC consultation form sent to OPRHP,[1] and copied to NYSDEC's Agency Historic Preservation Officer (APO), and

   i. the State Environmental Quality Review Act (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or

   ii. documentation from OPRHP that the *construction activity* will result in No Impact; or

   iii. documentation from OPRHP providing a determination of No Adverse Impact; or

   iv. a Letter of Resolution signed by the *owner or operator*, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA).

c. documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

   i. No Affect; or

   ii. No Adverse Affect; or

   iii. Executed Memorandum of Agreement.

d. documentation that SHPA Section 14.09 has been completed by NYSDEC or another state agency.

5. If *construction activities* are subject to SEQR, the *owner or operator* must obtain documentation that SEQR has been satisfied.

6. If *construction activities* are not subject to SEQR, but subject to the equivalent environmental review from another New York State or federal agency, the

[1] The consultation form can be submitted, along with other project information, through OPRHP's Cultural Resource Information System (CRIS) portal. If submitted through CRIS, paper copies of the consultation form need not be mailed.

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owner or operator must obtain documentation that project review, pursuant to a process equivalent to SEQR from another New York State or federal agency, has been satisfied.

7. If *construction activities* require Uniform Procedures Act (UPA) Permits (see 6 NYCRR Part 621) from NYSDEC, or the equivalent from another New York State or federal agency, the *owner or operator* must:

    a. obtain all such necessary permits; or

    b. receive notification from NYSDEC pursuant to 6 NYCRR 621.3(a)(4) excepting Part I.A.7.a.

8. *Construction activities* are not eligible if they meet the following criteria in Part I.A.8.a. or b.:

    a. For linear transportation and linear utility project types, the *construction activities*:

        i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

        ii. are undertaken on land with no existing *impervious cover*; and

        iii. disturb two or more acres of *steep slope*.

    b. For all other project types, the *construction activities*:

        i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

        ii. are undertaken on land with no existing *impervious cover*; and

        iii. disturb one or more acres of *steep slope*.

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B. Types of *Discharges* Authorized

1. The following *stormwater discharges* are authorized under this permit:

   a. *Stormwater discharges*, including *stormwater* runoff, snowmelt runoff, and surface runoff and drainage, associated with *construction activity*, are authorized under this permit provided that appropriate *stormwater* controls are designed, installed, and maintained in accordance with Part II. and Part III.

   b. *Stormwater discharges* from construction support activities at the *construction site* (including concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, and borrow areas) if the following requirements are met:

      i. The support activity is directly related to the *construction site* required to have permit coverage for *stormwater discharges*; and

      ii. The support activity is not a commercial operation, nor does it serve multiple unrelated *construction sites*; and

      iii. The support activity does not continue to operate beyond the completion of the *construction activity* at the site it supports; and

      iv. *Stormwater* controls are implemented in accordance with Part II. and Part III. for *discharges* from the support activity areas.

2. The following non-*stormwater discharges* associated with *construction activity* are authorized under this permit:

   a. Non-*stormwater discharges* listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "*Discharges* from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; and

   b. Non-*stormwater discharges* of waters to which other components have not been added that are used in accordance with the *SWPPP* to control dust or irrigate vegetation in stabilized areas; and

   c. Uncontaminated *discharges* from *dewatering* operations

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3. Authorized *discharges* of *stormwater* or authorized *discharges* of non-*stormwater*, commingled with a *discharge* authorized by a different SPDES permit and/or a *discharge* that does not require SPDES permit authorization, are also authorized under this permit.

C. Prohibited *Discharges*

1. Non-*stormwater discharges* prohibited under this permit include but are not limited to:

    a. Wastewater from washout of concrete; and

    b. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials; and

    c. Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance; and

    d. Soaps, solvents, or detergents used in vehicle and equipment washing or external building washdown; and

    e. Toxic or hazardous substances from a spill or other release.

D. Electronic Notice of Intent (eNOI) Submittal

To receive authorization in accordance with Part I.D.3.b., the *owner or operator* must submit a complete eNOI in accordance with the requirements in Part I.D. The eNOI contains questions to: ensure eligibility requirements in Part I.A. have been met; obtain *owner or operator* contact information; obtain the total area to be disturbed and the existing/future *impervious areas* (rounded to the nearest tenth of an acre); confirm *Traditional Land Use Control MS4 Operator* jurisdiction over construction projects; satisfy the EPA eRule requirements; confirm that the Water Quality-Based Effluent Limitations in Part II. have been met; demonstrate consideration of the future risks due to climate change in accordance with Part III.A.2.; and confirm that the other *Stormwater Pollution Prevention Plan (SWPPP)* requirements in Part III. have been met.

1. An eNOI may be submitted for:

    a. *construction activities* that are not part of a *common plan of development or sale*; or

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b. an entire *common plan of development or sale*; or

c. separate *phase(s)* of a *common plan of development or sale* if the following requirements are met:

   i. the *common plan of development or sale* meets the eligibility requirements of Part I.A.5. or 6.; and

   ii. the *phase(s)* meet(s) all other eligibility requirements of Part I.A.; and

   iii. Part III.C. Required *SWPPP* Components by Project Type is based on the *common plan of development or sale*, not the *phase(s)*; or

d. *tree clearing* that is associated with, or will support, a *renewable energy* generation, transmission, or storage project that meets Part I.A.5. and 6., if the *tree clearing*:

   i. meets all other eligibility requirements of Part I.A.; and

   ii. will occur in NYSDEC's Regions 3-9; and

   iii. is not within ¼ mile of a bat hibernaculum protected pursuant to 6 NYCRR Part 182; and

   iv. will occur between November 1st and March 31st.

2. As prerequisites for submitting an eNOI, the *owner or operator* must:

   a. prepare a *SWPPP* for Part I.D.1.a., b., c., or d. in accordance with Part III.; and

   b. based on the following criteria, upload the following signature forms signed in accordance with Part VII.J. to the eNOI prior to submission:

      i. for all eNOIs:

         1. the SWPPP Preparer Certification Form, Appendix F, signed by the *SWPPP* preparer; and

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2. the Owner/Operator Certification Form, Appendix J, signed by the *owner or operator*; and

ii. if an eNOI includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that will *discharge* to the *MS4(s)*:

1. determine if the *Traditional Land Use Control MS4 Operator(s)* have review authority. A *Traditional Land Use Control MS4 Operator* does not have review authority where:

a. the *owner or operator* of the *construction activities* in Part I.D.2.b.ii. is the same entity as the *Traditional Land Use Control MS4 Operator* identified in Part I.D.2.b.ii.; or

b. there is a statute exempting the *owner or operator* from zoning review by the *Traditional Land Use Control MS4 Operator*; or

c. there is no such statute per Part I.D.2.b.ii.1.b., the *Traditional Land Use Control MS4 Operator* concludes, after public hearing, that it does not have zoning review authority in accordance with Legal Memorandum LU14 Updated January 2020 “Governmental Immunity from Zoning and Other Legislation”; and

2. if the *Traditional Land Use Control MS4 Operator(s)* have review authority, submit the *SWPPP* to the *Traditional Land Use Control MS4 Operator(s)* for review and have:

a. if outside the municipal boundaries of NYC: the MS4 SWPPP Acceptance Form, Appendix G, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.; or

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b. if within the municipal boundaries of NYC: The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval Form, Appendix H, signed by the principal executive officer or ranking elected official from the Traditional Land Use Control MS4 Operator, or by a duly authorized representative of that person in accordance with Part VII.J.2.; and

3. if the *Traditional Land Use Control MS4 Operator* does not have review authority, have the MS4 No Jurisdiction Form, Appendix I, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.

3. Submitting an eNOI:

a. The *owner or operator* must submit a complete Notice of Intent electronically using a NYSDEC approved form.[2]

b. The *owner or operator* is authorized to *commence construction activity* as of the authorization date indicated in the Letter of Authorization (LOA), which is sent by NYSDEC after a complete eNOI is submitted.

i. If an eNOI is received for a *SWPPP* that deviates from one of the technical standards but demonstrates *equivalence* in accordance with Part III.B.1.a.ii. or Part III.B.2.b.ii., if the *SWPPP* includes *construction activities* that are not within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)*, and/or if the *SWPPP* includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that do not have review authority in accordance with Part I.D.2.b.ii.1., the authorization date indicated in the LOA will be 60 business days after the eNOI submission date.

[2] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

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c. If *Traditional Land Use Control MS4 Operator(s)* have review authority in accordance with Part I.D.2.b.ii.2., the *owner or operator* must, within five business days of receipt of the LOA, send an electronic copy of the LOA to the *Traditional Land Use Control MS4 Operator(s)* with review authority.

E. General Requirements for *Owners or Operators* with Permit Coverage

1. As of the date the LOA is received, the *owner or operator* must make the eNOI, *SWPPP*, and LOA available for review and copying in accordance with the requirements in Part VII.H. When applicable, as of the date an updated LOA is received, the *owner or operator* must make the updated LOA available for review and copying in accordance with the requirements in Part VII.H.

2. The *owner or operator* must ensure compliance with all requirements of this permit and that the provisions of the *SWPPP*, including any changes made to the *SWPPP* in accordance with Part III.A.5., are properly implemented and maintained from the *commencement of construction activity* until:

   a. all areas of disturbance have achieved *final stabilization;* and

   b. the owner's or operator's coverage under this permit is terminated in accordance with Part V.A.5.a.

3. As of the date of the *commencement of construction activities* until Part I.E.2.a. and b. have been met, the *owner or operator* must maintain at the *construction site*, a copy of:

   a. all documentation necessary to demonstrate eligibility with this permit; and

   b. this permit; and

   c. the *SWPPP*; and

   d. the signed SWPPP Preparer Certification Form; and

   e. the signed MS4 SWPPP Acceptance Form or signed NYCDEP SWPPP Acceptance/Approval Form or signed MS4 No Jurisdiction Form (when applicable); and

   f. the signed Owner/Operator Certification Form; and

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g. the eNOI; and

h. the LOA; and

i. the LOA transmittal to the Traditional Land Use Control MS4 Operator in accordance with Part I.D.3.c. (when applicable).

4. The *owner or operator* must maintain at the *construction site*, until Part I.E.2.a. and b. have been met, as of the date the documents become final or are received, a copy of the:

   a. responsible contractor's or subcontractor's certification statement(s) in accordance with Part III.A.7.; and

   b. inspection reports in accordance with Part IV.C.4. and 6.; and

   c. Request to Disturb Greater Than Five Acres and the Authorization Letter to Disturb Greater Than Five Acres in accordance with Part I.E.6. (when applicable); and

   d. Request to Continue Coverage and the Letter of Continued Coverage (LOCC) in accordance with Part I.F.2. and 4. (when applicable); and

   e. The updated LOA(s) in accordance with Part I.E.9. (when applicable).

5. The *owner or operator* must maintain the documents in Part I.E.3. and 4. in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection. The documents must be paper documents unless electronic documents are accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be. If electronic documents are kept on site, the *owner or operator* must maintain functional equipment on site available to an inspector during normal hours of operation such that an inspector may view the electronic documents in a format that can be read in a similar manner as a paper record and in a legally dependable format with no less evidentiary value than their paper equivalent.

6. The *owner or operator* must meet the following requirements prior to disturbing greater than five acres of soil at any one time:

   a. The *owner or operator* must submit a written Request to Disturb Greater Than Five Acres to:

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i. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, if a *Traditional Land Use Control MS4 Operator* does not have review authority in accordance with Part I.D.2.b.ii.1.; or

ii. the *Traditional Land Use Control MS4 Operator*, if a *Traditional Land Use Control MS4 Operator* has review authority in accordance with Part I.D.2.b.ii.1.; or

iii. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, and each involved *Traditional Land Use Control MS4 Operator*, if the project spans multiple municipalities with more than one *Traditional Land Use Control MS4 Operator* involved with review authority in accordance with Part I.D.2.b.ii.1.

b. The written Request to Disturb Greater Than Five Acres must include:

i. The SPDES permit identification number (Permit ID); and

ii. Full technical justification demonstrating why alternative methods of construction that would result in five acres of soil disturbance or less at any one time are not feasible; and

iii. The phasing plan for the project and sequencing plans for all *phases* from the *SWPPP* in accordance with Part III.B.1.d.; and

iv. Plans with locations and details of erosion and sediment control practices such that the heightened concern for erosion when disturbing greater than five acres at one time has been addressed; and

v. Acknowledgment that "the *owner or operator* will comply with the requirements in Part IV.C.2.b."; and

vi. Acknowledgment that "the *owner or operator* will comply with the requirements in Part II.B.1.b."

c. The *owner or operator* must be in receipt of an Authorization Letter to Disturb Greater Than Five Acres, which will include when the

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authorization begins and ends and indicate a maximum area (acres) of soil disturbance allowed at any one time, from:

i. NYSDEC, if Part I.E.6.a.i. or iii. apply; or

ii. the *Traditional Land Use Control MS4 Operator*, if Part I.E.6.a.ii. applies.

7. Upon a finding of significant non-compliance with the practices described in the *SWPPP* or violation of this permit, NYSDEC may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order must be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

8. If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE).[3] *Construction activity* shall not resume until written permission to do so has been received from the RWE.

9. To be authorized to implement modifications to the information previously submitted in the eNOI, the *owner or operator* must:

   a. notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI; and

   b. update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D.; and

   c. receive an updated LOA.

10. The eNOI, *SWPPP*, LOA, updated LOAs (when applicable), and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

[3] The Regional Water Manager where a DEC Region does not have a RWE.

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F. Permit Coverage for *Discharges* Authorized Under GP-0-20-001

When applicable:

1. Upon the effective date of this permit, an *owner or operator* of *a construction activity*, with coverage under GP-0-20-001, will have interim coverage under GP-0-25-001 for 45 calendar days starting on the effective date of GP-0-25-001 so long as the *owner or operator* maintains compliance with all applicable requirements of this permit.

2. Within 30 calendar days of the effective date of this permit, the *owner or operator*, with coverage under GP-0-20-001, must submit a complete Request to Continue Coverage electronically using a NYSDEC approved form,[4] which contains the information identified in Part I.F.3. below, if:

   a. the *owner or operator* continues to implement the SMP component in conformance with the technical standards in place at the time of initial project authorization; and

   b. the *owner or operator* will comply with all non-design requirements of GP-0-25-001.

3. The Request to Continue Coverage form contains questions to: ensure eligibility requirements in Part I.A. have been met; verify *owner or operator* contact information; verify the permit identification number; verify the original eNOI submission ID, if applicable; verify Part I.F.2.a. and b.; verify the version of the Design Manual that the technical/design components conform to; and receive an updated Owner/Operator Certification Form, Appendix I.

4. The *owner or operator* has obtained continued coverage under GP-0-25-001 as of the date indicated in the LOCC, which is sent by NYSDEC after a complete Request to Continue Coverage form is submitted.

5. If the owner or operator does not submit the Request to Continue Coverage form in accordance with Part I.F.2. and 3., coverage under this permit is automatically terminated after interim coverage expires.

[4] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

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G. Change of *Owner or Operator*

When applicable:

1. When property ownership changes, or when there is a change in operational control over the construction plans and specifications, the following process applies:

    a. The new *owner or operator* must meet the applicable prerequisites for submitting an eNOI in accordance with Part I.D.2.; and

    b. The new *owner or operator* must submit an eNOI in accordance with Part I.D.3.; and

    c. Permit coverage for the new *owner or operator* will be effective upon receipt of the LOA in accordance with Part I.D.3.b.; and

    d. The new *owner or operator*, upon receipt of their LOA, must provide their Permit ID to the original *owner or operator*; and

    e. If the original *owner or operator* will no longer be the *owner or operator* of the *construction activity* identified in the original *owner's or operator's* eNOI, the original *owner or operator*, upon receipt of the new *owner's or operator's* Permit ID in accordance with Part I.G.1.d., must submit to NYSDEC a completed eNOT in accordance with Part V. that includes the name and Permit ID of the new *owner or operator*; or

    f. If the original *owner or operator* maintains ownership of a portion of the *construction activity*, the original *owner or operator* must maintain their coverage under the permit by modifying their eNOI; modifications to the eNOI must include:

        i. the revised area of disturbance and/or *impervious area(s)*; and

        ii. the revised SMP information, if applicable; and

        iii. a narrative description of what has changed; and

        iv. the new *owner's or operator's* Permit ID for the portion of the project removed from the eNOI.

    Owners or operators must follow Part I.E.9. to modify the eNOI.

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Part II. Water Quality-Based Effluent Limitations

A. Maintaining Water Quality

NYSDEC expects that compliance with the requirements of this permit will control *discharge*s necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any *discharge* to either cause or contribute to a violation of the following *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York:

1. There must be no increase in turbidity that will cause a substantial visible contrast to natural conditions; and

2. There must be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and

3. There must be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the *stormwater discharge*s authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standard,* the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this permit and document in accordance with Part IV.C.4. of this permit. To address the *water quality standard* violation the *owner or operator* must include and implement appropriate controls in the *SWPPP* to correct the problem or obtain an individual SPDES permit.

If, despite compliance with the requirements of this permit, it is demonstrated that the *stormwater discharge*s authorized by this permit are causing or contributing to a violation of *water quality standards*, or if NYSDEC determines that a modification of this permit is necessary to prevent a violation of *water quality standards*, the authorized *discharge*s will no longer be eligible for coverage under this permit, and the *owner or operator* must obtain an individual SPDES permit prior to further *discharges* from the *construction site*.

B. Effluent Limitations Applicable to *Discharges* from *Construction Activities*

*Discharge*s authorized by this permit must achieve, at a minimum, the effluent limitations in Part II.B.1.a., b., c., d., and e. These limitations represent the

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degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement, and maintain control measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part II.B.1.a., b., c., d., and e. and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (BB), dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in *SWPPP* the reason(s) for the deviation, or alternative design, and provide information in the *SWPPP* demonstrating that the deviation or alternative design is *equivalent* to the technical standard.

    a. **Erosion and Sediment Controls.** At a minimum, erosion and sediment controls must be selected, designed, installed, implemented, and maintained to:

        i. *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharge*s; and

        ii. Control *stormwater discharge*s, including both peak flow rates and total *stormwater* volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points; and

        iii. *Minimize* the amount of soil exposed during *construction activity*; and

        iv. *Minimize* the disturbance of *steep slope*; and

        v. *Minimize* sediment *discharge*s from the site; and

        vi. Provide and maintain *natural buffers* around surface waters, direct *stormwater* to vegetated areas and maximize *stormwater* infiltration to reduce *pollutant discharge*s, unless *infeasible*; and

        vii. *Minimize* soil compaction. *Minimizing* soil compaction is not required

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where the intended function of a specific area of the site dictates that it be compacted; and

viii. Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and

ix. *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of *pollutants* that could be discharged from the site.

b. **Soil Stabilization**. In areas where soil disturbance activity has ceased, whether permanently or *temporarily ceased*, the application of soil stabilization measures must be initiated by the end of the next business day and completed within 14 calendar days from the date the current soil disturbance activity ceased. For *construction sites* that *directly discharge* to one of the 303(d) segments listed in Appendix D, or are located in one of the watersheds listed in Appendix C, or are authorized to disturb greater than five acres in accordance with Part I.E.5.a.viii., the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven calendar days from the date the soil disturbance activity ceased.

c. **Dewatering**. *Discharges* from *dewatering* activities, including *discharges* from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

d. **Pollution Prevention Measures**. Select, design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be selected, designed, installed, implemented, and maintained to:

i. *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. Soaps, detergents and solvents cannot be used; and

ii. *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation

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and to *stormwater*. *Minimization* of exposure is not required in cases where the exposure to precipitation and to *stormwater* will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of *stormwater* contamination (such as final products and materials intended for outdoor use); and

iii. Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

e. **Surface Outlets.** When discharging from basins and impoundments, the surface outlets must be designed, constructed, and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-Construction Stormwater Management Practice (SMP) Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction SMPs, in accordance with Part III.C., must select, design, install, implement, and maintain the SMPs to meet the *performance criteria* in the New York State Stormwater Management Design Manual, dated July 31, 2024 (DM), using sound engineering judgment. Where SMPs are not designed in conformance with the *performance criteria* in the DM, the *owner or operator* must include in the *SWPPP* the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. The *owner or operator* of a *construction activity*, that requires SMPs in accordance with Part III.C., must design the practices to meet the applicable *sizing criteria* in Part II.C.2.a., b., c., or d.

a. Sizing Criteria for *New Development*

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the total WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv must be calculated in accordance with the criteria in Section 4.2 of the DM; or

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2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the requirements in Part II.C.2.a.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

   In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.4 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

   1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or

   2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs without detention or velocity controls; or

   3. The site *directly discharges* into a fifth order or larger water body (stream, river, or lake), or tidal waters, where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

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iii. *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or

2. A downstream analysis reveals that *overbank* control is not required.

iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or

2. A downstream analysis reveals that *overbank* control is not required.

b. *Sizing Criteria* for *New Development* in Enhanced Phosphorus Removal Watersheds

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24-hour design storm over the post-developed watershed and must be calculated in accordance with the criteria in Section 4.3 of the DM; or

2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part II.C.2.b.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include

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documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible.*

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.5 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or

2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs; or

3. The site *directly discharges* to tidal waters, or a fifth order or larger water body (stream, river, or lake) where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

iii. *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or

2. A downstream analysis reveals that *overbank* control is not required.

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iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or

2. A downstream analysis reveals that *overbank* control is not required.

c. *Sizing Criteria* for *Redevelopment Activity*

i. Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* must be addressed by one of the following options, as outlined in Section 9.2.1. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C) must calculate the WQv in accordance with Section 4.3 of the DM. All other *redevelopment activities* must calculate the WQv in accordance with Section 4.2 of the DM.

1. Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the DM must be applied to all newly created pervious areas; or

2. Capture and treat 100% of the required WQv, for a minimum of 25% of the disturbed redevelopment *impervious area*, by implementation of standard SMPs or reduced by application of runoff reduction techniques; or

3. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a volume-based alternative SMP, as defined in Section 9.4 of the DM; or

4. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a flow-through alternative SMP sized to treat the peak rate of runoff from the WQv design storm; or

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5. Application of a combination of 1 through 4 above that provide a weighted average of at least two of the above methods. Application of this method must be in accordance with the criteria in Section 9.2.1(A)(V) of the DM; or

6. If there is an existing SMP located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 through 5 above.

ii. Channel Protection Volume (CPv) is not required if there is 0% change to hydrology that increases the *discharge* rate and volume from the project site.

iii. *Overbank* Flood Control (Qp) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

iv. Extreme Flood Control (Qf) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

d. *Sizing Criteria* for Combination of *Redevelopment Activity* and *New Development*

Construction projects, that include both *new development* and *redevelopment activity*, must use SMPs that meet the *sizing criteria* calculated as an aggregate of the *sizing criteria* in Part II.C.2.a. or b. for the *new development* portion of the project and Part II.C.2.c. for the *redevelopment activity* portion of the project.

Part III. Stormwater Pollution Prevention Plan (SWPPP)

A. General *SWPPP* Requirements

1. A *SWPPP* must be prepared and implemented by the *owner or operator* of all *construction activity* covered by this permit. All authorized *discharges* must be identified in the *SWPPP*. The *SWPPP* must document the selection, design, installation, implementation and maintenance of the control measures and

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practices that will be used to meet the effluent limitations in Part II.B. and, where applicable, the SMP requirements in Part II.C.

2. The *SWPPP* must demonstrate consideration in narrative format of the future physical risks due to climate change pursuant to the Community Risk and Resiliency Act (CRRA), 6 NYCRR Part 490, and associated guidance.

    a. The owner or operator must consider:

        i. the following physical risks due to climate change:

            (i) increasing temperature; and

            (ii) increasing precipitation; and

            (iii) increasing variability in precipitation, including chance of drought; and

            (iv) increasing frequency and severity of flooding; and

            (v) rising sea level; and

            (vi) increasing storm surge; and

            (vii) shifting ecology.

        ii. for each of the following:

            (i) overall site planning; and

            (ii) location, elevation, and sizing of:

                a. control measures and practices; and

                b. conveyance system(s); and

                c. detention system(s).

3. The *SWPPP* must describe the erosion and sediment control practices and where required, SMPs that will be used and/or constructed to reduce the *pollutants* in *stormwater discharges* and to assure compliance with the

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requirements of this permit. In addition, the *SWPPP* must identify potential sources of pollution which may reasonably be expected to affect the quality of *stormwater discharges*.

4. All *SWPPPs*, that require the SMP component in accordance with Part III.B.2., must be prepared by a *qualified professional*.

5. The *owner or operator* must keep the *SWPPP* current so that, at all times, it accurately documents the erosion and sediment control practices that are being used or will be used during construction, and all SMPs that will be constructed on the site. At a minimum, the *owner or operator* must modify the *SWPPP*, including construction drawings:

   a. whenever the current provisions prove to be ineffective in *minimizing pollutants* in *stormwater discharges* from the site; and

   b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*; and

   c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* NYSDEC, or other regulatory authority; and

   d. to document the final construction conditions in an as-built drawing.

6. NYSDEC may notify the *owner or operator* at any time that the *SWPPP* does not meet one or more of the minimum requirements of this permit. The notification must be in writing and identify the provisions of the *SWPPP* that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by NYSDEC, the *owner or operator* must make the required changes to the *SWPPP* and submit written notification to NYSDEC that the changes have been made. If the *owner or operator* does not respond to NYSDEC's comments in the specified time frame, NYSDEC may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4.

7. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion and sediment control practices included in the *SWPPP* and the

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contractor(s) and subcontractor(s) that will be responsible for constructing the SMPs included in the *SWPPP*. The *owner or operator* must have each of the contractors and subcontractors identify at least one person from their company to be *trained contractor* that will be responsible for implementation of the *SWPPP*. The *owner or operator* must ensure that at least one *trained contractor* is on site daily when soil disturbance activities are being performed.

The *owner or operator* must have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before the *commencement of construction activities*:

> "I hereby certify under penalty of law that I understand and agree to comply with the requirements of the *SWPPP* and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) for Stormwater Discharges from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the *SWPPP* that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for *SWPPP* implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* must attach the certification statement(s) to the copy of the *SWPPP* that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the *SWPPP* after the *commencement of construction activities*, they must also sign the certification statement and provide the information listed above prior to performing *construction activities*.

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B. Required *SWPPP* Contents

1. Erosion and sediment control component - The *owner or operator* must prepare a *SWPPP* that includes erosion and sediment control practices.

    a. Erosion and sediment control practices must be designed:

        i. in conformance with the BB; or

        ii. *equivalent* to the BB if deviating from Part III.B.1.a.i.

    b. If the erosion and sediment control practices are designed in conformance with Part III.B.1.a.ii., the *SWPPP* must include a demonstration of *equivalence* to the BB.

    c. At a minimum, the erosion and sediment control component of the *SWPPP* must include the following:

        i. Background information about the scope of the project, including the location, type and size of project; and

        ii. A site map/construction drawing(s) with north arrows for the project, including a general location map. At a minimum, the site map must show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the *stormwater discharge*(s) and receiving surface water(s); and

        iii. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG); and

        iv. A phasing plan for the project and sequencing plans for all *phases*, both of which must address clearing and grubbing, excavation and grading, utility and infrastructure installation, *final stabilization*,

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and any other *construction activity* at the site that will result in soil disturbance.

1. The phasing plan must include:

    a. a map delineating and labeling the limits of soil disturbance for all *phases* of a project; and

    b. a table identifying the order and intended schedule of when each *phase* will begin and end its sequencing plan. The table must identify the total disturbed area for each *phase* at any one time and the total disturbed area for the overall project at any one time all on one timeline showing all overlapping quantities of disturbed area at any one time; and

2. A sequencing plan for a specific *phase* must include:

    a. a table indicating the order and intended schedule of *construction activities* within a *phase*, and corresponding construction drawings with a description of the work to be performed; and

    b. all permanent and *temporary stabilization* measures; and

v. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented; and

vi. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice; and

vii. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any

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temporary sediment basins and structural practices that will be used to divert flows from exposed soils; and

viii. A maintenance inspection schedule for the contractor(s) and subcontractor(s) identified in Part III.A.7. to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection schedule must be in accordance with the requirements in the BB technical standard; and

ix. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the *stormwater discharges*; and

x. A description and location of any *stormwater discharges* associated with industrial activity other than construction at the site, including, but not limited to, *stormwater discharges* from asphalt plants and concrete plants located on the *construction site*; and

xi. Identification of any elements of the design that are not in conformance with the design criteria in the BB technical standard. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. SMP component – The *owner or operator* of *construction activity* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs.

   a. SMPs must be designed in conformance with the applicable *sizing criteria* in Part II.C.2.a., c., or d.; and

   b. SMPs must be designed in conformance with the *performance criteria*:

      i. in the DM; or

      ii. *equivalent* to the DM if deviating from Part III.B.2.b.i.; or

      iii. in the New York State Stormwater Management Design Manual, dated January 2015 (2015 Design Manual), or *equivalent* to it, if the following criteria are met:

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1. The eNOI is submitted in accordance with Part I.D. before January 29, 2027 for *construction activities* that are either:

    a. subject to governmental review and approval:

        i. where the *owner or operator* made any application to that governmental entity prior to the effective date of this permit; and

        ii. such application included a *SWPPP* developed using the 2015 Design Manual or *equivalent* to it; or

    b. not subject to governmental review and approval:

        i. where a fiscal allocation for the *construction activities* has been developed and approved by a governmental entity; and

        ii. the *SWPPP* was developed using the 2015 Design Manual or *equivalent* to it; and

c. If SMPs are designed in conformance with Part III.B.2.b.ii., the *SWPPP* must include the reason(s) for the deviation or alternative design and a demonstration of *equivalence* to the DM; and

d. If SMPs are designed in conformance with Part III.B.2.b.iii., the *SWPPP* must include supporting information or documentation demonstrating that Part III.B.2.b.iii.1.a. or b. apply; and

e. The SMP component of the *SWPPP* must include the following:

    i. Identification of all SMPs to be constructed as part of the project, including which option the SMP designs conform to, either Part III.B.2.b.i., ii., or iii. Include the dimensions, material specifications and installation details for each SMP; and

    ii. A site map/construction drawing(s) showing the specific location and size of each SMP; and

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iii. A Stormwater Modeling and Analysis Report that includes:

(i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points; and

(ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and SMPs; and

(iii) Results of *stormwater* modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre- and post-development runoff rates and volumes for the different storm events; and

(iv) Summary table, with supporting calculations, which demonstrates that each SMP has been designed in conformance with the *sizing criteria* included in the DM; and

(v) Identification of any *sizing criteria* that is not required based on the requirements included in Part II.C.; and

(vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the DM. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the DM.

iv. Soil testing results and locations (test pits, borings); and

v. Infiltration test results, when required in accordance with Part III.B.2.a.; and

vi. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each SMP. The plan must identify the entity

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that will be responsible for the long-term operation and maintenance of each practice; and

3. Enhanced Phosphorus Removal Standards - The *owner or operator* of *construction activity* identified in Table 2 of Appendix B that is located in a watershed identified in Appendix C must prepare a *SWPPP* that includes SMPs designed in conformance with the applicable *sizing criteria* in Part II.C.2.b., c., or d. and the *performance criteria* Enhanced Phosphorus Removal Standards included in the DM. At a minimum, the SMP component of the *SWPPP* must meet the requirements of Part III.B.2.

C. Required *SWPPP* Components by Project Type

Owners or operators of *construction activities*, identified in Table 1 of Appendix B, are required to prepare a *SWPPP* that only includes erosion and sediment control practices designed in accordance with Part III.B.1. *Owners or operators* of the *construction activities*, identified in Table 2 of Appendix B, must prepare a *SWPPP* that also includes SMPs designed in accordance with Part III.B.2 or 3.

For the entire area of disturbance, including the entire *common plan of development or sale* if applicable, the owner or operator must evaluate every bullet from Appendix B Table 1 and Table 2 separately. If bullets from both Table 1 and Table 2 apply, the *SWPPP* must include erosion and sediment control practices for all *construction activities* but SMPs for only those portions of the *construction activities* that fall under Table 2 bullet(s).

Part IV. Inspection and Maintenance Requirements

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures), and all SMPs identified in the *SWPPP*, are inspected and maintained in accordance with Part IV.B. and C.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity*, identified in Tables 1 and 2 of Appendix B, must have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being

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implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor must:

a. if the corrective action does not require engineering design:

   i. begin implementing corrective actions within one business day; and

   ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

   i. begin the engineering design process within five business days; and

   ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

2. For *construction sites* where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections in accordance with Part IV.B.1. The *trained contractor* must begin conducting the maintenance inspections in accordance with Part IV.B.1. as soon as soil disturbance activities resume.

3. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections in accordance with Part IV.B.1. if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational.

C. *Qualified Inspector* Inspection Requirements

1. With the exception of the following *construction activities* identified in Tables 1 and 2 of Appendix B, a *qualified inspector* must conduct site inspections for all other *construction activities* identified in Tables 1 and 2 of Appendix B:

   a. the construction of a single-family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than or equal to five (5) acres and is

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not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D; and

b. the construction of a single-family home that involves soil disturbances of one (1) or more acres but less than or equal to five (5) acres and is not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D; and

c. construction on *agricultural property* that involves soil disturbances of one (1) or more acres but less than five (5) acres; and

d. *construction activities* located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances of 5,000 square feet or more, but less than one acre.

2. The *qualified inspector* must conduct site inspections in accordance with the following timetable:

a. For *construction sites* where soil disturbance activities are on-going, the *qualified inspector* must conduct a site inspection at least once every seven (7) calendar days; or

b. For *construction sites* where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part I.E.6. to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days; or

c. For *construction sites* where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* must conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas under the jurisdiction of a *Traditional Land Use Control MS4 Operator,* the *Traditional Land Use Control MS4 Operator* (provided the *Traditional Land Use Control MS4 Operator* is not the *owner or operator* of the *construction activity*) by hard copy or email prior to reducing the inspections to this frequency and again by hard copy or email prior to re-commencing construction; or

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d. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the requirement to have the *qualified inspector* conduct inspections ceases if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1., the *Traditional Land Use Control MS4 Operator(s)* (provided the *Traditional Land Use Control MS4 Operator(s)* are not the *owners or operators* of the *construction activity*) in writing prior to the shutdown and again in writing prior to resuming *construction activity*. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* must terminate coverage by meeting the requirements of Part V; or

e. For *construction sites* involving soil disturbance of one (1) or more acres that *directly discharge* to one of the 303(d) segments listed in Appendix D or is located in one of the watersheds listed in Appendix C, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* must inspect:

a. all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness; and

b. all SMPs under construction to ensure that they are constructed in conformance with the *SWPPP*; and

c. all areas of disturbance that have not achieved *final stabilization*; and

d. all points of *discharge* to *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site*; and

e. all points of *discharge* from the *construction site*.

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4. The *qualified inspector* must prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report must include and/or address all of the following, for all *construction activities* except those listed in Part IV.C.1.:

   a. Permit identification number; and

   b. Date and time of inspection; and

   c. Name and title of person(s) performing inspection; and

   d. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection, including the temperature at the time of the inspection; and

   e. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This must include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow; and

   f. A description of the condition of all *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This must include identification of any *discharges* of sediment to the *surface waters of the State*; and

   g. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance; and

   h. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced; and

   i. Description and sketch (map) of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection; and

   j. Estimates, in square feet or acres, of the following areas:

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i. Total area with active soil disturbance (not requiring either *temporary stabilization* or *final stabilization*); and

ii. Total area with inactive soil disturbance (requiring either *temporary stabilization* or *final stabilization*); and

iii. Total area that has achieved *temporary stabilization*; and

iv. Total area that has achieved *final stabilization*; and

k. Current stage of construction of all SMPs and identification of all *construction activity* on site that is not in conformance with the *SWPPP* and technical standards; and

l. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the SMP(s); and

m. Identification and status of all corrective actions that were required by previous inspection; and

n. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* must attach color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* must also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* must attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

5. Within one business day of the completion of an inspection, the *qualified inspector* must notify the *owner or operator*, and appropriate contractor or subcontractor identified in Part III.A.7., of any corrective actions that need to be taken. The contractor or subcontractor must:

a. if the corrective action does not require engineering design:

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i. begin implementing corrective actions within one business day; and

ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

i. begin the engineering design process within five business days; and

ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

6. All inspection reports must be signed by the *qualified inspector.* In accordance with Part I.E.3., the inspection reports must be maintained on site with the *SWPPP*.

Part V. How to Terminate CGP Coverage

A. Electronic Notice of Termination (eNOT) Submittal

The eNOT contains questions to ensure requirements in Part V.A. have been met.

1. An *owner or operator* must terminate coverage when one or more of the following requirements have been met:

a. Total project completion:

i. all *construction activity* identified in the *SWPPP* has been completed; and

ii. all areas of disturbance have achieved *final stabilization*; and

iii. all temporary, structural erosion and sediment control measures have been removed; and

iv. all SMPs have been constructed in conformance with the *SWPPP* and are operational; and

v. an as-built drawing has been prepared; or

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b. Planned shutdown with partial project completion:

   i. all soil disturbance activities have ceased; and

   ii. all areas disturbed as of the project shutdown date have achieved *final stabilization*; and

   iii. all temporary, structural erosion and sediment control measures have been removed; and

   iv. all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational; and

   v. an as-built drawing has been prepared; or

c. In accordance with Part I.G. Change of Owner or Operator; or

d. The *owner or operator* has obtained coverage under an alternative general SPDES permit or an individual SPDES permit.

2. For *construction activities* that require *qualified inspector* inspections in accordance with Part IV.C.1. and have met Part V.A.1.a. or b., the *owner or operator* must have the *qualified inspector* perform a final site inspection prior to submitting the eNOT. The *qualified inspector* must, by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice(s)" certification statements on the eNOT, certify that all the requirements in Part V.A.1.a. or b. have been achieved.

3. For *construction activities* that are subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1. and meet Part V.A.1.a. or b., the *owner or operator* must have the *Traditional Land Use Control MS4 Operator(s)* sign the "MS4 Acceptance" statement on the eNOT in accordance with the requirements in Part VII.J. A *Traditional Land Use Control MS4 Operator* official, by signing this statement, determined that it is acceptable for the *owner or operator* to submit the eNOT in accordance with the requirements of this Part. A *Traditional Land Use Control MS4 Operator* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector*'s final site inspection certification(s) when required in Part V.A.2.

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4. For *construction activities* that require SMPs and meet Part V.A.1.a. or b., the *owner or operator* must, prior to submitting the eNOT, ensure one of the following:

    a. for SMP(s) that were constructed by a private entity, but will be owned, operated, and maintained by a public entity, the SMP(s) and any right-of-way(s) needed to operate and maintain such practice(s) have been deeded to the municipality in which the practice(s) is located; or

    b. for SMP(s) that are privately owned, but will be operated and maintained by a public entity, an executed operation and maintenance agreement is in place with the municipality that will operate and maintain the SMP(s); or

    c. for SMP(s) that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record; or

    d. for SMP(s) that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility, the *owner or operator* has policies and procedures in place that ensure operation and maintenance of the practices in accordance with the operation and maintenance plan.

5. An *owner or operator* that has met the requirements of Part V.A.1., 2., 3., and 4. must request termination of coverage under this permit by submitting a complete Notice of Termination form electronically using a NYSDEC approved form.[5]

    a. The owner's or operator's coverage is terminated as of the termination date indicated in the Letter of Termination (LOT), which is sent by NYSDEC after a complete eNOT is submitted.

[5] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

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Part VI. Record Retention and Reporting

A. Record Retention

The *owner or operator* must retain a copy of the documents listed in Part I.E.3. and a copy of the LOT for a period of at least five years from the date that NYSDEC accepts a complete NOT submitted in accordance with Part V.

B. Reporting

Except for the eNOI, the signature forms associated with the eNOI, and the eNOT, all other written correspondence requested by NYSDEC, including individual permit applications, must be sent to the address of the appropriate DOW (SPDES) Program contact at the Regional Office listed in Appendix E.

Part VII. Standard Permit Requirements

For the purposes of this permit, examples of contractors and subcontractors include: third-party maintenance and construction contractors.

A. Duty to Comply

The *owner or operator*, and all contractors or subcontractors, must comply with all requirements of this permit. Any non-compliance with the requirements of this permit constitutes a violation of the New York State Environmental Conservation Law (ECL), and its implementing regulations, and is grounds for enforcement action. Filing of a request for termination of coverage under this permit, or a notification of planned changes or anticipated non-compliance, does not limit, diminish or stay compliance with any requirements of this permit.

B. Need to Halt or Reduce Activity Not a Defense

The necessity to halt or reduce the *construction activity* regulated by this permit, in order to maintain compliance with the requirements of this permit, must not be a defense in an enforcement action.

C. Penalties

There are substantial criminal, civil, and administrative penalties associated with violating the requirements of this permit. Fines of up to $37,500 per day for each

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violation and imprisonment for up to 15 years may be assessed depending upon the nature and degree of the offense.

D. False Statements

Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance must, upon conviction, be punished in accordance with ECL §71-1933 and or New York State Penal Law Articles 175 and 210.

E. Re-Opener Clause

Upon issuance of this permit, a determination has been made on the basis of a submitted Notice of Intent, plans, or other available information, that compliance with the specified permit requirements will reasonably protect classified water use and assure compliance with applicable *water quality standards*. Satisfaction of the requirements of this permit notwithstanding, if operation pursuant to this permit causes or contributes to a condition in contravention of State *water quality standards* or guidance values, or if NYSDEC determines that a modification is necessary to prevent impairment of the best use of the waters or to assure maintenance of *water quality standards* or compliance with other provisions of ECL Article 17 or the Clean Water Act (CWA), or any regulations adopted pursuant thereto, NYSDEC may require such modification and the Commissioner may require abatement action to be taken by the *owner or operator* and may also prohibit such operation until the modification has been implemented.

F. Duty to Mitigate

The *owner or operator*, and its contractors and subcontractors, must take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

G. Requiring Another General Permit or Individual SPDES Permit

NYSDEC may require any *owner or operator* authorized to *discharge* in accordance with this permit to apply for and obtain an individual SPDES permit or apply for authorization to *discharge* in accordance with another general SPDES permit.

1. Cases where an individual SPDES permit or authorization to discharge in accordance with another general SPDES permit may be required include, but is not limited to the following:

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a. the *owner or operator* is not in compliance with the conditions of this permit or does not meet the requirements for coverage under this permit; and

b. a change has occurred in the availability of demonstrated technology or practices for the control or abatement of *pollutants* applicable to the *point source*; and

c. new effluent limitation guidelines or new source performance standards are promulgated that are applicable to *point sources* authorized to *discharge* in accordance with this permit; and

d. existing effluent limitation guidelines or new source performance standards that are applicable to *point sources* authorized to *discharge* in accordance with this permit are modified; and

e. a water quality management plan containing requirements applicable to such *point sources* is approved by NYSDEC; and

f. circumstances have changed since the time of the request to be covered so that the *owner or operator* is no longer appropriately controlled under this permit, or either a temporary or permanent reduction or elimination of the authorized *discharge* is necessary; and

g. the *discharge* is in violation of section 17-0501 of the ECL; and

h. the *discharge(s)* is a significant contributor of *pollutants*. In making this determination, NYSDEC may consider the following factors:

    i. the location of the *discharge(s)* with respect to *surface waters of the State*; and

    ii. the size of the *discharge(s)*; and

    iii. the quantity and nature of the *pollutants discharged* to *surface waters of the State*; and

    iv. other relevant factors including compliance with other provisions of ECL Article 17, or the CWA.

2. When NYSDEC requires any *owner or operator* authorized by this permit to apply for an individual SPDES permit as provided for in this subdivision, it must notify the *owner or operator* in writing that a permit application is required. This notice must include a brief statement of the reasons for this decision, an application

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form, a statement setting a time for the *owner or operator* to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from the *owner's or operator's* receipt of the notification letter, whereby the authorization to *discharge* under this permit must be terminated. NYSDEC may grant additional time upon demonstration, to the satisfaction of the RWE,[6] that additional time to apply for an alternative authorization is necessary or where NYSDEC has not provided a permit determination in accordance with 6 NYCRR Part 621.

3. When an individual SPDES permit is issued to an *owner or operator* authorized to *discharge* under this permit for the same *discharge(s)*, this permit authorization for *construction activities* authorized under the individual SPDES permit is automatically terminated on the effective date of the individual SPDES permit unless termination is earlier in accordance with 6 NYCRR Part 750.

H. Duty to Provide Information

The *owner or operator* must furnish to NYSDEC, within five business days, unless otherwise set forth by NYSDEC, any information that NYSDEC may request to determine whether cause exists to determine compliance with this permit or to determine whether cause exists for requiring an individual SPDES permit in accordance with 6 NYCRR 750-1.21(e) (see Part VII.G. Requiring Another General Permit or Individual Permit).

The *owner or operator* must make available to NYSDEC, for inspection and copying, or furnish to NYSDEC within 25 business days of receipt of a NYSDEC request for such information, any information retained in accordance with this permit.

Except for Part I.D.4. and 5. and Part I.G., the following applies: where the *owner or operator* becomes aware that it failed to submit any relevant facts on the Notice of Intent, or submitted incorrect information in a Notice of Intent or in any report to NYSDEC, the *owner or operator* must submit such facts or corrected information to NYSDEC within five business days.

I. Extension

In the event a new permit is not issued and effective prior to the expiration of this permit, and this permit is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, then the *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the requirements of this permit until a new permit is issued and effective.

[6] The Regional Water Manager where a DEC Region does not have a RWE.

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J. Signatories and Certification

The Notice of Intent, Notice of Termination, and reports required by this permit must be signed as provided in 40 CFR §122.22.

1. All Notices of Intent and Notices of Termination must be signed as follows:

   a. For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

      (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or

      (ii) the manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for Notice of Intent or Notice of Termination requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

      Note: NYSDEC does not require specific assignments or delegations of authority to responsible corporate officers identified in 40 CFR §122.22(a)(1)(i). NYSDEC will presume that these responsible corporate officers have the requisite authority to sign the Notice of Intent or Notice of Termination unless the corporation has notified NYSDEC to the contrary. Corporate procedures governing authority to sign a Notice of Intent or Notice of Termination may provide for assignment or delegation to applicable corporate positions under 40 CFR §122.22(a)(1)(ii) rather than to specific individuals.

   b. For a partnership or sole proprietorship. By a general partner or the proprietor, respectively.

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c. For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

   1. the chief executive officer of the agency; or

   2. a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. All reports required by this permit, and other information requested by NYSDEC, must be signed by a person described in Part VII.J.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part VII.J.1. or using the Duly Authorized Form, found on the DEC website; and

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

   c. The written authorization is submitted to NYSDEC.

3. Changes to authorization. If an authorization under Part VII.J.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the *construction activity*, a new authorization satisfying the requirements of Part VII.J.2. must be submitted to NYSDEC prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under Part VII.J.1. or 2. must make the following certification:

   I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who

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manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

5. Electronic reporting. If documents described in Part VII.J.1. or 2. are submitted electronically by or on behalf of the *construction activity* with coverage under this permit, any person providing the electronic signature for such documents must meet all relevant requirements of this section, and must ensure that all of the relevant requirements of 40 CFR Part 3 (including, in all cases, subpart D to Part 3) (Cross-Media Electronic Reporting) and 40 CFR Part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

K. Inspection and Entry

The *owner or operator* must allow NYSDEC, the USEPA Regional Administrator, the applicable county health department, or any authorized representatives of those entities, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the *discharge*, upon the presentation of credentials and other documents as may be required by law, to:

1. enter upon the *owner's or operator's* premises where a regulated facility or activity is located or conducted or where records must be kept under the requirements of this permit; and

2. have access to and copy at reasonable times, any records that must be kept under the requirements of this permit, including records required to be maintained for purposes of operation and maintenance; and

3. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and

4. sample or monitor at reasonable times, for the purposes of assuring general SPDES permit compliance or as otherwise authorized by the CWA or ECL, any substances or parameters at any location; and

5. enter upon the property of any contributor to the regulated facility or activity under authority of the *owner or operator*.

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L. Confidentiality of Information

The following must not be held confidential: this permit, the fact sheet for this permit, the name and address of any *owner or operator*, effluent data, the Notice of Intent, and information regarding the need to obtain an individual permit or an alternative general SPDES permit. This includes information submitted on forms themselves and any attachments used to supply information required by the forms (except information submitted on usage of substances). Upon the request of the *owner or operator*, NYSDEC must make determinations of confidentiality in accordance with 6 NYCRR Part 616, except as set forth in the previous sentence. Any information accorded confidential status must be disclosed to the Regional Administrator upon his or her written request. Prior to disclosing such information to the Regional Administrator, NYSDEC will notify the Regional Administrator of the confidential status of such information.

M. Other Permits May Be Required

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

N. NYSDEC Orders or Civil Decrees/Judgments

The issuance of this permit by the NYSDEC, and the coverage under this permit by the *owner or operator*, does not supersede, revoke, or rescind any existing order on consent or civil Decree/Judgment, or modification to any such documents or to any order issued by the Commissioner, or any of the terms, conditions, or requirements contained in such order or modification therefore, unless expressly noted.

O. Property Rights

Coverage under this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining the assent of any other jurisdiction as required by law for the *discharge* authorized.

P. Compliance with Interstate Standards

If the *construction activity* covered by this permit originates within the jurisdiction of an interstate water pollution control agency, then the *construction activity* must also comply with any applicable effluent standards or *water quality standards* promulgated by that interstate agency and as set forth in this permit for such *construction activities*.

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Q. Oil and Hazardous Substance Liability

Coverage under this permit does not affect the imposition of responsibilities upon, or the institution of any legal action against, the *owner or operator* under section 311 of the CWA, which must be in conformance with regulations promulgated pursuant to section 311 governing the applicability of section 311 of the CWA to *discharges* from facilities with *NPDES* permits, nor must such issuance preclude the institution of any legal action or relieve the *owner or operator* from any responsibilities, liabilities, or penalties to which the *owner or operator* is or may be subject pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. section 9601 et seq. (CERCLA).

R. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, must not be affected thereby.

S. NYSDEC Approved Forms

The *owner or operator* must provide all relevant information that is requested by NYSDEC, and required by this permit, on all NYSDEC approved forms.

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APPENDIX A – Abbreviations and Definitions

Abbreviations

APO – Agency Preservation Officer
BB – New York State Standards and Specifications for Erosion and Sediment Control (Blue Book), dated November 2016
BMP – Best Management Practice
CPESC – Certified Professional in Erosion and Sediment Control
CPv – Channel Protection Volume
CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)
DM – New York State Stormwater Management Design Manual (Design Manual), dated July 31, 2024
DOW – Division of Water
EAF – Environmental Assessment Form
ECL – chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law
EPA – U.S. Environmental Protection Agency
HSG – Hydrologic Soil Group
MS4 – Municipal Separate Storm Sewer System
NOI – Notice of Intent
NOT – Notice of Termination
NPDES – National Pollutant Discharge Elimination System
NYC – The City of New York
NYCDEP – The City of New York Department of Environmental Protection
NYSDEC – The New York State Department of Environmental Conservation
OPRHP – Office of Parks, Recreation and Historic Places
Qf – Extreme Flood
Qp – Overbank Flood
RR – Runoff Reduction
RRv – Runoff Reduction Volume
RWE – Regional Water Engineer
SEQR – State Environmental Quality Review Act
SHPA – State Historic Preservation Act
SMP – Post-Construction Stormwater Management Practice
SPDES – State Pollutant Discharge Elimination System
SWPPP – Stormwater Pollution Prevention Plan
TMDL – Total Maximum Daily Load
UPA – Uniform Procedures Act
USDA – United States Department of Agriculture
WQv – Water Quality Volume

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Appendix A

Definitions

All definitions in this section are solely for the purposes of this permit. If a word is not italicized in the permit, use its common definition.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property – the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023).

Alter Hydrology from Pre- to Post-Development Conditions – the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer System – a sewer system which conveys sewage and *stormwater* through a single pipe system to a publicly owned treatment works.

Commence (Commencement of) Construction Activities – the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the *SWPPP*. See definition for "*Construction Activity(ies)*" also.

Common Plan of Development or Sale – a contiguous area where multiple separate and distinct *construction activities* are occurring, or may occur, under one plan. The "common plan" of development or sale is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQR) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating *construction activities* may occur on a specific plot. A *common plan of development or sale* is comprised of two or more *phases*.

Common plan of development or sale does not include separate and distinct *construction activities* that are occurring, or may occur, under one plan that are at least 1/4 mile apart provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

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Construction Activity(ies) – identified within 40 CFR 122.26(b)(14)(x), 122.26(b)(15)(i), and 122.26(b)(15)(ii), any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, mechanized logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal.

Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, which is excluded from the calculation of the soil disturbance for a project. Routine maintenance includes, but is not limited to:

- Re-grading of gravel roads or parking lots; and
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of the ditch; and
- Replacement of existing culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of a ditch; and
- Replacement of existing bridges that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity beneath the bridges; and
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch); and
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*; and
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material; and
- Long-term use of equipment storage areas at or near highway maintenance facilities; and
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*; and
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts; and
- Maintenance of ski trails including brush hog use and mowing; and
- Above ground snowmaking pipe replacement; and
- Replacement of existing utility poles; etc.

Construction Site – the land area where *construction activity(ies)* will occur. See also the definitions for "*Commence (Commencement of) Construction Activities"* and "*Common Plan of Development or Sale."*

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Dewatering – the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Directly Discharge(s)(ing) (to a specific surface waterbody) – runoff flows from a *construction site* by overland flow and the first point of *discharge* is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system and the first point of *discharge* from the separate storm sewer system is the specific surface waterbody.

Discharge(s)(d) – any addition of any *pollutant* to waters of the State through an outlet or *point source*.

Embankment – an earthen or rock slope that supports a road/highway.

Equivalent (Equivalence) – the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization – all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other *equivalent* stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

Historic Property – any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) – all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and compacted gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – not technologically possible, or not economically practicable and achievable considering best industry practices.

Minimize(ing)(ation) – reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer System (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

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1. owned or operated by a State, city, town, village, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, *stormwater*, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA, that *discharges* to *surface waters of the State*; and

2. designed or used for collecting or conveying *stormwater*; and

3. which is not a *combined sewer system*; and

4. which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

Natural Buffer(s) – an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – any land disturbance that does not meet the definition of *Redevelopment Activity* included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

Nonpoint Source(s) – any source of water pollution or *pollutants* which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank – flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator – the person, persons, or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit requirements.

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Performance Criteria – the six performance criteria for each group of SMPs in Chapters 5 and 6 of the technical standard, New York State Stormwater Management Design Manual (DM), dated July 31, 2024. These include feasibility, conveyance, pretreatment, treatment, landscaping, and maintenance. It does not include the *Sizing Criteria* (i.e. WQv, RRv, CPv, Qp and Qf) in Part I.C.2. of the permit.

Phase – a defined area in which *construction activities* are occurring or will occur separate from other defined area(s).

Point Source – any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be *discharged*.

Pollutant(s) – dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast *discharged* into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq.

Qualified Inspector – a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder or other NYSDEC endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any SMPs that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

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Qualified Professional – a person that is knowledgeable in the principles and practices of *stormwater* management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other NYSDEC endorsed individual(s). Individuals preparing *SWPPPs* that require the SMP component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the *SWPPP* that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – the disturbance and reconstruction of existing *impervious area*, including *impervious areas* that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Renewable Energy – electricity or thermal energy generated by renewable energy systems through use of the following technologies: solar thermal, photovoltaics, on land and offshore wind, hydroelectric, geothermal electric, geothermal ground source heat, tidal energy, wave energy, ocean thermal, and fuel cells which do not utilize a fossil fuel resource in the process of generating electricity.

Site Limitations – site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical *site limitations* include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of *site limitations* shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – the criteria included in Part I.C.2 of the permit that are used to size SMPs. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

Steep Slope – land area designated on the current United States Department of Agriculture (USDA) Soil Survey as Soil Slope Phase D, (provided the map unit name or description is inclusive of slopes greater than 25%), or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Stormwater – that portion of precipitation that, once having fallen to the ground, is in excess of the evaporative or infiltrative capacity of soils, or the retentive capacity of surface features, which flows or will flow off the land by surface runoff to waters of the State.

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Streambank – the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – a project specific report, including construction drawings, that among other things: describes the *construction activity(ies)*, identifies the potential sources of pollution at the *construction site*; describes and shows the *stormwater* controls that will be used to control the *pollutants* (i.e. erosion and sediment controls; for many projects, includes SMPs); and identifies procedures the *owner or operator* will implement to comply with the requirements of the permit. See Part III of the permit for a complete description of the information that must be included in the *SWPPP*.

Surface Waters of the State – shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization – exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Load (TMDL) – the sum of the allowable loads of a single *pollutant* from all contributing point and *nonpoint source*s. It is a calculation of the maximum amount of a *pollutant* that a waterbody can receive and still meet *water quality standards*, and an allocation of that amount to the *pollutant's* sources. A TMDL stipulates Waste Load Allocations (WLA) for *point source discharges*, Load Allocations (LA) for *nonpoint source*s, and a margin of safety (MOS).

Traditional Land Use Control MS4 Operator – a city, town, or village with land use control authority that is authorized to *discharge* under New York State DEC's SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Trained Contractor – an employee from the contracting (construction) company, identified in Part III.A.7., that has received four (4) hours of NYSDEC endorsed training

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in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.7., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity).

The *trained contractor* is responsible for the day-to-day implementation of the *SWPPP*.

Tree Clearing – *construction activities* limited to felling and removal of trees.

Tree clearing does not include hand felling and leaving the trees in place with no support from mechanized equipment, which is not considered *construction activity* requiring coverage under this permit.

Water Quality Standard – such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

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APPENDIX B – Required SWPPP Components by Project Type

Table 1

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following *construction activities* that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres: • Single-family home not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D • Single-family residential subdivisions with 25% or less *impervious cover* at total site build-out and not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D • Construction of a barn or other *agricultural building*, silo, stock yard or pen. • Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that include construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.
The following *construction activities* that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land: • All construction activities located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.
Within the municipal boundaries of NYC: • Stand-alone road reconstruction, where the total soil disturbance from only that road construction, is less than one (1) acre of land.
The following *construction activities*: • Installation of underground linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains • Environmental enhancement projects, such as wetland mitigation, *stormwater* retrofits, stream restoration, and resiliency projects that reconstruct shoreline areas to address sea level rise • Pond construction • Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an *impervious cover* • Cross-country ski trails, walking/hiking trails, and mountain biking trails, including a de minimis parking lot (maximum 10 spaces total, sized for passenger cars) with 35 feet minimum preservation of undisturbed area downgradient from the parking lot • Dam rehabilitation (the structure of the dam itself) • Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are not part of residential, commercial, or institutional development; • Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path, or walking path.

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Appendix B

Table 1 (Continued)
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following *construction activities*:

- Slope stabilization
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics
- Spoil areas that will be covered with vegetation
- Vegetated open space (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) that do not *alter hydrology from pre- to post-development* conditions
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions
- Demolition where vegetation will be established, and no *redevelopment activity* is planned[1]
- Installation or replacement of either an overhead electric transmission line or a ski lift tower that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*.
- Solar array field areas that have tables elevated off the ground, spaced one table width apart, do not *alter hydrology from pre- to post-development conditions*, and address water quality volume and runoff reduction volume by maintaining sheet flow on slopes less than 8%.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that do not include construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions.
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary *impervious areas* that will be restored to pre-construction conditions once the *construction activity* is complete (in this context, "temporary" means the *impervious area* will be in place for two years or less)
- Other *construction activities* that do not include the construction or reconstruction of *impervious area*, and do not *alter hydrology from pre- to post-development* conditions, and are not listed in Table 2.

1. If the site is redeveloped in the future, a new eNOI must be submitted.

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Appendix B

Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPS)

The following *construction activities*:

- Single-family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family home that disturbs five (5) or more acres of land
- Single-family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of between 20,000 square feet and one (1) acre of land within the municipal boundaries of NYC with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single-family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a *common plan of development or sale* that will ultimately disturb five (5) or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Creation of 5,000 square feet or more of *impervious area* in the municipal boundaries of NYC
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) that involves soil disturbance greater than five acres.
- Structural agricultural conservation practices as identified in Table II in the “Agricultural Best Management Practice Systems Catalogue” (dated June 2023) that involves soil disturbance greater than five acres and include the construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.
- Facility buildings, including ski lodges, restroom buildings, pumphouses, ski lift terminals, and maintenance and groomer garages
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills; including creation of landfills or capping landfills.
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTWs, water treatment plants, and water storage tanks
- Golf courses
- Office complexes

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Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPS)

The following *construction activities*:

- Permanent laydown yards and equipment storage lots
- Playgrounds that include the construction or reconstruction of *impervious area*
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surfaces
- Road construction or reconstruction, outside the municipal boundaries of NYC
- Road construction within the municipal boundaries of NYC
- Stand-alone road reconstruction, within the municipal boundaries of NYC where the total soil disturbance from that road reconstruction involves soil disturbance of one (1) acre or more of land
- Parking lot construction or reconstruction (as with all Table 2 bullets, this includes parking lots constructed as part of the *construction activities* listed in Table 1, unless a Table 1 bullet specifies otherwise)
- Athletic fields (natural grass) that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations, and well drilling pads, surfaced with *impervious cover,* and constructed as part of an overhead electric transmission line, wind-power, cell tower, oil or gas well drilling, sewer or water main, ski lift, or other linear utility project
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of a residential, commercial or institutional development
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of highway construction or reconstruction
- Solar array field areas on slopes greater than 8% that cannot maintain sheet flow using management practices identified in the BB or the DM
- Solar array field areas on slopes less than 8% that will *alter the hydrology from pre- to post-development* conditions
- Solar array field areas with tables that are not elevated high enough to achieve *final stabilization* beneath the tables
- Traditional *impervious areas* associated with solar development (e.g. roads, buildings, transformers)
- Utility pads surfaced with *impervious cover*, including electric vehicle charging stations
- All other *construction activities* that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre- to post-development* conditions, and are not listed in Table 1

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APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators* of *construction activities* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs designed in conformance with the Enhanced Phosphorus Removal Standards included in the DM technical standard.

- Entire New York City Watershed located east of the Hudson River – Figure 1
- Onondaga Lake Watershed – Figure 2
- Greenwood Lake Watershed – Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

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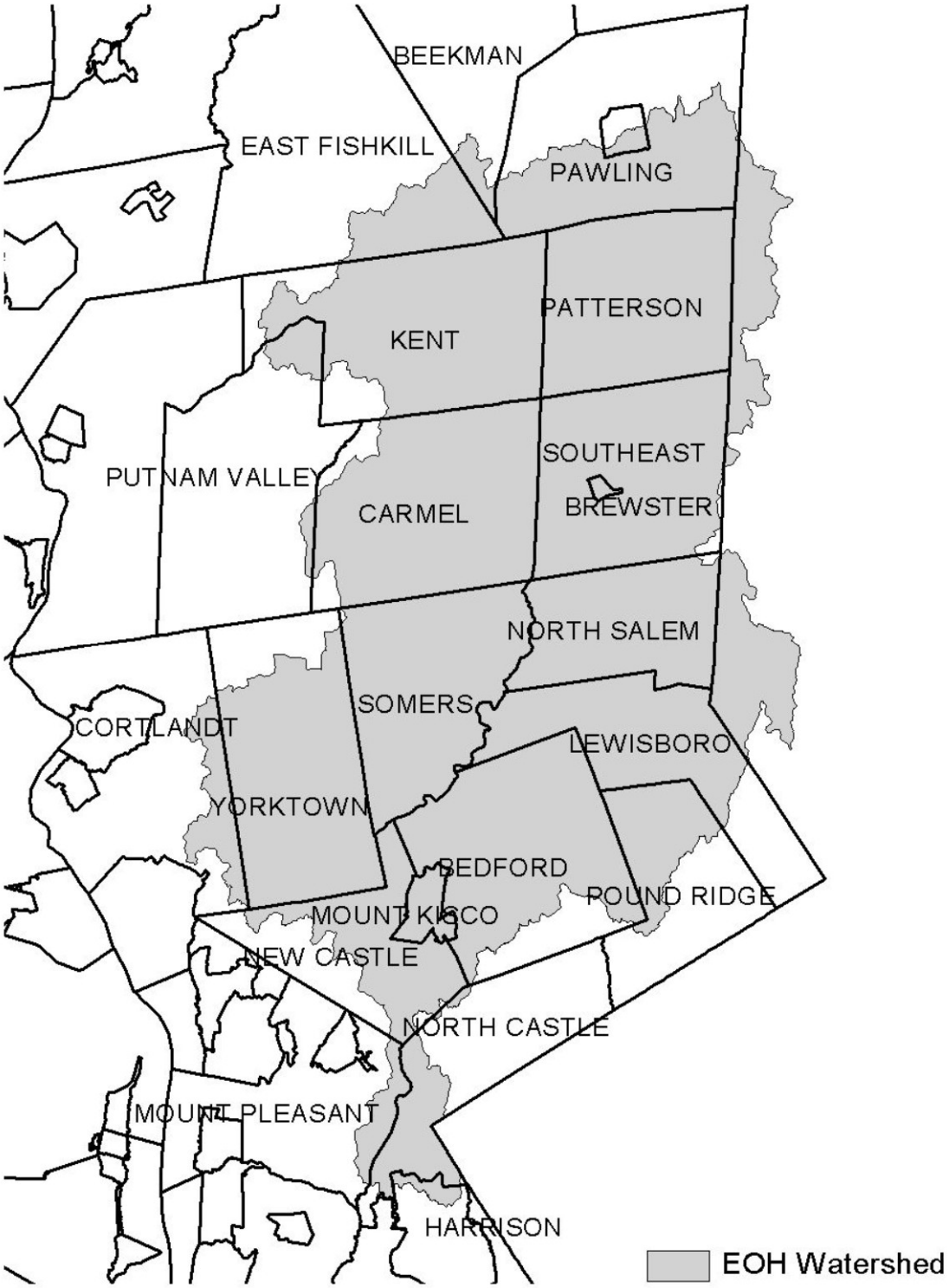
Appendix C

Figure 1 - New York City Watershed East of the Hudson



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Appendix C

Figure 2 - Onondaga Lake Watershed



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Figure 3 - Greenwood Lake Watershed

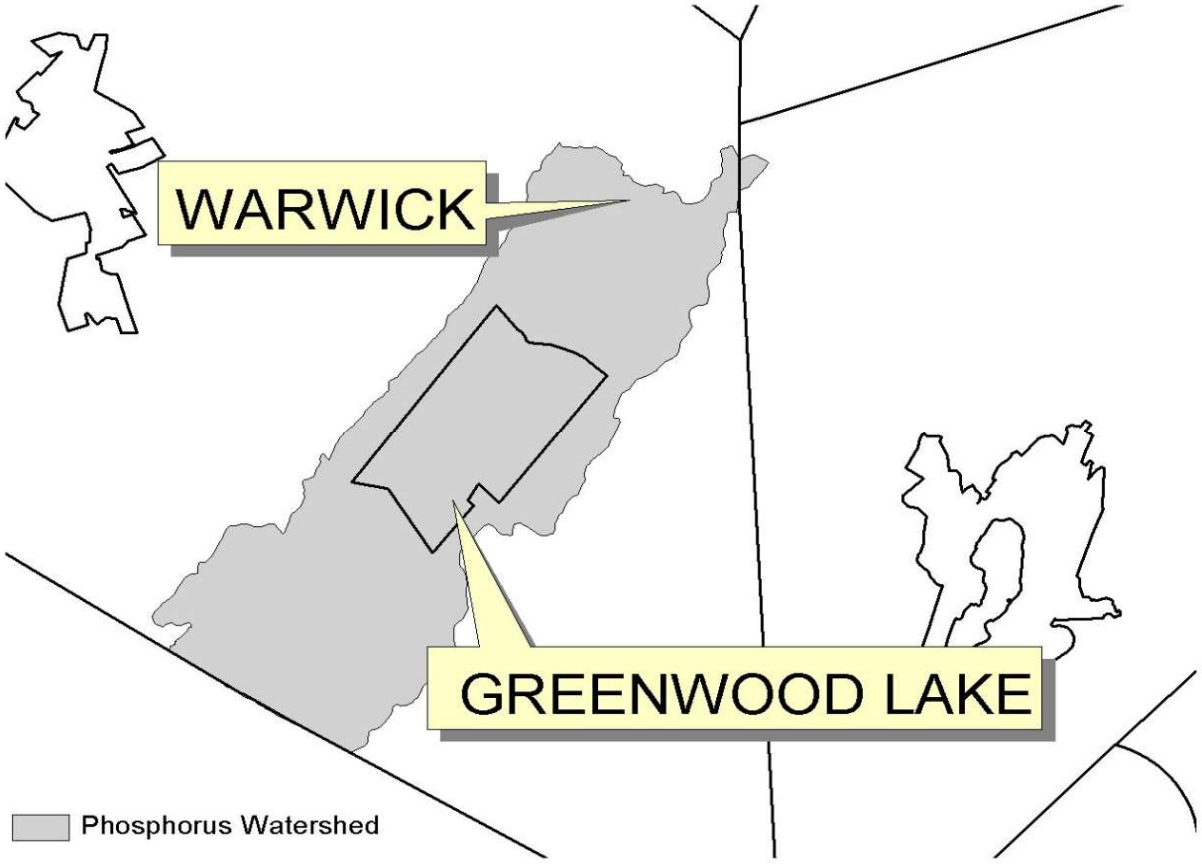

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Figure 4 - Oscawana Lake Watershed

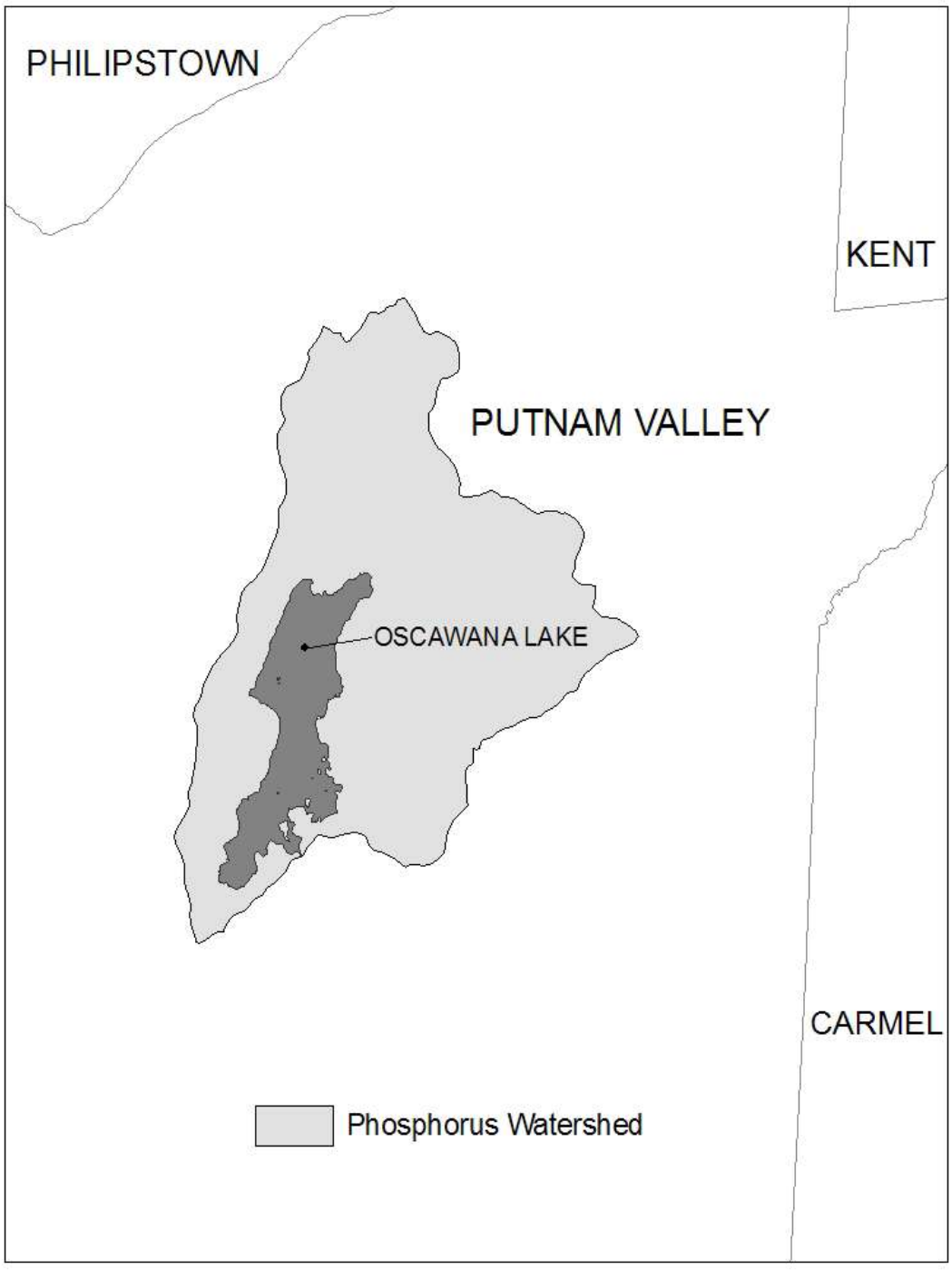

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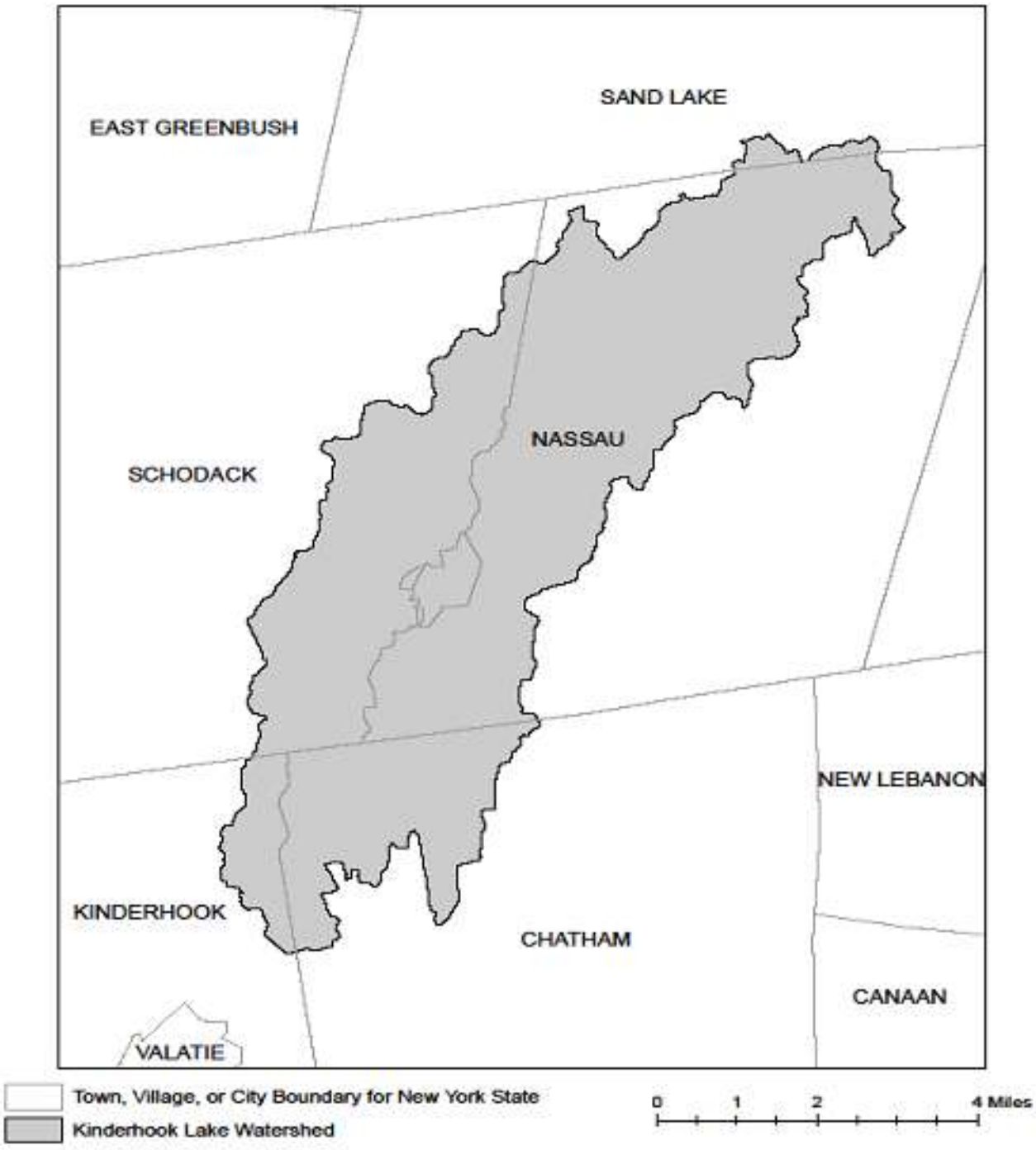
Figure 5 - Kinderhook Lake Watershed



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APPENDIX D – Impaired Waterbodies (by Construction Related Pollutants)

List of waterbodies impaired by *pollutants* related to *construction activity*, including turbidity, silt/sediment, and nutrients (e.g. nitrogen, phosphorus). This list is a subset of "The Final New York State 2018 Section 303(d) List of Impaired Waters Requiring a TMDL" dated June 2020.

