MINUTES
TOWN OF AMHERST
AMHERST PLANNING BOARD MEETING
October 17, 2024
6:30 PM

The Planning Board will hold a public work session at 6:00 PM 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	Absent	
Dal Giuliani	Town of Amherst	Board Member	Present	
Carrie H. Kahn	Town of Amherst	Board Member	Absent	
Brittany Lee Penberthy	Town of Amherst	Board Member	Present	
Joseph P. Raffaele Jr.	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	
James Quinn	Town of Amherst	Assistant Planner	Present	

Amy Carrato	Town of Amherst	Community Development Assistant	Present	
Samuel A. Alba	Town of Amherst	Interim Town Attorney	Present	
Jacqualine Berger	Town of Amherst	Councilmember	Present	

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 AMHERST DEVELOPMENT PARK - BUILDING ADDITION, SP-1988-11P
Property located at 6000-6020 N. Bailey Avenue (BCD)
Benderson Development Co. LLC, Petitioner

Proposed 10,069 square foot building addition to the western end of #6010 Bailey Avenue and reconfiguration/expansion to the parking area on the north side of the development south of Romney Road to provide additional 139 parking spaces on site bringing the total parking to 591 spaces. The petitioner has indicated that they will also be requesting a waiver of required sidewalks along Romney Road.

September 19, 2024

James Boglioli, Esq., Benderson Development Co. LLC, represented the petitioner, explained the proposal and was available to answer questions from the Board.

In response to the Board's questions, Mr. Boglioli stated Benderson is not moving forward with the previous Delta Sonic site plan and shopping centers are located nearby but are not a part of this site plan.

No further comments were heard on this proposal.

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

October 17, 2024

No comments were heard on this proposal.

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

RESULT:	**ADJOURNED [UNANIMOUS]**	**Next: 11/21/2024 6:30 PM**
MOVER:	Brittany Lee Penberthy, Board Member	
SECONDER:	Dal Giuliani, Board Member	
AYES:	Chmiel, Davis, Giuliani, Penberthy, Raffaele Jr.	
ABSENT:	Gill, Kahn	

2. PROPOSED AUDUBON GOLF COURSE - DRIVING RANGE IMPROVEMENTS, SP-1993-13C
Property located at 500 Maple Road
Town of Amherst, Petitioner

Proposal to remove existing netting system and install a new 700' long wooden pole supported netting system with a maximum height of 60' on the east and west side of the golf driving range**.**

Michael Hitzel, Architect, Town of Amherst Engineering Department, represented the petitioner, explained the proposal and was available to answer questions from the Board.

In response to the Board's questions, Mr. Hitzel stated the height of the proposed netting and poles is the recommendation of a golf architect and that there is currently no fencing near one of the golf course holes.

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

Following discussion, Mr. Giuliani moved to approve the Negative Declaration. The motion was seconded by Mr. Raffaele and carried. Ayes 5, Noes 0, Absent 2 (Gill, Kahn).

Following the approval of the Negative Declaration, Mr. Giuliani moved to approve the request based on the resolution. The motion was seconded by Mr. Davis and carried. Ayes 5, Noes 0, Absent 2 (Gill, Kahn).

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Dal Giuliani, Board Member
SECONDER:	John B. Davis, Board Member
AYES:	Chmiel, Davis, Giuliani, Penberthy, Raffaele Jr.
ABSENT:	Gill, Kahn

SUBDIVISIONS & RELIEF FROM CONDITIONS OF SUBDIVISIONS

3. PROPOSED SKETCH PLAN FOR A 19-LOT SUBDIVISION "DODGE ROAD SUBDIVISION", SUB-2024-02_SK
Property located at 1789 Dodge Road
Joseph Rubino, Petitioner

Proposal to subdivide 6.7± acres of land into 18 sub-lots, 3 of the lots are for permanent open space and drainage.

October 17, 2024

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

In response to the Board's questions, Mr. Hopkins stated there will be fencing along a portion of the north and south property line, a meeting with the neighbors will take place during the preliminary plat phase, and that a larger sidewalk area could be installed on Dodge Road for students waiting for the school bus.

William Pitz, 1815 Dodge Rd.; Sandy Mack, 1790 Dodge Road; Nancy Fender, 101 Main St.; and Cheryl Anastasia, 1816 Dodge Road spoke in opposition of the proposal.

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

Following discussion, Mr. Giuliani moved to approve the request based on the resolution. The motion was seconded by Mr. Davis and failed. Ayes 3, Noes 2 (Penberthy, Raffaele), Absent 2 (Gill, Kahn).

Following discussion, Ms. Penberthy moved to adjourn the request until the November Planning Board meeting. The motion was seconded by Mr. Giuliani and passed. Ayes 5, Noes 0, Absent 2 (Gill, Kahn).

Following discussion, Mr. Penberthy moved to keep the public hearing open at the November Planning Board meeting. The motion was seconded by Mr. Giuliani and passed. Ayes 5, Noes 0, Absent 2 (Gill, Kahn).

RESULT:	**ADJOURNED [UNANIMOUS]**	**Next: 11/21/2024 6:30 PM**
MOVER:	Brittany Lee Penberthy, Board Member	
SECONDER:	Dal Giuliani, Board Member	
AYES:	Chmiel, Davis, Giuliani, Penberthy, Raffaele Jr.	
ABSENT:	Gill, Kahn	

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

None

SUBDIVISIONS & RELIEF FROM CONDITIONS OF SUBDIVISIONS

None

REZONING & RELIEF FROM CONDITIONS OF REZONINGS

None

MISCELLANEOUS

4. 2025 PLANNING BOARD MEETING CALENDAR

Approved with Changes (in italics)

Planning Board Meeting
Thursday 6:30 Pm

1/16/2025
2/20/2025
3/20/2025
4/17/2025
5/15/2025
6/19/2025
No July Meeting
08/21/2025
09/18/2025
10/16/2025
11/20/2025
No December Meeting
01/15/2026
2/19/2026

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Brittany Lee Penberthy, Board Member
SECONDER:	Dal Giuliani, Board Member
AYES:	Chmiel, Davis, Giuliani, Penberthy, Raffaele Jr.
ABSENT:	Gill, Kahn

OTHER COMMUNICATIONS

None

DIRECTOR'S REPORT

MINUTES APPROVAL

September 19, 2024
Ms. Penberthy moved to approve the minutes. The motion was seconded by Mr. Giuliani and carried. Ayes 5, Noes 0, Absent 2 (Gill, Kahn).

ADJOURNMENT

The Planning Board meeting of October 17, 2024 was adjourned at 7:41 pm.

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

Meeting: 10/17/24 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: 28252 A

TABLED

PLANNING BOARD ITEM (ID # 28252)

Proposed Amherst Development Park - Building Addition, SP-1988-11P

Property located at 6000-6020 N. Bailey Avenue (BCD)
Benderson Development Co. LLC, Petitioner

Proposed 10,069 square foot building addition to the western end of #6010 Bailey Avenue and reconfiguration/expansion to the parking area on the north side of the development south of Romney Road to provide additional 139 parking spaces on site bringing the total parking to 591 spaces. The petitioner has indicated that they will also be requesting a waiver of required sidewalks along Romney Road.

September 19, 2024

James Boglioli, Esq., Benderson Development Co. LLC, represented the petitioner, explained the proposal and was available to answer questions from the Board.

In response to the Board's questions, Mr. Boglioli stated Benderson is not moving forward with the previous Delta Sonic site plan and shopping centers are located nearby but are not a part of this site plan.

No further comments were heard on this proposal.

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

October 17, 2024

No comments were heard on this proposal.

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

HISTORY:

09/19/24	**Planning Board**	**ADJOURNED**	**Next: 10/17/24**

ATTACHMENTS:

- SP-1988-11P_application_091924 (PDF)
- SP-1988-11P_drawings_091924 (PDF)
- SP-1988-11P_application updated 090924_091924 (PDF)
- SP-1988-11P_drawings updated 090924_091924 (PDF)

RESULT:	**ADJOURNED [UNANIMOUS]**	**Next: 11/21/2024 6:30 PM**
MOVER:	Brittany Lee Penberthy, Board Member	
SECONDER:	Dal Giuliani, Board Member	
AYES:	Chmiel, Davis, Giuliani, Penberthy, Raffaele Jr.	
ABSENT:	Harbinder Gill, Carrie H. Kahn	

TOWN OF AMHERST

APPLICATION & REVIEW PROCEDURE

MAJOR SITE PLAN

MATERIALS MUST BE PROVIDED IN AN ELECTRONIC FORMAT THAT CONTAINS PDF FILES OF THE APPLICATION, EAF, SITE PLAN DRAWING SET SURVEY, LANDSCAPE PLAN, PRELIMINARY BUILDING FLOO PLANS / ELEVATIONS & ANY OTHER SUPPORTING INFORMATION. THIS MUST BE SUBMITTED WITH YOUR APPLICATION. APPLICATIONS WILL NOT BE TRANSMITTED WITHOUT THIS ELECTRONIC INFORMATION.

THIS ALSO APPLIES TO REVISED MATERIALS THAT AR SUBMITTED.

This application package includes the following:

- Application Procedures
- Application Form & Checklist
- Stormwater Pollution Prevention Plan Checklist
- Appendix A Town of Amherst EAF Addendum
- Appendix B Criteria for Required 8½" x 11" Sketches
- Appendix C Erie Sewer District No. 5 – Commercial / Industrial New & Existing Buildings Requirements

- IMPORTANT-

1. A pre-submittal consultation with Planning Department staff is *strongly recommended* prior to submitting an application. The pre-submittal meeting gives the applicant an opportunity to discuss with staff such items as:
   - classifying the action as a major site plan, minor site plan, or minor site plan adjustment;
   - determining what specific information will be required to be submitted with the application;
   - identifying and discussing issues that must be addressed as part of the SEQR review;
   - identifying any potential variances required to implement the project as proposed.

   An appointment is required for all meetings with Planning Department staff.

2. This site plan petition is subject to the requirements of 6 NYCRR Part 617, State Environmental Quality Review Act (SEQR), and Chapter 104 of the Town of Amherst Code, as amended. The Planning Board cannot make a SEQR determination unless a complete Environmental Assessment Form (EAF), including Town of Amherst EAF Addendum, and any required supplementary information such as traffic impact studies, archaeological reports, wetland delineations or geotechnical reports, are submitted. SEQR issues may be discussed with Planning Department staff at a recommended pre-submittal meeting. Unlisted Actions require a Short EAF; Type I Actions require a Full EAF. The following is a link to the NYSDEC website and fillable forms with instructions*:*
   http://www.dec.ny.gov/permits/6191.html.

3. **Review by the Town Design Advisory Board (DAB) is required for Major Site Plans located in the following Mixed-Use zoning districts:**

   Traditional Infill 2.5 (TI-2.5)
   Traditional Infill 4 (TI-4)
   Shallow Corridor 3 (SC-3)
   Deep Corridor 3 (DC-3)
   Deep Corridor 5 (DC-5)
   Center 2.5 (CTR-2.5)
   Center 5 (CTR-5)
   Center 8 (CTR-8)

   The application for DAB review is required to be filed in conjunction with the major site plan application.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

4. The application shall be executed or consented to in writing by the owner of the property.

5. **Any variances from the Zoning Board of Appeals, or any decision from the Town Board (e.g. removal of deed restrictions) must be obtained prior to action by the Planning Board on a Site Plan application.**

6. Submittal of an application grants permission to Town staff and Planning Board members to access the parcel(s) under consideration.

7. All site plan drawings must be prepared by a Registered Architect, Professional Engineer, Landscape Architect, or Land Surveyor (as applicable) licensed to practice in New York State.

8. If you wish to include a Coordinated Sign Plan application with the site plan petition, a separate application must be completed. Contact the Planning Department for a copy of a Coordinated Sign Plan application package.

9. All drawings should be no larger than 24 in. x 36 in. If site characteristics warrant larger plan sheets, they may be accepted subject to Planning Department concurrence. All drawings must also reserve a 4 in. x 6 in. area in the lower right hand corner for official Town use.

APPLICATION PROCEDURES

1. Applicant secures application package from the Planning Department, 5583 Main Street, Williamsville, NY 14221. (716) 631-7051. Forms are also available online at: www.amherst.ny.us, (keyword: Planning).

2. Applicant prepares information as required on the Site Plan Submittal Checklist, attached. NOTE: Some proposals may not require all items on the checklist; please verify with the Planning Department.

3. Applicant schedules an appointment with the Planning Department to review the following:
   - a complete set of site plan drawings, preliminary building elevations and floor plans (no larger than 24" x 36" in size)
   - Environmental Assessment Form (EAF) & Town EAF Addendum
   - any supporting reports and materials
   - verification from the Town Assessor that the address in the application is correct

4. Applicant schedules an application submittal appointment with the Planning Department. NO SITE PLAN WILL BE ACCEPTED FOR REVIEW WITHOUT A PRE-SET SUBMITTAL APPOINTMENT.

5. At the submittal appointment, applicant provides fourteen (14) complete and collated sets of drawings and application information to the Planning Department **(materials will not be accepted unless folded into 9" x 12" in size),** including**:**
   - application form
   - Environmental Assessment Form (EAF)
   - supporting reports / materials
   - complete set of site plan drawings, preliminary building elevations and floor plans (**at least one (1) set of drawings must bear a raised or wet seal and signature of the design professional** who prepared the plans; the remaining copies may be submitted with a facsimile of the seal and signature)
   - digital files of all materials in pdf format
   - an 8½" x 11" reduction of the sketch plan or plat drawing (see Appendix B)

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

6. After approval for filing by the Planning Department, applicant submits all necessary fees to the Town Clerk. **(See Schedule of Fees on first page of application and make checks payable to: Town of Amherst.)**

7. The applicant returns a copy of the filing receipt to the Planning Department.

8. The Planning Department transmits remaining thirteen (13) copies of the application and supporting materials to:
   - Assessor
   - Commissioner of Building
   - Town Engineer
   - Superintendent of Highways
   - Traffic/Safety Board
   - Fire Chiefs' Association
   - Plumbing Division
   - Right-of-Way Agent
   - Police Department (if applicable)
   - Zoning Enforcement Officer
   - Other Town and outside agencies, as applicable

9. Within 30 days of its receipt of the complete application for Site Plan approval, each agency completes its review and notifies the Planning Department in writing of its comments or recommendations as required by Ordinance.