County	Waterbody	Pollutant
Albany	Ann Lee (Shakers) Pond, Stump Pond (1201-0096)	Phosphorus
Albany	Lawsons Lake (1301-0235)	Phosphorus
Allegany	Amity Lake, Saunders Pond (0403-0054)	Phosphorus
Allegany	Andover Pond (0403-0056)	Phosphorus
Bronx	Reservoir No.1/Lake Isle (1702-0075)	Phosphorus
Bronx	Van Cortlandt Lake (1702-0008)	Phosphorus
Broome	Blueberry, Laurel Lakes (1404-0033)	Phosphorus
Broome	Fly Pond, Deer Lake (1404-0038)	Phosphorus
Broome	Minor Tribs to Lower Susquehanna (0603-0044)	Phosphorus
Broome	Whitney Point Lake/Reservoir (0602-0004)	Phosphorus
Cattaraugus	Allegheny River/Reservoir (0201-0023)	Phosphorus
Cattaraugus	Beaver Lake/Alma Pond (0201-0073)	Phosphorus
Cattaraugus	Case Lake (0201-0020)	Phosphorus
Cattaraugus	Linlyco/Club Pond (0201-0035)	Phosphorus
Cayuga	Duck Lake (0704-0025)	Phosphorus
Cayuga	Owasco Inlet, Upper, and tribs (0706-0014)	Nutrients
Chautauqua	Chadakoin River and tribs (0202-0018)	Phosphorus
Chautauqua	Hulburt/Clymer Pond (0202-0079)	Phosphorus
Chautauqua	Middle Cassadaga Lake (0202-0002)	Phosphorus
Clinton	Great Chazy River, Lower, Main Stem (1002-0001)	Silt/Sediment
Columbia	Robinson Pond (1308-0003)	Phosphorus
Cortland	Dean Pond (0602-0077)	Phosphorus
Dutchess	Fallkill Creek (1301-0087)	Phosphorus
Dutchess	Hillside Lake (1304-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Silt/Sediment
Erie	Beeman Creek and tribs (0102-0030)	Phosphorus
Erie	Delaware Park Pond (0101-0026)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Silt/Sediment
Erie	Green Lake (0101-0038)	Phosphorus
Erie	Little Sister Creek, Lower, and tribs (0104-0045)	Phosphorus
Erie	Murder Creek, Lower, and tribs (0102-0031)	Phosphorus

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Erie	Rush Creek and tribs (0104-0018)	Phosphorus
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Phosphorus
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Phosphorus
Erie	Scajaquada Creek, Upper, and tribs (0101-0034)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Silt/Sediment
Genesee	Bigelow Creek and tribs (0402-0016)	Phosphorus
Genesee	Black Creek, Middle, and minor tribs (0402 0028)	Phosphorus
Genesee	Black Creek, Upper, and minor tribs (0402-0048)	Phosphorus
Genesee	Bowen Brook and tribs (0102-0036)	Phosphorus
Genesee	LeRoy Reservoir (0402-0003)	Phosphorus
Genesee	Mill Pond (0402-0050)	Phosphorus
Genesee	Oak Orchard Cr, Upper, and tribs (0301-0014)	Phosphorus
Genesee	Oatka Creek, Middle, and minor tribs (0402-0031)	Phosphorus
Genessee	Tonawanda Cr, Middle, Main Stem (0102-0002)	Phosphorus
Greene	Schoharie Reservoir (1202-0012)	Silt/Sediment
Greene	Sleepy Hollow Lake (1301-0059)	Silt/Sediment
Herkimer	Steele Creek tribs (1201-0197)	Phosphorus
Herkimer	Steele Creek tribs (1201-0197)	Silt/Sediment
Kings	Hendrix Creek (1701-0006) 18	Nitrogen
Kings	Prospect Park Lake (1701-0196)	Phosphorus
Lewis	Mill Creek/South Branch, and tribs (0801-0200)	Nutrients
Livingston	Christie Creek and tribs (0402-0060)	Phosphorus
Livingston	Conesus Lake (0402-0004)	Phosphorus
Livingston	Mill Creek and minor tribs (0404-0011)	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs (0402-0033)	Phosphorus
Monroe	Buck Pond (0301-0017)	Phosphorus
Monroe	Cranberry Pond (0301-0016)	Phosphorus
Monroe	Durand, Eastman Lakes (0302-0037)	Phosphorus
Monroe	Lake Ontario Shoreline, Western (0301-0069) 9	Phosphorus
Monroe	Long Pond (0301-0015)	Phosphorus
Monroe	Mill Creek and tribs (0302-0025)	Phosphorus 2
Monroe	Mill Creek/Blue Pond Outlet and tribs (0402-0049)	Phosphorus
Monroe	Minor Tribs to Irondequoit Bay (0302-0038)	Phosphorus
Monroe	Rochester Embayment - East (0302-0002) [9]	Phosphorus
Monroe	Rochester Embayment - West (0301-0068) 9	Phosphorus
Monroe	Shipbuilders Creek and tribs (0302-0026)	Phosphorus 2
Monroe	Thomas Creek/White Brook and tribs (0302-0023)	Phosphorus

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Nassau	Bannister Creek/Bay (1701-0380)	Nitrogen
Nassau	Beaver Lake (1702-0152)	Phosphorus
Nassau	Browswere Bay (1701-0383)	Nitrogen
Nassau	Camaans Pond (1701-0052)	Phosphorus
Nassau	East Meadow Brook, Upper, and tribs (1701-0211)	Silt/Sediment
Nassau	East Rockaway Channel (1701-0381)	Nitrogen
Nassau	Glen Cove Creek, Lower, and tribs (1702-0146)	Silt/Sediment
Nassau	Grant Park Pond (1701-0054)	Phosphorus
Nassau	Hempstead Bay, Broad Channel (1701-0032)	Nitrogen
Nassau	Hempstead Lake (1701-0015)	Phosphorus
Nassau	Hewlett Bay (1701-0382)	Nitrogen
Nassau	Hog Island Channel (1701-0220)	Nitrogen
Nassau	Massapequa Creek, Upper, and tribs (1701-0174)	Phosphorus
Nassau	Milburn/Parsonage Creeks, Upp, and tribs (1701-0212)	Phosphorus
Nassau	Reynolds Channel, East (1701-0215) [12]	Nitrogen
Nassau	Reynolds Channel, West (1701-0216) 12	Nitrogen
Nassau	Tidal Tribs to Hempstead Bay (1701-0218)	Nitrogen
Nassau	Tribs (fresh) to East Bay (1701-0204)	Silt/Sediment
Nassau	Tribs (fresh) to East Bay (1701-0204)	Phosphorus
Nassau	Tribs to Smith Pond/Halls Pond (1701-0221)	Phosphorus
Nassau	Woodmere Channel (1701-0219)	Nitrogen
New York	Harlem Meer (1702-0103)	Phosphorus
New York	The Lake in Central Park (1702-0105)	Phosphorus
Niagara	Bergholtz Creek and tribs (0101-0004)	Phosphorus
Niagara	Hyde Park Lake (0101-0030)	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0053) 9	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0072) 9	Phosphorus
Oneida	Ballou, Nail Creeks (1201-0203)	Phosphorus
Onondaga	Ley Creek and tribs (0702-0001) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nitrogen (NH3, NO2)
Onondaga	Onondaga Creek, Lower (0702-0023) 10	Nutrients (phosphorus)
Onondaga	Onondaga Creek, Lower, and tribs (0702-0023)	Turbidity
Onondaga	Onondaga Creek, Middle, and tribs (0702-0004)	Turbidity
Onondaga	Onondaga Creek, Upper, and tribs (0702-0024)	Turbidity
Ontario	Great Brook and minor tribs (0704-0034)	Phosphorus 2
Ontario	Great Brook and minor tribs (0704-0034)	Silt/Sediment

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Ontario	Hemlock Lake Outlet and minor tribs (0402-0013)	Phosphorus
Ontario	Honeoye Lake (0402-0032)	Phosphorus
Orange	Brown Pond Reservoir (1303-0013)	Phosphorus
Orange	Lake Washington (1303-0012)	Phosphorus
Orange	Minor Tribs to Middle Wallkill (1306-0061)	Phosphorus
Orange	Monhagen Brook and tribs (1306-0074)	Phosphorus
Orange	Orange Lake (1301-0008) [16]	Phosphorus
Orange	Quaker Creek and tribs (1306-0025)	Phosphorus
Orange	Wallkill River, Middle, Main Stem (1306-0038)	Phosphorus
Orange	Wallkill River, Upper, and Minor tribs (1306-0017)	Phosphorus
Orleans	Glenvwood Lake (0301-0041)	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0070) 9	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0071) 9	Phosphorus
Oswego	Lake Neatahwanta (0701-0018)	Nutrients (phosphorus)
Oswego	Pleasant Lake (0703-0047)	Phosphorus
Putnam	Lost Lake, Putnam Lake (1302-0053)	Phosphorus
Putnam	Minor Tribs to Croton Falls Reservoir (1302-0001)	Phosphorus
Queens	Bergen Basin (1701-0009) 18	Nitrogen
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Nitrogen
Queens	Kissena Lake (1702-0258)	Phosphorus
Queens	Meadow Lake (1702-0030)	Phosphorus
Queens	Shellbank Basin (1701-0001) 18	Nitrogen
Queens	Willow Lake (1702-0031)	Phosphorus
Rensselaer	Nassau Lake (1310-0001)	Phosphorus
Rensselaer	Snyders Lake (1301-0043)	Phosphorus
Richmond	Grassmere Lake/Bradys Pond (1701-0357)	Phosphorus
Rockland	Congers Lake, Swartout Lake (1501-0019)	Phosphorus
Rockland	Rockland Lake (1501-0021)	Phosphorus
Saratoga	Ballston Lake (1101-0036)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Silt/Sediment
Saratoga	Lake Lonely (1101-0034)	Phosphorus
Saratoga	Round Lake (1101-0060)	Phosphorus
Saratoga	Tribs to Lake Lonely (1101-0001)	Phosphorus
Schenectady	Collins Lake (1201-0077)	Phosphorus
Schenectady	Duane Lake (1311-0006)	Phosphorus
Schenectady Lake	Mariaville Lake (1201-0113)	Phosphorus
Schuyler	Cayuta Lake (0603-0005)	Phosphorus

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Seneca	Reeder Creek and tribs (0705-0074)	Phosphorus
St.Lawrence	Black Lake Outlet, Black Lake (0906-0001)	Phosphorus
St.Lawrence	Fish Creek and minor tribs (0906-0026)	Phosphorus
Steuben	Smith Pond (0502-0012)	Phosphorus
Suffolk	Agawam Lake (1701-0117)	Phosphorus
Suffolk	Big/Little Fresh Ponds (1701-0125)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Silt/Sediment
Suffolk	Fresh Pond (1701-0241)	Phosphorus
Suffolk	Great South Bay, East (1701-0039)	Nitrogen
Suffolk	Great South Bay, Middle (1701-0040)	Nitrogen
Suffolk	Great South Bay, West (1701-0173)	Nitrogen
Suffolk	Lake Ronkonkoma (1701-0020)	Phosphorus
Suffolk	Mattituck/Marratooka Pond (1701-0129)	Phosphorus
Suffolk	Mill and Seven Ponds (1701-0113)	Phosphorus
Suffolk	Millers Pond (1702-0013)	Phosphorus
Suffolk	Moriches Bay, East (1701-0305)	Nitrogen
Suffolk	Moriches Bay, West (1701-0038)	Nitrogen
Suffolk	Quantuck Bay (1701-0042)	Nitrogen
Suffolk	Shinnecock Bay and Inlet (1701-0033)	Nitrogen
Suffolk	Tidal Tribs to West Moriches Bay (1701-0312)	Nitrogen
Sullivan	Bodine, Mongomery Lakes (1401-0091)	Phosphorus
Sullivan	Davies Lake (1402-0047)	Phosphorus
Sullivan	Evens Lake (1402-0004)	Phosphorus
Sullivan	Pleasure Lake (1402-0055)	Phosphorus
Sullivan	Swan Lake (1401-0063)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Silt/Sediment
Ulster	Ashokan Reservoir (1307-0004)	Silt/Sediment
Ulster	Esopus Creek, Lower, Main Stem (1307-0010) [17]	Turbidity
Ulster	Esopus Creek, Middle, Main Stem (1307-0003) 17	Turbidity
Ulster	Esopus Creek, Upper, and minor tribs (1307-0007)[3]	Silt/Sediment
Ulster	Wallkill River, Lower, Main Stem (1306-0027)	Phosphorus
Warren	Hague Brook and tribs (1006-0006)	Silt/Sediment
Warren	Huddle/Finkle Brooks and tribs (1006-0003)	Silt/Sediment
Warren	Indian Brook and tribs (1006-0002)	Silt/Sediment
Warren	Lake George (1006-0016) and tribs	Silt/Sediment
Warren	Tribs to Lake George, East Shore (1006-0020)	Silt/Sediment
Warren	Tribs to Lake George, Lk.George Village (1006-0008)	Silt/Sediment

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Washington	Wood Cr/Champlain Canal and tribs (1005-0036)	Phosphorus
Westchester	Lake Katonah (1302-0136)	Phosphorus
Westchester	Lake Lincolndale (1302-0089)	Phosphorus
Westchester	Lake Meahagh (1301-0053)	Phosphorus
Westchester	Lake Mohegan (1301-0149)	Phosphorus
Westchester	Lake Shenorock (1302-0083)	Phosphorus
Westchester	Mamaroneck River, Lower (1702-0071)	Silt/Sediment
Westchester	Mamaroneck River, Upp, & minor tribs (1702-0123)	Silt/Sediment
Westchester	Saw Mill River (1301-0007)	Phosphorus
Westchester	Saw Mill River, Middle, and tribs (1301-0100)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Silt/Sedimnt
Westchester	Silver Lake (1702-0040)	Phosphorus
Westchester	Teatown Lake (1302-0150)	Phosphorus
Westchester	Truesdale Lake (1302-0054)	Phosphorus
Westchester	Wallace Pond (1301-0140)	Phosphorus

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

APPENDIX E – List of NYSDEC Regional Offices

Region	Covering the following counties:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) Permit Administrators	DIVISION OF WATER (DOW) Water (SPDES) Program
1	Nassau and Suffolk	50 Circle Road Stony Brook, NY 11790 Tel. (631) 444-0365	50 Circle Road Stony Brook, NY 11790-3409 Tel. (631) 444-0405
2	Bronx, Kings, New York, Queens and Richmond	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4997	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4933
3	Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester	21 South Putt Corners Road New Paltz, NY 12561-1696 Tel. (845) 256-3059	220 White Plains Road, Suite 110 Tel. (914) 428 - 2505
4	Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2069	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2045
5	Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington	1115 State Route 86, Po Box 296 Ray Brook, NY 12977-0296 Tel. (518) 897-1234	232 Golf Course Road Warrensburg, NY 12885-1172 Tel. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7438	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7165	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7070

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix E

Forms

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.

Project/Site Name: Dodge Road Single-Family Subdivision

eNOI Submission ID: _____

eNOI Submitted by: ☐ **Owner/Operator** ☑ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Joseph		Rubino
Owner/Operator First Name	MI	Owner/Operator Last Name

Signature _____

Date 2/6/25

Revised: January 2025

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:	Dodge Road Single-Family Subdivision
eNOI Submission ID:	
Owner/Operator Name:	Joseph Rubino

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Christopher		Wood
SWPPP Preparer First Name	MI	SWPPP Preparer Last Name



Signature

02/05/25

Date

Revised: January 2025

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

STORM WATER POLLUTION PREVENTION PLAN
CONTRACTOR'S CERTIFICATION STATEMENT

Pleasant Woods Land Clearing and Grading and all subsequent activities covered under SPDES Permit

CONTRACTOR'S CERTIFICATION:

"I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP for the construction site identified in such SWPPP as a condition of authorization to discharge storm water. I also understand that the operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System (SPDES) general permit for storm water discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards."

Note: The contractor shall have at least one NYSDEC trained individual onsite at all times when earthwork and other SWPPP associated work is being performed from each contractor(s) and subcontractor(s). Each contractor(s) and subcontractor(s) shall provide copies of these individuals' certifications to the Town of Hamburg.

Name: _____
(Print)

Signature: _____

Title: _____

Company Name: _____

Address: _____

Telephone Number: _____

Date: _____

Scope of Services: _____

Trained Individual(s) Responsible for Implementation: _____

This form must be signed by a responsible corporate officer or other party meeting the "Signatory Requirements" of the NYSDEC SPDES General Permit

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505
(NOTE: Submit completed form to address above)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity

Please indicate your permit identification number: NYR ____ ____ ____ ____ ____ ____

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person: | 4a.Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. □ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. ***Date final stabilization completed** (month/year): _____

9b. □ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR ____ ____ ____ ____ ____ ____
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. □ Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? □ yes □ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? □ yes □ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

_____

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? □ yes □ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

□ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.

□ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).

□ For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.

□ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____ (acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? □ yes □ no

(If Yes, complete section VI - "MS4 Acceptance" statement

V. Additional Information/Explanation:

(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:	
Title/Position:	
Signature:	Date:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued	
VII. Qualified Inspector Certification - Final Stabilization:	
I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.	
Printed Name:	
Title/Position:	
Signature:	Date:
VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):	
I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.	
Printed Name:	
Title/Position:	
Signature:	Date:
IX. Owner or Operator Certification	
I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.	
Printed Name:	
Title/Position:	
Signature:	Date:

(NYS DEC Notice of Termination - January 2015)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix F

NYSDEC Notice of Termination (NOT)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix G

Construction Documents

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Single Family Subdivision

Amherst, New York

AGENCIES

ENGINEERING DEPARTMENT
NAME/TITLE: JEFFERY BURROUGHS, P.E. – TOWN ENGINEER
COMPANY/DEPT: TOWN OF AMHERST ENGINEERING DEPARTMENT
ADDRESS: 1100 NORTH FOREST ROAD
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7154

PLANNING & ZONING DEPARTMENT
NAME/TITLE: DANIEL HOWARD – PLANNING DIRECTOR
COMPANY/DEPT: TOWN OF AMHERST PLANNING DEPARTMENT
ADDRESS: 5583 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7051

BUILDING DEPT.
NAME/TITLE: BERKE, MARK S. – COMMISSIONER OF BUILDING
COMPANY/DEPT.: TOWN OF AMHERST BUILDING DEPT.
ADDRESS: 5583 MAIN ST.
AMHERST, NEW YORK 14221
TELEPHONE 716–631–7080

ECDOH
NAME/TITLE:
COMPANY/DEPT:. ERIE COUNTY DEPARTMENT OF HEALTH
ADDRESS: 503 KENSINGTON AVE
BUFFALO, NEW YORK 14214
TELEPHONE 716–961–6854

NYSDEC
NAME/TITLE:
COMPANY/DEPT: NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
ADDRESS: 700 DELAWARE AVE.
BUFFALO, NEW YORK 14209
TELEPHONE 716–851–7070

UTILITIES

NATURAL GAS
COMPANY/DEPT:. NATIONAL FUEL GAS CORP.
ADDRESS: 6363 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–857–7000

TELEPHONE COMPANY
COMPANY/DEPT: VERIZON
ADDRESS: 65 FRANKLIN STREET
BUFFALO, NEW YORK 14203
TELEPHONE 716–840–8748

CABLE COMPANY
COMPANY/DEPT: TIME WARNER
ADDRESS: 789 CHURCH ROAD
WEST SENECA, NEW YORK
TELEPHONE 716–558–8615

ELECTRIC COMPANY
COMPANY/DEPT: NATIONAL GRID
ADDRESS: 144 KENSINGTON AVENUE
BUFFALO, NEW YORK 14214
TELEPHONE 716–236–2738

WATER
COMPANY/DEPT:. ERIE COUNTY WATER AUTHORITY
ADDRESS: 3030 UNION ROAD
CHEEKTOWAGA, NEW YORK 14227
TELEPHONE 716–684–1510

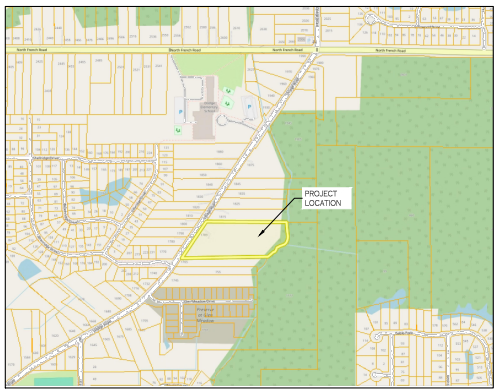
DIG SAFELY NEW YORK
TELEPHONE 1–800–962–7962

DESIGN CONSULTANTS

PROJECT SURVEYOR
COMPANY/DEPT: NUSSBAUMER & CLARKE, INC.
ADDRESS: 3556 LAKESHORE ROAD, SUITE 500
BUFFALO, NEW YORK 14219
TELEPHONE 716–827–8000

OWNER/DEVELOPER

NAME: JOE RUBINO
ADDRESS 5500 MAIN STREET, SUITE 343
WILLIAMSVILLE, NY 14221
CONTACT: JOE RUBINO
TELEPHONE 716-510-4338



LOCATION MAP
NOT TO SCALE

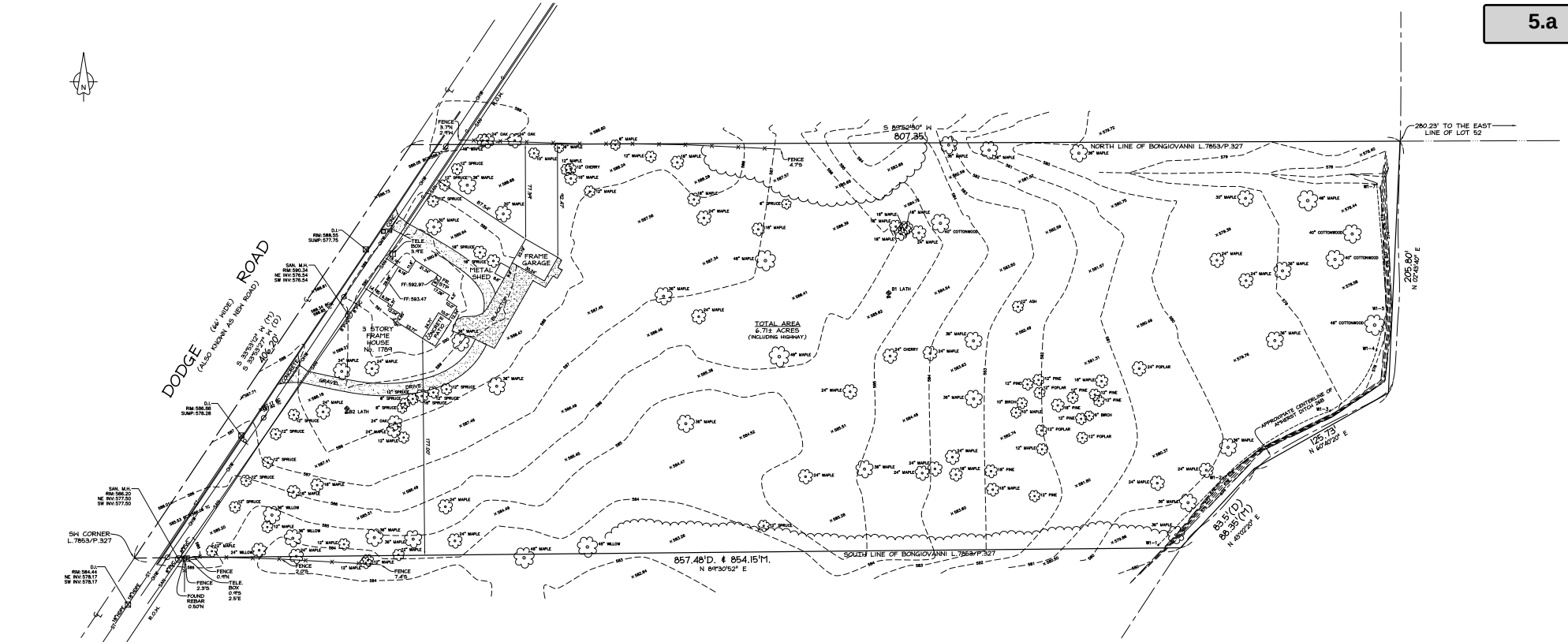
CARMINAWOOD DESIGN

FEBRUARY 2025

DRAWING NO.	DRAWING TITLE
–	COVER SHEET
–	LAND SURVEY (PREPARED BY NUSSBAUMER & CLARKE
C–001	DEMOLITION & EROSION CONTROL PLAN
C–002	DEMOLITION & EROSION CONTROL DETAILS
C–100	LAYOUT PLAN
C–200	GRADING PLAN
C–201	ROAD PROFILE
C–300	STORM WATER MANAGEMENT PLAN
C–301	BASIN DETAILS
C–302	STORM DRAINAGE DETAILS
C–303	STORM DRAINAGE DETAILS
C–400	UTILITY PLAN
C–401	UTILITY PROFILES
C–402	SANITARY SEWER DETAILS
C–403	SANITARY SEWER DETAILS
C–404	SANITARY SEWER NOTES
C–405	WATER DETAILS
C–406	WATER DETAILS
C–407	LIGHTING DETAILS
C–408	LIGHTING DETAILS
C–409	LIGHTING DETAILS

Single Family Subdivision
1789 Dodge Road
Amherst, New York

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge



UTILITY NOTE

UTILITY COMPANIES CONTACTED:

CHARTER COMMUNICATIONS BUFFALO – HAS RESPONDED – DOES NOT HAVE UNDERGROUND UTILITIES ON THIS PROPERTY.

ERIE COUNTY WATER AUTHORITY – HAS RESPONDED – DOES NOT HAVE UNDERGROUND UTILITIES ON THIS PROPERTY.

NATIONAL FUEL GAS – HAS RESPONDED – APPROXIMATE LOCATION OF UNDERGROUND GAS LINES ARE PLOTTED HEREON.

NATIONAL GRID – HAS RESPONDED – DOES NOT HAVE UNDERGROUND UTILITIES ON THIS PROPERTY.

TOWN OF AMHERST – HAS RESPONDED – APPROXIMATE LOCATION OF UNDERGROUND SANITARY SEWER LINES ARE PLOTTED HEREON.

VERIZON – HAS RESPONDED – HAS NOT PROVIDED DESIGN PLANS.

SOURCE: DIG SAFELY NY

HORIZONTAL DATUM & COORDINATE SYSTEM

DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) (1996 ADJUSTMENT)
COORDINATE SYSTEM: UNITED STATES STATE PLANE SYSTEM FOR NEW YORK STATE, WEST ZONE

VERTICAL DATUM

ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

CONTOURS ARE AT 1' INTERVALS

LEGEND

- SANITARY MANHOLE
- DRAINAGE INLET
- POWER UTILITY POLE
- GUY ANCHOR
- TELEPHONE BOX
- SPEED SIGN
- SOIL BORINGS
- WETLAND FLAG
- TREE AS NOTED
- MAILBOX
- SPOT ELEVATION
- ELEVATION– BOTTOM OF CURB
- ELEVATION– TOP OF CURB
- OHW — POWER OVERHEAD WIRES
- CURB
- G — UNDERGROUND GAS LINE
- SAN — SANITARY SEWER
- ST — STORM SEWER
- CENTERLINE SWALE
- CENTERLINE DITCH
- TOP OF SLOPE
- BOTTOM OF SLOPE
- WETLAND LINE
- TREE LINE

SCALE

0' 40' 80' 120'

1" = 40'
(IN FEET)

NOTICE: NOT ALL PROPERTY CORNERS MAY BE SET OR FOUND AT PROPERTY CORNERS

3556 Lake Shore Road, Suite 500, Buffalo NY 14219
p (716) 827-8000 f (716) 270-6091 www.nussclarke.com

This survey was prepared without the benefit of an abstract of title and is subject to any state of facts that may be revealed by an examination of such.

Unauthorized alterations or additions to this survey will void the certification unless they bear the seal and signature of the surveyor and the date of such alteration or addition. Certifications indicated hereon signify that this survey conforms to the current NYSDOS code of practice for land surveys adopted by the New York State Association of Professional Land Surveyors, Inc. pursuant to section 7209, subdivision 2 of the New York State Education Law.

NUSSBAUMER & CLARKE, INC. ENGINEERS AND SURVEYORS EST. 1972

TOPOGRAPHIC SURVEY

1789 Dodge Road
Part of Lot 52, Township 12, Range 7
Holland Land Company's Survey
Town of Amherst
County of Erie, State of New York
Date of Survey: 12/30/2020

Project No. 2012-1527A

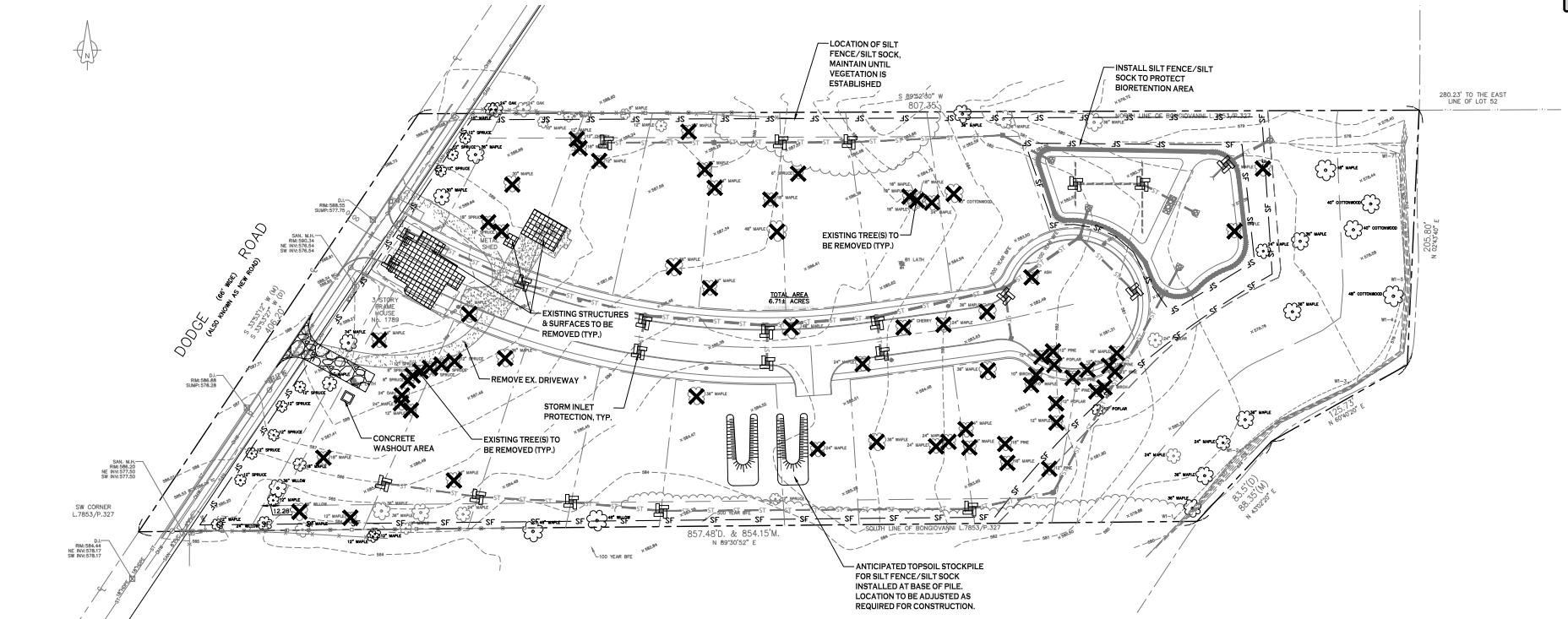
D:\Users\mervin\Documents\NLJE_SIG.tif

Member Land Surveyors Association Inc. 1960 MEMBER

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

All rights Reserved. Reuse of these documents without the expressed written permission of CARMINAWOOD DESIGN is prohibited. WARNING it is a violation of article 145 section 7209-a and 7209 of the New York State Education Law for any person, unless acting under the direction of a registered architect, licensed engineer or land surveyor duly registered in the State of New York, to alter any item on this drawing in any way. If this drawing is altered, the alterer is required, by law, to affix his/her seal to the drawing and specific description of the alteration.

© CARMINA WOOD DESIGN



DEMOLITION & EROSION CONTROL PLAN

SCALE: 1"=40'

EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY SILT SOCK BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT SOCK BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE OF TOPSOIL MUST BE FOLLOWED. TOPSOIL MAY NOT BE REMOVED WITHOUT A PERMIT.
3. ALL SILT SOCK BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND SPREAD WATER AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN/CITY.
9. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
10. INSTALL TEMPORARY SILT SOCK AROUND THE BASE OF STOCKPILES.

DEMOLITION NOTES:

1. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES AND CATCH BASINS.
2. TEMPORARY SILT SOCK AND STRAW BALES TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
3. CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES WHERE ACCESSING THE SITE FROM PAVED ROADWAYS. STORM DRAINAGE INLETS THAT INTERFERE WITH CONSTRUCTION ENTRANCE TO BE PROTECTED WITH SILT SACK AND OTHER PROPER TEMPORARY INLET PROTECTION MEASURES.
4. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH NYS M.U.T.C.D. STANDARDS PRIOR TO STARTING WORK.
5. COVERED DUMPSTERS SHALL BE PROVIDED ONSITE AS REQUIRED FOR CONSTRUCTION WASTE.
6. CONTRACTOR TO PROTECT ALL TREES/BRUSH NOT DISTURBED BY CONSTRUCTION ACTIVITY.
7. REMOVE EXISTING HOUSE TO INCLUDE ALL FOUNDATIONS, PORCHES, STEPS, ETC. ALL UTILITY CONNECTIONS TO BE ABANDONED AND/OR REMOVED PER COUNTY, TOWN, AND UTILITY COMPANY REQUIREMENTS.
8. EXISTING CURB AT DRIVEWAY ENTRANCE TO BE REMOVED SHALL BE SAW CUT FULL-DEPTH AND NEATLY REMOVED FROM THE BACKSIDE, EXISTING PAVEMENT SHALL NOT BE DISTURBED AND THE PAVEMENT EDGE SHALL BE USED AS FOR FOR PLACING NEW CURB.

CONSTRUCTION SEQUENCE OF MAJOR ACTIVITIES:

1. CONSTRUCT TEMPORARY CONSTRUCTION EXIT, INSTALL PERIMETER SILT SOCK AND DRAINAGE INLET PROTECTION.
2. CLEAR AND GRUB SITE.
3. COMMENCE SITE GRADING.
4. INSTALL PROPOSED UTILITIES. PROVIDE EROSION AND SEDIMENT CONTROL DURING UTILITY CONSTRUCTION.
5. CONSTRUCTION OF HOME, DRIVEWAY, GRADING OF THE REMAINING SITE. PROTECT DRAINAGE SWALES DURING HOME CONSTRUCTION.
6. REPLACE TOPSOIL WHERE NEEDED AND SEED ALL DISTURBED AREA.
7. AFTER SITE STABILIZATION REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS.

NOTE: SWALE PROTECTION AND EROSION AND SEDIMENT CONTROLS FOR THIS PROJECT ARE ALSO REQUIRED DURING HOME CONSTRUCTION.

DEMOLITION & EROSION CONTROL LEGEND

- PROPOSED SILT FENCE — SF
- EXISTING TREE TO BE REMOVED
- PROPOSED STORM INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- APPROXIMATE LIMITS OF EXISTING BUILDING FOUNDATION, WALL, SLAB, SUPERSTRUCTURE, ETC. TO BE REMOVED
- EXISTING TREE TO BE REMOVED

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40' 0 40 80Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD

Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	9/24/2024

DRAWING NAME: Site Layout

Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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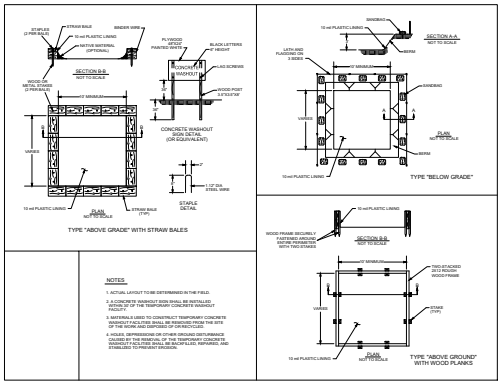
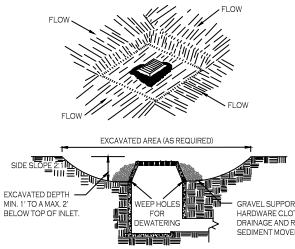


CONCRETE WASHOUT

NOT TO SCALE



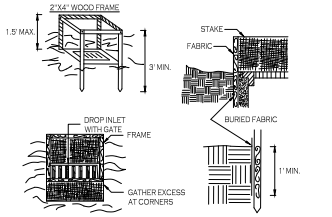
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES. FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



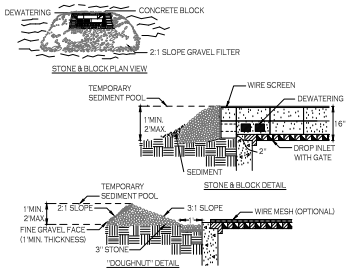
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40#85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUN DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

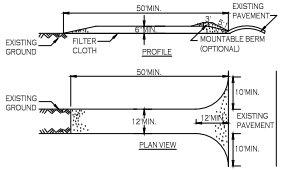
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION

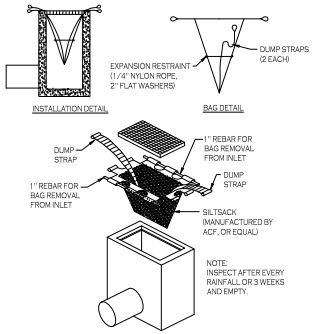


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

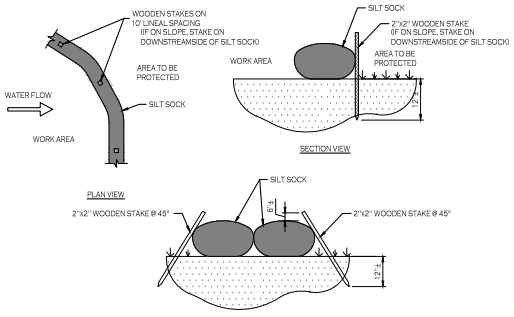
STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



SILT SACK DETAIL

NOT TO SCALE



NOTES:

CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

SILT SOCK DETAIL

N.T.S.

TOWN OF AMHERST APPROVAL BOX:

5.a

CARMINAWO

Single Family Subdivision

REVISIONS:

No.	Description	Date
	Rev. Per Town Comments	9/19/2024
	Rev. Per Town Comments	10/14/2024

DRAWING NA

Demolitic
Erosion C
Details

Date:
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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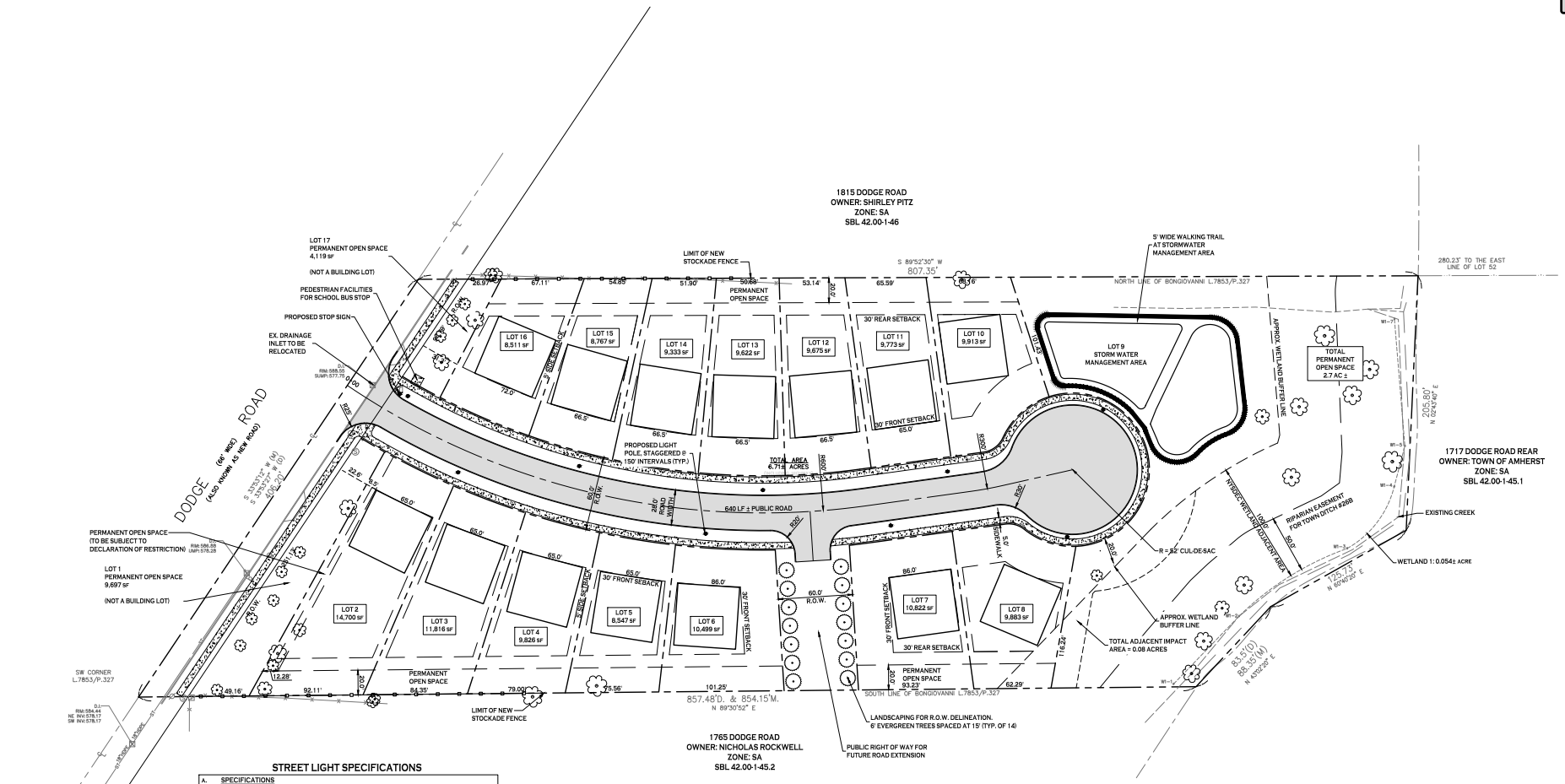

LAYOUT PLAN

SCALE: 1"=40'

STREET LIGHT SPECIFICATIONS

A. SPECIFICATIONS
I. FIXTURE (LUMINAIRE): TOWN STANDARD TRADITIONAL POST TOP - SIGNIFY LED TOWNVIEW
A.A. MODEL NUMBER : TVPR-S3-S-16-G1-7-3W-730-A-N-R7-N-SP1-N-N-N-BKS
II. CORRELATED COLOR TEMPERATURE (CCT): 3,000K
I. FIXTURE HEIGHT: 16'
IV. DISTRIBUTION TYPE: 3 UNLESS LIGHT IS IN MEDIAN OR HAS SIMILAR APPLICATION MAY REQUIRE IN WHICH CASE 5. IF DISTRIBUTION OTHER THAN TYPE 3 IS USED, ADJUSTMENT TO MODEL NUMBER WILL BE REQUIRED.
V. WATTAGE: 35W
VI. NODE TYPE: WIRELESS LIGHTING CONTROL NODE COMPATIBLE WITH TOWN'S SYSTEM (VENDOR - VERIZON), INCLUDING INTEGRATION INTO EXISTING ASSET MANAGEMENT SYSTEM.
VII. POLES LABELED ACCORDING TO NGRID REQUIREMENTS.
VIII. SPACING: TYPICALLY, 150 FEET SPACING STAGGERED, UNLESS ROADWAY ARRANGEMENTS REQUIRE OTHERWISE, SUCH AS INTERSECTIONS OR COL-DES-SACS. POLES SHOULD BE LOCATED CENTERED BETWEEN EDGE OF ROAD AND SIDEWALK OR NO MORE THAN 3FT FROM THE EDGE OF THE ROAD. POLES SHOULD BE NO LESS THAN 10FT AWAY FROM TREES, 5 FT FROM MAILBOXES, AND 3FT FROM THE EDGE OF DRIVEWAYS.
IX. POLE TYPE: 16' NEW DIRECT BURIED TAPERED ALUMINUM POLE WITH ACCESS DOOR IN BASE OF POLE
A.A. MANUFACTURER: HAPCO (RTA16BS) (OR APPROVED EQUAL)

B. ILLUMINATION LEVEL:
I. ALL STREET LIGHTING SHALL BE DESIGNED SO THAT THE LEVEL OF ILLUMINATION, AS MEASURED IN FOOTCANDLES AT ANY ONE POINT, MEETS THE STANDARDS SET BY THE LATEST VERSION OF AMERICAN NATIONAL STANDARD'S ROADWAY LIGHTING ANSI APPROVED SPECIFICATION.
II. MINIMUM AND MAXIMUM LEVELS ARE MEASURED ON THE PAVEMENT WITHIN THE LIGHTED AREA. AVERAGE LEVEL IS THE OVERALL, GENERALIZED AMBIENT LIGHT LEVEL, AND IS MEASURED AS A NOT-TO-EXCEED VALUE. THE AVERAGE LEVEL SHALL BE CALCULATED USING ONLY THE AREA OF THE SITE INTENDED TO RECEIVE ILLUMINATION.
III. STREET LIGHTING SHALL NOT BE ORIENTED SO AS TO DIRECT GLARE OR EXCESSIVE ILLUMINATION ONTO PRIVATE PROPERTY.
IV. SUBMIT PHOTOMETRIC MODELS TO THE TOWN FOR REVIEW AND APPROVAL..

C. REQUIREMENTS:
I. REFER TO NATIONAL GRID UNDERGROUND REQUIREMENTS
II. REFER TO OTHER APPLICABLE TOWN CODES

TOWN OF AMHERST ZONING CONDITIONS

THE SIX ZONING CONDITIONS IMPOSED BY THE TOWN BOARD ON JULY 22, 2024 IN CONNECTION WITH THE REZONING FROM 'SA' TO 'R-3' WERE AS FOLLOWS

1. THAT FUTURE DEVELOPMENT OF THE SITE SHALL BE LIMITED TO SINGLE FAMILY DETACHED RESIDENTIAL USES WITH A MAXIMUM YIELD OF FIFTEEN (15) HOMES.
2. THAT ANY FUTURE DEVELOPMENT OF A PRINCIPAL OR ACCESSORY STRUCTURE OR USES IN THE 2.7 ACRES OF PERMANENT OPEN SPACE SHALL BE PROHIBITED. THE ONLY PROPOSED DEVELOPMENT OF THE PORTION OF HE PERMANENT OPEN SPACE IS LIMITED TO REQUIRED STORMWATER MANAGEMENT SYSTEM IMPROVEMENTS AND UTILITY INFRASTRUCTURE.
3. THAT A PROTECTIVE COVENANT/CONSERVATION EASEMENT SHALL BE PLACED ON ALL PROPOSED OPEN SPACE AND CONFIRM TOTAL ACREAGE TO BE UNDERTHE CONTROL OF A HOMEOWNERS ASSOCIATION.
4. THAT THE FINAL PLAT DESIGN SHALL INCLUDE A RIGHT-OF-WAY ACCESS TO A POTENTIAL FUTURE YOUNGS ROAD EXTENSION.
5. THAT THE LANDSCAPING AND SCREENING TO BE PROVIDED IN THE PERMANENT OPEN SPACE ALONG THE DODGE ROAD FRONTAGE OF THE PROJECT SITE SHALL REQUIRE THE APPROVAL OF THE PLANNING BOARD AT THE PRELIMINARY PLAT APPLICATION STAGE OF THE SUBDIVISION REVIEW PROCESS.
6. ANY FUTURE PRELIMINARY PLAT THAT SHALL BE SUBMITTED TO THE PLANNING BOARD SHALL CONSIDER PROVISIONS FOR FUTURE ACCESS TO THE NORTH AND SOUTH OF THE SUBJECT PROPERTY.

SITE DATA (REZONED FROM SA TO R-3 ZONING)

AREA = 6.7 ACRES ±

MIN. LOT WIDTH = 65 FT INTERIOR LOTS
MIN. LOT WIDTH = 75 FT CORNER LOTS

MIN. LOT AREA = 8,450 SF INTERIOR LOTS
MIN. LOT AREA = 9,750 SF CORNER LOTS

FRONT SETBACK = 30 FT (OFF EDGE OF PVMT)
SIDE SETBACK = 5 FT
REAR SETBACK = 30 FT

MAXIMUM LOT COVERAGE = 35%
MAXIMUM BUILDING HEIGHT = 35 FT

MINIMUM FLOOR AREA = 1,000 SF (1 STORY)
MINIMUM FLOOR AREA = 1,200 SF (2 STORIES)

SITE LEGEND

PROPERTY LINE
PROPOSED CONCRETE CURB
PROPOSED SIDEWALK / CONCRETE PAD
PROPOSED SIGN
PROPOSED STANDARD DUTY ASPHALT PAVEMENT
PROPOSED LIGHT POLE

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40' 0 40 80Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD

Single Family Subdivision

REVISIONS:			
No.	Description	Date	
1	Rev. Per Town Comments	9/19/2024	
2	Rev. Per Town Comments	10/24/2024	

DRAWING NAME: Site Layout

Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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GRADING PLAN

SCALE: 1"=40'

PROPOSED GRADING LEGEND

PROPOSED CONTOUR	101
PROPOSED SPOT ELEVATION	100.80
PROPOSED TOP/BOTTOM OF CURB ELEV.	TC 100.50 BC 100.00
PROPOSED CATCH BASIN	CB
PROPOSED MANHOLE	MH
PAVEMENT/GROUND SLOPE	

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40 0 40 80FT.
40'

TOWN OF AMHERST APPROVAL BOX:

CARMINAWO

Single Family Subdivision

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No.	Description	Date
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DRAWING NA
Grading P

Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO.

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HORIZ. 30' 15' 0' 30' 60ft.

VERT. 5' 0' 5' 10ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD

Single Family Subdivision

REVISIONS:		
No.	Description	Date
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2	Rev. Per Town Comments	10/24/2024

DRAWING NAME

Road Pro

Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO. 20.247

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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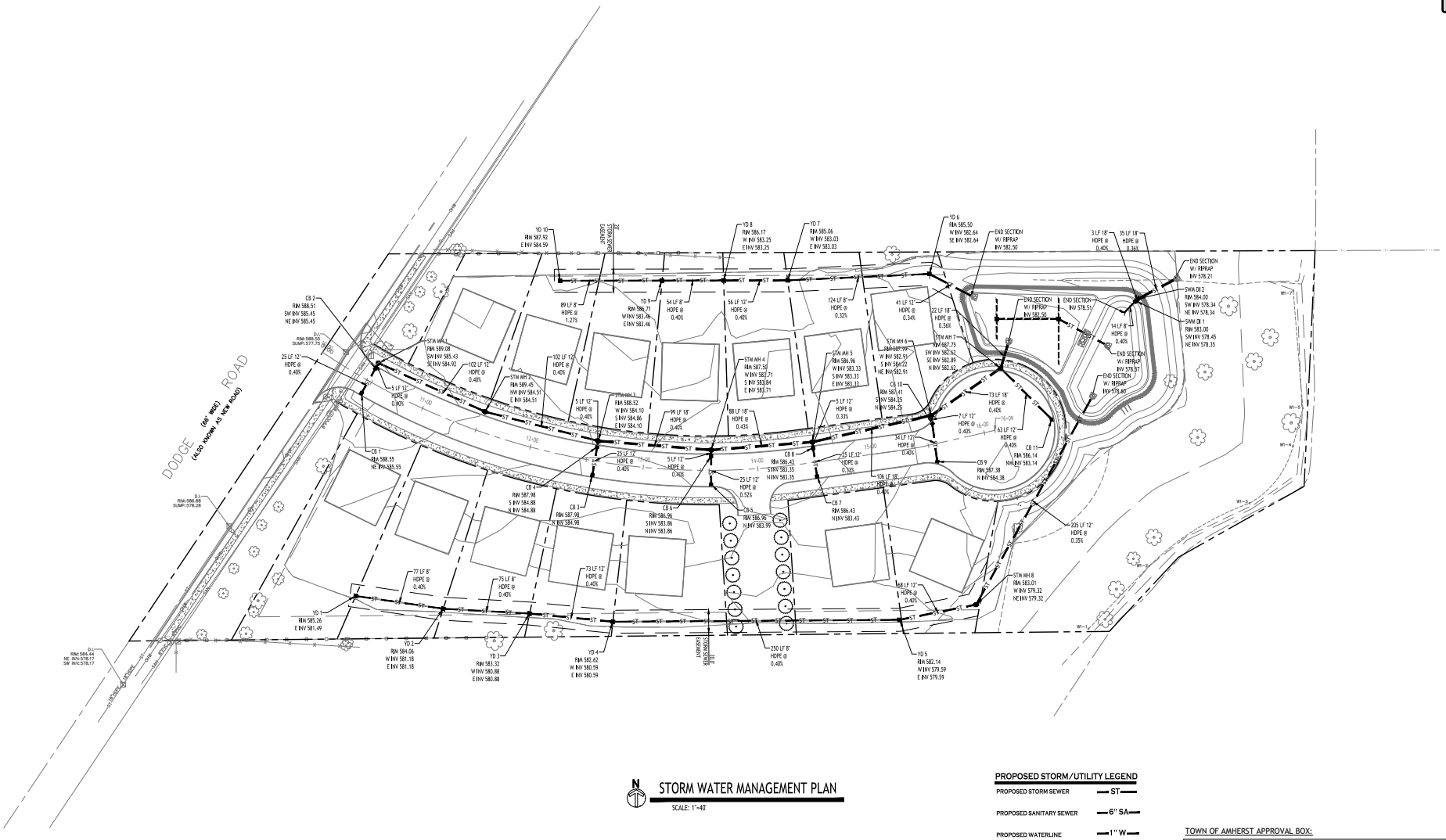

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STORM WATER MANAGEMENT PLAN

SCALE: 1"=40'

PROPOSED STORM/UTILITY LEGEND

PROPOSED STORM SEWER	ST
PROPOSED SANITARY SEWER	6" SA
PROPOSED WATERLINE	1" W
PROPOSED CATCH BASIN	CB
PROPOSED MANHOLE	MH
PROPOSED GATE VALVE	GV

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40' 40 0 40 80FT.

TOWN OF AMHERST APPROVAL BOX:

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Single Family Subdivision

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DRAWING NA
Storm Wa
Managem

Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO.

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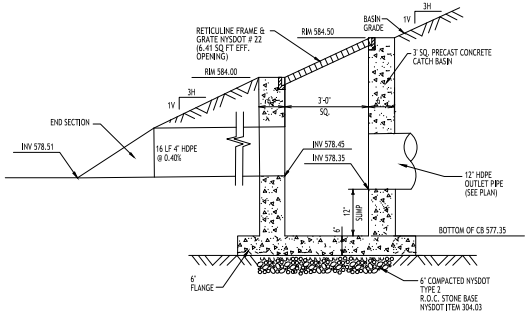
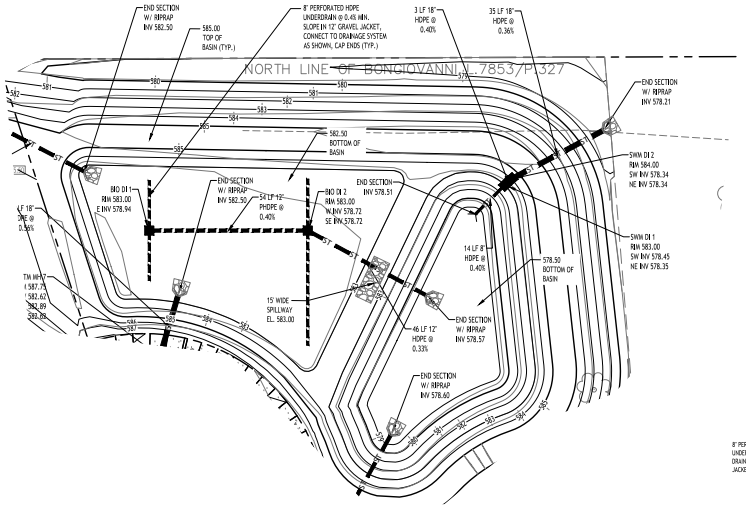


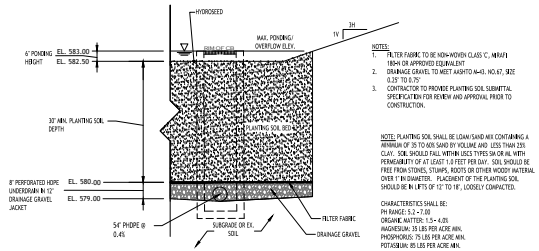
RETENTION BASIN OUTLET STRUCTURE - SWM DI 1

N.T.S.



Detention Basin Plan

SCALE: 1"=20'



BIORETENTION AREA - TYPICAL SECTION

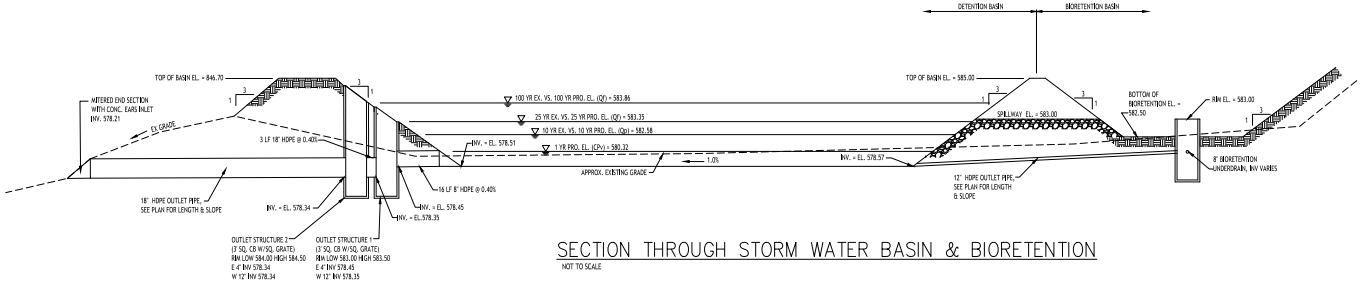
NOTES:
1. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180-N OR APPROVED EQUIVALENT
2. DRAINAGE GRAVEL TO MEET AASHTO M-43, NO.67, SIZE 0.25" TO 0.75"
3. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

NOTE: PLANTING SOIL SHALL BE LOAM/SAND MIX CONTAINING A MINIMUM OF 35 TO 60% SAND BY VOLUME AND LESS THAN 25% CLAY. SOIL SHOULD FALL WITHIN USES TYPES SM OR ML WITH PERMEABILITY OF AT LEAST 1.0 FEET PER DAY. SOIL SHOULD BE FREE FROM STONES, STUMPS, ROOTS OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED.

CHARACTERISTICS SHALL BE:
PH RANGE: 5.2 - 7.00
ORGANIC MATTER: 1.5 - 4.0%
MAGNESIUM: 35 LBS PER ACRE MIN.
PHOSPHORUS: 75 LBS PER ACRE MIN.
POTASSIUM: 85 LBS PER ACRE MIN.
SOLUBLE SALTS: 500 PPM
CLAY: 10 TO 25%
SILT: 30 TO 55%
SAND: 35 TO 60%

BIO-RETENTION AREA SEEDING SPEC (Northeast Wetland Grass Seed Mix):

Seed Mixture	Variety	Percent by No. of Seeds
Creeping Bentgrass	Agrostis stolonifera	63.0
Rough Bluegrass	Poa trivialis	17.0
Meadow Foxtail	Alopecurus aranditaceus	11.0
Annual Ryegrass	Lolium multiflorum	4.5
Beerlongue	Panicum clandestinum	4.5



SECTION THROUGH STORM WATER BASIN & BIORETENTION

NOT TO SCALE

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD MORRIS, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20' 0 20 40FT.

TOWN OF AMHERST APPROVAL BOX:

5.a

CARMINA WOOD

Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/24/2024

DRAWING NAME: Detention Plan

Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO.: 20.247

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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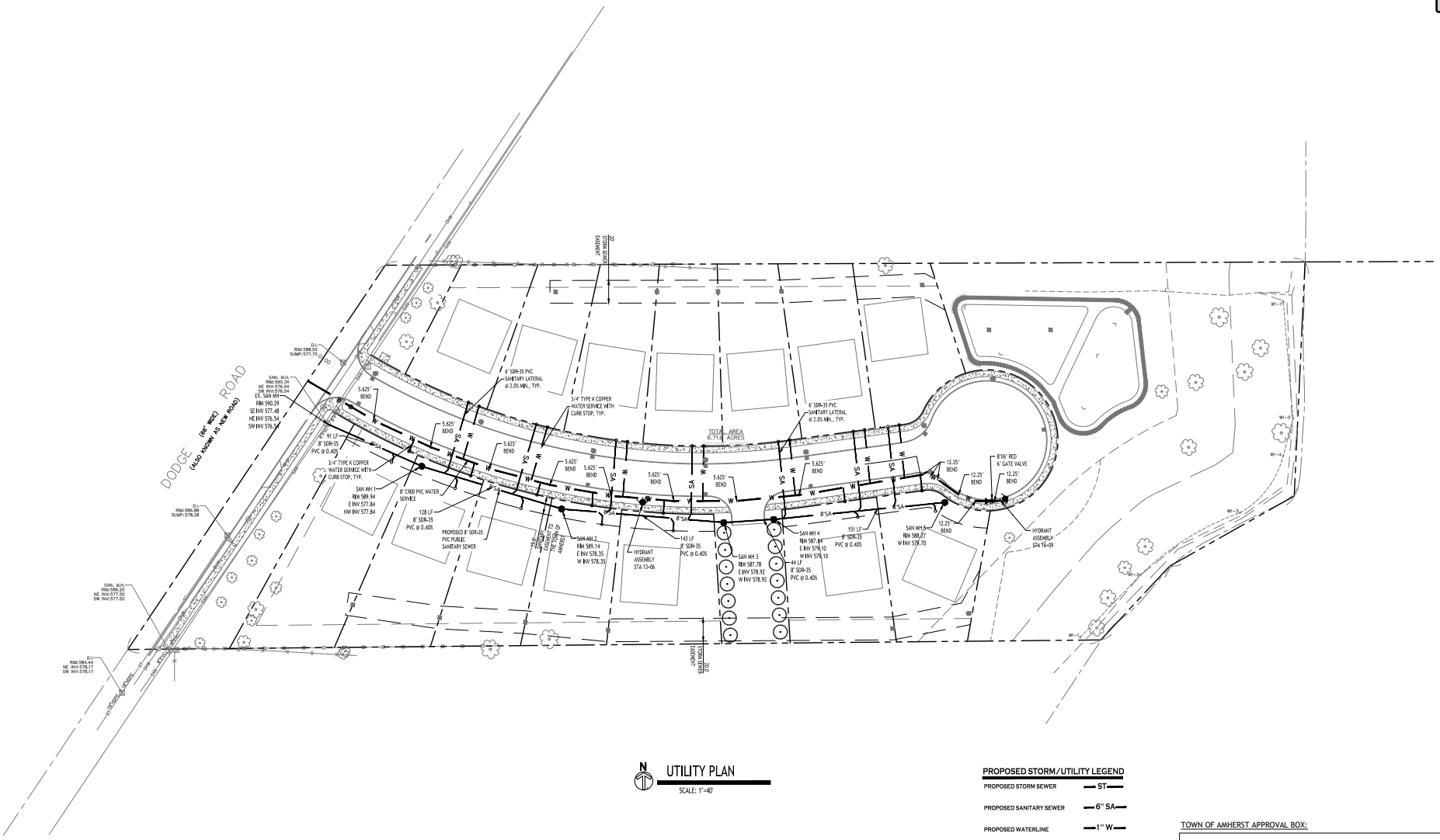

N

UTILITY PLAN

SCALE: 1"=40'

PROPOSED STORM/UTILITY LEGEND

PROPOSED STORM SEWER	ST
PROPOSED SANITARY SEWER	6" SA
PROPOSED WATERLINE	1" W
PROPOSED CATCH BASIN	CB
PROPOSED MANHOLE	MH
PROPOSED GATE VALVE	GV

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40' 40 0 40 80Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWO

Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/24/2024

DRAWING NAM

Utility Pl

Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

Project No. 20.247

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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PROFILE - ROAD A

SCALE: HORIZ. 1"=30'
VERT. 1"=5'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

HORIZ. 30' 30 0 30 60Ft.

VERT. 5' 5 0 5 10Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWO

Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/14/2024

DRAWING NAME:
Utility Ro
Profile

Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO.: 20.247

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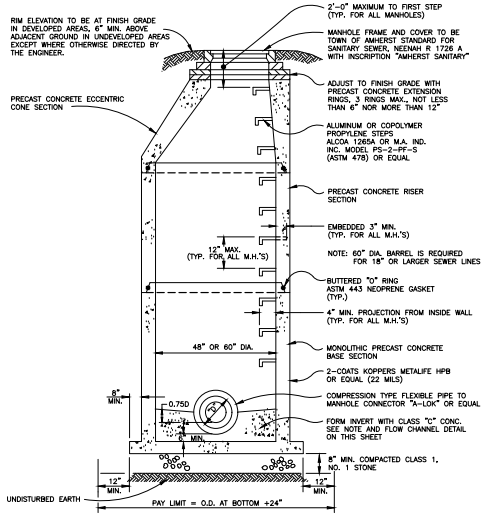
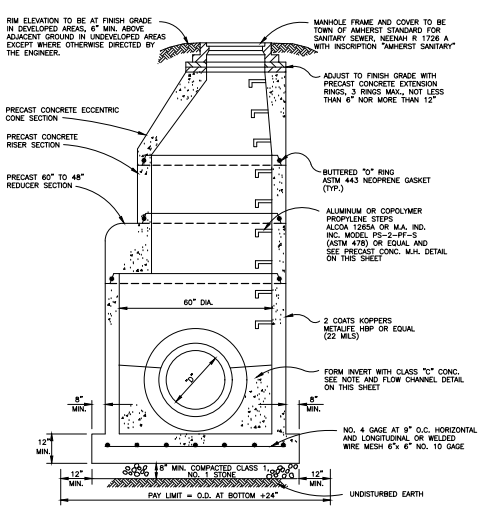


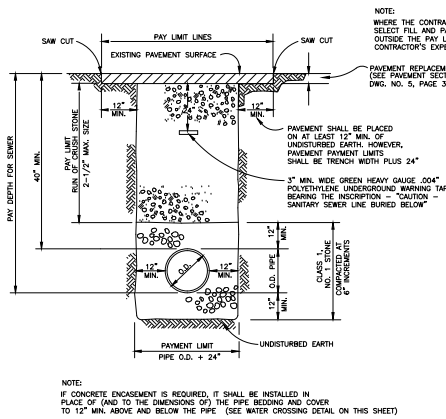
PRECAST CONCRETE MANHOLE

NOT TO SCALE



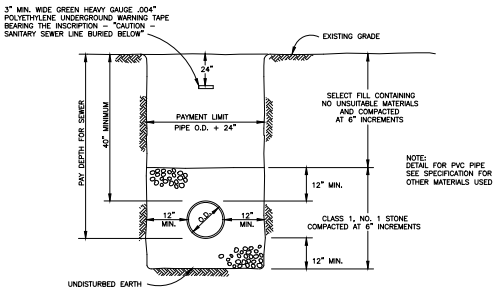
PRECAST CONCRETE MANHOLE
OVER EXISTING SEWER (18"–30" DIA.)

NOT TO SCALE



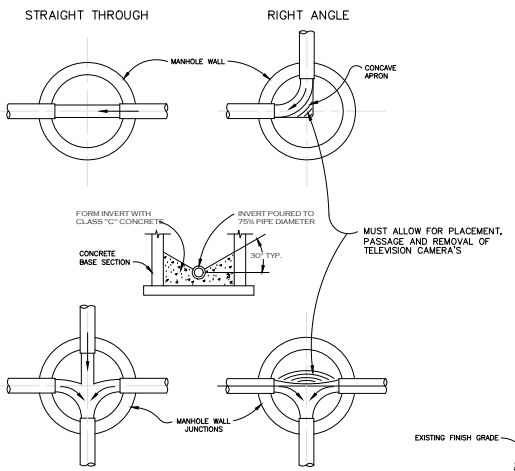
TYPICAL TRENCH DETAIL – TOWN ROAD CROSSING
FOR MAIN SEWERS
& HOUSE AND BUILDING CONNECTIONS

NOT TO SCALE



TYPICAL EARTH TRENCH DETAIL
UNPAVED AND UNTRAVELED AREAS

NOT TO SCALE



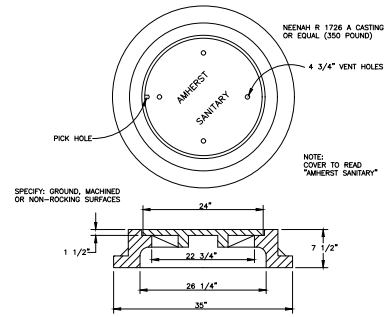
NOTE:
FLOW CHANNELS MUST ALLOW PLACEMENT, REMOVAL AND PASSAGE OF T.V. CAMERAS. THE CAMERA DIMENSIONS ARE APPROXIMATELY 26" LONG x 6 1/2" SQUARE. A BLOCK OF WOOD OF THESE DIMENSIONS MAY BE USED TO SIMULATE THE SIZE OF THE CAMERA. THIS WILL SIMPLIFY THE FORMATION OF FLOW CHANNELS AND INVERTS.

DEPTH OF ALL CHANNELS TO BE 75% OF PIPE DIAMETER.

FINISH ALL CHANNELS AT PROPER GRADE AS TO ALLOW SMOOTH & UN-OBSTRUCTED FLOW ALL INVERTS TO BE FLUSH WITH THE INSIDES.

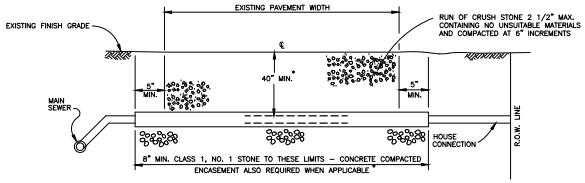
FLOW CHANNEL DETAIL
SANITARY SEWERS

NOT TO SCALE



STANDARD MANHOLE FRAME AND COVER
VENTED COVER

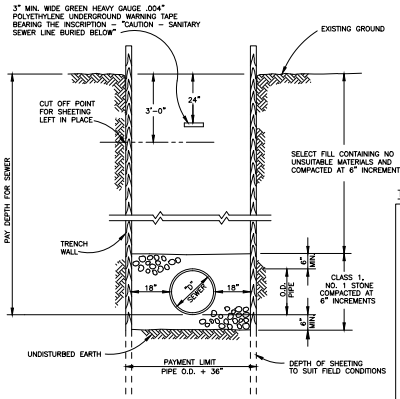
NOT TO SCALE



*WHEN DEPTH FROM TOP OF HOUSE CONNECTION PIPE TO SURFACE IS LESS THAN 6.0 FEET, A CONCRETE ENCASEMENT WILL BE REQUIRED TO THE LIMITS SHOWN (SEE WATER CROSSING DETAIL SAN. SEWERS DWG. #4 – PG. #2 OF 4)

SANITARY
TYPICAL PAVEMENT CROSSING
FOR HOUSE CONNECTION

NOT TO SCALE



SHEETED TRENCH DETAIL

NOT TO SCALE

TOWN OF AMHERST APPROVAL BOX:

5.a

CARMINAWO

Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/24/2024

DRAWING NAME
Sanitary Details

Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

Packet Pg. 1232

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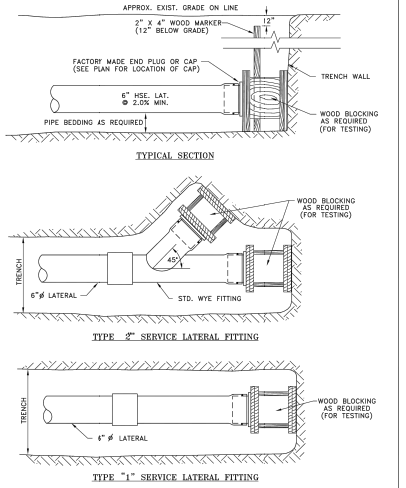
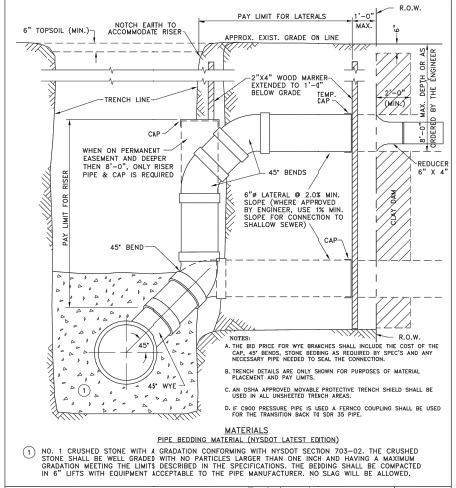
CAP & BLOCKING METHODS FOR AIR TESTING
(NOVEMBER 2023)



ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1		STD.DETAIL
Rev. 2		26
File: D-26	Date: 3/1/91	

RISER DETAIL – SDR35
(MAIN LINE LATERAL CONNECTION)
(NOVEMBER 2023)

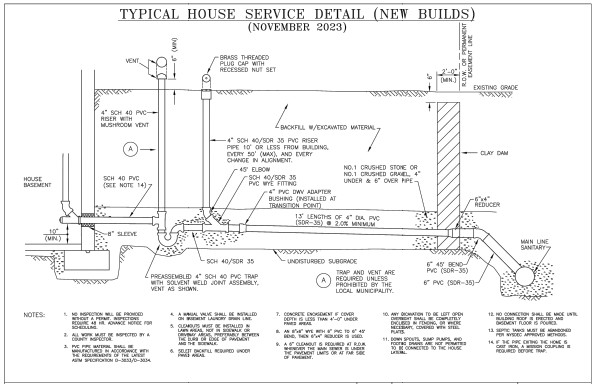


MATERIALS
PIPE BEDDING MATERIAL (NYSDOT LATEST EDITION)
① NO. 1 CRUSHED STONE WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER. NO SLAG WILL BE ALLOWED.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 2 1/97	ADDED 1/8 BELL & SPIGOT LONG SWEEP BEND	STD.DETAIL
Rev. 3 12/01	CHANGED NOTE 1 REGARDING LOCATION OF VENTS AND CLEAN OUTS	27
Rev. 4 5/02	CHANGED LONG SWEEP TO NORMAL AS ADDED CAPS & CORRECTED PAY LIMITS	
File: D-27	Date: 3/1/91	

TYPICAL HOUSE SERVICE DETAIL (NEW BUILDS)
(NOVEMBER 2023)

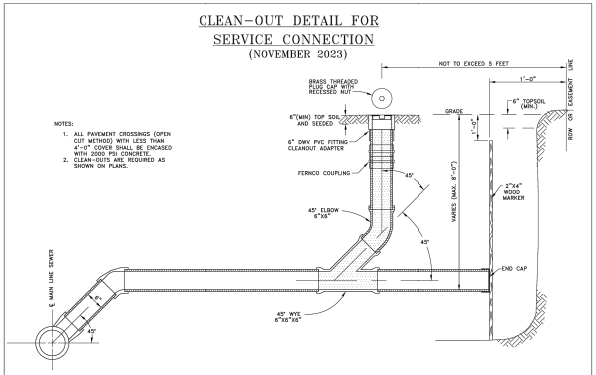


NOTES:
1. NO INSPECTION WILL BE PROVIDED WITHOUT A PRIOR, INSPECTORS SCHEDULE OR 24h ADVANCE NOTICE FOR WEEKENDS.
2. ALL WORK MUST BE INSPECTED BY A COUNTY INSPECTOR.
3. PVC PIPE MATERIAL SHALL BE MARKED WITH THE MANUFACTURER'S NAME WITH THE ABBREVIATION OF THE LATEST ASTM SPECIFICATION D-3034/D-3034.
4. A MANUAL VALVE SHALL BE INSTALLED ON BASEMENT LAUNDRY SPANN LINE.
5. CLEANOUTS MUST BE INSTALLED IN LAWN AREAS, NOT IN DRIVEWAY OR SIDEWALK AREAS UNLESS APPROVED BY THE ENGINEER OR DULY OF PAVEMENT AND THE SIDEWALK.
6. SOLID BACKFILL REQUIRED UNDER PAVED AREAS.
7. CONCRETE ENCASEMENT 6" COVER DEPTH IS LESS THAN 4'-0" UNDER PAVED AREAS.
8. AN 8"x4" WYE WITH 8" PVC TO 4" 45° BEND, THEN 4"x4" REDUCER IS USED.
9. A 6" CLEANOUT IS REQUIRED AT R.O.W. OR PERMANENT EASEMENT LINE AND THE PAVEMENT LIMITS OF AT THE SIDE OF PAVEMENT.
10. ANY DEVIATION TO BE LEFT OPEN OVERNIGHT SHALL BE COMPLETELY PLUGGED WITH A TIGHT FITTING DEVICE & STRONG ENOUGH TO WITHSTAND WATER PRESSURE.
11. SUMP PUMPS, SUMP PUMPS, AND FOOTING DRAINS ARE NOT PERMITTED TO BE CONNECTED TO THE HOUSE LATERAL.
12. NO CONNECTION SHALL BE MADE UNTIL BUILDING ROOF IS ERECTED AND SHINGLED FLOOR IS POURED.
13. SEPTIC TANKS MUST BE ABANDONED AS PER COUNTY REGULATIONS.
14. 4" SCH 40 PVC FITTINGS TO BEND IN THE VENT PIPE. A SWEEP COUPLING IS REQUIRED BEFORE TRAP.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 11/08	ADDED PVC TRAP AND SLEEVE	STD. DETAIL
Rev. 01/12	REVISED 4" CAST IRON TRAP	21
Rev. 10/21	REMOVED VENT, RISER, AND TRAP ASSEMBLY	
Rev. 11/23	ADDED VENT, RISER, TRAP ASSEMBLY & ⑭	
Rev. 3/24	CHANGED VENT, RISER, TRAP TO SCH 40	
File: d-21	Date: 3/1/91	

CLEAN-OUT DETAIL FOR SERVICE CONNECTION
(NOVEMBER 2023)



NOTES:
1. ALL PAVEMENT CROSSINGS (OPEN CUT METHOD) WITH LESS THAN 4'-0" COVER SHALL BE ENCASED WITH 2000 PSI CONCRETE.
2. CLEAN-OUTS ARE REQUIRED AS SHOWN ON PLANS.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 11/94	CHANGED DIM LINE FOR MAX. DEPTH	STD. DETAIL
Rev. 2 1/97	ADDED NOTE 2	28
Rev. 3 5/02	CHANGED C.I. CAP TO BRASS	
Rev. 4 6/05	1" MIN. FROM EDGE OF WALK NOTE	
Rev. 5 1/12	CHANGED C.I. TO BRASS NOTES 1 & 3	
Rev. 6 3/24	REVISED NOTES & REMOVED CAST IRON	
File: D-28	Date: 3/1/91	

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Single Family Subdivision

REVISIONS:
No. Description Date
Rev. Per Town Comments 9/19/2024
Rev. Per Town Comments 10/24/2024

DRAWING NAME
Sanitary Details

Date: /29/25
Drawn By: C. Wood
Scale: As Noted
DRAWING NO.