10. The applicant may be required to submit revised plans, reports, or materials to address review agency comments. The procedures for submittal of revised plans are as follows:

    - A cover letter addressing all comments received to date is required.
    - "Highlight" the area of change on the drawings and provide a notation describing the change.
    - Revised plans/materials are required. Planning staff should be contacted to determine the number of sets needed.
    - All revised plans and materials must also be provided in an electronic format that contains pdf files of the revised information.

11. The Planning Board reviews the EAF to determine whether a Draft Environmental Impact Statement (DEIS) is required. The petitioner will be advised in the event that a DEIS is required and afforded the opportunity to prepare it. If the petitioner declines, the Planning Board will prepare the DEIS at the petitioner's expense. The public hearing will be held on the DEIS concurrently with the Planning Board hearing on the application.

12. Planning Board Meeting Procedures:

    The applicant or representative presents the project at the public hearing before the Planning Board and is available to answer any questions. The Planning Board may take any of the following actions:

    - Adjourn the hearing to a future Planning Board meeting (hearing remains open).
    - Close the hearing and table action on the site plan to a future Planning Board meeting. (The Planning Board may remove the item from the agenda until such time as all required information is provided.)
    - Close the hearing and make a decision on the site plan.

    All determinations on matters before the Planning Board are made after all public hearings on that meeting's agenda are completed.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

13. A copy of the Planning Board's determination will be provided to the applicant, his / her representative, the Building Commissioner and the Town Clerk approximately 1 week following the Planning Board meeting at which it was heard.

14. If the Planning Board approves a Site Plan with conditions, the Planning Department will work with the applicant to ensure that all conditions of the approval are satisfactorily addressed. When all conditions are satisfied, the applicant submits **seven (7) final copies** of the complete set of all site plan drawings, folded into 9" x 12". For site plans in the Mixed-Use zoning districts, building elevations will also be required.

    All 7 sets must have original wet seals and include the required 4 in. x 6 in area in the lower right hand corner for official Town use. These drawings will be stamped and signed "Approved" by the Planning Director and transmitted to Town Departments for their files and use.

15. A building permit will not be issued by the Building Department until the stamped and signed Site Plan is issued by the Planning Director.

NOTE: Please check with the Planning Department to determine the deadline date for filing applications. Due to the public hearing notice requirements and department reviews, no site plan application will be placed on the Planning Board agenda after the deadline for filing has closed. Scheduling may be delayed if an application is incomplete.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: Benderson Development Company, LLC

Address: 570 Delaware Avenue

Buffalo , New York 14202

city state zip code

Phone: 716-878-9626 Fax: _____

E Mail: _____

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

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

Name: James A. Boglioli

Address: 570 Delaware Avenue

Buffalo , New York 14202
city state zip code

Phone: 716-878-9626 Fax:

E Mail: jmb@benderson.com

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

Address: 6000 - 6040 North Bailey Avenue

SBL No(s): 54.14-1-12.211, 54.14-1-12.211/A, 54.14-1-12.211/B

Project Name: Two Building additions 5,441sf & 14,554sf

Project Description: Please see the attached letter of intent

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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):

Please see the attached letter of intent

	existing	proposed	total
Gross Floor Area (non-residential):	246,740	266,735	+19,995
Gross Floor Area Residential:	N/A	N/A	N/A
Number of Residential Units:	N/A	N/A	N/A
Number of Parking Spaces:	452	688	+236

Acreage of Parcel: 17.43

(list each parcel separately)

Frontage on Public Roads: Romney: 945'

(list each road separately) N. Bailey: 445.6'

Existing Zoning District(s) R-D

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Site Plan Submittal Requirements and Checklist

The following checklist outlines the information required by the Planning Department to accept a Site Plan application for review. ***It is strongly recommended that you make an appointment with Planning Staff to determine which items apply to your application***.

Item No.	Item	Submitted	Official use
I Basic Drawing Information			
1.0	**Drawing size not to exceed 24" x 36"**		
2.0	**Title of Drawing**		
3.0	**Name and address of Applicant**		
4.0	**Name of person preparing drawing**		
5.0	**Wet seal/raised seal and signature of NYS licensed architect, engineer, landscape architect, or surveyor (as applicable)**		
6.0	**Project address**		
7.0	**Zoning of subject property and adjacent parcels**		
8.0	**North point, scale, date, and revision date(s)**		
9.0	**4" x 6" reserved area in lower right hand corner for official Town use**		
II Structures, Paved Areas, & Open Space			
1.0	**Existing and Proposed Streets**		
1.1	Names of all existing and proposed streets		
1.2	Width and radii of proposed curb-cuts		
1.3	Existing curb-cuts on adjacent and opposite properties		
1.4	Show ROW width, pavement dimensions, lane widths, pavement markings, and proposed signage on proposed streets		
1.5	Show proposed ROW consistent with planned NYSDOT, Erie County, or Town road projects (if applicable)		
1.6	Show location of proposed cross access to adjacent parcels along with a draft easement		
1.7	Designation of Fire Lanes (if applicable)		
1.8	Fire apparatus access roads		
1.9	Label any proposed roads as public or private		
1.10	Location and dimensions of sidewalks		
1.11	Typical cross sections and profiles of proposed streets, pedestrian walkways, and bikeways		
2.0	**Proposed Structures**		
2.1	Location and complete dimensions of proposed structures		
2.2	Setback dimensions of structure(s) to all property lines		
2.3	Proposed use of structures		
2.4	Gross square feet area of each structure		
2.5	Location of all building entrances		
2.6	Indicate type of roof construction/materials		
2.7	Location, height, and design detail of existing and proposed fences and walls		
2.8	Location of light standards and building mounted lights		
2.9	Location of dumpster and detail of dumpster enclosure with gate		
2.10	Layout and dimensions of the lot(s) proposed for development		

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Item No.	Item	Submitted	Official use
II Structures, Paved Areas, & Open Space (cont'd)			
3.0	**Floor Plans with individual rooms and spaces labeled** (fully dimensioned)		
4.0	**Building elevations with height dimensions from finished grade to the highest point of the roof and to midpoint of gable or hip of a pitched roof.** (fully dimensioned)		
4.1	Show screening of mechanical equipment		
5.0	**Parking/Loading/Stacking Areas**		
5.1	Location and complete dimensions of all paved areas		
5.2	Setback dimensions of all paved areas to property lines		
5.3	Dimension of typical parking space and drive aisles		
5.4	Location and layout of handicapped parking spaces & access aisles		
5.5	Detail of vertical signage for handicapped parking and access aisles		
5.6	Indicate minimum parking requirement & number of spaces provided		
5.7	Proposed signage for directing and guiding traffic		
5.8	Curb cut permits from NYS, Erie County, or Town (if applicable)		
5.9	Pedestrian connections (from proposed structures to public sidewalk network)		
6.0	**Location and proposed development of all open spaces, including parks, playgrounds, and open reservations**		
III Utilities and Drainage			
1.0	**Engineers Report** (bound separately from the Stormwater Pollution Prevention Plan [SWPPP])		
1.1	Stamped/sealed and signed by NYS licensed architect or professional engineer		
1.2	Proposed water service sizing, RPZ pressure and fire safety flow and pressure calculations		
1.3	Proposed sanitary sewer facility load calculations (avg. & peak flows) including calculation of the peaking factor		
1.4	Proposed storm drainage facility calculations (see information included with this application)		
2.0	**Grading Plan**		
2.1	Existing and proposed grades indicated (proposed grades may not exceed 1 on 3)		
3.0	**Water Service**		
3.1	Location, size and material of existing and proposed facilities		
3.2	Location of existing and proposed fire hydrant location(s)		
3.3	Indicate use of sprinklers, location of Fire Department connection, and proposed fire protection systems		
3.4	Existing and proposed meter/RPZ size and location		
3.5	Applicable construction details		
4.0	**Sanitary Sewers**		
4.1	Locations, sizes, slopes, inverts, and materials of all existing and proposed facilities		

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Item No.		Submitted	Official use
III Utilities and Drainage (cont'd)			
4.2	Applicable construction details		
4.3	Proposed water/oil/grease interceptor sizing calculations by a professional engineer (if applicable)		
5.0	**Storm Drainage**		
5.1	Locations, sizes, slopes, inverts, and materials of existing and proposed storm drainage facilities		
5.2	Connection of roof drains to proposed drainage system		
5.3	Applicable Town Standard construction details		
5.4	Existing and proposed swales and ditches		
5.5	Detention area cross-section and high-level elevations		
5.6	County and State approval for tie-in to existing sewers		
6.0	**Stormwater Pollution Prevention Plan (SWPPP) as applicable** (bound separately from the Engineer's Report) **See attached checklist.**		
7.0	**Natural Gas Service**		
8.0	**Location of transformers, generators and other mechanical equipment; include detail drawings (if applicable)**		
9.0	**Downstream Sanitary Capacity Analysis (DSCA) Report** (must be submitted if proposed average flows are greater than 2,500 gallons per day)		
9.1	The DSCA Report must include a detailed downstream sewer capacity analysis and the calculations of and commitment to (via Developer commitment letter) the required financial contribution to the Town's I/I mitigation fund based on peak flow conditions. The contribution must be based on $250 per gallon per minute of mitigated flow		
IV Lighting Plan			
1.0	**Photometric plan showing light spread in foot candles at property lines**		
1.1	Detail of all light standards, including dimension of height from finished grade		
1.2	Detail of all exterior lighting fixtures		
V Landscape Plan			
1.0	**Wet/raised seal and signature of a licensed Landscape Architect**		
2.0	**Provide a calculation of the total Parking area and a calculation of interior parking area in square feet and as a percentage**		
3.0	**Indicate location, size, number and type of proposed landscape materials**		
4.0	**Indicate location, type and size of <u>all</u> existing trees 4" caliper or larger and indicate which will be removed or retained**		
VI Other Required Information/General Requirements			
1.0	**Complete boundary survey that includes all existing structures, acreage, legal description with reference to a property line, street, or other known feature, and easements plotted to scale by a NYS licensed land surveyor**		

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Item No.		Submitted	Official Use
VI Other Required Information/General Requirements (cont'd)			
1.1	Copies of all easements, reciprocal access agreement or similar leag documents		
2.0	**Topographic Survey with a 30 ft. buffer outside all property lines by a NYS licensed land surveyor**		
3.0	**Draft of any deed restrictions, covenants, provisions for home associations and common ownership, and reciprocal easement agreements (as applicable).**		
4.0	**For assessment purposes, state intent to apply for condominium status (if applicable).**		
5.0	**Completed and signed Environmental Assessment Form**		
5.1	Soil boring report and geotechnical report prepared by a qualified Professional Engineer (if applicable)		
5.2	Traffic Impact Study (if applicable)		
5.3	Archaeological survey (if applicable		
5.4	Wetland Delineation report (if applicable)		
6.0	**Show existing zoning(s) of both the subject property and adjacent parcels on the Site Plan and the Landscape Plan**		
7.0	**Location of NYSDEC wetlands (including buffer area) and/or federal wetlands; indicate jurisdictional status**		
8.0	**Location of Floodway and floodplain** (if applicable)		
9.0	**Documentation pertaining to any conditions of zonings, including copies of required deed restrictions; indicate date of rezoning and the parcel address under which it was rezoned (if applicable)**		
10.0	**Documentation related to any required variances granted by the ZBA**		
11.0	**For residential site plans, provide a statement from the appropriate school district that adequate school sites and facilities are available.**		
12.0	**8 1/2" X 11" reduction of primary site plan drawing (see appendix "B" of application package for specifications)**		
13.0	**A CD containing a PDF of all site plan drawings (Must also be provided with revised drawings)**		
VII Additional Required Information for Projects in the Mixed Use Districts			
1.0	**Design Advisory Board Application**		
1.1	Required for Major Site Plan		
1.2	Required at the Planning Directors Discretion for Minor Site Plans		
2.0	**Block & Street Network Plan**		
2.1	Designation of Core, Local & Alley streets		
2.2	Dimensions of Blocks		
3.0	**Block Usage Plan (as applicable)**		
3.1	Designation of site usage for each block including open space areas		
4.0	**Phasing Plan**		

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

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:
   _____
   _____

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_____
   _____

   (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_____
   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:
    _____ average flow _____ 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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

BENDERSON DEVELOPMENT
570 DELAWARE AVENUE
BUFFALO, NY 14202
716.886.0211.P 716.886.2269.F

November 15, 2023

VIA HAND DELIVERY
Robert J. Gilmour., Chair
Members of the Planning Board
Town of Amherst
5583 Main Street
Williamsville, NY 14221

Re: Application for Site Plan Approval
6000 – 6040 North Bailey Ave, Amherst, New York (BDC: 1723)

Dear Chair Gilmour and Members of the Planning Board:

In connection with the above-referenced property, Benderson Development Company, LLC and Delta Sonic Carwash Systems, Inc. is seeking to relocate its office from downtown Buffalo to Amherst. As part of this relocation, both companies are seeking to relocate approximately 250 employes to Amherst. In addition, Delta Sonic is proposing to locate its various warehouse locations in Western New York to the property which includes, research and development, warehousing, fabrication, and soap blending uses.

The Subject Property

As the Planning Board is aware, Amherst Development Park is a business park located in the Research and Development (RD) zoning district. It maintains frontage on North Bailey Ave. and Romney Road and is improved with five buildings. An aerial photograph of the property is attached as **Exhibit A**. To the north, across Romney Road, is the Boulevard, a large shopping center in the SC zoning district. To the west, abutting the Subject Property, is the Boulevard South, another shopping center in the SC zoning district. To the east, across N. Bailey Road will be another large development anchored by Costco and Dick's and located in the SC zoning district. To the south is an office building and the Boulevard towers, located within the CTR-5 and MFR-5 zoning districts, respectively. The properties located to the north, east and west of the Subject Property are all owned by Benderson Development.

The Proposed Project

In order to accommodate the new offices and the Delta Sonic warehouse, Benderson is proposing the following changes:

- A 5,441 s.f. building expansion to connect the existing 26,709 s.f. and 35,826 s.f. buildings located along Romney Road in the northwest corner of the Subject Property to accommodate the new offices.
- A 14,554 s.f. building expansion to connect the existing 34,632 s.f. and 59,591 s.f. buildings located along rear of the property in the southwest corner of the Subject Property to accommodate Delta Sonic's warehouse uses.
- The reconfiguration of the parking field along Romney Road to add an additional row of parking against Romney Road and the reconfiguration of the parking to the south to add an extra row of parking along the southern property line.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

BENDERSON DEVELOPMENT
570 DELAWARE AVENUE
BUFFALO, NY 14202
716.886.0211.P 716.886.2269.F

- The reconfiguration of the area between the two buildings (office and warehouse) to add outdoor greenspace, patio area and parking, as well as to re-work the loading docks to the southerly building.

- Additional site, utility, landscaping, sidewalk and other enhancements in connection with the above - referenced changes.

- Upgrading of the building façade to accommodate the new development.

Conclusion

We look forward to working with the Town on this project. We believe this project represents a great development opportunity for this area that is consistent with the previous development of the property. If there are any questions regarding this letter or the enclosed documentation, please feel free to contact me at (716) 878-9626 or jamesboglioli@benderson.com.

Thank you,
BENDERSON DEVELOPMENT COMPANY, LLC
James A. Boglioli
James A. Boglioli, Esq.
Director, Right to Build – Northeast US

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Exhibit A

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)


1723 - Amherst Development Park
Romney Dr
Romney Dr
Romney Dr
Romney Dr

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
Odessa silt loam	Severe	Severe	Severe	Severe	Severe

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).

   X Geotechnical report attached _____ Not applicable
   Report will be submitted as soon as it is completed

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:
   Blvd Consumer Square; Amherst Commerce park; Maple Crossing; Blvd South (TJ Maxx Plaza);
   1401 - 1405 Niagara Falls Blvd; 3980 Maple Road; 50 Keph Drive; 1715 & 1721 Niagara Falls Blvd

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_____
   _____

   (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 77 TOTAL TRIPS
   Source: ITE - Trip Generation Manual

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:
    2,000 GPD average flow 12.7 GPM 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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 Building Additions & Site Modifications

Project Location (describe, and attach a location map):
6000-6040 North Bailey Ave, Town of Amherst, Erie County

Brief Description of Proposed Action:
The proposed action consists of two building additions (5,441 SF and 14,554 SF) to connect the western most buildings on the north and south sides of the site, replacement of existing Town of Amherst storm pipes, expansion of the existing parking field, new drainage improvements, paving, landscaping and site lighting. The existing loading area between the new additions will be modified to provide at grade pedestrian access points, additional parking and outdoor amenity areas.

Name of Applicant or Sponsor:	Telephone: 716-878-9626
Benderson Development Company, LLC	E-Mail: jamesboglioli@benderson.com

Address:
570 Delaware Ave

City/PO:	State:	Zip Code:
Buffalo	New York	14202

	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 governmental Agency? If Yes, list agency(s) name and permit or approval: Town of Amherst Planning Board; Town of Amherst Zoning Board of Appeals; Town of Amherst Building Permit; NYSDEC Stormwater Permit	☐	☑

3.a. Total acreage of the site of the proposed action? 17.43 acres
b. Total acreage to be physically disturbed? 3.29 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 31.64 acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☑ Commercial ☑ Residential (suburban)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

	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?	☐	☑
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify:	☑	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation service(s) available at or near the site of the proposed action?	☐	☑
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	☐	☑
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: N/A Utilize existing services	☐	☑
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: Connect to existing on-site water services	☐	☑
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: Connect to existing on-site sanitary service	☐	☑
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	☑	☐
b. Is the proposed action located in an archeological sensitive area?	☑	☐
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:	☑	☐

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 plain?	☑	☐
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? ☑ NO ☐ YES	☐	☑
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☐ NO ☑ YES On-site storm management through a series of catch basins		

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: On-site stormwater runoff to underground detention system (31,000 CF)	☐	☑
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:	☑	☐
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 AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor name: David Zuppelli Date: 11.15.2023

Signature: David Zuppelli

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINAWOOD
DESIGN

STORMWATER POLLUTION PREVENTION PLAN
for
CONSTRUCTION ACTIVITIES

At

Amherst Development Park
6000-6040 North Bailey Ave
Town of Amherst, Erie County, New York

Prepared for

Benderson Development Company, LLC

570 Delaware Avenue
Buffalo, NY 14202

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

November 2023



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Table of Contents

Section 101 - Scope

Section 102 - Project Name and Location

Section 103 - Operator's Name and Address

Section 104 - Project Description

Section 105 - Runoff Coefficient, Soils and Rainfall Information

Section 106 - Name of Receiving Waters

Section 107 - Indian Country Lands

Section 108 - Endangered or Threatened Species

Section 109 - Critical Habitat

Section 110 - Historic Places

Section 111 - Wetlands and/or Other Surface Waters

Section 112 - Erosion and Sediment Controls

- **Section 112.1** - Stabilization Practices
- **Section 112.2** - Structural Practices
- **Section 112.3** - Sequence of Major Activities
- **Section 112.4** - Storm Water Management

Section 113 - Other Controls

Section 114 - Compliance with Federal, State and Local Regulations

Section 115 - Inspection and Maintenance Procedures

Section 116 - Inspection and Maintenance Report Forms

Section 117 - Other Record-Keeping Requirements

Section 118 - Spill Prevention Control and Countermeasures (SPCC) Plan

- **Section 118.1** - Materials Covered
- **Section 118.2** - Material Management Practices
- **Section 118.3** - Spill Prevention and Response Procedures

Section 119 - Control of Non-Storm Water Discharges

Section 120 – Storm Water Control Facility Maintenance

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Table of Contents (con't)

Appendix A Site Location Maps

Appendix B NYSDEC Notice of Intent (NOI)

Appendix C MS4 SWPPP Acceptance Form

Appendix D Engineer's Report

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

Appendix F Forms

- Contractor's Certification
- Owner/Operator Certification
- SWPPP Preparer Certification
- NYSDEC Letter of Acknowledgment

Appendix G NYSDEC Notice of Termination (NOT)

Town of Amherst Level 1 Inspection – Post Construction Stormwater Management

Appendix H Construction Documents

Appendix I Standard Erosion Control Details

Appendix J NYSDEC Stormwater Management Inspection Lists

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

101 SCOPE

A. **PURPOSE:** Benderson Development Company, LLC 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 Benderson Development Company, LLC; and/or liquidated damages. This section provides a descriptive explanation of Benderson Development Company, LLC 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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

B. **Owner or operator Maintenance Inspection Requirements**

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. **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;

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

   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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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.

The Town of Amherst - Notice of Termination Requirement: Prior to submitting the NOT, the Town of Amherst requires a Level 1 inspection of all stormwater management practices. See Appendix G: Town of Amherst Level 1 Inspection – Post Construction Stormwater Management.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

102 PROJECT NAME AND LOCATION

Amherst Development Park

6000-6040 North Bailey Ave

Town of Amherst, County of Erie, New York

42.996°N, 78.817°W

Estimated Area of Site ≈ 17.14 acres

Estimated Area to be Disturbed by Construction Activities ≈ 6.95+/- acres

A general location map is included as Appendix A.

103 OPERATOR'S NAME AND ADDRESS

Benderson Development Company, LLC

570 Delaware Ave.

Buffalo, NY 14202

Contact Person: Matt Oates

Telephone: 716-878-9397

104 PROJECT DESCRIPTION

This project is a site redevelopment of the existing Amherst Development Park located on the south side of Ridge Lea Road and on the west side of North Bailey Ave in the Town of Amherst. The site is located north of Meyer Road and east of Niagara Falls Boulevard. The Boulevard Consumer Square is located north and west of the project site, Amherst Commerce Park is located east of the project site and Boulevard Towers Apartments are located south of the project site. The site is currently fully developed and occupied by existing commercial buildings that will remain. Proposed construction will include two building additions and parking lot/driveway expansions. Site construction will also include utility improvements and new stormwater management areas. The overall site is 17.14 of which 6.95 acres will be disturbed by construction activities. The project site is currently zoned R-D.

Soil disturbing activities will include:

A. Construction of temporary construction exit points

B. Clearing & grubbing of the site within disturbance limits

C. Installation of stormwater management 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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

H. Construction of buildings

This project is owned by Benderson Development Company, LLC and will be developed by Benderson Development Company, LLC The work area consists of approximately 6.95+/- 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" = 85. The post-construction runoff curve number for the site will be "CN" = 95. Approximately 6.95+/- acres total 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.

106 WATERS

The runoff generated from this site will discharge to an unnamed open/closed drainage system north of the site that discharges to Ellicott Creek and ultimately the Niagara River.

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

No critical habitats have been determined to be on the site.

111 WETLANDS AND/OR OTHER SURFACE WATERS

No wetlands or other surface waters are located on the site

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Refer to Appendix D, Engineer's Report

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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
- Solid and construction wastes
- Acids
- Fertilizers

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

- 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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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)

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 J 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.

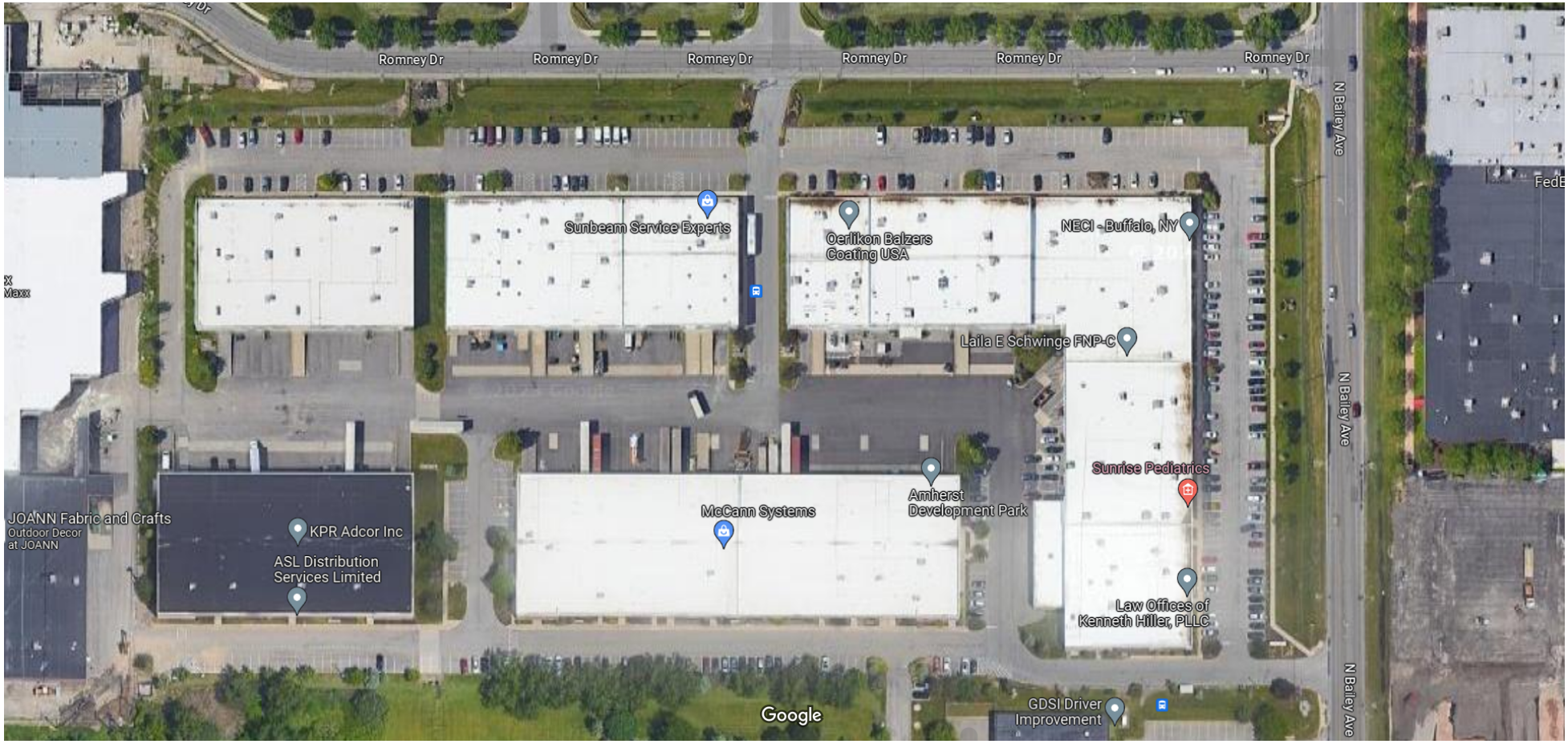
Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix A