PROJECT NO: 20.147

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

SANITARY SEWER TESTING METHOD NOTES

(A) LEAKAGE TESTS

01. THE TEST PERIOD WHEREIN THE MEASUREMENTS ARE TAKEN SHALL NOT BE LESS THAN 24 HOURS, REGARDLESS OF THE TEST METHOD USED.

02. THE TOTAL LEAKAGE OF ANY SECTION TESTED BY ANY TEST METHOD SHALL NOT EXCEED THE RATE OF 200 GALLONS PER MILE OF PIPE PER 24 HOURS PER INCH OF NOMINAL PIPE DIAMETER.

03. MANHOLES SHALL BE CONSIDERED AS SECTIONS OF 48" DIAMETER PIPE AND THE EQUIVALENT LEAKAGE ALLOWANCE SHALL BE COMPUTED PER NOTE 02 USING THE SUBMERGED HEIGHT OF MANHOLE AS THE LENGTH.

04. WHEN MANHOLES ARE TESTED SEPARATELY, ALL PIPE OPENINGS SHALL BE PLUGGED AND THE TEST PROCEDURES AND CRITERIA SHALL BE APPLIED IN THE SAME MANNER AS FOR TESTS INVOLVING ONLY THE PIPE OR A COMBINATION OF PIPE AND MANHOLES.

(B) INFILTRATION TEST CRITERIA FOR USE

01. THIS TEST METHOD MAY ONLY BE USED WHEN GROUND WATER LEVELS ARE AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE FOR THE ENTIRE LENGTH OF THE SECTION TO BE TESTED DURING THE ENTIRE PERIOD OF THE TESTS.

02. GROUND WATER LEVELS MAY BE MEASURED IN AN OPEN TRENCH OR IN STANDPIPES PREVIOUSLY PLACED IN BACKFILLED TRENCHES DURING BACKFILLING.

03. THE NUMBER OF STANDPIPES REQUIRED AND LOCATION OF THE SAME ARE TO BE AS ORDERED BY THE ENGINEER. STANDPIPES MAY BE OF ANY PIPE MATERIAL BUT MUST BE OF SUCH DIAMETER (2–1/2" MINIMUM) AS TO PERMIT THE INSERTION OF A RULE OR LEVEL ROD. CRUSHED STONE SHALL BE PLACED AROUND THE LOWER OPEN ENDS OF THE STANDPIPES.

04. STANDPIPES ARE TO BE REMOVED AT THE SATISFACTORY COMPLETION OF THE TESTS.

05. IF IN LIEU OF STANDPIPES, THE TRENCH IS TO BE LEFT OPEN FOR GROUND WATER OBSERVATION, THE LENGTH OF UNBACKFILLED TRENCH AT ANY ONE TIME MAY HAVE TO BE LIMITED FOR REASONS OF SAFETY.

(C) EXFILTRATION TEST CRITERIA FOR USE

01. THIS TEST CONSISTS OF FILLING THE PIPE WITH WATER TO PROVIDE A HEAD OF AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE OR ABOVE GROUND WATER WHICHEVER IS HIGHER AT THE HIGHEST POINT OF THE PIPE LINE UNDER TEST, AND THEN MEASURING THE LOSS OF WATER TO MAINTAIN THE ORIGINAL LEVEL.

02. IN THIS TEST THE PIPE LINE MUST BE FILLED WITH WATER AND ALLOWED TO REMAIN SO FILLED FOR AT LEAST 24 HOURS PRIOR TO TAKING MEASUREMENTS.

03. REGARDING GROUND WATER MEASUREMENTS: SEE NOTES 02 THROUGH 05 ABOVE.

04. REGARDING THE TEST STANDPIPE: THERE MUST BE SOME POSITIVE METHOD OF RELEASING ENTRAPPED AIR IN THE SEWER PRIOR TO TAKING MEASUREMENTS.

(D) DEFLECTION TEST FOR PVC SEWER PIPE

01. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE GRAVITY SEWER PIPE. TESTS SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE FOR AT LEAST 30 DAYS.

02. NO PIPE SHALL EXCEED DEFLECTION OF 5%. DEFLECTION GAGE MAY BE BORROWED FROM THE TOWN ENGINEER FOR 8" AND 10" PIPE. THE DEFLECTION TEST MUST BE EXECUTED AFTER 30 DAYS OF PLACEMENT OF FINAL BACKFILL. THE TEST WILL ALSO BE DONE WITHOUT MECHANICAL PULLING DEVICES.

MANHOLE PLACEMENT AND MAINTENANCE
DURING CONSTRUCTION AND DEVELOPMENT

CONTRACTOR AND/OR DEVELOPERS SHALL CONSTRUCT ALL MANHOLE STRUCTURES IN ACCORDANCE WITH THE TOWN OF AMHERST STANDARD SPECIFICATIONS OR THE SPECIFICATIONS OF THE DESIGN ENGINEER WHEN REQUIRED BY THE TOWN.

ALL MANHOLES ARE TO BE DESIGNED AND FURNISHED WITH RIM ELEVATIONS AT FINAL FINISHED GRADES. THE CONTRACTOR, DEVELOPER, OR HOME BUILDER SHALL BE RESPONSIBLE FOR ALL CORRECTIONS, ADJUSTMENTS, AND MODIFICATIONS NEEDED FOR RAISING, LOWERING, OR REPLACING ANY AND ALL MANHOLES AS PROPOSED FOR THE FACILITY.

ALL AS–BUILT STATIONING, LINE AND GRADE IMPROVEMENTS, INVERT AND RIM ELEVATIONS, "Y" LOCATIONS, INSPECTION REPORTS, ROADWAY OR STREET NAMES, RIGHT–OF–WAY WIDTHS, AND EASEMENT LINES SHALL BE FURNISHED TO THE TOWN ON A SET OF MYLAR DRAWINGS PRIOR TO TAP–IN APPROVAL, PIP ACCEPTANCE, AND/OR RELEASE OF FINAL PAYMENT.

ALL MANHOLE STRUCTURES SHALL BE MADE ACCESSIBLE TO THE TOWN OF AMHERST TELEVISION/MAINTENANCE CREWS. THE CONTRACTOR AND/OR DEVELOPER SHALL PROVIDE A DRY, WELL COMPACTED, STABLE SURFACE FREE FROM SHOW AND OBSTRUCTIONS FOR SAFE AND OPEN ACCESS WITH TOWN VEHICLES. SHOULD THE CONTRACTOR AND/OR DEVELOPER WISH TV INSPECTIONS DURING WET WEATHER/WET SOFT SOIL CONDITIONS, HE SHALL PROVIDE ALL NECESSARY GRANULAR BACKFILL, DISTRIBUTED AND COMPACTED TO SUPPLY ACCESS TO EACH MANHOLE. THE CONTRACTOR AND/OR DEVELOPER SHALL BEAR ALL COSTS OF TOWING, DOWN TIME, CREW TIME, AND DAMAGE ALONG WITH RESTORATION, SHOULD SUCH ACCESSWAYS FAIL.

SANITARY SEWER NOTES:

01. THE CONTRACTOR SHALL COMPLY WITH THE TOWN OF AMHERST STANDARD DRAWINGS AND SPECIFICATIONS.

02. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER AND THE TOWN OF AMHERST ENG. DEPT. OF ANY HAZARDOUS SUBSTANCE ENCOUN–TERED DURING THE CONSTRUCTION OF THE WORK. HE SHALL AT HIS EXPENSE, CONFORM TO ALL LAWS, RULES, REGULATIONS AND DIRECTIONS AS PROMULGATED BY THE UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, THE NEW YORK STATE DEPARTMENT OF HEALTH AND ANY SUCH LOCAL RULES, ORDINANCES AND LAWS WHEN ENCOUNTERING OR WORKING WITH ANY SUCH HAZARDOUS SUBSTANCE.

03. THE CONTRACTOR SHALL COMPLY IN ALL RESPECTS TO THE INDUSTRIAL CODE PART (RULE NO.) 53 RELATING TO CONSTRUCTION, EXCAVATION AND DEMOLITION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES, AS ISSUED BY THE STATE OF NEW YORK DEPARTMENT OF LABOR, BOARD OF STANDARD AND APPEALS.

04. SINCE THE ERIE COUNTY WATER AUTHORITY OPERATES AND MAINTAINS THE EXISTING WATER LINES, THEY ARE TO BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION. ALL EXISTING VALVES ARE TO BE OPERATED BY THE ERIE COUNTY WATER AUTHORITY PERSONNEL.

05. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AHEAD OF THE PIPE LAYING OPERATION, SO THAT, IF MINOR ADJUSTMENTS MUST BE MADE IN ELEVATION AND/OR ALIGNMENT DUE TO INTERFERENCE FROM THESE UTILITIES, SAID CHANGES CAN BE MADE IN ADVANCE OF THE WORK.

06. WHERE SUCH FACILITIES ARE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER, HE SHALL CERTIFY TO THE ENGINEERING DEPARTMENT OF THE TOWN OF AMHERST THAT SAID FACILITIES AS CONSTRUCTED WERE SUPERVISED BY HIMSELF (HERSELF) AND THAT THE WORKS HAVE BEEN FULLY COMPLETED IN ACCORDANCE WITH THE APPROVED ENGINEERING REPORTS, PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS AND ANY AND ALL ADDENDA TO SAME.

07. THE CONSTRUCTION OF THE FACILITIES SHALL BE UNDER THE SUPERVISION OF A PERSON OR FIRM QUALIFIED TO PRACTICE PROFESSIONAL ENGINEERING IN NEW YORK STATE UNDER THE EDUCATION LAW OF THE STATE, WHENEVER ENGINEERING SERVICES ARE REQUIRED BY SUCH LAW FOR SUCH PURPOSES.

08. A WRITTEN CERTIFICATE OF CONSTRUCTION COMPLIANCE, INCLUDING THE RESULTS OF HYDROSTATIC LEAKAGE TESTS, MADE BY THE PROFESSIONAL ENGINEER SUPERVISING THE CONSTRUCTION, SHALL BE SUBMITTED TO THE ERIE COUNTY DEPART. OF ENVIRONMENT PLANNING AND NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION WITHIN THIRTY (30) DAYS AFTER CONSTRUCTION COMPLETION.

09. UNSUITABLE MATERIALS SUCH AS FROZEN ORGANIC AND/OR VEGETABLE MATERIAL, DEBRIS, TREES, LUMBER, LARGE STONES OR CLODS (6.0" OR LARGER), MUCK, PEAT, ORGANIC SILT WILL NOT BE ACCEPTABLE FILL AND CERTAIN MAN–MADE DEPOSITS OF INDUSTRIAL WASTE, SLUDGE OR LANDFILL MAY ALSO BE DETERMINED AS UNSUITABLE HAZARDOUS MATERIAL.

10. THE COMPACTION OF ALL MATERIALS WILL OCCUR AT 6" INCREMENTS.

11. VERIFICATION OF ALL EXISTING EASEMENTS IS THE RESPONSIBILITY OF THE DESIGN ENGINEER AND THEY MUST BE SHOWN ALONG WITH ALL PROPOSED EASEMENTS ON PLAN DRAWINGS.

12. SHOULD A FLUID CONDITION BE ENCOUNTERED AT THE TRENCH BOTTOM, THE CONTRACTOR IS TO INSTALL ADDITIONAL STONE CRADLE AS ORDERED BY THE ENGINEER.

13. ALL PIPE CROSSING UNDER PAVED AREAS ARE TO BE BACKFILLED TO SUBGRADE WITH COMPACTED SELECT MATERIAL TO FIVE (5) FEET OUTSIDE THE PAVEMENT EDGES.

14. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED TREE EXPERT TO REMOVE, WHERE NECESSARY, BRANCHES WHICH INTERFERE WITH THE CONSTRUCTION OPERATION, OR REPAIR TREES HAVING SUFFERED DAMAGE BY CONSTRUCTION ACTIVITIES. THE COST INVOLVED IN THE ABOVE IS TO BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

15. SEWERS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATERMAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE–BY–CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATERMAIN, PROVIDED THAT THE WATERMAIN IS IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATERMAIN IS AT LEAST 18" (46CM) ABOVE THE TOP OF THE SEWER.

16. SEWERS CROSSING WATERMAINS SHALL BE LAID TO PROVIDE MINIMUM VERTICAL DISTANCE OF 18" (46CM) BETWEEN THE OUTSIDE OF A WATERMAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATERMAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATERMAIN JOINTS. WHERE A WATERMAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER, TO PREVENT DAMAGE TO THE WATERMAIN.

17. WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE AND SHALL BE PRESSURE TESTED AS TO ASSURE WATERTIGHTNESS PRIOR TO BACKFILLING.

18. THE PIPE SHALL BE P.V.C. SEWER PIPE CONFORMING TO THE LATEST REVISIONS OF ASTM DESIGNATION D–3034, SDR–35, INSTALLED IN ACCORDANCE WITH ASTM.

19. THE MANHOLE COVERS ARE TO BEAR THE INSCRIPTION "AMHERST SANITARY".

TOWN OF AMHERST APPROVAL BOX:

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CARMINAWO
Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/24/2024

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

DRAWING NAME:
Sanitary Notes

Date: ../29/25
Drawn By: C. Wood
Scale: As Noted
DRAWING NO.
Project No. 20.247

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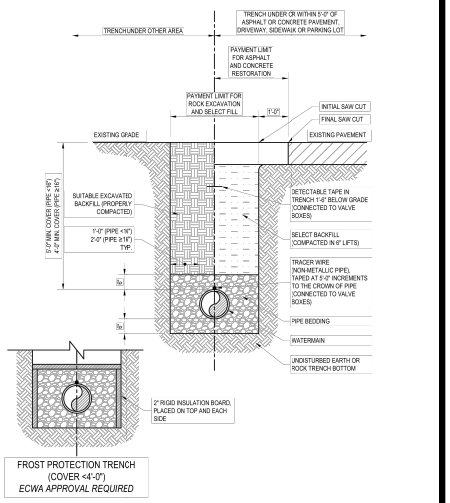
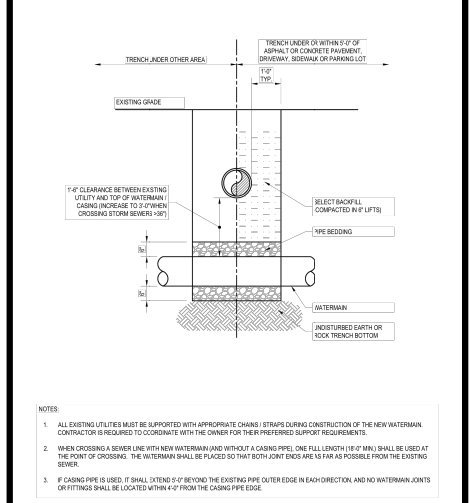


TYPICAL TRENCH DETAIL
SCALE: NTS

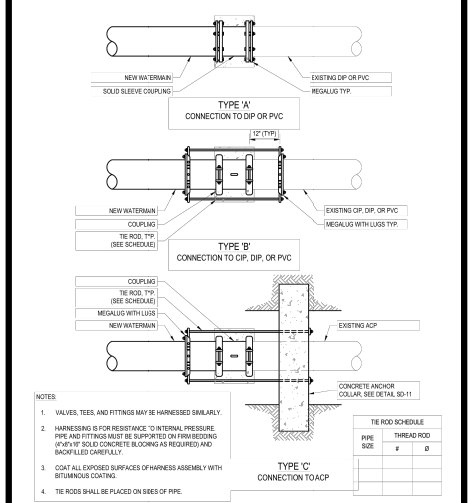
Revision: 2024-01
Detail: SD-01



NOTES:
1. ALL EXISTING UTILITIES MUST BE SUPPORTED WITH APPROPRIATE CHAINS / STRAPS DURING CONSTRUCTION OF THE NEW WATERMAIN. CONTRACTOR IS REQUIRED TO CCORDINATE WITH THE OWNER FOR THEIR PREFERRED SUPPORT REQUIREMENTS.
2. WHEN CROSSING A SEWER LINE WITH NEW WATERMAIN (AND WITHOUT A CASING PIPE), ONE FULL LENGTH (18'-0" MIN.) SHALL BE USED AT THE POINT OF CROSSING. THE WATERMAIN SHALL BE PLACED SO THAT BOTH JOINT ENDS ARE AS FAR AS POSSIBLE FROM THE EXISTING SEWER.
3. IF CASING PIPE IS USED, IT SHALL EXTEND 5'-0" BEYOND THE EXISTING PIPE OUTER EDGE IN EACH DIRECTION, AND NO WATERMAIN JOINTS OR FITTINGS SHALL BE LOCATED WITHIN 4'-0" FROM THE CASING PIPE EDGE

PIPE CROSSING DETAIL
SCALE: NTS

Revision: 2024-01
Detail: SD-02



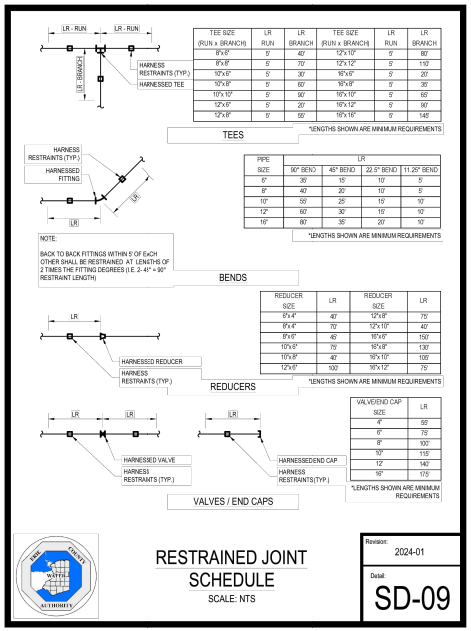
NOTES:
1. VALVES, TEES, AND FITTINGS MAY BE HARNESSED SIMILARLY.
2. HARNESSING IS FOR RESISTANCE TO INTERNAL PRESSURE. PIPE AND FITTINGS MUST BE SUPPORTED ON FIRM BEDDING (4'x8'x18" SOLID CONCRETE BLOCKING AS REQUIRED) AND BACKFILLED CAREFULLY.
3. COAT ALL EXPOSED SURFACES OF HARNESS ASSEMBLY WITH BITUMINOUS COATING.
4. TIE RODS SHALL BE PLACED ON SIDES OF PIPE.

TIE ROD SCHEDULE

PIPE SIZE	THREAD ROD	
	#	Ø

TYPICAL CONNECTION TO EXISTING WATERMAIN
SCALE: NTS

Revision: 2024-01
Detail: SD-08



TEE SIZE (RUN x BRANCH)	LR RUN	LR BRANCH	TEE SIZE (RUN x BRANCH)	LR RUN	LR BRANCH
8"x8"	5'	40'	12"x10"	5'	80'
8"x6"	5'	70'	12"x12"	5'	110'
10"x6"	5'	30'	16"x10"	5'	20'
10"x8"	5'	60'	16"x8"	5'	35'
10"x10"	5'	90'	16"x10"	5'	65'
12"x6"	5'	20'	16"x12"	5'	90'
12"x8"	5'	55'	16"x16"	5'	145'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

TEES

PIPE SIZE	LR 90° BEND	45° BEND	22.5° BEND	11.25° BEND
6"	30'	15'	10'	5'
8"	40'	20'	10'	5'
10"	50'	25'	15'	10'
12"	60'	30'	15'	10'
16"	80'	35'	20'	10'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

NOTE:
BACK TO BACK FITTINGS WITHIN 5' OF EACH OTHER SHALL BE RESTRAINED AT LENGTHS OF 2 TIMES THE FITTING DEGREES (I.E. 2x 45° = 90° RESTRAINT LENGTH)

BENDS

REDUCER SIZE	LR	REDUCER SIZE	LR
6"x 4"	40'	12"x8"	75'
8"x 4"	70'	12"x 10"	40'
8"x6"	40'	16"x6"	150'
10"x6"	75'	16"x8"	130'
10"x 8"	40'	16"x 10"	105'
12"x6"	100'	16"x 12"	75'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

REDUCERS

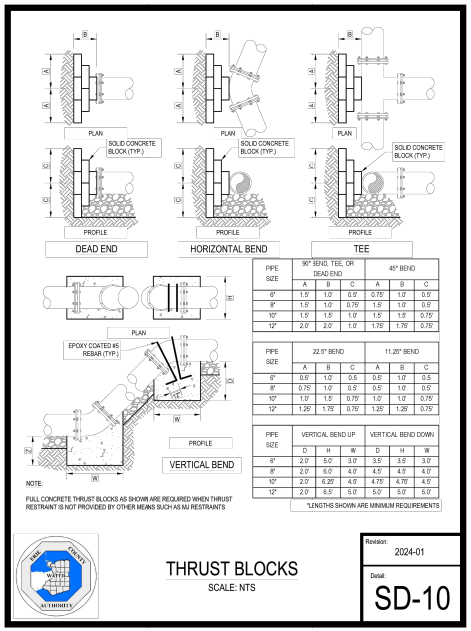
VALVE/END CAP SIZE	LR
4"	55'
6"	75'
8"	100'
10"	115'
12"	140'
16"	175'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

VALVES / END CAPS

RESTRAINED JOINT SCHEDULE
SCALE: NTS

Revision: 2024-01
Detail: SD-09



PIPE SIZE	90° BEND, TEE, OR DEAD END A	B	C	45° BEND A	B	C
6"	1.5'	1.0'	0.9'	0.75'	1.0'	0.5'
8"	1.5'	1.0'	0.75'	1.5'	1.0'	0.5'
10"	1.5'	1.5'	1.0'	1.5'	1.5'	0.75'
12"	2.0'	2.0'	1.0'	1.75'	1.75'	0.75'

PIPE SIZE	22.5° BEND A	B	C	11.25° BEND A	B	C
6"	0.5'	1.0'	0.5	0.5'	1.0'	0.5
8"	0.75'	1.0'	0.5'	0.5'	1.0'	0.5'
10"	1.0'	1.5'	0.75'	1.0'	1.0'	0.75'
12"	1.25'	1.75'	0.75'	1.25'	1.25'	0.75'

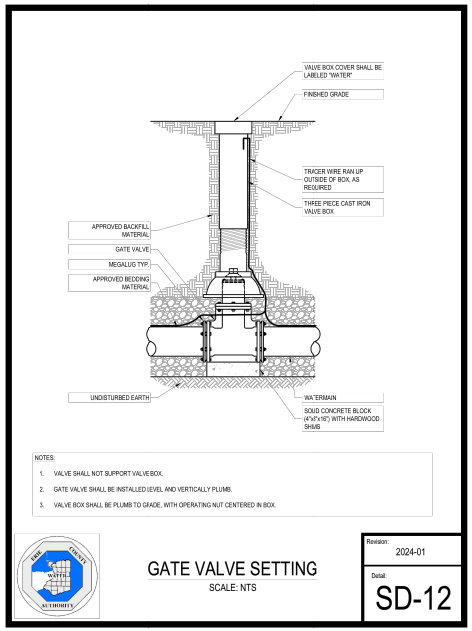
PIPE SIZE	VERTICAL BEND UP D	H	W	VERTICAL BEND DOWN D	H	W
6"	2.0'	5.0'	3.0'	3.5'	3.5'	3.0'
8"	2.0'	6.0'	4.0'	4.5'	4.5'	4.0'
10"	2.0'	6.25'	4.5'	4.75'	4.75'	4.5'
12"	2.0'	6.5'	5.0'	5.0'	5.0'	5.0'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

NOTE:
FULL CONCRETE THRUST BLOCKS AS SHOWN ARE REQUIRED WHEN THRUST RESTRAINT IS NOT PROVIDED BY OTHER MEANS SUCH AS MJ RESTRAINTS

THRUST BLOCKS
SCALE: NTS

Revision: 2024-01
Detail: SD-10



NOTES:
1. VALVE SHALL NOT SUPPORT VALVE BOX.
2. GATE VALVE SHALL BE INSTALLED LEVEL AND VERTICALLY PLUMB.
3. VALVE BOX SHALL BE PLUMB TO GRADE, WITH OPERATING NUT CENTERED IN BOX.

GATE VALVE SETTING
SCALE: NTS

Revision: 2024-01
Detail: SD-12

TOWN OF AMHERST APPROVAL BOX:

CARMINAWO

Single Family Subdivision

REVISIONS:

No.	Description	Date
2	Rev. Per Town Comments	9/19/2024
1	Rev. Per Town Comments	10/24/2024

DRAWING NA
Water De

Date: /29/25
Drawn By: C. Wood
Scale: As Noted
DRAWING NO.

PROJECT NO.: 16.147

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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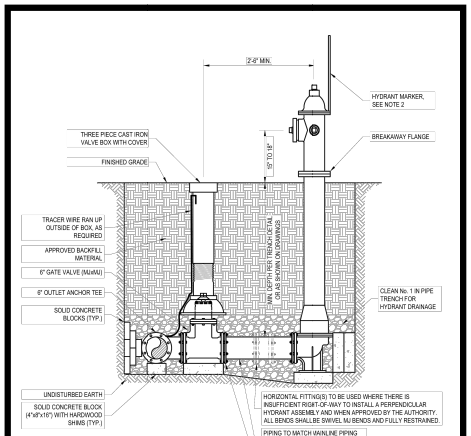


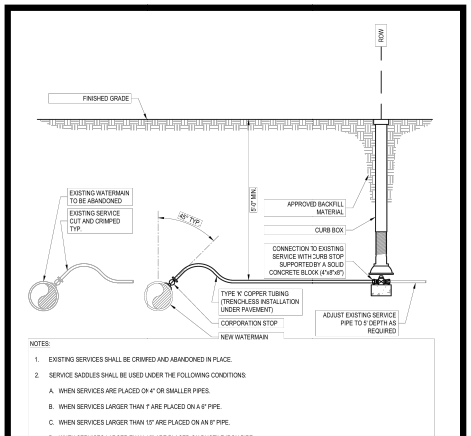
NOTES:

1. HYDRANT RISER SHALL BE INSTALLED PLUMB
2. FOR WATERMAIN REPLACEMENT PROJECTS, RELOCATE EXISTING MARKERS TO NEW HYDRANTS. MUNICIPALITY SHALL BE RESPONSIBLE TO PROVIDE ANY NEW HYDRANT MARKERS AS NEEDED. CONTRACTOR TO COORDINATE WITH ALL MUNICIPALITIES AND FIRE DISTRICTS.
3. HYDRANT FACE TO BE A MINIMUM OF 3'-0" FROM THE BACK FACE OF ALL CURBS OR A MINIMUM OF 5'-0" FROM ALL EDGE OF PAVEMENT.

ERIE COUNTY WATER AUTHORITY

HYDRANT ASSEMBLY INSTALLATION
SCALE: NTS

Revision: 2024-01
Detail: SD-16



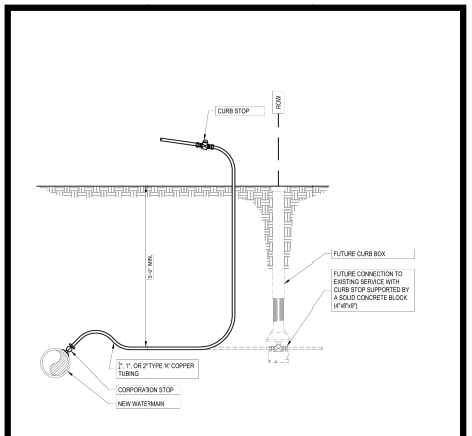
NOTES:

1. EXISTING SERVICES SHALL BE CRIMPED AND ABANDONED IN PLACE.
2. SERVICE SADDLES SHALL BE USED UNDER THE FOLLOWING CONDITIONS:
   A. WHEN SERVICES ARE PLACED ON 4" OR SMALLER PIPES.
   B. WHEN SERVICES LARGER THAN 1" ARE PLACED ON A 6" PIPE.
   C. WHEN SERVICES LARGER THAN 1.5" ARE PLACED ON AN 8" PIPE.
   D. WHEN SERVICES LARGER THAN 1.5" ARE PLACED ON DUCTILE IRON PIPE.
   E. WHEN TAPPING ALL NON-METALLIC PIPE (ACP, PVC, OR HDPE)
3. CURB BOXES SHALL NOT BE PLACED IN SIDEWALKS, DRIVEWAYS, OR CURB RAMPS.
4. USE POLYETHYLENE TUBING FOR ¾" AND 1" SERVICES GREATER THAN 100' IN LENGTH AND FOR 1.5" AND 2" SERVICES GREATER THAN 60' IN LENGTH. ALL POLYETHYLENE SERVICES SHALL INCLUDE A TRACER WIRE FOR DETECTION BY ECWA FORCES.
5. UNIONS ON COPPER TUBING ARE NOT ALLOWED UNLESS APPROVED BY ECWA PRIOR TO INSTALLATION.

ERIE COUNTY WATER AUTHORITY

SERVICE REPLACEMENT / INSTALLATION
SCALE: NTS

Revision: 2024-01
Detail: SD-20



NOTES:

1. AFTER COMPLETION OF TESTING, THE SAMPLE POINT SHALL BE UTILIZED FOR A SERVICE CONNECTION. IF UNABLE TO UTILIZE FOR A SERVICE REPLACE THE CORPORATION STOP IN PIPE WITH A THREADED BRASS PLUG.

ERIE COUNTY WATER AUTHORITY

TEMPORARY BLOW-OFF / SAMPLING POINT
SCALE: NTS

Revision: 2024-01
Detail: SD-30

TOWN OF AMHERST APPROVAL BOX:

CARMINAWO

Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/24/2024

DRAWING NA
Water De

Date: /29/25
Drawn By: C. Wood
Scale: As Noted
DRAWING NO.

PROJECT NO.: 20.147

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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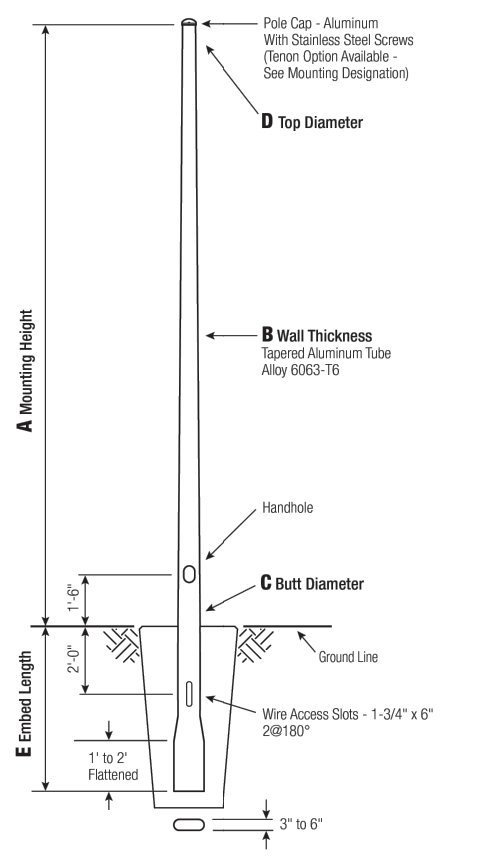
RTA Round Tapered Aluminum Pole
No Arm — Direct Buried



Satin Aluminum or Powder Coated Finish per Customer Specification.

C Butt Dia.	D Top Dia.	E Embed
5	3	3'
6	4.5	4'
7	4.5	5'
8	4.5	5'
9	4.5	6'
10	6	6'

C and D Dimensions in Inches

Pole
The pole shaft will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft assembly shall be full-length heat treated to produce a T6 temper.

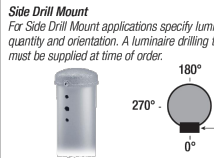
Handhole
***5" Butt Diameter -** 2-1/2" x 5" Handhole with curved Lap Style Aluminum Door and two (2) SS Self-Tapping Attaching Screws. A Grounding Provision is provided as part of the handhole.*
***6" Butt Diameter -** Reinforced, 3" x 5" curved Cast Aluminum Frame (Alloy 356-T6) with Aluminum Door and two (2) SS Hex Head Screws. A Grounding Provision incorporating a 3/8" diameter hole is provided opposite the Handhole.*
***7"+ Butt Diameters -** Reinforced, 4" x 6" curved Cast Aluminum Frame (Alloy 356-T6) with Aluminum Door and two (2) SS Hex Head Screws. Reinforced Frame will contain a tapped 3/8"-16NC Grounding Provision.*

Embed Detail
Direct Buried Pole bottom section on 6"+ butt diameter poles will be partially flattened into an anti-rotational, oval cross section. Wire access will be provided 24" below ground line. Soil conditions vary by site. Foundation requirements should be determined by a qualified Structural Engineer with knowledge of jobsite soil conditions.

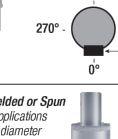


Vibration Damper
When determined necessary by Hapco, a Vibration Damper will be factory-installed inside the pole shaft. Customer specification of the damper is available.

Mounting Designation
Side Drill Mount
For Side Drill Mount applications specify luminaire type, quantity and orientation. A luminaire drilling template must be supplied at time of order.



Tenon Mount - Welded or Spun
For Tenon Mount applications specify both Tenon diameter (2.375", 2.875", 3.5", etc.) and length (3", 4", etc.). Tenon style is factory option. Welded Tenon can be specified.



WARNING: *Do not install light pole without luminaire.*

A Mtg. Hgt.	B Wall Thickness	C Butt Diameter	Total Lum. Weight	Maximum EPA 90	100	110	120	130	Old Cat. Number	Catalog Number
10	0.125"	5	100	16.6	13.0	12.2	10.0	8.2	87907-0310X	RTA10B5AE-**
12	0.125"	5	100	12.6	10.0	9.2	7.4	6.0	87907-0312X	RTA12B5AE-**
14	0.125"	5	90	10.0	7.6	7.0	5.6	4.4	87907-0314X	RTA14B5AE-**
16	0.125"	5	60	8.0	6.0	5.4	4.2	3.2	87907-0316X	RTA16B5AE-**
18	0.125"	5	35	6.4	4.6	4.2	3.0	2.2	87907-0318X	RTA18B5AE-**
18	0.156"	5	60	8.2	6.2	5.6	4.2	3.2		RTA18C5AE-**
20	0.125"	5	30	4.8	3.4	3.0	2.0	1.4		RTA20B5AE-**
20	0.125"	6	100	12.0	9.2	8.4	6.8	5.6	50-001	RTA20B6BE-**
20	0.156"	6	100	16.0	12.2	11.2	9.2	7.6	50-002	RTA20C6BE-**
20	0.188"	6	100	20.0	15.4	14.2	11.6	9.8	50-003	RTA20D6BE-**
20	0.156"	7	100	24.0	18.8	17.4	14.2	12.0	50-004	RTA20C7BE-**
20	0.188"	7	100	29.4	23.2	21.4	17.8	15.0	50-005	RTA20D7BE-**
20	0.156"	8	100	33.0	26.2	24.2	20.2	17.0	50-006	RTA20C8BE-**
20	0.188"	8	100	40.4	32.0	29.8	24.8	21.0	50-007	RTA20D8BE-**
22	0.125"	5	25	3.6	2.4	2.0	1.2	-		RTA22B5AE-**
25	0.156"	6	80	10.0	7.2	6.6	5.2	4.2	50-062	RTA25C6BE-**
25	0.188"	6	100	12.8	9.6	8.8	7.0	5.8	50-063	RTA25D6BE-**
25	0.156"	7	100	16.0	12.2	11.2	9.0	7.4	50-064	RTA25C7BE-**
25	0.188"	7	100	20.2	15.6	14.2	11.6	9.6	50-065	RTA25D7BE-**
25	0.156"	8	100	22.8	17.8	16.4	13.4	11.2	50-066	RTA25C8BE-**
25	0.188"	8	100	28.4	22.4	20.6	17.0	14.2	50-067	RTA25D8BE-**
25	0.219"	8	100	33.6	26.6	24.6	20.4	17.2	50-068	RTA25E8BE-**
25	0.250"	8	100	38.8	30.8	28.4	23.6	19.8	50-069	RTA25F8BE-**
30	0.156"	7	85	10.6	7.6	6.8	5.2	4.2	50-124	RTA30C7BE-**
30	0.188"	7	100	13.8	10.2	9.2	7.4	6.0	50-125	RTA30D7BE-**
30	0.156"	8	100	16.0	12.0	11.0	8.8	7.2	50-126	RTA30C8BE-**
30	0.188"	8	100	20.4	15.8	14.4	11.6	9.6	50-127	RTA30D8BE-**
30	0.219"	8	100	24.6	19.0	17.6	14.4	12.0	50-128	RTA30E8BE-**
30	0.250"	8	100	28.6	22.4	20.6	17.0	14.2	50-129	RTA30F8BE-**
30	0.188"	9	100	28.0	21.8	20.4	16.6	14.0	50-131	RTA30D9BE-**
30	0.250"	9	100	38.8	30.6	28.4	23.6	19.8	50-133	RTA30F9BE-**
30	0.188"	10	100	36.6	29.2	27.2	22.6	19.0	50-139	RTA30D1CE-**
35	0.156"	8	85	11.0	7.8	7.0	5.4	4.4	50-186	RTA35C8BE-**
35	0.188"	8	100	14.6	10.8	9.8	7.8	6.2	50-187	RTA35D8BE-**
35	0.219"	8	100	18.0	13.6	12.4	10.0	8.2	50-188	RTA35E8BE-**
35	0.250"	8	100	21.4	16.4	15.0	12.0	10.0	50-189	RTA35F8BE-**
35	0.188"	9	100	20.8	15.8	14.6	11.8	9.8	50-191	RTA35D9BE-**
35	0.250"	9	100	29.6	23.2	21.4	17.6	14.6	50-193	RTA35F9BE-**
35	0.188"	10	100	28.0	22.0	20.6	16.8	14.0	50-199	RTA35D1CE-**
35	0.219"	10	100	33.6	26.6	24.8	20.4	17.0	50-200	RTA35E1CE-**
35	0.250"	10	100	39.0	31.2	29.0	24.0	20.0	50-201	RTA35F1CE-**
35	0.312"	10	100	49.2	39.8	37.0	30.8	25.8	50-202	RTA35G1CE-**
40	0.188"	8	70	10.2	7.0	6.4	4.8	3.6	50-247	RTA40D8BE-**
40	0.219"	8	100	12.8	9.2	8.4	6.4	5.2	50-248	RTA40E8BE-**
40	0.250"	8	100	15.8	11.6	10.4	8.2	6.6	50-249	RTA40F8BE-**
40	0.188"	9	100	15.0	11.2	10.2	8.2	6.6	50-251	RTA40D9BE-**
40	0.250"	9	100	22.6	17.4	16.0	13.0	10.6	50-253	RTA40F9BE-**
40	0.188"	10	100	21.2	16.6	15.4	12.6	10.2	50-259	RTA40D1CE-**
40	0.219"	10	100	26.0	20.4	19.0	15.6	12.8	50-260	RTA40E1CE-**
40	0.250"	10	100	30.6	24.2	22.4	18.6	15.4	50-261	RTA40F1CE-**
40	0.312"	10	100	39.8	31.4	29.4	24.2	20.2	50-262	RTA40G1CE-**

Catalog Number System
The catalog number for Hapco poles utilizes the following identification system.

RTA [ ][ ] [ ] [ ] [ ] E - [ ][ ]
MOUNTING HEIGHT — BUTT DIA. — BASE STYLE
SHAFT ASSEMBLY — WALL THICK. — TOP DIA. — FINISH

Catalog Number Example -
RTA 30 D 8 B E – 01

Round Tapered Aluminum, 30' Mounting Height, .188" Wall Thickness, 8" Butt Diameter, 4.5" Top Diameter, Direct Buried, Satin Aluminum Finish.

Wall Thickness
B = .125"
C = .156"
D = .188"
E = .219"
F = .250"
G = .312"

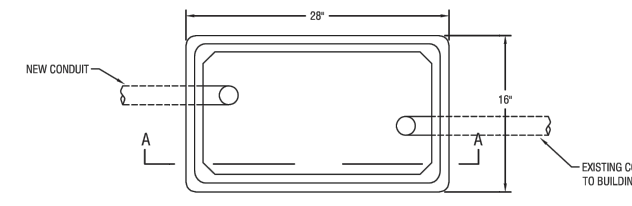
Butt Diameter
5 = 5"
6 = 6"
7 = 7"
8 = 8"
9 = 9"
1 = 10"

Top Diameter
A = 3"
B = 4.5"
C = 6"

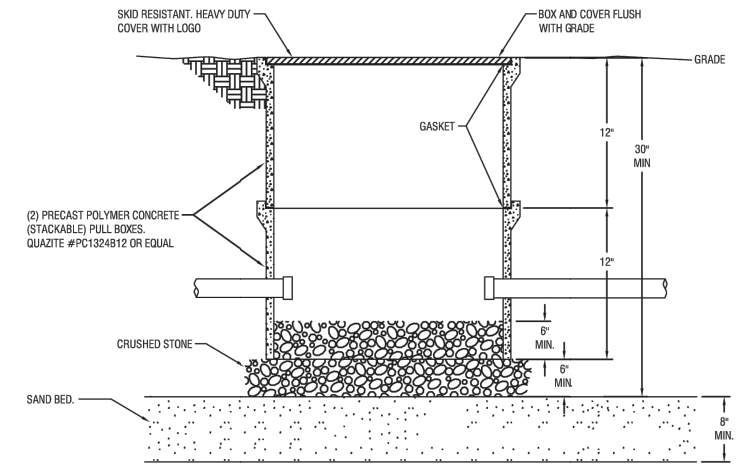
Base Style
E = Direct Buried

Finish
01 = Satin Aluminum
BA = Black Powder Coat
BH = White Powder Coat
BM = Dark Bronze Powder Coat
BV = Dark Green Powder Coat
GC = Gray Powder Coat
** = Specify Finish

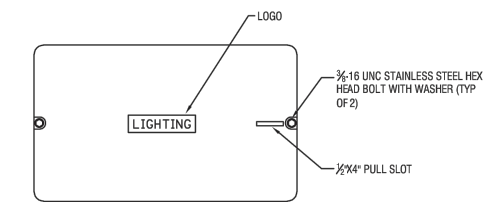
EPA Notes:
Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory..



PLAN VIEW



SECTION A-A



wendel
www.wendelcompanies.com

Town of Amherst LED Street Lighting Retrofit	Proj. No.	261343
	Date:	04-20.2021
Underground Pull Box Detail	Ref. Dwg.	
	No.	

Data sheet

Add smart, full-featured controls to your street lights.

Light Sense node for Intelligent Lighting

Light Sense node is designed to convert LED fixtures into intelligent focal centers, providing actionable insights that go far beyond illumination and mere granular lighting control. Our Smart Communities solutions and cloud-based IoT services are now at your fingertips.



Main features.
- Cellular connectivity enables gateway-free installation
- Advanced 4G LTE CAT-M IoT technology
- Auto-commissioning with integrated GPS
- Simple plug-and-twist mounting to luminaires via existing National Electrical Manufacturers Association (NEMA) 5- or 7-pin photo-control socket in accordance with American National Standards Institute (ANSI) C136.41
- Advanced lighting control with on-board photocell and (voltage) 0-10V dimming
- Utility-grade energy measurement with metering Class 0.5 accuracy
- Measures and reports electrical and sensor data to NetSense® Lighting Application

Advanced 4G LTE IoT CAT-M IoT connectivity
No additional networking equipment is needed to deploy with 4G LTE connectivity. Fast, reliable, and nationwide 4G LTE connectivity from Verizon Wireless allows for gateway-free deployment.

Lighting control
Light Sense node is connected to incoming AC mains and the LED driver/standard ballast. This direct connection provides on/off control and performance monitoring of the luminaire. Luminaire dimming control follows the 0-10VDC dimming standard.

Onboard sensors
Light Sense node sensors include: GPS, photocell, utility-grade power metering and temperature.

Security
Light Sense node connects to the network using highly secure, certificate-based authentication and encryption for each device.

Certifications
Underwriters Laboratories (UL), Federal Communications Commission (FCC)

verizon

Data sheet

Product specifi ations

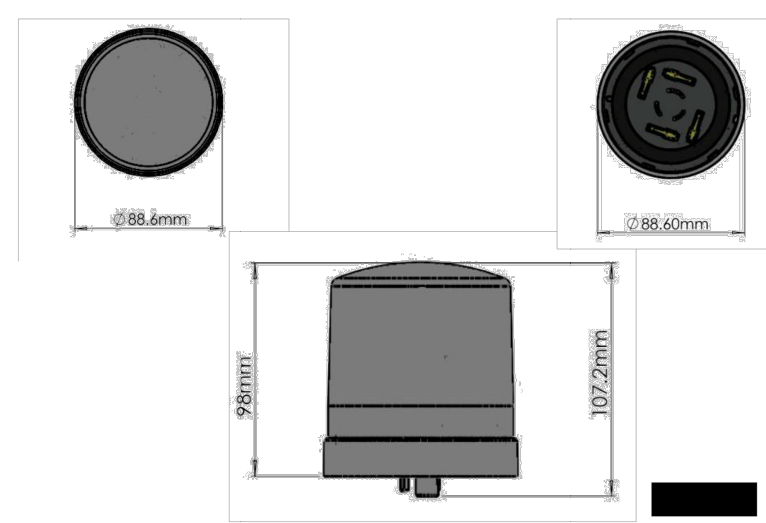
Ordercode	S80-000123
Communication	
Communication	Cellular (4G LTE) Lightweight machine-to-machine (LwM2M) protocol
LTE frequency bands	LTE band 4 and 13
Cellular data rate	LTE CAT-M
Security	
Encryption	DTLS1.2 PSK with 256-bit AES encryption
Power and electrical	
AC input voltage	120-277V/60Hz
Node power consumption	1.0W Typical (1.2W max)
Surge rating	6KV/3kA ANSI C136.2
Energy measurement	Metering accuracy ANSI C12.20 Class 0.5 (relevant sections), IR Pulse LED Support for energy measurement
On-board sensors	Photocell, GPS, power metering, temperature
GPS accuracy	3m (clear open sky)
LED Luminaire Control	
Ballast rating	E-fBallast and Standard/HID Ballast* rating of 5A max at 120V/277V 60Hz
Dimming control output	0-10 VDC
Photocell	
Operating levels	ANSI C136.10 Turn-on typical at 16 Lux, turn-off typical at 24 Lux, (On:Off ratio of 1:1.5)
Physical	
Mounting	Twist-lock National Electrical Manufacturers Association (NEMA) photo-receptacle (ANSI C136.41) 5-wire/7-wire receptacle
Weight	0.6 lbs
Color	Light gray
Dimensions	107.2mm height x 88.6mm diameter
Environmental and compliance	
Water ingress	IP66, UL773 wet rated
Vibration	3G vibration per ANSI C136.31 2010
Operating temperature	-40C to 55C
Relative humidity operating range	5% to 95% non-condensing
Certifications	UL, FCC
Region of certification and LTE operation	USA

For Standard/HID Luminaires support the luminaire must have main AC entry SPD rated at ANSI C136.2-2018 20kV/10kA

verizon

Data sheet

Mechanical dimensions



[redacted]

Ordering information

Ordercode	Description
S80-000123	Light Sense node, 4G LTE, 0-10V, NEMA, 120-277V

verizon

TOWN OF AMHERST APPROVAL BOX:

5.a

CARMINAWO…
…ensboro…

Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/24/2024

DRAWING NAME
Lighting

Date: …/29/25
Drawn By: C. Wood
Scale: As Noted
DRAWING NO.
Project No. 20.247

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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HADCO by Signify

Urban

TownView

TVPC/TVPR

Post top and arm mount luminaire



The Hadco **TownView LED post top luminaires** were designed to eliminate the compromises of performance, comfort, style options and value when choosing the right lighting solution for residential street and pedestrian area. The horizontal lens option reduces glare to enhance a sense of security with increased visual comfort. TownView offers design flexibility with a variety of style options, lumen packages, a range of control options and more at exceptional value.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide: Luminaire

example: TVPC-S3-S-32-G1-7-3S-730-A-N-R7-N-SP1-T-N-N-BKS

Series	Mounting	Roof option	LED module	Generation	Drive current	Distribution	Color temp.	Voltage	Integral Controls [3]
				G1					
TVPC TownView with visual comfort panels **TVPR** TownView with vertical ribbed panels	**A**[1] Arm Mt **L4** Large Post Top Fitter 4" (tool less entry) **L3** Large Post Top Fitter 3" (tool less entry) **S2** Small Post Fitter 2-3/8" **S3** Small Post Fitter 3" **S4** Small Post Fitter 4"	**S** Square Roof **C**[1] Curved Roof	**16** 16 LEDs	**G1** Gen 1	**5** 530 mA **7** 700 mA **9** 900 mA **1** 1050 mA	**2S** Type 2 Short **3S** Type 3 Short **3W** Type 3 Wide **5** Type 5 **2H** Type 2 House-side shield **3SH** Type 3 Short House-side shield **3WH** Type 3 Wide House-side shield	**730** 3000K (70 CRI) **740** 4000K (70 CRI) **827**[2] 2700K (80 CRI)	**A** 120-277 Volt **J** 480V **K** 347V	**DA**[5] 4 Hrs 25% Reduction **DB**[5] 4 Hrs 50% Reduction **DC**[5] 4 Hrs 75% Reduction **DD**[5] 6 Hrs 25% Reduction **DE**[5] 6 Hrs 50% Reduction **DF**[5] 6 Hrs 75% Reduction **DG**[5] 8 Hrs 25% Reduction **DH**[5] 8 Hrs 50% Reduction **DJ**[5] 8 Hrs 75% Reduction **DL**[4,5] DALI (default: logarithmic) **SRD**[4,5] SR Driver **CLO**[5] Constant light output **AST**[5] Adjustable startup time **OTL**[5] Over the life (default: L70 hrs) **S**[10] FAWS Field adjustable wattage selector **SRD** Sensor ready driver (standard configuration) **SRD1** Sensor ready driver (alternative configuration) **N** None
			32 32 LEDs	**G1** Gen 1	**5** 530 mA **7** 700 mA **8** 800 mA **1** 1050 mA				
			48 48 LEDs	**G1** Gen 1	**5** 530 mA **7** 700 mA				

Ordering guide (continued)

Receptacle	Sensor Receptacle [8]	Surge Protection	Term Block	Decorative Option	Bird Guard	Finish [9]
	N				N	
R7 7 Pin tooless rotatable standard - no photocell **PH8**[7] 7 Pin tooless rotatable standard - with photocell **PH9** 7 Pin tooless rotatable standard - with shorting cap **PHX**[5] 7 Pin tooless rotatable standard - with long life photocell	**N** None	**SP1** Parallel 10kV standard **SP2** Parallel 20kV	**T** Terminal Block **N** None	**L**[6] Ladder Rest **N** None	**N** None	**BKS** Black Smooth **WHS** White Smooth **BZS** Bronze Smooth **GNS** Green Smooth **BK** Black Texture **WH** White Texture **BZ** Bronze Texture **GN** Green Texture

Footnotes see page 2.

TVPC/TVPR TownView

Post top and arm mount luminaire

Ordering Guide: Arm mount

Must be ordered as a separate line item (if Arm Mount option is chosen for fixture).

Code	Mount	Width	Options	Finish
TV	A	55	S	
TV TownView	**A** Arm Mount	**55** 55.5" wide	**S** Decorative Scroll	**BKS** Black Smooth **WHS** White Smooth **BZS** Bronze Smooth **GNS** Green Smooth **BK** Black Texture **WH** White Texture **BZ** Bronze Texture **GN** Green Texture

Only available with Square roof

Footnotes

1. Only **S** Square roof available with **A** Arm Mount
2. Consult factory for information and lead time
3. Only pick one option from the Control list - for multiple control options consult the factory
4. This option requires more information contact factory
5. Only available with **120-277 V**
6. Ladder rest option not available with Arm Mount
7. Not available with **347V**
8. Order a **TVLN** (no panel version if you want the SR Receptacle option) Or consult factory to review sensor compatibility with panels.
9. When any finish other than **BKS** or **BK** is selected cupola will be metal and painted to match finish. Cupola supplied with **BKS** or **BK** finish option may be used with Interact City Astro-Clock node. If using Interact City with other finishes, cupola must be removed and Astro-Clock node is not required.
10. Position 10 is open for receptacle control, must use one or the other not BOTH.
11. **SR** Receptacle only available with 32 LED (receptacle is mounted in the middle of the boards) and **SRD** Driver is required if you choose this receptacle

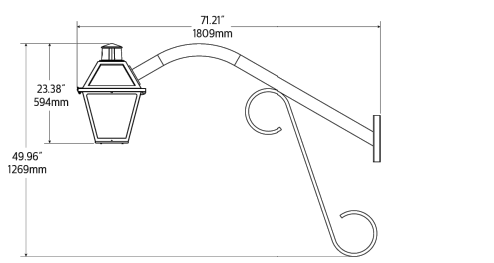
Dimensions: Arm mount

TVPx-A-S

Arm: Made of aluminum tubing

Decorative Element: Bent aluminum decorative channel scroll mechanically assembled.

Mounting Plate: Made of aluminum, mechanically fastened to the pole.



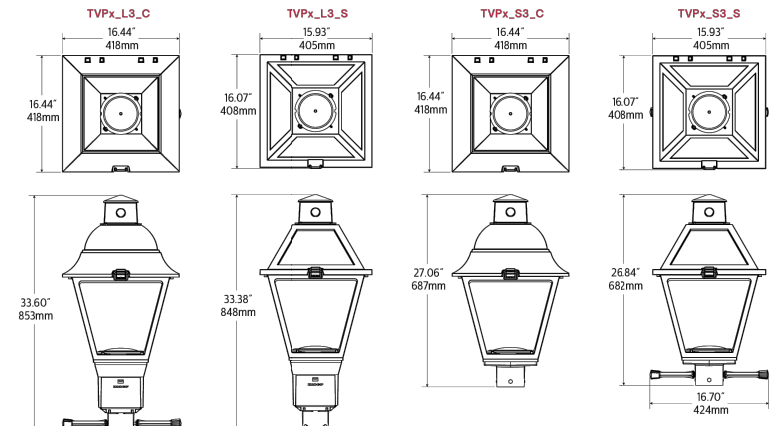
EPA Values

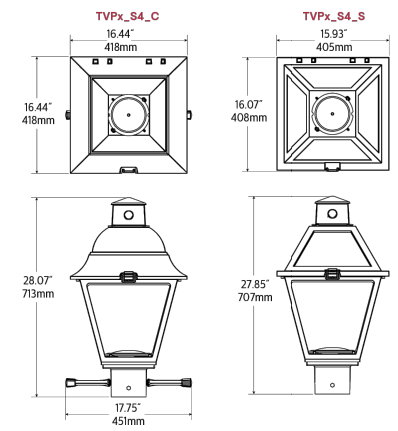
	Weight	EPA
TVPx-A-S	14 lbs	1.98 ft².

TVPC/TVPR TownView

Post top and arm mount luminaire

Dimensions: Luminaire





EPA Values

	Weight	EPA
TVPx-L3-C	24.75 lbs	1.75 sq. ft.
TVPx-L3-S		
TVPx-S2/S3-C	23.50 lbs	1.49 sq. ft.
TVPx-S2/S3-S		
TVPx-S4-C	24.38 lbs	1.54 sq. ft.
TVPx-S4-S		
TVPx-A-S	22.13 lbs	1.39 sq. ft.

TVPC/TVPR TownView

Post top and arm mount luminaire

Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours.

Ambient Temperature °C	Driver mA	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1050 mA	>100,000 hours	>54,000 hours	>96%

Field Adjustable Wattage (FAWS) Multiplier Chart

FAWS Position	Typical Delivered Lumens Multiplier	Typical System wattage
1	0.31	0.28
2	0.53	0.50
3	0.62	0.58
4	0.70	0.67
5	0.78	0.75
6	0.83	0.81
7	0.89	0.87
8	0.92	0.91
9	0.96	0.95
10	1.00	1.00

Note: Typical value accuracy +/- 15%

LED Lumen values - TVPC (Visual Comfort Panels)

Ordering Code	LED qty.	System Current (mA).	Color Temp.	Avg. System Wattage (W)	Type 2S			Type 3S			Type 3W			Type 5		
					Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
TVPC-16-G1-5-x-730	16	530	3000	29	2,621	91	B1-U2-G1	2,788	96	B1-U2-G1	2,779	96	B1-U2-G1	2,930	101	B1-U2-G1
TVPC-16-G1-7-x-730	16	700	3000	38	3,316	87	B1-U2-G1	3,527	93	B1-U3-G1	3,516	92	B1-U3-G1	3,707	97	B1-U3-G1
TVPC-16-G1-9-x-730	16	900	3000	49	4,069	83	B1-U3-G1	4,328	89	B1-U3-G1	4,314	88	B1-U3-G2	4,548	93	B1-U3-G1
TVPC-16-G1-1-x-730	16	1050	3000	57	4,586	81	B1-U2-G1	4,878	86	B1-U3-G1	4,862	85	B1-U3-G1	5,126	90	B1-U3-G1
TVPC-32-G1-5-x-730	32	530	3000	53	5,103	96	B1-U3-G1	5,342	100	B1-U3-G1	5,390	101	B2-U3-G2	5,617	105	B1-U3-G2
TVPC-32-G1-7-x-730	32	700	3000	70	6,443	92	B2-U3-G2	6,744	96	B2-U3-G2	6,805	97	B2-U3-G2	7,091	101	B1-U3-G2
TVPC-32-G1-8-x-730	32	800	3000	80	7,170	89	B1-U3-G1	7,505	93	B1-U3-G1	7,572	94	B1-U3-G2	7,892	98	B1-U3-G2
TVPC-32-G1-1-x-730	32	1050	3000	108	9,006	83	B2-U3-G2	9,427	87	B2-U3-G2	9,512	88	B2-U3-G2	9,913	91	B1-U3-G2
TVPC-48-G1-5-x-730	48	530	3000	81	7,780	96	B2-U3-G2	8,144	101	B1-U3-G2	8,217	102	B2-U3-G2	8,564	106	B1-U3-G2
TVPC-48-G1-7-x-730	48	700	3000	105	9,766	93	B2-U3-G2	10,223	98	B2-U3-G2	10,315	98	B2-U3-G2	10,750	103	B2-U3-G2
TVPC-16-G1-5-x-740	16	530	4000	29	2,882	99	B1-U2-G1	3,065	105	B1-U2-G1	3,055	105	B1-U2-G1	3,221	110	B1-U2-G1
TVPC-16-G1-7-x-740	16	700	4000	39	3,646	95	B1-U2-G1	3,878	101	B1-U3-G1	3,865	100	B1-U3-G1	4,075	106	B1-U3-G1
TVPC-16-G1-9-x-740	16	900	4000	49	4,473	90	B1-U3-G1	4,758	96	B1-U3-G1	4,743	96	B1-U3-G2	5,001	101	B1-U3-G1
TVPC-16-G1-1-x-740	16	1050	4000	58	5,042	88	B1-U2-G1	5,363	93	B1-U3-G1	5,345	93	B1-U3-G1	5,636	98	B1-U3-G1
TVPC-32-G1-5-x-740	32	530	4000	54	5,611	104	B1-U3-G1	5,873	109	B1-U3-G1	5,926	110	B2-U3-G2	6,176	114	B1-U3-G2
TVPC-32-G1-7-x-740	32	700	4000	71	7,083	100	B2-U3-G2	7,414	104	B2-U3-G2	7,481	105	B2-U3-G2	7,797	110	B1-U3-G2
TVPC-32-G1-8-x-740	32	800	4000	81	7,883	97	B1-U3-G1	8,251	102	B1-U3-G1	8,326	102	B1-U3-G2	8,677	107	B1-U3-G2
TVPC-32-G1-1-x-740	32	1050	4000	110	9,902	90	B2-U3-G2	10,365	95	B2-U3-G2	10,458	95	B2-U3-G2	10,899	99	B1-U3-G2
TVPC-48-G1-5-x-740	48	530	4000	82	8,554	105	B2-U3-G2	8,954	110	B1-U3-G2	9,034	111	B2-U3-G2	9,415	115	B1-U3-G2
TVPC-48-G1-7-x-740	48	700	4000	106	10,738	101	B2-U3-G2	11,240	106	B2-U3-G2	11,341	107	B2-U3-G2	11,819	112	B2-U3-G2

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at outdoorlighting.applications@philips.com. Consult DLC QPL to confirm your specific fixture selection is DLC approved.

Note: Some data may be scaled based on tests of similar but not identical luminaries.

TVPC/TVPR TownView

Post top and arm mount luminaire

LED Lumen values - TVPC (Visual Comfort Panels and House-side shield)

Ordering Code	LED qty.	System Current (mA).	Color Temp.	Avg. System Wattage (W)	Type 2SH			Type 3SH			Type 3WSH		
					Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
TVPC-16-G1-5-x-730	16	530	3000	29	2,094	72	B0-U2-G1	2,322	80	B0-U2-G1	2,155	75	B1-U2-G1
TVPC-16-G1-7-x-730	16	700	3000	38	2,649	70	B1-U2-G1	2,938	77	B1-U2-G1	2,726	72	B1-U3-G1
TVPC-16-G1-9-x-730	16	900	3000	49	3,251	66	B1-U2-G1	3,605	74	B1-U3-G1	3,345	68	B1-U3-G1
TVPC-16-G1-1-x-730	16	1050	3000	57	3,664	64	B1-U2-G1	4,062	71	B1-U2-G1	3,770	66	B1-U3-G1
TVPC-32-G1-5-x-730	32	530	3000	53	4,018	75	B1-U3-G1	4,362	82	B1-U3-G1	4,291	80	B1-U3-G1
TVPC-32-G1-7-x-730	32	700	3000	70	5,073	72	B1-U3-G1	5,507	78	B1-U3-G1	5,417	77	B1-U3-G2
TVPC-32-G1-8-x-730	32	800	3000	80	5,645	70	B1-U3-G1	6,128	76	B1-U3-G1	6,028	75	B1-U3-G1
TVPC-32-G1-1-x-730	32	1050	3000	108	7,091	65	B1-U3-G1	7,698	71	B1-U3-G2	7,572	70	B1-U3-G2
TVPC-48-G1-5-x-730	48	530	3000	81	6,126	76	B1-U3-G1	6,650	82	B1-U3-G1	6,541	81	B1-U3-G2
TVPC-48-G1-7-x-730	48	700	3000	105	7,690	73	B1-U3-G2	8,348	80	B1-U3-G2	8,211	78	B1-U3-G2
TVPC-16-G1-5-x-740	16	530	4000	29	2,302	79	B0-U2-G1	2,553	87	B0-U2-G1	2,369	81	B1-U2-G1
TVPC-16-G1-7-x-740	16	700	4000	39	2,913	76	B1-U2-G1	3,230	84	B1-U2-G1	2,997	78	B1-U3-G1
TVPC-16-G1-9-x-740	16	900	4000	49	3,574	72	B1-U2-G1	3,963	80	B1-U3-G1	3,678	74	B1-U3-G1
TVPC-16-G1-1-x-740	16	1050	4000	58	4,028	70	B1-U2-G1	4,466	78	B1-U2-G1	4,145	72	B1-U3-G1
TVPC-32-G1-5-x-740	32	530	4000	54	4,418	82	B1-U3-G1	4,796	89	B1-U3-G1	4,718	87	B1-U3-G1
TVPC-32-G1-7-x-740	32	700	4000	71	5,577	79	B1-U3-G1	6,055	85	B1-U3-G1	5,955	84	B1-U3-G2
TVPC-32-G1-8-x-740	32	800	4000	81	6,207	76	B1-U3-G1	6,738	83	B1-U3-G1	6,628	82	B1-U3-G1
TVPC-32-G1-1-x-740	32	1050	4000	110	7,796	71	B1-U3-G1	8,464	77	B1-U3-G2	8,325	76	B1-U3-G2
TVPC-48-G1-5-x-740	48	530	4000	82	6,735	82	B1-U3-G1	7,312	89	B1-U3-G1	7,192	88	B1-U3-G2
TVPC-48-G1-7-x-740	48	700	4000	106	8,454	80	B1-U3-G2	9,178	87	B1-U3-G2	9,028	85	B1-U3-G2

LED Lumen values - TVPR (Vertical Ribbed Panels)

Ordering Code	LED qty.	System Current (mA).	Color Temp.	Avg. System Wattage (W)	Type 2S			Type 3S			Type 3W			Type 5		
					Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
TVPR-16-G1-5-x-730	16	530	3000	29	2,750	95	B1-U2-G1	2,940	102	B1-U2-G1	2,920	101	B1-U3-G1	3,096	107	B2-U3-G1
TVPR-16-G1-7-x-730	16	700	3000	38	3,479	91	B1-U2-G1	3,719	98	B1-U2-G1	3,694	97	B1-U3-G1	3,917	103	B2-U3-G1
TVPR-16-G1-9-x-730	16	900	3000	49	4,269	87	B1-U3-G1	4,564	93	B1-U3-G1	4,533	93	B1-U3-G1	4,806	98	B3-U3-G1
TVPR-16-G1-1-x-730	16	1050	3000	57	4,811	85	B1-U3-G1	5,144	90	B1-U3-G1	5,109	90	B1-U3-G1	5,417	95	B3-U3-G1
TVPR-32-G1-5-x-730	32	530	3000	53	5,380	101	B1-U3-G1	5,602	105	B1-U3-G1	5,611	105	B1-U3-G1	5,884	110	B3-U3-G2
TVPR-32-G1-7-x-730	32	700	3000	70	6,792	97	B2-U3-G2	7,071	101	B1-U3-G2	7,083	101	B1-U3-G2	7,428	106	B3-U3-G2
TVPR-32-G1-8-x-730	32	800	3000	80	7,558	94	B2-U3-G2	7,869	98	B1-U3-G2	7,882	98	B2-U3-G2	8,266	103	B3-U3-G2
TVPR-32-G1-1-x-730	32	1050	3000	108	9,494	88	B2-U3-G2	9,885	91	B2-U3-G2	9,901	91	B2-U3-G2	10,383	96	B4-U3-G2
TVPR-48-G1-5-x-730	48	530	3000	81	8,202	102	B2-U3-G2	8,539	106	B2-U3-G2	8,553	106	B2-U3-G2	8,970	111	B4-U3-G2
TVPR-48-G1-7-x-730	48	700	3000	105	10,296	98	B2-U3-G2	10,720	102	B2-U3-G2	10,737	102	B2-U3-G2	11,260	107	B4-U3-G2
TVPR-16-G1-5-x-740	16	530	4000	29	3,023	103	B1-U2-G1	3,232	111	B1-U2-G1	3,210	110	B1-U3-G1	3,404	116	B2-U3-G1
TVPR-16-G1-7-x-740	16	700	4000	39	3,825	99	B1-U2-G1	4,089	106	B1-U2-G1	4,062	105	B1-U3-G1	4,306	112	B2-U3-G1
TVPR-16-G1-9-x-740	16	900	4000	49	4,693	95	B1-U3-G1	5,018	101	B1-U3-G1	4,984	101	B1-U3-G1	5,284	107	B3-U3-G1
TVPR-16-G1-1-x-740	16	1050	4000	58	5,290	92	B1-U3-G1	5,655	98	B1-U3-G1	5,617	98	B1-U3-G1	5,955	104	B3-U3-G1
TVPR-32-G1-5-x-740	32	530	4000	54	5,915	110	B1-U3-G1	6,159	114	B1-U3-G1	6,169	114	B1-U3-G1	6,469	120	B3-U3-G2
TVPR-32-G1-7-x-740	32	700	4000	71	7,467	105	B2-U3-G2	7,775	110	B1-U3-G2	7,787	110	B1-U3-G2	8,166	115	B3-U3-G2
TVPR-32-G1-8-x-740	32	800	4000	81	8,310	102	B2-U3-G2	8,652	106	B2-U3-G2	8,666	107	B2-U3-G2	9,088	112	B3-U3-G2
TVPR-32-G1-1-x-740	32	1050	4000	110	10,438	95	B2-U3-G2	10,868	99	B2-U3-G2	10,886	99	B2-U3-G2	11,416	104	B4-U3-G2
TVPR-48-G1-5-x-740	48	530	4000	82	9,017	110	B2-U3-G2	9,389	115	B2-U3-G2	9,404	115	B2-U3-G2	9,862	121	B4-U3-G2
TVPR-48-G1-7-x-740	48	700	4000	106	11,319	107	B2-U3-G2	11,786	111	B2-U3-G2	11,605	111	B2-U3-G2	12,379	117	B4-U3-G2

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at outdoorlighting.applications@philips.com. Consult DLC QPL to confirm your specific fixture selection is DLC approved.

Note: Some data may be scaled based on tests of similar but not identical luminaries.

TVPC/TVPR TownView

Post top and arm mount luminaire

LED Lumen values - TVPR (Vertical Ribbed Panels and House-side shield)

Ordering Code	LED qty.	System Current (mA).	Color Temp.	Avg. System Wattage (W)	Type 2SH			Type 3SH			Type 3WSH		
					Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
TVPR-16-G1-5-x-730	16	530	3000	29	2,210	76	B1-U2-G1	2,457	85	B1-U2-G1	2,265	78	B1-U3-G1
TVPR-16-G1-7-x-730	16	700	3000	38	2,796	73	B1-U2-G1	3,108	82	B1-U2-G1	2,865	75	B1-U3-G1
TVPR-16-G1-9-x-730	16	900	3000	49	3,431	70	B1-U3-G1	3,814	78	B1-U3-G1	3,516	72	B1-U3-G1
TVPR-16-G1-1-x-730	16	1050	3000	57	3,866	68	B1-U3-G1	4,299	76	B1-U3-G1	3,963	70	B1-U3-G1
TVPR-32-G1-5-x-730	32	530	3000	53	4,265	80	B1-U3-G1	4,610	86	B1-U3-G1	4,476	84	B1-U3-G1
TVPR-32-G1-7-x-730	32	700	3000	70	5,385	77	B1-U3-G1	5,820	83	B1-U3-G1	5,651	80	B1-U3-G2
TVPR-32-G1-8-x-730	32	800	3000	80	5,992	75	B1-U3-G1	6,476	81	B1-U3-G1	6,288	78	B1-U3-G2
TVPR-32-G1-1-x-730	32	1050	3000	108	7,527	69	B2-U3-G2	8,135	75	B2-U3-G2	7,899	73	B2-U3-G2
TVPR-48-G1-5-x-730	48	530	3000	81	6,502	80	B1-U3-G2	7,028	87	B1-U3-G2	6,824	84	B1-U3-G2
TVPR-48-G1-7-x-730	48	700	3000	105	8,162	78	B2-U3-G2	8,822	84	B2-U3-G2	8,566	82	B2-U3-G2
TVPR-16-G1-5-x-740	16	530	4000	29	2,430	83	B1-U2-G1	2,701	92	B1-U2-G1	2,490	85	B1-U3-G1
TVPR-16-G1-7-x-740	16	700	4000	39	3,074	80	B1-U2-G1	3,418	89	B1-U2-G1	3,150	82	B1-U3-G1
TVPR-16-G1-9-x-740	16	900	4000	49	3,772	76	B1-U3-G1	4,193	85	B1-U3-G1	3,866	78	B1-U3-G1
TVPR-16-G1-1-x-740	16	1050	4000	58	4,251	74	B1-U3-G1	4,726	82	B1-U3-G1	4,357	76	B1-U3-G1
TVPR-32-G1-5-x-740	32	530	4000	54	4,690	87	B1-U3-G1	5,068	94	B1-U3-G1	4,921	91	B1-U3-G1
TVPR-32-G1-7-x-740	32	700	4000	71	5,920	83	B1-U3-G1	6,398	90	B1-U3-G1	6,213	88	B1-U3-G2
TVPR-32-G1-8-x-740	32	800	4000	81	6,588	81	B1-U3-G1	7,120	88	B1-U3-G1	6,914	85	B1-U3-G2
TVPR-32-G1-1-x-740	32	1050	4000	110	8,276	76	B2-U3-G2	8,944	82	B2-U3-G2	8,685	79	B2-U3-G2
TVPR-48-G1-5-x-740	48	530	4000	82	7,149	88	B1-U3-G2	7,727	95	B1-U3-G2	7,502	92	B1-U3-G2
TVPR-48-G1-7-x-740	48	700	4000	106	8,974	85	B2-U3-G2	9,699	92	B2-U3-G2	9,418	89	B2-U3-G2

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at outdoorlighting.applications@philips.com. Consult DLC QPL to confirm your specific fixture selection is DLC approved.

Note: Some data may be scaled based on tests of similar but not identical luminaries.

Specifications

Housing

Roof and Cage: Two Style options
C: Curved Roof and **S:** Square Roof. Tool-less latch made of stainless steel allows for quick access inside of the hinged roof to locate the driver, surge protector and optional FAWs (field adjustable wattage solution). Roof and Cage made of 360 low-copper die-cast. aluminum alloy. Decorative Cupola on top of roof covers the 7 pin NEMA socket.

Panels: Two panel options made of U.V. Stabilized Acrylic.

C: Visual Comfort panels help to eliminate glare and pixelization and give a soft glow at night

R: Vertical Ribbed panels, for a clear look during the day and performance at night

All panels have tool-less removal for ease of cleaning or replacement. (exception for arm mount)

Fitter: Two fitter options. **L:** Large Utility Fitter with tool-less door to access the terminal block and wiring. Available in 3" or 4"
Or **S:** Small Fitter. Small fitter available in 2" 3/8, 3" or 4". Large 4" fitter uses a secondary adaptor to achieve 4" opening.

Light Engine

Composed of 4 main components: **LED Module / Optical System / Heat Sink / Driver.** Electrical components are RoHS compliant, IP66 sealed light engine LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

LED Module

Composed of high-performance white LEDs. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K) CRI 80 min, 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory.

Heat Sink

Made of die cast aluminum optimizing the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device). Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +40°C / +104°F.