Site Location Maps

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Google Maps romney road

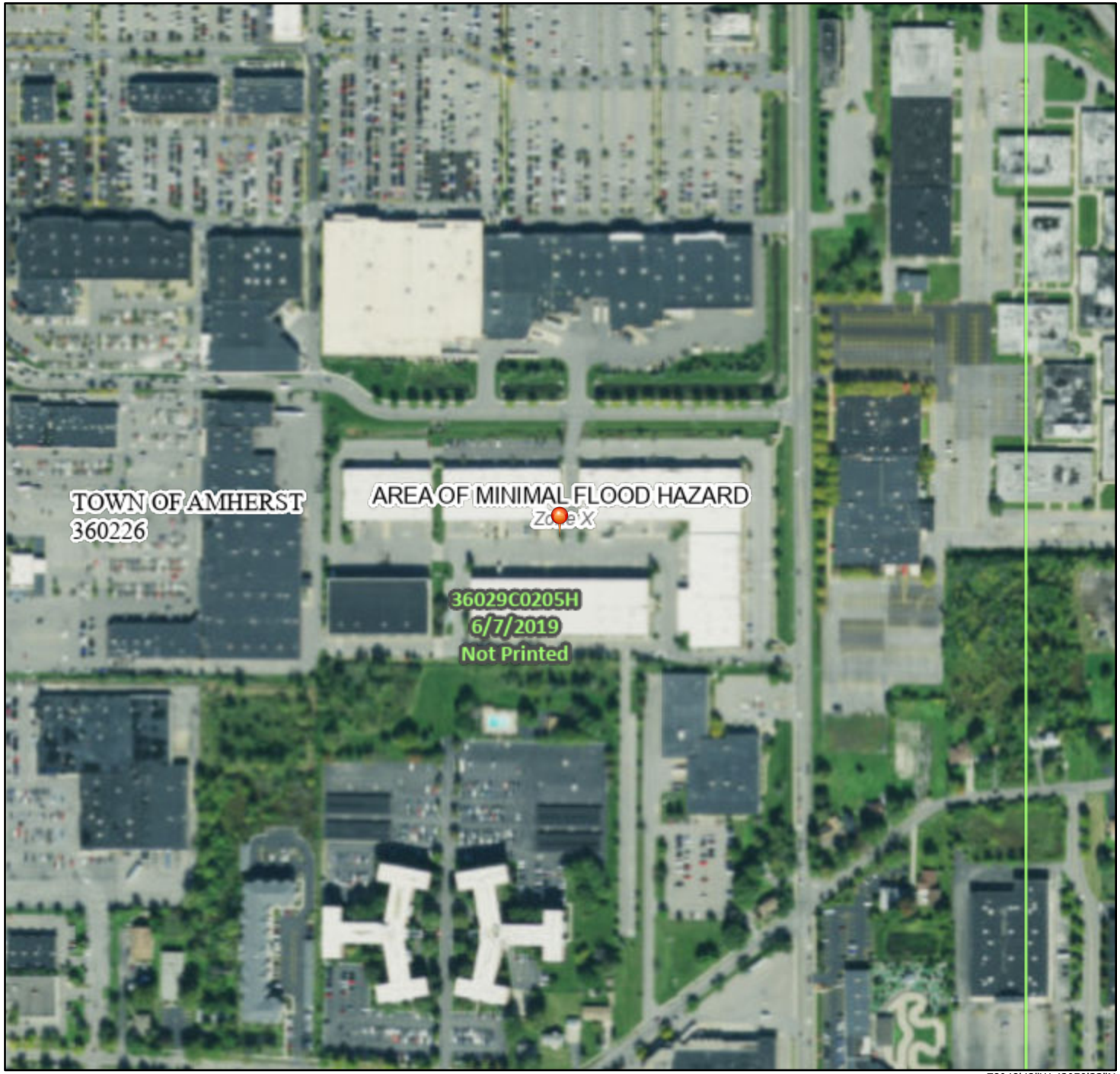


Imagery ©2023 Airbus, CNES / Airbus, Maxar Technologies, New York GIS, U.S. Geological Survey, USDA/FPAC/GEO, Map data ©2023 100 ft

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

National Flood Hazard Layer FIRMette

78°49'19"W 43°N



78°48'42"W 42°59'33"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
  - 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

N

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 11/13/2023 at 9:45 AM 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.

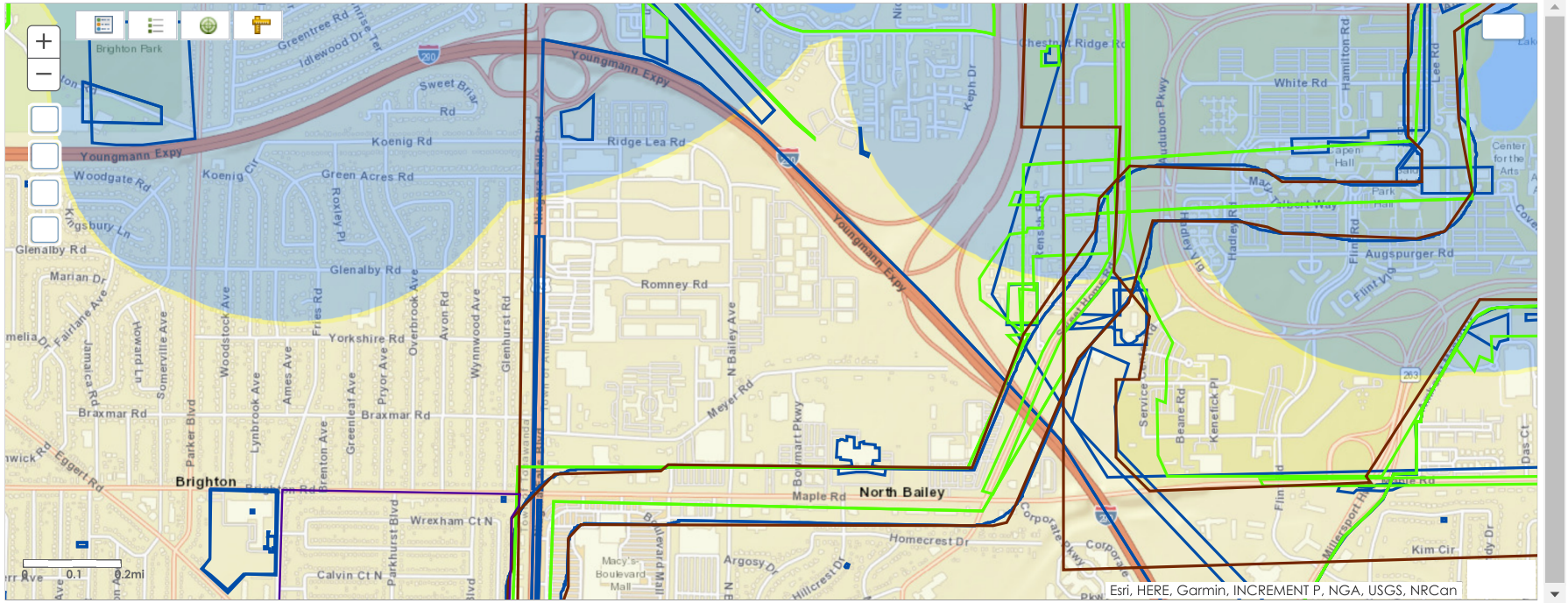
This map image is void if the one or more of the following n elements do not appear: basemap imagery, flood zone labe legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized area regulatory purposes.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CRIS Cultural Resource Information System

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Version 1.2.18

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix B

NYSDEC Notice of Intent (NOI)

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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)
Benderson Development Company

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

Owner/Operator Contact Person First Name
Matt

Owner/Operator Mailing Address
570 Delaware Ave

City
Buffalo

State: NY Zip: 14202 -

Phone (Owner/Operator): 7168780397 Fax (Owner/Operator): ___ - ___ - ____

Email (Owner/Operator)
MattOates@benderson.com

FED TAX ID
16-1549911 (not required for individuals)

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Project Site Information

Project/Site Name

Amherst Development Park

Street Address (NOT P.O. BOX)

6000-6040 North Bailey Ave

Side of Street

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

City/Town/Village (THAT ISSUES BUILDING PERMIT)

Town of Amherst

State: NY | Zip: 14226- | County: Erie | DEC Region: 9

Name of Nearest Cross Street

Romney Road

Distance to Nearest Cross Street (Feet)

0

Project In Relation to Cross Street

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

Tax Map Numbers
Section-Block-Parcel

54.14-1-19.1

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)

-7 | | | 8 | 8 | 1 | 7

Ex. -73.749

Y Coordinates (Northing)

4 | 2 | 9 | 9 | 6 | | |

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: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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
17.1	7.0	3.9	5.9

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
0 %	0 %	0 %	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
03/01/2024	01/01/2025

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Name: Ellicott 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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 & NYSDOT

open/closed stormwater drainage 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: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: 487 Main Street Suite 600

City: Buffalo

State: NY Zip: 14203-

Phone: 7168422165 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: 11/16/2023

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

0.749 **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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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)			1.97	
○ 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: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 WQ Structure	3.92

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

Name: TBD

Manufacturer: TBD

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

0.094 **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

0.056 **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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

0.655 **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).

0.749

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

0.230 **acre-feet**

CPv Provided

0.230 **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

20.51 **CFS**

Post-development

13.54 **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

41.10 **CFS**

Post-development

25.60 **CFS**

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Benderson Development Company

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.

-RRv is required for any new impervious within a redevelopment project
-Onsite soils with slow infiltration rates (Hydrologic soil group "D")

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: Matt

MI:

Print Last Name: Oates

Owner/Operator Signature:

Date: / /

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix C

MS4 SWPPP Acceptance Form

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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:	Benderson Development, LLC
2. Contact Person:	Matt Oates
3. Street Address:	570 Delaware Ave
4. City/State/Zip:	Buffalo, NY 14202
II. Project Site Information	
5. Project/Site Name:	Amherst Development Park
6. Street Address:	6000-6040 North Bailey Ave
7. City/State/Zip:	Amherst, NY 14226
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:	Town of Amherst
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Contact Person:	
14. Street Address:	
15. City/State/Zip:	
16. Telephone Number:	

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix D

Engineer's Report

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINAWOOD
DESIGN

ENGINEER'S REPORT

for

Amherst Development Park

6000-6040 North Bailey Ave
Town of Amherst, Erie County, New York

Prepared for

Benderson Development Company, LLC

570 Delaware Avenue
Buffalo, NY 14202

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

November 2023



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Table of Contents

Written Engineer's Report

Section 1 - Location & Description

Section 2 - Stormwater Drainage System

Appendices

Appendix A - Location Maps – Erie County GIS

Appendix B - Web Soil Survey – Hydrologic Soils Groups

Appendix C - Storm Sewer Drainage Calculations

- Water Quality and Runoff Reduction Calculations
- Stormwater Runoff Summaries and Runoff Delineation Maps
- HydroCAD Analysis

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Section 1 – Location & Description

This project is a site redevelopment of the existing Amherst Development Park located on the south side of Ridge Lea Road and on the west side of North Bailey Ave in the Town of Amherst. The site is located north of Meyer Road and east of Niagara Falls Boulevard. The Boulevard Consumer Square is located north and west of the project site, Amherst Commerce Park is located east of the project site and Boulevard Towers Apartments are located south of the project site. The site is currently fully developed and occupied by existing commercial buildings that will remain. Proposed construction will include two building additions and parking lot/driveway expansions. Site construction will also include utility improvements and new stormwater management areas. The overall site is 17.14 of which 6.95 acres will be disturbed by construction activities. The project site is currently zoned R-D.

Section 2 – Stormwater Drainage System

The existing site is generally flat. An existing open/closed drainage system onsite drains north to an open swale along the north side of Romney Rd. Three existing 3'x5' arch stormwater conveyance pipes are also located onsite within a 30' wide Town of Amherst Drainage easement. These conveyance pipes flow from the south property line to north and discharge into the open swale along Romney Rd. The existing swale flows east along Romney Rd and north along North Bailey Ave and outlets to an existing stormwater management pond located adjacent to Interstate 290. Runoff from the pond is then conveyed north via open and closed drainage systems and discharges to Ellicott Creek and ultimately the Niagara River. All proposed stormwater runoff from the project site will continue to discharge to the existing stormwater system along Romney Road.

This project is subject to the Boulevard Central Special Stormwater Design Conditions adopted by the Town of Amherst. In addition to the requirements of the NYSDEC SPDES General Permit, the project must also provide the following criteria for Projected Growth Redevelopment Scenarios and Enhanced Phosphorus Removal:

- Provide 10% escalation of proposed peak flow when compared to existing conditions peak flows.
- Median curve number (CN) to compute existing conditions.
- Water Quality volume based on the 1-year, 24-hour storm according to Chapter 10 of the NYSDEC Stormwater Management Design Manual.

For purposes of the runoff analysis and the stormwater drainage system design, portions of the project site were classified as "Redevelopment" per NYSDEC Stormwater Management Design Manual Chapter 9 requirements. The nature of this construction project will be a "Redevelopment" with an increase in impervious area. The proposed stormwater management system was designed to attenuate proposed runoff to existing conditions prior to discharge.

The proposed stormwater drainage system will consist of a combination of overland sheet flow and HDPE pipe channel flow connected by a series of drainage inlets located throughout the project site. Proposed stormwater runoff will be collected and conveyed to an underground stormwater chamber detention area onsite and discharged via outlet control pipes to the existing stormwater system along Romney Road.

The bioretention areas will provide Runoff Reduction and Water Quality volume requirements for "New Development" areas. The filter area planting soil depth varies throughout the bioretention areas but maintains a minimum of at least 18 inches of soil. The 18 inches of soil is an acceptable deviation per the NYSDEC where existing grades prevent the full 2.5'-4' foot soil depth. A series of 6" underdrains below the planting soil will be located throughout the bioretention areas connected by overflow drainage inlets to convey runoff directly to the closed stormwater management system. Water quality treatment structures will be installed onsite to address water quality requirements for "Redevelopment" areas.

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: No existing natural features exist onsite.
2. Calculation of Water Quality Volume (WQv) for site. See "Storm Sewer Drainage Calculations".

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 and WQv for "New Development" areas. See "Storm Sewer 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. Water quality treatment structures will be installed onsite to address water quality requirements for "Redevelopment" areas. See "Storm Sewer Drainage Calculations".
5. Design of volume and peak rate control practices where required. See "Storm Sewer 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:
The NYSDEC requires water quality treatment prior to discharge. This will be achieved by the application of bioretention areas and water quality treatment structures. The total WQv provided was 0.749 ac-ft and equal to the required WQv of 0.749 ac-ft. The required water quality volume was calculated based on the proposed 6.95 acres of proposed development area.

Runoff Reduction Volume:
The NYSDEC requires reduction of the total water quality volume by green infrastructure techniques and SMPs to replicate pre-development hydrology. Bioretention areas were incorporated into the site layout to provide the required RRv for contributing runoff areas in the WQv. The RRv provided was 0.094 ac-ft and greater than the required RRv min. of 0.056 ac-ft. The required runoff reduction volume was calculated based on 3.03 acres of proposed "new development" area that includes 1.97 acres of "new impervious" area.

100% of the required WQv was not reduced due to the followings site specific limitations: Drainage areas with impermeable soils, Type D. In addition, below is a summary of how each green infrastructure technique was evaluated and determined to be feasible or infeasible:

1. Conservation of natural areas: no natural existing features present onsite.
2. Sheetflow to riparian buffers or filter strips: no riparian buffers possible on the site; filter strips not feasible given the limited area for development.
3. Vegetated Open Swales: swales were not feasible given the limited area for development.
4. Tree Plantings: new trees were planted throughout the site.
5. Disconnection of Roof Top Runoff: disconnection not feasible for these types of projects.
6. Stream Daylighting: is not feasible given the limited area for development.
7. Rain Garden: bioretention areas installed throughout site.
8. Green Roof: the proposed use of the building makes this an unfeasible practice.
9. Stormwater Planter: this method is not recommended for these types of projects.
10. Rain Barrels & Cisterns: collected water would not be used for irrigation.
11. Porous Pavement: porous pavement is not recommended for areas with impermeable soils (Type D) and areas with sediment laden runoff (salting in winter months).

Channel Protection:
The NYSDEC requires that 24-Hour extended detention be provided for the proposed 1-year storm event. A volume of 10,004 cf will be accommodated in the stormwater detention areas onsite.

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. Storage of this storm will be provided within the onsite stormwater detention areas. At this storm event the stormwater drainage system will allow discharge of 13.54 cfs, which is below the existing peak 10-year runoff of 20.51 cfs.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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. Storage of this storm will be provided within the onsite stormwater detention areas. At this storm event the stormwater drainage system will allow discharge of 25.60 cfs, which is below the existing peak 100-year runoff of 41.10 cfs.

Town of Amherst:
The Town 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 *under the 10% escalation scenario*. Storage of this storm will be provided within the onsite stormwater detention areas. At the 25-year storm event the stormwater drainage system will allow discharge of 19.34 cfs, which is below the existing peak 10-year runoff of 20.51 cfs.

Design Criteria:
Storm pipes: 10-year storm
RUNOFF ANALYSIS OF PROPOSED DEVELOPMENT AREA:

STORM EVENT	EXISTING RUNOFF (cfs)	PROPOSED RUNOFF (cfs)	10% ESCALATION (cfs)
1 YEAR	8.12	7.30	8.03
2 YEAR	11.64	9.40	10.34
5 YEAR	16.25	11.90	13.09
10 YEAR	20.51	13.54	14.89
25 YEAR	27.36	18.03	19.83
50 YEAR	33.68	21.83	24.01
100 YEAR	41.10	25.60	28.16

WATER QUALITY SUMMARY:
WQv REQUIRED = 0.749 AC-FT
RRv MIN. REQUIRED = 0.056 AC-FT
RRv PROVIDED WITHIN BIORETENTION AREAS = 0.094 AC-FT
WQv PROVIDED WITHIN BIORETENTION AREAS = 0.234 AC-FT
WQv PROVIDED BY TREATMENT STRUCTURES = 0.515 AC-FT
TOTAL WQv PROVIDED = 0.749 AC-FT

BIORETENTION FILTER AREA SUMMARY:
FILTER AREA = 9,266 SF

See attached “Storm Sewer Drainage Calculations” for additional information.

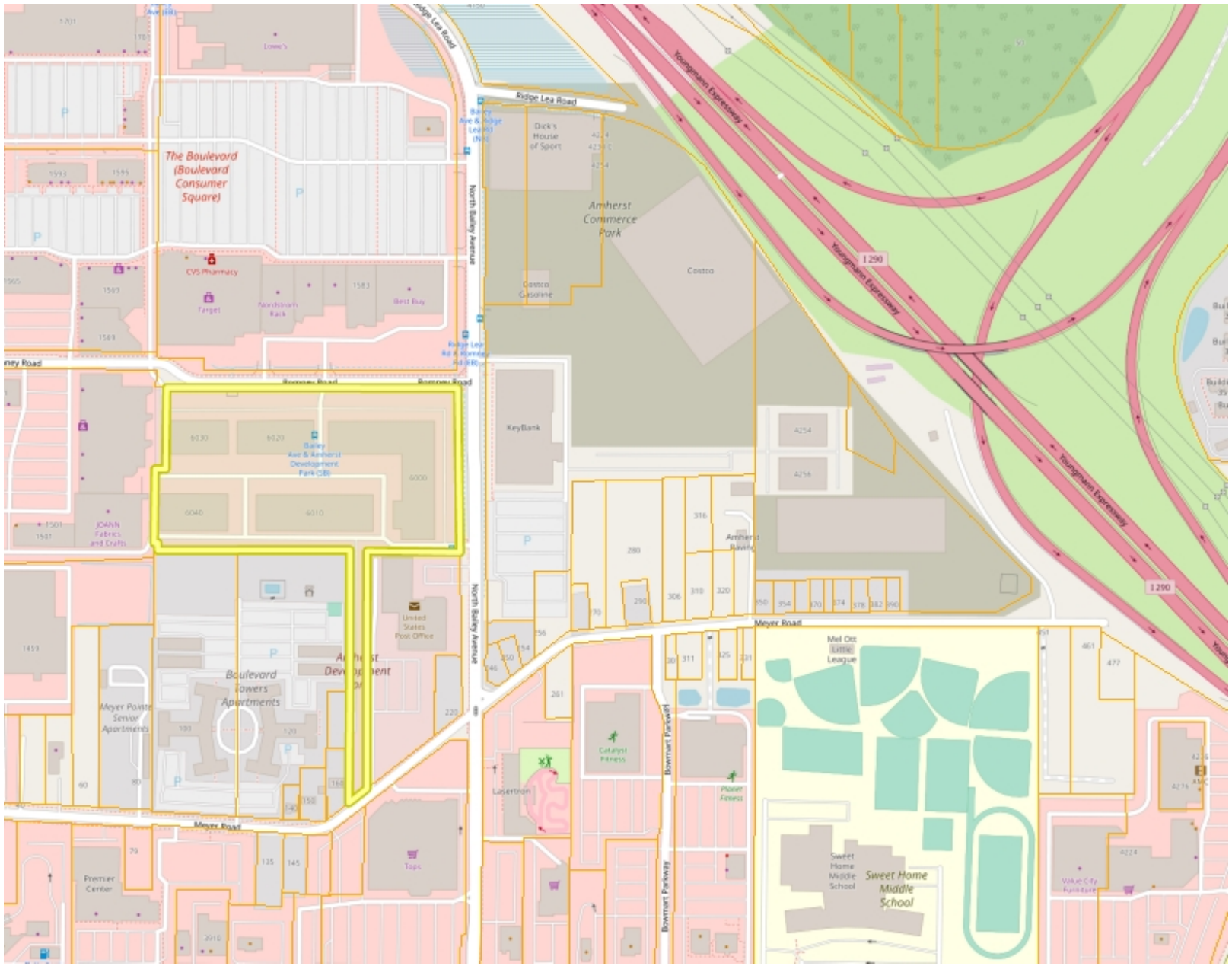
Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix A

Location Maps

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Erie County On-Line Mapping Application





Legend

- Parcels

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

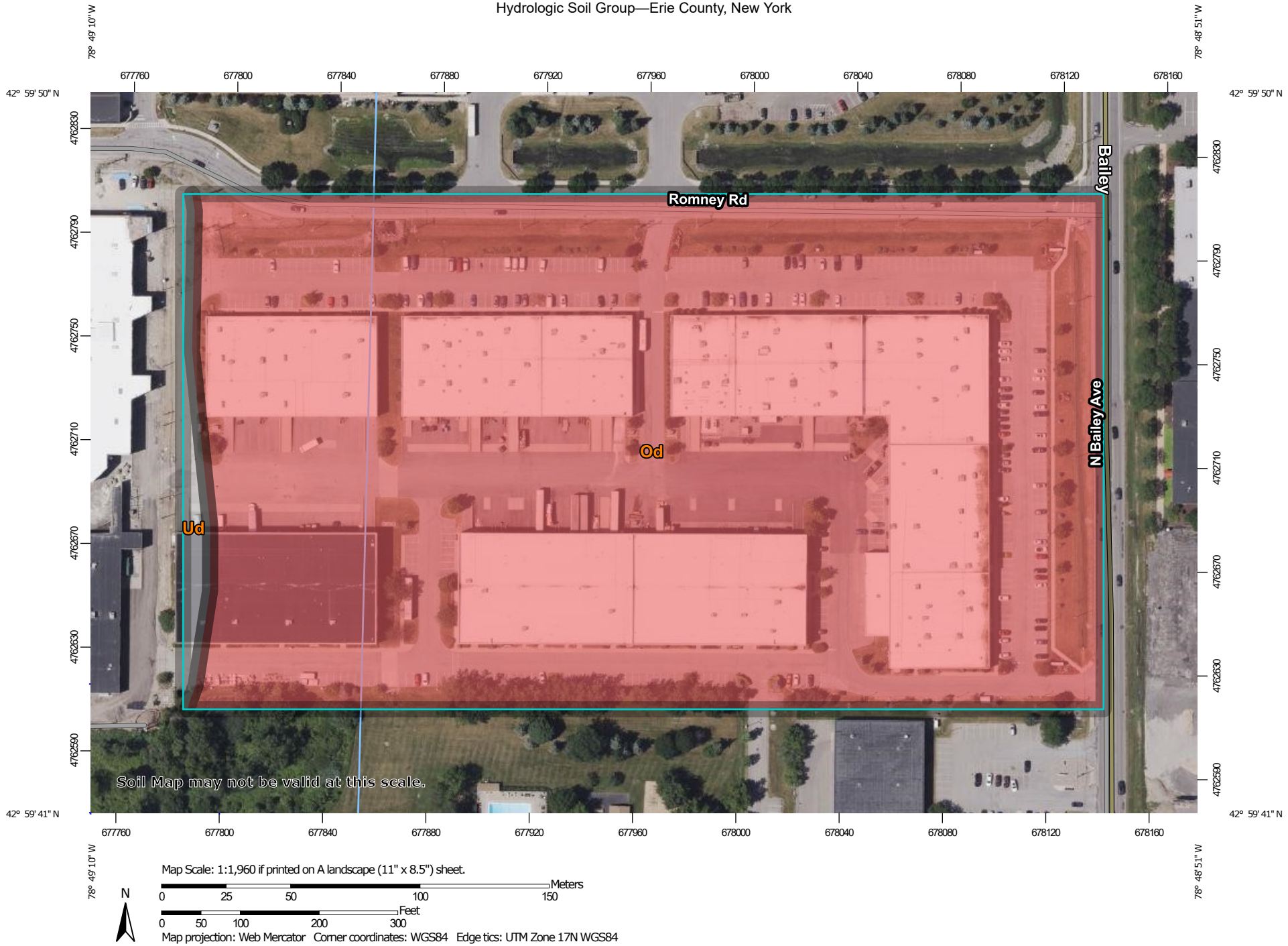
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Appendix B

Web Soil Survey – Hydrologic Soils Group

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Hydrologic Soil Group—Erie County, New York



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: May 9, 2022—Aug 15, 2022

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Od	Odessa silt loam, 0 to 3 percent slopes	D	17.2	98.2%
Ud	Urban land		0.3	1.8%
Totals for Area of Interest			**17.6**	**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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix C

Storm Sewer Drainage Calculations

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Water Quality and Runoff Reduction Calculations

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

1.a

WATER QUALITY REQUIRED FOR PROPOSED DEVELOPMENT AREA Area, Acres = 6.95

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

"Redevelopment Activity", Acres = 3.92 "New development", Acres = 3.03

(existing, disturbed impervious area)

Total proposed impervious, Acres = 5.89

"New" impervious, Acres = 1.97

Water Quality Volume (WQv) WQv Required = 1-Year, 24-Hour Design Storm

See Attached Worksheet & HydroCAD "WQ1" & "WQ2":

WQ1, Proposed Overall Development Area, ac-ft = 0.749

WQ2, Redevelopment Area, ac-ft = 0.515

Flow Through Alt. Practice = 100% WQv for Redevelopment, ac-ft = 0.515

WQ3, New Development Area, ac-ft = 0.234

Total WQv Required, ac-ft = 0.749

Note: Runoff Reduction Volume (RRv) sizing criteria not required for "Redevelopment Activity" portion of project.

See attached Bioretention Worksheet for RRv sizing for "New Development" portion of project.

RRv PROVIDED FOR PROPOSED DEVELOPMENT AREA (See NYSDEC worksheets)

		WQv, cf	RRv, cf
Min. RRv Req'd, cf = 2,446	Bioretention Area	10,193	4,077
Min. RRv Req'd, ac-ft = 0.056	WQ Treatment Structure(s)	22,433	0
(P=1 yr storm event =1.80 in)	TOTAL, cf	32626.45	4077
	TOTAL, ac-ft	0.749	0.094

WQ & RR SUMMARY (ac-ft):

TOTAL WATER QUALITY PROVIDED FOR PROPOSED DEVELOPMENT AREA 0.749

IS WATER QUALITY VOLUME REQUIREMENT MET? Yes

(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)

Revised_/_/_

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINAWOOD

DESIGN

24-4099 AMHERST DEVELOPMENT PARK 11/14/23

WATER QUALITY VOLUME FOR ENHANCED PHOSPHORUS REMOVAL

* WQ_v = 1-YR, 24-HR DESIGN STORM (HYDROCAD)

(1.) PROPOSED OVERALL DEVELOPMENT AREA = 6.95 AC

GREENSPACE =
IMPERVIOUS =
$T_c \leq 5.0$ MIN

→ 1-YR, 24-HR HYDROCAD RUNOFF VOLUME

WQ_1 = 0.749 AC-FT
(SEE ATTACHED "WQ1" HYDROCAD)

(2.) REDEVELOPMENT AREA = 3.92 AC (EXISTING IMPERVIOUS)

1-YR, 24-HR HYDROCAD RUNOFF VOLUME = 0.515 AC-FT
(SEE ATTACHED "WQ2" HYDROCAD)

PER NYSDEC STORMWATER DESIGN MANUAL 10.3.6

* PERFORMANCE CRITERIA: OPTIONS
  1. USE 25% WQ_v OF REDEVELOPMENT AREA FOR SMP'S
  2. USE 75% WQ_v OF REDEVELOPMENT AREA FOR VOLUME BASED ALTERNATIVE PRACTICE
  3. USE 100% WQ_v OF REDEVELOPMENT AREA FOR FLOW THROUGH ALT. PRACTICE

USE OPTION (3.)