Optical System

Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Type **2S, 3S, 3W** and **Type 5** Street side indicated. House side shield optional (can be field installed) **2SH:** Type 2 with House Side Shield, **3SH:** Type 3 short with house side shield, **3WH:** Type 3 Wide with House side shield

TOWN OF AMHERST APPROVAL BOX:

5.a

CARMINAWO...

...ensboro

Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/24/2024

DRAWING NAME:

Lighting ...

Date: ../29/25

Drawn By: C. Wood

Scale: As Noted

DRAWING NO.

Project No.: 20.247

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

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TVPC/TVPR TownView

Post top and arm mount luminaire

Specifications (continued)

Driver:

Driver comes standard with 0-10V dimming capability. High power factor of 95%. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277, 347 and 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. Maximum ambient operating temperature from 40°F (4°C) to 130°F (55°C). Certified in compliance to UL1310 cULus requirement (dry and damp location).] The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Integrated Features

R7*: Tool less rotatable receptacle with 7 pins enabling dimming and additional functionality (to be determined), can be used with a twist lock Interact City node or photoelectric cell or a shorting cap.
SP1: Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA.
SP2: Optional 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.
NEMA Labels: Installed NEMA label, ANSI C136.15-2015 compliant. Consult factory for other labeling needs.
Please note that these integrated features always come with the luminaire.
** Use of photoelectric cell or shorting cap is required to ensure proper illumination.*

Driver and Luminaire Options

Dimming Options:
DA: 4 Hrs 25% reduction
DB: 4 Hrs 50% reduction
DC: 4 Hrs 75% reduction
DD: 6 Hrs 25% reduction
DE: 6 Hrs 50% reduction
DF: 6 Hrs 75% reduction
DG: 8 Hrs 25% reduction
DH: 8 Hrs 50% reduction
DJ: 8 Hrs 75% reduction
DL: Pre-set driver compatible with the DALI control system. Logarithmic standard
SRD: Sensor Ready Driver including SR communication (used for dimming and other functionalities), 24V auxiliary supply and a logical signal input (LSI) connected to the top NEMA twist lock receptacle and bottom **TLRSR** receptacle, if this option included/ chosen. This configuration is compatible with Interact City controllers.
AST: Pre-set driver for progressive start-up of the LED module(s) to optimize energy management and enhance visual comfort at start-up.
CLO: Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during the entire lifespan of the LED module.
OTL: Pre-set driver to signal end of life of the LED module(s) for better fixture management.
FAWS: Field Adjustable Wattage Selector, pre-set to the highest position, can be easily switched in the field to the required position. This reduces total luminaire wattage consumption and reduces the light level – see the FAWS multiplier chart for more details.
Note: It is not recommended to use FAWS with other dimming or controls; if you do, set the switch to position 10 (maximum output) to enable the other dimming or controls. Switching FAWS to any position other than 10 will disable the other dimming or controls.
DALI: Pre-set driver compatible with DALI contorl system.
SRD: Sensor Ready Driver including SR communication (used for dimming and other functionalities), 24V auxiliary supply and a logical signal input (LSI) connected to the top NEMA twist lock receptacle. SRD1: Sensor Ready Driver including SR communication (used for dimming and other functionalities) but with 24V auxiliary supply and a logical signal input (LSI) not connected to the top NEMA twist lock.

PH8: 7 Pin Tooless rotatable standard - with photocell. Photocell has dimensional limits: 3" dia x 2" tall (for non black finishes only)



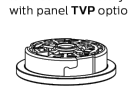
PH9: 7 Pin Tooless rotatable standard - with shorting cap



PHX: 7 Pin Tooless rotatable standard - with long life photocell. Photocell has dimensional limits: 3" dia x 2" tall (for non black finishes only)



SR: Sensor ready receptacle located on the heat sink between two LED boards. Cannot be combined With 16 or 48 LED's or horizontal lens. Contact factory for use with panel **TVP** options.



L: Decorative Ladder Rest. Ships in the box, install on site



2H, 3SH, 3WH: House side shield option



TVPC/TVPR TownView

Post top and arm mount luminaire

Specifications (continued)

Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, System Reliability Tool, Philips Advance data and LED manufacturer LM-80/TM-21 data, expected to reach 100,000 + hours (72W32LED and 108W48LED at 700mA) or 94,500 hours (108W32LED and 160W48LED at 1050mA) with >L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

Wiring

18AWG wire, 6" (15mm) minimum extending from luminaire.

Optional Terminal block

Terminal block connector 600V, 85A for use with #14-2 AWG wires from the primary circuit, located inside the housing. Due to the inrush current that occurs with electronic drivers, recommend using a 10Amp time-delay fuse to avoid unwanted fuse blowing (false tripping) that can occur with normal or fast acting fuses. Fuses and holders by others or consult factory

Hardware

All non-ferrous fasteners prevent corrosion and ensure longer life. All seals and sealing devices are made and/or lined with EPDM silicone rubber.

Finish

Color in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with 1 mils / 24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

BKS: Black Smooth
WHS: White Smooth
BZS: Bronze Smooth
GNS: Green Smooth
BK: Black Texture
WH: White Texture
BZ: Bronze Texture
GN: Green Texture

LED products manufacturing standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards to eliminate ESD events that could decrease the useful life of the product.

Vibration Resistance

S2, S3, S4 Fitter and A Arm Mount Meets the ANSI C136.31, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications (Tested for 3G over 100,000 cycles).

Certifications and Compliance

cETL listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards. UL8750 and UL1598 compliant. ETL listed to U.S. safety standards for wet locations. cETL listed to Canadian safety standards for wet locations. LM80 & LM79 tested. Listed on the DesignLights TM Consortium (DLC) Qualified Products List (QPL).ANSI C136 standards: .2, .3, .10, .14, .15, .22, .25, .31, .37, .41.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away.
For more details visit: **philips.com/servicetag**

Limited Warranty

5 year standard warranty. Options available for extended warranties – contact factory.
See **signify.com/warranties** for details and restrictions.

Brackets and Poles

Visit the website for pole and post top bracket options.

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CARMINAWOOD

Single Family Subdivision

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/24/2024

TOWN OF AMHERST APPROVAL BOX:

DRAWING NAME:
Lighting

Date: ../29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

Project No. 20.247

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

Appendix H

Soils Information

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrologic Soil Group—Erie County, New York



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 20, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2020—Jul 10, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ch	Cheektowaga fine sandy loam	C/D	1.3	19.7%
ElB	Elnora loamy fine sand, 3 to 8 percent slopes	A/D	3.4	52.7%
Wd	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	B/D	1.8	27.6%
Totals for Area of Interest			**6.4**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Soil Map—Erie County, New York



Map Scale: 1:1,710 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 25 50 100 150

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 20, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2020—Jul 10, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ch	Cheektowaga fine sandy loam	1.3	19.7%
ElB	Elnora loamy fine sand, 3 to 8 percent slopes	3.4	52.7%
Wd	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	1.8	27.6%
Totals for Area of Interest		**6.4**	**100.0%**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Drainage Class—Erie County, New York



Map Scale: 1:1,710 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 25 50 100 150

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Soil Rating Lines

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Soil Rating Points

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 20, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2020—Jul 10, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Drainage Class

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ch	Cheektowaga fine sandy loam	Very poorly drained	1.3	19.7%
ElB	Elnora loamy fine sand, 3 to 8 percent slopes	Moderately well drained	3.4	52.7%
Wd	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	Poorly drained	1.8	27.6%
Totals for Area of Interest			**6.4**	**100.0%**

Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

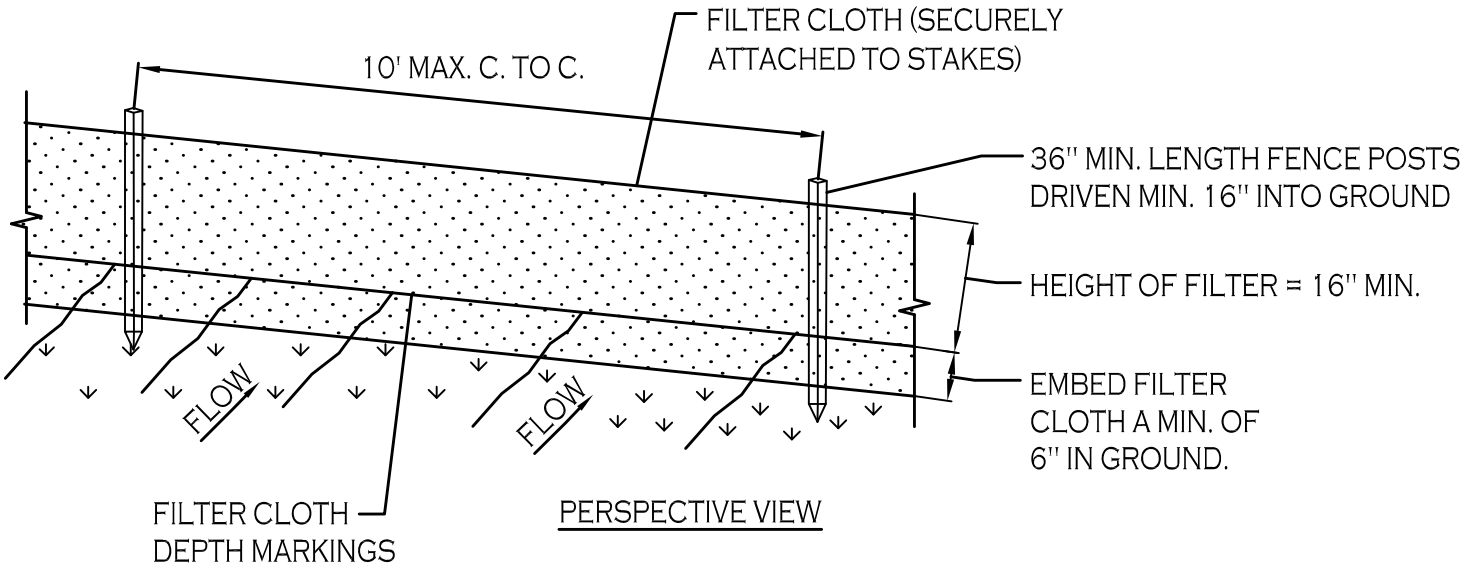
Tie-break Rule: Higher

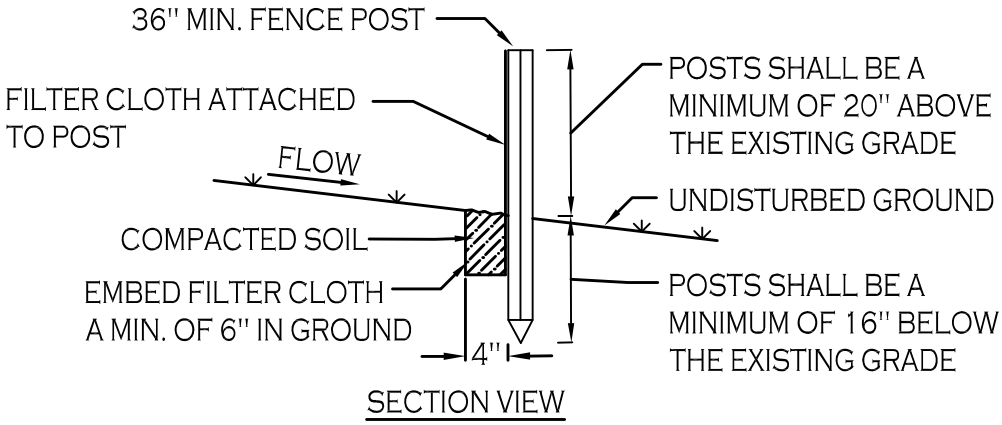
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix J

Standard Erosion Control Details

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)





CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.

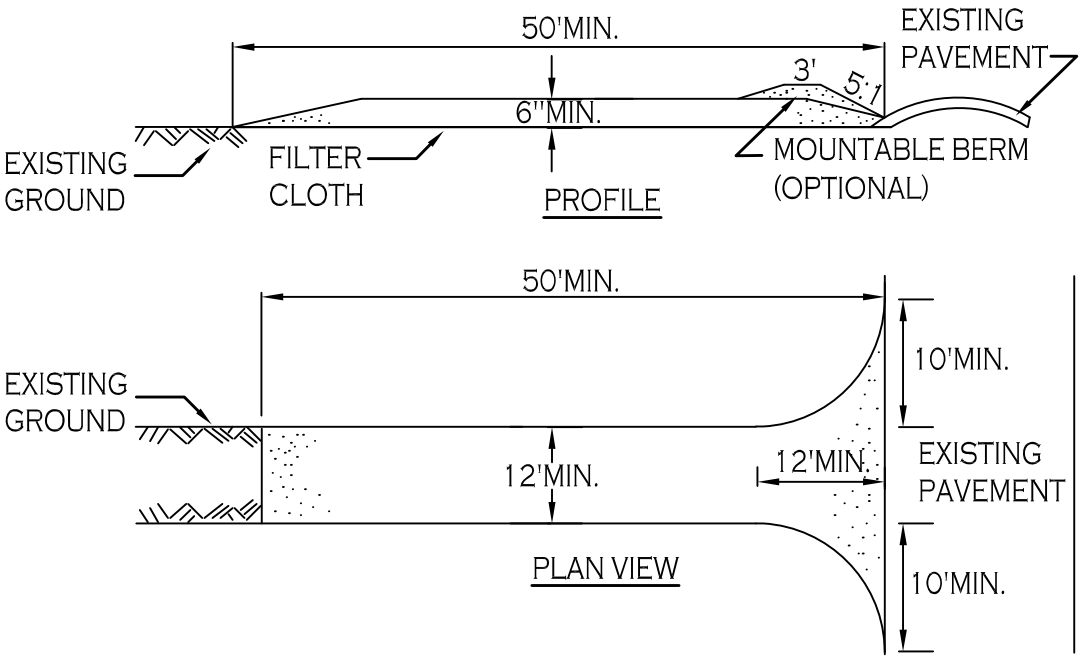
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.

3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).

3. THICKNESS - NOT LESS THAN SIX (6) INCHES.

4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

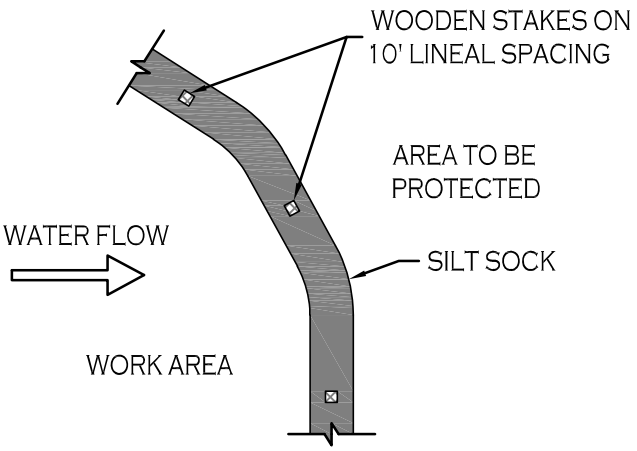
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

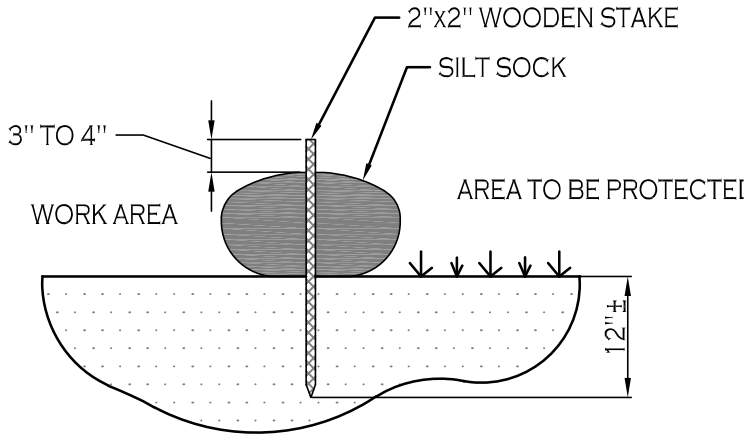
STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



PLAN VIEW



SECTION VIEW

NOTES:

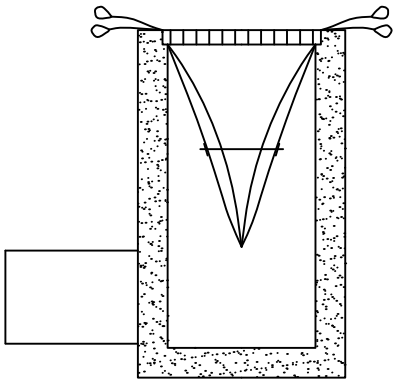
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED $\frac{1}{2}$ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

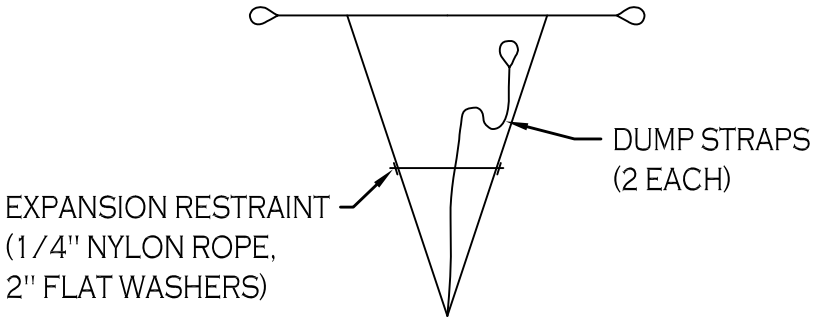
SILT SOCK DETAIL

NOT TO SCALE

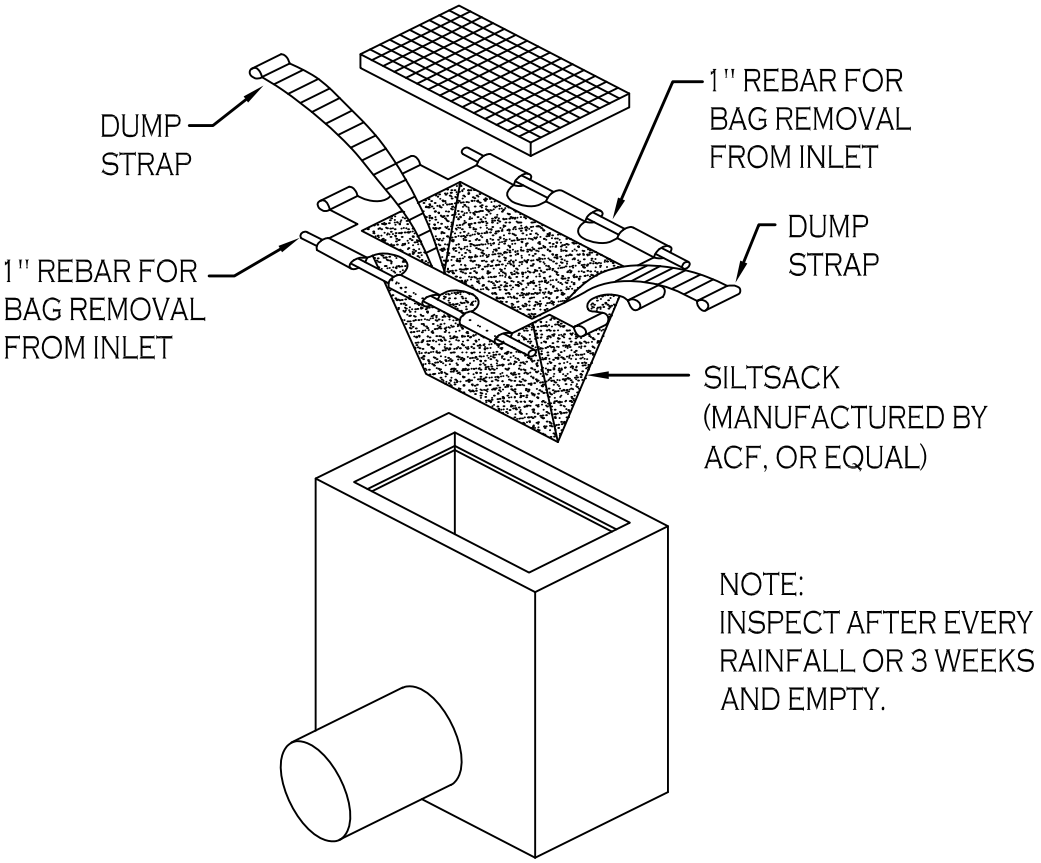
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



INSTALLATION DETAIL



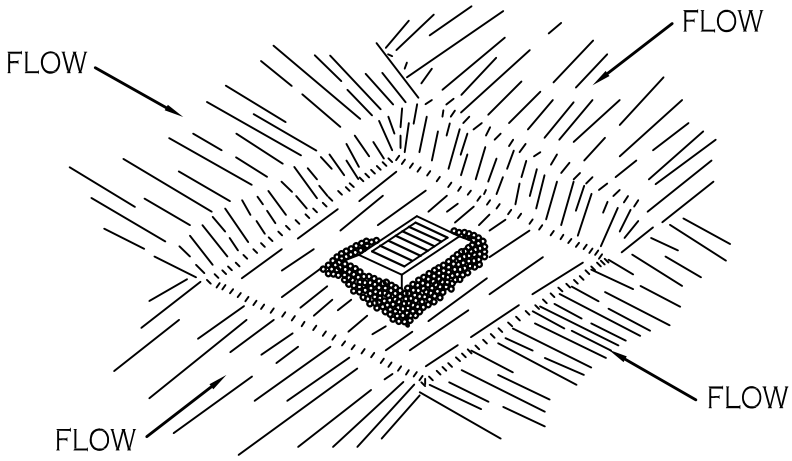
BAG DETAIL

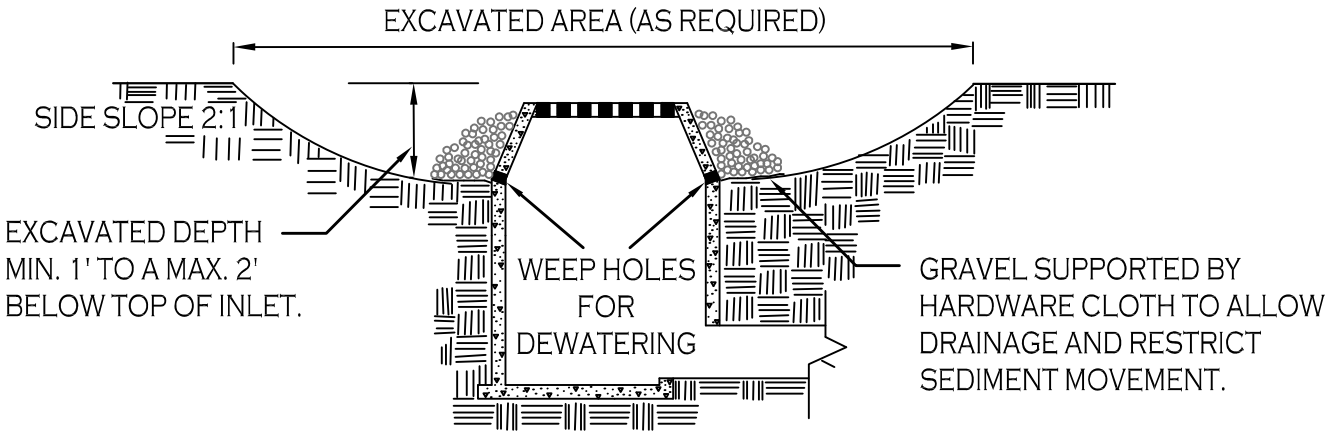


SILT SACK DETAIL

NOT TO SCALE

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)





CONSTRUCTION SPECIFICATIONS

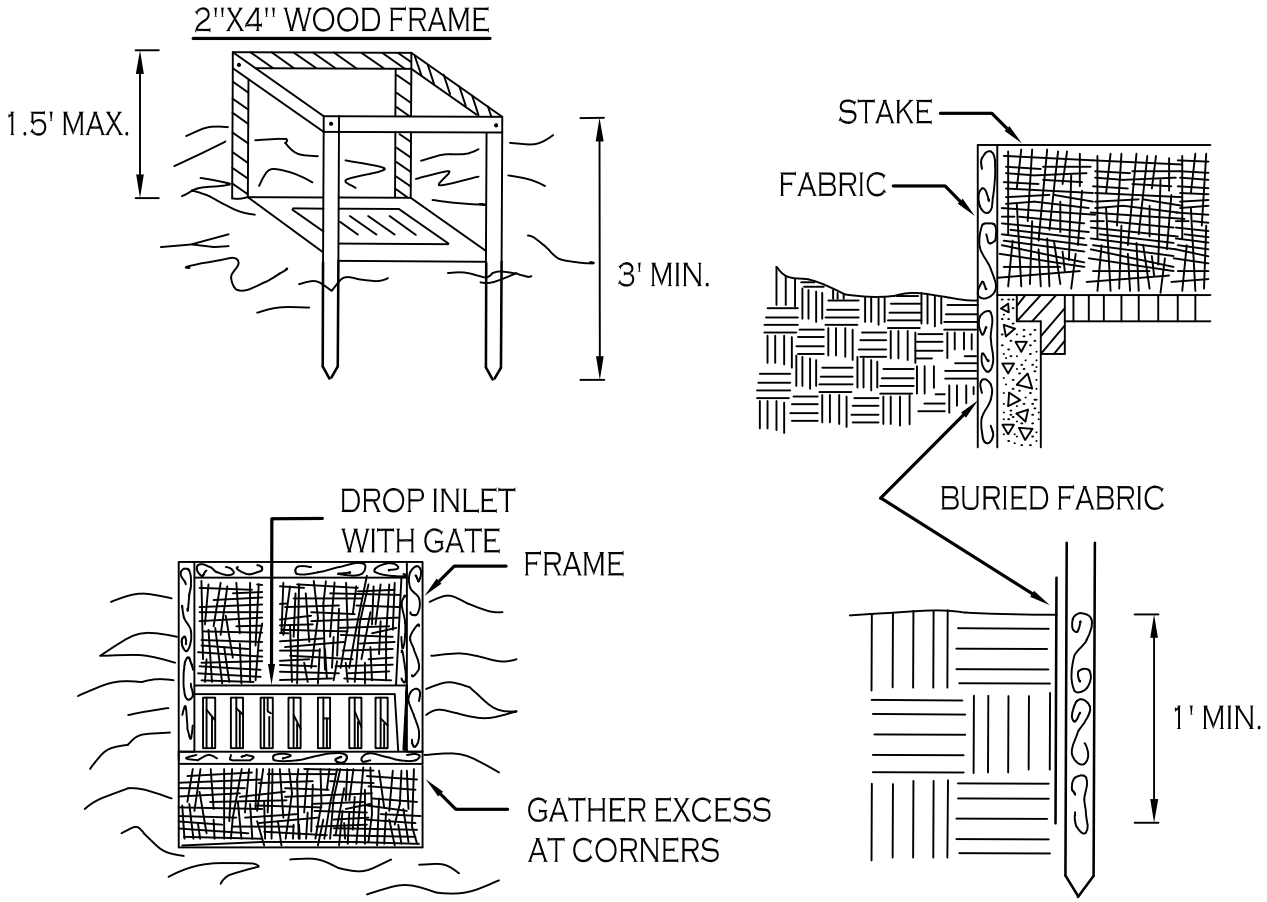
1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.

2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.

3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.

4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.

5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.

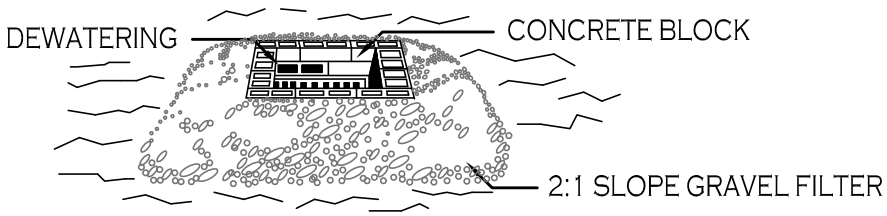
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUN DRAINAGE AREA 1 ACRE

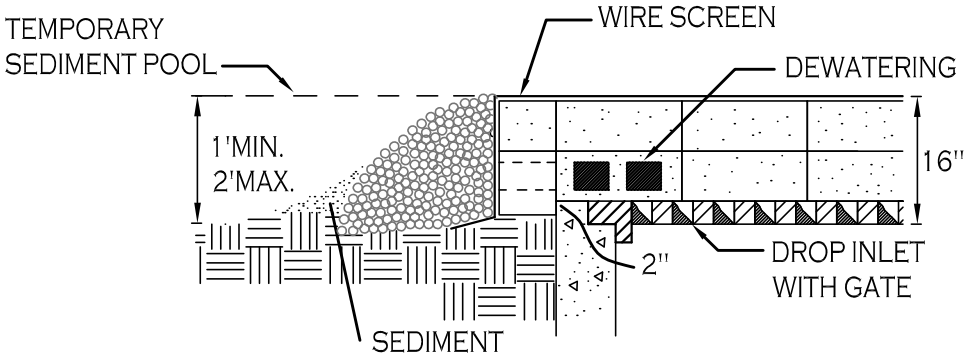
INLET PROTECTION DETAIL 2

NOT TO SCALE

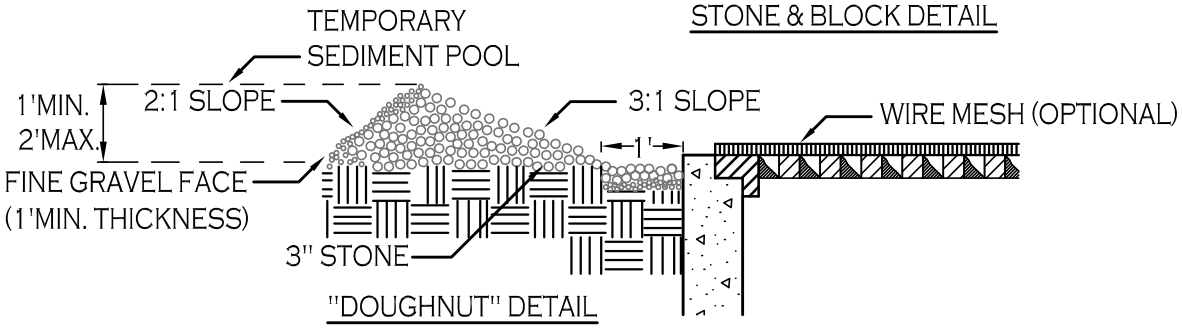
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL



"DOUGHNUT" DETAIL

CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.

2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.

3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.

4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

NOT TO SCALE

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

EXISTING TREE PROTECTION FENCE

MATERIALS

MATERIALS FOR TEMPORARY PLASTIC BARRIER FENCES SHALL MEET THE FOLLOWING REQUIREMENTS:

- FENCE: HIGH-DENSITY POLYETHYLENE MESH, ULTRAVIOLET-STABILIZED MIN. 2 YEARS; MINIMUM HEIGHT 4.0 FEET. COLOR: HIGH-VISIBILITY ORANGE OR GREEN. WHEN USED TO PROTECT TREES OR OTHER VEGETATION, COLOR SHALL BE HIGH-VISIBILITY ORANGE.
- POSTS: RIGID METAL OR WOOD POSTS, MINIMUM LENGTH 6.0 FEET.
- TIES: STEEL WIRE, #14 GAUGE OR NYLON CABLE TIES.
- WARNING SIGNS: SHEET METAL, PLASTIC OR OTHER RIGID, WATERPROOF MATERIAL, 1.5 FEET BY 2.0 FEET WITH 4 INCH BLACK LETTERS ON A WHITE BACKGROUND. TEXT SHALL BE: "PROTECTED SITE - KEEP OUT" UNLESS OTHERWISE SPECIFIED.

DETAILS

FENCES SHALL BE ERECTED PRIOR TO MOVING CONSTRUCTION EQUIPMENT ONTO ANY AREA DESIGNATED FOR PROTECTION.

THE LINE OF FENCES SHALL BE STAKED OR MARKED OUT ON THE GROUND BY THE CONTRACTOR AND APPROVED BY THE ENGINEER/OWNER BEFORE ANY FENCE IS INSTALLED. WHERE USED FOR PROTECTION OF INDIVIDUAL TREES, FENCE SHALL BE PLACED AT THE DRIP LINE (EXTENT OF CANOPY). IF NOT POSSIBLE, PLACEMENT SHALL BE AS CLOSE TO THE DRIP LINE AS POSSIBLE AND IN NO CASE LESS THAN 5.0 FEET AWAY FROM THE TREE TRUNK.

ON APPROVAL OF THE STAKEOUT, POSTS SHALL BE SECURELY DRIVEN ON 6.0 FOOT-MAXIMUM CENTERS, NORMAL TO THE GROUND, TO A DEPTH 1/3 OF THE TOTAL POST LENGTH. PLASTIC BARRIER FENCE SHALL BE PLACED ALONG THE SIDE OF ALL POSTS. ENDS OF FENCING SEGMENTS SHALL OVERLAP A DISTANCE OF AT LEAST ONE HALF THE FENCE HEIGHT.

FENCING SHALL BE SECURED TO POSTS WITH WIRE OR CABLE TIES AT TOP, MIDDLE AND BOTTOM OF POST. FASTENER SHALL BE TIGHT ENOUGH TO PREVENT THE FENCING FROM SLIPPING DOWN. OVERLAPS SHALL ALSO BE SECURELY FASTENED.

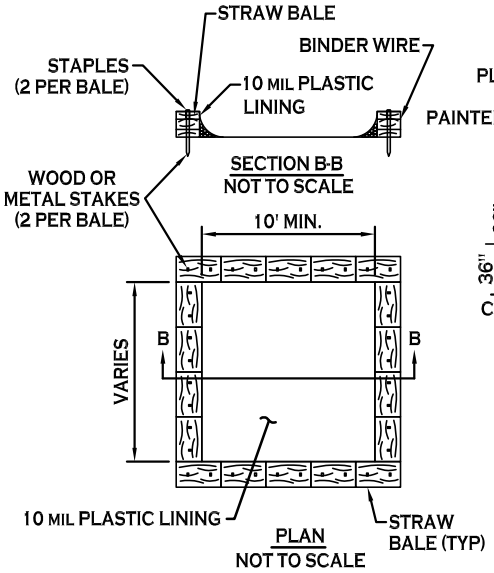
BARRIER FENCE WHICH IS NOT ORANGE IN COLOR SHALL BE FLAGGED AT 6.0 FOOT INTERVALS WITH RED OR ORANGE FLORESCENT TAPE. WARNING SIGNS SHALL BE MOUNTED ON THE FENCE AT NO MORE THAN 100 FOOT INTERVALS.

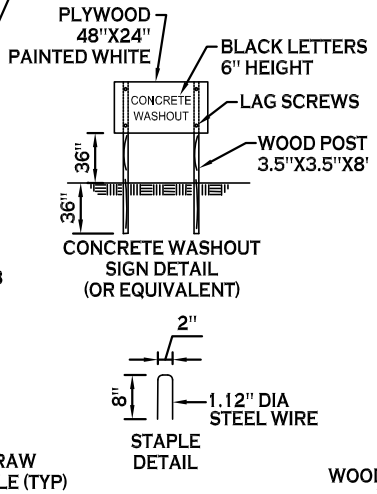
MAINTENANCE SHALL COMMENCE IMMEDIATELY AFTER ERECTION OF THE FENCE AND CONTINUE UNTIL ONE WEEK PRIOR TO ACCEPTANCE OF THE CONTRACT, AND SHALL CONSIST OF: REPLACING DAMAGED POST(S) AND FENCING; RE-FASTENING AND TIGHTENING FENCING; AND RESTORING FENCE TO ITS INTENDED HEIGHT.

FENCING USED FOR TREE OR OTHER VEGETATION PROTECTION SHALL NOT BE TEMPORARILY REMOVED TO ALLOW EQUIPMENT ACCESS OVER A PROTECTED AREA, EXCEPT AS REQUIRED FOR ITEMS OF WORK SPECIFICALLY SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER IN WRITING.

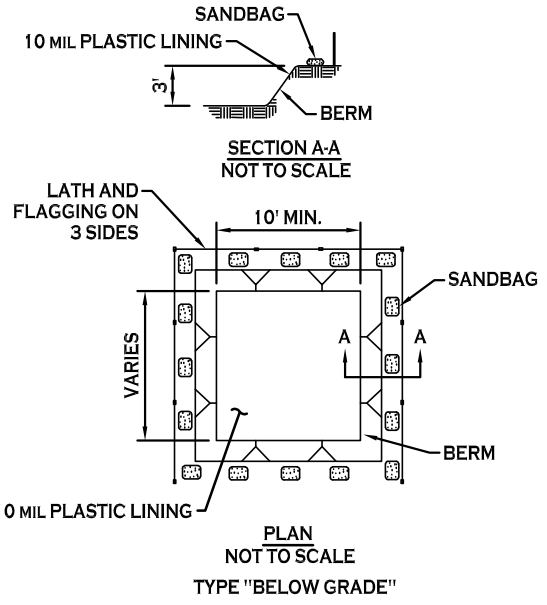
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

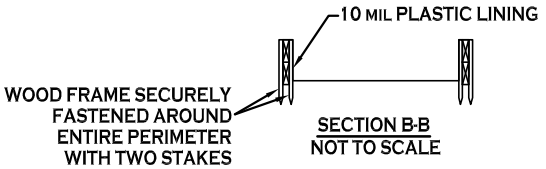




TYPE "ABOVE GRADE" WITH STRAW BALES

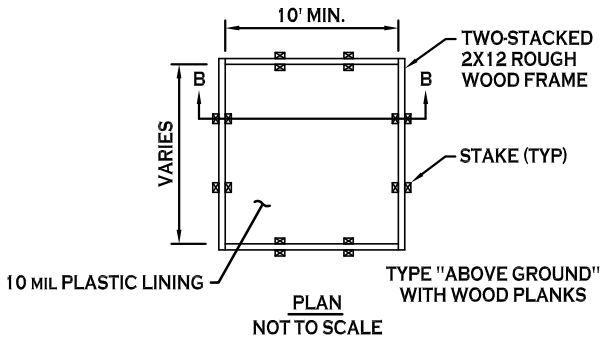


TYPE "BELOW GRADE"



NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

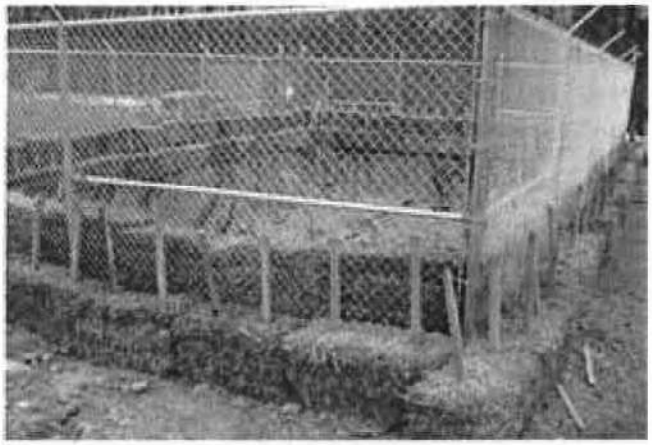


TYPE "ABOVE GROUND" WITH WOOD PLANKS

CONCRETE WASHOUT DETAIL

NOT TO SCALE

STANDARD AND SPECIFICATIONS FOR CONCRETE TRUCK WASHOUT



Definition & Scope

A temporary excavated or above ground lined constructed pit where concrete truck mixers and equipment can be washed after their loads have been discharged, to prevent highly alkaline runoff from entering storm drainage systems or leaching into soil.

Conditions Where Practice Applies

Washout facilities shall be provided for every project where concrete will be poured or otherwise formed on the site. This facility will receive highly alkaline wash water from the cleaning of chutes, mixers, hoppers, vibrators, placing equipment, trowels, and screeds. Under no circumstances will wash water from these operations be allowed to infiltrate into the soil or enter surface waters.

Design Criteria

Capacity: The washout facility should be sized to contain solids, wash water, and rainfall and sized to allow for the evaporation of the wash water and rainfall. Wash water shall be estimated at 7 gallons per chute and 50 gallons per hopper of the concrete pump truck and/or discharging drum. The minimum size shall be 8 feet by 8 feet at the bottom and 2 feet deep. If excavated, the side slopes shall be 2 horizontal to 1 vertical.

Location: Locate the facility a minimum of 100 feet from drainage swales, storm drain inlets, wetlands, streams and other surface waters. Prevent surface water from entering the structure except for the access road. Provide appropriate access with a gravel access road sloped down to the structure. Signs shall be placed to direct drivers to the facility after their load is discharged.

Liner: All washout facilities will be lined to prevent leaching of liquids into the ground. The liner shall be plastic sheeting with a minimum thickness of 10 mils with no holes or tears, and anchored beyond the top of the pit with an earthen berm, sand bags, stone, or other structural appurtenance except at the access point.

If pre-fabricated washouts are used they must ensure the capture and containment of the concrete wash and be sized based on the expected frequency of concrete pours. They shall be sited as noted in the location criteria.

Maintenance

- All concrete washout facilities shall be inspected daily. Damaged or leaking facilities shall be deactivated and repaired or replaced immediately. Excess rainwater that has accumulated over hardened concrete should be pumped to a stabilized area, such as a grass filter strip.
- Accumulated hardened material shall be removed when 75% of the storage capacity of the structure is filled. Any excess wash water shall be pumped into a containment vessel and properly disposed of off site.
- Dispose of the hardened material off-site in a construction/demolition landfill. On-site disposal may be allowed if this has been approved and accepted as part of the projects SWPPP. In that case, the material should be recycled as specified, or buried and covered with a minimum of 2 feet of clean compacted earthfill that is permanently stabilized to prevent erosion.
- The plastic liner shall be replaced with each cleaning of the washout facility.
- Inspect the project site frequently to ensure that no concrete discharges are taking place in non-designated areas.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix K

Wetland Delineation Report

by Earth Dimensions Inc. Dated 12/21/2020

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Wetland and Waterbodies Delineation Report

for

1789 Dodge Road

Town of Amherst

Erie County, New York

for

Joe Rubino



December 21, 2020
EDI Project Code: **W20J20a**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

REPORT SUMMARIZING THE RESULTS OF A WETLAND DELINEATION SURVEY OF

1789 DODGE ROAD

Prepared for Submission to:

U.S. ARMY CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO, NEW YORK 14207

AND

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
270 MICHIGAN AVENUE
BUFFALO, NEW YORK 14203

Prepared By:

EARTH DIMENSIONS, INC.
1091 JAMISON ROAD
ELMA, NEW YORK 14059

Prepared For:

JOE RUBINO
HOWARD HANNA OFFICE
4562 SHERIDAN DRIVE
WILLIAMSVILLE, NEW YORK 14221

REPORT DATE: December 21, 2020

EDI PROJECT CODE: W20J20a

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

PROJECT INFORMATION

Project Name	1789 Dodge Road
Street Address	1789 Dodge Road
SBL Number	42.00-1-45.2
Town	Clarence Center
County	Erie
State	New York
Latitude/Longitude (NAD83)	43.02971°N, 78.72732°W
Investigation Area	6.71± Acres
USGS 7.5 Minute Topographical Map	Clarence Center Quadrangle
Waterway	tributary to Ransom Creek
Hydrologic Unit Code	04120104
Date of Delineation	November 23, 2020
Consultant	Earth Dimensions, Inc. 1091 Jamison Road Elma, New York 14059
Point of Contact	Scott Livingstone (716) 655-1717 slivingstone@earthdimensions.com
Engineer	NA
Property Owner	Joe Rubino
Authority	Section 404, Article 24
Permit/Letter Being Requested	Jurisdictional Determination

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

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Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

EXECUTIVE SUMMARY

Joe Rubino has proposed the development of a 6.71± acre parcel located along the east side of Dodge Road in the Town of Amherst, County of Erie, and State of New York. Joe Rubino has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation report that would allow the U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) to determine their jurisdictional authority over the investigation area, pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

A preliminary review of available information pertaining to vegetation, soils, and hydrology in the project area was implemented prior to conducting a field investigation at the site. Sources of information included the United States Geological Survey (USGS), Natural Resources Conservation Service (NRCS), National Wetland Inventory (NWI), and NYSDEC Freshwater Wetland maps. The USGS, NRCS and NWI maps indicate the potential for wetlands under federal jurisdiction. The NYSDEC map indicates the potential for wetland under state jurisdiction.

EDI applied methodology specified by the Corps of Engineers Wetlands Delineation Manual (January 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0 (January 2012) to perform a delineation of Federal jurisdictional wetlands within the site. EDI identified one (1) wetland area totaling 0.054± acre within the investigation area. A tributary to Ransom Creek flows along the eastern limits of the investigation area. The identification number of the wetland, its acreage and boundary flags are as follows:

TABLE 1: WETLAND SUMMARY

Wetland Identification #	Geographic Center (NAD83)		Boundary Flag #	Total Acreage On-site	Wetland Type (Cowardin)	Wetland Type (Reschke)	Jurisdictional Determination
	Latitude	Longitude					
Wetland 1	43.02960	78.72558	W1-1 through W1-7	0.054±	R4SBC	Riverine	Jurisdictional
Total Wetland Acreage:				0.054±			

TABLE 2: STREAM & DRAINAGE SUMMARY

Stream Identification #	Waterway	DEC Class	Linear Feet On-site	Highwater Width (Ft)	Flow Regime	Substrate	Classification (Cowardin)	Jurisdictiona Determinatio
Stream 1	UNT to Ransom Creek/ Town of Amherst Ditch 26B	C	436.3 feet	20 to 25	Intermittent	Organic, silt	R4SB6	Jurisdictiona

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

SECTION I: INTRODUCTION

Joe Rubino has proposed the development of a 6.71± acre parcel on the east side of Dodge Road in the Town of Amherst, County of Erie, and State of New York. The project has been given the name 1789 Dodge Road and is located on USGS 7.5 minute quadrangle map indexed as Clarence Center/2002 DeLorme (Figure 1). The field work was completed on November 23, 2020 using a hand held Garmin GPSmap 62s to locate wetland and drainage boundaries.

Howard Hanna has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study at this site. The investigation was designed to facilitate a determination of the extent of USACE and NYSDEC jurisdiction over the project area pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

EDI has performed a wetland delineation study at the site under guidelines specified by the *Corps of Engineers Wetlands Delineation Manual*, dated January 1987 (referred to hereafter as the Corps Manual) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region version 2.0* (January 2012) (referred to hereafter as the Northcentral and Northeast Regional Supplement). The purpose of this report is to present EDI's methods, results, conclusions and recommendations with respect to the 1789 Dodge Road project site.

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SECTION II: SITE DESCRIPTION

The 1789 Dodge Road project area is comprised of a 6.71± acre irregular shaped investigation area on the east side of Dodge Road which is outlined on Figure 1 and depicted on the Wetland Delineation Map included in Appendix A (Figure 6).

The natural topography of the 1789 Dodge Road site is flat to gently sloping. The uplands within the investigation area consisted of successional northern hardwoods and mown lawn communities. The wetland area was found to consist of a shallow emergent marsh community. The vegetative communities of the investigation area are described according to *Ecological Communities of New York State* (Edinger et al. 2014).

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

SECTION III: PRELIMINARY DATA REVIEW

A. SUMMARY OF FINDINGS

Several sources of information may be reviewed to facilitate the completion of a wetland delineation study. In some cases it is even possible to make a preliminary office wetland determination based upon available vegetation, soils, and hydrologic information for a project area. EDI completed a preliminary review of several data sources at the onset of this study. The results of the review are summarized as follows:

1. USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Figure 1 depicts the 1789 Dodge Road project site on the Clarence Center/2002 DeLorme quadrangle map. The figure depicts the flat to gently sloping topography of the site. A tributary to Ransom Creek is depicted along the eastern limits of the investigation area.

2. USFWS NATIONAL WETLANDS INVENTORY MAP

The National Wetlands Inventory (NWI) map obtained from the USFWS Wetland Mapper http://www.fws.gov/wetlands/Data/Mapper.html displays two (2) streams, R4SBCx and R4SBC within the investigation area. The streams can be decoded as:

[R] Riverine, [4] Intermittent, [SB] Stream Bed, [C] Seasonally flooded, [x] excavated; and

[R] Riverine, [4] Intermittent, [SB] Stream Bed, [C] Seasonally flooded

3. NATURAL RESOURCES CONSERVATION SERVICE SOILS MAP

Figure 3 presents the project area outlined on a copy of the Erie County Soil Survey map from the National Cooperative Soil Survey. As shown on that figure, the site has the following soil types:

Soil Conservation Service Legend

Map Unit Symbol	Map Unit Name	Hydric Soil/Inclusions?
Ch	Cheektowaga fine sandy loam	Hydric Soil
ElB	Elnora loamy fine sand, 3 to 8 percent slopes	Inclusions Unlikely
Wd	Wayland soils complex, 0 to 3 percent slopes	Hydric Soil

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Cheektowaga: The Cheektowaga series consists of very deep, poorly drained and very poorly drained soils formed in sandy deposits overlying clayey lacustrine sediments. They are nearly level soils on lake plains. Permeability is rapid in the surface and sandy subsoil, and slow or very slow in the substratum. Mean annual temperature is 48 degrees F., and mean annual precipitation is 40 inches.

Elnora: The Elnora series consists of very deep, moderately well drained soils formed in sandy glacial lake, eolian, and deltaic sediments. They are primarily on beach ridges and relict longshore bars on lake plains. Permeability is rapid. Slopes range from 0 to 8 percent. The mean annual temperature is 49 degrees F, and mean annual precipitation is 37 inches.

Wayland: The Wayland series consists of very deep, poorly drained and very poorly drained, nearly level soils formed in recent alluvium. These soils are in low areas or slackwater areas on flood plains. Saturated hydraulic conductivity is moderately high or high in the mineral soil. Slope ranges from 0 through 3 percent. Mean annual temperature is about 8 degrees C (46 degrees F) and mean annual precipitation is about 1080 mm (42.5 in).

The U.S. Department of Agriculture's National Technical Committee for Hydric Soils Criteria has developed a list of soils that often display hydric soil characteristics. Hydric soil typically forms in places of the landscape where surface water periodically collects for some time and/or where groundwater discharges sufficient to create waterlogged or anaerobic soils. Such anaerobic soils can support the growth and survival of hydrophytic vegetation that is tolerant of such conditions. Wayland and Cheektowaga are hydric soils and therefore may support wetland vegetation. Wetland hydrologic conditions, hydric soils, and hydrophytic vegetation are the three criteria of a wetland.

4. NYSDEC Freshwater Wetlands Map

The NYSDEC Freshwater Wetlands map obtained from the online NYSDEC Environmental Resource Mapper displays state jurisdictional Freshwater Wetland CC-15 within and adjacent to the investigation area pertaining primarily to the Ransom Creek floodplain.

B. RESULTS OF AGENCY INFORMATION REVIEW

The preliminary data review revealed that the Corps may have jurisdiction over wetlands at the project location. The evidence consisted of potential federally regulated wetlands on the NWI map (Figure 2) and hydric soils and soils with possible inclusions depicted within the project area as shown on the NRCS map (Figure 3). The preliminary data review indicated that NYSDEC may have jurisdiction

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SECTION IV: FIELD INVESTIGATION PROCEDURES

WETLANDS:

Step 1

EDI applied methodology specified by the 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region to perform a delineation of Federal jurisdictional wetlands within the site. EDI used the Level 2 Routine Determination method (on-site inspection necessary) since insufficient information was available for making a determination for the entire project area. This methodology is consistent with Part IV, Section D of the Corps Manual.

Step 2

EDI's initial evaluation of the project area revealed that no atypical situations existed. If an atypical situation had existed, EDI would have used methodology outlined in Part IV, Section F of the Corps manual and/or Section 5 of the Northcentral and Northeast Supplement.

Step 3

EDI made the determination that normal environmental conditions were present, as the area was not lacking hydrophytic vegetation or hydrologic indicators due to annual, seasonal or long-term fluctuations in precipitation, surface water, or groundwater levels. The Northcentral and Northeast Supplement defines the growing season as beginning when one of the following indicators of biological activity are evident in a given year: (1) above-ground growth and development of vascular plants and/or (2) soil temperature measured at 12" below ground surface reaches 41°F. The end of the growing season is defined as the point at which deciduous species lose their leaves or the last herbaceous plants cease flowering and their leaves become dry or brown, whichever comes latest.

Step 4

In order to accurately identify the limits of various vegetative communities and extent of wetlands on-site, a routine determination method was used. As depicted in Appendix A and included in Appendix B, two (2) data points were used to characterize the site.

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Step 5

The plant community inhabiting each observation point was characterized in accordance with methods specified in the Northcentral and Northeast Regional Supplement. Dominant plant species were identified within four vegetative strata (i.e. herb, sapling/shrub, tree and liana (woody vines) at each sampling point. The Northcentral and Northeast Regional Supplement defines the vegetative strata in the following manner:

Herb – A non-woody individual of a macrophytic species. Seedlings of woody plants (including vines) that are less than 3.28 feet in height are considered to be herbs.

Sapling/Shrub – A layer of vegetation composed of woody plants < 3.0 inches in diameter at breast height but greater than 3.28 feet in height, exclusive of woody vines.

Tree – A woody plant > 3.0 inches in diameter at breast height, regardless of height (exclusive of woody vines)

Liana – A layer of vegetation in forested plant communities that consist of woody vines greater than 3.28 feet in height.

As outlined in the manual, the quadrant sizes used for the vegetative strata were (i) a 3.28-foot radius for herbs; (ii) a ten-foot radius for saplings/shrubs and woody vines; and (iii) a 30-foot radius for trees. Dominant plant species were estimated using aerial coverage methods. Dominant species are defined in the Corps Manual as the most abundant plant species that when ranked in descending order of abundance and cumulatively totaled immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species comprising 20 percent or more of the total dominance measure.

The wetland indicator status (OBL, FACW, FAC, FACU, or UPL) listed for each identified species by the U.S. Fish and Wildlife Service in the National List of Plant Species that Occur in Wetlands: Northeast (Region 1) was recorded. The U.S. Fish and Wildlife wetland indicator status listings are defined as follows:

OBL – Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability < 1 percent) in nonwetlands.

FACW – Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands, but also occur (estimated probability 1 percent to 33 percent) in nonwetlands.

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FAC – Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and nonwetlands.

FACU – Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands, but occur more often (estimated probability >67 percent to 99 percent) in nonwetlands.

UPL – Plants that occur rarely (estimated probability < 1 percent) in wetlands, but occur almost always (estimated probability >99 percent) in nonwetlands under natural conditions.

The plant community data was summarized on the data forms provided in the Northcentral and Northeast Regional Supplement included in this report as Appendix B.

Step 6

Plant data from each observation point were tested against the hydrophytic vegetation criterion specified in the Corps Manual and Northcentral and Northeast Regional Supplement. The Northcentral and Northeast Regional Supplement identifies a four-tiered approach for making a determination of whether or not the hydrophytic vegetation criteria is met for a sample plot. Indicator 1 (Rapid Test for Hydrophytic Vegetation) was first applied to determine if all dominant species across all strata are rated OBL and/or FACW. If Indicator 1 did not meet the hydrophytic vegetation criteria, Indicator 2 was then applied (dominance test); if greater than 50% of all plant species across all strata were rated OBL, FACW, or FAC, the hydrophytic vegetation criteria was considered met. In rare cases, when Indicators 1 and 2 did not meet the hydrophytic vegetation criteria but soils and hydrology criteria were met, Indicators 3 (Prevalence Index) and 4 (Morphological Adaptations) were used to make a final determination. All observation points that met the hydrophytic vegetation criterion were considered potential wetlands. Soils were then characterized.

Step 7

The Corps Manual specifies that soils need not be characterized (and are assumed hydric soils) at sampling points meeting the hydrophytic vegetation criterion if: (i) all dominant plant species have an indicator status of OBL, or (ii) all dominant species have an indicator status of OBL and/or FACW, and the wetland boundary is abrupt (at least one dominant OBL species must be present). All observation points sampled during this field investigation were examined directly for soil and hydrologic characteristics.

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Step 8

At observation points requiring a soil evaluation, soil borings were performed by an EDI Soil Scientist using methods specified in the Northcentral and Northeast Regional Supplement. Soil pits were dug using a tile spade. Testpits were generally dug to a depth of 20 inches below ground surface. Soils were examined for any of the hydric soil indicators, as outlined in the Field Indicators of Hydric Soils in the United States. A determination was made as to whether or not the hydric soil criterion was met. Soils data was recorded on the data forms included in Appendix B of this report.

Step 9

EDI's Soil Scientist examined hydrologic indicators using methods specified by the Northcentral and Northeast Regional Supplement at each observation point. The wetland hydrology criterion was met if: (i) one or more primary field indicators was materially present, (ii) available hydrologic records provided necessary evidence, or (iii) two or more secondary indicators were present. Results were recorded on data forms taken from the Corps Manual and are included in this report as Appendix B.

Step 10

A wetland determination was made for every observation point. If a sample plot met the hydrophytic vegetation, hydric soil, and wetland hydrology criteria, the area was considered to be wetland.

Step 11

Based on the results of the transected data, wetland boundaries were established for each identified wetland using survey ribbon labeled "wetland delineation" and numbered consecutively along each wetland boundary. As outlined in the Corps Manual, the placement of flags was based on the limits of areas where all three parameters were met. Wetland flags were labeled W1-1 through W1-7.

STREAMS & DRAINAGES:

The federally regulated Ordinary High Water (OHW) mark of streams within the Project area were delineated utilizing the definitional criteria as presented in Title 33, Code of Federal Regulations, Part 328, and the USACE Regulatory Guidance Letter 05-05 – Guidance on Ordinary

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High Water Mark Identification. Each stream is categorized in regard to its flow regime as perennial, intermittent, or ephemeral, as defined by the USACE. The Ordinary High Water (OHW) mark for each stream is surveyed using the handheld Garmin GPSmap 62s. Each stream is assigned a letter designation, and survey points are numbered consecutively. Substrate characteristics and water depth are noted. Streams classified as AA, A, B, C, C(t), C(ts) and D in the State of New York are regulated by NYSDEC under Article 15 Use and Protection of Waters. Streams are given classifications which designate the level of protection afforded to each waterbody. Class AA and A are assigned to sources of drinking water. Class B streams are best suited for swimming and other contact recreation, but not drinking water. Class C streams identify waters that support fishing and non-contact activities. A classification with (t) designated a stream with the potential to support trout populations. A classification of (ts) identifies waters that may support trout spawning. Class D waters are the lowest classification, and are often highly imperiled.

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SECTION V: RESULTS AND CONCLUSIONS

Earth Dimensions, Inc. (EDI) has completed a wetland delineation study at the 1789 Dodge Road site located in the Town of Amherst, County of Erie, and State of New York. A field investigation was conducted by a Soil Scientist and a Wetland Ecologist from EDI. The wetland delineation study identified one (1) wetland totaling 0.054 ± acre present within the 1789 Dodge Road site. In addition, a 436.3 foot portion of a tributary to Ransom Creek/ Town of Amherst Ditch 26B, a Class C stream, was identified. No waterbodies were identified within the investigation area.

Figure 5 depicts the vegetative communities as they existed at the time of the investigation. The uplands within the investigation area were comprised of successional northern hardwoods and mown lawn communities. The wetland area was found to consist of a shallow emergent marsh community. The vegetative communities of the investigation area are described according to Ecological Communities of New York State (Edinger et al. 2014).

The successional northern hardwood community was dominated by the following species: box elder (*Acer negundo),* black willow (*Salix nigra),* common red raspberry (*Rubus idaeus),* multiflora rose (*Rosa multiflora),* dame's rocket (*Hesperis matronalis),* garlic mustard (*Aliaria petiolata),* white snake root (*Ageratina altissima),* orchard grass (*Dactylis glomerata),* enchanter's nightshade (*Circea lutetiana)* and sticky willy (*Galium aparine).*

The mown lawn (with some trees) community was dominated by the following species: red pine (*Pinus resinosa),* quaking aspen (*Populus tremuloides),* Kentucky bluegrass (*Poa pratensis*), pussy willow (*Salix discolor),* common dandelion (*Taraxacum officinale*), heal all (*Prunella vulgaris*), spreading bentgrass (*Agrostis stolonifera),* tall buttercup (*Ranunculus acris),* tatarian honeysuckle (*Lonicera tatarica*), red clover (*Trifolium pratensis),* ground ivy (*Glechoma hederacea)* and orchard grass (*Dactylis glomerata).*

Wetland W1 is a 0.054± acre shallow emergent marsh. No data was collected. It is EDI's professional opinion that Wetland W1/Stream 1 is Federally jurisdictional under the Navigable Waters Protection Rule since it is a perennial stream.

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Stream 1 is identified as a Tributary to Ransom Creek/ Town of Amherst Ditch 26B and flows north along the eastern limits of the site and ultimately empties into Ransom Creek. This intermittent channel is identified as a Class C stream by NYSDEC standards. The substrate consists of silt and gravel, with emergent vegetation along the banks. Within the project area, stream 1 is approximately 20-25 feet wide (30 feet at top of bank) with an average water depth of 6-24 inches.

A map which depicts the site boundaries and the location of all observation points established during the field survey is included as Figure 6 in Appendix A of this report. Data forms are included as Appendix B. Appendix C includes representative photographs of the project area. Appendix D notes the references used during the preparation of this report and during the field investigation. Appendix E provides the names, addresses and phone numbers of the survey personnel involved in the wetland delineation study.

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SECTION VI: RECOMMENDATIONS

One (1) wetland area and one (1) stream were identified during the course of a field investigation based upon the three parameter technique (vegetation, soils, and hydrology) outlined in the Corps Manual and Northcentral and Northeast Regional Supplement. It is EDI's professional opinion that wetland W1 is regulated by the USACE under Section 404 of the Clean Water Act. It is also EDI's opinion that wetland W1 is part of Freshwater Wetland CC-15 and would be regulated by NYSDEC under Article 24 of the New York Conservation Law. Stream 1 is regulated under both Section 404 and Article 15. USACE and NYSDEC approach their regulatory analyses by first considering avoidance of wetlands and minimization of wetland losses. EDI recommends the following:

(1) Submit this report to USACE and NYSDEC with a request for a wetland boundary confirmation and jurisdictional determination.

(2) If no impacts are proposed to federal or state regulated wetlands, state regulated 100-foot adjacent area or streams based on the outcome of the jurisdictional determination, it is the professional opinion of EDI that the project may proceed without the need for Section 404, Article 15 or Article 24 Permits.

(3) If any NYSDEC regulated upland adjacent area or federal or state jurisdictional wetland impacts are proposed, it is EDI's recommendation that a Joint Application for Permit and supporting documentation be submitted to the USACE and NYSDEC with a request for a Section 404 Permit, Section 401 Water Quality Certification, Article 15 Permit and/or an Article 24 Permit.

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1789 Dodge Road

Appendix A - Figures

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

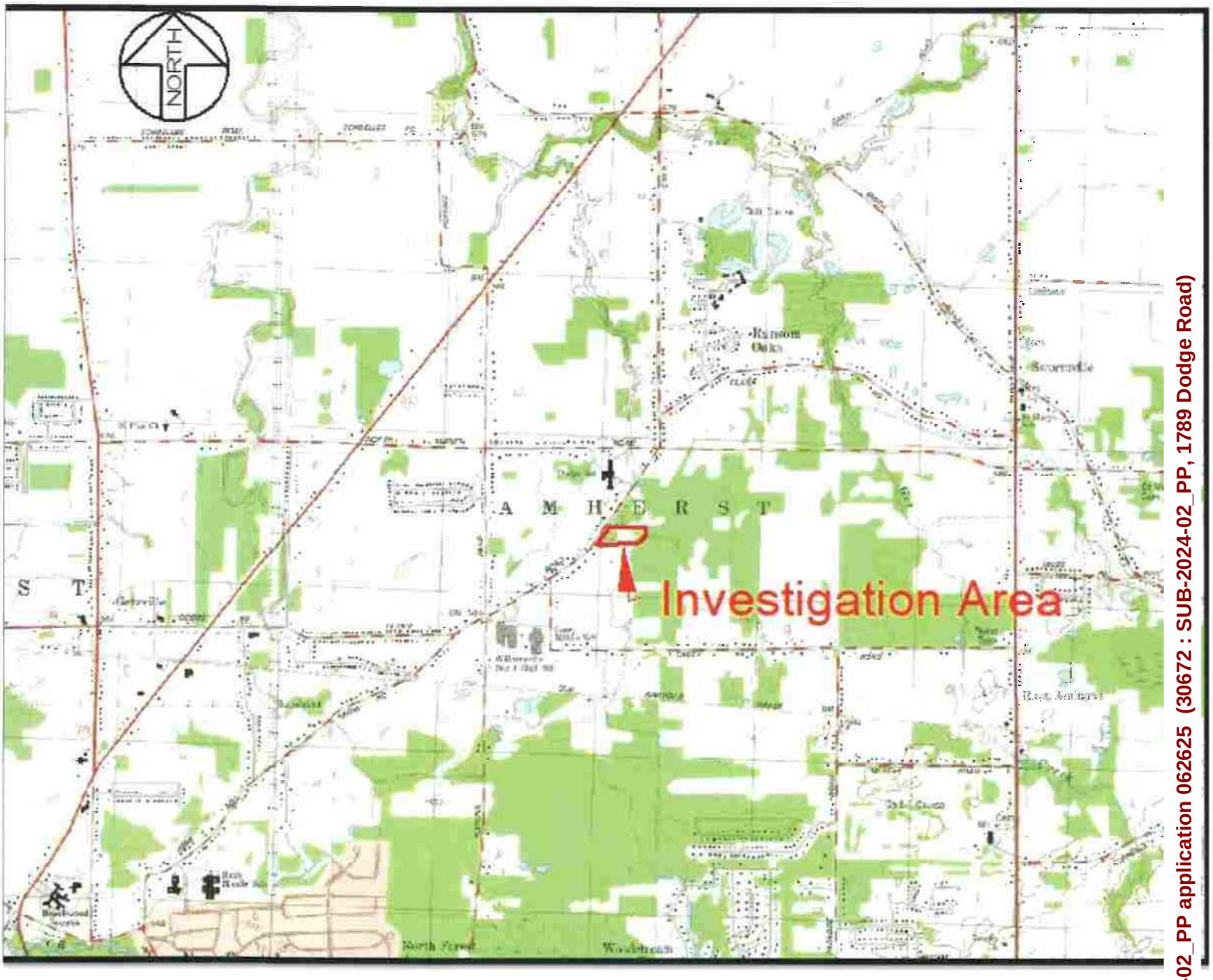


FIGURE 1: USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Clarence Center Quadrangle / 2002 DeLorme

1789 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



FIGURE 2: NATIONAL WETLANDS INVENTORY MAP

http://www.fws.gov/wetlands/data/mapper.HTML (Visited 12/21/20)

1789 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)
Packet Pg. 1282

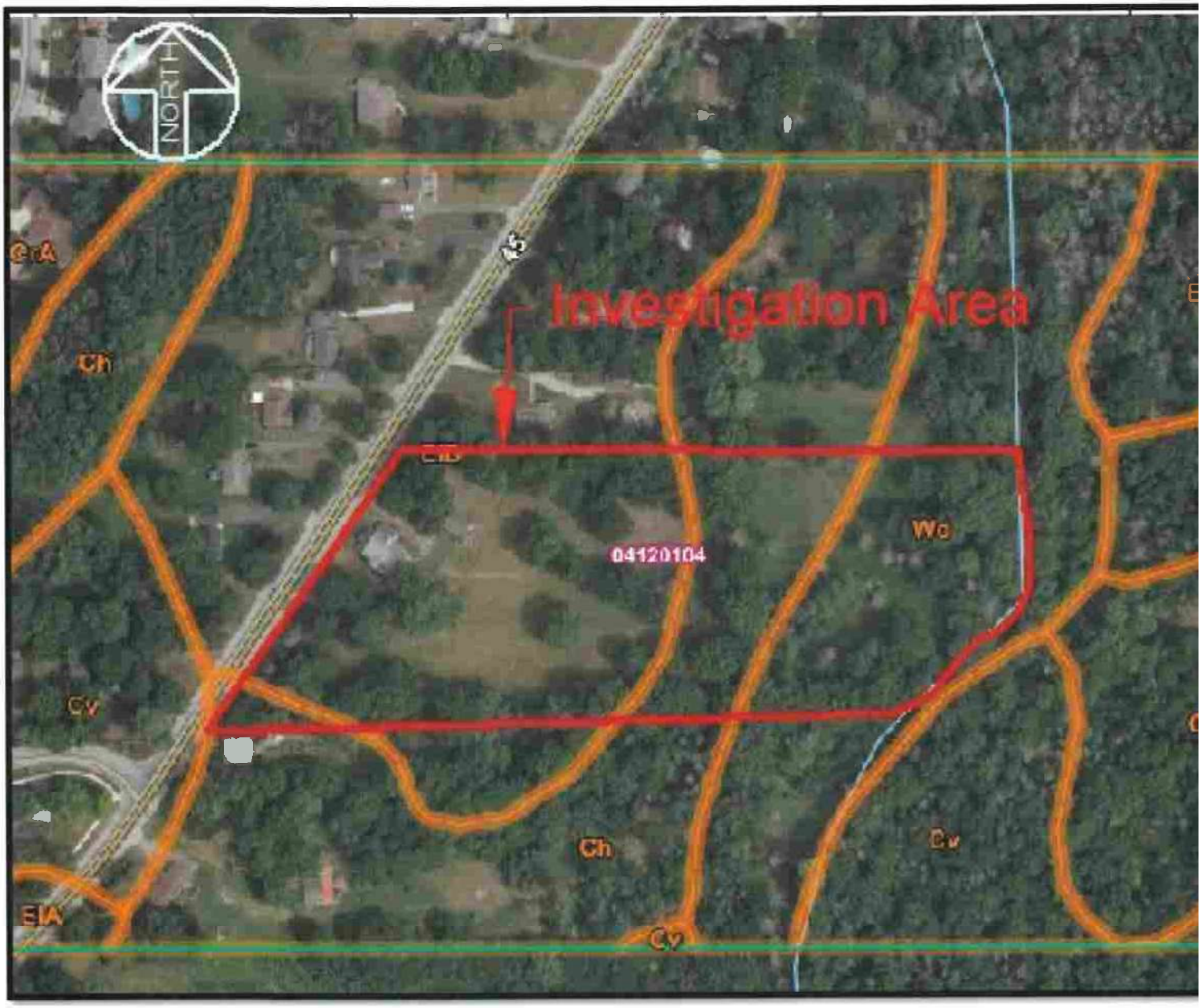


FIGURE 3: NRCS ERIE COUNTY SOIL SURVEY MAP

http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx (Visited 12/21/20)

1789 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

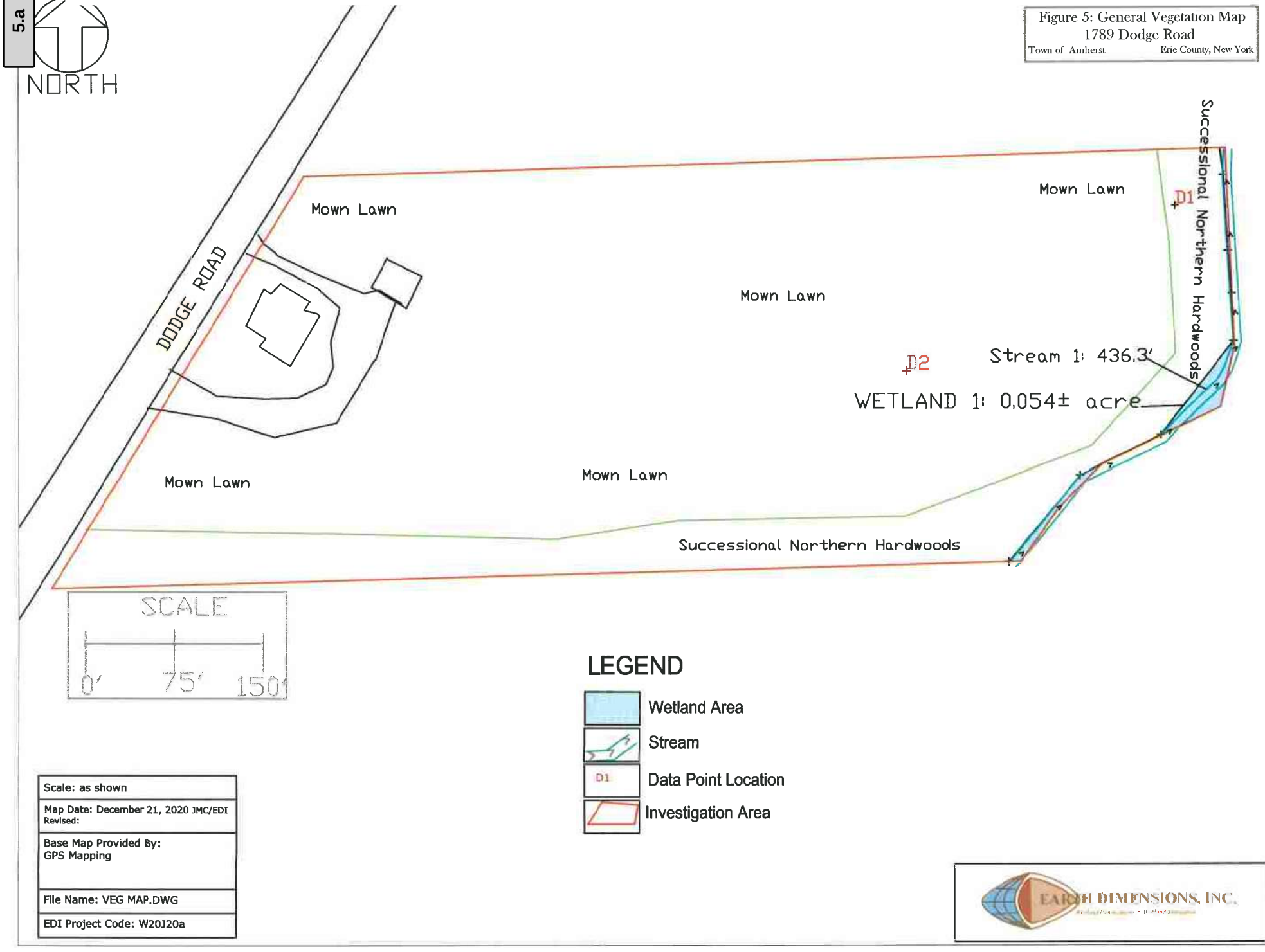


FIGURE 4: NYSDEC ENVIRONMENTAL RESOURCE MAPPER
http://www.dec.ny.gov/imsmaps/ERM/viewer.htm (Visited 12/21/20)
1789 Dodge Road
Town of Amherst, Erie County, New York

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Figure 5: General Vegetation Map
1789 Dodge Road
Town of Amherst Erie County, New York



Scale: as shown
Map Date: December 21, 2020 JMC/EDI Revised:
Base Map Provided By: GPS Mapping
File Name: VEG MAP.DWG
EDI Project Code: W20J20a

EARTH DIMENSIONS, INC.