WQ_2 = 0.515 AC-FT

(3.) NEW DEVELOPMENT AREA =

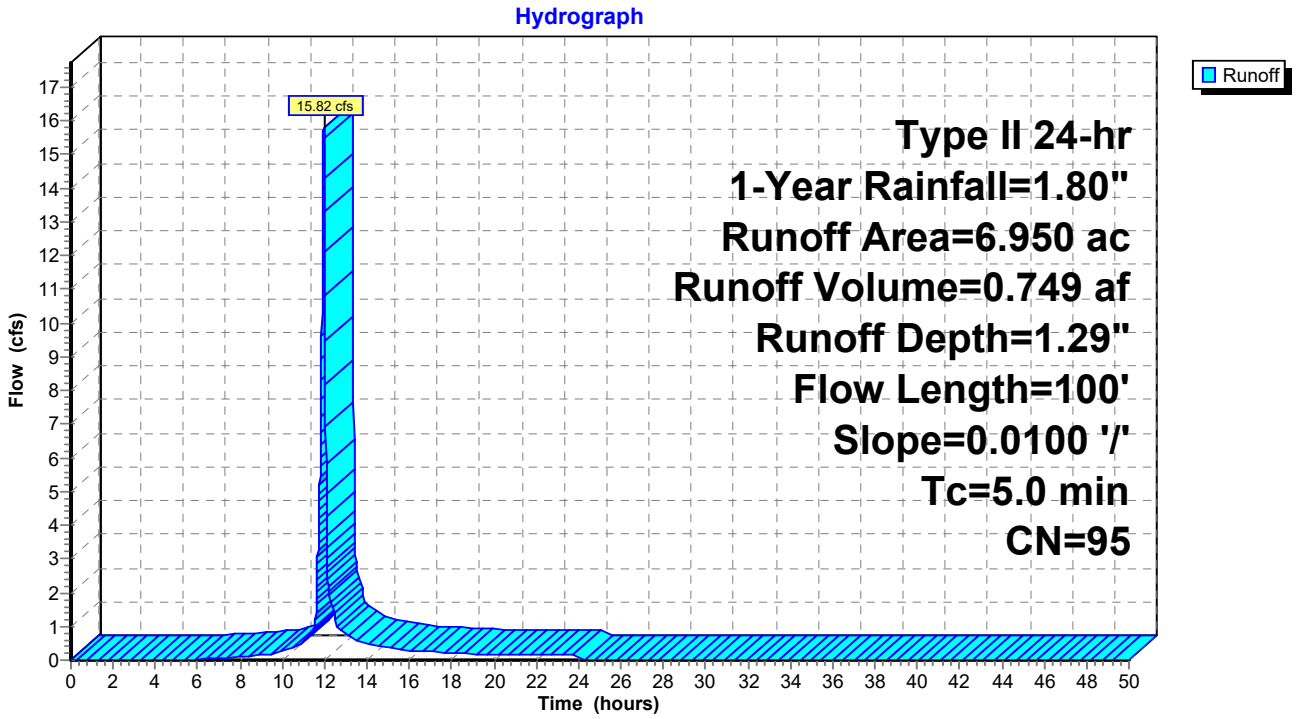
WQ_3 = 0.749 AC-FT − 0.515 AC-FT = 0.234 AC-FT

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

23-4099 Proposed WQv
Prepared by Carmina Wood Morris, PC
HydroCAD® 10.20-2g s/n 05019 © 2022 HydroCAD Software Solutions LLC

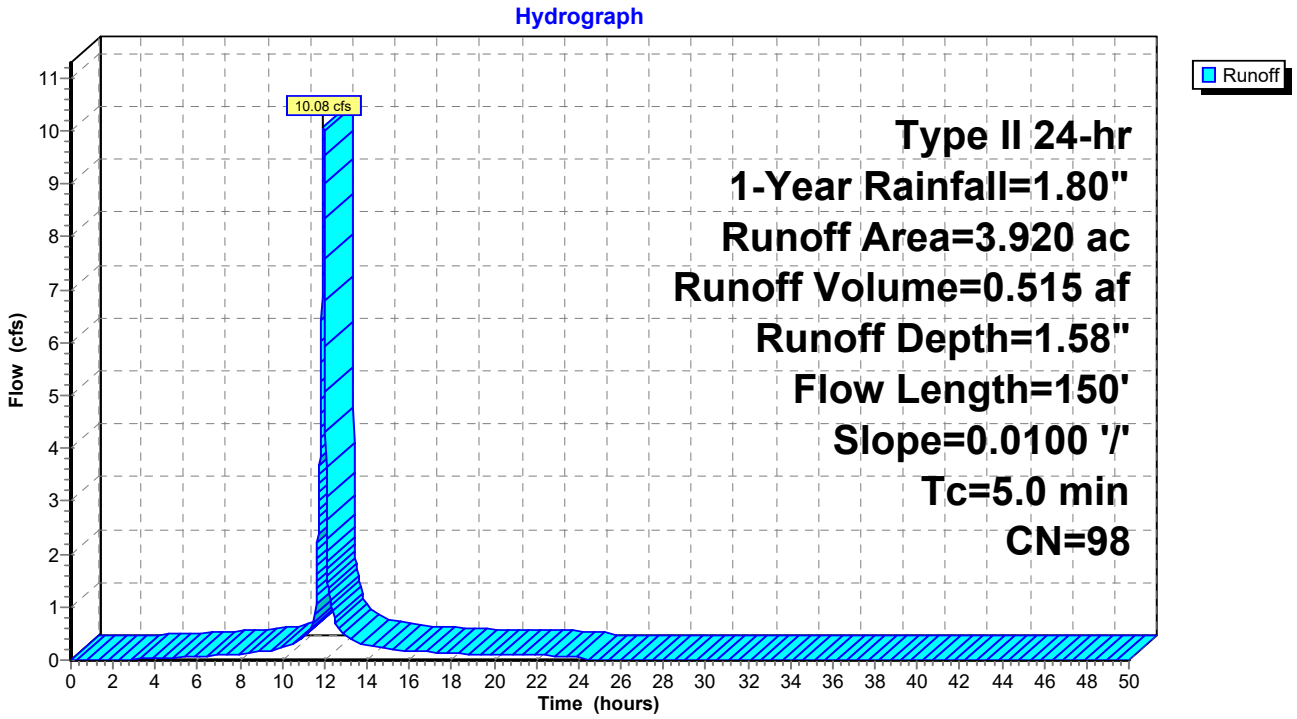
Type II 24-hr 1-Year Rainfall=1.80"
Printed 11/14/2023

Subcatchment WQ1: Proposed Site - Overall Area



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Subcatchment 2S: Proposed Site - Redevelopment Area



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

WATER QUALITY TREATMENT STRUCTURE SIZING CALCULATIONS

Area, Acres = 3.92

Water Quality Volume (WQv)

WQv (ac-ft)= 0.515

WQv (cf)= 22,433

Water Quality Peak Flow Calculation for Flow Through Practices

Q, WQv in Watershed Inches = (WQv/A)x12 = 1.577

P = 1.8

"Rational Method" CN Value = $1000/[10 + 5P + 10Q - 10(Q^2 + 1.25\,QP)^{½}]$

CN= 98

Initial Abstration: Table 4-I, Ia = 0.041

Ia/P Ratio = 0.023

Tc (HydroCAD), min.= 5

Tc (HydroCAD), hr.= 0.1

Unit Peak Discharge, qu (csm/in) 1000

Peak Discharge (Qp) = qu * A * WQv

Where: A = drainage area, in square miles

WQv = Water Quality Volume, in watershed inches

qu = the unit peak discharge, in cfs/mi²/inch

Qp, (cfs) = 9.656

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Chapter 4 Graphical Peak Discharge Method

This chapter presents the Graphical Peak Discharge method for computing peak discharge from rural and urban areas. The Graphical method was developed from hydrograph analyses using TR-20, "Computer Program for Project Formulation—Hydrology" (SCS 1983). The peak discharge equation used is:

$$q_p = q_u A_m Q F_p \qquad \text{[eq. 4-1]}$$

where:

q_p = peak discharge (cfs)
q_u = unit peak discharge (csm/in)
A_m = drainage area (mi^2)
Q = runoff (in)
F_p = pond and swamp adjustment factor

The input requirements for the Graphical method are as follows: (1) T_c (hr), (2) drainage area (mi^2), (3) appropriate rainfall distribution (I, IA, II, or III), (4) 24-hour rainfall (in), and (5) CN. If pond and swamp areas are spread throughout the watershed and are not considered in the T_c computation, an adjustment for pond and swamp areas is also needed.

Peak discharge computation

For a selected rainfall frequency, the 24-hour rainfall (P) is obtained from appendix B or more detailed local precipitation maps. CN and total runoff (Q) for the watershed are computed according to the methods outlined in chapter 2. The CN is used to determine the initial abstraction (I_a) from table 4-1. I_a / P is then computed.

If the computed I_a / P ratio is outside the range in exhibit 4 (4-I, 4-IA, 4-II, and 4-III) for the rainfall distribution of interest, then the limiting value should be used. If the ratio falls between the limiting values, use linear interpolation. Figure 4-1 illustrates the sensitivity of I_a / P to CN and P.

Peak discharge per square mile per inch of runoff (q_u) is obtained from exhibit 4-I, 4-IA, 4-II, or 4-III by using T_c (chapter 3), rainfall distribution type, and I_a / P ratio. The pond and swamp adjustment factor is obtained from table 4-2 (rounded to the nearest table value). Use worksheet 4 in appendix D to aid in computing the peak discharge using the Graphical method.

Figure 4-1 Variation of I_a / P for P and CN

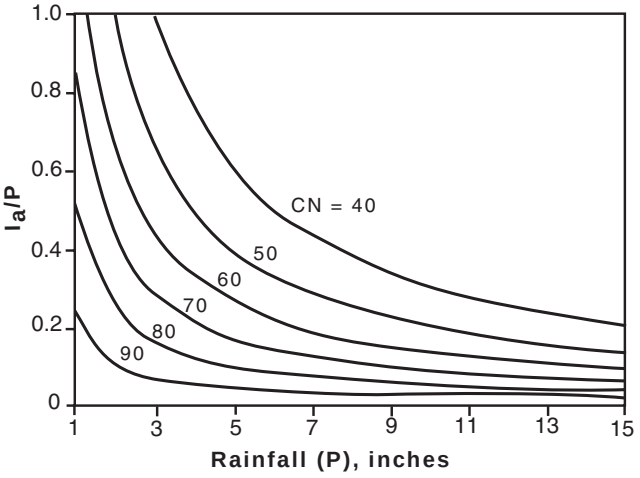
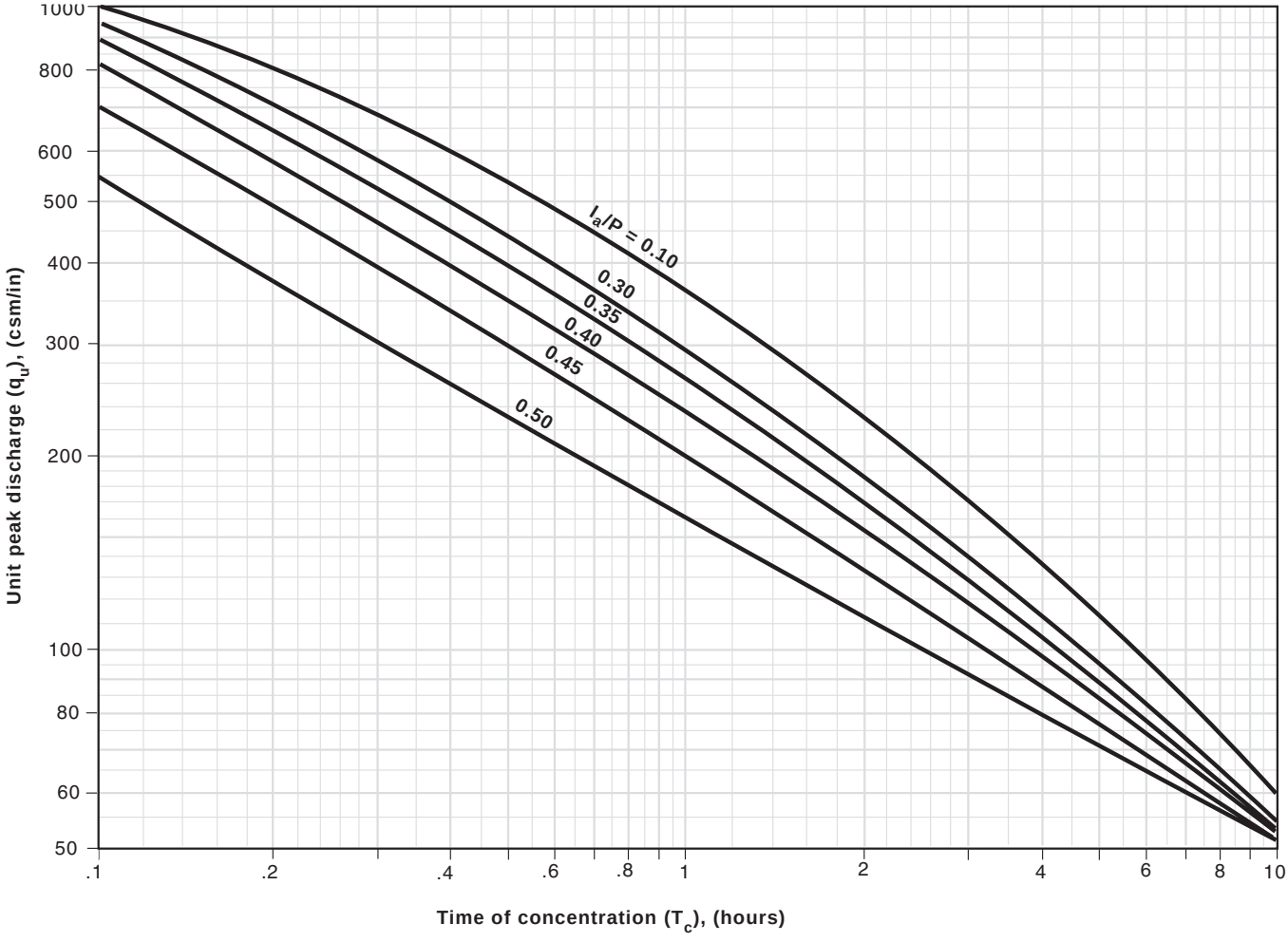


Table 4-1 I_a values for runoff curve numbers

Curve number	I_a (in)	Curve number	I_a (in)
40	3.000	70	0.857
41	2.878	71	0.817
42	2.762	72	0.778
43	2.651	73	0.740
44	2.545	74	0.703
45	2.444	75	0.667
46	2.348	76	0.632
47	2.255	77	0.597
48	2.167	78	0.564
49	2.082	79	0.532
50	2.000	80	0.500
51	1.922	81	0.469
52	1.846	82	0.439
53	1.774	83	0.410
54	1.704	84	0.381
55	1.636	85	0.353
56	1.571	86	0.326
57	1.509	87	0.299
58	1.448	88	0.273
59	1.390	89	0.247
60	1.333	90	0.222
61	1.279	91	0.198
62	1.226	92	0.174
63	1.175	93	0.151
64	1.125	94	0.128
65	1.077	95	0.105
66	1.030	96	0.083
67	0.985	97	0.062
68	0.941	98	0.041
69	0.899		

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Exhibit 4-II Unit peal discharge (q_u) for NRCS (SCS) type II rainfall distribution



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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)?.....	No

Design Point:		
P=	1.80	*inch*

Manually enter P, Total Area and Impervious Cover.

Breakdown of Subcatchments

Catchment Number	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	Description
1	3.03	1.97	65%	0.64	12,575	
2						
3						
4						
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	3.03	1.97	65%	0.64	**12,575**	**Subtotal 1**
Total	3.03	1.97	65%	0.64	**12,575**	**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	3.03	1.97	*Up to 100 sf directly connected impervious area may be subtracted per tree*
Total	**3.03**	**1.97**	

Recalculate WQv after application of Area Reduction Techniques

	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Runoff Coefficient Rv	WQv *(ft^3)*
"<<Initial WQv"	3.03	1.97	65%	0.64	12,575
Subtract Area	-3.03	-1.97			
WQv adjusted after Area Reductions	**0.00**	**0.00**	0%	0.05	0
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	0.00	0.00	0%	0.05	**0**

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Minimum RRv

Enter the Soils Data for the site		
Soil Group	Acres	S
A		55%
B		40%
C		30%
D	**3.03**	20%
Total Area	3.03	
Calculate the Minimum RRv		
S =	**0.20**	
Impervious =	1.97	*acre*
Precipitation	1.8	*in*
Rv	0.95	
Minimum RRv	**2,446**	***ft3***
	0.06	af

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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	3.03	1.97	0.65	0.64	12574.68	1.80	
Enter Impervious Area Reduced by Disconnection of Rooftops		0.00	65%	0.64	12,575	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.					0	*ft^3*	

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

Calculate the Minimum Filter Area				
		Value	Units	Notes
WQv		12,575	*ft^3*	
Enter Depth of Soil Media	*df*	2.5	*ft*	*2.5-4 ft*
Enter Hydraulic Conductivity	*k*	0.5	*ft/day*	
Enter Average Height of Ponding	*hf*	0.25	*ft*	*6 inches max.*
Enter Filter Time	*tf*	2	*days*	
Required Filter Area	***Af***	**11432**	***ft^2***	

Determine Actual Bio-Retention Area			
Filter Width	96.25	*ft*	
Filter Length	96.27	*ft*	
Filter Area	9265.9875	*ft^2*	
Actual Volume Provided	10193	*ft^3*	

Determine Runoff Reduction				
Is the Bioretention contributing flow to another practice?		No	Select Practice	N/A
RRv	4,077			
RRv applied	**4,077**	***ft^3***	***This is 40% of the storage provided or WQv whichever is less.***	
Volume Treated	8,498	*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	
Sizing √	Error		*Check to be sure Area provided ≥ Af*	

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Stormwater Runoff Summaries and Runoff Delineation Maps

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Metadata for Point

Smoothing	Yes
State	New York
Location	New York, United States
Latitude	42.996 degrees North
Longitude	78.817 degrees West
Elevation	170 feet
Date/Time	Mon Nov 13 2023 09:29:03 GMT-0500 (Eastern Standard Time)

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.26	0.41	0.50	0.66	0.82	1.00	**1yr**	0.71	0.93	1.13	1.34	1.56	1.80	2.09	**1yr**	1.60	2.01	2.42	2.91	3.39	**1yr**
2yr	0.30	0.47	0.58	0.77	0.96	1.18	**2yr**	0.83	1.08	1.34	1.59	1.87	2.18	2.46	**2yr**	1.93	2.36	2.78	3.31	3.80	**2yr**
5yr	0.36	0.56	0.70	0.94	1.20	1.48	**5yr**	1.03	1.35	1.67	1.98	2.30	2.65	3.00	**5yr**	2.34	2.89	3.37	3.97	4.54	**5yr**
10yr	0.40	0.63	0.80	1.09	1.42	1.76	**10yr**	1.22	1.61	1.98	2.34	2.70	3.07	3.49	**10yr**	2.72	3.36	3.90	4.56	5.19	**10yr**
25yr	0.48	0.76	0.96	1.33	1.77	2.20	**25yr**	1.53	2.01	2.48	2.90	3.32	3.73	4.27	**25yr**	3.30	4.10	4.74	5.48	6.20	**25yr**
50yr	0.54	0.87	1.11	1.55	2.09	2.60	**50yr**	1.81	2.39	2.94	3.42	3.88	4.33	4.97	**50yr**	3.83	4.78	5.49	6.30	7.10	**50yr**
100yr	0.61	0.99	1.28	1.82	2.48	3.10	**100yr**	2.14	2.84	3.49	4.04	4.55	5.03	5.79	**100yr**	4.45	5.57	6.36	7.24	8.13	**100yr**
200yr	0.71	1.15	1.49	2.14	2.95	3.68	**200yr**	2.54	3.39	4.14	4.77	5.33	5.84	6.75	**200yr**	5.17	6.49	7.37	8.32	9.31	**200yr**
500yr	0.85	1.39	1.82	2.64	3.70	4.62	**500yr**	3.19	4.27	5.19	5.93	6.57	7.13	8.26	**500yr**	6.31	7.95	8.96	10.01	11.14	**500yr**

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.23	0.35	0.42	0.57	0.70	0.87	**1yr**	0.61	0.85	0.86	1.15	1.44	1.62	1.90	**1yr**	1.44	1.83	2.08	2.63	3.10	**1yr**
2yr	0.29	0.45	0.55	0.75	0.92	1.06	**2yr**	0.80	1.04	1.16	1.42	1.71	2.10	2.35	**2yr**	1.86	2.26	2.67	3.19	3.66	**2yr**
5yr	0.33	0.51	0.63	0.86	1.10	1.26	**5yr**	0.95	1.23	1.38	1.67	2.01	2.43	2.71	**5yr**	2.15	2.60	3.03	3.61	4.08	**5yr**
10yr	0.36	0.55	0.68	0.95	1.23	1.42	**10yr**	1.06	1.39	1.56	1.87	2.26	2.71	3.01	**10yr**	2.40	2.89	3.32	3.95	4.41	**10yr**
25yr	0.41	0.62	0.77	1.10	1.45	1.67	**25yr**	1.25	1.64	1.81	2.18	2.64	3.12	3.44	**25yr**	2.76	3.31	3.73	4.42	4.84	**25yr**
50yr	0.45	0.68	0.84	1.21	1.63	1.88	**50yr**	1.41	1.84	2.02	2.43	2.95	3.47	3.82	**50yr**	3.07	3.67	4.05	4.82	5.18	**50yr**
100yr	0.49	0.74	0.92	1.33	1.83	2.12	**100yr**	1.58	2.07	2.25	2.70	3.31	3.88	4.21	**100yr**	3.43	4.05	4.39	5.25	5.53	**100yr**
200yr	0.53	0.80	1.02	1.47	2.06	2.40	**200yr**	1.77	2.34	2.49	2.99	3.69	4.34	4.65	**200yr**	3.84	4.47	4.74	5.69	5.88	**200yr**
500yr	0.60	0.90	1.16	1.68	2.39	2.81	**500yr**	2.06	2.74	2.83	3.40	4.23	5.08	5.31	**500yr**	4.50	5.11	5.18	6.32	6.32	**500yr**

Upper Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.30	0.46	0.56	0.75	0.93	1.07	**1yr**	0.80	1.05	1.20	1.41	1.70	1.93	2.33	**1yr**	1.71	2.24	2.61	3.09	3.63	**1yr**
2yr	0.31	0.49	0.60	0.81	1.00	1.16	**2yr**	0.86	1.13	1.28	1.56	1.86	2.28	2.58	**2yr**	2.02	2.48	2.95	3.48	4.03	**2yr**
5yr	0.39	0.60	0.74	1.02	1.30	1.53	**5yr**	1.12	1.50	1.68	2.06	2.44	2.88	3.31	**5yr**	2.55	3.18	3.75	4.36	5.04	**5yr**
10yr	0.46	0.71	0.88	1.22	1.58	1.89	**10yr**	1.37	1.84	2.09	2.55	3.01	3.45	4.01	**10yr**	3.05	3.86	4.52	5.17	6.02	**10yr**
25yr	0.58	0.89	1.10	1.58	2.07	2.51	**25yr**	1.79	2.45	2.79	3.39	3.98	4.40	5.18	**25yr**	3.89	4.98	5.84	6.52	7.63	**25yr**
50yr	0.69	1.05	1.31	1.88	2.53	3.11	**50yr**	2.18	3.04	3.47	4.22	4.91	5.28	6.28	**50yr**	4.68	6.04	7.10	7.79	9.17	**50yr**
100yr	0.83	1.25	1.56	2.26	3.10	3.85	**100yr**	2.68	3.77	4.33	5.24	6.07	6.33	7.62	**100yr**	5.60	7.33	8.59	9.30	10.98	**100yr**
200yr	0.99	1.48	1.88	2.72	3.80	4.78	**200yr**	3.28	4.67	5.42	6.54	7.50	7.57	9.24	**200yr**	6.70	8.88	10.46	11.13	13.20	**200yr**
500yr	1.25	1.87	2.40	3.49	4.96	6.37	**500yr**	4.28	6.22	7.30	8.75	9.94	9.62	11.94	**500yr**	8.52	11.48	13.59	14.13	16.77	**500yr**

Powered by ACIS Northeast Regional Climate Center

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINAWOOD
DESIGN

24-4099 AMHERST DEVELOPMENT PARK 11/15/23

STORMWATER DRAINAGE ANALYSIS

-PROJECTED GROWTH REDEVELOPMENT SCENARIO-

- USE MEDIAN CURVE NUMBER (CN) FOR EXISTING RUNOFF AREAS

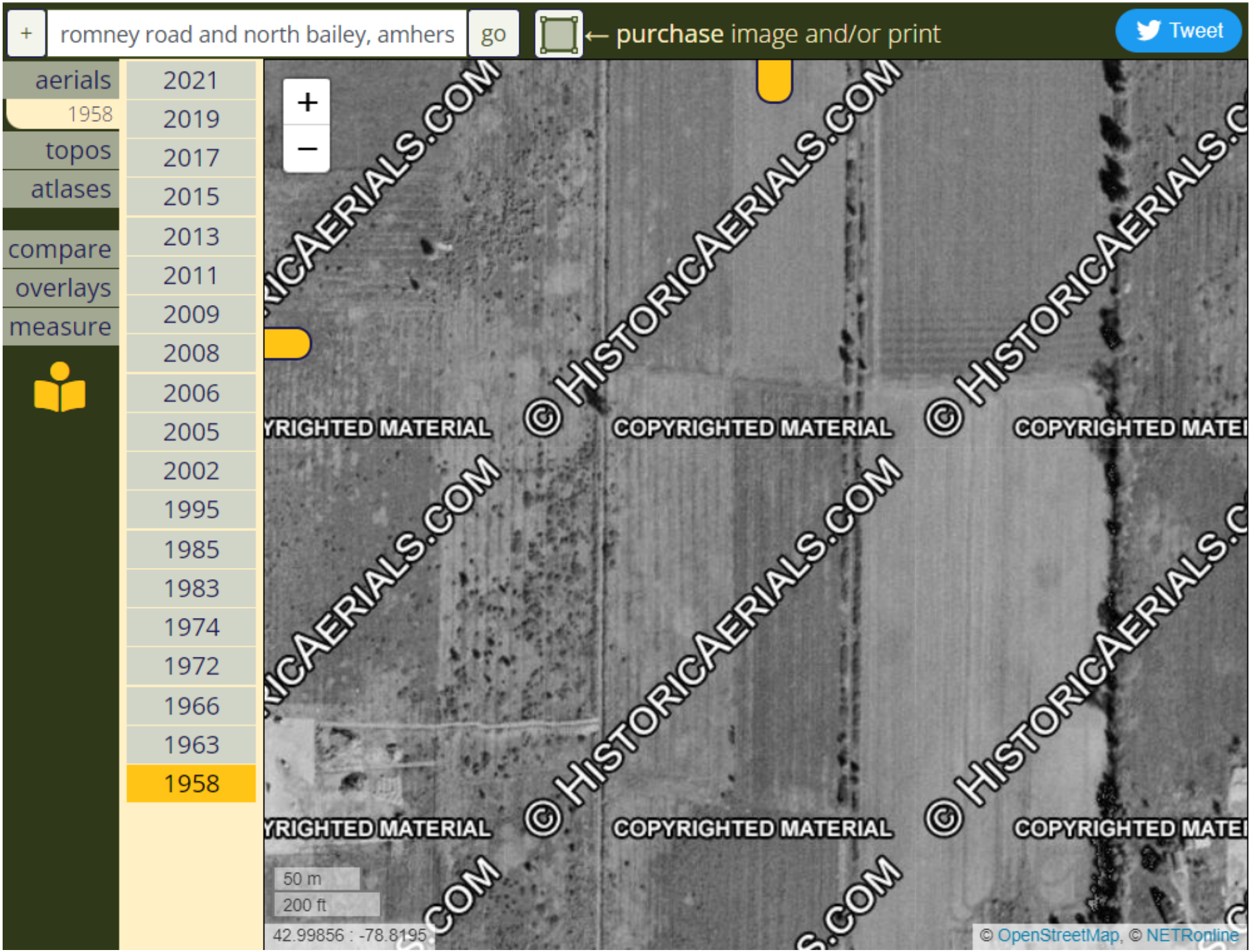
  50% RUNOFF RATE EXISTING LAND COVER
  50% PRIOR TO DEVELOPMENT (1958 HISTORIC AERIAL)
  MEADOW / FARM FIELD

- TOTAL EXISTING AREA = 6.95 AC.