Figure 6: Wetland Delineation Map
1789 Dodge Road
Town of Amherst Erie County, New York

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

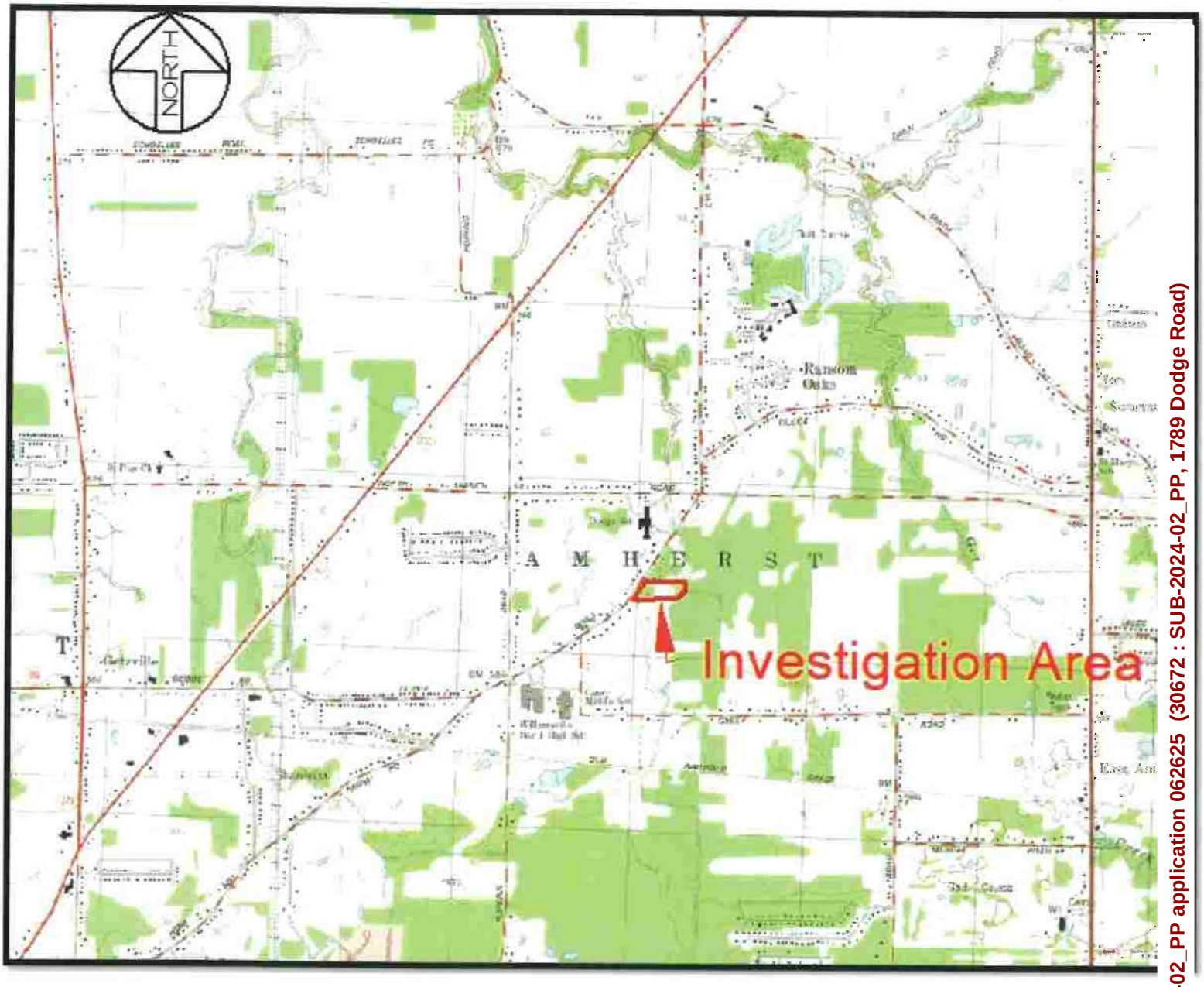


FIGURE 7: DRAINAGE MAP

Clarence Center Quadrangle / 2002 DeLorme

1789 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



FIGURE 8: SITE AERIAL PHOTOGRAPH

http://gis2.erie.gov/HTML5/ErieCountyNY/PublicLaunchPage.aspx (Visited 12/21/2020)

1789 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

1789 Dodge Road

Appendix B – Data Sheets

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 1789 Dodge Road Town/County: Amherst/Erie County Sampling Date: November 23, 2020

Applicant/Owner: Joe Rubino State: New York Sampling Point: D1

Investigator(s): Scott Livingstone & Jody Celeste Section, Township, Range: 42.00-1-45.2

Landform (hillslope, terrace, etc.): TERRACE Local relief (concave, convex, none): CONVEX Slope (%): 3

Subregion (LRR or MLRA) LRRL Lat: 43.02999 Long: 78.72573 Datum: NAD83

Soil Map Unit Name: WAYLAND SOILS COMPLEX, 0-3% NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No _____	**Is the Sampled Area within a Wetland?**	Yes _____ No X
Hydric Soil Present?	Yes _____ No _____		
Wetland Hydrology Present?	Yes _____ No _____	If yes, optional Wetland Site ID:	N/A

Remarks: (Explain alternative procedures here or in a separate report.)

UPLAND SUCCESSIONAL WOODS

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

VEGETATION : Use scientific names of plants.

Sampling Point: D1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix nigra	10	Y	FACW
2. Acer negundo	5	Y	FAC
3.			
4.			
5.			
6.			
7.			
	15 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. Rubus idaeus	10	Y	FACW
2. Rosa multiflora	5	Y	↓
3.			
4.			
5.			
6.			
7.			
	15 = Total Cover		

Herb Stratum (Plot size: 5')			
1. Hesperis matronalis	45	Y	FACU
2. Alliaria petiolata	35	Y	FACU
3. Galium aparine	5	N	FACU
4. Circaea lutetiana	5	N	NI
5. Dactylis glomerata	5	N	FACU
6. Ageratina altissima	5	N	NI
7.			
8.			
9.			
10.			
11.			
12.			
	100 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1. NA			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	5	x 3 =	15
FACU species	105	x 4 =	420
UPL species	0	x 5 =	0
Column Totals:	120 (A)		455 (B)

Prevalence Index = B/A = 3.79

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is < 3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: SUCCESSIONAL NORTHERN HARDWOODS

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 2 Direction of Photo NORTH

MANY DEAD ASH

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

SOIL

Sampling Point: D1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 4/2	100					S:L	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes _____ No X

Remarks:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Project Code: W20J20a

5.a

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 1789 Dodge Road Town/County: Amherst/Erie County Sampling Date: November 23, 2020

Applicant/Owner: Joe Rubino State: New York Sampling Point: AZ

Investigator(s): Scott Livingstone & Jody Celeste Section, Township, Range: 42.00-1-45.2

Landform (hillslope, terrace, etc.): LAKE Plain Local relief (concave, convex, none): CONVEX Slope (%): 2

Subregion (LRR or MLRA) LRRL Lat: 43.02962 Long: 78.72659 Datum: NAD83

Soil Map Unit Name: CHEEKTOWAGA FINE SANDY LOAM NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: N/A

Remarks: (Explain alternative procedures here or in a separate report.)

UPLAND LAWN WITH TREES

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ Marl Deposits (B15)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Moss Trim Lines (B16)
- __ Dry-Season W ater Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ Shallow Aquitard (D3)
- __ Microtopographic Relief (D4)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

VEGETATION : Use scientific names of plants.

Sampling Point: D2

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus resinosa	20	Y	FACU
2. Populus tremuloides	5	Y	↓
3.			
4.			
5.			
6.			
7.			
	25	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15')			
1. Lonicera tatarica	10	Y	FACU
2. Salix discolor	5	Y	FACW
3.			
4.			
5.			
6.			
7.			
	15	= Total Cover	

Herb Stratum (Plot size: 5')			
1. Prunella vulgaris	15	Y	FACU
2. Agrostis stolonifera	15	Y	FACW
3. Poa pratensis	45	Y	FACU
4. Ranunculus acris	5	N	FAC
5. Trifolium pratense	5	N	FACU
6. Taraxacum officinale	5	N	↓
7. Glechoma hederacea	5	N	
8. Dactylis glomerata	5	N	
9.			
10.			
11.			
12.			
	100	= Total Cover	

Woody Vine Stratum (Plot size: 30')			
1. NA			
2. ↓			
3.			
4.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 29 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	20	x 2 =	40
FAC species	5	x 3 =	15
FACU species	115	x 4 =	460
UPL species	0	x 5 =	0
Column Totals:	140 (A)		515 (B)

Prevalence Index = B/A = 3.67

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is < 3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

MOWN LAWN

Community Type: _____

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 3 Direction of Photo NORTH

MANY DEAD ASH NEAR BY

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

SOIL

Sampling Point: D2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR4/3	100					L	
7-16	10YR5/6	100					FSL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes _____ No X

Remarks:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

1789 Dodge Road

Appendix C - Site Photographs

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



Photo 1: Facing south. Depicts wetland W1/Stream W1 from the northeastern corner of the investigation area.



Photo 2: Facing north from data point D1. Depicts the successional northern hardwood community of data point D1.



Photo 3: Facing west from data point D2. Depicts the mown lawn community of data point D2.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

1789 Dodge Road

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix D - References

INFORMATIONAL REFERENCES
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Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

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1789 Dodge Road

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Appendix E - Wetland Investigation Personnel

Soils and Hydrology Sampling
Scott Livingstone, Senior Soil Scientist
Earth Dimensions, Inc.
1091 Jamison Road
Elma, New York 14059
(716) 655-1717

Vegetation Sampling
Jody Celeste, Ecologist
Earth Dimensions, Inc.
1091 Jamison Road
Elma, New York 14059
(716) 655-1717

Report Preparation
Jody Celeste, Ecologist
Earth Dimensions, Inc.
1091 Jamison Road
Elma, New York 14059
(716) 655-1717

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix L

Town of Amherst Stormwater Maintenance Agreement

Checklists

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Bioretetion Areas (F-5)



Description: Shallow stormwater basin or landscaped area which utilizes engineered soils and vegetation to capture and treat runoff. The practice is often located in parking lot islands, and can also be used to treat residential areas.

KEY CONSIDERATIONS

CONVEYANCE

- Provide overflow for the 10-year storm to the conveyance system.
- Conveyance to the system is typically overland flow delivered to the surface of the system, typically through curb cuts or over a concrete lip.

PRETREATMENT

- Pretreatment consists of a grass channel or grass filter strip, a gravel diaphragm, and a mulch layer, sized based on the methodologies described in Section 6.4.2.

TREATMENT

- Treatment area should have a four foot deep planting soil bed, a surface mulch layer, and a 6" ponding layer.
- Size the treatment area using equations provided in Chapter 6.

LANDSCAPING

- Detailed landscaping plan required.

MAINTENANCE

- Inspect and repair/replace treatment area components
- Stone drop (at least 6") provided at the inlet
- Remulch annually

STORMWATER MANAGEMENT SUITABILITY

- [X] Water Quality
- [ ] Channel Protection
- [ ] Overbank Flood Protection
- [ ] Extreme Flood Protection

Accepts Hotspot Runoff: *Yes*
(requires impermeable liner)

IMPLEMENTATION CONSIDERATIONS

- [M] Capital Cost
- [M] Maintenance Burden

Residential
Subdivision Use: *Yes*

High Density/Ultra-Urban: *Yes*

Drainage Area: *5 acres max.*

Soils: *Planting soils must meet specified criteria; No restrictions on surrounding soils*

Other Considerations:

- *Use of native plants is recommended*

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

	Key: L=Low **M**=Medium **H**=High **POLLUTANT REMOVAL** **G** Phosphorus **G** Nitrogen **G** Metals - Cadmium, Copper, Lead, and Zinc removal **F** Pathogens – Coliform, Streptococci, E.Coli removal **Key**: **G**=Good **F**=Fair **P**=Poor

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Bioretention Construction Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Pre-Construction		
Pre-construction meeting		
Runoff diverted		
Facility area cleared		
If designed as exfilter, soil testing for permeability		
Facility location staked out		
2. Excavation		
Size and location		
Lateral slopes completely level		
If designed as exfilter, ensure that excavation does not compact susoils.		
Longitudinal slopes within design range		

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
3. Structural Components		
Stone diaphragm installed correctly		
Outlets installed correctly		
Underdrain		
Pretreatment devices installed		
Soil bed composition and texture		
4. Vegetation		
Complies with planting specs		
Topsoil adequate in composition and placement		
Adequate erosion control measures in place		
5. Final Inspection		
Dimensions		
Proper stone diaphragm		
Proper outlet		
Soil/ filter bed permeability testing		
Effective stand of vegetation and stabilization		
Construction generated sediments removed		
Contributing watershed stabilized before flow is diverted to the practice		

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Comments:

Actions to be Taken:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Bioretention Operation, Maintenance and Management Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. Debris Cleanout (Monthly)		
Bioretention and contributing areas clean of debris		
No dumping of yard wastes into practice		
Litter (branches, etc.) have been removed		
2. Vegetation (Monthly)		
Plant height not less than design water depth		
Fertilized per specifications		
Plant composition according to approved plans		
No placement of inappropriate plants		
Grass height not greater than 6 inches		
No evidence of erosion		
3. Check Dams/Energy Dissipaters/Sumps (Annual, After Major Storms)		
No evidence of sediment buildup		

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
Sumps should not be more than 50% full of sediment		
No evidence of erosion at downstream toe of drop structure		
4. Dewatering (Monthly)		
Dewaters between storms		
No evidence of standing water		
5. Sediment Deposition (Annual)		
Swale clean of sediments		
Sediments should not be > 20% of swale design depth		
6. Outlet/Overflow Spillway (Annual, After Major Storms)		
Good condition, no need for repair		
No evidence of erosion		
No evidence of any blockages		
7. Integrity of Filter Bed (Annual)		
Filter bed has not been blocked or filled inappropriately		

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Comments:

Actions to be Taken:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stormwater Ponds



Description: Constructed stormwater retention basin that has a permanent pool (or micropool). Runoff from each rain event is detained and treated in the pool through settling and biological uptake mechanisms.

Design Options: Micropool Extended Detention (P-1), Wet Pond (P-2), Wet Extended Detention (P-3), Multiple Pond (P-4), Pocket Pond (P-5)

KEY CONSIDERATIONS

FEASIBILITY

- Contributing drainage area greater than 10 acres for P-1, 25 acres for P-2 to P-4.
- Follow DEC Guidelines for Design of Dams.
- Provide a minimum 2' separation from the groundwater in sole source aquifers.
- Do not locate ponds in jurisdictional wetlands.
- Avoid directing hotspot runoff to design P-5.

CONVEYANCE

- Forebay at each inlet, unless the inlet contributes less than 10% of the total inflow, 4' to 6' deep.
- Stabilize the channel below the pond to prevent erosion.
- Stilling basin at the outlet to reduce velocities.

PREATREATMENT

- Forebay volume at least 10% of the WQ_v
- Forebay shall be designed with non-erosive outlet conditions.
- Provide direct access to the forebay for maintenance equipment
- In sole source aquifers, provide 100% pretreatment for hotspot runoff.

TREATMENT

- Provide the water quality volume in a combination of permanent pool and extended detention (Table 6.1 in manual provides limitations on storage breakdown)
- Minimum length to width ratio of 1.5:1
- Minimum surface area to drainage area ratio of 1:100

LANDSCAPING

STORMWATER MANAGEMENT SUITABILITY

X	Water Quality
X	Channel Protection
X	Overbank Flood Protection
X	Extreme Flood Protection

Accepts Hotspot Runoff: *Yes*

(2 feet minimum separation distance required to water table)

FEASIBILITY CONSIDERATIONS

L	Cost
L	Maintenance Burden

Key: L=Low **M**=Moderate **H**=High

Residential Subdivision Use: Yes

High Density/Ultra-Urban: *No*

Soils: *Hydrologic group 'A' soils may require pond liner*

Hydrologic group 'D' soils may have compaction constraints

Other Considerations:

- *Thermal effects*

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

- Provide a minimum 10’ and preferably 15’ safety bench extending from the high water mark, with a maximum slope of 6%.
- Provide an aquatic bench extending 15 feet outward from the shoreline, and a maximum depth of 18" below normal water elevation.
- Develop a landscaping plan.
- Provide a 25’pond buffer.
- No woody vegetation within 15 feet of the toe of the embankment, or 25 feet from the principal spillway.

MAINTENANCE REQUIREMENTS

- Legally binding maintenance agreement
- Sediment removal from forebay every five to six years or when 50% full.
- Provide a maintenance easement and right-of-way.
- Removable trash rack on the principal spillway.
- Non-clogging low flow orifice
- Riser in the embankment.
- Pond drain required, capable of drawing down the pond in 24 hours.
- Notification required for pond drainage.
- Provide an adjustable gate valve on both the WQ_v-ED pipe, and the pond drain.
- Side Slopes less than 3:1, and terminate at a safety bench.
- Principal spillway shall not permit access by small children, and endwalls above pipes greater than 48” in diameter shall be fenced.

- *Outlet clogging*
- *Safety bench*

POLLUTANT REMOVAL

G	Phosphorus
G	Nitrogen
G	Metals - Cadmium, Copper,Lead, and Zinc removal
G	Pathogens Coliform, E.Coli, Streptococci removal

Key: G=Good **F**=Fair **P**=Poor

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stormwater/Wetland Pond Construction Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
Pre-Construction/Materials and Equipment		
Pre-construction meeting		
Pipe and appurtenances on-site prior to construction and dimensions checked		
1. Material (including protective coating, if specified)		
2. Diameter		
3. Dimensions of metal riser or pre-cast concrete outlet structure		
4. Required dimensions between water control structures (orifices, weirs, etc.) are in accordance with approved plans		
5. Barrel stub for prefabricated pipe structures at proper angle for design barrel slope		
6. Number and dimensions of prefabricated anti-seep collars		
7. Watertight connectors and gaskets		
8. Outlet drain valve		
Project benchmark near pond site		
Equipment for temporary de-watering		

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CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
2. Subgrade Preparation		
Area beneath embankment stripped of all vegetation, topsoil, and organic matter		
3. Pipe Spillway Installation		
Method of installation detailed on plans		
A. Bed preparation		
Installation trench excavated with specified side slopes		
Stable, uniform, dry subgrade of relatively impervious material (If subgrade is wet, contractor shall have defined steps before proceeding with installation)		
Invert at proper elevation and grade		
B. Pipe placement		
Metal / plastic pipe		
1. Watertight connectors and gaskets properly installed		
2. Anti-seep collars properly spaced and having watertight connections to pipe		
3. Backfill placed and tamped by hand under “haunches” of pipe		
4. Remaining backfill placed in max. 8 inch lifts using small power tamping equipment until 2 feet cover over pipe is reached		

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CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
3. Pipe Spillway Installation		
Concrete pipe		
1. Pipe set on blocks or concrete slab for pouring of low cradle		
2. Pipe installed with rubber gasket joints with no spalling in gasket interface area		
3. Excavation for lower half of anti-seep collar(s) with reinforcing steel set		
4. Entire area where anti-seep collar(s) will come in contact with pipe coated with mastic or other approved waterproof sealant		
5. Low cradle and bottom half of anti-seep collar installed as monolithic pour and of an approved mix		
6. Upper half of anti-seep collar(s) formed with reinforcing steel set		
7. Concrete for collar of an approved mix and vibrated into place (protected from freezing while curing, if necessary)		
8. Forms stripped and collar inspected for honeycomb prior to backfilling. Parge if necessary.		
C. Backfilling		
Fill placed in maximum 8 inch lifts		
Backfill taken minimum 2 feet above top of anti-seep collar elevation before traversing with heavy equipment		

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CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
4. Riser / Outlet Structure Installation		
Riser located within embankment		
A. Metal riser		
Riser base excavated or formed on stable subgrade to design dimensions		
Set on blocks to design elevations and plumbed		
Reinforcing bars placed at right angles and projecting into sides of riser		
Concrete poured so as to fill inside of riser to invert of barrel		
B. Pre-cast concrete structure		
Dry and stable subgrade		
Riser base set to design elevation		
If more than one section, no spalling in gasket interface area; gasket or approved caulking material placed securely		
Watertight and structurally sound collar or gasket joint where structure connects to pipe spillway		
C. Poured concrete structure		
Footing excavated or formed on stable subgrade, to design dimensions with reinforcing steel set		
Structure formed to design dimensions, with reinforcing steel set as per plan		
Concrete of an approved mix and vibrated into place (protected from freezing while curing, if necessary)		
Forms stripped & inspected for “honeycomb” prior to backfilling; parge if necessary		

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CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
5. Embankment Construction		
Fill material		
Compaction		
Embankment		
1. Fill placed in specified lifts and compacted with appropriate equipment		
2. Constructed to design cross-section, side slopes and top width		
3. Constructed to design elevation plus allowance for settlement		
6. Impounded Area Construction		
Excavated / graded to design contours and side slopes		
Inlet pipes have adequate outfall protection		
Forebay(s)		
Pond benches		
7. Earth Emergency Spillway Construction		
Spillway located in cut or structurally stabilized with riprap, gabions, concrete, etc.		
Excavated to proper cross-section, side slopes and bottom width		
Entrance channel, crest, and exit channel constructed to design grades and elevations		

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CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
8. Outlet Protection		
A. End section		
Securely in place and properly backfilled		
B. Endwall		
Footing excavated or formed on stable subgrade, to design dimensions and reinforcing steel set, if specified		
Endwall formed to design dimensions with reinforcing steel set as per plan		
Concrete of an approved mix and vibrated into place (protected from freezing, if necessary)		
Forms stripped and structure inspected for "honeycomb" prior to backfilling; parge if necessary		
C. Riprap apron / channel		
Apron / channel excavated to design cross-section with proper transition to existing ground		
Filter fabric in place		
Stone sized as per plan and uniformly place at the thickness specified		
9. Vegetative Stabilization		
Approved seed mixture or sod		
Proper surface preparation and required soil amendments		
Excelsior mat or other stabilization, as per plan		

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CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
10. Miscellaneous		
Drain for ponds having a permanent pool		
Trash rack / anti-vortex device secured to outlet structure		
Trash protection for low flow pipes, orifices, etc.		
Fencing (when required)		
Access road		
Set aside for clean-out maintenance		
11. Stormwater Wetlands		
Adequate water balance		
Variety of depth zones present		
Approved pondscaping plan in place Reinforcement budget for additional plantings		
Plants and materials ordered 6 months prior to construction		
Construction planned to allow for adequate planting and establishment of plant community (April-June planting window)		
Wetland buffer area preserved to maximum extent possible		

Comments:

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Actions to be Taken:

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stormwater Pond/Wetland Operation, Maintenance and Management Inspection Checklist

Project _____
Location: _____
Site Status: _____

Date: _____
Time: _____

Inspector: _____

Maintenance Item	Satisfactory/ Unsatisfactory	Comments
1. Embankment and emergency spillway (Annual, After Major Storms)		
1. Vegetation and ground cover adequate		
2. Embankment erosion		
3. Animal burrows		
4. Unauthorized planting		
5. Cracking, bulging, or sliding of dam		
a. Upstream face		
b. Downstream face		
c. At or beyond toe		
downstream		
upstream		
d. Emergency spillway		
6.Pond, toe & chimney drains clear and functioning		
7.Seeps/leaks on downstream face		
8.Slope protection or riprap failure		
9. Vertical/horizontal alignment of top of dam "As-Built"		

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Maintenance Item	Satisfactory/ Unsatisfactory	Comments
10. Emergency spillway clear of obstructions and debris		
11. Other (specify)		
2. Riser and principal spillway (Annual)		
Type: Reinforced concrete _____ Corrugated pipe _____ Masonry _____ 1. Low flow orifice obstructed		
2. Low flow trash rack. a. Debris removal necessary		
b. Corrosion control		
3. Weir trash rack maintenance a. Debris removal necessary		
b. corrosion control		
4. Excessive sediment accumulation insider riser		
5. Concrete/masonry condition riser and barrels a. cracks or displacement		
b. Minor spalling (<1")		
c. Major spalling (rebars exposed)		
d. Joint failures		
e. Water tightness		
6. Metal pipe condition		
7. Control valve a. Operational/exercised		
b. Chained and locked		
8. Pond drain valve a. Operational/exercised		
b. Chained and locked		
9. Outfall channels functioning		
10. Other (specify)		

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Maintenance Item	Satisfactory/ Unsatisfactory	Comments
3. Permanent Pool (Wet Ponds) (monthly)		
1. Undesirable vegetative growth		
2. Floating or floatable debris removal required		
3. Visible pollution		
4. Shoreline problem		
5. Other (specify)		
4. Sediment Forebays		
1.Sedimentation noted		
2. Sediment cleanout when depth < 50% design depth		
5. Dry Pond Areas		
1. Vegetation adequate		
2. Undesirable vegetative growth		
3. Undesirable woody vegetation		
4. Low flow channels clear of obstructions		
5. Standing water or wet spots		
6. Sediment and / or trash accumulation		
7. Other (specify)		
6. Condition of Outfalls (Annual , After Major Storms)		
1. Riprap failures		
2. Slope erosion		
3. Storm drain pipes		
4.Endwalls / Headwalls		
5. Other (specify)		
7. Other (Monthly)		
1. Encroachment on pond, wetland or easement area		

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Maintenance Item	Satisfactory/ Unsatisfactory	Comments
2. Complaints from residents		
3.Aesthetics a. Grass growing required		
b. Graffiti removal needed		
c. Other (specify)		
4. Conditions of maintenance access routes.		
5. Signs of hydrocarbon build-up		
6. Any public hazards (specify)		
8. Wetland Vegetation (Annual)		
1. Vegetation healthy and growing Wetland maintaining 50% surface area coverage of wetland plants after the second growing season. (If unsatisfactory, reinforcement plantings needed)		
2. Dominant wetland plants: Survival of desired wetland plant species Distribution according to landscaping plan?		
3. Evidence of invasive species		
4. Maintenance of adequate water depths for desired wetland plant species		
5. Harvesting of emergent plantings needed		
6. Have sediment accumulations reduced pool volume significantly or are plants “choked” with sediment		
7. Eutrophication level of the wetland.		
8. Other (specify)		

Comments:

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Actions to be Taken:

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STORMWATER CONTROL FACILITY
MAINTENANCE AGREEMENT

Stormwater Management Facility Inspection Procedures

Post Construction Operation & Maintenance:

1. On a quarterly basis, perform the following:
   a. Inspect catch basins, manholes and storm piping for debris and accumulation of sediment.
   b. Remove and properly dispose of any collected debris from structures.
   c. Flush storm sewers with water, if necessary, to remove accumulated sediment.
   d. Check all rip rap stone for erosion and re-stone, if necessary, to prevent further erosion.
   e. Inspect grass and landscaped areas for un-vegetated areas or areas with less than 80% healthy stand of grass and reseed and mulch as necessary. Water areas daily if reseeded between July and August.

2. Maintain all lawn areas by regular mowing, including the grass slopes of the detention basins. Any eroded areas shall be re-graded, seeded and mulched immediately.

3. Inspect detention basins for debris and sediment accumulation two times per year (spring and fall). Debris and sediment accumulation should be removed from the basin every five to six years or with sediment buildup over 6" in depth. Remove and properly dispose of any collected debris and sediment.

4. The bioretention area shall be maintained as required in the NYSDEC Stormwater Management Design Manual and as a component of the property landscaping and shall be maintained on a regular basis. Sediment must be removed when accumulation depth exceeds on inch. Any erosion of the bioretention berm must be repaired as soon as possible to prevent diversion around the bioretention area.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix M

NYDEC Letter

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

CARMINA WOOD DESIGN

ENGINEER'S REPORT

for

Single Family Subdivision

1789 Dodge Road
Town of Amherst, Erie County, New York State

Prepared for

Joesph Rubino

5500 Main Street, Suite 343
Williamsville, New York, 14221

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

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February 2025



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Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

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Section 2 - Water Service
Section 3 - Sanitary Sewer Service
Section 4 - Storm Sewer Service

Attachments

Appendix A Sanitary Sewer and Water Demand Calculations

- Downstream Sewer Capacity Analysis
- Water Demand Calculations

Appendix B Storm System Drainage Calculations

- Existing Runoff
- Proposed Runoff
  - Green Infrastructure & Water Quality Calculations
- Storm Sewer Calculations

Appendix C Earthwork Calculations

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Section 1 - Location & Description

This project is a development of a 6.71 acre site located on the east side of Dodge Road in the Town of Amherst for a single family subdivision. Construction will consist of a proposed public roadway, public storm sewer, sanitary sewer and water mains, lighting and landscaping improvements. Seventeen (17) lots are proposed for the roadway extension, fourteen (14) of which will be building lots. One lot will be used for stormwater management areas and two lots will be permeant open space areas. Currently the site consists of a single-family house but the majority of the site is undeveloped woodlands, wetlands and open grass areas. Approximately 0.12 acres of the site are designated as Federal wetlands. The proposed site development area to be disturbed for this project is approximately 5.61 acres when construction is completed.

Section 2 - Water Service

An existing 8" public PVC water main is located along the west side of Dodge Road that will be the source of water for this project. Approximately 637 LF of new 8" AWWA C-900 PVC water main will be installed along the public road. New ¾" Type 'k" copper services will tap the new 8" main and be installed for building each lot. Two (2) new public fire hydrants will be installed with maximum spacing not to exceed 400 feet.

Pipe material for the new main, hydrant installation and all fittings, valves, etc. will be in accordance with Erie County Water Authority (ECWA) standards. Per hydrant flow test provided by ECWA, the existing static pressure in the 8" PVC water main on Dodge Road Road was approximately 96 psi and the residual pressure was 84 psi. The proposed main, hydrant branches and hydrants will be installed and tested in accordance with ECWA Standard Specifications. Inspection and certification of the installation and testing of the water samples will be done by the ECWA. There are no conflicts with existing utilities in the area, the land is currently vacant. The proposed water main will maintain physical separation from other utilities as specified per Ten States Standards.

Domestic Summary:

Peak Operating Demand:	51 gpm
Water Main:	8" PVC on Dodge Road
Static Pressure:	96 psi (per ECWA)

See attached water demand calculations in Appendix A for additional information.

Section 3 - Sanitary Sewer Service

Proposed is 557 lf of 8" SDR-35 PVC public sanitary sewer, connected to the existing 8" sanitary sewer main along the east side of Dodge Road. The proposed sewer extension will run along the south side of the proposed roadway extension. Each proposed building lot will wye connect to the proposed 8" sanitary sewer via a 6" SDR-35 PVC sanitary lateral at 2.0% minimum slope.

Design Parameters

4-bedroom house: 440 gal/day/house x 17 houses = 7,480 gpd

7,480 gpd * 4.28 = 31,985 gpd *use peaking factor of 4.28

The hydraulic loading rate is per "Design Standards for Intermediate Sized Wastewater Treatment Systems" 2014, NYSDEC.

Downstream sewer capacity analysis is included within the Appendix of this report.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Section 4 - Storm Sewer Service

The site drains from the west to the east and south. A portion of the site drains to Dodge Road on the west side of the property. The rest of the site drains to the south side of the property or to an existing federal wetland on the east side of the property.

The proposed onsite storm sewer system for this development project consists of smooth interior and perforated HDPE pipes connected by a series of catch basins. The storm water management system for this project consists of one bioretention areas and one pond that has an outlet control structure prior to discharge. The ponds drain to the existing wetland. The bioretention areas proposed on site are designed to provide 100% of the required Runoff Reduction volume (RRv) for the site. The soils in the vicinity of the bioretention area are mainly USDA hydrologic group 'D' and therefore the system will be installed with underdrains per NYSDEC requirements. The bioretention areas will consist of 8" perforated HDPE underdrains in 12" of drainage gravel, followed by filter fabric and then finally 30" minimum of planting soil. Overflow catch basins will be installed to allow 6" maximum temporary ponding for RRv treatment. The proposed detention pond outlet control pipe is designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates for pre-development drainage area which drains to the existing stream.

Runoff reduction volume (RRv), water quality volume (WQv) and stormwater volume attenuation for the site is designed in accordance with Chapter 4 of the NYSDEC Stormwater design manual. The bioretention areas will be provided as a "green infrastructure" practice to provide runoff reduction to meet the Chapter 4 requirements for the currently undeveloped areas. Runoff from the site was looked at as a whole for the calculation of volume attenuation requirements. The amount of impervious cover post-development is 1.57 acres. The proposed detention ponds are designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates.

Town of Amherst Requirement:
The Town of Amherst requires that the 25-year proposed storm event be attenuated with detention and that the outlet be restricted to the 10-year existing storm event. This volume of 16,041 cf is accommodated in the detention basin at elevation 583.35. At this elevation, the outlet discharge will be restricted to 6.29 cfs from the pond, which is less than the existing 10-year peak runoff outflow of 7.47 cfs of the overall site.

Detention Pond Summary:

Top of basin elevation = 585.00
Bottom of basin elevation = 578.50
Max. pond storage volume = 20,698 cf @ 583.86

Water Quality Summary:
WQv req'd = 7,594 cf (0.174 ac-ft)
RRv min. req'd = 4,182 cf (0.096 ac-ft)
RRv provided - bioretention area = 4,224 cf (0.097 ac-ft)
WQv provided – bioretention area = 3,370 cf (0.077 ac-ft)
Total RRv + WQv provided = 4,224 cf + 3,370 cf = 7,594 cf (0.174 ac-ft)

Bioretention: 100% of minimum post-development Runoff Reduction volume (RRv)
Area: 4,400 sf
Bottom Elevation: 582.50

Detention: Comparison of the existing 1-year vs. the proposed 1-year runoff
Comparison of the existing 10-year vs. the proposed 10-year runoff
Comparison of the existing 10-year vs. the proposed 25-year runoff

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Comparison of the existing 100-year vs. the proposed 100-year runoff

Runoff Summary

Drainage Area

Event	Ex. Runoff (cfs)	Pro. Runoff (cfs)*	Result (cfs)
1-year	2.32	2.29	-0.03
10-year	7.47	3.99	-3.48
25-year	10.75	6.29	-4.46
100-year	17.66	13.15	-4.51

*See attached storm drainage calculations and drainage report in Appendix B for additional information.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix A

Sanitary Sewer and Water Demand Calculations

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Downstream Sewer Capacity Analysis

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Carmina·Wood·Morris DPC
487 Main Street Suite 600 Buffalo, New York 14203 P: 716.842.3165 F: 716.842.0263 W: cwm-ae.com



Single Family Subdivision

1789 Dodge Road, Amherst New York

Downstream Sewer Capacity Analysis Report

Architecture Engineering Interior Design
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Project Description

This project is a development of a 6.7 acre +/- site located at 1789 Dodge Road in the Town of Amherst. Construction will consist of extension and completion of a proposed local street. The property will be subdivided to accommodate for 17 single family home lots to be built at a later date. The site will also include the construction of on-site utility, lighting and landscaping improvements.

The proposed sewer for this project will tie into the existing 8" sewer main along Dodge Road. Sewage will then be conveyed northeast and then west through the 24" and 36" French Trunk Sewer. Flows are then ultimately conveyed north through the 48" Trunk Sewer to the Town of Amherst Wastewater Treatment Facility #16.

The sewer will be a minimum of 8" diameter in size, and will be publicly owned by the Town of Amherst.

Node 1 – 1875 Dodge Road (8"):

Existing Peak Flow measured (wet weather event)	=	0.013 cfs (.007 mgd)*
Proposed 1789 Dodge Rd Subdivision Peak Flow	=	0.049 cfs **
Proposed Peak Flow	=	0.062 cfs
Existing Peak Flow measured (dry weather event)	=	0.253 cfs (.136 mgd)*
Proposed 1789 Dodge Rd Peak Flow	=	0.049 cfs **
Proposed Peak Flow	=	0.302 cfs

Theoretical capacity of existing 8" VTP pipe @ 0.3% = 0.614 cfs

Conclusion: The proposed peak flow is less than the capacity of the 8" VTP pipe, therefore there is sufficient capacity. At no time during the monitoring did the flow depth exceed the pipe diameter at Node 1 of the downstream monitoring points during the rain events monitored

Notes:

Pipe slopes, sizes and materials provided by Town of Amherst Engineering Department Sewer Maintenance Division

* Converted from measurements in TECSmith report dated 4/20/21

** See Sanitary Sewage Demand Calculations

Node 2 – North French Rd (24")

Existing Peak Flow measured (wet weather event)	=	9.582 cfs (5.155 mgd)*
Proposed 1789 Dodge Rd Subdivision Peak Flow	=	0.049 cfs **
Proposed Peak Flow	=	9.631 cfs

Capacity of existing 24" RCP pipe = 7.714 cfs (4.15 mgd)

Conclusion: Current flows the day following the 1.11" rainfall event exceeded the capacity of the existing 24" sewer pipe, but at no time during the monitoring period did the flow at any point slow or stall which would have caused a backup or flooding at the manhole. In addition, Sanitary Sewer Overflow (SSD) did not occur. I/I mitigation shall be required for the contribution proposed for this project.

Node 3 – North French near Millersport (24")

Existing Peak Flow measured (wet weather event)	=	9.439 cfs (5.078 mgd)*
Proposed 1789 Dodge Rd Subdivision Peak Flow	=	0.049 cfs **
Proposed Peak Flow	=	9.488 cfs

Capacity of existing 24" RCP pipe = 7.714 cfs (4.15 mgd)

Conclusion: Current flows the day following the 0.7" rainfall event exceeded the capacity of the existing 24" sewer pipe, but at no time during the monitoring period did the flow at any point slow or stall which would have caused a backup or flooding at the manhole. In addition, Sanitary Sewer Overflow (SSD) did not occur. I/I mitigation shall be required for the contribution proposed for this project.

Notes:

Pipe slopes, sizes and materials provided by Town of Amherst Engineering Department Sewer Maintenance Division

* Converted from measurements in TECSmith report dated 4/20/21

** See Sanitary Sewage Demand Calculations

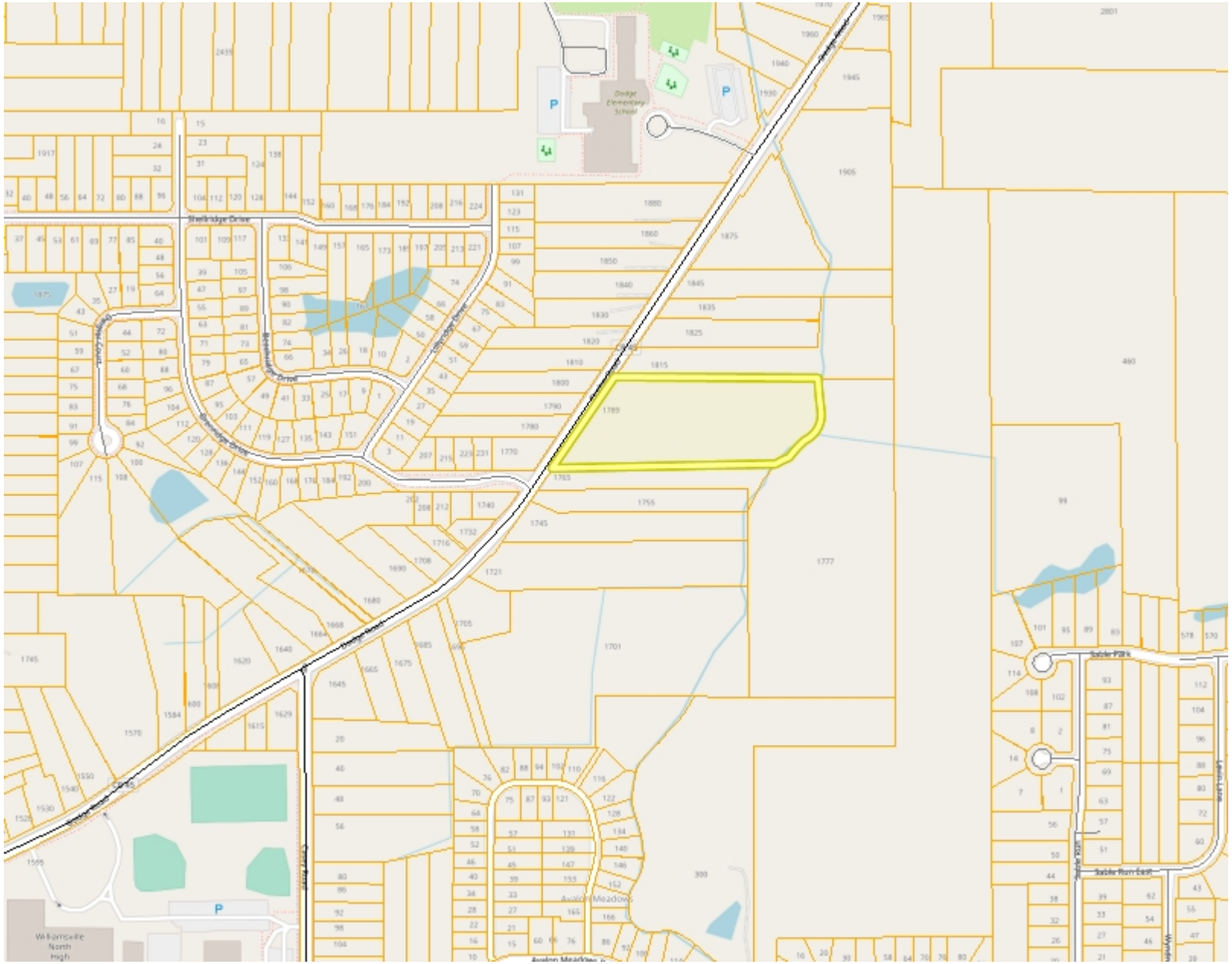
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Location Map

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Erie County On-Line Mapping Application





Legend

- Parcels
- Streets and Highways
  - Interstate
  - Primary State Road
  - Secondary State Road
  - County Road
  - Local Road

0 0.14 0.3 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
THIS MAP IS NOT TO BE USED FOR NAVIGATION

ERIE COUNTY
DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF GIS

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

1: 9,028

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Sanitary Demand Calculations

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

CARMINA WOOD MORRIS, D.P.C.
487 MAIN STREET, SUITE 500
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 20.247 Date: 4/21/2021
Project Name: Single Family Subdivision
Project Address: 1789 Dodge Road Amherst, NY
Subject: Sanitary Sewage Calculations
Sheet: 1 of 1

Sanitary Sewage Demand Calculations:

1789 Dodge Road

440 gal/d/unit x 17 unit = 7,480 gpd *use 440 gallons per day per 4-bedroom house

Total Site Sanitary Demand: = 7,480 gpd Average

* The hydraulic loading rate is per "Design Standards for Intermediate Sized Wastewater Treatment Systems" 2014, NYSDEC.

Find Peak Sanitary Demand:

Peaking Factor based on Population:
Total demand: 7,480 gpd / 100 gpcd = 75 per capita

Population (P) = 75 people

Peaking Factor : $(18 + \sqrt{P}) / (4 + \sqrt{P})$ where P is in thousands

Peaking Factor = 4.28

Peak Sanitary Demand = 7,480 x 4.28 = 31,985 gpd
= 0.032 MGD
= 0.049 cfs

Required Infiltration and Inflow Mitigation:

Peak Sanitary Flow = 31,985 gpd = 22.2 gpm

4:1 offset flow per NYSDEC requirements = 22.2 x 4 = 88.8 gpm req'd

Mitigation Credit = $250 / gpm

Mitigation Agreement Amount = $22,211.48

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

TECSmith Monitoring Report

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Date	Node 1			Node 2			Node 3			Rain₂
	1875 Dodge Rd (8")			North French 24" (24")			N French EO Millersport (25")			
	FLOW (GAL x 1,000)	PEAK FLOW (MGD)	PEAK LEVEL (IN)	FLOW (GAL x 1,000)	PEAK FLOW (MDG)	PEAK LEVEL (IN)	FLOW (GAL x 1,000)	PEAK FLOW (MDG)	PEAK LEVEL (IN)	(inches)
3/15/2021	1.558	0.007	1.021	901.924	2.509	13.017	2451.565	3.138	16.050	***0***
3/16/2021	5.814	0.136	1.429	1851.456	2.431	12.927	2362.168	2.987	15.828	***0***
3/17/2021	3.897	0.117	1.276	1833.935	2.354	12.793	2359.427	3.078	15.946	***0***
3/18/2021	3.526	0.007	0.965	1810.464	2.378	12.837	2259.529	3.071	15.681	***0***
3/19/2021	2.127	0.006	0.722	1777.378	2.272	12.485	2186.568	2.873	15.229	***0***
3/20/2021	2.908	0.006	0.733	1835.479	2.712	13.695	2278.543	3.111	16.386	***0***
3/21/2021	1.471	0.005	0.891	1782.700	2.522	13.292	2306.858	3.161	16.261	***0***
3/22/2021	2.153	0.010	0.804	1756.434	2.338	12.610	2220.316	3.332	15.590	***0***
3/23/2021	1.794	0.012	0.909	1750.216	2.354	12.508	2165.263	2.942	15.598	***0***
3/24/2021	1.334	0.010	0.803	1800.258	2.322	12.720	2209.647	2.930	15.544	***0.04***
3/25/2021	2.060	0.006	0.854	1818.708	2.327	12.425	2191.851	2.903	15.835	***0.1***
3/26/2021	3.490	0.007	0.854	3394.673	5.155	32.200	3430.052	4.993	21.358	***1.11***
3/27/2021	2.520	0.008	0.748	2789.517	3.572	15.870	3247.935	4.098	19.565	***0.01***
3/28/2021	2.553	0.008	0.911	3084.039	4.855	24.342	3297.641	4.788	20.613	***0.38***
3/29/2021	1.726	0.006	0.907	1755.045	3.449	16.146	3240.507	4.662	19.849	***0***
3/30/2021	2.827	0.008	0.856	---	---	---	2916.616	3.723	17.876	***0***
3/31/2021	2.680	0.005	0.742	---	---	---	2702.193	3.508	17.153	***0.15***
4/1/2021	2.651	0.005	0.843	---	---	---	2714.987	3.372	16.766	***0.01***
4/2/2021	2.859	0.005	0.796	---	---	---	2505.293	3.203	16.568	***0***
4/3/2021	2.990	0.007	0.938	---	---	---	2525.733	3.514	16.884	***0***
4/4/2021	2.417	0.009	1.135	---	---	---	2373.848	3.533	16.405	***0***
4/5/2021	2.483	0.007	0.912	---	---	---	2266.588	3.080	15.777	***0.03***
4/6/2021	2.944	0.006	0.910	825.215	2.343	12.291	2252.135	2.939	15.594	***0***
4/7/2021	2.503	0.007	0.950	1846.587	2.402	12.565	2309.849	3.101	15.697	***0.02***
4/8/2021	2.082	0.008	1.024	1828.950	2.483	12.622	2261.713	3.460	15.656	***0***
4/9/2021	2.374	0.010	1.239	1831.352	2.368	12.721	2193.455	3.117	15.464	***0.08***
4/10/2021	2.260	0.008	1.127	1858.770	2.612	13.316	2316.192	3.504	16.334	***0***
4/11/2021	2.859	0.007	1.008	3042.992	5.147	30.730	3249.342	5.078	22.008	***0.7***
4/12/2021	2.895	0.015	0.889	2708.829	3.298	15.235	3106.551	4.305	19.509	***0.05***
4/13/2021	2.801	0.012	0.802	2463.126	3.020	14.069	2867.249	4.024	17.279	***0***
4/14/2021	2.756	0.008	0.821	2271.773	2.756	13.315	2145.403	3.626	16.706	***0***
4/15/2021	3.060	0.013	1.094	2356.976	2.957	14.016	2774.988	3.769	17.125	***0.26***
4/16/2021	3.263	0.008	1.131	2855.766	3.437	15.096	3174.564	3.761	17.887	***0.11***
4/17/2021	2.860	0.007	1.015	2575.069	3.305	14.893	3010.105	3.907	17.949	***0***
4/18/2021	3.009	0.009	0.913	2359.773	3.104	14.318	2819.097	3.644	17.325	***0***
4/19/2021	2.925	0.008	0.910	2144.199	2.646	12.962	2572.211	3.217	16.430	***0.05***
4/20/2021	1.089	0.007	0.914	928.283	2.885	13.472	1081.133	3.048	15.628	***0.2***
---	---	---	---	---	---	---	---	---	---	***3.3***

Yellow Highlights are Wet Weather Days

	MGD	CFS
Wet	0.007	0.013
Dry	0.136	0.253

MGD	CFS
5.155	9.582

MGD	CFS
5.078	9.439

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

TECsmith

TECSMITH, Inc.
PO Box 383
Elma, New York 14059-0383
Tel: 716-462-0382
Fax: 716-687-1418

Date: April 20, 2021

SANITARY SEWER FLOW CAPACITY STUDY – Summary Review

Prepared For: 1789 Dodge Road Capacity Analysis

Christopher Wood
487 Main Street, Suite 600
Buffalo, New York 14203

Project Name: 1789 Dodge Road Capacity Analysis

Flow Monitoring Period: March 1, 2021 to April 13, 2021

Rain Events (> 0.5-inches) Monitored: March 26, (1.11”), and April 11 (0.70”)

Number of Monitoring Nodes: Three (3) downstream manholes

Node Locations and Descriptions:

- Node 1 1875 Dodge Rd (8")
- Node 2 North French 24" (24")
- Node 3 N French EO Millersport (25")

Summary Conclusion:

Based on the data presented in this report, specifically the flow depth measurements recorded (see graphs below)

- At no time did the flow depth exceed pipe diameter at Nodes 1 and 3 of the downstream monitoring points during the wet weather vents monitored.
- Three times the flow depth exceed pipe diameter at Node 2 of the downstream monitoring points during the wet weather vents monitored.

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Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

TECsmith

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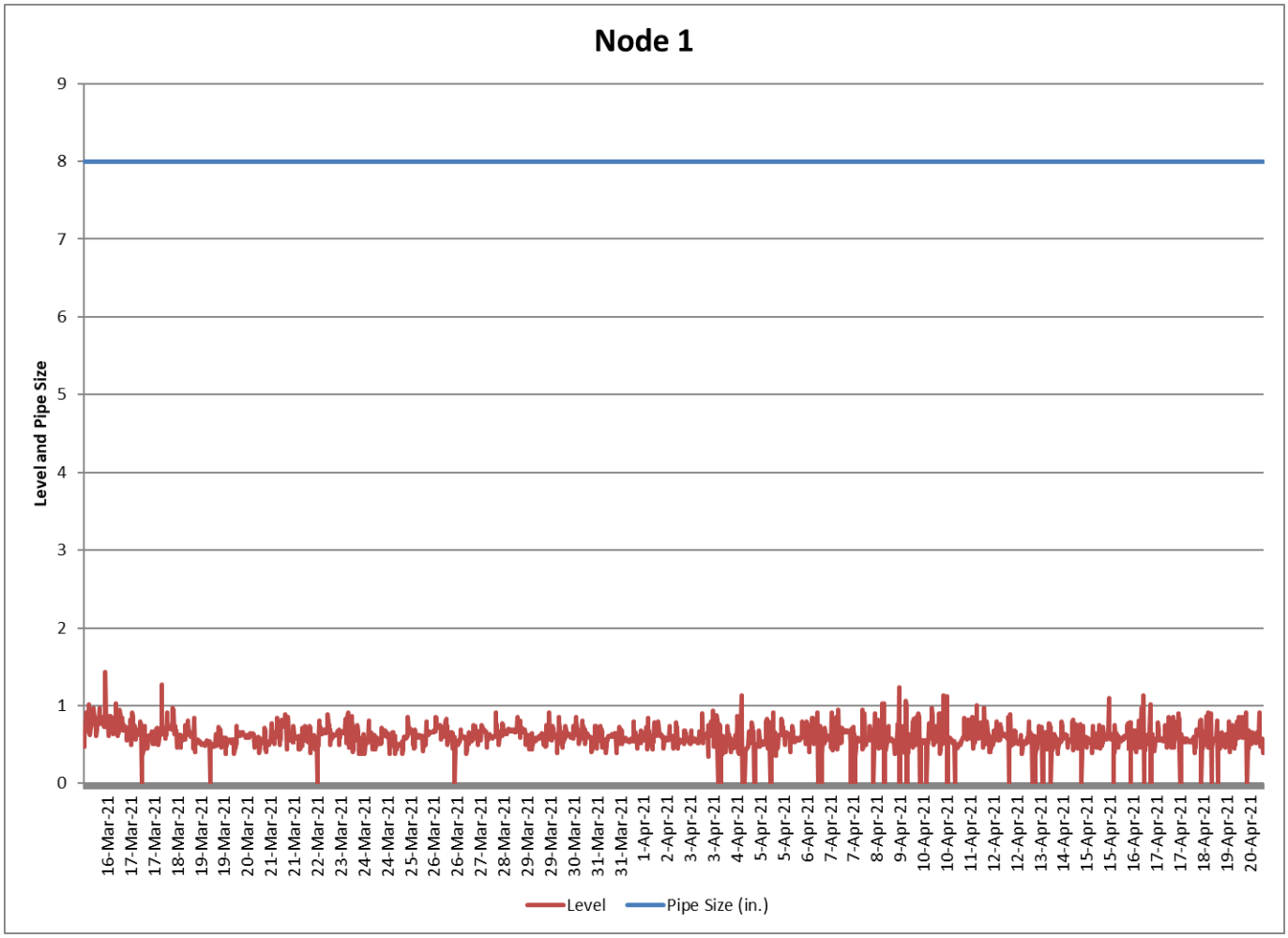
Depth of Flow Capacity Summary:

Depth of flow capacity is based on diameter of pipe. See graphs below.

- At no time during the monitoring period did depth of flow exceed pipe diameter at Node 1.



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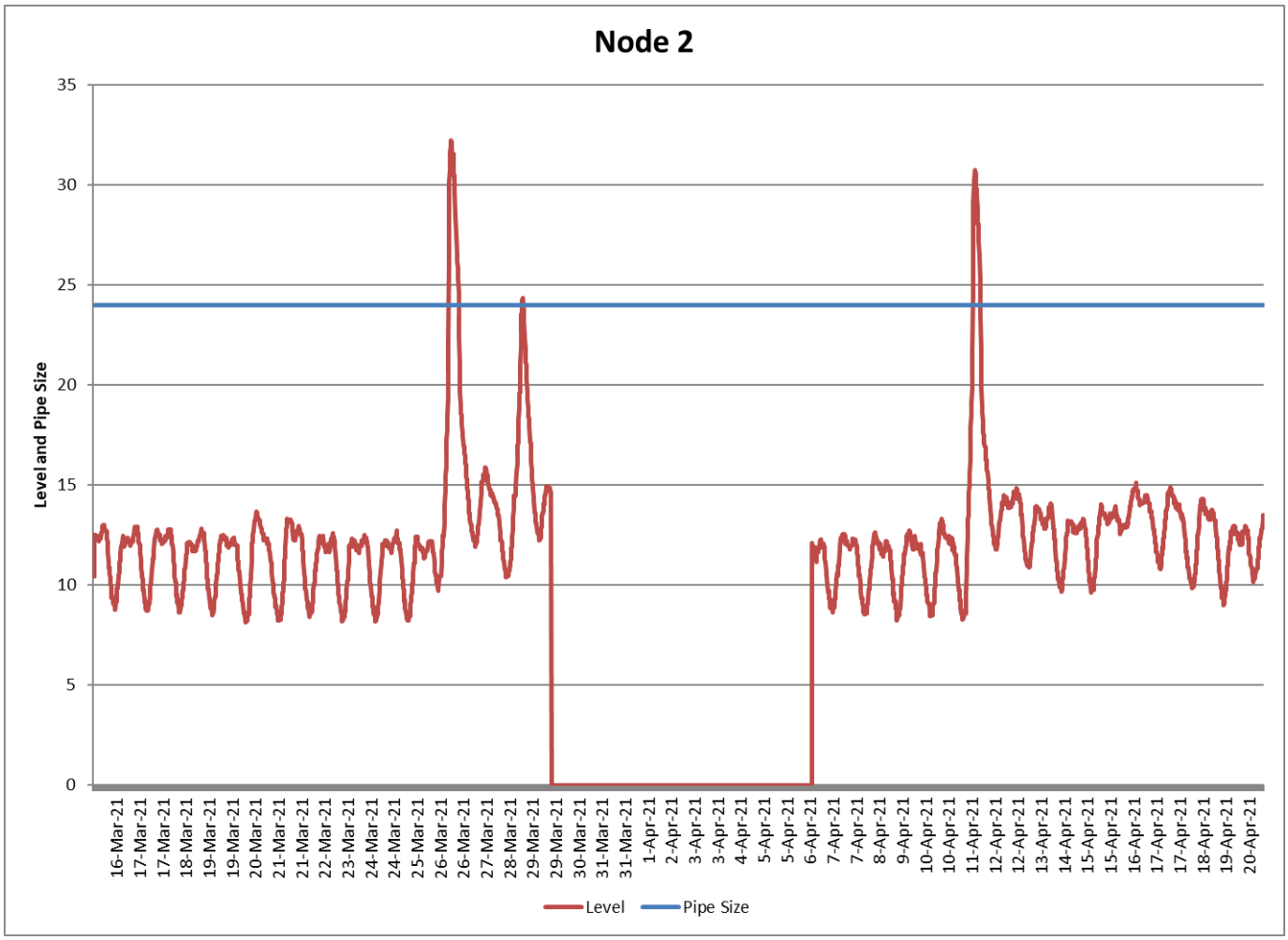
- Three times during the monitoring period did depth of flow exceed pipe diameter at Node 2.



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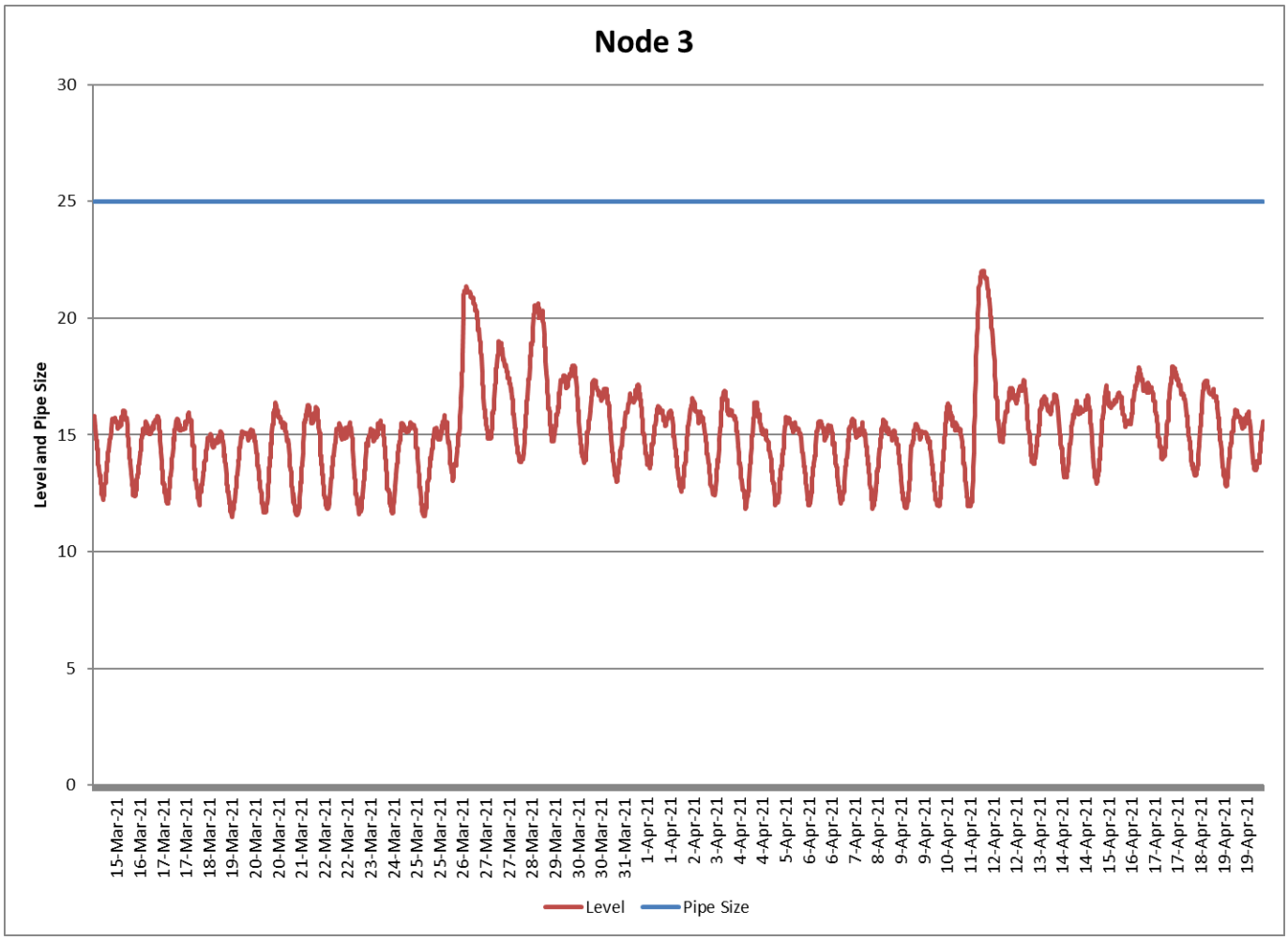
- At no time during the monitoring period did depth of flow exceed pipe diameter at Node 3.



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

(T) Amherst Engineering Department Sewer Maintenance Division Downstream Routing Map and Node Maps

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Town of Amherst Engineering Department
Sewer Maintenance Division

Main Sanitary Sewer Interceptors

DOWNSTREAM SEWER
FRENCH/DODGE TRUNK SEWER

TRANSIT ROAD TO PLANT #16

JANUARY 2021

* INCLUDES KLEIN RD DIVERSION & WOODLAND HILLS DEVELOPMENT JANUARY 2010

1789 DODGE ROAD - SUBDIVISION

AMHERST CONSOLIDATED SANITARY SEWER DISTRICT

Project Location

Sanitary Routing

Flows Updated April 2020

48-Inch Trunk Sewer
Capacity: 16.1 mgd
2.95 mgd Avg. Daily Flow
3.55 mgd Daily Peak Flow
6.45 mgd 2 yr.-6 hr. Flow
w/Klein Diversion

36-Inch French Trunk
Capacity: 9.66 mgd
2.20 mgd Avg. Daily Flow
2.75 mgd Daily Peak Flow
5.15 mgd 2 yr.-6 hr. Flow
w/Klein Diversion

24-Inch French Trunk
Capacity: 4.15 mgd
1.25 mgd Avg. Daily Flow
1.69 mgd Daily Peak Flow
2.65 mgd 2 yr.-6 hr. Flow
w/Klein Diversion

36-Inch FrenchTrunk Sewer
Capacity: 9.66 mgd
2.75 mgd Avg. Daily Flow
3.35 mgd Daily Peak Flow
5.85 mgd 2 yr.-6 hr. Flow
w/Klein Diversion

36-Inch Capacity 9.66 mgd
24-Inch Capacity 4.15 mgd

24-Inch French Trunk
Capacity: 4.15 mgd
1.80 mgd Avg. Daily Flow
2.35 mgd Daily Peak Flow
4.35 mgd 2 yr.-6 hr. Flow
w/Klein Diversion

PROJECT LOCATION

Paradise Road Sewer
15-Inch Capacity: 1.85 mgd
0.42 mgd Avg. Daily Flow
0.56 mgd Daily Peak Flow
1.55 mgd 2 yr.-6 hr. Flow
w Diversion

Klein Road Sewer
12-Inch Capacity: 1.12 mgd
0.11 mgd Avg. Daily Flow
0.25 mgd Daily Peak Flow
1.01 mgd 2 yr.-6 hr. Flow
w Diversion

Transit Rd N/O Klein Diversion
18-Inch Capacity: 3.19 mgd
0.52 mgd Avg. Daily Flow
0.88 mgd Daily Peak Flow
1.55 mgd 2 yr.-6 hr. Flow
w Diversion

State University of New York at Buffalo

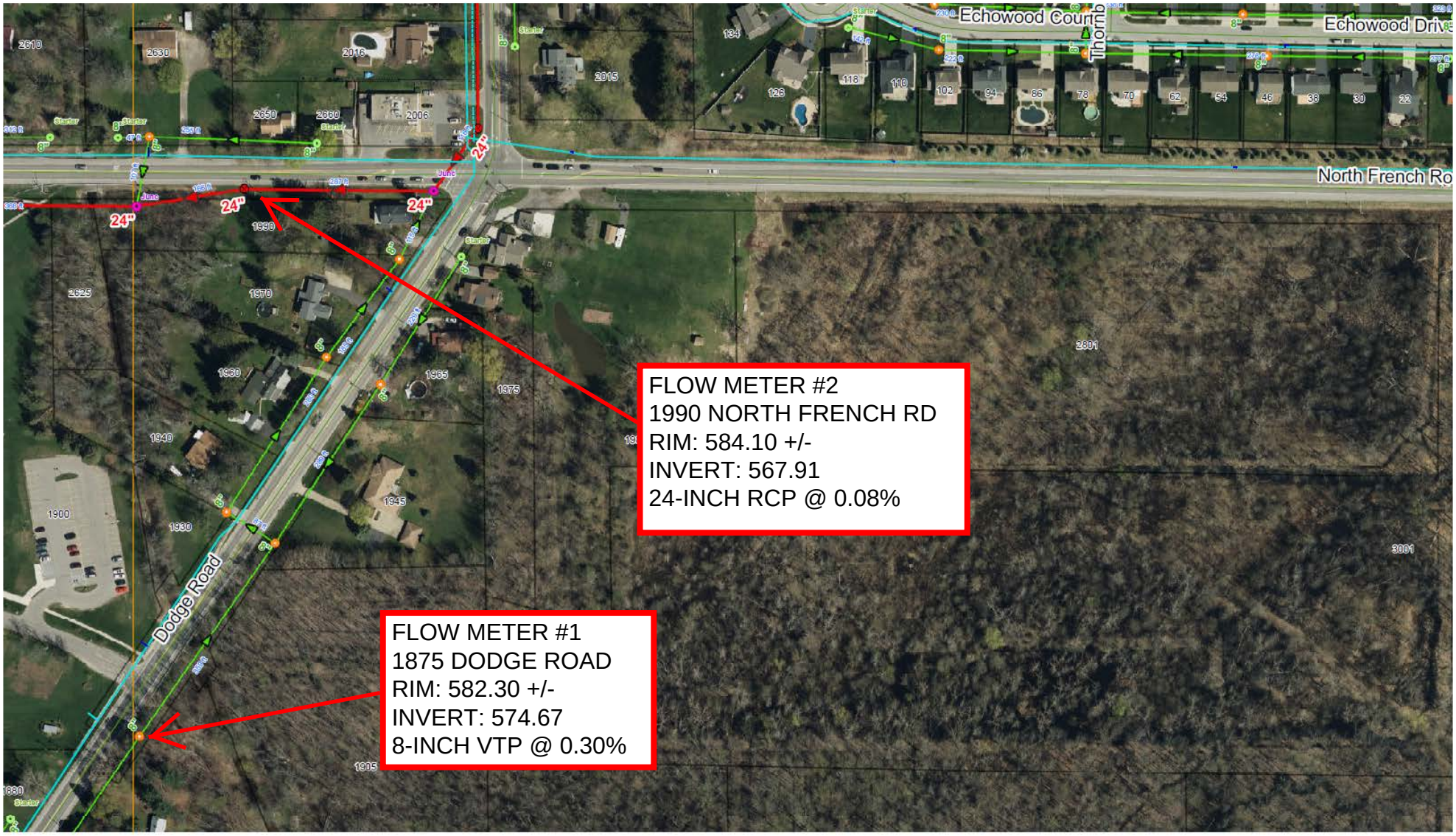
Village of Williamsville

Engineering Department
Highway Department - Plant 1

Compost Facility

1 0 1 Miles

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)



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Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Water Demand Calculations

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

CARMINA WOOD DESIGN
80 Silo City Row, Suite 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 20.247 Date: 2/10/2025
Project Name: Dodge Road Subdivision
Project Address: Amherst, New York
Subject: Domestic Water Demand Calculations
Sheet: 1 of 1

5.a

Domestic Water Demand Calculations:

Dodge Road Subdivision Typical Demand:

Q = 6,160 gpd * use 100% of Total Sanitary Average Daily Demand

Q = 4.28 gpm * assume 24 hour day

Dodge Road Subdivision Peak Demand:

Q_{peak} = 17 Units @ 3 gpm = 51 gpm Peak Demand
* use 3 gpm per unit (per ECDOH peak flow)

Headlosses:

Q_{peak} = 51 gpm
Pipe = 8 inch C-900 PVC C = 140
Length = 637 LF (approx. distance from HDY M04-G45 on Goodrich Rd to last prop. hydrant)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(637)(51)^{1.85}}{(140)^{1.85}\ (8)^{4.866}} = 0.04 \text{ ft} = 0.02 \text{ psi}$$

Δ elev = -3 ft = -1.30 psi *approximate 6' elev. drop to north unit @ building 11
Total Losses = -1.3 psi
Static Pressure = 96 psi *per ECWA
Residual Pressure in main @ last prop. Hydrant = 84 - 3.2 = 97.3 psi

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

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80 Silo City Row, Suite 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 20.247 Date: 2/10/2025
Project Name: Dodge Road Subdivision
Project Address: Amherst, New York
Subject: Fire Flow Demand Calculations
Sheet: 1 of 1

Peak Domestic Demand:

Dodge Road Subdivision

14	Units	@	3	gpm	=	42	gpm Peak Domestic Demand

* use 3 gpm per unit (per ECDOH peak flow)

Water Demand Calculations (fire):

Fire Flow, Q	=	1000	gpm	* per ISO Guidelines	
Elev. @ ex. residual hyd. K04G12	=	590	ft		
Static pressure @ ex. hyd. K04G12	=	96	psi	* per ECWA	
Elev. @ connection:	=	589.00	ft		
Δ elev ex. hyd. K04G12 to connection	=	-1.00	= -0.43 psi	(positive is decrease in pressure from static)	
				(negative is increase in pressure from static)	
Static pressure @ connection	=	96.4	psi		
Elev. @ furthest pro. hydrant	=	586	ft		
Δ elev connection point to furthest hydrant	=	-3	= -1.3 psi	(positive is decrease in pressure from static)	
				(negative is increase in pressure from static)	

Find residual at furthest hydrant using fire flow:

Headlosses:

Q_{peak}	=	1000	gpm			
Pipe	=	8	inch	C-900 PVC	C	= 140
Length	=	637	LF	(approx. distance from connection to furthest pro. hydrant)		

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(637)(1000)^{1.85}}{(140)^{1.85}\ (8)^{4.866}} = 10.19 \text{ ft} = 4.4 \text{ psi}$$

Residual pressure at furthest pro. Hydrant = Static pressure at connection - headloss - Δ elev
= 96.4 - 4.4 - -1.3
= 93.3 psi

Find residual at furthest hydrant using total flow:

Total flow = Fire Flow + Peak Domestic Flow = 1042 gpm

Headlosses:

Q_{peak}	=	1042	gpm			
Pipe	=	8	inch	C-900 PVC	C	= 140
Length	=	637	LF	(approx. distance from connection to furthest pro. hydrant)		

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(1465)(1084)^{1.85}}{(140)^{1.85}\ (8)^{4.866}} = 10.99 \text{ ft} = 4.8 \text{ psi}$$

Residual pressure at furthest pro. Hydrant = Static pressure at connection - headloss - Δ elev
= 96.4 - 4.8 - -1.3
= 93.0 psi

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

CARMINA WOOD DESIGN
80 Silo City Row, Suite 100
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 20.247 Date: 2/10/2025
Project Name: Dodge Road Subdivision
Project Address: Amherst, New York
Subject: Sanitary Sewage Demand Calcs
Sheet: 1 of 1

5.a

Sanitary Sewage Demand Calculations:

Proposed Subdivision:

14	Lots	4	bdrm	@	440	gpd	=	6,160 gpd

Total Average Daily Demand = 6,160 gpd

Find Peak Sanitary Demand:

Total demand: 6,160 gpd / 100 gpcd = 62 per capita

Population (P) = 62 people

Peaking Factor : $(18 + \sqrt{P}) / (4 + \sqrt{P})$ where P is in thousands

Peaking Factor = 4.30

Peak Sanitary Demand = 6,160 x 4.30 = 26,460 gpd
= 0.026 MGD
= 0.041 cfs

Required Infiltration and Inflow Mitigation:

Peak Sanitary Flow	=	26,460	gpd	=	18.4	gpm		
4:1 offset flow per NYSDEC requirements	=	18.4	x	4	=	73.5	gpm req'd	
Mitigation Credit	=	250	/gpm					
Mitigation Agreement Amount	=	**$18,375.27**						

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix B

Storm System Drainage Calculations

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

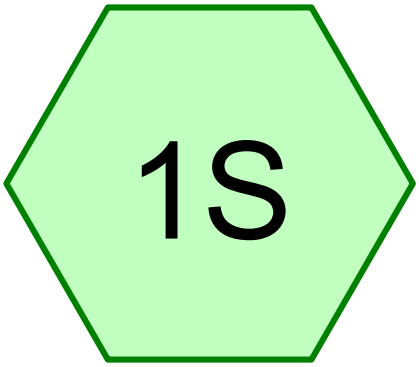
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Existing Runoff

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

PRE-DEVELOPMENT



DA PRE DEV

Subcat Reach Pond Link

Routing Diagram for 20.247 - Dodge Road Hydrology
Prepared by Carmina Wood Morris, PC, Printed 2/11/2025
HydroCAD® 10.20-2h s/n 05019 © 2024 HydroCAD Software Solutions LLC

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Project Notes

Rainfall events imported from "NRCS-Rain.txt" for 7041 NY Erie

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	NRCC 24-hr	A	Default	24.00	1	1.87	2
2	10-Year	NRCC 24-hr	A	Default	24.00	1	3.14	2
3	25-Year	NRCC 24-hr	A	Default	24.00	1	3.84	2
4	100-Year	NRCC 24-hr	A	Default	24.00	1	5.23	2

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.060	96	Gravel surface, HSG D (1S)
0.050	98	Paved parking, HSG D (1S)
0.070	98	Roofs, HSG D (1S)
6.530	79	Woods/grass comb., Good, HSG D (1S)
6.710	**79**	**TOTAL AREA**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.060	0.000	0.060	Gravel surface	1S
0.000	0.000	0.000	0.050	0.000	0.050	Paved parking	1S
0.000	0.000	0.000	0.070	0.000	0.070	Roofs	1S
0.000	0.000	0.000	6.530	0.000	6.530	Woods/grass comb., Good	1S
0.000	**0.000**	**0.000**	**6.710**	**0.000**	**6.710**	**TOTAL AREA**	

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 1S: DA PRE DEV

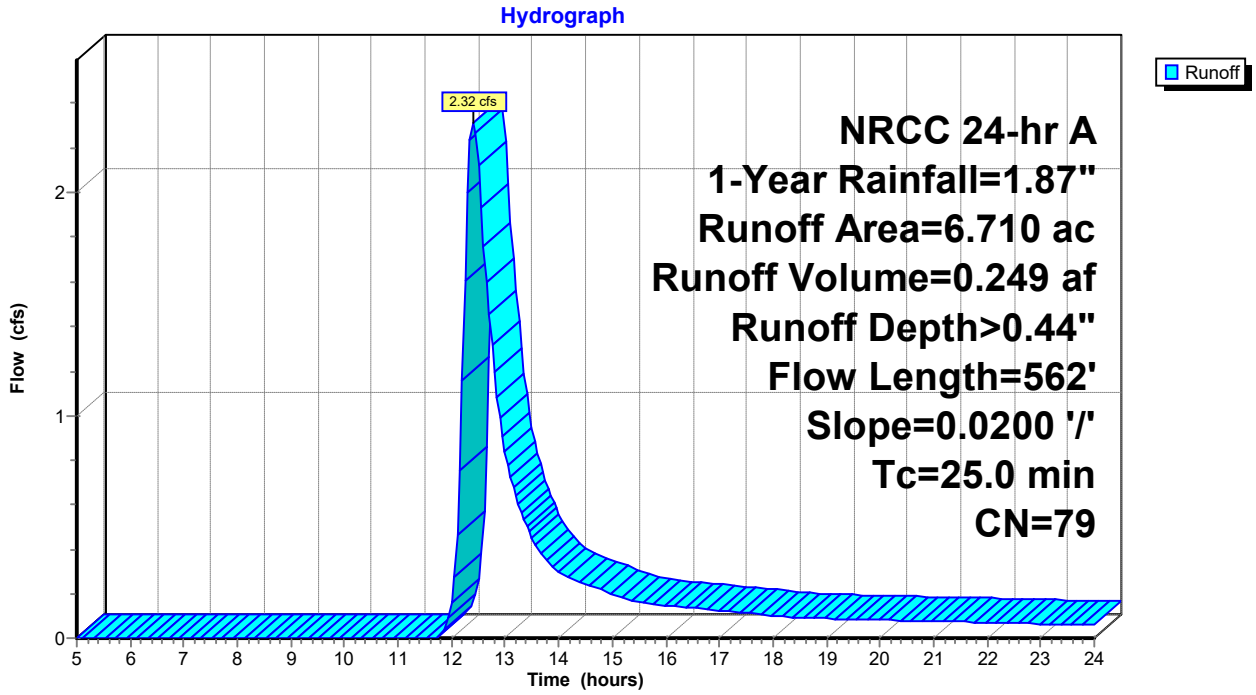
Runoff = 2.32 cfs @ 12.41 hrs, Volume= 0.249 af, Depth> 0.44"
Routed to nonexistent node 11L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 1-Year Rainfall=1.87"

Area (ac)	CN	Description
6.530	79	Woods/grass comb., Good, HSG D
0.050	98	Paved parking, HSG D
0.060	96	Gravel surface, HSG D
0.070	98	Roofs, HSG D
6.710	79	Weighted Average
6.590		98.21% Pervious Area
0.120		1.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	100	0.0200	0.10		**Sheet Flow, WOODS** Grass: Dense n= 0.240 P2= 2.20"
7.8	462	0.0200	0.99		**Shallow Concentrated Flow, WOODS** Short Grass Pasture Kv= 7.0 fps
25.0	562	Total			

Subcatchment 1S: DA PRE DEV



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 1S: DA PRE DEV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.10	0.00	0.00
5.25	0.10	0.00	0.00
5.50	0.11	0.00	0.00
5.75	0.11	0.00	0.00
6.00	0.12	0.00	0.00
6.25	0.13	0.00	0.00
6.50	0.13	0.00	0.00
6.75	0.14	0.00	0.00
7.00	0.15	0.00	0.00
7.25	0.16	0.00	0.00
7.50	0.17	0.00	0.00
7.75	0.18	0.00	0.00
8.00	0.19	0.00	0.00
8.25	0.20	0.00	0.00
8.50	0.21	0.00	0.00
8.75	0.22	0.00	0.00
9.00	0.23	0.00	0.00
9.25	0.24	0.00	0.00
9.50	0.26	0.00	0.00
9.75	0.27	0.00	0.00
10.00	0.29	0.00	0.00
10.25	0.31	0.00	0.00
10.50	0.33	0.00	0.00
10.75	0.36	0.00	0.00
11.00	0.39	0.00	0.00
11.25	0.44	0.00	0.00
11.50	0.50	0.00	0.00
11.75	0.62	0.00	0.00
12.00	0.88	0.04	0.16
12.25	1.25	0.15	**1.61**
12.50	1.37	0.20	**2.12**
12.75	1.43	0.23	1.32
13.00	1.48	0.25	0.83
13.25	1.51	0.26	0.60
13.50	1.54	0.28	0.45
13.75	1.56	0.29	0.36
14.00	1.58	0.30	0.30
14.25	1.60	0.30	0.27
14.50	1.61	0.31	0.24
14.75	1.63	0.32	0.22
15.00	1.64	0.33	0.20
15.25	1.65	0.33	0.18
15.50	1.66	0.34	0.16
15.75	1.67	0.34	0.15
16.00	1.68	0.35	0.15
16.25	1.69	0.35	0.14
16.50	1.70	0.36	0.14
16.75	1.71	0.36	0.13
17.00	1.72	0.37	0.12
17.25	1.73	0.37	0.12
17.50	1.74	0.38	0.11
17.75	1.74	0.38	0.11
18.00	1.75	0.38	0.10
18.25	1.76	0.39	0.09
18.50	1.76	0.39	0.09
18.75	1.77	0.39	0.09
19.00	1.77	0.40	0.09
19.25	1.78	0.40	0.09
19.50	1.79	0.40	0.08
19.75	1.79	0.41	0.08
20.00	1.80	0.41	0.08
20.25	1.80	0.41	0.08
20.50	1.81	0.41	0.08
20.75	1.81	0.42	0.08
21.00	1.82	0.42	0.08
21.25	1.82	0.42	0.07
21.50	1.83	0.42	0.07
21.75	1.83	0.43	0.07
22.00	1.84	0.43	0.07
22.25	1.84	0.43	0.07
22.50	1.85	0.43	0.07
22.75	1.85	0.44	0.07
23.00	1.85	0.44	0.06
23.25	1.86	0.44	0.06
23.50	1.86	0.44	0.06
23.75	1.87	0.45	0.06
24.00	**1.87**	**0.45**	0.06

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 1S: DA PRE DEV

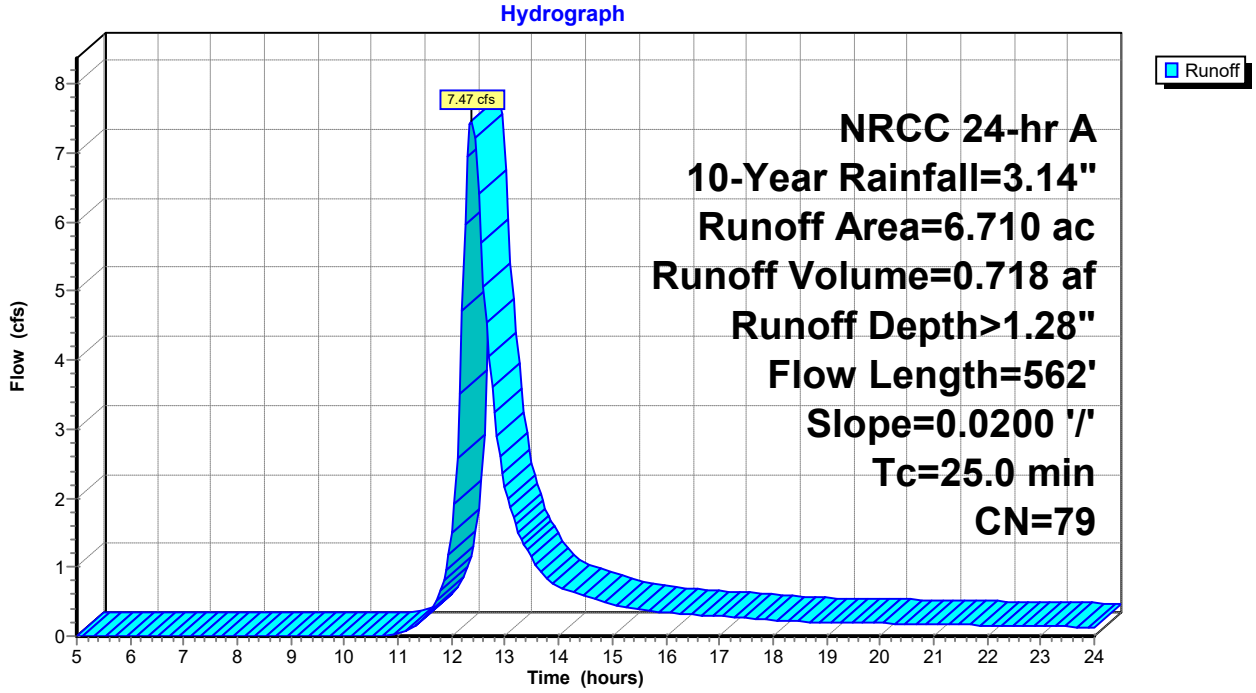
Runoff = 7.47 cfs @ 12.37 hrs, Volume= 0.718 af, Depth> 1.28"
Routed to nonexistent node 11L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 10-Year Rainfall=3.14"

Area (ac)	CN	Description
6.530	79	Woods/grass comb., Good, HSG D
0.050	98	Paved parking, HSG D
0.060	96	Gravel surface, HSG D
0.070	98	Roofs, HSG D
6.710	79	Weighted Average
6.590		98.21% Pervious Area
0.120		1.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	100	0.0200	0.10		**Sheet Flow, WOODS** Grass: Dense n= 0.240 P2= 2.20"
7.8	462	0.0200	0.99		**Shallow Concentrated Flow, WOODS** Short Grass Pasture Kv= 7.0 fps
25.0	562	Total			

Subcatchment 1S: DA PRE DEV



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 1S: DA PRE DEV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.16	0.00	0.00	19.25	2.99	1.18	0.20
5.25	0.17	0.00	0.00	19.50	3.00	1.19	0.19
5.50	0.18	0.00	0.00	19.75	3.01	1.19	0.19
5.75	0.19	0.00	0.00	20.00	3.02	1.20	0.19
6.00	0.20	0.00	0.00	20.25	3.03	1.21	0.18
6.25	0.21	0.00	0.00	20.50	3.04	1.21	0.18
6.50	0.22	0.00	0.00	20.75	3.04	1.22	0.18
6.75	0.24	0.00	0.00	21.00	3.05	1.23	0.17
7.00	0.25	0.00	0.00	21.25	3.06	1.23	0.17
7.25	0.26	0.00	0.00	21.50	3.07	1.24	0.16
7.50	0.28	0.00	0.00	21.75	3.08	1.24	0.16
7.75	0.29	0.00	0.00	22.00	3.08	1.25	0.16
8.00	0.31	0.00	0.00	22.25	3.09	1.26	0.15
8.25	0.33	0.00	0.00	22.50	3.10	1.26	0.15
8.50	0.35	0.00	0.00	22.75	3.11	1.27	0.15
8.75	0.36	0.00	0.00	23.00	3.11	1.27	0.14
9.00	0.38	0.00	0.00	23.25	3.12	1.28	0.14
9.25	0.41	0.00	0.00	23.50	3.13	1.28	0.14
9.50	0.43	0.00	0.00	23.75	3.13	1.29	0.13
9.75	0.46	0.00	0.00	24.00	**3.14**	**1.29**	0.13
10.00	0.49	0.00	0.00				
10.25	0.52	0.00	0.00				
10.50	0.56	0.00	0.00				
10.75	0.61	0.00	0.01				
11.00	0.66	0.01	0.05				
11.25	0.74	0.02	0.12				
11.50	0.84	0.03	0.26				
11.75	1.03	0.08	0.56				
12.00	1.48	0.25	1.49				
12.25	2.11	0.59	**5.96**				
12.50	2.30	0.70	**6.40**				
12.75	2.40	0.77	3.62				
13.00	2.48	0.82	2.16				
13.25	2.53	0.86	1.50				
13.50	2.58	0.89	1.11				
13.75	2.62	0.92	0.87				
14.00	2.65	0.94	0.71				
14.25	2.68	0.96	0.64				
14.50	2.71	0.98	0.58				
14.75	2.73	1.00	0.52				
15.00	2.76	1.01	0.47				
15.25	2.78	1.03	0.42				
15.50	2.79	1.04	0.38				
15.75	2.81	1.05	0.36				
16.00	2.83	1.07	0.34				
16.25	2.85	1.08	0.33				
16.50	2.86	1.09	0.32				
16.75	2.88	1.10	0.30				
17.00	2.89	1.11	0.29				
17.25	2.90	1.12	0.27				
17.50	2.92	1.13	0.26				
17.75	2.93	1.14	0.25				
18.00	2.94	1.14	0.23				
18.25	2.95	1.15	0.22				
18.50	2.96	1.16	0.21				
18.75	2.97	1.17	0.20				
19.00	2.98	1.17	0.20				

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 1S: DA PRE DEV

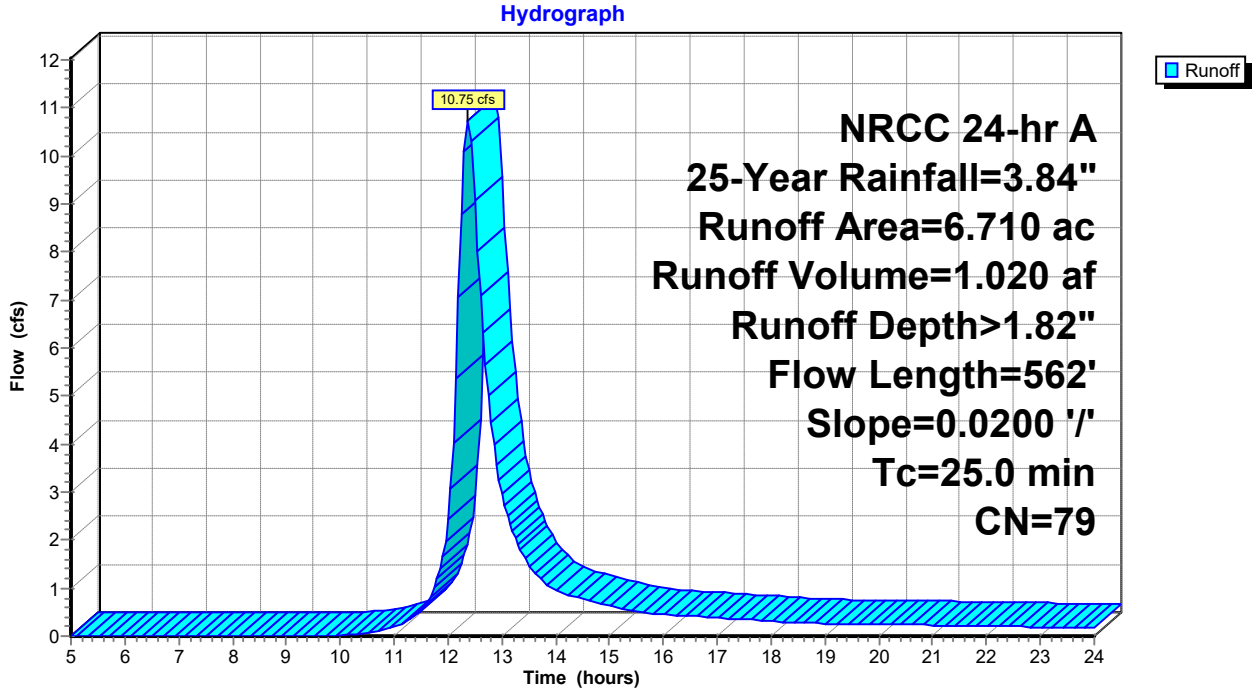
Runoff = 10.75 cfs @ 12.37 hrs, Volume= 1.020 af, Depth> 1.82"
Routed to nonexistent node 11L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 25-Year Rainfall=3.84"

Area (ac)	CN	Description
6.530	79	Woods/grass comb., Good, HSG D
0.050	98	Paved parking, HSG D
0.060	96	Gravel surface, HSG D
0.070	98	Roofs, HSG D
6.710	79	Weighted Average
6.590		98.21% Pervious Area
0.120		1.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	100	0.0200	0.10		**Sheet Flow, WOODS** Grass: Dense n= 0.240 P2= 2.20"
7.8	462	0.0200	0.99		**Shallow Concentrated Flow, WOODS** Short Grass Pasture Kv= 7.0 fps
25.0	562	Total			

Subcatchment 1S: DA PRE DEV



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 1S: DA PRE DEV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.20	0.00	0.00	19.25	3.66	1.69	0.26
5.25	0.21	0.00	0.00	19.50	3.67	1.70	0.25
5.50	0.22	0.00	0.00	19.75	3.68	1.71	0.25
5.75	0.23	0.00	0.00	20.00	3.69	1.72	0.25
6.00	0.25	0.00	0.00	20.25	3.70	1.72	0.24
6.25	0.26	0.00	0.00	20.50	3.71	1.73	0.24
6.50	0.27	0.00	0.00	20.75	3.72	1.74	0.23
6.75	0.29	0.00	0.00	21.00	3.73	1.75	0.23
7.00	0.31	0.00	0.00	21.25	3.74	1.76	0.22
7.25	0.32	0.00	0.00	21.50	3.75	1.77	0.22
7.50	0.34	0.00	0.00	21.75	3.76	1.77	0.21
7.75	0.36	0.00	0.00	22.00	3.77	1.78	0.21
8.00	0.38	0.00	0.00	22.25	3.78	1.79	0.20
8.25	0.40	0.00	0.00	22.50	3.79	1.79	0.20
8.50	0.42	0.00	0.00	22.75	3.80	1.80	0.19
8.75	0.45	0.00	0.00	23.00	3.81	1.81	0.19
9.00	0.47	0.00	0.00	23.25	3.82	1.82	0.18
9.25	0.50	0.00	0.00	23.50	3.82	1.82	0.18
9.50	0.53	0.00	0.00	23.75	3.83	1.83	0.17
9.75	0.56	0.00	0.00	24.00	**3.84**	**1.83**	0.17
10.00	0.60	0.00	0.01				
10.25	0.64	0.00	0.04				
10.50	0.68	0.01	0.07				
10.75	0.74	0.02	0.11				
11.00	0.81	0.03	0.19				
11.25	0.91	0.05	0.32				
11.50	1.03	0.08	0.55				
11.75	1.26	0.16	1.02				
12.00	1.81	0.41	2.45				
12.25	2.58	0.89	**8.77**				
12.50	2.81	1.05	**9.06**				
12.75	2.93	1.14	5.01				
13.00	3.03	1.21	2.96				
13.25	3.10	1.26	2.04				
13.50	3.16	1.30	1.50				
13.75	3.20	1.34	1.16				
14.00	3.24	1.37	0.96				
14.25	3.28	1.40	0.85				
14.50	3.31	1.42	0.77				
14.75	3.34	1.45	0.70				
15.00	3.37	1.47	0.63				
15.25	3.39	1.48	0.55				
15.50	3.42	1.50	0.50				
15.75	3.44	1.52	0.48				
16.00	3.46	1.53	0.46				
16.25	3.48	1.55	0.44				
16.50	3.50	1.57	0.42				
16.75	3.52	1.58	0.40				
17.00	3.53	1.59	0.38				
17.25	3.55	1.61	0.36				
17.50	3.57	1.62	0.35				
17.75	3.58	1.63	0.33				
18.00	3.59	1.64	0.31				
18.25	3.61	1.65	0.29				
18.50	3.62	1.66	0.28				
18.75	3.63	1.67	0.27				
19.00	3.64	1.68	0.26				

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 1S: DA PRE DEV

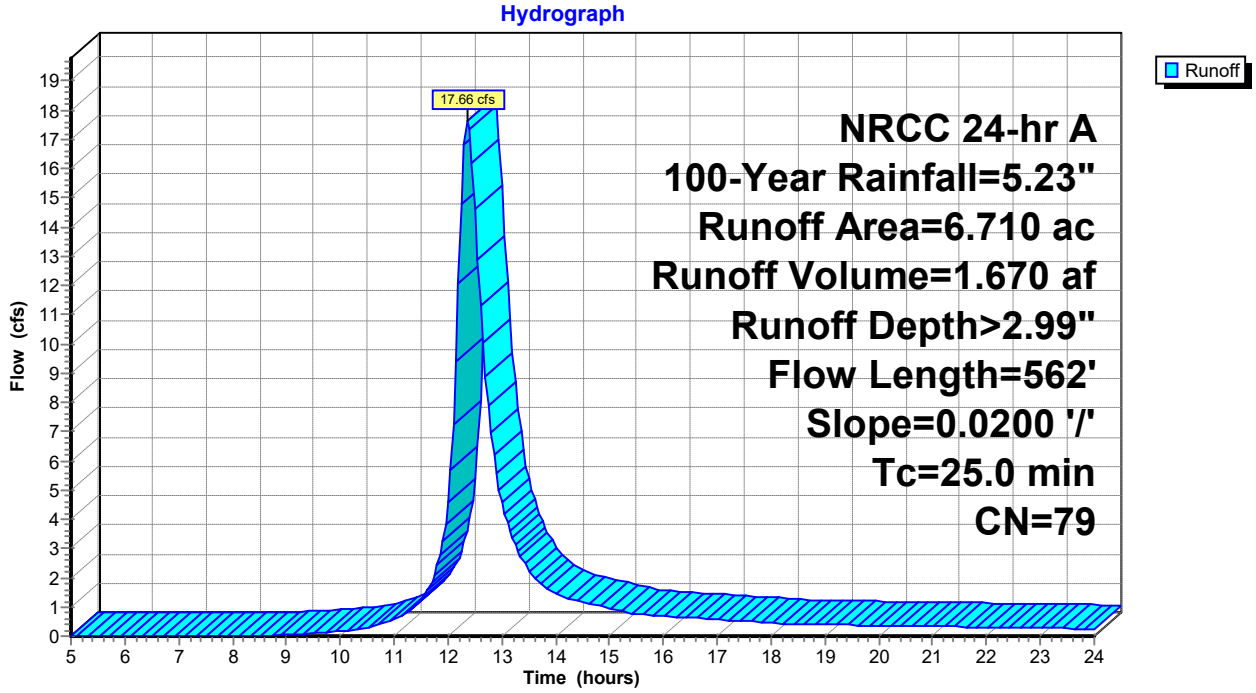
Runoff = 17.66 cfs @ 12.36 hrs, Volume= 1.670 af, Depth> 2.99"
Routed to nonexistent node 11L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 100-Year Rainfall=5.23"

Area (ac)	CN	Description
6.530	79	Woods/grass comb., Good, HSG D
0.050	98	Paved parking, HSG D
0.060	96	Gravel surface, HSG D
0.070	98	Roofs, HSG D
6.710	79	Weighted Average
6.590		98.21% Pervious Area
0.120		1.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	100	0.0200	0.10		**Sheet Flow, WOODS** Grass: Dense n= 0.240 P2= 2.20"
7.8	462	0.0200	0.99		**Shallow Concentrated Flow, WOODS** Short Grass Pasture Kv= 7.0 fps
25.0	562	Total			

Subcatchment 1S: DA PRE DEV



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 1S: DA PRE DEV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.27	0.00	0.00	19.25	4.98	2.78	0.39
5.25	0.28	0.00	0.00	19.50	5.00	2.80	0.38
5.50	0.30	0.00	0.00	19.75	5.01	2.81	0.37
5.75	0.32	0.00	0.00	20.00	5.03	2.82	0.36
6.00	0.33	0.00	0.00	20.25	5.04	2.84	0.36
6.25	0.35	0.00	0.00	20.50	5.06	2.85	0.35
6.50	0.37	0.00	0.00	20.75	5.07	2.86	0.34
6.75	0.39	0.00	0.00	21.00	5.08	2.87	0.34
7.00	0.42	0.00	0.00	21.25	5.10	2.89	0.33
7.25	0.44	0.00	0.00	21.50	5.11	2.90	0.32
7.50	0.46	0.00	0.00	21.75	5.12	2.91	0.32
7.75	0.49	0.00	0.00	22.00	5.14	2.92	0.31
8.00	0.52	0.00	0.00	22.25	5.15	2.93	0.30
8.25	0.55	0.00	0.00	22.50	5.16	2.94	0.29
8.50	0.58	0.00	0.00	22.75	5.17	2.95	0.29
8.75	0.61	0.00	0.02	23.00	5.19	2.96	0.28
9.00	0.64	0.00	0.04	23.25	5.20	2.97	0.27
9.25	0.68	0.01	0.06	23.50	5.21	2.98	0.26
9.50	0.72	0.01	0.09	23.75	5.22	2.99	0.26
9.75	0.76	0.02	0.13	24.00	**5.23**	**3.00**	0.25
10.00	0.81	0.03	0.17				
10.25	0.87	0.04	0.23				
10.50	0.93	0.05	0.30				
10.75	1.01	0.07	0.39				
11.00	1.10	0.10	0.56				
11.25	1.24	0.15	0.81				
11.50	1.40	0.22	1.26				
11.75	1.72	0.37	2.12				
12.00	2.46	0.81	4.59				
12.25	3.51	1.57	**14.79**				
12.50	3.83	1.82	**14.60**				
12.75	3.99	1.96	7.87				
13.00	4.13	2.07	4.57				
13.25	4.22	2.15	3.11				
13.50	4.30	2.21	2.27				
13.75	4.36	2.26	1.76				
14.00	4.42	2.31	1.44				
14.25	4.47	2.35	1.28				
14.50	4.51	2.39	1.16				
14.75	4.55	2.42	1.05				
15.00	4.59	2.45	0.94				
15.25	4.62	2.48	0.83				
15.50	4.65	2.51	0.75				
15.75	4.68	2.53	0.71				
16.00	4.71	2.56	0.68				
16.25	4.74	2.58	0.66				
16.50	4.77	2.60	0.63				
16.75	4.79	2.62	0.60				
17.00	4.81	2.64	0.57				
17.25	4.84	2.66	0.54				
17.50	4.86	2.68	0.51				
17.75	4.88	2.70	0.49				
18.00	4.90	2.71	0.46				
18.25	4.91	2.73	0.43				
18.50	4.93	2.74	0.41				
18.75	4.95	2.76	0.40				
19.00	4.96	2.77	0.39				

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

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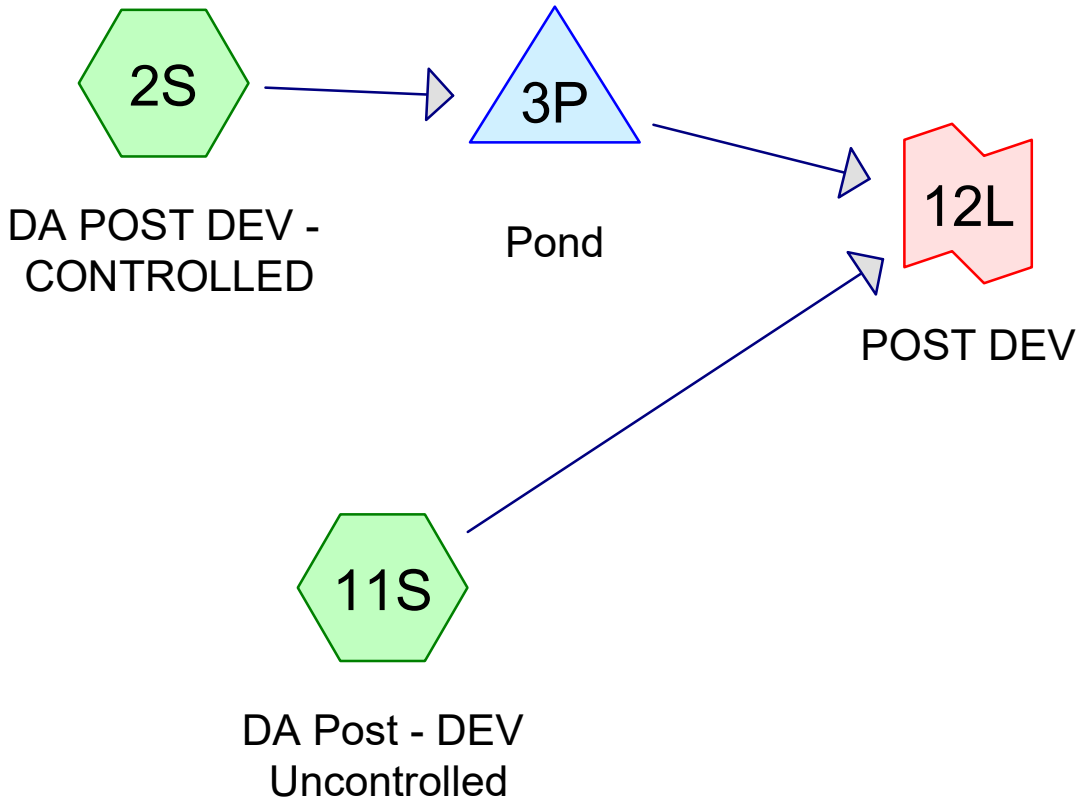
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Proposed Runoff

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

POST-DEVELOPMENT



Subcat Reach Pond Link

Routing Diagram for 20.247 - Dodge Road Hydrology
Prepared by Carmina Wood Morris, PC, Printed 2/11/2025
HydroCAD® 10.20-2h s/n 05019 © 2024 HydroCAD Software Solutions LLC

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Project Notes

Rainfall events imported from "NRCS-Rain.txt" for 7041 NY Erie

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	NRCC 24-hr	A	Default	24.00	1	1.87	2
2	10-Year	NRCC 24-hr	A	Default	24.00	1	3.14	2
3	25-Year	NRCC 24-hr	A	Default	24.00	1	3.84	2
4	100-Year	NRCC 24-hr	A	Default	24.00	1	5.23	2

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
3.270	87	1/4 acre lots, 38% imp, HSG D (2S)
2.470	80	>75% Grass cover, Good, HSG D (2S, 11S)
0.970	98	Paved parking, HSG D (2S)
6.710	**86**	**TOTAL AREA**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
6.710	HSG D	2S, 11S
0.000	Other	
6.710		**TOTAL AREA**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchn Numbers
0.000	0.000	0.000	3.270	0.000	3.270	1/4 acre lots, 38% imp	2S
0.000	0.000	0.000	2.470	0.000	2.470	>75% Grass cover, Good	2S, 11S
0.000	0.000	0.000	0.970	0.000	0.970	Paved parking	2S
0.000	**0.000**	**0.000**	**6.710**	**0.000**	**6.710**	**TOTAL AREA**	

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Pipe Listing (selected nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	2S	0.00	0.00	740.0	0.0040	0.013	0.0	12.0	0.0
2	3P	578.51	578.45	16.0	0.0037	0.012	0.0	8.0	0.0
3	3P	578.34	578.21	34.0	0.0038	0.012	0.0	18.0	0.0

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Time span=5.00-24.00 hrs, dt=0.05 hrs, 381 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 2S: DA POST DEV - Runoff Area=5.610 ac 39.44% Impervious Runoff Depth>0.80"
Flow Length=860' Tc=27.1 min CN=87 Runoff=3.74 cfs 0.374 af

Subcatchment 11S: DA Post - DEV Runoff Area=1.100 ac 0.00% Impervious Runoff Depth>0.48"
Flow Length=370' Slope=0.0100 '/' Tc=22.0 min CN=80 Runoff=0.45 cfs 0.044 af

Pond 3P: Pond Peak Elev=580.32' Storage=3,985 cf Inflow=3.74 cfs 0.374 af
Outflow=2.05 cfs 0.367 af

Link 12L: POST DEV Inflow=2.29 cfs 0.411 af
Primary=2.29 cfs 0.411 af

Total Runoff Area = 6.710 ac Runoff Volume = 0.418 af Average Runoff Depth = 0.75"
67.03% Pervious = 4.497 ac 32.97% Impervious = 2.213 ac

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 2S: DA POST DEV - CONTROLLED

[47] Hint: Peak is 166% of capacity of segment #3

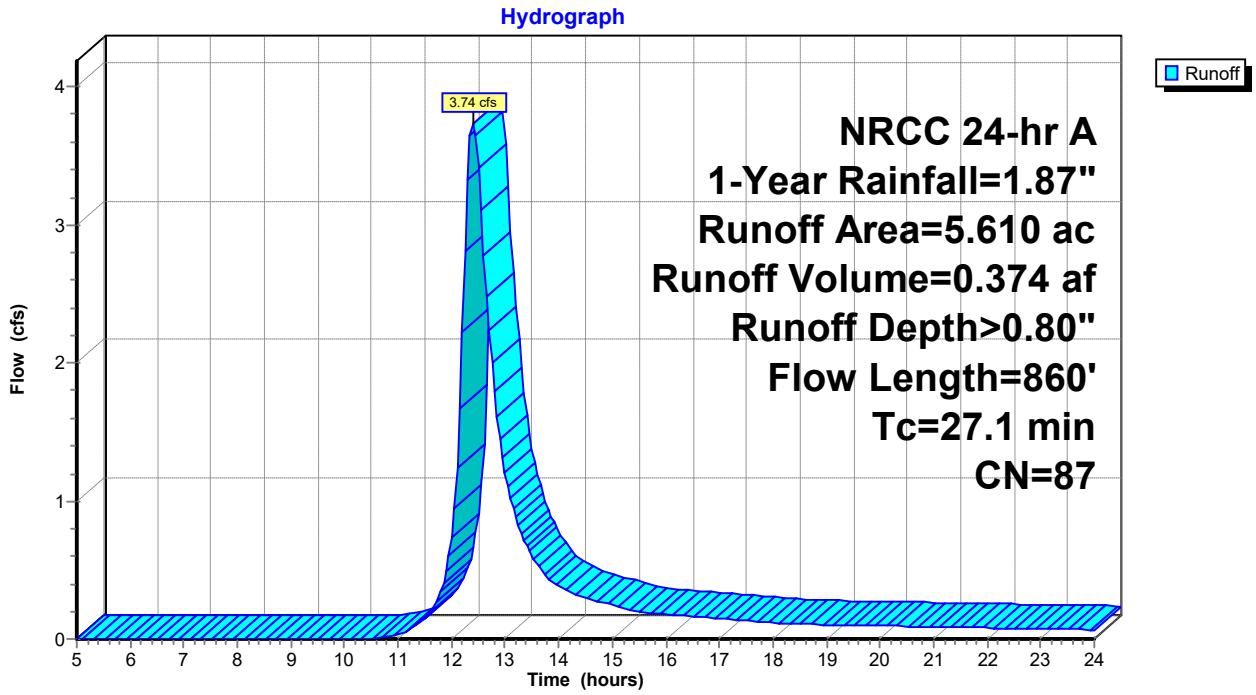
Runoff = 3.74 cfs @ 12.40 hrs, Volume= 0.374 af, Depth> 0.80"
Routed to Pond 3P : Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.970	98	Paved parking, HSG D
3.270	87	1/4 acre lots, 38% imp, HSG D
1.370	80	>75% Grass cover, Good, HSG D
5.610	87	Weighted Average
3.397		60.56% Pervious Area
2.213		39.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.7	100	0.0100	0.07		**Sheet Flow, SF** Grass: Dense n= 0.240 P2= 2.20"
0.1	20	0.0200	2.28		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
4.3	740	0.0040	2.87	2.25	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Concrete pipe, straight & clean
27.1	860	Total			

Subcatchment 2S: DA POST DEV - CONTROLLED



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 2S: DA POST DEV - CONTROLLED

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.10	0.00	0.00
5.25	0.10	0.00	0.00
5.50	0.11	0.00	0.00
5.75	0.11	0.00	0.00
6.00	0.12	0.00	0.00
6.25	0.13	0.00	0.00
6.50	0.13	0.00	0.00
6.75	0.14	0.00	0.00
7.00	0.15	0.00	0.00
7.25	0.16	0.00	0.00
7.50	0.17	0.00	0.00
7.75	0.18	0.00	0.00
8.00	0.19	0.00	0.00
8.25	0.20	0.00	0.00
8.50	0.21	0.00	0.00
8.75	0.22	0.00	0.00
9.00	0.23	0.00	0.00
9.25	0.24	0.00	0.00
9.50	0.26	0.00	0.00
9.75	0.27	0.00	0.00
10.00	0.29	0.00	0.00
10.25	0.31	0.00	0.00
10.50	0.33	0.00	0.00
10.75	0.36	0.00	0.01
11.00	0.39	0.01	0.04
11.25	0.44	0.01	0.07
11.50	0.50	0.02	0.15
11.75	0.62	0.06	0.29
12.00	0.88	0.16	0.74
12.25	1.25	0.37	**2.81**
12.50	1.37	0.45	**3.41**
12.75	1.43	0.49	2.00
13.00	1.48	0.52	1.20
13.25	1.51	0.54	0.82
13.50	1.54	0.56	0.60
13.75	1.56	0.58	0.46
14.00	1.58	0.59	0.38
14.25	1.60	0.60	0.33
14.50	1.61	0.62	0.30
14.75	1.63	0.63	0.27
15.00	1.64	0.64	0.24
15.25	1.65	0.64	0.22
15.50	1.66	0.65	0.20
15.75	1.67	0.66	0.18
16.00	1.68	0.67	0.18
16.25	1.69	0.67	0.17
16.50	1.70	0.68	0.16
16.75	1.71	0.69	0.16
17.00	1.72	0.69	0.15
17.25	1.73	0.70	0.14
17.50	1.74	0.71	0.13
17.75	1.74	0.71	0.13
18.00	1.75	0.72	0.12
18.25	1.76	0.72	0.11
18.50	1.76	0.72	0.11
18.75	1.77	0.73	0.10
19.00	1.77	0.73	0.10
19.25	1.78	0.74	0.10
19.50	1.79	0.74	0.10
19.75	1.79	0.75	0.10
20.00	1.80	0.75	0.10
20.25	1.80	0.75	0.09
20.50	1.81	0.76	0.09
20.75	1.81	0.76	0.09
21.00	1.82	0.77	0.09
21.25	1.82	0.77	0.09
21.50	1.83	0.77	0.08
21.75	1.83	0.78	0.08
22.00	1.84	0.78	0.08
22.25	1.84	0.78	0.08
22.50	1.85	0.79	0.08
22.75	1.85	0.79	0.08
23.00	1.85	0.79	0.07
23.25	1.86	0.80	0.07
23.50	1.86	0.80	0.07
23.75	1.87	0.80	0.07
24.00	**1.87**	**0.81**	0.07

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 11S: DA Post - DEV Uncontrolled

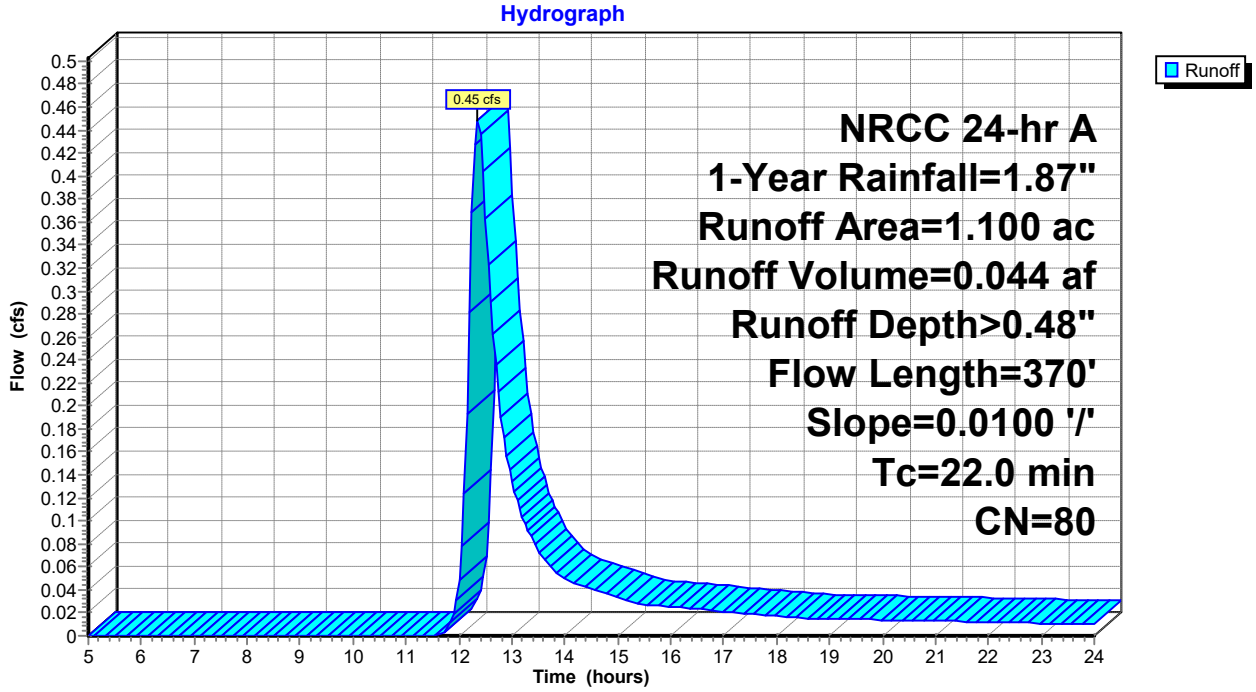
Runoff = 0.45 cfs @ 12.36 hrs, Volume= 0.044 af, Depth> 0.48"
Routed to Link 12L : POST DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 1-Year Rainfall=1.87"

Area (ac)	CN	Description
1.100	80	>75% Grass cover, Good, HSG D
1.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	100	0.0100	0.11		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
6.4	270	0.0100	0.70		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
22.0	370	Total			

Subcatchment 11S: DA Post - DEV Uncontrolled



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 11S: DA Post - DEV Uncontrolled

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.10	0.00	0.00
5.25	0.10	0.00	0.00
5.50	0.11	0.00	0.00
5.75	0.11	0.00	0.00
6.00	0.12	0.00	0.00
6.25	0.13	0.00	0.00
6.50	0.13	0.00	0.00
6.75	0.14	0.00	0.00
7.00	0.15	0.00	0.00
7.25	0.16	0.00	0.00
7.50	0.17	0.00	0.00
7.75	0.18	0.00	0.00
8.00	0.19	0.00	0.00
8.25	0.20	0.00	0.00
8.50	0.21	0.00	0.00
8.75	0.22	0.00	0.00
9.00	0.23	0.00	0.00
9.25	0.24	0.00	0.00
9.50	0.26	0.00	0.00
9.75	0.27	0.00	0.00
10.00	0.29	0.00	0.00
10.25	0.31	0.00	0.00
10.50	0.33	0.00	0.00
10.75	0.36	0.00	0.00
11.00	0.39	0.00	0.00
11.25	0.44	0.00	0.00
11.50	0.50	0.00	0.00
11.75	0.62	0.01	0.00
12.00	0.88	0.05	0.05
12.25	1.25	0.17	**0.37**
12.50	1.37	0.22	**0.36**
12.75	1.43	0.25	0.21
13.00	1.48	0.27	0.13
13.25	1.51	0.29	0.10
13.50	1.54	0.30	0.07
13.75	1.56	0.32	0.06
14.00	1.58	0.33	0.05
14.25	1.60	0.33	0.05
14.50	1.61	0.34	0.04
14.75	1.63	0.35	0.04
15.00	1.64	0.36	0.03
15.25	1.65	0.36	0.03
15.50	1.66	0.37	0.03
15.75	1.67	0.38	0.03
16.00	1.68	0.38	0.03
16.25	1.69	0.39	0.02
16.50	1.70	0.39	0.02
16.75	1.71	0.40	0.02
17.00	1.72	0.40	0.02
17.25	1.73	0.41	0.02
17.50	1.74	0.41	0.02
17.75	1.74	0.41	0.02
18.00	1.75	0.42	0.02
18.25	1.76	0.42	0.02
18.50	1.76	0.42	0.02
18.75	1.77	0.43	0.02
19.00	1.77	0.43	0.01
19.25	1.78	0.43	0.01
19.50	1.79	0.44	0.01
19.75	1.79	0.44	0.01
20.00	1.80	0.44	0.01
20.25	1.80	0.45	0.01
20.50	1.81	0.45	0.01
20.75	1.81	0.45	0.01
21.00	1.82	0.45	0.01
21.25	1.82	0.46	0.01
21.50	1.83	0.46	0.01
21.75	1.83	0.46	0.01
22.00	1.84	0.47	0.01
22.25	1.84	0.47	0.01
22.50	1.85	0.47	0.01
22.75	1.85	0.47	0.01
23.00	1.85	0.48	0.01
23.25	1.86	0.48	0.01
23.50	1.86	0.48	0.01
23.75	1.87	0.48	0.01
24.00	**1.87**	**0.48**	0.01

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Pond 3P: Pond

Inflow Area = 5.610 ac, 39.44% Impervious, Inflow Depth > 0.80" for 1-Year event
Inflow = 3.74 cfs @ 12.40 hrs, Volume= 0.374 af
Outflow = 2.05 cfs @ 12.74 hrs, Volume= 0.367 af, Atten= 45%, Lag= 20.5 min
Primary = 2.05 cfs @ 12.74 hrs, Volume= 0.367 af
Routed to Link 12L : POST DEV

Routing by Stor-Ind method, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 580.32' @ 12.74 hrs Surf.Area= 2,767 sf Storage= 3,985 cf

Plug-Flow detention time= 36.2 min calculated for 0.367 af (98% of inflow)
Center-of-Mass det. time= 25.4 min (871.8 - 846.4)

Volume	Invert	Avail.Storage	Storage Description
#1	578.50'	34,837 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

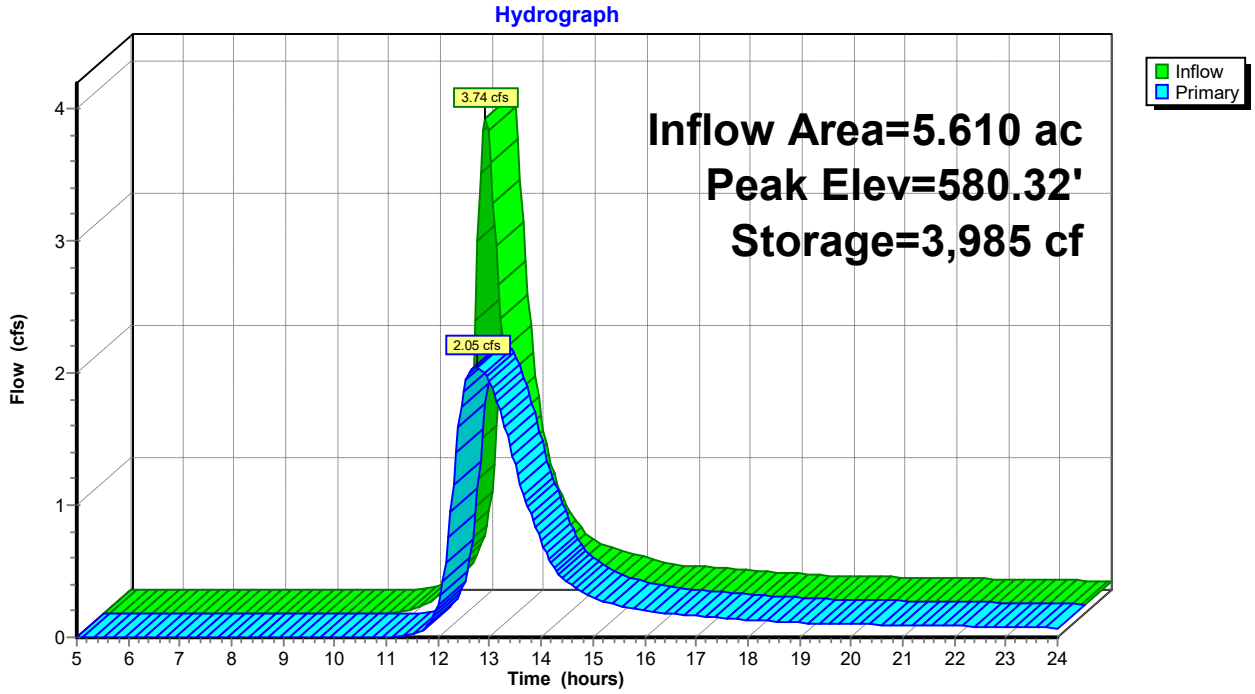
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
578.50	1,628	0	0
579.00	1,920	887	887
580.00	2,550	2,235	3,122
581.00	3,220	2,885	6,007
582.00	3,960	3,590	9,597
583.00	4,760	4,360	13,957
584.00	11,860	8,310	22,267
585.00	13,280	12,570	34,837

Device	Routing	Invert	Outlet Devices
#1	Device 4	578.51'	**8.0" Round Culvert** L= 16.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.51' / 578.45' S= 0.0037 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.35 sf
#2	Device 4	583.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 4	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	578.34'	**18.0" Round Culvert** L= 34.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.34' / 578.21' S= 0.0038 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

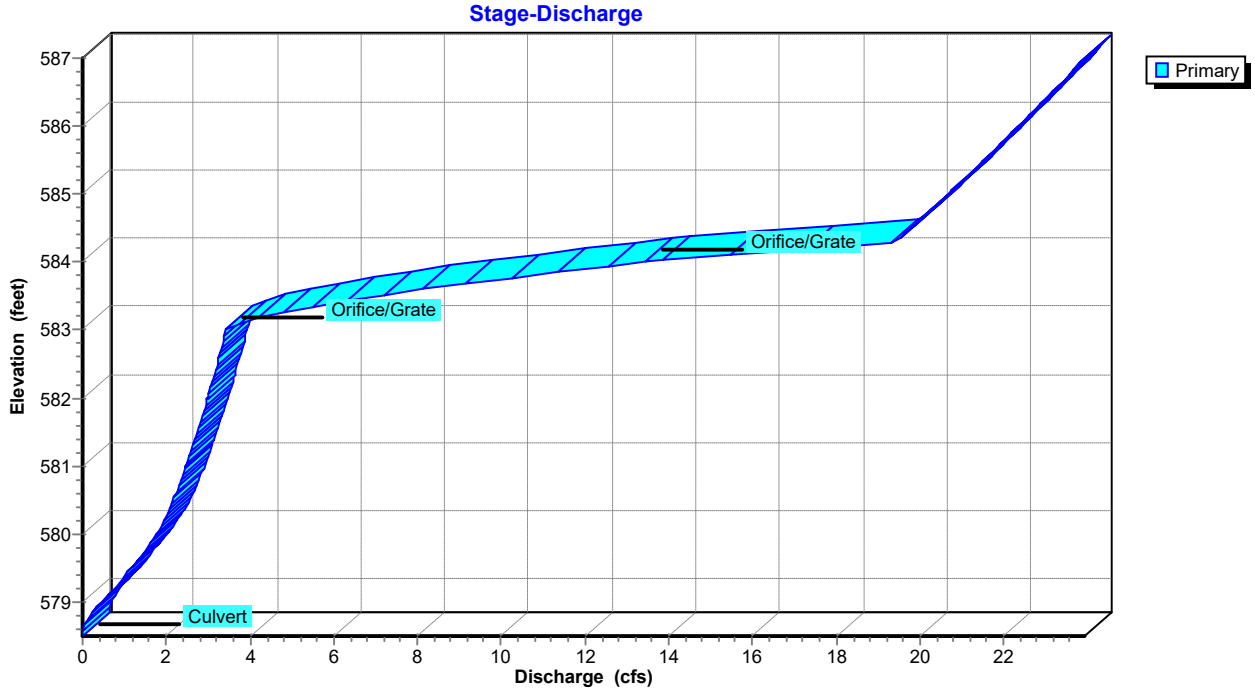
Primary OutFlow Max=2.04 cfs @ 12.74 hrs HW=580.32' (Free Discharge)
└**4=Culvert** (Passes 2.04 cfs of 7.94 cfs potential flow)
  ├**1=Culvert** (Inlet Controls 2.04 cfs @ 5.86 fps)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  └**3=Orifice/Grate** (Controls 0.00 cfs)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Pond 3P: Pond

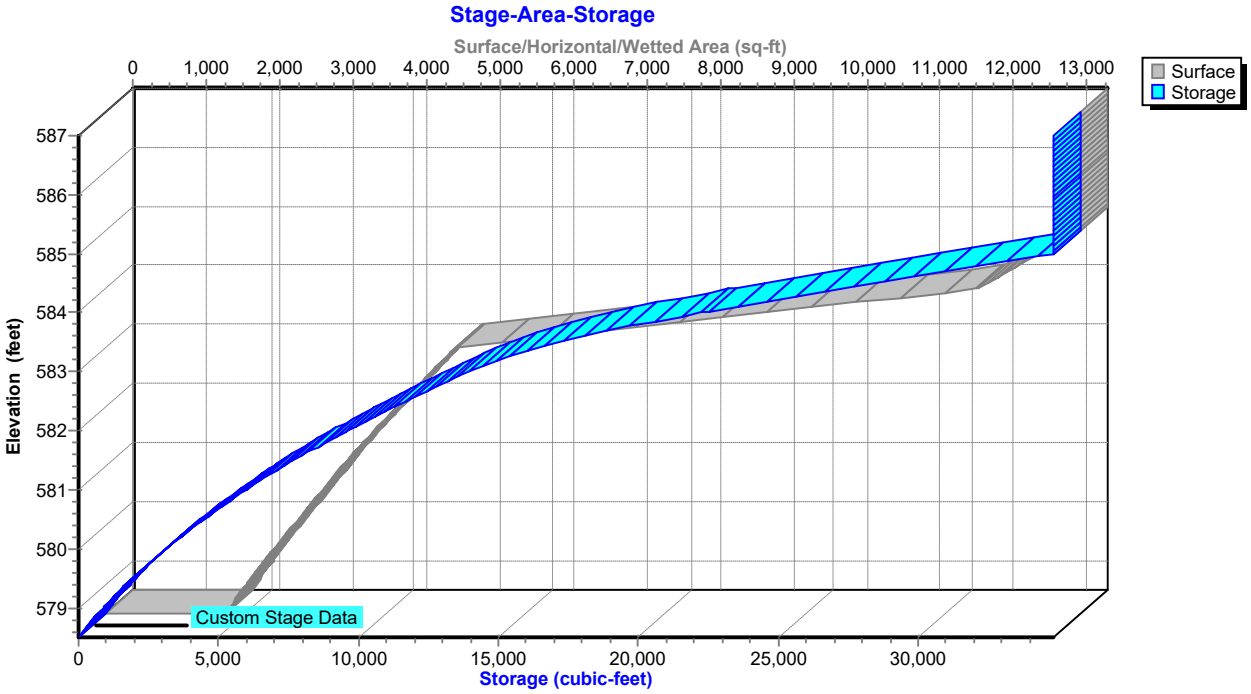


Pond 3P: Pond



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Pond 3P: Pond



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Pond 3P: Pond

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
5.00	0.00	0	578.50	0.00
5.50	0.00	0	578.50	0.00
6.00	0.00	0	578.50	0.00
6.50	0.00	0	578.50	0.00
7.00	0.00	0	578.50	0.00
7.50	0.00	0	578.50	0.00
8.00	0.00	0	578.50	0.00
8.50	0.00	0	578.50	0.00
9.00	0.00	0	578.50	0.00
9.50	0.00	0	578.50	0.00
10.00	0.00	0	578.50	0.00
10.50	0.00	1	578.50	0.00
11.00	0.04	30	578.52	0.00
11.50	0.15	163	578.60	0.02
12.00	**0.74**	611	578.85	0.24
12.50	**3.41**	**3,384**	**580.10**	**1.86**
13.00	1.20	**3,583**	**580.18**	**1.93**
13.50	0.60	2,154	579.60	1.30
14.00	0.38	1,213	579.17	0.73
14.50	0.30	835	578.97	0.42
15.00	0.24	690	578.90	0.30
15.50	0.20	599	578.85	0.24
16.00	0.18	544	578.82	0.20
16.50	0.16	510	578.80	0.18
17.00	0.15	484	578.78	0.16
17.50	0.13	461	578.77	0.15
18.00	0.12	438	578.76	0.13
18.50	0.11	414	578.74	0.12
19.00	0.10	395	578.73	0.11
19.50	0.10	383	578.73	0.10
20.00	0.10	373	578.72	0.10
20.50	0.09	365	578.72	0.10
21.00	0.09	358	578.71	0.09
21.50	0.08	350	578.71	0.09
22.00	0.08	343	578.70	0.08
22.50	0.08	335	578.70	0.08
23.00	0.07	328	578.69	0.08
23.50	0.07	320	578.69	0.07
24.00	0.07	313	578.69	0.07

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stage-Discharge for Pond 3P: Pond

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
578.50	0.00	581.35	2.66	584.20	17.41
578.55	0.00	581.40	2.69	584.25	18.57
578.60	0.02	581.45	2.71	584.30	19.42
578.65	0.04	581.50	2.74	584.35	19.51
578.70	0.08	581.55	2.77	584.40	19.61
578.75	0.12	581.60	2.79	584.45	19.70
578.80	0.18	581.65	2.82	584.50	19.79
578.85	0.24	581.70	2.84	584.55	19.88
578.90	0.31	581.75	2.87	584.60	19.97
578.95	0.38	581.80	2.89	584.65	20.06
579.00	0.46	581.85	2.91	584.70	20.15
579.05	0.54	581.90	2.94	584.75	20.24
579.10	0.62	581.95	2.96	584.80	20.33
579.15	0.70	582.00	2.99	584.85	20.42
579.20	0.78	582.05	3.01	584.90	20.51
579.25	0.86	582.10	3.03	584.95	20.60
579.30	0.93	582.15	3.06	585.00	20.69
579.35	0.98	582.20	3.08	585.05	20.77
579.40	1.00	582.25	3.10	585.10	20.86
579.45	1.08	582.30	3.12	585.15	20.95
579.50	1.16	582.35	3.15	585.20	21.03
579.55	1.23	582.40	3.17	585.25	21.12
579.60	1.30	582.45	3.19	585.30	21.20
579.65	1.37	582.50	3.21	585.35	21.29
579.70	1.43	582.55	3.24	585.40	21.37
579.75	1.49	582.60	3.26	585.45	21.46
579.80	1.55	582.65	3.28	585.50	21.54
579.85	1.60	582.70	3.30	585.55	21.63
579.90	1.66	582.75	3.32	585.60	21.71
579.95	1.71	582.80	3.34	585.65	21.79
580.00	1.76	582.85	3.36	585.70	21.88
580.05	1.81	582.90	3.39	585.75	21.96
580.10	1.86	582.95	3.41	585.80	22.04
580.15	1.90	583.00	3.43	585.85	22.12
580.20	1.95	583.05	3.55	585.90	22.20
580.25	1.99	583.10	3.77	585.95	22.29
580.30	2.03	583.15	4.05	586.00	22.37
580.35	2.06	583.20	4.37	586.05	22.45
580.40	2.10	583.25	4.73	586.10	22.53
580.45	2.13	583.30	5.13	586.15	22.61
580.50	2.16	583.35	5.56	586.20	22.69
580.55	2.20	583.40	6.02	586.25	22.77
580.60	2.23	583.45	6.51	586.30	22.85
580.65	2.26	583.50	7.03	586.35	22.93
580.70	2.29	583.55	7.57	586.40	23.01
580.75	2.32	583.60	8.14	586.45	23.08
580.80	2.35	583.65	8.73	586.50	23.16
580.85	2.38	583.70	9.34	586.55	23.24
580.90	2.41	583.75	9.98	586.60	23.32
580.95	2.44	583.80	10.63	586.65	23.40
581.00	2.47	583.85	11.31	586.70	23.47
581.05	2.50	583.90	12.00	586.75	23.55
581.10	2.52	583.95	12.71	586.80	23.63
581.15	2.55	584.00	13.45	586.85	23.70
581.20	2.58	584.05	14.30	586.90	23.78
581.25	2.61	584.10	15.27	586.95	23.85
581.30	2.63	584.15	16.31	587.00	**23.93**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stage-Area-Storage for Pond 3P: Pond

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
578.50	1,628	0
578.60	1,686	166
578.70	1,745	337
578.80	1,803	515
578.90	1,862	698
579.00	1,920	887
579.10	1,983	1,082
579.20	2,046	1,284
579.30	2,109	1,491
579.40	2,172	1,705
579.50	2,235	1,926
579.60	2,298	2,152
579.70	2,361	2,385
579.80	2,424	2,625
579.90	2,487	2,870
580.00	2,550	3,122
580.10	2,617	3,380
580.20	2,684	3,645
580.30	2,751	3,917
580.40	2,818	4,196
580.50	2,885	4,481
580.60	2,952	4,773
580.70	3,019	5,071
580.80	3,086	5,376
580.90	3,153	5,688
581.00	3,220	6,007
581.10	3,294	6,333
581.20	3,368	6,666
581.30	3,442	7,006
581.40	3,516	7,354
581.50	3,590	7,710
581.60	3,664	8,072
581.70	3,738	8,442
581.80	3,812	8,820
581.90	3,886	9,205
582.00	3,960	9,597
582.10	4,040	9,997
582.20	4,120	10,405
582.30	4,200	10,821
582.40	4,280	11,245
582.50	4,360	11,677
582.60	4,440	12,117
582.70	4,520	12,565
582.80	4,600	13,021
582.90	4,680	13,485
583.00	4,760	13,957
583.10	5,470	14,469
583.20	6,180	15,051
583.30	6,890	15,704
583.40	7,600	16,429
583.50	8,310	17,225
583.60	9,020	18,091
583.70	9,730	19,029
583.80	10,440	20,037
583.90	11,150	21,116
584.00	11,860	22,267
584.10	12,002	23,460
584.20	12,144	24,667
584.30	12,286	25,889
584.40	12,428	27,125
584.50	12,570	28,375
584.60	12,712	29,639
584.70	12,854	30,917
584.80	12,996	32,209
584.90	13,138	33,516
585.00	**13,280**	**34,837**
585.10	13,280	34,837
585.20	13,280	34,837
585.30	13,280	34,837
585.40	13,280	34,837
585.50	13,280	34,837
585.60	13,280	34,837
585.70	13,280	34,837
585.80	13,280	34,837
585.90	13,280	34,837
586.00	13,280	34,837
586.10	13,280	34,837
586.20	13,280	34,837
586.30	13,280	34,837
586.40	13,280	34,837
586.50	13,280	34,837
586.60	13,280	34,837
586.70	13,280	34,837
586.80	13,280	34,837
586.90	13,280	34,837
587.00	13,280	34,837

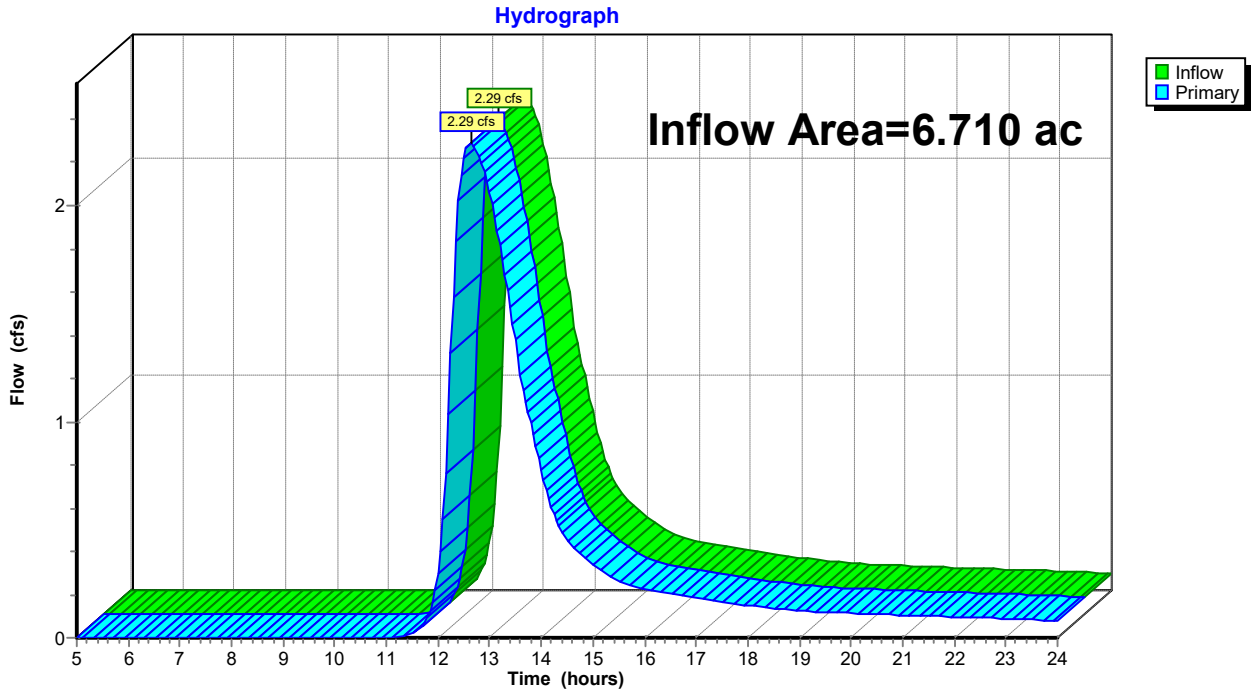
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Link 12L: POST DEV

Inflow Area = 6.710 ac, 32.97% Impervious, Inflow Depth > 0.74" for 1-Year event
Inflow = 2.29 cfs @ 12.63 hrs, Volume= 0.411 af
Primary = 2.29 cfs @ 12.63 hrs, Volume= 0.411 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs

Link 12L: POST DEV



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Link 12L: POST DEV

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.00	0.00	**0.00**	0.00	19.25	0.12	0.00	0.12
5.25	0.00	0.00	0.00	19.50	0.12	0.00	0.12
5.50	0.00	0.00	0.00	19.75	0.12	0.00	0.12
5.75	0.00	0.00	0.00	20.00	0.11	0.00	0.11
6.00	0.00	0.00	0.00	20.25	0.11	0.00	0.11
6.25	0.00	0.00	0.00	20.50	0.11	0.00	0.11
6.50	0.00	0.00	0.00	20.75	0.11	0.00	0.11
6.75	0.00	0.00	0.00	21.00	0.11	0.00	0.11
7.00	0.00	0.00	0.00	21.25	0.10	0.00	0.10
7.25	0.00	0.00	0.00	21.50	0.10	0.00	0.10
7.50	0.00	0.00	0.00	21.75	0.10	0.00	0.10
7.75	0.00	0.00	0.00	22.00	0.10	0.00	0.10
8.00	0.00	0.00	0.00	22.25	0.09	0.00	0.09
8.25	0.00	0.00	0.00	22.50	0.09	0.00	0.09
8.50	0.00	0.00	0.00	22.75	0.09	0.00	0.09
8.75	0.00	0.00	0.00	23.00	0.09	0.00	0.09
9.00	0.00	0.00	0.00	23.25	0.09	0.00	0.09
9.25	0.00	0.00	0.00	23.50	0.08	0.00	0.08
9.50	0.00	0.00	0.00	23.75	0.08	0.00	0.08
9.75	0.00	0.00	0.00	24.00	0.08	0.00	0.08
10.00	0.00	0.00	0.00				
10.25	0.00	0.00	0.00				
10.50	0.00	0.00	0.00				
10.75	0.00	0.00	0.00				
11.00	0.00	0.00	0.00				
11.25	0.01	0.00	0.01				
11.50	0.02	0.00	0.02				
11.75	0.07	0.00	0.07				
12.00	0.29	0.00	0.29				
12.25	1.32	0.00	1.32				
12.50	**2.22**	0.00	**2.22**				
12.75	**2.26**	0.00	**2.26**				
13.00	2.06	0.00	2.06				
13.25	1.75	0.00	1.75				
13.50	1.38	0.00	1.38				
13.75	1.05	0.00	1.05				
14.00	0.78	0.00	0.78				
14.25	0.57	0.00	0.57				
14.50	0.46	0.00	0.46				
14.75	0.39	0.00	0.39				
15.00	0.34	0.00	0.34				
15.25	0.30	0.00	0.30				
15.50	0.26	0.00	0.26				
15.75	0.24	0.00	0.24				
16.00	0.22	0.00	0.22				
16.25	0.21	0.00	0.21				
16.50	0.20	0.00	0.20				
16.75	0.19	0.00	0.19				
17.00	0.18	0.00	0.18				
17.25	0.17	0.00	0.17				
17.50	0.17	0.00	0.17				
17.75	0.16	0.00	0.16				
18.00	0.15	0.00	0.15				
18.25	0.14	0.00	0.14				
18.50	0.14	0.00	0.14				
18.75	0.13	0.00	0.13				
19.00	0.13	0.00	0.13				

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Time span=5.00-24.00 hrs, dt=0.05 hrs, 381 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 2S: DA POST DEV - Runoff Area=5.610 ac 39.44% Impervious Runoff Depth>1.85"
Flow Length=860' Tc=27.1 min CN=87 Runoff=8.76 cfs 0.866 af

Subcatchment 11S: DA Post - DEV Runoff Area=1.100 ac 0.00% Impervious Runoff Depth>1.35"
Flow Length=370' Slope=0.0100 '/' Tc=22.0 min CN=80 Runoff=1.37 cfs 0.124 af

Pond 3P: Pond Peak Elev=582.58' Storage=12,044 cf Inflow=8.76 cfs 0.866 af
Outflow=3.25 cfs 0.856 af

Link 12L: POST DEV Inflow=3.99 cfs 0.980 af
Primary=3.99 cfs 0.980 af

Total Runoff Area = 6.710 ac Runoff Volume = 0.990 af Average Runoff Depth = 1.77"
67.03% Pervious = 4.497 ac 32.97% Impervious = 2.213 ac

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 2S: DA POST DEV - CONTROLLED

[47] Hint: Peak is 389% of capacity of segment #3

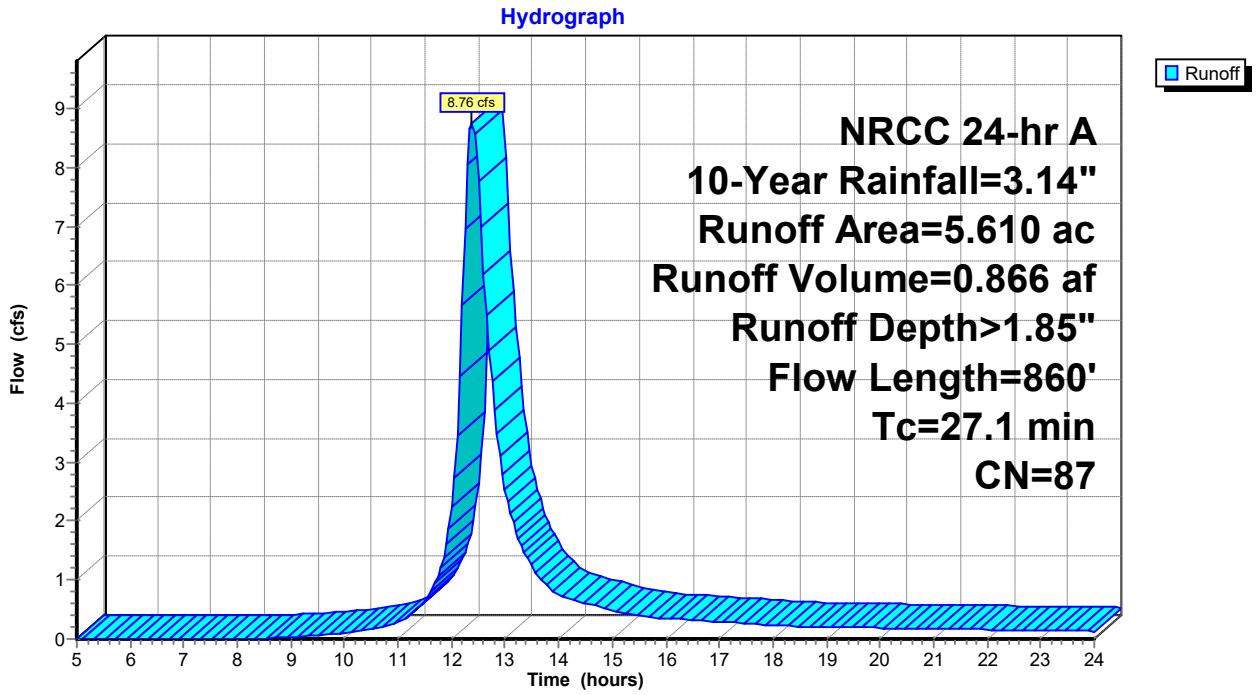
Runoff = 8.76 cfs @ 12.38 hrs, Volume= 0.866 af, Depth> 1.85"
Routed to Pond 3P : Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.970	98	Paved parking, HSG D
3.270	87	1/4 acre lots, 38% imp, HSG D
1.370	80	>75% Grass cover, Good, HSG D
5.610	87	Weighted Average
3.397		60.56% Pervious Area
2.213		39.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.7	100	0.0100	0.07		**Sheet Flow, SF** Grass: Dense n= 0.240 P2= 2.20"
0.1	20	0.0200	2.28		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
4.3	740	0.0040	2.87	2.25	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Concrete pipe, straight & clean
27.1	860	Total			

Subcatchment 2S: DA POST DEV - CONTROLLED



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 2S: DA POST DEV - CONTROLLED

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.16	0.00	0.00
5.25	0.17	0.00	0.00
5.50	0.18	0.00	0.00
5.75	0.19	0.00	0.00
6.00	0.20	0.00	0.00
6.25	0.21	0.00	0.00
6.50	0.22	0.00	0.00
6.75	0.24	0.00	0.00
7.00	0.25	0.00	0.00
7.25	0.26	0.00	0.00
7.50	0.28	0.00	0.00
7.75	0.29	0.00	0.00
8.00	0.31	0.00	0.00
8.25	0.33	0.00	0.00
8.50	0.35	0.00	0.01
8.75	0.36	0.00	0.02
9.00	0.38	0.00	0.03
9.25	0.41	0.01	0.04
9.50	0.43	0.01	0.06
9.75	0.46	0.02	0.08
10.00	0.49	0.02	0.10
10.25	0.52	0.03	0.13
10.50	0.56	0.04	0.17
10.75	0.61	0.05	0.21
11.00	0.66	0.07	0.30
11.25	0.74	0.10	0.43
11.50	0.84	0.15	0.65
11.75	1.03	0.24	1.07
12.00	1.48	0.52	2.24
12.25	2.11	0.99	**6.97**
12.50	2.30	1.14	**7.78**
12.75	2.40	1.23	4.36
13.00	2.48	1.29	2.54
13.25	2.53	1.34	1.70
13.50	2.58	1.38	1.22
13.75	2.62	1.41	0.93
14.00	2.65	1.44	0.76
14.25	2.68	1.46	0.67
14.50	2.71	1.49	0.60
14.75	2.73	1.51	0.54
15.00	2.76	1.53	0.49
15.25	2.78	1.54	0.43
15.50	2.79	1.56	0.39
15.75	2.81	1.58	0.37
16.00	2.83	1.59	0.35
16.25	2.85	1.60	0.34
16.50	2.86	1.62	0.32
16.75	2.88	1.63	0.31
17.00	2.89	1.64	0.29
17.25	2.90	1.66	0.28
17.50	2.92	1.67	0.26
17.75	2.93	1.68	0.25
18.00	2.94	1.69	0.24
18.25	2.95	1.70	0.22
18.50	2.96	1.70	0.21
18.75	2.97	1.71	0.20
19.00	2.98	1.72	0.20
19.25	2.99	1.73	0.20
19.50	3.00	1.74	0.19
19.75	3.01	1.75	0.19
20.00	3.02	1.75	0.19
20.25	3.03	1.76	0.18
20.50	3.04	1.77	0.18
20.75	3.04	1.78	0.18
21.00	3.05	1.79	0.17
21.25	3.06	1.79	0.17
21.50	3.07	1.80	0.16
21.75	3.08	1.81	0.16
22.00	3.08	1.81	0.16
22.25	3.09	1.82	0.15
22.50	3.10	1.83	0.15
22.75	3.11	1.83	0.15
23.00	3.11	1.84	0.14
23.25	3.12	1.84	0.14
23.50	3.13	1.85	0.14
23.75	3.13	1.86	0.13
24.00	**3.14**	**1.86**	0.13

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 11S: DA Post - DEV Uncontrolled

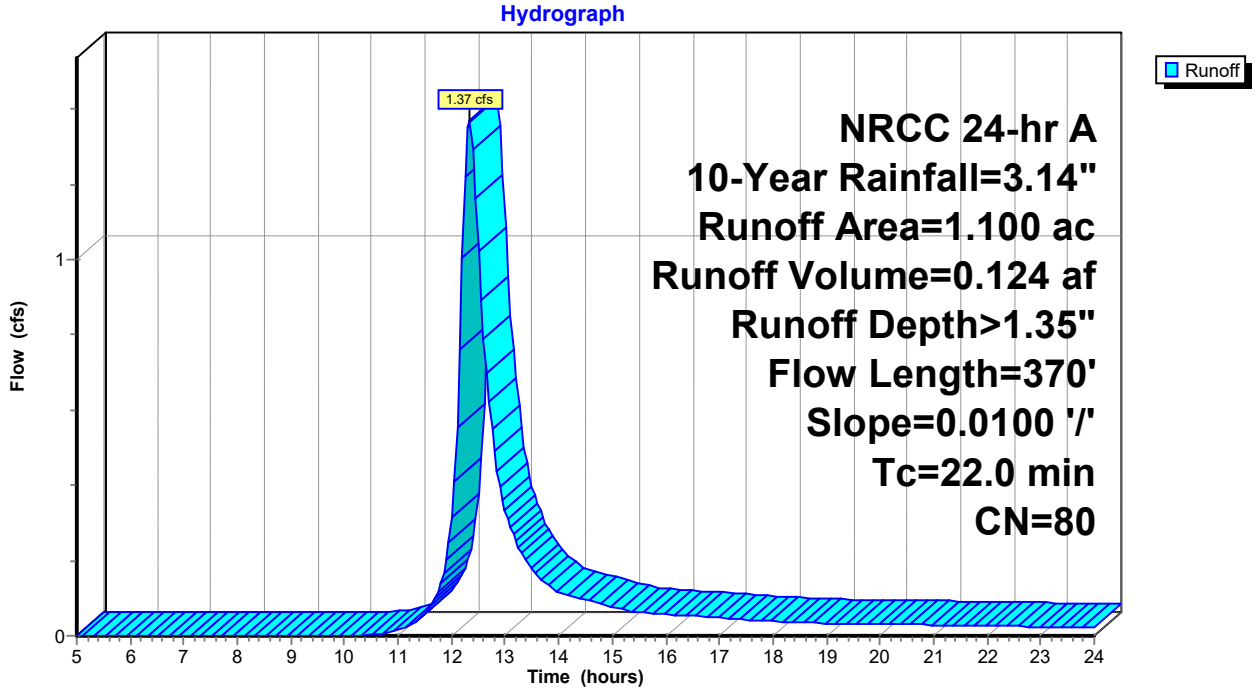
Runoff = 1.37 cfs @ 12.33 hrs, Volume= 0.124 af, Depth> 1.35"
Routed to Link 12L : POST DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 10-Year Rainfall=3.14"

Area (ac)	CN	Description
1.100	80	>75% Grass cover, Good, HSG D
1.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	100	0.0100	0.11		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
6.4	270	0.0100	0.70		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
22.0	370	Total			

Subcatchment 11S: DA Post - DEV Uncontrolled



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 11S: DA Post - DEV Uncontrolled

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.16	0.00	0.00
5.25	0.17	0.00	0.00
5.50	0.18	0.00	0.00
5.75	0.19	0.00	0.00
6.00	0.20	0.00	0.00
6.25	0.21	0.00	0.00
6.50	0.22	0.00	0.00
6.75	0.24	0.00	0.00
7.00	0.25	0.00	0.00
7.25	0.26	0.00	0.00
7.50	0.28	0.00	0.00
7.75	0.29	0.00	0.00
8.00	0.31	0.00	0.00
8.25	0.33	0.00	0.00
8.50	0.35	0.00	0.00
8.75	0.36	0.00	0.00
9.00	0.38	0.00	0.00
9.25	0.41	0.00	0.00
9.50	0.43	0.00	0.00
9.75	0.46	0.00	0.00
10.00	0.49	0.00	0.00
10.25	0.52	0.00	0.00
10.50	0.56	0.00	0.00
10.75	0.61	0.00	0.01
11.00	0.66	0.01	0.02
11.25	0.74	0.02	0.03
11.50	0.84	0.04	0.06
11.75	1.03	0.09	0.12
12.00	1.48	0.28	0.31
12.25	2.11	0.63	**1.22**
12.50	2.30	0.75	**1.02**
12.75	2.40	0.82	0.55
13.00	2.48	0.87	0.33
13.25	2.53	0.91	0.23
13.50	2.58	0.95	0.18
13.75	2.62	0.97	0.14
14.00	2.65	1.00	0.12
14.25	2.68	1.02	0.11
14.50	2.71	1.04	0.10
14.75	2.73	1.05	0.09
15.00	2.76	1.07	0.08
15.25	2.78	1.08	0.07
15.50	2.79	1.10	0.06
15.75	2.81	1.11	0.06
16.00	2.83	1.12	0.06
16.25	2.85	1.14	0.06
16.50	2.86	1.15	0.05
16.75	2.88	1.16	0.05
17.00	2.89	1.17	0.05
17.25	2.90	1.18	0.05
17.50	2.92	1.19	0.04
17.75	2.93	1.20	0.04
18.00	2.94	1.20	0.04
18.25	2.95	1.21	0.04
18.50	2.96	1.22	0.03
18.75	2.97	1.23	0.03
19.00	2.98	1.23	0.03
19.25	2.99	1.24	0.03
19.50	3.00	1.25	0.03
19.75	3.01	1.26	0.03
20.00	3.02	1.26	0.03
20.25	3.03	1.27	0.03
20.50	3.04	1.28	0.03
20.75	3.04	1.28	0.03
21.00	3.05	1.29	0.03
21.25	3.06	1.30	0.03
21.50	3.07	1.30	0.03
21.75	3.08	1.31	0.03
22.00	3.08	1.31	0.03
22.25	3.09	1.32	0.03
22.50	3.10	1.33	0.03
22.75	3.11	1.33	0.02
23.00	3.11	1.34	0.02
23.25	3.12	1.34	0.02
23.50	3.13	1.35	0.02
23.75	3.13	1.35	0.02
24.00	**3.14**	**1.36**	0.02

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Pond 3P: Pond

Inflow Area = 5.610 ac, 39.44% Impervious, Inflow Depth > 1.85" for 10-Year event
Inflow = 8.76 cfs @ 12.38 hrs, Volume= 0.866 af
Outflow = 3.25 cfs @ 12.88 hrs, Volume= 0.856 af, Atten= 63%, Lag= 29.8 min
Primary = 3.25 cfs @ 12.88 hrs, Volume= 0.856 af
Routed to Link 12L : POST DEV

Routing by Stor-Ind method, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 582.58' @ 12.88 hrs Surf.Area= 4,427 sf Storage= 12,044 cf

Plug-Flow detention time= 44.7 min calculated for 0.854 af (99% of inflow)
Center-of-Mass det. time= 37.8 min (864.4 - 826.5)

Volume	Invert	Avail.Storage	Storage Description
#1	578.50'	34,837 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

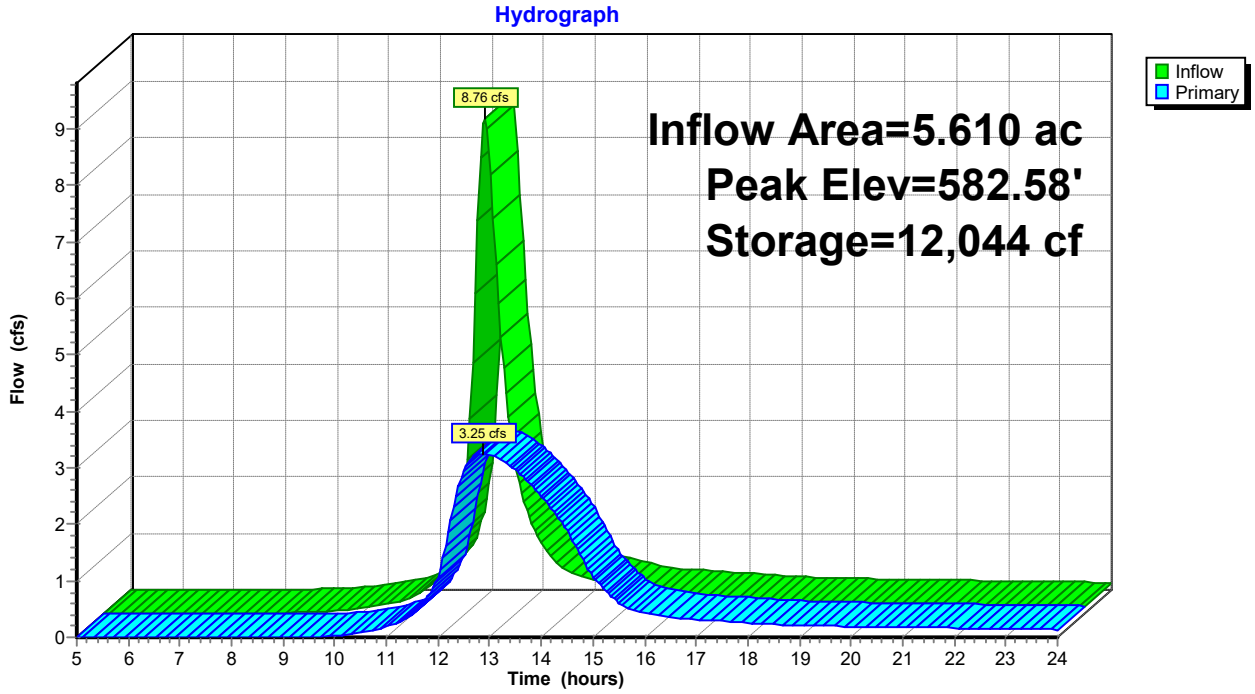
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
578.50	1,628	0	0
579.00	1,920	887	887
580.00	2,550	2,235	3,122
581.00	3,220	2,885	6,007
582.00	3,960	3,590	9,597
583.00	4,760	4,360	13,957
584.00	11,860	8,310	22,267
585.00	13,280	12,570	34,837

Device	Routing	Invert	Outlet Devices
#1	Device 4	578.51'	**8.0" Round Culvert** L= 16.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.51' / 578.45' S= 0.0037 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.35 sf
#2	Device 4	583.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 4	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	578.34'	**18.0" Round Culvert** L= 34.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.34' / 578.21' S= 0.0038 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

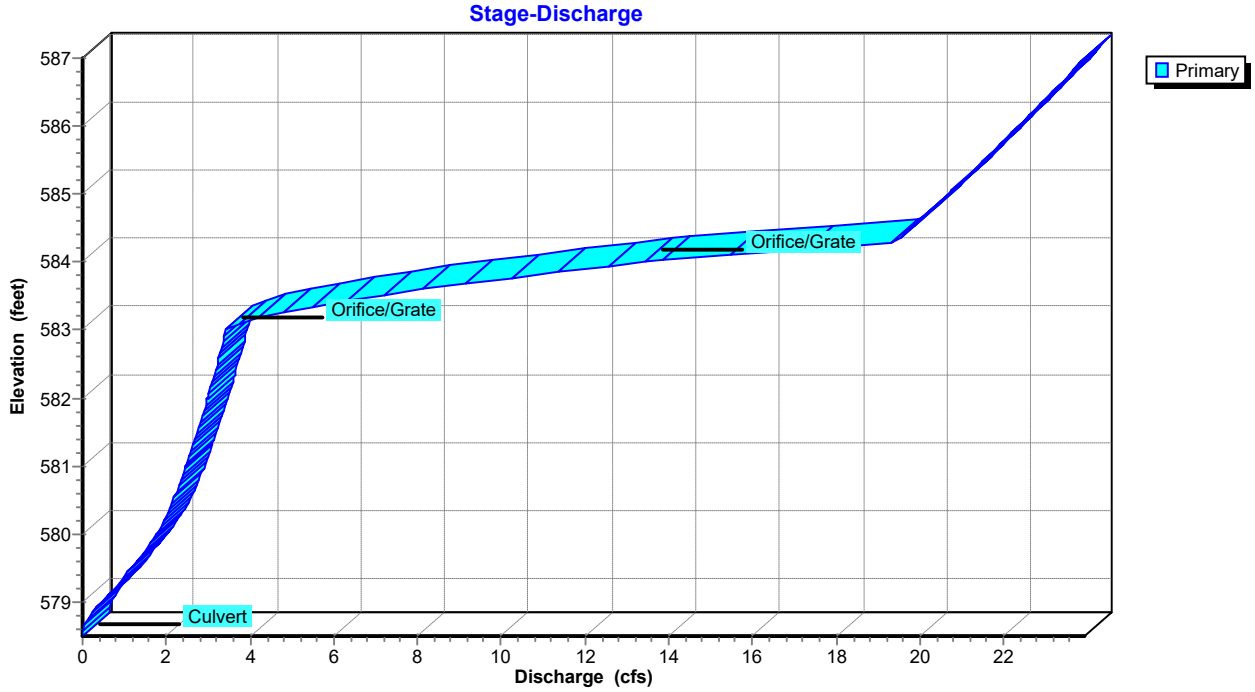
Primary OutFlow Max=3.25 cfs @ 12.88 hrs HW=582.58' (Free Discharge)
└**4=Culvert** (Passes 3.25 cfs of 15.90 cfs potential flow)
  └**1=Culvert** (Inlet Controls 3.25 cfs @ 9.31 fps)
  └**2=Orifice/Grate** (Controls 0.00 cfs)
  └**3=Orifice/Grate** (Controls 0.00 cfs)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Pond 3P: Pond

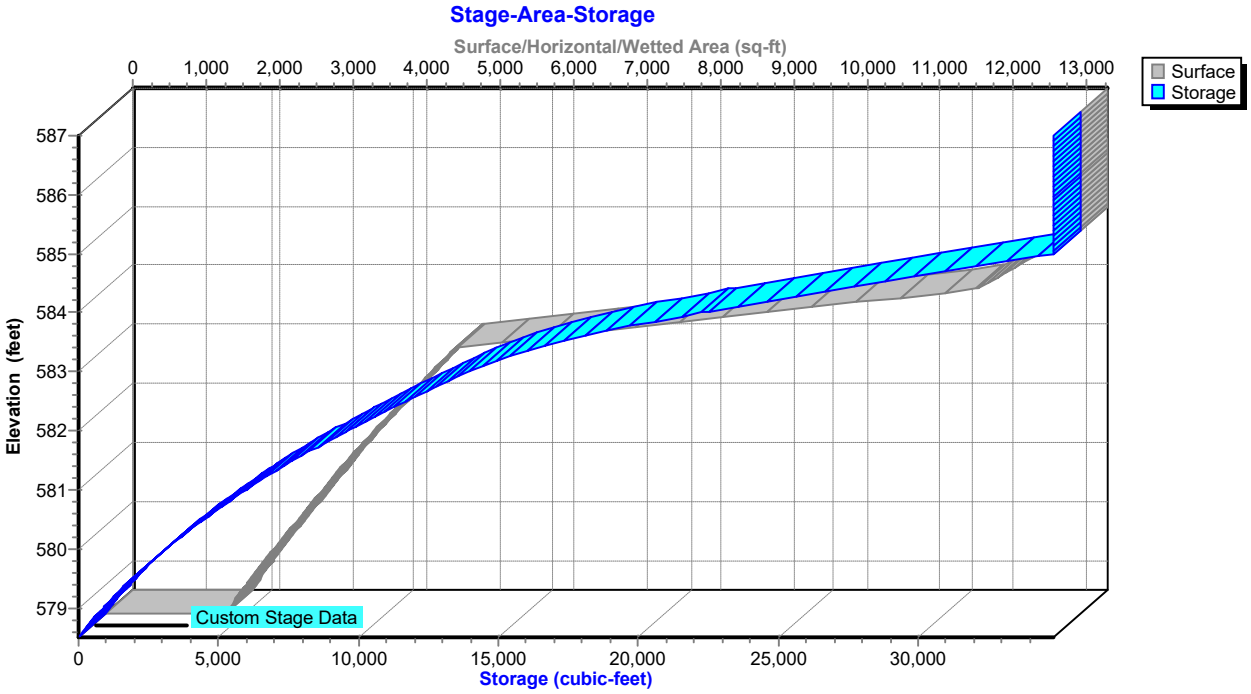


Pond 3P: Pond



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Pond 3P: Pond



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Pond 3P: Pond

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
5.00	0.00	0	578.50	0.00
5.50	0.00	0	578.50	0.00
6.00	0.00	0	578.50	0.00
6.50	0.00	0	578.50	0.00
7.00	0.00	0	578.50	0.00
7.50	0.00	0	578.50	0.00
8.00	0.00	0	578.50	0.00
8.50	0.01	6	578.50	0.00
9.00	0.03	39	578.52	0.00
9.50	0.06	103	578.56	0.01
10.00	0.10	210	578.63	0.03
10.50	0.17	349	578.71	0.09
11.00	0.30	515	578.80	0.18
11.50	0.65	823	578.97	0.41
12.00	**2.24**	1,751	579.42	1.04
12.50	**7.78**	**9,263**	**581.91**	**2.95**
13.00	2.54	**11,884**	**582.55**	**3.23**
13.50	1.22	9,430	581.96	2.97
14.00	0.76	6,200	581.06	2.50
14.50	0.60	3,434	580.12	1.88
15.00	0.49	1,781	579.43	1.06
15.50	0.39	1,070	579.09	0.61
16.00	0.35	839	578.97	0.42
16.50	0.32	756	578.93	0.35
17.00	0.29	709	578.91	0.32
17.50	0.26	667	578.88	0.29
18.00	0.24	628	578.86	0.26
18.50	0.21	590	578.84	0.23
19.00	0.20	563	578.83	0.21
19.50	0.19	546	578.82	0.20
20.00	0.19	533	578.81	0.19
20.50	0.18	521	578.80	0.19
21.00	0.17	510	578.80	0.18
21.50	0.16	499	578.79	0.17
22.00	0.16	487	578.78	0.16
22.50	0.15	476	578.78	0.16
23.00	0.14	464	578.77	0.15
23.50	0.14	453	578.77	0.14
24.00	0.13	441	578.76	0.13

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stage-Discharge for Pond 3P: Pond

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
578.50	0.00	581.35	2.66	584.20	17.41
578.55	0.00	581.40	2.69	584.25	18.57
578.60	0.02	581.45	2.71	584.30	19.42
578.65	0.04	581.50	2.74	584.35	19.51
578.70	0.08	581.55	2.77	584.40	19.61
578.75	0.12	581.60	2.79	584.45	19.70
578.80	0.18	581.65	2.82	584.50	19.79
578.85	0.24	581.70	2.84	584.55	19.88
578.90	0.31	581.75	2.87	584.60	19.97
578.95	0.38	581.80	2.89	584.65	20.06
579.00	0.46	581.85	2.91	584.70	20.15
579.05	0.54	581.90	2.94	584.75	20.24
579.10	0.62	581.95	2.96	584.80	20.33
579.15	0.70	582.00	2.99	584.85	20.42
579.20	0.78	582.05	3.01	584.90	20.51
579.25	0.86	582.10	3.03	584.95	20.60
579.30	0.93	582.15	3.06	585.00	20.69
579.35	0.98	582.20	3.08	585.05	20.77
579.40	1.00	582.25	3.10	585.10	20.86
579.45	1.08	582.30	3.12	585.15	20.95
579.50	1.16	582.35	3.15	585.20	21.03
579.55	1.23	582.40	3.17	585.25	21.12
579.60	1.30	582.45	3.19	585.30	21.20
579.65	1.37	582.50	3.21	585.35	21.29
579.70	1.43	582.55	3.24	585.40	21.37
579.75	1.49	582.60	3.26	585.45	21.46
579.80	1.55	582.65	3.28	585.50	21.54
579.85	1.60	582.70	3.30	585.55	21.63
579.90	1.66	582.75	3.32	585.60	21.71
579.95	1.71	582.80	3.34	585.65	21.79
580.00	1.76	582.85	3.36	585.70	21.88
580.05	1.81	582.90	3.39	585.75	21.96
580.10	1.86	582.95	3.41	585.80	22.04
580.15	1.90	583.00	3.43	585.85	22.12
580.20	1.95	583.05	3.55	585.90	22.20
580.25	1.99	583.10	3.77	585.95	22.29
580.30	2.03	583.15	4.05	586.00	22.37
580.35	2.06	583.20	4.37	586.05	22.45
580.40	2.10	583.25	4.73	586.10	22.53
580.45	2.13	583.30	5.13	586.15	22.61
580.50	2.16	583.35	5.56	586.20	22.69
580.55	2.20	583.40	6.02	586.25	22.77
580.60	2.23	583.45	6.51	586.30	22.85
580.65	2.26	583.50	7.03	586.35	22.93
580.70	2.29	583.55	7.57	586.40	23.01
580.75	2.32	583.60	8.14	586.45	23.08
580.80	2.35	583.65	8.73	586.50	23.16
580.85	2.38	583.70	9.34	586.55	23.24
580.90	2.41	583.75	9.98	586.60	23.32
580.95	2.44	583.80	10.63	586.65	23.40
581.00	2.47	583.85	11.31	586.70	23.47
581.05	2.50	583.90	12.00	586.75	23.55
581.10	2.52	583.95	12.71	586.80	23.63
581.15	2.55	584.00	13.45	586.85	23.70
581.20	2.58	584.05	14.30	586.90	23.78
581.25	2.61	584.10	15.27	586.95	23.85
581.30	2.63	584.15	16.31	587.00	**23.93**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stage-Area-Storage for Pond 3P: Pond

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
578.50	1,628	0
578.60	1,686	166
578.70	1,745	337
578.80	1,803	515
578.90	1,862	698
579.00	1,920	887
579.10	1,983	1,082
579.20	2,046	1,284
579.30	2,109	1,491
579.40	2,172	1,705
579.50	2,235	1,926
579.60	2,298	2,152
579.70	2,361	2,385
579.80	2,424	2,625
579.90	2,487	2,870
580.00	2,550	3,122
580.10	2,617	3,380
580.20	2,684	3,645
580.30	2,751	3,917
580.40	2,818	4,196
580.50	2,885	4,481
580.60	2,952	4,773
580.70	3,019	5,071
580.80	3,086	5,376
580.90	3,153	5,688
581.00	3,220	6,007
581.10	3,294	6,333
581.20	3,368	6,666
581.30	3,442	7,006
581.40	3,516	7,354
581.50	3,590	7,710
581.60	3,664	8,072
581.70	3,738	8,442
581.80	3,812	8,820
581.90	3,886	9,205
582.00	3,960	9,597
582.10	4,040	9,997
582.20	4,120	10,405
582.30	4,200	10,821
582.40	4,280	11,245
582.50	4,360	11,677
582.60	4,440	12,117
582.70	4,520	12,565
582.80	4,600	13,021
582.90	4,680	13,485
583.00	4,760	13,957
583.10	5,470	14,469
583.20	6,180	15,051
583.30	6,890	15,704
583.40	7,600	16,429
583.50	8,310	17,225
583.60	9,020	18,091
583.70	9,730	19,029
583.80	10,440	20,037
583.90	11,150	21,116
584.00	11,860	22,267
584.10	12,002	23,460
584.20	12,144	24,667
584.30	12,286	25,889
584.40	12,428	27,125
584.50	12,570	28,375
584.60	12,712	29,639
584.70	12,854	30,917
584.80	12,996	32,209
584.90	13,138	33,516
585.00	**13,280**	**34,837**
585.10	13,280	34,837
585.20	13,280	34,837
585.30	13,280	34,837
585.40	13,280	34,837
585.50	13,280	34,837
585.60	13,280	34,837
585.70	13,280	34,837
585.80	13,280	34,837
585.90	13,280	34,837
586.00	13,280	34,837
586.10	13,280	34,837
586.20	13,280	34,837
586.30	13,280	34,837
586.40	13,280	34,837
586.50	13,280	34,837
586.60	13,280	34,837
586.70	13,280	34,837
586.80	13,280	34,837
586.90	13,280	34,837
587.00	13,280	34,837

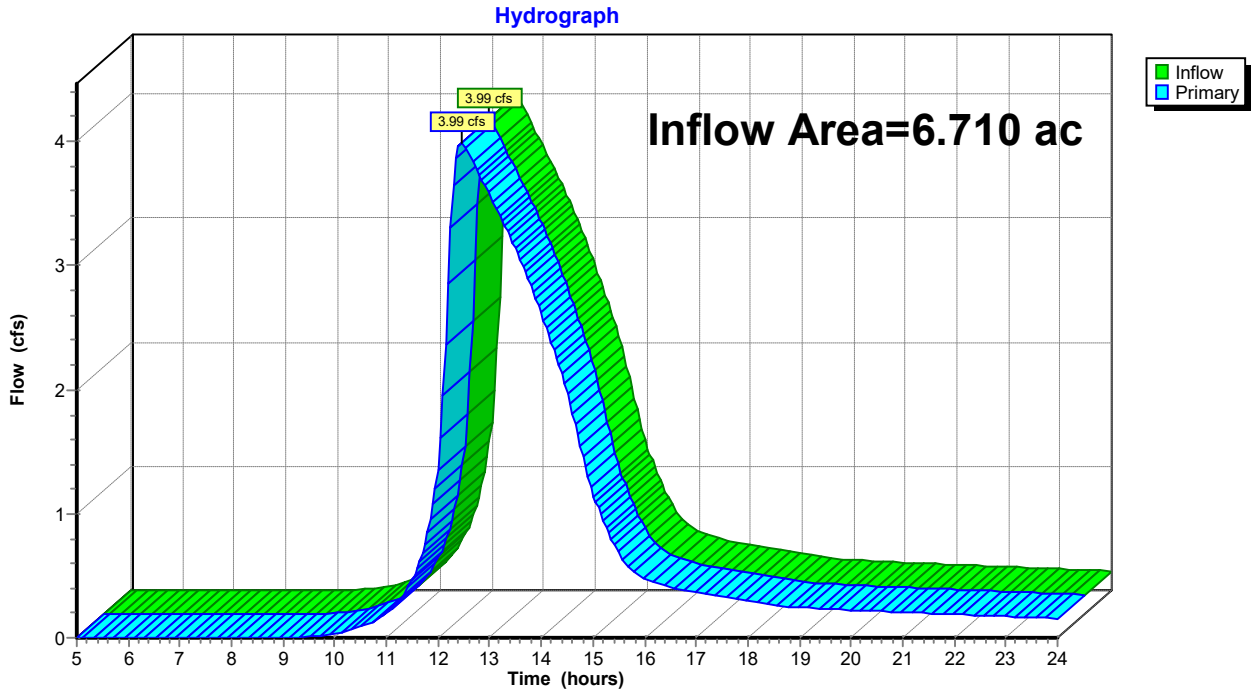
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Link 12L: POST DEV

Inflow Area = 6.710 ac, 32.97% Impervious, Inflow Depth > 1.75" for 10-Year event
Inflow = 3.99 cfs @ 12.45 hrs, Volume= 0.980 af
Primary = 3.99 cfs @ 12.45 hrs, Volume= 0.980 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs

Link 12L: POST DEV



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Link 12L: POST DEV

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.00	0.00	**0.00**	0.00	19.25	0.24	0.00	0.24
5.25	0.00	0.00	0.00	19.50	0.23	0.00	0.23
5.50	0.00	0.00	0.00	19.75	0.23	0.00	0.23
5.75	0.00	0.00	0.00	20.00	0.22	0.00	0.22
6.00	0.00	0.00	0.00	20.25	0.22	0.00	0.22
6.25	0.00	0.00	0.00	20.50	0.22	0.00	0.22
6.50	0.00	0.00	0.00	20.75	0.21	0.00	0.21
6.75	0.00	0.00	0.00	21.00	0.21	0.00	0.21
7.00	0.00	0.00	0.00	21.25	0.20	0.00	0.20
7.25	0.00	0.00	0.00	21.50	0.20	0.00	0.20
7.50	0.00	0.00	0.00	21.75	0.19	0.00	0.19
7.75	0.00	0.00	0.00	22.00	0.19	0.00	0.19
8.00	0.00	0.00	0.00	22.25	0.19	0.00	0.19
8.25	0.00	0.00	0.00	22.50	0.18	0.00	0.18
8.50	0.00	0.00	0.00	22.75	0.18	0.00	0.18
8.75	0.00	0.00	0.00	23.00	0.17	0.00	0.17
9.00	0.00	0.00	0.00	23.25	0.17	0.00	0.17
9.25	0.00	0.00	0.00	23.50	0.16	0.00	0.16
9.50	0.01	0.00	0.01	23.75	0.16	0.00	0.16
9.75	0.02	0.00	0.02	24.00	0.16	0.00	0.16
10.00	0.03	0.00	0.03				
10.25	0.05	0.00	0.05				
10.50	0.09	0.00	0.09				
10.75	0.13	0.00	0.13				
11.00	0.20	0.00	0.20				
11.25	0.30	0.00	0.30				
11.50	0.46	0.00	0.46				
11.75	0.76	0.00	0.76				
12.00	1.36	0.00	1.36				
12.25	**3.31**	0.00	**3.31**				
12.50	**3.97**	0.00	**3.97**				
12.75	3.78	0.00	3.78				
13.00	3.57	0.00	3.57				
13.25	3.37	0.00	3.37				
13.50	3.14	0.00	3.14				
13.75	2.89	0.00	2.89				
14.00	2.62	0.00	2.62				
14.25	2.32	0.00	2.32				
14.50	1.97	0.00	1.97				
14.75	1.55	0.00	1.55				
15.00	1.13	0.00	1.13				
15.25	0.89	0.00	0.89				
15.50	0.67	0.00	0.67				
15.75	0.55	0.00	0.55				
16.00	0.48	0.00	0.48				
16.25	0.43	0.00	0.43				
16.50	0.41	0.00	0.41				
16.75	0.38	0.00	0.38				
17.00	0.37	0.00	0.37				
17.25	0.35	0.00	0.35				
17.50	0.33	0.00	0.33				
17.75	0.31	0.00	0.31				
18.00	0.30	0.00	0.30				
18.25	0.28	0.00	0.28				
18.50	0.26	0.00	0.26				
18.75	0.25	0.00	0.25				
19.00	0.25	0.00	0.25				

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Time span=5.00-24.00 hrs, dt=0.05 hrs, 381 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 2S: DA POST DEV - Runoff Area=5.610 ac 39.44% Impervious Runoff Depth>2.48"
Flow Length=860' Tc=27.1 min CN=87 Runoff=11.67 cfs 1.159 af

Subcatchment 11S: DA Post - DEV Runoff Area=1.100 ac 0.00% Impervious Runoff Depth>1.90"
Flow Length=370' Slope=0.0100 '/' Tc=22.0 min CN=80 Runoff=1.95 cfs 0.174 af

Pond 3P: Pond Peak Elev=583.35' Storage=16,041 cf Inflow=11.67 cfs 1.159 af
Outflow=5.54 cfs 1.147 af

Link 12L: POST DEV Inflow=6.29 cfs 1.322 af
Primary=6.29 cfs 1.322 af

Total Runoff Area = 6.710 ac Runoff Volume = 1.333 af Average Runoff Depth = 2.38"
67.03% Pervious = 4.497 ac 32.97% Impervious = 2.213 ac

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 2S: DA POST DEV - CONTROLLED

[47] Hint: Peak is 518% of capacity of segment #3

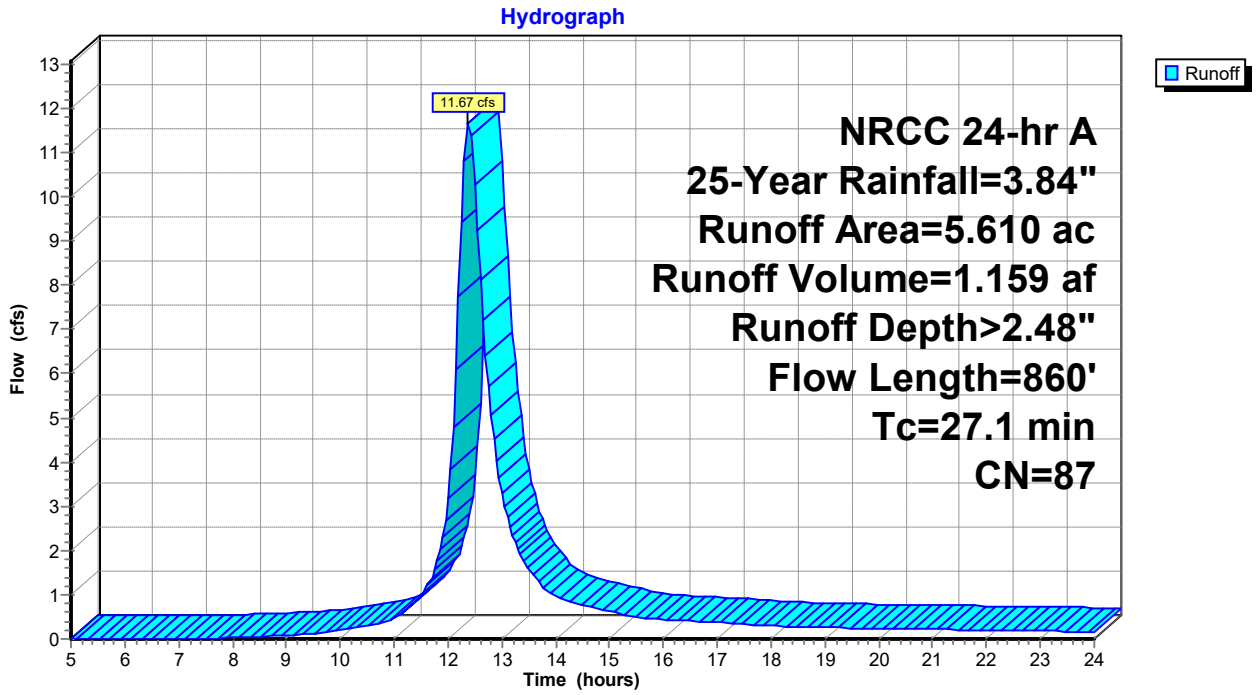
Runoff = 11.67 cfs @ 12.38 hrs, Volume= 1.159 af, Depth> 2.48"
Routed to Pond 3P : Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.970	98	Paved parking, HSG D
3.270	87	1/4 acre lots, 38% imp, HSG D
1.370	80	>75% Grass cover, Good, HSG D
5.610	87	Weighted Average
3.397		60.56% Pervious Area
2.213		39.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.7	100	0.0100	0.07		**Sheet Flow, SF** Grass: Dense n= 0.240 P2= 2.20"
0.1	20	0.0200	2.28		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
4.3	740	0.0040	2.87	2.25	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Concrete pipe, straight & clean
27.1	860	Total			

Subcatchment 2S: DA POST DEV - CONTROLLED



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 2S: DA POST DEV - CONTROLLED

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.20	0.00	0.00
5.25	0.21	0.00	0.00
5.50	0.22	0.00	0.00
5.75	0.23	0.00	0.00
6.00	0.25	0.00	0.00
6.25	0.26	0.00	0.00
6.50	0.27	0.00	0.00
6.75	0.29	0.00	0.00
7.00	0.31	0.00	0.00
7.25	0.32	0.00	0.00
7.50	0.34	0.00	0.01
7.75	0.36	0.00	0.02
8.00	0.38	0.00	0.03
8.25	0.40	0.01	0.04
8.50	0.42	0.01	0.05
8.75	0.45	0.01	0.06
9.00	0.47	0.02	0.08
9.25	0.50	0.02	0.10
9.50	0.53	0.03	0.12
9.75	0.56	0.04	0.15
10.00	0.60	0.05	0.19
10.25	0.64	0.06	0.24
10.50	0.68	0.08	0.29
10.75	0.74	0.10	0.36
11.00	0.81	0.13	0.48
11.25	0.91	0.18	0.67
11.50	1.03	0.24	0.99
11.75	1.26	0.38	1.57
12.00	1.81	0.76	3.17
12.25	2.58	1.38	**9.42**
12.50	2.81	1.57	**10.28**
12.75	2.93	1.68	5.70
13.00	3.03	1.76	3.29
13.25	3.10	1.83	2.18
13.50	3.16	1.88	1.57
13.75	3.20	1.92	1.20
14.00	3.24	1.95	0.97
14.25	3.28	1.99	0.85
14.50	3.31	2.02	0.77
14.75	3.34	2.04	0.69
15.00	3.37	2.07	0.62
15.25	3.39	2.09	0.55
15.50	3.42	2.11	0.50
15.75	3.44	2.13	0.47
16.00	3.46	2.15	0.45
16.25	3.48	2.16	0.43
16.50	3.50	2.18	0.41
16.75	3.52	2.20	0.39
17.00	3.53	2.21	0.37
17.25	3.55	2.23	0.35
17.50	3.57	2.24	0.34
17.75	3.58	2.25	0.32
18.00	3.59	2.27	0.30
18.25	3.61	2.28	0.28
18.50	3.62	2.29	0.27
18.75	3.63	2.30	0.26
19.00	3.64	2.31	0.25
19.25	3.66	2.32	0.25
19.50	3.67	2.33	0.25
19.75	3.68	2.34	0.24
20.00	3.69	2.35	0.24
20.25	3.70	2.36	0.23
20.50	3.71	2.37	0.23
20.75	3.72	2.38	0.22
21.00	3.73	2.39	0.22
21.25	3.74	2.40	0.21
21.50	3.75	2.41	0.21
21.75	3.76	2.42	0.20
22.00	3.77	2.43	0.20
22.25	3.78	2.44	0.19
22.50	3.79	2.45	0.19
22.75	3.80	2.45	0.19
23.00	3.81	2.46	0.18
23.25	3.82	2.47	0.18
23.50	3.82	2.48	0.17
23.75	3.83	2.48	0.17
24.00	**3.84**	**2.49**	0.16

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 11S: DA Post - DEV Uncontrolled

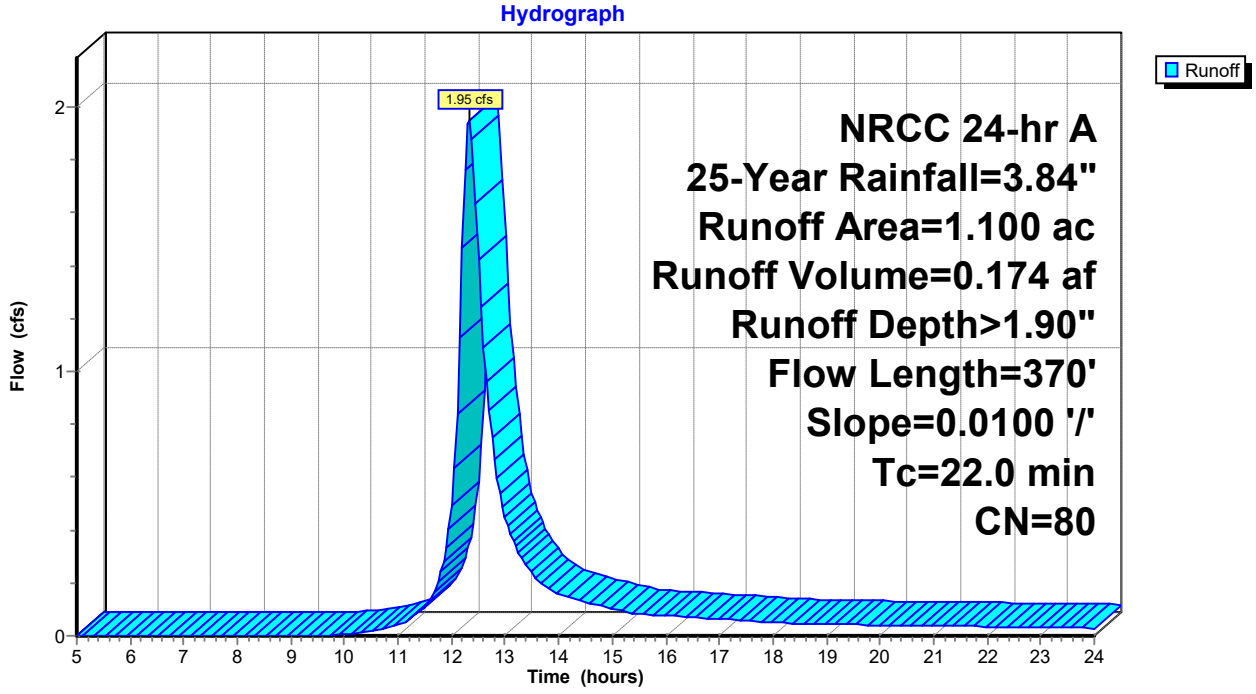
Runoff = 1.95 cfs @ 12.33 hrs, Volume= 0.174 af, Depth> 1.90"
Routed to Link 12L : POST DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 25-Year Rainfall=3.84"

Area (ac)	CN	Description
1.100	80	>75% Grass cover, Good, HSG D
1.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	100	0.0100	0.11		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
6.4	270	0.0100	0.70		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
22.0	370	Total			

Subcatchment 11S: DA Post - DEV Uncontrolled



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 11S: DA Post - DEV Uncontrolled

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.20	0.00	0.00
5.25	0.21	0.00	0.00
5.50	0.22	0.00	0.00
5.75	0.23	0.00	0.00
6.00	0.25	0.00	0.00
6.25	0.26	0.00	0.00
6.50	0.27	0.00	0.00
6.75	0.29	0.00	0.00
7.00	0.31	0.00	0.00
7.25	0.32	0.00	0.00
7.50	0.34	0.00	0.00
7.75	0.36	0.00	0.00
8.00	0.38	0.00	0.00
8.25	0.40	0.00	0.00
8.50	0.42	0.00	0.00
8.75	0.45	0.00	0.00
9.00	0.47	0.00	0.00
9.25	0.50	0.00	0.00
9.50	0.53	0.00	0.00
9.75	0.56	0.00	0.00
10.00	0.60	0.00	0.01
10.25	0.64	0.01	0.01
10.50	0.68	0.01	0.02
10.75	0.74	0.02	0.03
11.00	0.81	0.03	0.04
11.25	0.91	0.06	0.07
11.50	1.03	0.09	0.11
11.75	1.26	0.18	0.21
12.00	1.81	0.45	0.50
12.25	2.58	0.94	**1.76**
12.50	2.81	1.11	**1.42**
12.75	2.93	1.20	0.75
13.00	3.03	1.27	0.45
13.25	3.10	1.33	0.31
13.50	3.16	1.37	0.24
13.75	3.20	1.40	0.19
14.00	3.24	1.43	0.16
14.25	3.28	1.46	0.14
14.50	3.31	1.49	0.13
14.75	3.34	1.51	0.12
15.00	3.37	1.53	0.10
15.25	3.39	1.55	0.09
15.50	3.42	1.57	0.08
15.75	3.44	1.59	0.08
16.00	3.46	1.60	0.08
16.25	3.48	1.62	0.07
16.50	3.50	1.64	0.07
16.75	3.52	1.65	0.07
17.00	3.53	1.66	0.06
17.25	3.55	1.68	0.06
17.50	3.57	1.69	0.06
17.75	3.58	1.70	0.05
18.00	3.59	1.71	0.05
18.25	3.61	1.72	0.05
18.50	3.62	1.73	0.05
18.75	3.63	1.74	0.04
19.00	3.64	1.75	0.04
19.25	3.66	1.76	0.04
19.50	3.67	1.77	0.04
19.75	3.68	1.78	0.04
20.00	3.69	1.79	0.04
20.25	3.70	1.80	0.04
20.50	3.71	1.81	0.04
20.75	3.72	1.82	0.04
21.00	3.73	1.82	0.04
21.25	3.74	1.83	0.04
21.50	3.75	1.84	0.04
21.75	3.76	1.85	0.04
22.00	3.77	1.86	0.03
22.25	3.78	1.86	0.03
22.50	3.79	1.87	0.03
22.75	3.80	1.88	0.03
23.00	3.81	1.88	0.03
23.25	3.82	1.89	0.03
23.50	3.82	1.90	0.03
23.75	3.83	1.90	0.03
24.00	**3.84**	**1.91**	0.03

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Pond 3P: Pond

Inflow Area = 5.610 ac, 39.44% Impervious, Inflow Depth > 2.48" for 25-Year event
Inflow = 11.67 cfs @ 12.38 hrs, Volume= 1.159 af
Outflow = 5.54 cfs @ 12.77 hrs, Volume= 1.147 af, Atten= 53%, Lag= 23.1 min
Primary = 5.54 cfs @ 12.77 hrs, Volume= 1.147 af
Routed to Link 12L : POST DEV

Routing by Stor-Ind method, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 583.35' @ 12.77 hrs Surf.Area= 7,228 sf Storage= 16,041 cf

Plug-Flow detention time= 46.4 min calculated for 1.147 af (99% of inflow)
Center-of-Mass det. time= 40.6 min (860.3 - 819.7)

Volume	Invert	Avail.Storage	Storage Description
#1	578.50'	34,837 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

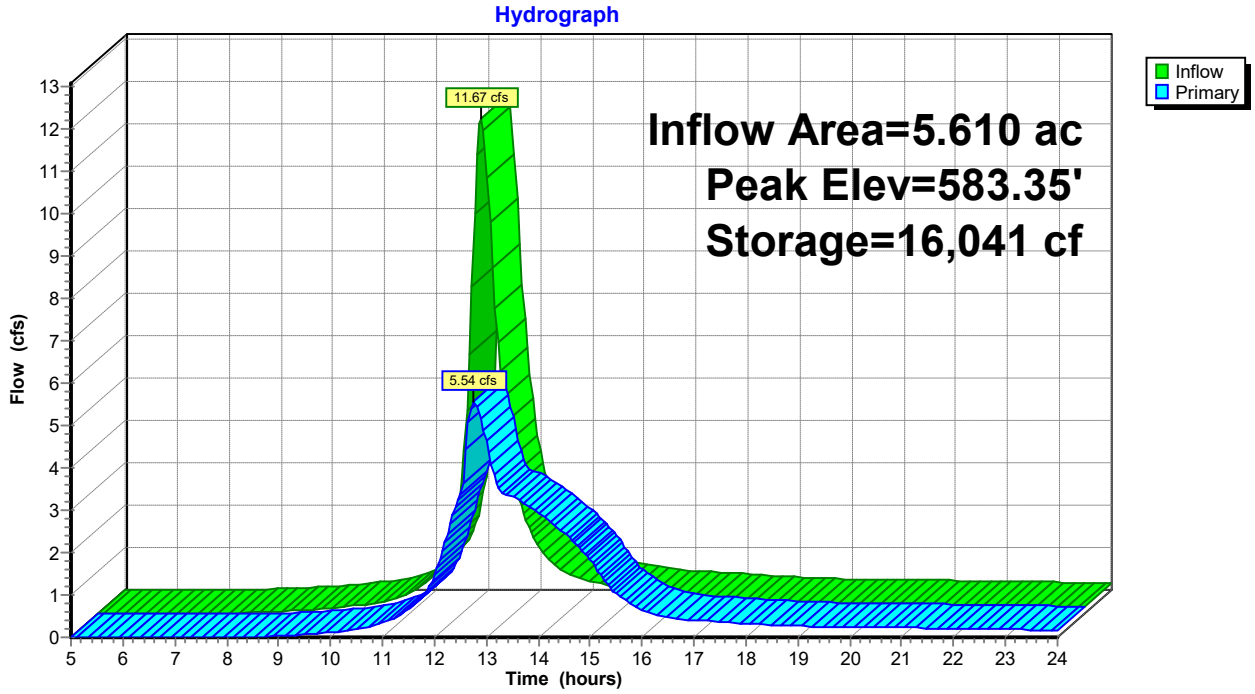
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
578.50	1,628	0	0
579.00	1,920	887	887
580.00	2,550	2,235	3,122
581.00	3,220	2,885	6,007
582.00	3,960	3,590	9,597
583.00	4,760	4,360	13,957
584.00	11,860	8,310	22,267
585.00	13,280	12,570	34,837

Device	Routing	Invert	Outlet Devices
#1	Device 4	578.51'	**8.0" Round Culvert** L= 16.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.51' / 578.45' S= 0.0037 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.35 sf
#2	Device 4	583.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 4	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	578.34'	**18.0" Round Culvert** L= 34.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.34' / 578.21' S= 0.0038 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

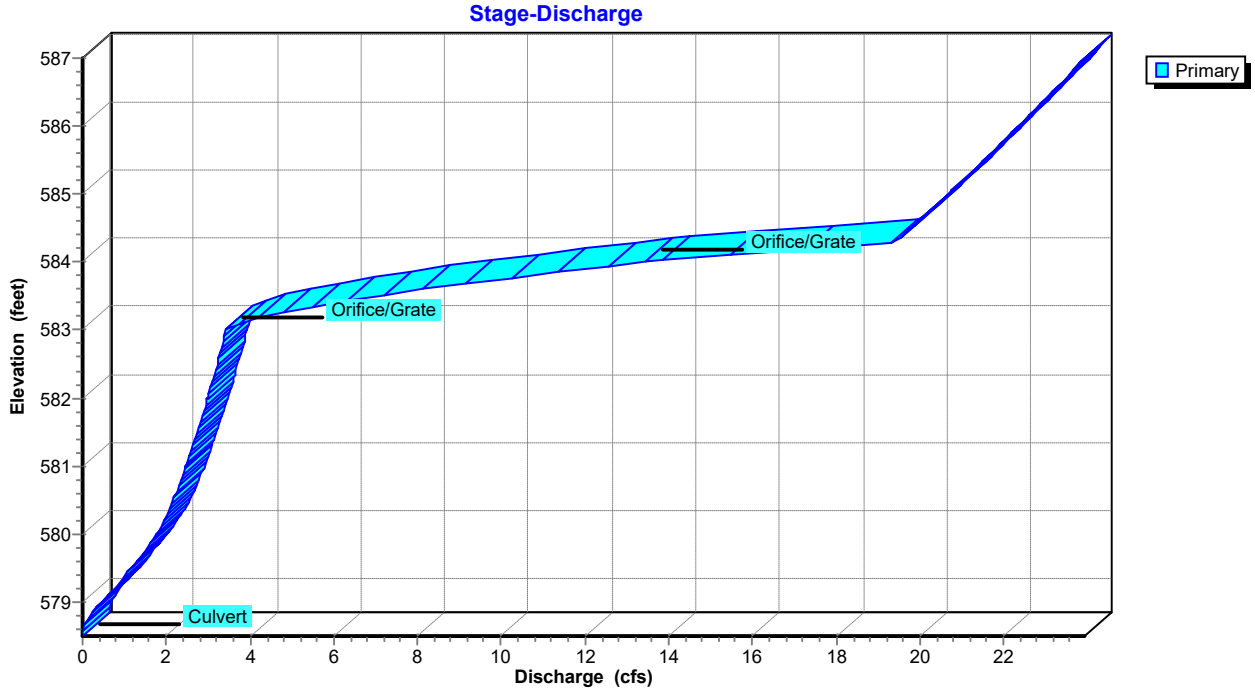
Primary OutFlow Max=5.52 cfs @ 12.77 hrs HW=583.35' (Free Discharge)
└**4=Culvert** (Passes 5.52 cfs of 17.55 cfs potential flow)
  ├**1=Culvert** (Inlet Controls 3.57 cfs @ 10.22 fps)
  ├**2=Orifice/Grate** (Orifice Controls 1.96 cfs @ 1.89 fps)
  └**3=Orifice/Grate** (Controls 0.00 cfs)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Pond 3P: Pond

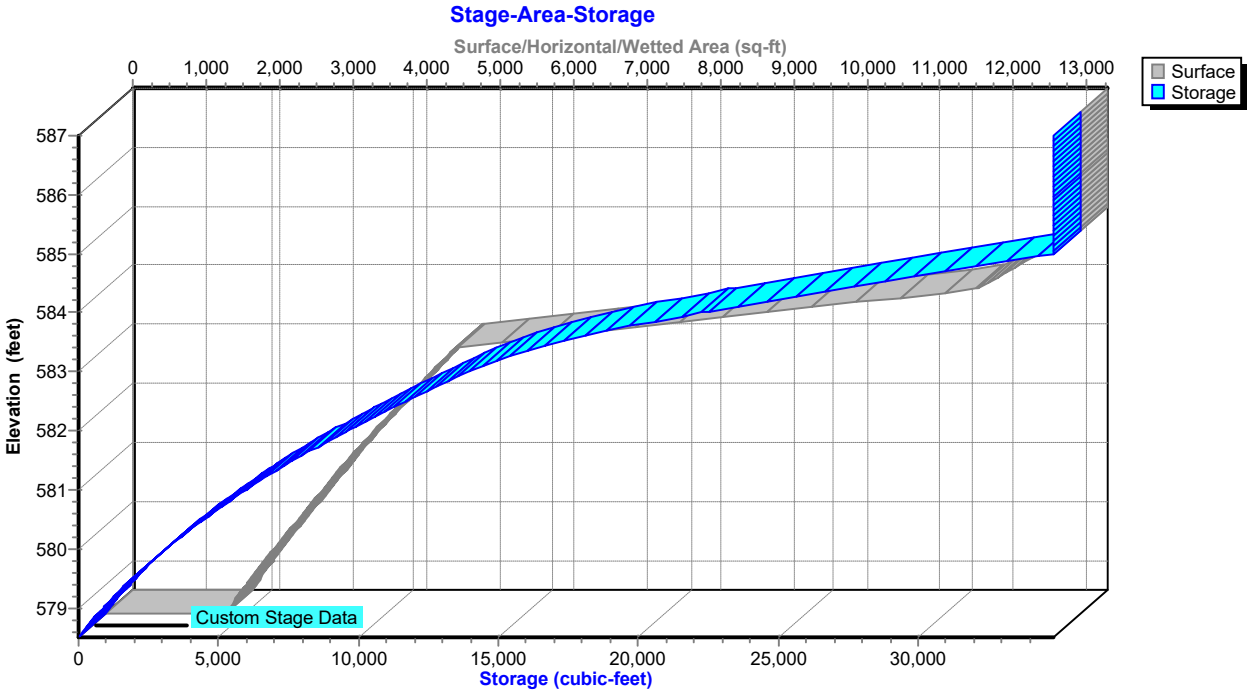


Pond 3P: Pond



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Pond 3P: Pond



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Pond 3P: Pond

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
5.00	0.00	0	578.50	0.00
5.50	0.00	0	578.50	0.00
6.00	0.00	0	578.50	0.00
6.50	0.00	0	578.50	0.00
7.00	0.00	0	578.50	0.00
7.50	0.01	4	578.50	0.00
8.00	0.03	33	578.52	0.00
8.50	0.05	95	578.56	0.01
9.00	0.08	187	578.61	0.03
9.50	0.12	288	578.67	0.06
10.00	0.19	411	578.74	0.12
10.50	0.29	556	578.82	0.21
11.00	0.48	739	578.92	0.34
11.50	0.99	1,132	579.12	0.66
12.00	**3.17**	2,485	579.74	1.48
12.50	**10.28**	**13,162**	**582.83**	**3.36**
13.00	3.29	**15,270**	**583.23**	**4.62**
13.50	1.57	12,698	582.73	3.31
14.00	0.97	9,243	581.91	2.94
14.50	0.77	5,916	580.97	2.45
15.00	0.62	3,283	580.06	1.82
15.50	0.50	1,729	579.41	1.04
16.00	0.45	1,094	579.11	0.63
16.50	0.41	901	579.01	0.47
17.00	0.37	822	578.97	0.41
17.50	0.34	769	578.94	0.36
18.00	0.30	721	578.91	0.33
18.50	0.27	673	578.89	0.29
19.00	0.25	641	578.87	0.27
19.50	0.25	623	578.86	0.25
20.00	0.24	609	578.85	0.24
20.50	0.23	596	578.84	0.23
21.00	0.22	584	578.84	0.22
21.50	0.21	570	578.83	0.22
22.00	0.20	556	578.82	0.21
22.50	0.19	541	578.81	0.20
23.00	0.18	527	578.81	0.19
23.50	0.17	512	578.80	0.18
24.00	0.16	497	578.79	0.17

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stage-Discharge for Pond 3P: Pond

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
578.50	0.00	581.35	2.66	584.20	17.41
578.55	0.00	581.40	2.69	584.25	18.57
578.60	0.02	581.45	2.71	584.30	19.42
578.65	0.04	581.50	2.74	584.35	19.51
578.70	0.08	581.55	2.77	584.40	19.61
578.75	0.12	581.60	2.79	584.45	19.70
578.80	0.18	581.65	2.82	584.50	19.79
578.85	0.24	581.70	2.84	584.55	19.88
578.90	0.31	581.75	2.87	584.60	19.97
578.95	0.38	581.80	2.89	584.65	20.06
579.00	0.46	581.85	2.91	584.70	20.15
579.05	0.54	581.90	2.94	584.75	20.24
579.10	0.62	581.95	2.96	584.80	20.33
579.15	0.70	582.00	2.99	584.85	20.42
579.20	0.78	582.05	3.01	584.90	20.51
579.25	0.86	582.10	3.03	584.95	20.60
579.30	0.93	582.15	3.06	585.00	20.69
579.35	0.98	582.20	3.08	585.05	20.77
579.40	1.00	582.25	3.10	585.10	20.86
579.45	1.08	582.30	3.12	585.15	20.95
579.50	1.16	582.35	3.15	585.20	21.03
579.55	1.23	582.40	3.17	585.25	21.12
579.60	1.30	582.45	3.19	585.30	21.20
579.65	1.37	582.50	3.21	585.35	21.29
579.70	1.43	582.55	3.24	585.40	21.37
579.75	1.49	582.60	3.26	585.45	21.46
579.80	1.55	582.65	3.28	585.50	21.54
579.85	1.60	582.70	3.30	585.55	21.63
579.90	1.66	582.75	3.32	585.60	21.71
579.95	1.71	582.80	3.34	585.65	21.79
580.00	1.76	582.85	3.36	585.70	21.88
580.05	1.81	582.90	3.39	585.75	21.96
580.10	1.86	582.95	3.41	585.80	22.04
580.15	1.90	583.00	3.43	585.85	22.12
580.20	1.95	583.05	3.55	585.90	22.20
580.25	1.99	583.10	3.77	585.95	22.29
580.30	2.03	583.15	4.05	586.00	22.37
580.35	2.06	583.20	4.37	586.05	22.45
580.40	2.10	583.25	4.73	586.10	22.53
580.45	2.13	583.30	5.13	586.15	22.61
580.50	2.16	583.35	5.56	586.20	22.69
580.55	2.20	583.40	6.02	586.25	22.77
580.60	2.23	583.45	6.51	586.30	22.85
580.65	2.26	583.50	7.03	586.35	22.93
580.70	2.29	583.55	7.57	586.40	23.01
580.75	2.32	583.60	8.14	586.45	23.08
580.80	2.35	583.65	8.73	586.50	23.16
580.85	2.38	583.70	9.34	586.55	23.24
580.90	2.41	583.75	9.98	586.60	23.32
580.95	2.44	583.80	10.63	586.65	23.40
581.00	2.47	583.85	11.31	586.70	23.47
581.05	2.50	583.90	12.00	586.75	23.55
581.10	2.52	583.95	12.71	586.80	23.63
581.15	2.55	584.00	13.45	586.85	23.70
581.20	2.58	584.05	14.30	586.90	23.78
581.25	2.61	584.10	15.27	586.95	23.85
581.30	2.63	584.15	16.31	587.00	**23.93**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stage-Area-Storage for Pond 3P: Pond

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
578.50	1,628	0
578.60	1,686	166
578.70	1,745	337
578.80	1,803	515
578.90	1,862	698
579.00	1,920	887
579.10	1,983	1,082
579.20	2,046	1,284
579.30	2,109	1,491
579.40	2,172	1,705
579.50	2,235	1,926
579.60	2,298	2,152
579.70	2,361	2,385
579.80	2,424	2,625
579.90	2,487	2,870
580.00	2,550	3,122
580.10	2,617	3,380
580.20	2,684	3,645
580.30	2,751	3,917
580.40	2,818	4,196
580.50	2,885	4,481
580.60	2,952	4,773
580.70	3,019	5,071
580.80	3,086	5,376
580.90	3,153	5,688
581.00	3,220	6,007
581.10	3,294	6,333
581.20	3,368	6,666
581.30	3,442	7,006
581.40	3,516	7,354
581.50	3,590	7,710
581.60	3,664	8,072
581.70	3,738	8,442
581.80	3,812	8,820
581.90	3,886	9,205
582.00	3,960	9,597
582.10	4,040	9,997
582.20	4,120	10,405
582.30	4,200	10,821
582.40	4,280	11,245
582.50	4,360	11,677
582.60	4,440	12,117
582.70	4,520	12,565
582.80	4,600	13,021
582.90	4,680	13,485
583.00	4,760	13,957
583.10	5,470	14,469
583.20	6,180	15,051
583.30	6,890	15,704
583.40	7,600	16,429
583.50	8,310	17,225
583.60	9,020	18,091
583.70	9,730	19,029
583.80	10,440	20,037
583.90	11,150	21,116
584.00	11,860	22,267
584.10	12,002	23,460
584.20	12,144	24,667
584.30	12,286	25,889
584.40	12,428	27,125
584.50	12,570	28,375
584.60	12,712	29,639
584.70	12,854	30,917
584.80	12,996	32,209
584.90	13,138	33,516
585.00	**13,280**	**34,837**
585.10	13,280	34,837
585.20	13,280	34,837
585.30	13,280	34,837
585.40	13,280	34,837
585.50	13,280	34,837
585.60	13,280	34,837
585.70	13,280	34,837
585.80	13,280	34,837
585.90	13,280	34,837
586.00	13,280	34,837
586.10	13,280	34,837
586.20	13,280	34,837
586.30	13,280	34,837
586.40	13,280	34,837
586.50	13,280	34,837
586.60	13,280	34,837
586.70	13,280	34,837
586.80	13,280	34,837
586.90	13,280	34,837
587.00	13,280	34,837

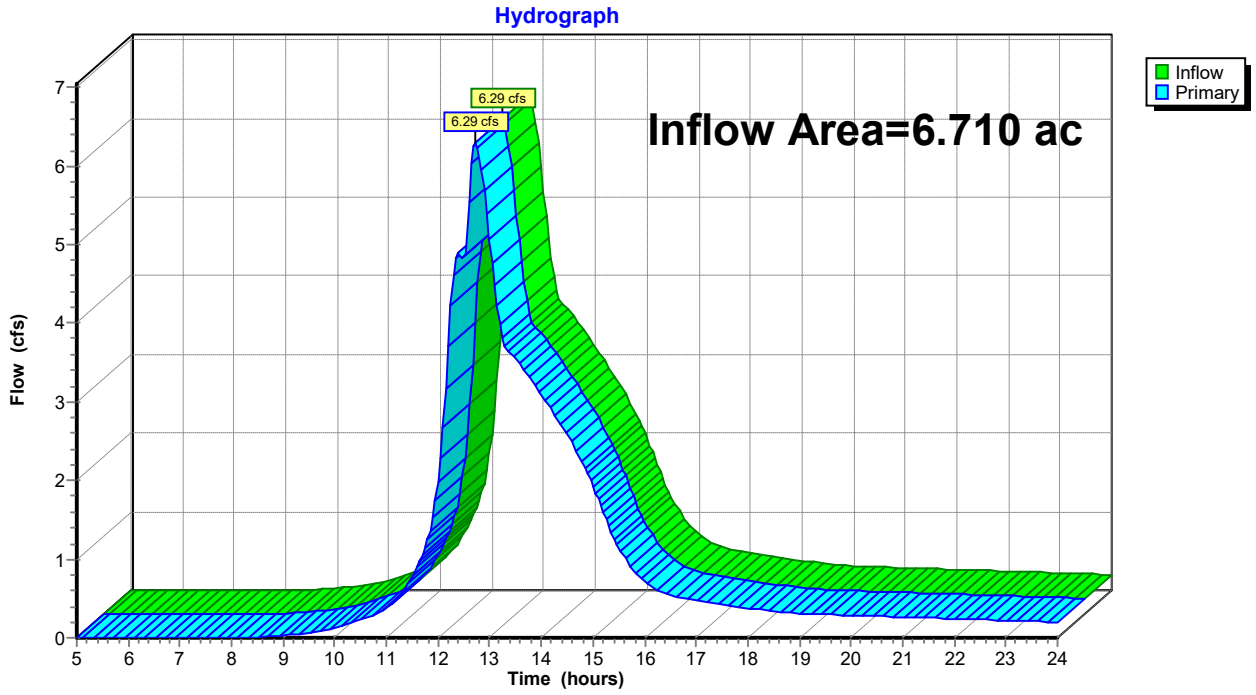
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Link 12L: POST DEV

Inflow Area = 6.710 ac, 32.97% Impervious, Inflow Depth > 2.36" for 25-Year event
Inflow = 6.29 cfs @ 12.73 hrs, Volume= 1.322 af
Primary = 6.29 cfs @ 12.73 hrs, Volume= 1.322 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs

Link 12L: POST DEV



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Link 12L: POST DEV

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.00	0.00	**0.00**	0.00	19.25	0.30	0.00	0.30
5.25	0.00	0.00	0.00	19.50	0.30	0.00	0.30
5.50	0.00	0.00	0.00	19.75	0.29	0.00	0.29
5.75	0.00	0.00	0.00	20.00	0.28	0.00	0.28
6.00	0.00	0.00	0.00	20.25	0.28	0.00	0.28
6.25	0.00	0.00	0.00	20.50	0.27	0.00	0.27
6.50	0.00	0.00	0.00	20.75	0.27	0.00	0.27
6.75	0.00	0.00	0.00	21.00	0.26	0.00	0.26
7.00	0.00	0.00	0.00	21.25	0.26	0.00	0.26
7.25	0.00	0.00	0.00	21.50	0.25	0.00	0.25
7.50	0.00	0.00	0.00	21.75	0.25	0.00	0.25
7.75	0.00	0.00	0.00	22.00	0.24	0.00	0.24
8.00	0.00	0.00	0.00	22.25	0.24	0.00	0.24
8.25	0.00	0.00	0.00	22.50	0.23	0.00	0.23
8.50	0.01	0.00	0.01	22.75	0.23	0.00	0.23
8.75	0.01	0.00	0.01	23.00	0.22	0.00	0.22
9.00	0.03	0.00	0.03	23.25	0.21	0.00	0.21
9.25	0.04	0.00	0.04	23.50	0.21	0.00	0.21
9.50	0.06	0.00	0.06	23.75	0.20	0.00	0.20
9.75	0.09	0.00	0.09	24.00	0.20	0.00	0.20
10.00	0.12	0.00	0.12				
10.25	0.17	0.00	0.17				
10.50	0.22	0.00	0.22				
10.75	0.29	0.00	0.29				
11.00	0.38	0.00	0.38				
11.25	0.53	0.00	0.53				
11.50	0.77	0.00	0.77				
11.75	1.15	0.00	1.15				
12.00	1.98	0.00	1.98				
12.25	4.22	0.00	4.22				
12.50	4.78	0.00	4.78				
12.75	**6.29**	0.00	**6.29**				
13.00	5.07	0.00	5.07				
13.25	3.81	0.00	3.81				
13.50	3.55	0.00	3.55				
13.75	3.33	0.00	3.33				
14.00	3.10	0.00	3.10				
14.25	2.85	0.00	2.85				
14.50	2.58	0.00	2.58				
14.75	2.28	0.00	2.28				
15.00	1.92	0.00	1.92				
15.25	1.50	0.00	1.50				
15.50	1.12	0.00	1.12				
15.75	0.89	0.00	0.89				
16.00	0.71	0.00	0.71				
16.25	0.60	0.00	0.60				
16.50	0.54	0.00	0.54				
16.75	0.50	0.00	0.50				
17.00	0.47	0.00	0.47				
17.25	0.44	0.00	0.44				
17.50	0.42	0.00	0.42				
17.75	0.40	0.00	0.40				
18.00	0.38	0.00	0.38				
18.25	0.36	0.00	0.36				
18.50	0.34	0.00	0.34				
18.75	0.32	0.00	0.32				
19.00	0.31	0.00	0.31				

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Time span=5.00-24.00 hrs, dt=0.05 hrs, 381 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 2S: DA POST DEV - Runoff Area=5.610 ac 39.44% Impervious Runoff Depth>3.77"
Flow Length=860' Tc=27.1 min CN=87 Runoff=17.52 cfs 1.761 af

Subcatchment 11S: DA Post - DEV Runoff Area=1.100 ac 0.00% Impervious Runoff Depth>3.08"
Flow Length=370' Slope=0.0100 '/' Tc=22.0 min CN=80 Runoff=3.17 cfs 0.283 af

Pond 3P: Pond Peak Elev=583.86' Storage=20,698 cf Inflow=17.52 cfs 1.761 af
Outflow=11.47 cfs 1.748 af

Link 12L: POST DEV Inflow=13.15 cfs 2.030 af
Primary=13.15 cfs 2.030 af

Total Runoff Area = 6.710 ac Runoff Volume = 2.044 af Average Runoff Depth = 3.66"
67.03% Pervious = 4.497 ac 32.97% Impervious = 2.213 ac

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 2S: DA POST DEV - CONTROLLED

[47] Hint: Peak is 777% of capacity of segment #3

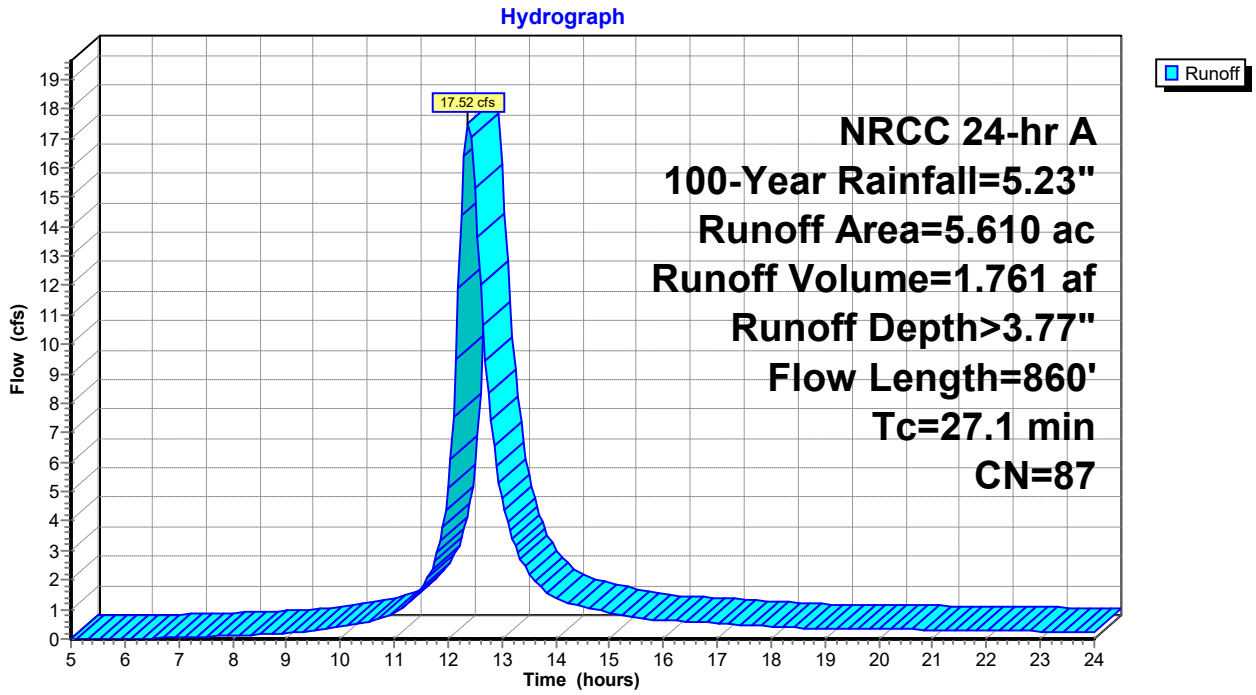
Runoff = 17.52 cfs @ 12.38 hrs, Volume= 1.761 af, Depth> 3.77"
Routed to Pond 3P : Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.970	98	Paved parking, HSG D
3.270	87	1/4 acre lots, 38% imp, HSG D
1.370	80	>75% Grass cover, Good, HSG D
5.610	87	Weighted Average
3.397		60.56% Pervious Area
2.213		39.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.7	100	0.0100	0.07		**Sheet Flow, SF** Grass: Dense n= 0.240 P2= 2.20"
0.1	20	0.0200	2.28		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
4.3	740	0.0040	2.87	2.25	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Concrete pipe, straight & clean
27.1	860	Total			

Subcatchment 2S: DA POST DEV - CONTROLLED



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 2S: DA POST DEV - CONTROLLED

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.27	0.00	0.00
5.25	0.28	0.00	0.00
5.50	0.30	0.00	0.00
5.75	0.32	0.00	0.00
6.00	0.33	0.00	0.01
6.25	0.35	0.00	0.01
6.50	0.37	0.00	0.02
6.75	0.39	0.01	0.03
7.00	0.42	0.01	0.05
7.25	0.44	0.01	0.06
7.50	0.46	0.02	0.08
7.75	0.49	0.02	0.10
8.00	0.52	0.03	0.12
8.25	0.55	0.04	0.14
8.50	0.58	0.04	0.16
8.75	0.61	0.05	0.18
9.00	0.64	0.06	0.21
9.25	0.68	0.08	0.24
9.50	0.72	0.09	0.28
9.75	0.76	0.11	0.34
10.00	0.81	0.13	0.41
10.25	0.87	0.16	0.49
10.50	0.93	0.19	0.57
10.75	1.01	0.23	0.68
11.00	1.10	0.28	0.89
11.25	1.24	0.36	1.21
11.50	1.40	0.47	1.72
11.75	1.72	0.69	2.63
12.00	2.46	1.28	5.11
12.25	3.51	2.19	**14.37**
12.50	3.83	2.48	**15.28**
12.75	3.99	2.63	8.35
13.00	4.13	2.75	4.77
13.25	4.22	2.84	3.15
13.50	4.30	2.91	2.25
13.75	4.36	2.97	1.71
14.00	4.42	3.02	1.39
14.25	4.47	3.07	1.22
14.50	4.51	3.11	1.10
14.75	4.55	3.15	0.99
15.00	4.59	3.18	0.89
15.25	4.62	3.21	0.78
15.50	4.65	3.24	0.71
15.75	4.68	3.27	0.66
16.00	4.71	3.30	0.63
16.25	4.74	3.32	0.61
16.50	4.77	3.35	0.58
16.75	4.79	3.37	0.56
17.00	4.81	3.39	0.53
17.25	4.84	3.41	0.50
17.50	4.86	3.43	0.48
17.75	4.88	3.45	0.45
18.00	4.90	3.47	0.42
18.25	4.91	3.49	0.40
18.50	4.93	3.50	0.38
18.75	4.95	3.52	0.37
19.00	4.96	3.53	0.36
19.25	4.98	3.55	0.35
19.50	5.00	3.56	0.35
19.75	5.01	3.58	0.34
20.00	5.03	3.59	0.33
20.25	5.04	3.61	0.33
20.50	5.06	3.62	0.32
20.75	5.07	3.63	0.31
21.00	5.08	3.65	0.31
21.25	5.10	3.66	0.30
21.50	5.11	3.67	0.29
21.75	5.12	3.69	0.29
22.00	5.14	3.70	0.28
22.25	5.15	3.71	0.28
22.50	5.16	3.72	0.27
22.75	5.17	3.73	0.26
23.00	5.19	3.74	0.26
23.25	5.20	3.75	0.25
23.50	5.21	3.76	0.24
23.75	5.22	3.77	0.24
24.00	**5.23**	**3.78**	0.23

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Subcatchment 11S: DA Post - DEV Uncontrolled

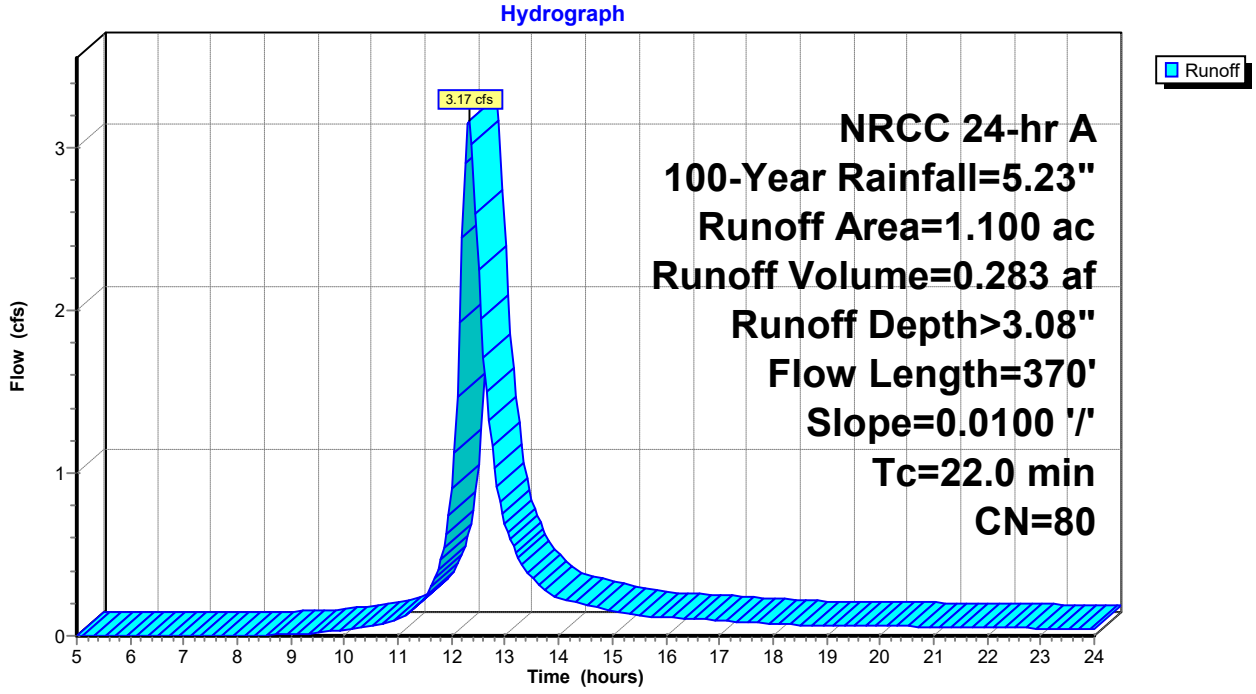
Runoff = 3.17 cfs @ 12.32 hrs, Volume= 0.283 af, Depth> 3.08"
Routed to Link 12L : POST DEV

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
NRCC 24-hr A 100-Year Rainfall=5.23"

Area (ac)	CN	Description
1.100	80	>75% Grass cover, Good, HSG D
1.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	100	0.0100	0.11		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
6.4	270	0.0100	0.70		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
22.0	370	Total			

Subcatchment 11S: DA Post - DEV Uncontrolled



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Subcatchment 11S: DA Post - DEV Uncontrolled

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.00	0.27	0.00	0.00
5.25	0.28	0.00	0.00
5.50	0.30	0.00	0.00
5.75	0.32	0.00	0.00
6.00	0.33	0.00	0.00
6.25	0.35	0.00	0.00
6.50	0.37	0.00	0.00
6.75	0.39	0.00	0.00
7.00	0.42	0.00	0.00
7.25	0.44	0.00	0.00
7.50	0.46	0.00	0.00
7.75	0.49	0.00	0.00
8.00	0.52	0.00	0.00
8.25	0.55	0.00	0.00
8.50	0.58	0.00	0.00
8.75	0.61	0.00	0.01
9.00	0.64	0.01	0.01
9.25	0.68	0.01	0.01
9.50	0.72	0.02	0.02
9.75	0.76	0.02	0.03
10.00	0.81	0.03	0.04
10.25	0.87	0.05	0.05
10.50	0.93	0.06	0.06
10.75	1.01	0.09	0.08
11.00	1.10	0.12	0.11
11.25	1.24	0.17	0.16
11.50	1.40	0.24	0.24
11.75	1.72	0.40	0.41
12.00	2.46	0.86	0.90
12.25	3.51	1.64	**2.91**
12.50	3.83	1.90	**2.25**
12.75	3.99	2.04	1.16
13.00	4.13	2.15	0.69
13.25	4.22	2.23	0.48
13.50	4.30	2.29	0.36
13.75	4.36	2.34	0.28
14.00	4.42	2.39	0.23
14.25	4.47	2.43	0.21
14.50	4.51	2.47	0.19
14.75	4.55	2.51	0.17
15.00	4.59	2.54	0.15
15.25	4.62	2.57	0.13
15.50	4.65	2.59	0.12
15.75	4.68	2.62	0.12
16.00	4.71	2.64	0.11
16.25	4.74	2.67	0.11
16.50	4.77	2.69	0.10
16.75	4.79	2.71	0.10
17.00	4.81	2.73	0.09
17.25	4.84	2.75	0.09
17.50	4.86	2.77	0.08
17.75	4.88	2.79	0.08
18.00	4.90	2.80	0.08
18.25	4.91	2.82	0.07
18.50	4.93	2.83	0.07
18.75	4.95	2.85	0.07
19.00	4.96	2.86	0.07
19.25	4.98	2.88	0.06
19.50	5.00	2.89	0.06
19.75	5.01	2.90	0.06
20.00	5.03	2.92	0.06
20.25	5.04	2.93	0.06
20.50	5.06	2.94	0.06
20.75	5.07	2.95	0.06
21.00	5.08	2.97	0.06
21.25	5.10	2.98	0.05
21.50	5.11	2.99	0.05
21.75	5.12	3.00	0.05
22.00	5.14	3.01	0.05
22.25	5.15	3.02	0.05
22.50	5.16	3.04	0.05
22.75	5.17	3.05	0.05
23.00	5.19	3.06	0.05
23.25	5.20	3.07	0.04
23.50	5.21	3.08	0.04
23.75	5.22	3.08	0.04
24.00	**5.23**	**3.09**	0.04

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Pond 3P: Pond

Inflow Area = 5.610 ac, 39.44% Impervious, Inflow Depth > 3.77" for 100-Year event
Inflow = 17.52 cfs @ 12.38 hrs, Volume= 1.761 af
Outflow = 11.47 cfs @ 12.62 hrs, Volume= 1.748 af, Atten= 35%, Lag= 14.8 min
Primary = 11.47 cfs @ 12.62 hrs, Volume= 1.748 af
Routed to Link 12L : POST DEV

Routing by Stor-Ind method, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 583.86' @ 12.62 hrs Surf.Area= 10,880 sf Storage= 20,698 cf

Plug-Flow detention time= 40.5 min calculated for 1.748 af (99% of inflow)
Center-of-Mass det. time= 35.7 min (845.6 - 809.9)

Volume	Invert	Avail.Storage	Storage Description
#1	578.50'	34,837 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

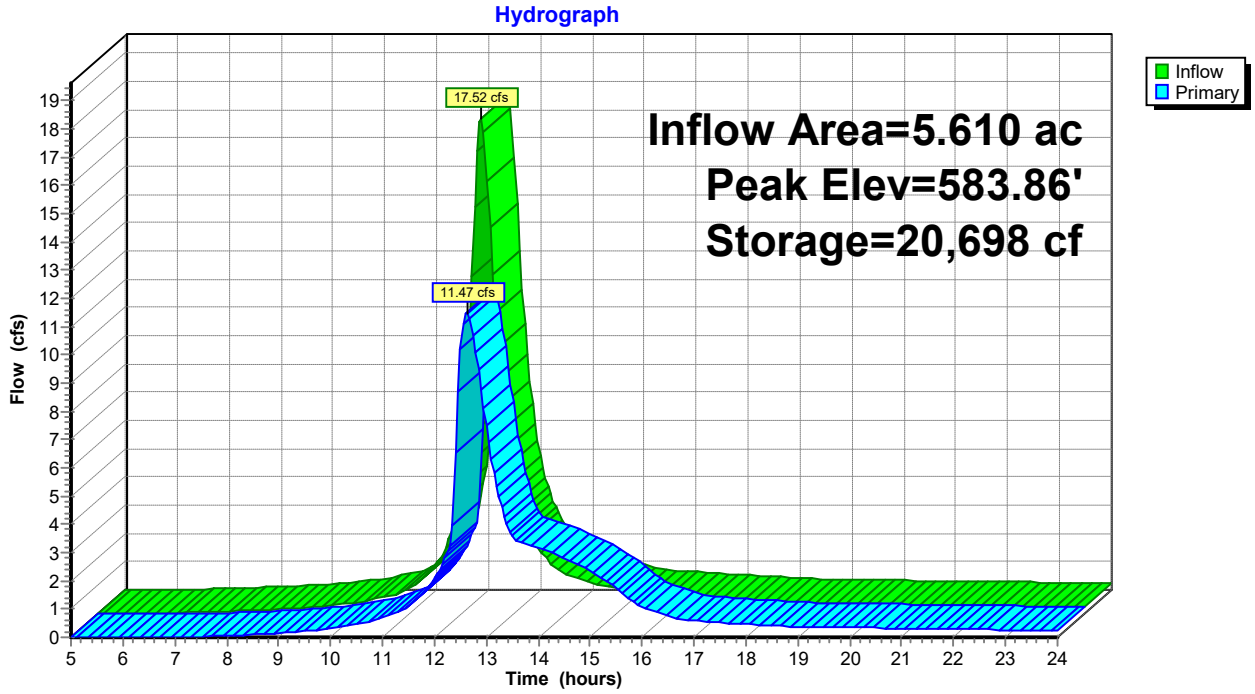
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
578.50	1,628	0	0
579.00	1,920	887	887
580.00	2,550	2,235	3,122
581.00	3,220	2,885	6,007
582.00	3,960	3,590	9,597
583.00	4,760	4,360	13,957
584.00	11,860	8,310	22,267
585.00	13,280	12,570	34,837

Device	Routing	Invert	Outlet Devices
#1	Device 4	578.51'	**8.0" Round Culvert** L= 16.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.51' / 578.45' S= 0.0037 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.35 sf
#2	Device 4	583.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 4	584.00'	**36.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	578.34'	**18.0" Round Culvert** L= 34.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.34' / 578.21' S= 0.0038 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

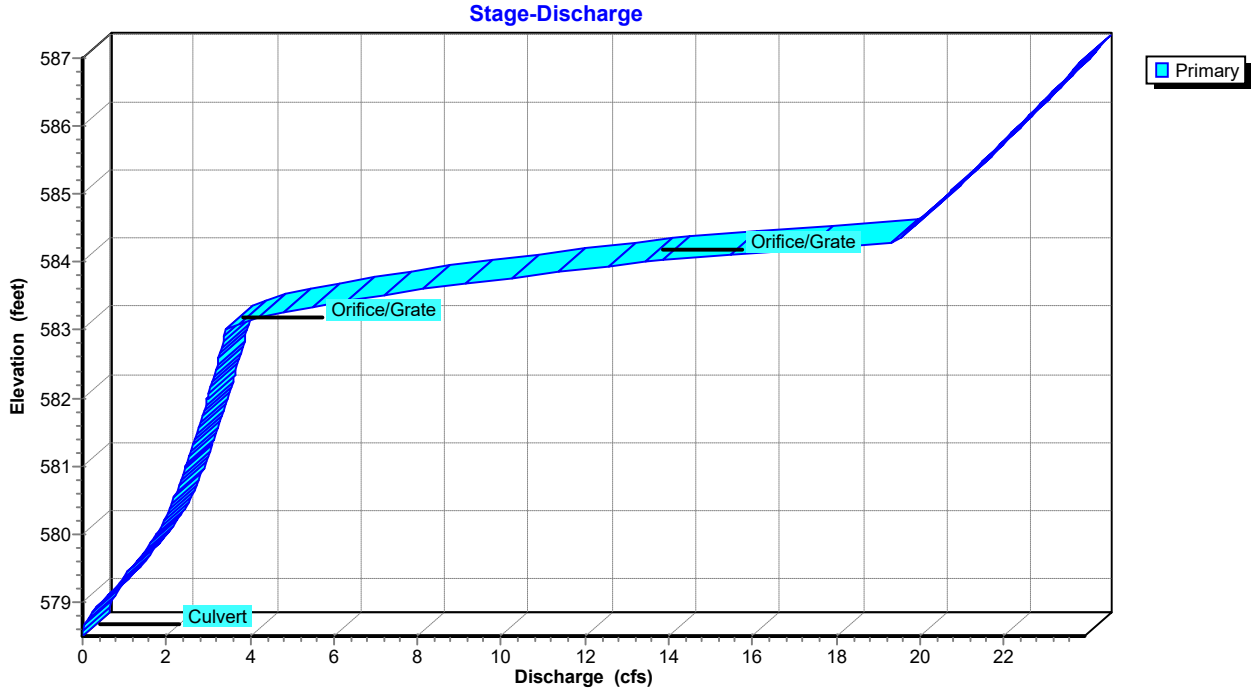
Primary OutFlow Max=11.42 cfs @ 12.62 hrs HW=583.86' (Free Discharge)
└**4=Culvert** (Passes 11.42 cfs of 18.58 cfs potential flow)
  ├**1=Culvert** (Inlet Controls 3.76 cfs @ 10.78 fps)
  ├**2=Orifice/Grate** (Orifice Controls 7.66 cfs @ 2.97 fps)
  └**3=Orifice/Grate** (Controls 0.00 cfs)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Pond 3P: Pond

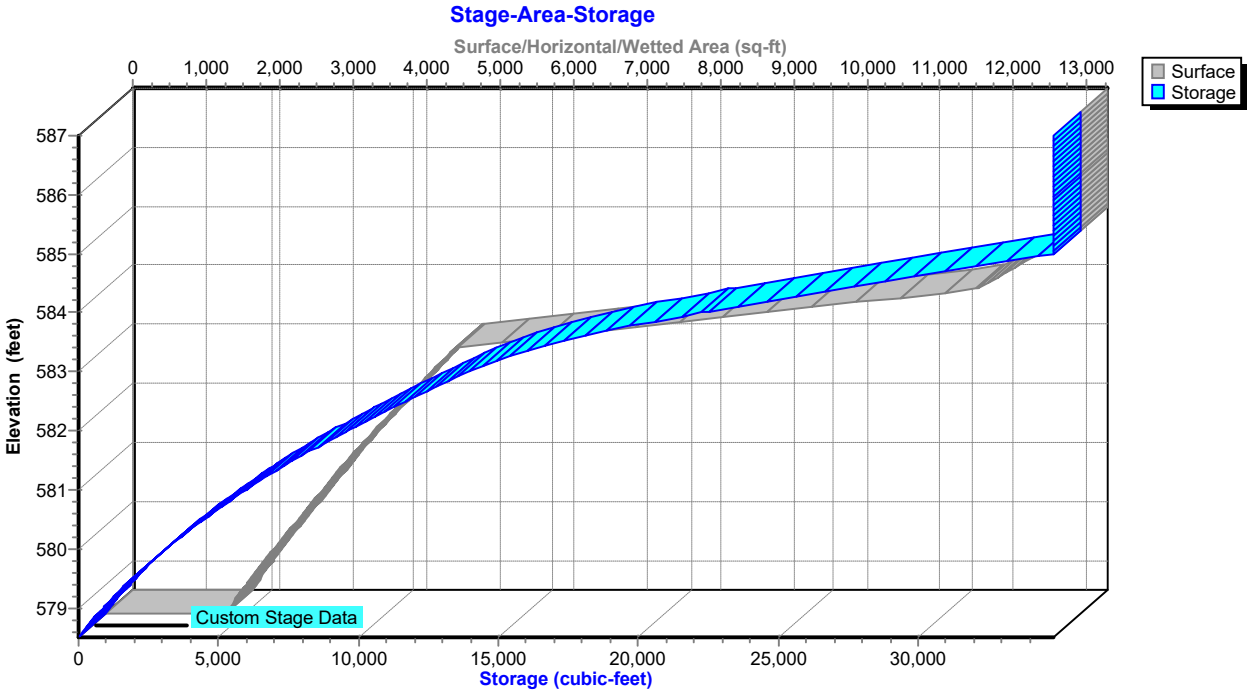


Pond 3P: Pond



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Pond 3P: Pond



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Pond 3P: Pond

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
5.00	0.00	0	578.50	0.00
5.50	0.00	0	578.50	0.00
6.00	0.01	2	578.50	0.00
6.50	0.02	26	578.52	0.00
7.00	0.05	82	578.55	0.01
7.50	0.08	174	578.60	0.02
8.00	0.12	279	578.67	0.05
8.50	0.16	382	578.73	0.10
9.00	0.21	477	578.78	0.16
9.50	0.28	572	578.83	0.22
10.00	0.41	712	578.91	0.32
10.50	0.57	893	579.00	0.46
11.00	0.89	1,150	579.13	0.67
11.50	1.72	1,824	579.45	1.09
12.00	**5.11**	4,233	580.41	2.11
12.50	**15.28**	**19,692**	**583.77**	**10.19**
13.00	4.77	**17,576**	**583.54**	**7.48**
13.50	2.25	14,196	583.05	3.58
14.00	1.39	11,345	582.42	3.18
14.50	1.10	8,154	581.62	2.80
15.00	0.89	5,300	580.78	2.34
15.50	0.71	3,022	579.96	1.72
16.00	0.63	1,762	579.43	1.05
16.50	0.58	1,244	579.18	0.75
17.00	0.53	1,052	579.08	0.60
17.50	0.48	960	579.04	0.52
18.00	0.42	890	579.00	0.46
18.50	0.38	826	578.97	0.41
19.00	0.36	786	578.95	0.38
19.50	0.35	763	578.93	0.36
20.00	0.33	745	578.92	0.34
20.50	0.32	727	578.92	0.33
21.00	0.31	710	578.91	0.32
21.50	0.29	692	578.90	0.30
22.00	0.28	674	578.89	0.29
22.50	0.27	656	578.88	0.28
23.00	0.26	638	578.87	0.27
23.50	0.24	620	578.86	0.25
24.00	0.23	602	578.85	0.24

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stage-Discharge for Pond 3P: Pond

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
578.50	0.00	581.35	2.66	584.20	17.41
578.55	0.00	581.40	2.69	584.25	18.57
578.60	0.02	581.45	2.71	584.30	19.42
578.65	0.04	581.50	2.74	584.35	19.51
578.70	0.08	581.55	2.77	584.40	19.61
578.75	0.12	581.60	2.79	584.45	19.70
578.80	0.18	581.65	2.82	584.50	19.79
578.85	0.24	581.70	2.84	584.55	19.88
578.90	0.31	581.75	2.87	584.60	19.97
578.95	0.38	581.80	2.89	584.65	20.06
579.00	0.46	581.85	2.91	584.70	20.15
579.05	0.54	581.90	2.94	584.75	20.24
579.10	0.62	581.95	2.96	584.80	20.33
579.15	0.70	582.00	2.99	584.85	20.42
579.20	0.78	582.05	3.01	584.90	20.51
579.25	0.86	582.10	3.03	584.95	20.60
579.30	0.93	582.15	3.06	585.00	20.69
579.35	0.98	582.20	3.08	585.05	20.77
579.40	1.00	582.25	3.10	585.10	20.86
579.45	1.08	582.30	3.12	585.15	20.95
579.50	1.16	582.35	3.15	585.20	21.03
579.55	1.23	582.40	3.17	585.25	21.12
579.60	1.30	582.45	3.19	585.30	21.20
579.65	1.37	582.50	3.21	585.35	21.29
579.70	1.43	582.55	3.24	585.40	21.37
579.75	1.49	582.60	3.26	585.45	21.46
579.80	1.55	582.65	3.28	585.50	21.54
579.85	1.60	582.70	3.30	585.55	21.63
579.90	1.66	582.75	3.32	585.60	21.71
579.95	1.71	582.80	3.34	585.65	21.79
580.00	1.76	582.85	3.36	585.70	21.88
580.05	1.81	582.90	3.39	585.75	21.96
580.10	1.86	582.95	3.41	585.80	22.04
580.15	1.90	583.00	3.43	585.85	22.12
580.20	1.95	583.05	3.55	585.90	22.20
580.25	1.99	583.10	3.77	585.95	22.29
580.30	2.03	583.15	4.05	586.00	22.37
580.35	2.06	583.20	4.37	586.05	22.45
580.40	2.10	583.25	4.73	586.10	22.53
580.45	2.13	583.30	5.13	586.15	22.61
580.50	2.16	583.35	5.56	586.20	22.69
580.55	2.20	583.40	6.02	586.25	22.77
580.60	2.23	583.45	6.51	586.30	22.85
580.65	2.26	583.50	7.03	586.35	22.93
580.70	2.29	583.55	7.57	586.40	23.01
580.75	2.32	583.60	8.14	586.45	23.08
580.80	2.35	583.65	8.73	586.50	23.16
580.85	2.38	583.70	9.34	586.55	23.24
580.90	2.41	583.75	9.98	586.60	23.32
580.95	2.44	583.80	10.63	586.65	23.40
581.00	2.47	583.85	11.31	586.70	23.47
581.05	2.50	583.90	12.00	586.75	23.55
581.10	2.52	583.95	12.71	586.80	23.63
581.15	2.55	584.00	13.45	586.85	23.70
581.20	2.58	584.05	14.30	586.90	23.78
581.25	2.61	584.10	15.27	586.95	23.85
581.30	2.63	584.15	16.31	587.00	**23.93**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Stage-Area-Storage for Pond 3P: Pond

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
578.50	1,628	0
578.60	1,686	166
578.70	1,745	337
578.80	1,803	515
578.90	1,862	698
579.00	1,920	887
579.10	1,983	1,082
579.20	2,046	1,284
579.30	2,109	1,491
579.40	2,172	1,705
579.50	2,235	1,926
579.60	2,298	2,152
579.70	2,361	2,385
579.80	2,424	2,625
579.90	2,487	2,870
580.00	2,550	3,122
580.10	2,617	3,380
580.20	2,684	3,645
580.30	2,751	3,917
580.40	2,818	4,196
580.50	2,885	4,481
580.60	2,952	4,773
580.70	3,019	5,071
580.80	3,086	5,376
580.90	3,153	5,688
581.00	3,220	6,007
581.10	3,294	6,333
581.20	3,368	6,666
581.30	3,442	7,006
581.40	3,516	7,354
581.50	3,590	7,710
581.60	3,664	8,072
581.70	3,738	8,442
581.80	3,812	8,820
581.90	3,886	9,205
582.00	3,960	9,597
582.10	4,040	9,997
582.20	4,120	10,405
582.30	4,200	10,821
582.40	4,280	11,245
582.50	4,360	11,677
582.60	4,440	12,117
582.70	4,520	12,565
582.80	4,600	13,021
582.90	4,680	13,485
583.00	4,760	13,957
583.10	5,470	14,469
583.20	6,180	15,051
583.30	6,890	15,704
583.40	7,600	16,429
583.50	8,310	17,225
583.60	9,020	18,091
583.70	9,730	19,029
583.80	10,440	20,037
583.90	11,150	21,116
584.00	11,860	22,267
584.10	12,002	23,460
584.20	12,144	24,667
584.30	12,286	25,889
584.40	12,428	27,125
584.50	12,570	28,375
584.60	12,712	29,639
584.70	12,854	30,917
584.80	12,996	32,209
584.90	13,138	33,516
585.00	**13,280**	**34,837**
585.10	13,280	34,837
585.20	13,280	34,837
585.30	13,280	34,837
585.40	13,280	34,837
585.50	13,280	34,837
585.60	13,280	34,837
585.70	13,280	34,837
585.80	13,280	34,837
585.90	13,280	34,837
586.00	13,280	34,837
586.10	13,280	34,837
586.20	13,280	34,837
586.30	13,280	34,837
586.40	13,280	34,837
586.50	13,280	34,837
586.60	13,280	34,837
586.70	13,280	34,837
586.80	13,280	34,837
586.90	13,280	34,837
587.00	13,280	34,837

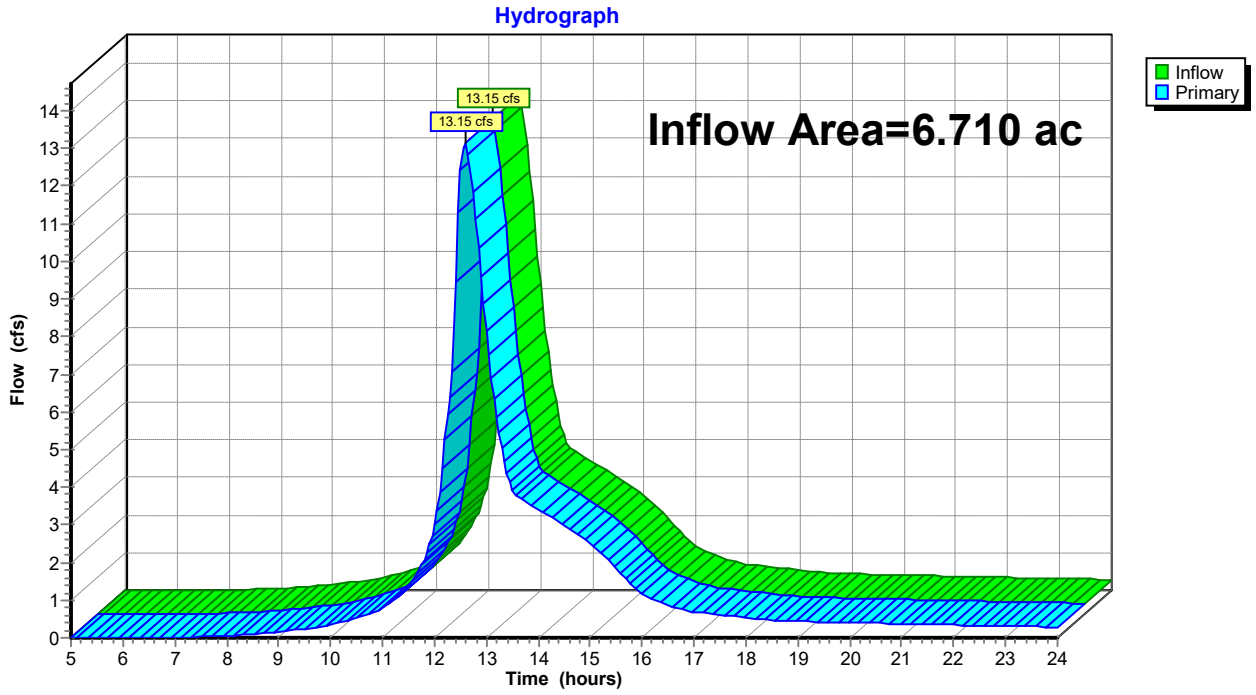
Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Summary for Link 12L: POST DEV

Inflow Area = 6.710 ac, 32.97% Impervious, Inflow Depth > 3.63" for 100-Year event
Inflow = 13.15 cfs @ 12.59 hrs, Volume= 2.030 af
Primary = 13.15 cfs @ 12.59 hrs, Volume= 2.030 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs

Link 12L: POST DEV



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydrograph for Link 12L: POST DEV

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.00	0.00	**0.00**	0.00	19.25	0.43	0.00	0.43
5.25	0.00	0.00	0.00	19.50	0.42	0.00	0.42
5.50	0.00	0.00	0.00	19.75	0.41	0.00	0.41
5.75	0.00	0.00	0.00	20.00	0.40	0.00	0.40
6.00	0.00	0.00	0.00	20.25	0.40	0.00	0.40
6.25	0.00	0.00	0.00	20.50	0.39	0.00	0.39
6.50	0.00	0.00	0.00	20.75	0.38	0.00	0.38
6.75	0.00	0.00	0.00	21.00	0.37	0.00	0.37
7.00	0.01	0.00	0.01	21.25	0.37	0.00	0.37
7.25	0.01	0.00	0.01	21.50	0.36	0.00	0.36
7.50	0.02	0.00	0.02	21.75	0.35	0.00	0.35
7.75	0.04	0.00	0.04	22.00	0.34	0.00	0.34
8.00	0.05	0.00	0.05	22.25	0.33	0.00	0.33
8.25	0.08	0.00	0.08	22.50	0.33	0.00	0.33
8.50	0.11	0.00	0.11	22.75	0.32	0.00	0.32
8.75	0.13	0.00	0.13	23.00	0.31	0.00	0.31
9.00	0.17	0.00	0.17	23.25	0.30	0.00	0.30
9.25	0.20	0.00	0.20	23.50	0.30	0.00	0.30
9.50	0.24	0.00	0.24	23.75	0.29	0.00	0.29
9.75	0.29	0.00	0.29	24.00	0.28	0.00	0.28
10.00	0.36	0.00	0.36				
10.25	0.43	0.00	0.43				
10.50	0.52	0.00	0.52				
10.75	0.63	0.00	0.63				
11.00	0.78	0.00	0.78				
11.25	1.02	0.00	1.02				
11.50	1.32	0.00	1.32				
11.75	1.92	0.00	1.92				
12.00	3.01	0.00	3.01				
12.25	5.94	0.00	5.94				
12.50	**12.44**	0.00	**12.44**				
12.75	**11.83**	0.00	**11.83**				
13.00	8.17	0.00	8.17				
13.25	5.43	0.00	5.43				
13.50	3.93	0.00	3.93				
13.75	3.61	0.00	3.61				
14.00	3.41	0.00	3.41				
14.25	3.21	0.00	3.21				
14.50	2.99	0.00	2.99				
14.75	2.75	0.00	2.75				
15.00	2.49	0.00	2.49				
15.25	2.20	0.00	2.20				
15.50	1.84	0.00	1.84				
15.75	1.48	0.00	1.48				
16.00	1.16	0.00	1.16				
16.25	1.00	0.00	1.00				
16.50	0.85	0.00	0.85				
16.75	0.75	0.00	0.75				
17.00	0.69	0.00	0.69				
17.25	0.64	0.00	0.64				
17.50	0.60	0.00	0.60				
17.75	0.57	0.00	0.57				
18.00	0.54	0.00	0.54				
18.25	0.50	0.00	0.50				
18.50	0.48	0.00	0.48				
18.75	0.46	0.00	0.46				
19.00	0.44	0.00	0.44				

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

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Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Green Infrastructure & Water Quality Calculations

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Step 2 - Calculate Water Quality Volume

Is this project subject to Section 4.3 of the NYS Design Manual for Enhanced Phosphorus Removal?	No
What is the nature of this construction project?	New Construction

Design Point:	1	
P=	0.90	inches

Enter 90% Rainfall Event as P

Calculate Required WQv

Drainage Area Number	Contributing Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (cf)	SMP Description
1	5.00	1.65	33	0.35	5,668	
2	1.71	0.56	33	0.34	1,926	
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
Total	6.71	2.21	33	0.35	**7594**	**Required WQv** **0.17** **af**

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Steps 3 and 5 - Apply RR Techniques and Standard SMPs

Runoff Reduction Volume and Treated Volumes						
	Runoff Reduction Techiques/Standard SMPs		Total Contributing Area	Total Contributing Impervious Area	WQv Reduced (RRv)	WQv Treated
			(acres)	(acres)	(cf)	(cf)
RR Techniques	Conservation of Natural Areas	RR-1	0.00		0	
	Sheet Flow to Riparian Buffer/Filter Strip	RR-2	0.00	0.00	0	
	Tree Planting/Tree Pit/Tree Trench	RR-3	0.00	0.00	0	
	Disconnection of Rooftop Runoff	RR-4		0.00	0	
	Vegetated Swale	RR-5	0.00	0.00	0	
	Rain Garden	RR-6	0.00	0.00	0	
	Stormwater Planter	RR-7	0.00	0.00	0	
	Rainwater Harvesting Systems	RR-8	0.00	0.00	0	
	Porous Pavement	RR-9	0.00	0.00	0	
	Green Roof (Extensive & Intensive)	RR-10	0.00	0.00	0	
	Stream Daylighting	RR-11				
Standard SMPs w/ RRv Capacity	Infiltration Trench	I-1	0.00	0.00	0	0
	Infiltration Basin	I-2	0.00	0.00	0	0
	Dry Well	I-3	0.00	0.00	0	0
	Underground Infiltration System	I-4	0.00	0.00	0	0
	Infiltration Bioretention	F-4	0.00	0.00	0	0
	Filtration Bioretention	F-5	6.71	2.21	4,224	3,370
	Bioslope	F-6	0.00	0.00	0	0
	Dry swale	O-1	0.00	0.00	0	0
Standard SMPs	Micropool Extended Detention	P-1	0.00	0.00		0
	Wet Pond	P-2	0.00	0.00		0
	Wet Extended Detention	P-3	0.00	0.00		0
	Multiple Pond System	P-4	0.00	0.00		0
	Shallow Wetland	W-1	0.00	0.00		0
	Extended Detention Shallow Wetland	W-2	0.00	0.00		0
	Pond/Wetland System	W-3	0.00	0.00		0
	Pocket Wetland	W-4	0.00	0.00		0
	Gravel Wetland	W-5	0.00	0.00		0
	Surface Sand Filter	F-1	0.00	0.00		0
	Underground Sand Filter	F-2	0.00	0.00		0
	Perimeter Sand Filter	F-3	0.00	0.00		0
	Wet Swale	O-2	0.00	0.00		0
Alt. SMPs	Flow Based Alternative Practice	-	0.00	0.00		0
	Volume Based Alternative Practice	-				
	Totals by RR Technique →		0.00	0.00	0	
	Totals by Standard SMP w/RRV →		6.71	2.21	4,224	3,370
	Totals by Standard SMP →		0.00	0.00		0
	Totals by Alternative SMP →		0.00	0.00		0
	Totals (RR Techniques + all SMPs) →		6.71	2.21	4,224	3,370

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Step 4 - Calcuate Minimum RRv Required

Enter the Soils Data for the site		
Hydrologic Soil Group	Acres	S
A		55%
B		40%
C		30%
D	6.71	20%
Total Area	6.71	

Calculate the Minimum RRv		
S =	**0.20**	
Impervious =	6.71	*acres*
Precipitation	0.90	*inches*
Rv	0.95	
Minimum RRv	**0.096**	***af***
	4182	cf

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Filtration Bioretention (F-5)

Design Point:	1

Enter Site Data For Drainage Area to be Treated by Practice							
Drainage Area Number	**Contributing Area** (Acres)	**Impervious Area** (Acres)	**Percent Impervious** %	**Rv**	**WQv** (cf)	**Precipitation** (in)	**Description**
1	5.00	1.65	33	0.35	5,668	0.90	0

Design Criteria		
Enter underlying soil infiltration rate (based on geotechnical testing, refer to Appendix D)	0	Underdrains required
Is the contributing area to the practice a stormwater hotspot?	No	
Is the practice the first in series for treatment of a Level 1 (Infiltration Restricted) hotspot?	No	
Is contributing area greater than max. contributing area?	No	
Enter depth to seasonal high water table (ft)	2	
Enter depth to bedrock (ft)	NA	
Is pretreatment provided, in conformance with Section 6.4.3.1	Yes	
Enter average height of ponding (ft)	0.5	
Enter depth of surface layer (inches)	3	
Enter depth of filter media (ft)	2.5	
Enter depth of drainage layer (inches)	12	
Enter slope of maintenance access (%)	5	
Enter width of maintenance access (ft)	12	

Sizing Criteria				
		Value	Units	Notes
Permeability Flow Rate	k	1	ft/day	
Filter Time	tf	2	days	
Required Filter Area	Af	2362	sf	
Enter Provided Filter Area	Af	2900	sf	
Recalculated Water Quality Volume (based on provided filter area)	WQv calc	6960	cf	

Calculate Runoff Reduction			
RRv Provided	**2,784**	***cf***	
WQv Treated	2884	cf	This is the portion of the WQv that is not reduced in the practice.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Filtration Bioretention (F-5)

Design Point:	1

Enter Site Data For Drainage Area to be Treated by Practice							
Drainage Area Number	**Contributing Area** (Acres)	**Impervious Area** (Acres)	**Percent Impervious** %	**Rv**	**WQv** (cf)	**Precipitation** (in)	**Description**
2	1.71	0.56	33	0.34	1,926	0.90	0

Design Criteria		
Enter underlying soil infiltration rate (based on geotechnical testing, refer to Appendix D)	0	Underdrains required
Is the contributing area to the practice a stormwater hotspot?	No	
Is the practice the first in series for treatment of a Level 1 (Infiltration Restricted) hotspot?	No	
Is contributing area greater than max. contributing area?	No	
Enter depth to seasonal high water table (ft)	2	
Enter depth to bedrock (ft)	NA	
Is pretreatment provided, in conformance with Section 6.4.3.1		
Enter average height of ponding (ft)	0.5	
Enter depth of surface layer (inches)	3	
Enter depth of filter media (ft)	2.5	
Enter depth of drainage layer (inches)	12	
Enter slope of maintenance access (%)	5	
Enter width of maintenance access (ft)	12	

Sizing Criteria				
		Value	Units	Notes
Permeability Flow Rate	k	1	ft/day	
Filter Time	tf	2	days	
Required Filter Area	Af	803	sf	
Enter Provided Filter Area	Af	1500	sf	
Recalculated Water Quality Volume (based on provided filter area)	WQv calc	3600	cf	

Calculate Runoff Reduction			
RRv Provided	**1,440**	***cf***	
WQv Treated	486	cf	This is the portion of the WQv that is not reduced in the practice.

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Storm Sewer Calculations

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

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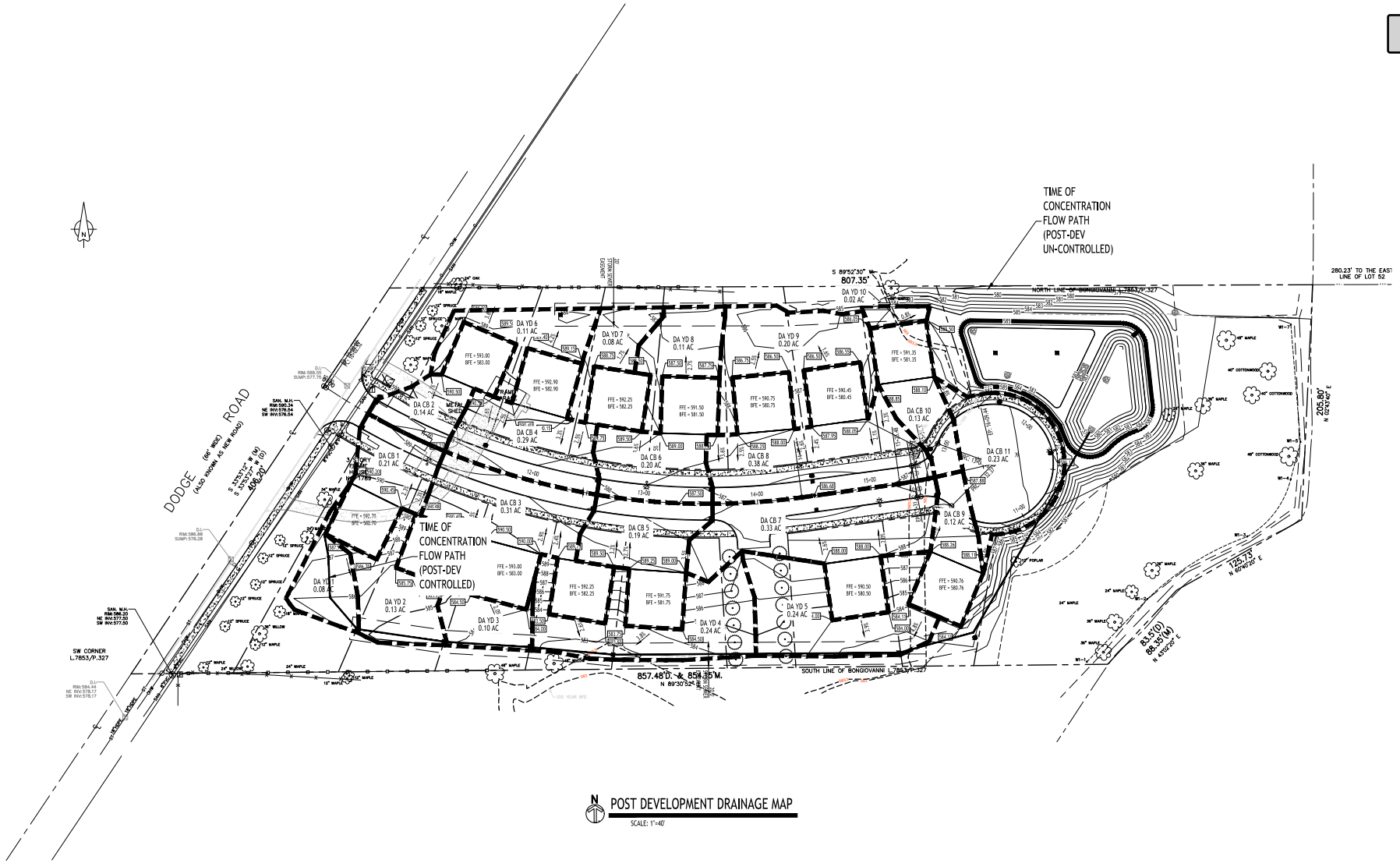


N POST DEVELOPMENT DRAINAGE MAP
SCALE: 1"=40'

TOWN OF AMHERST APPROVAL BOX:

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FO

40' 0 40

CARMINAWO

Single Family Subdivision

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024
2	Rev. Per Town Comments	10/24/2024

PRELIMINARY

DRAWING NA
Storm Dr
Area Map

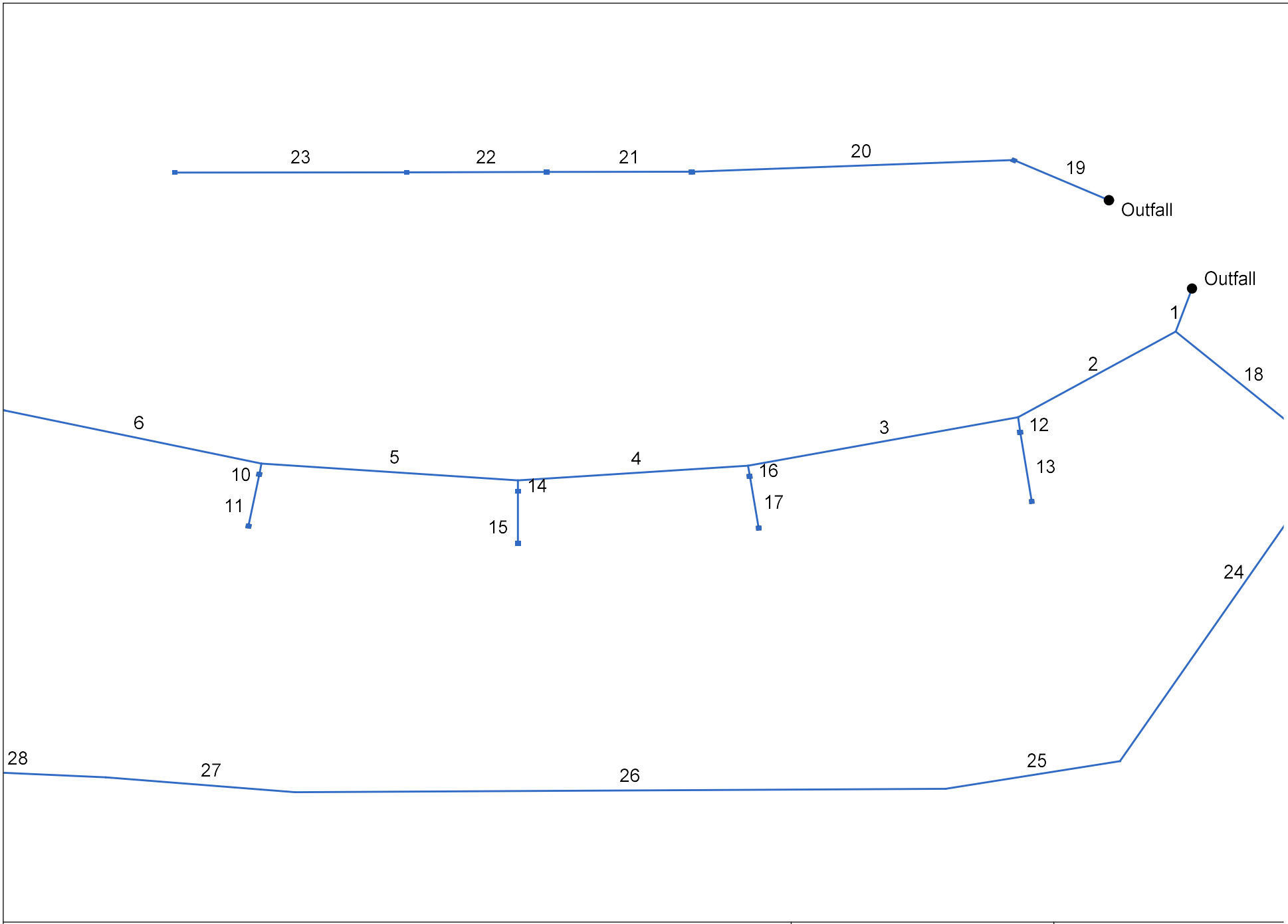
Date: /29/25
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.

PROJECT NO: 20.247

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Project File: HydraFlow.stm	Number of lines: 29	Date: 2/11/2025

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
29	28	77.093	5.132	Genr	0.00	0.08	0.35	5.0	581.18	0.40	581.49	12	Cir	0.012	1.00	585.26	YD 1 - YD 2
28	27	75.349	-2.440	Genr	0.00	0.13	0.35	5.0	580.88	0.40	581.18	12	Cir	0.012	0.50	584.06	YD 2 - YD 3
27	26	72.927	5.999	Genr	0.00	0.10	0.35	5.0	580.59	0.40	580.88	12	Cir	0.012	0.50	583.32	YD 3 - YD 4
26	25	249.680	10.862	Genr	0.00	0.24	0.35	8.0	579.59	0.40	580.59	12	Cir	0.012	0.50	582.62	YD 4 - YD 5
25	24	68.135	49.571	Genr	0.00	0.24	0.35	8.0	579.32	0.40	579.59	12	Cir	0.012	0.50	582.14	YD 5 - STM MH 8
24	End	205.342	119.188	Genr	0.00	0.00	0.00	0.0	578.60	0.35	579.32	12	Cir	0.012	1.20	583.01	MH 8 - ES
23	22	88.884	0.002	Genr	0.00	0.11	0.35	5.0	583.46	1.27	584.59	12	Cir	0.012	1.00	587.92	YD 10 - YD 9
22	21	53.658	0.000	Genr	0.00	0.08	0.35	5.0	583.25	0.39	583.46	12	Cir	0.012	0.50	586.71	YD 9 - YD 8
21	20	55.745	2.507	Genr	0.00	0.11	0.35	5.0	583.03	0.39	583.25	12	Cir	0.012	0.50	586.17	YD 8 - YD 7
20	19	123.646	-30.328	Genr	0.00	0.20	0.35	5.0	582.64	0.32	583.03	12	Cir	0.012	0.50	585.06	YD 7 - YD 6
19	End	41.197	-152.273	Genr	0.00	0.02	0.35	5.0	582.50	0.34	582.64	12	Cir	0.012	0.84	585.50	YD 6 - ES
18	1	63.113	-61.600	Genr	0.00	0.23	0.35	10.0	582.89	0.40	583.14	12	Cir	0.012	1.00	586.14	CB 11 - MH 7
17	16	25.000	0.693	Genr	0.00	0.30	0.30	14.0	583.35	0.32	583.43	12	Cir	0.012	1.00	586.43	CB 7 - CB 8
16	3	5.225	-85.817	Genr	0.00	0.30	0.30	14.0	583.33	0.38	583.35	12	Cir	0.012	0.50	586.43	CB 8 - MH 5
15	14	24.988	0.800	Genr	0.00	0.19	0.35	8.0	583.86	0.52	583.99	12	Cir	0.012	1.00	586.96	CB 5 - CB 6
14	4	5.265	-86.259	Genr	0.00	0.20	0.35	8.0	583.84	0.38	583.86	12	Cir	0.012	0.50	586.96	CB 6 - MH 4
13	12	33.529	0.000	Genr	0.00	0.12	0.45	5.0	584.25	0.39	584.38	12	Cir	0.012	1.00	587.38	CB 9 - CB 10
12	2	7.220	-63.196	Genr	0.00	0.13	0.35	5.0	584.22	0.42	584.25	12	Cir	0.012	0.50	587.41	CB 10 - MH 6
11	10	24.968	0.039	Genr	0.00	0.31	0.45	5.0	584.88	0.40	584.98	12	Cir	0.012	1.00	587.98	CB 3 - CB 4
10	5	5.280	-85.144	Genr	0.00	0.29	0.45	0.0	584.86	0.38	584.88	12	Cir	0.012	0.50	587.98	CB 4 - MH 3
9	8	24.937	0.235	Genr	0.00	0.21	0.45	5.0	585.45	0.40	585.55	12	Cir	0.012	1.00	588.55	CB 1 - CB 2
8	7	5.265	-85.303	Genr	0.00	0.14	0.35	5.0	585.43	0.38	585.45	12	Cir	0.012	0.50	588.51	CB 2 - MH 1
7	6	101.916	10.042	Genr	0.00	0.00	0.00	0.0	584.51	0.40	584.92	12	Cir	0.012	1.50	589.08	MH 1 - MH 2

Project File: HydraFlow.stm | Number of lines: 29 | Date: 2/11/2025

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
6	5	101.918	9.883	Genr	0.00	0.00	0.00	0.0	584.10	0.40	584.51	12	Cir	0.012	0.50	589.45	MH 2 - MH 3
5	4	98.692	9.151	Genr	0.00	0.00	0.00	0.0	583.71	0.40	584.10	18	Cir	0.012	1.50	588.52	MH 3 - MH 4
4	3	88.483	8.095	Genr	0.00	0.00	0.00	0.0	583.33	0.43	583.71	18	Cir	0.012	1.50	587.50	MH 4 - MH 5
3	2	106.221	21.577	Genr	0.00	0.00	0.00	0.0	582.91	0.40	583.33	18	Cir	0.012	1.50	586.96	MH 5 - MH 6
2	1	73.200	39.076	Genr	0.00	0.00	0.00	0.0	582.62	0.40	582.91	18	Cir	0.012	1.37	587.99	MH 6 - MH 7
1	End	21.560	106.728	Genr	0.00	0.00	0.00	0.0	582.50	0.56	582.62	18	Cir	0.012	1.35	587.75	MH 7 - ES

Project File: HydraFlow.stm | Number of lines: 29 | Date: 2/11/2025

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Storm Sewer Inlet Time Tabulation

Line No.	Line ID	Tc Method	Sheet Flow					Shallow Concentrated Flow					Channel Flow							Total
			n-Value	flow Length (ft)	2-yr 24h P (in)	Land Slope (%)	Travel Time (min)	flow Length (ft)	Water Slope (%)	Surf Descr	Ave Vel (ft/s)	Travel Time (min)	X-sec Area (sqft)	Wetted Perim (ft)	Chan Slope (%)	n-Value	Vel	flow Length (ft)	Travel Time (min)	Tra Tir (m
29	YD 1 - YD 2	User																		5
28	YD 2 - YD 3	User																		5
27	YD 3 - YD 4	User																		5
26	YD 4 - YD 5	User																		8
25	YD 5 - STM MH 8	User																		8
24	MH 8 - ES	User																		0
23	YD 10 - YD 9	User																		5
22	YD 9 - YD 8	User																		5
21	YD 8 - YD 7	User																		5
20	YD 7 - YD 6	User																		5
19	YD 6 - ES	User																		5
18	CB 11 - MH 7	User																		1
17	CB 7 - CB 8	User																		1
16	CB 8 - MH 5	User																		1
15	CB 5 - CB 6	User																		8
14	CB 6 - MH 4	User																		8
13	CB 9 - CB 10	User																		5
12	CB 10 - MH 6	User																		5
11	CB 3 - CB 4	User																		5
10	CB 4 - MH 3	User																		0
9	CB 1 - CB 2	User																		5
8	CB 2 - MH 1	User																		5
7	MH 1 - MH 2	User																		0
6	MH 2 - MH 3	User																		0

Project File: HydraFlow.stm | Min. Tc used for intensity calculations = 5 min | Number of lines: 29 | Date: 2/11/2025

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Storm Sewer Inlet Time Tabulation

Line No.	Line ID	Tc Method	Sheet Flow					Shallow Concentrated Flow					Channel Flow							Total Tra Tir (m
			n-Value	flow Length (ft)	2-yr 24h P (in)	Land Slope (%)	Travel Time (min)	flow Length (ft)	Water Slope (%)	Surf Descr	Ave Vel (ft/s)	Travel Time (min)	X-sec Area (sqft)	Wetted Perim (ft)	Chan Slope (%)	n-Value	Vel	flow Length (ft)	Travel Time (min)	
5	MH 3 - MH 4	User																		0
4	MH 4 - MH 5	User																		0
3	MH 5 - MH 6	User																		0
2	MH 6 - MH 7	User																		0
1	MH 7 - ES	User																		0

Project File: HydraFlow.stm | Min. Tc used for intensity calculations = 5 min | Number of lines: 29 | Date: 2/11/2025

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydraulic Grade Line Computations

Line	Size	Q	Downstream								Len	Upstream								Check		JL coeff	Minor l
			Invert elev	HGL elev	Depth	Area	Vel	Vel head	EGL elev	Sf		Invert elev	HGL elev	Depth	Area	Vel	Vel head	EGL elev	Sf	Ave Sf	Enrgy loss		
	(in)	(cfs)	(ft)	(ft)	(ft)	(sqft)	(ft/s)	(ft)	(ft)	(%)	(ft)	(ft)	(ft)	(ft)	(sqft)	(ft/s)	(ft)	(ft)	(%)	(%)	(ft)	(K)	(
29	12	0.20	581.18	581.51	0.33	0.10	0.91	0.01	581.52	0.052	77.093	581.49	581.68 j	0.19**	0.10	2.00	0.06	581.74	0.479	0.265	0.205	1.00	
28	12	0.44	580.88	581.27	0.39	0.18	1.58	0.04	581.31	0.131	75.349	581.18	581.46	0.28**	0.18	2.49	0.10	581.55	0.466	0.299	0.225	0.50	
27	12	0.62	580.59	581.02	0.43	0.22	1.90	0.06	581.08	0.171	72.927	580.88	581.21	0.33**	0.23	2.74	0.12	581.33	0.468	0.320	0.233	0.50	
26	12	1.06	579.59	580.25	0.66	0.32	1.91	0.06	580.31	0.124	249.680	580.59	581.02	0.43**	0.32	3.25	0.16	581.19	0.500	0.312	n/a	0.50	
25	12	1.41	579.32	580.09	0.77	0.65	2.17	0.07	580.16	0.151	68.135	579.59	580.19	0.60	0.49	2.87	0.13	580.32	0.298	0.224	0.153	0.50	
24	12	1.39	578.60	579.10	0.50	0.39	3.55	0.20	579.30	0.521	205.342	579.32	579.96	0.64	0.53	2.60	0.11	580.07	0.234	0.377	0.775	1.20	
23	12	0.28	583.46	583.87	0.41	0.13	0.93	0.08	583.94	0.000	88.884	584.59	584.81 j	0.22**	0.13	2.22	0.08	584.88	0.000	0.000	n/a	1.00	
22	12	0.41	583.25	583.83	0.58	0.48	0.87	0.01	583.84	0.028	53.658	583.46	583.85	0.39	0.28	1.46	0.03	583.88	0.111	0.070	0.037	0.50	
21	12	0.62	583.03	583.81	0.78	0.65	0.95	0.01	583.82	0.029	55.745	583.25	583.82	0.57	0.46	1.35	0.03	583.85	0.068	0.048	0.027	0.50	
20	12	1.00	582.64	583.71	1.00	0.79	1.28	0.03	583.73	0.068	123.646	583.03	583.79	0.76	0.64	1.57	0.04	583.83	0.080	0.074	0.091	0.50	
19	12	1.00	582.50	583.66	1.00	0.79	1.28	0.03	583.69	0.068	41.197	582.64	583.69	1.00	0.79	1.28	0.03	583.71	0.068	0.068	0.028	0.84	
18	12	0.49	582.89	583.44	0.55	0.45	1.09	0.02	583.46	0.045	63.113	583.14	583.49	0.35	0.24	1.99	0.06	583.55	0.231	0.138	0.087	1.00	
17	12	0.48	583.35	584.52	1.00	0.79	0.61	0.01	584.53	0.016	25.000	583.43	584.53	1.00	0.79	0.61	0.01	584.53	0.016	0.016	0.004	1.00	
16	12	0.95	583.33	584.51	1.00	0.79	1.20	0.02	584.53	0.060	5.225	583.35	584.51	1.00	0.79	1.20	0.02	584.53	0.060	0.060	0.003	0.50	
15	12	0.43	583.86	584.83	0.97	0.17	0.55	0.10	584.93	0.000	24.988	583.99	584.26	0.27**	0.17	2.50	0.10	584.36	0.000	0.000	n/a	1.00	
14	12	0.86	583.84	584.82	0.98	0.78	1.10	0.02	584.84	0.044	5.265	583.86	584.82	0.96	0.77	1.11	0.02	584.84	0.043	0.044	0.002	0.50	
13	12	0.39	584.25	584.67	0.42	0.31	1.26	0.02	584.69	0.078	33.529	584.38	584.69	0.31	0.21	1.88	0.06	584.75	0.236	0.157	0.053	1.00	
12	12	0.69	584.22	584.58	0.36*	0.25	2.71	0.11	584.69	0.415	7.220	584.25	584.61	0.36	0.25	2.70	0.11	584.72	0.414	0.415	0.030	0.50	
11	12	1.01	584.88	585.65	0.77	0.65	1.55	0.04	585.69	0.077	24.968	584.98	585.66	0.68	0.57	1.76	0.05	585.71	0.104	0.090	0.023	1.00	
10	12	1.93	584.86	585.54	0.68*	0.57	3.37	0.18	585.72	0.379	5.280	584.88	585.57	0.69	0.57	3.36	0.18	585.74	0.378	0.378	0.020	0.50	
9	12	0.68	585.45	585.97	0.52	0.42	1.65	0.04	586.01	0.108	24.937	585.55	585.99	0.44	0.33	2.07	0.07	586.05	0.201	0.155	0.039	1.00	
8	12	1.02	585.43	585.89	0.46*	0.35	2.91	0.13	586.02	0.380	5.265	585.45	585.91	0.46	0.35	2.92	0.13	586.04	0.383	0.382	0.020	0.50	

Project File: HydraFlow.stm | Number of lines: 29 | Run Date: 2/11/2025

Notes: * depth assumed; ** Critical depth.; j-Line contains hyd. jump ; c = cir e = ellip b = box

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Hydraulic Grade Line Computations

Line	Size	Q	Downstream								Len	Upstream								Check		JL coeff	Minor l
	(in)	(cfs)	Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	(ft)	Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)	(K)	(
7	12	1.02	584.51	585.16	0.65	0.54	1.89	0.06	585.21	0.122	101.916	584.92	585.36	0.44	0.33	3.09	0.15	585.50	0.449	0.286	0.291	1.50	
6	12	0.97	584.10	585.07	0.97	0.78	1.24	0.02	585.09	0.055	101.918	584.51	585.13	0.62	0.51	1.89	0.06	585.19	0.126	0.090	0.092	0.50	
5	18	2.66	583.71	584.82	1.11	1.40	1.90	0.06	584.87	0.068	98.692	584.10	584.87	0.77	0.92	2.89	0.13	585.00	0.196	0.132	0.130	1.50	
4	18	3.41	583.33	584.51	1.18	1.49	2.29	0.08	584.59	0.098	88.483	583.71	584.57	0.86	1.05	3.25	0.16	584.74	0.229	0.163	0.144	1.50	
3	18	3.83	582.91	584.12	1.21	1.53	2.50	0.10	584.22	0.116	106.221	583.33	584.23	0.90	1.11	3.46	0.19	584.42	0.251	0.183	0.195	1.50	
2	18	4.26	582.62	583.45	0.83*	1.01	4.23	0.28	583.73	0.396	73.200	582.91	583.74	0.83	1.01	4.23	0.28	584.02	0.398	0.397	0.291	1.37	
1	18	4.61	582.50	583.39	0.89	0.99	4.22	0.33	583.72	0.000	21.560	582.62	583.44	0.82**	0.99	4.64	0.33	583.78	0.000	0.000	n/a	1.35	

Project File: HydraFlow.stm | Number of lines: 29 | Run Date: 2/11/2025

Notes: * depth assumed; ** Critical depth.; j-Line contains hyd. jump ; c = cir e = ellip b = box

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Appendix C

Earthwork Calculations

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

Cut/Fill Report

Generated: 2025-02-11 14:39:10

By user: dlapietra

Drawing: K:\Civil\2020\20.247 1789 Dodge Road, Amherst\03 - CIVIL\DWG\K:\Civil\2020\20.247 1789 Dodge Road, Amherst\03 - CIVIL\DWG\20.247 C-200.dwg

Volume Summary

Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Cut & Fill Report	full	1.000	1.000	203694.40	7308.39	11743.90	4435.51<Fill>

Totals

	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total	203694.40	7308.39	11743.90	4435.51<Fill>

* Value adjusted by cut or fill factor other than 1.0

Attachment: SUB-2024-02_PP application 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

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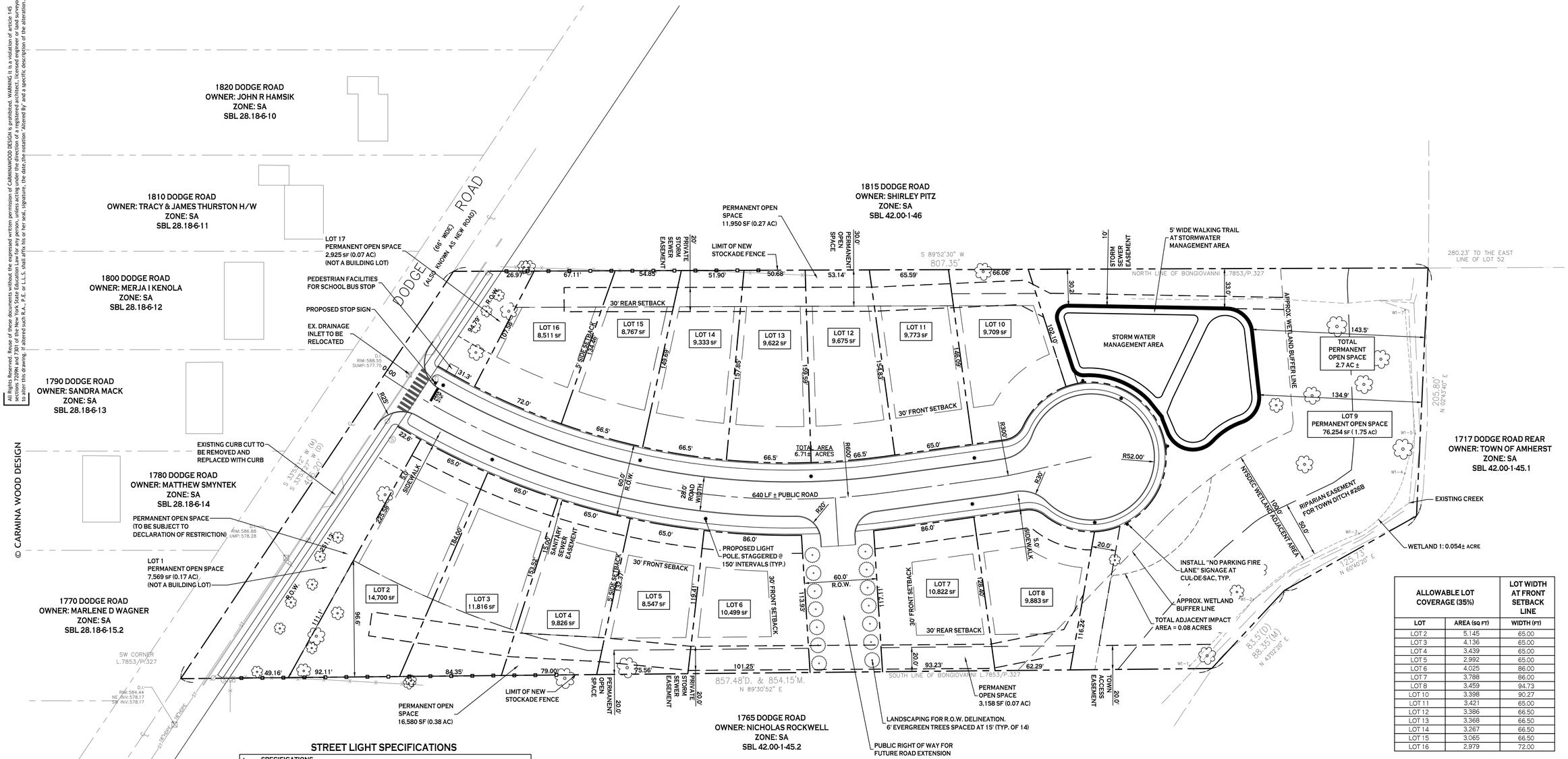

STREET LIGHT SPECIFICATIONS

A. SPECIFICATIONS
I. FIXTURE (LUMINAIRE): TOWN STANDARD TRADITIONAL POST TOP - SIGNIFY LED TOWNVIEW
A.A. MODEL NUMBER : TVPR-S3-S-16-G1-7-3W-730-A-N-R7-N-SP1-N-N-N-BKS
II. CORRELATED COLOR TEMPERATURE (CCT): 3,000K
i. FIXTURE HEIGHT: 16'
IV. DISTRIBUTION TYPE: 3 UNLESS LIGHT IS IN MEDIAN OR HAS SIMILAR APPLICATION MAY REQUIRE IN WHICH CASE 5. IF DISTRIBUTION OTHER THAN TYPE 3 IS USED, ADJUSTMENT TO MODEL NUMBER WILL BE REQUIRED.
V. WATTAGE: 35W
VI. NODE TYPE: WIRELESS LIGHTING CONTROL NODE COMPATIBLE WITH TOWN'S SYSTEM (VENDOR - VERIZON), INCLUDING INTEGRATION INTO EXISTING ASSET MANAGEMENT SYSTEM.
VII. POLES LABELED ACCORDING TO NGRID REQUIREMENTS.
VIII. SPACING: TYPICALLY, 150 FEET SPACING STAGGERED. UNLESS ROADWAY ARRANGEMENTS REQUIRE OTHERWISE. SUCH AS INTERSECTIONS OR COL-DES-SACS. POLES SHOULD BE LOCATED CENTERED BETWEEN EDGE OF ROAD AND SIDEWALK OR NO LESS THAN 3FT FROM THE EDGE OF THE ROAD. POLES SHOULD BE NO LESS THAN 10FT AWAY FROM TREES, 5 FT FROM MAILBOXES, AND 5FT FROM THE EDGE OF DRIVEWAYS.
IX. POLE TYPE: 16' NEW DIRECT BURIED TAPERED ALUMINUM POLE WITH ACCESS DOOR IN BASE OF POLE
A.A. MANUFACTURER: HAPCO (RTA16B5) (OR APPROVED EQUAL)

B. ILLUMINATION LEVEL:
i. ALL STREET LIGHTING SHALL BE DESIGNED SO THAT THE LEVEL OF ILLUMINATION, AS MEASURED IN FOOTCANDLES AT ANY ONE POINT, MEETS THE STANDARDS SET BY THE LATEST VERSION OF AMERICAN NATIONAL STANDARD'S ROADWAY LIGHTING ANSI APPROVED SPECIFICATION.
II. MINIMUM AND MAXIMUM LEVELS ARE MEASURED ON THE PAVEMENT WITHIN THE LIGHTED AREA. AVERAGE LEVEL IS THE OVERALL, GENERALIZED AMBIENT LIGHT LEVEL, AND IS MEASURED AS A NOT-TO-EXCEED VALUE. THE AVERAGE LEVEL SHALL BE CALCULATED USING ONLY THE AREA OF THE SITE INTENDED TO RECEIVE ILLUMINATION.
III. STREET LIGHTING SHALL NOT BE ORIENTED SO AS TO DIRECT GLARE OR EXCESSIVE ILLUMINATION ONTO PRIVATE PROPERTY.
IV. SUBMIT PHOTOMETRIC MODELS TO THE TOWN FOR REVIEW AND APPROVAL.

C. REQUIREMENTS:
I. REFER TO NATIONAL GRID UNDERGROUND REQUIREMENTS
II. REFER TO OTHER APPLICABLE TOWN CODES

PRELIMINARY PLAT

SCALE: 1"=40'

TOWN OF AMHERST ZONING CONDITIONS

THE SIX ZONING CONDITIONS IMPOSED BY THE TOWN BOARD ON JULY 22, 2024 IN CONNECTION WITH THE REZONING FROM 'SA' TO 'R-3' WERE AS FOLLOWS

1. THAT FUTURE DEVELOPMENT OF THE SITE SHALL BE LIMITED TO SINGLE FAMILY DETACHED RESIDENTIAL USES WITH A MAXIMUM YIELD OF FIFTEEN (15) HOMES.
2. THAT ANY FUTURE DEVELOPMENT OF A PRINCIPAL OR ACCESSORY STRUCTURE OR USES IN THE 2.7 ACRES OF PERMANENT OPEN SPACE SHALL BE PROHIBITED. THE ONLY PROPOSED DEVELOPMENT OF THE PORTION OF THE PERMANENT OPEN SPACE IS LIMITED TO REQUIRED STORMWATER MANAGEMENT SYSTEM IMPROVEMENTS AND UTILITY INFRASTRUCTURE.
3. THAT A PROTECTIVE COVENANT/CONSERVATION EASEMENT SHALL BE PLACED ON ALL PROPOSED OPEN SPACE AND CONFIRM TOTAL ACREAGE TO BE UNDERTHE CONTROL OF A HOMEOWNERS ASSOCIATION.
4. THAT THE FINAL PLAT DESIGN SHALL INCLUDE A RIGHT-OF-WAY ACCESS TO A POTENTIAL FUTURE YOUNGS ROAD EXTENSION.
5. THAT THE LANDSCAPING AND SCREENING TO BE PROVIDED IN THE PERMANENT OPEN SPACE ALONG THE DODGE ROAD FRONTAGE OF THE PROJECT SITE SHALL REQUIRE THE APPROVAL OF THE PLANNING BOARD AT THE PRELIMINARY PLAT APPLICATION STAGE OF THE SUBDIVISION REVIEW PROCESS.
6. ANY FUTURE PRELIMINARY PLAT THAT SHALL BE SUBMITTED TO THE PLANNING BOARD SHALL CONSIDER PROVISIONS FOR FUTURE ACCESS TO THE NORTH AND SOUTH OF THE SUBJECT PROPERTY.

SITE LEGEND

PROPERTY LINE
PROPOSED CONCRETE CURB
PROPOSED SIDEWALK / CONCRETE PAD
PROPOSED SIGN
PROPOSED STANDARD DUTY ASPHALT PAVEMENT
PROPOSED LIGHT POLE

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40' 40 0 40 80Ft.

SITE DATA (REZONED FROM SA TO R-3 ZONING)

AREA = 6.7 ACRES ±

MIN. LOT WIDTH = 65 FT INTERIOR LOTS
MIN. LOT WIDTH = 75 FT CORNER LOTS

MIN. LOT AREA = 8,450 SF INTERIOR LOTS
MIN. LOT AREA = 9,750 SF CORNER LOTS

FRONT SETBACK = 30 FT (OFF EDGE OF R.O.W.)
SIDE SETBACK = 5 FT
REAR SETBACK = 30 FT

MAXIMUM LOT COVERAGE = 35%
MAXIMUM BUILDING HEIGHT = 35 FT

MINIMUM FLOOR AREA = 1,000 SF (1 STORY)
MINIMUM FLOOR AREA = 1,200 SF (2 STORIES)

ALLOWABLE LOT COVERAGE (35%)		LOT WIDTH AT FRONT SETBACK LINE
LOT	AREA (SQ FT)	WIDTH (FT)
LOT 2	5,145	65.00
LOT 3	4,136	65.00
LOT 4	3,439	65.00
LOT 5	2,992	65.00
LOT 6	4,025	86.00
LOT 7	3,788	86.00
LOT 8	3,459	94.73
LOT 10	3,398	90.27
LOT 11	3,421	65.00
LOT 12	3,386	66.50
LOT 13	3,368	66.50
LOT 14	3,267	66.50
LOT 15	3,065	66.50
LOT 16	2,979	72.00

PERMANENT OPEN SPACE TABLE

LOT	AREA (SF)	AREA (AC)
LOT 1	7,569	0.17
LOT 9	76,254	1.75
LOT 17	2,925	0.07
REAR YARDS	31,688	0.72
TOTAL	118,426 SF	2.71 AC

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Single Family Subdivision

1789 Dodge Road
Amherst, New York

REVISIONS: No.	Description	Date
1	Rev. Per Town Comments	11/11/2024
2	Rev. Per Town Comments	3/20/2025
3	Rev. Per Town Comments	4/16/2025
4	Rev. Permanent Open Space	5/13/2025
5	Rev. Per Town Comments	5/23/2025

STATE OF NEW YORK R. CHRISTOPHER WOOD 070394 LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Preliminary Plat

Date: 01/29
Drawn By: C. W.
Scale: As No

DRAWING NO.
P-100

Project No: 20.247

Attachment: SUB-2024-02_PP drawings 062625 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

TOWN OF AMHERST
PLANNING BOARD
PRELIMINARY PLAT RESOLUTION
SUB-2024-02_PP

PETITIONER

Joseph Rubino
c/o Sean Hopkins, Esq.
Hopkins Sorgi & McCarthy
35 California Dr., Suite 100
Williamsville, NY 14221

PROPERTY LOCATION

1789 Dodge Road

AUG 5 2025 PM2

WHEREAS, the Town of Amherst Planning Board on Thursday, June 26, 2025 held **and closed** a public hearing on a Preliminary Plat for a 17-sublot subdivision on 6.7 acres for 14 single-family building lots, "Willink Court", located at 1789 Dodge Road; and

WHEREAS, the Planning Board had reviewed plans and specifications for the proposed Subdivision, and

WHEREAS, the Subdivision had been referred to the Town's various review agencies; and

WHEREAS, the Planning Board had reviewed comments from the Town's various review agencies; and

WHEREAS, the Planning Board had only five of seven members present at its June 26, 2025 Board meeting; and

WHEREAS, Motions were made on the 1789 Dodge Road Application to approve the Preliminary Plat for the Proposed subdivision together with Motions to deny a request to waive the required stub road and to approve a waiver of sidewalks on the stub road; and

WHEREAS, the Motions and subsequent votes created great confusion as to their outcome and effect; and

WHEREAS, both the Applicant, through their attorney and members of the Public objected to the Motions and their potential results;

NOW THEREFORE BE IT RESOLVED, that the Planning Board **rescinds its actions taken on June 26, 2025 regarding the Motions made and the results thereof related to the 1789 Dodge Road application in their entirety and adjourns any further action until the regularly scheduled Planning Board meeting of August 21, 2025;**

Attachment: SUB-2024-02PP signed resolution 072425 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

TOWN OF AMHERST
PLANNING BOARD
PRELIMINARY PLAT RESOLUTION
SUB-2024-02_PP

PETITIONER

Joseph Rubino

PROPERTY LOCATION

1789 Dodge Road

AUG 5 2025 PM

The foregoing resolution was adopted by the Town of Amherst Planning Board, July 24, 2025; moved by Penberthy; seconded by O'Rourke; ayes 6; noes 0; absent 1 (Gill).

There being no further action the matter was adjourned by Penberthy and seconded by Kahn; ayes 6; noes 0; absent 1 (Gill).

Michael J. Chmiel, Planning Board Chair

7/24/25
Date

GP/ac
X:\Current_Planning\Files\Subdivisions\SUB-2024\SUB-2024-02_(1789_Dodge_Rd)_2024\SUB-2024-02_PP_(1789_Dodge_Rd)_2025\SUB-2024-02_PP_resolution_07242025.doc

cc: Commissioner of Building
Town Engineer
Highway Superintendent
Fire Chiefs Council
ECDEP
Town Attorney
Sean Hopkins, Hopkins, Sorgi & McCarthy, 35 California Dr., Suite 100, Williamsville, NY 14221
Carmina Wood Morris, Dan LaPierta, 80 Silo City Row, Buffalo, NY 14203
Joseph Rubino, 5462 Sheridan Dr., Suite 2, Williamsville, NY 14221

Approved Plan: Carmina Wood Design
Received: May 30, 2025

Attachment: SUB-2024-02PP signed resolution 072425 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

TOWN OF AMHERST
PLANNING BOARD
PRELIMINARY PLAT RESOLUTION
SUB-2024-02_PP

PETITIONER

Joseph Rubino
c/o Sean Hopkins, Esq.
Hopkins Sorgi & McCarthy
35 California Dr., Suite 100
Williamsville, NY 14221

PROPERTY LOCATION

1789 Dodge Road

AUG 29 2025 AMB

Attachment: SUB-2024-02PP signed resolution 082125 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

WHEREAS, the Town of Amherst Planning Board on Thursday, June 26, 2025 held and closed a public hearing on a Preliminary Plat for a 17-sublot subdivision on 6.7 acres for 14 single-family building lots, "Holland Heights", located at 1789 Dodge Road; and

WHEREAS the Planning Board has reviewed plans and specifications for the proposed Subdivision, and

WHEREAS the Subdivision has been referred to the Town's various review agencies, and

WHEREAS the Planning Board finds that:

1. The proposed subdivision is consistent with the intent, objectives and specific requirements of the Zoning Ordinance.

2. Adequate services and utilities are or will be available prior to occupancy.

3. The Subdivision is consistent with all other applicable laws.

4. Pursuant to Local Law #3-82, as amended, the Planning Board has determined that the requirements of SEQR are complete, a Negative Declaration has been issued, and that the subject proposal is not expected to have a significant adverse effect on the environment.

5. In accordance with the Article 24 Freshwater Wetlands Regulations, the New York State Department of Environmental Conservation has determined that it has jurisdiction over the required wetlands permitting.

NOW THEREFORE BE IT RESOLVED that the Planning Board in accordance with the criteria in Chapter 204, Part 4, Section 7A grants the requested waiver to §204-3-2-4c(5) of Town Code requiring development of the stub street to the southerly property line, as shown on drawing P-100 dated July25, 2025 prepared by Carmina Wood Design to retain the area as "greenspace", and

NOW THEREFORE BE IT FURTHER RESOLVED that the Planning Board, in accordance with Section 8-7 of the Zoning Ordinance and Part III of the Subdivision Regulations approves said Subdivision subject to the follow condition(s):

TOWN OF AMHERST
PLANNING BOARD
PRELIMINARY PLAT RESOLUTION
SUB-2024-02_PP

PETITIONER

Joseph Rubino

PROPERTY LOCATION

1789 Dodge Road

AUG 29 2025 AMB

1. That no driveway access be granted to the stub street southerly from proposed sublots #6 and #7 and deed restrictions as such be filed with Erie County Clerk's Office on those two lots.

2. That the comments raised in the Town of Amherst Engineering Department's (Sanitary Division) letter dated July 30, 2025 are addressed to the satisfaction of that department prior to submittal of a final plat.

3. That the comments raised in the Town of Amherst Engineering Department - Engineering Services Division's letter dated July 1, 2025 are addressed to the satisfaction of that department prior to submittal of a final plat.

4. That the comments raised in the Town of Amherst Engineering Department - Stormwater Management Officer's letter dated June 16, 2025 are addressed to the satisfaction of that officer prior to submittal of a final plat.

5. That the comments raised in the Amherst Traffic Safety Board letter dated July 7, 2025 are addressed to the satisfaction of that Board prior to submittal of a final plat.

6. That an address plan for the subdivision is approved prior to issuance of any building permits for homes within the subdivision as required by the Amherst Fire Chief's Association letter dated June 2, 2025.

7. That the subdivision name and proposed street name be approved prior to submittal of a final plat.

8. That the comments raised in the Town of Amherst Planning Department letter dated August 11, 2025 are addressed to the satisfaction of that department prior to submittal of a final plat.

NOW THEREFORE BE IT FURTHER RESOLVED that Willink Court and the to be named stub street be classified as local streets and that sidewalks are required and that the required ramps and/or curb cuts to meet ADA compliance be included and constructed with the P.I.P. for the roadway utilities.

NOW THEREFORE BE IT FURTHER RESOLVED that the sidewalks along the cul-de-sac (Lot #1, 9 and 17) and those sidewalks on the east and west side of the southerly stub street (Lot # 6 and Lot #7) and the bus stop pad be required and constructed with the PIP for the roadway and utilities.

Attachment: SUB-2024-02PP signed resolution 082125 (30672 : SUB-2024-02_PP, 1789 Dodge Road)

TOWN OF AMHERST
PLANNING BOARD
PRELIMINARY PLAT RESOLUTION
SUB-2024-02_PP

PETITIONER

Joseph Rubino

PROPERTY LOCATION

1789 Dodge Road

AUG 29 2025 AMB

NOW THEREFORE BE IT FURTHER RESOLVED in reviewing the proposed subdivision and §204-3-2 O of Town Code that street lighting and associated lighting district is required and that the required street lighting be constructed under a P.I.P. for the proposed subdivision.

NOW THEREFORE BE IT FURTHER RESOLVED that recreation fees are required for the proposed subdivision lots in accordance with the adopted fee schedule.

The foregoing resolution was adopted by the Town of Amherst Planning Board, August 21, 2025; moved by O'Rourke; seconded by Raffaele; ayes 5; noes 1 (Gill); absent 1 (Penberthy).

Michael J. Chmiel, Planning Board Chair

8/28/25
Date

GP/ac
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cc: Commissioner of Building
Town Engineer
Highway Superintendent
Fire Chiefs Council
ECDEP
Town Attorney
Sean Hopkins, Hopkins, Sorgi & McCarthy, 35 California Dr., Suite 100, Williamsville, NY 14221
Carmina Wood Morris, Dan LaPierta, 80 Silo City Row, Buffalo, NY 14203
Joseph Rubino, 5462 Sheridan Dr., Suite 2, Williamsville, NY 14221

Approved Plan: Carmina Wood Design
Received: August 1, 2025

Attachment: SUB-2024-02PP signed resolution 082125 (30672 : SUB-2024-02_PP, 1789 Dodge Road)