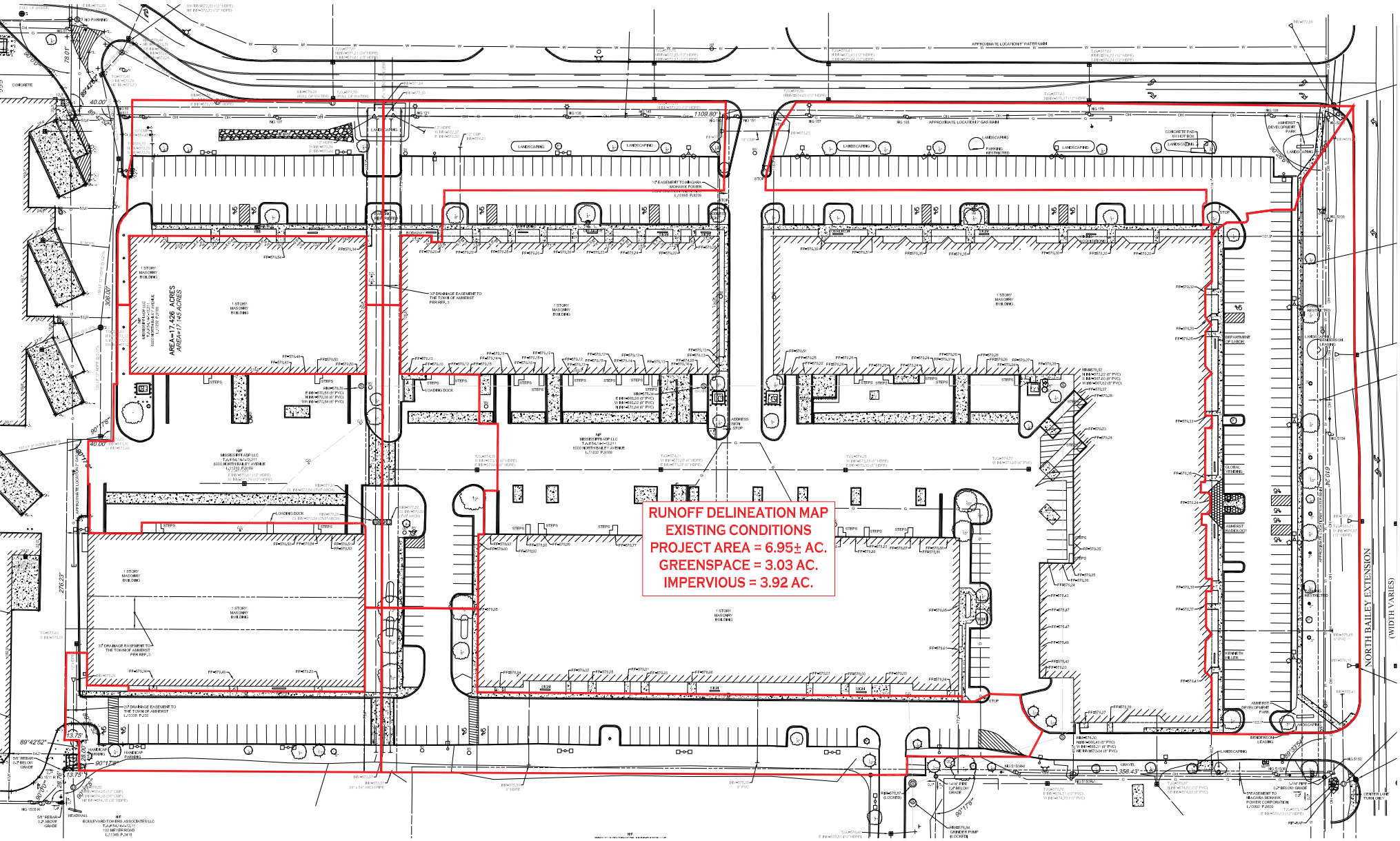
  GRASS/LANDSCAPED = 3.03 AC.
  IMPERVIOUS = 3.92 AC.

(15) APPLY MEDIAN CN: MEADOW/FARM FIELD = 3.48 AC.
GRASS/LANDSCAPED = 1.52 AC.
IMPERVIOUS = 1.95 AC.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

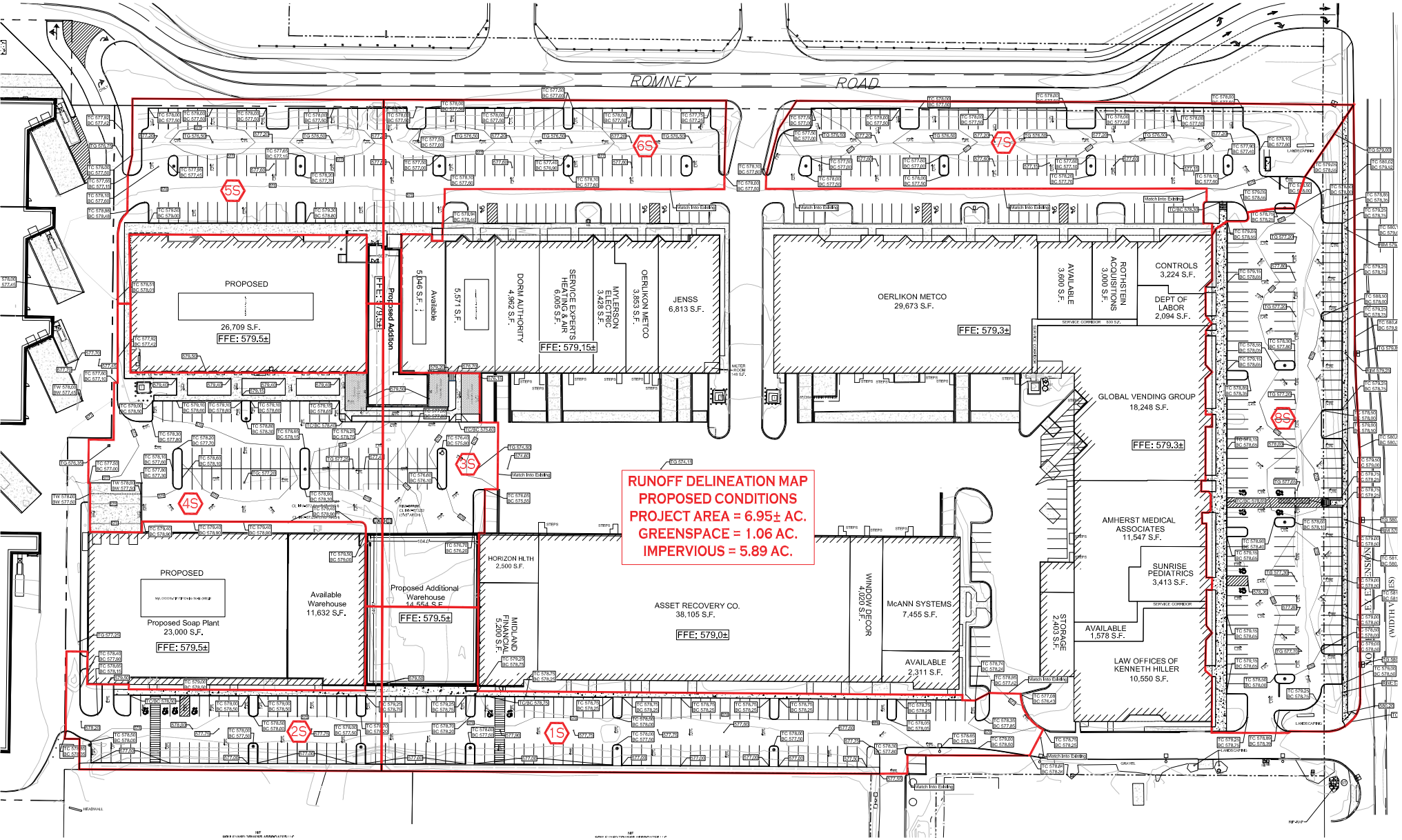


Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Events for Subcatchment 1S: Existing Site

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-Year	1.80	8.12	0.378	0.65
2-Year	2.18	11.64	0.538	0.93
5-Year	2.65	16.25	0.752	1.30
10-Year	3.07	20.51	0.954	1.65
25-Year	3.73	27.36	1.285	2.22
50-Year	4.33	33.68	1.595	2.75
100-Year	**5.03**	**41.10**	**1.967**	**3.40**

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

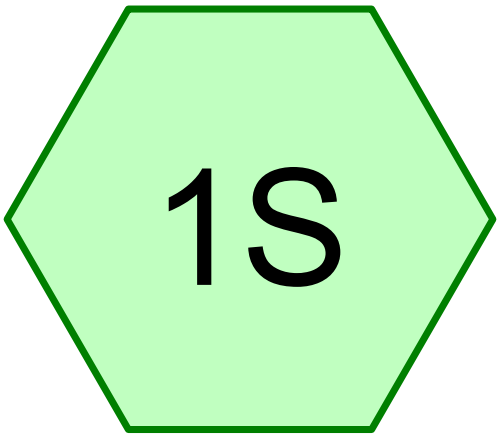
Events for Pond 1P: Detention Storage & Outlet

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)	10% Escalation (cfs)
1-Year	15.93	7.30	572.35	10,004	8.03
2-Year	20.03	9.40	572.49	12,348	10.34
5-Year	25.06	11.90	572.66	15,215	13.09
10-Year	29.54	13.54	572.83	17,843	14.89
25-Year	36.53	18.03	573.09	21,706	19.83
50-Year	42.86	21.83	573.37	25,076	24.01
100-Year	**50.20**	**25.60**	**573.83**	**29,010**	28.16

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

HydroCAD Analysis

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



Existing Site

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Subcat Reach Pond Link

Routing Diagram for 23-4099 Existing
Prepared by Carmina Wood Morris, PC, Printed 11/15/2023
HydroCAD® 10.20-2g s/n 05019 © 2022 HydroCAD Software Solutions LLC

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	1.80	2
2	10-Year	Type II 24-hr		Default	24.00	1	3.07	2
3	25-Year	Type II 24-hr		Default	24.00	1	3.73	2
4	100-Year	Type II 24-hr		Default	24.00	1	5.03	2

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.520	84	50-75% Grass cover, Fair, HSG D (1S)
1.950	98	Impervious (1S)
3.480	78	Meadow, non-grazed, HSG D (1S)
6.950	**85**	**TOTAL AREA**

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
5.000	HSG D	1S
1.950	Other	1S
6.950		**TOTAL AREA**

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchmen Numbers
0.000	0.000	0.000	1.520	0.000	1.520	50-75% Grass cover, Fair	1S
0.000	0.000	0.000	0.000	1.950	1.950	Impervious	1S
0.000	0.000	0.000	3.480	0.000	3.480	Meadow, non-grazed	1S
0.000	**0.000**	**0.000**	**5.000**	**1.950**	**6.950**	**TOTAL AREA**	

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.05 hrs, 1001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Existing Site Runoff Area=6.950 ac 28.06% Impervious Runoff Depth=0.65"
Flow Length=150' Slope=0.0100 '/' Tc=5.0 min CN=85 Runoff=8.12 cfs 0.378 af

Total Runoff Area = 6.950 ac Runoff Volume = 0.378 af Average Runoff Depth = 0.65"
71.94% Pervious = 5.000 ac 28.06% Impervious = 1.950 ac

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Existing Site

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

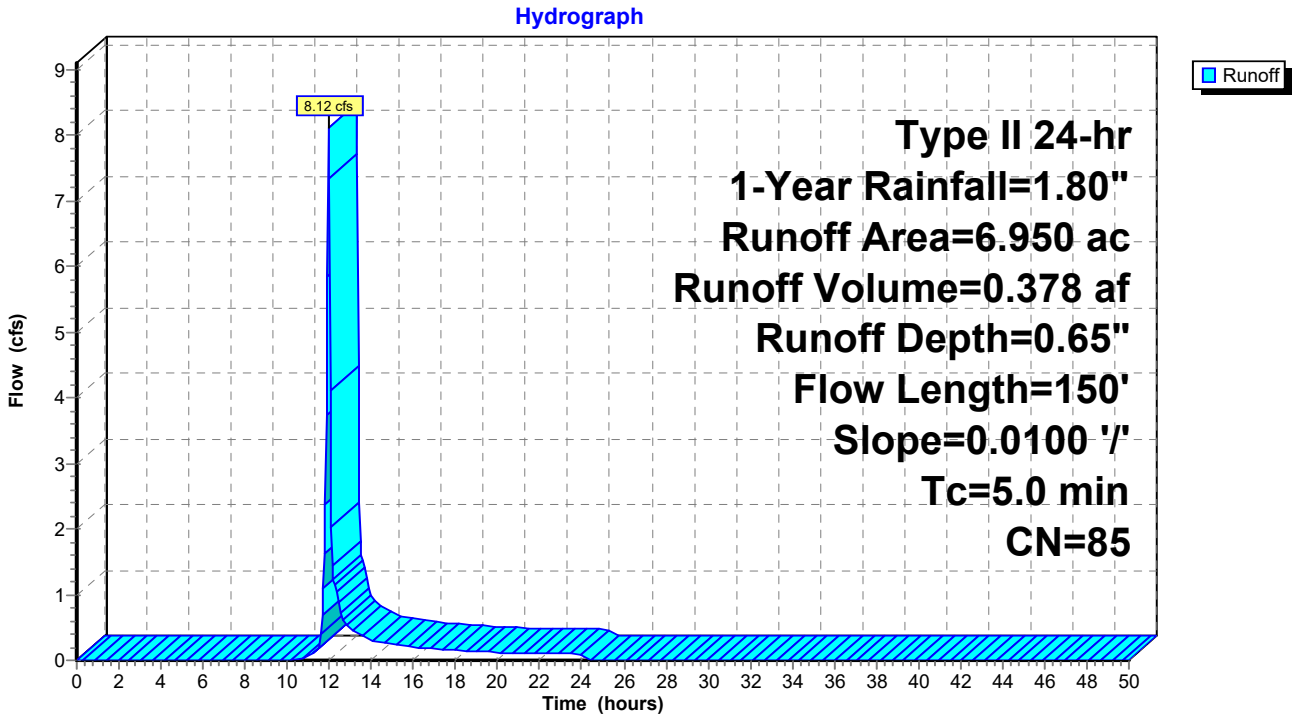
Runoff = 8.12 cfs @ 11.96 hrs, Volume= 0.378 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	3.480	78	Meadow, non-grazed, HSG D
	1.520	84	50-75% Grass cover, Fair, HSG D
*	1.950	98	Impervious
	6.950	85	Weighted Average
	5.000		71.94% Pervious Area
	1.950		28.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	150	0.0100	1.00		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
2.5	150	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.05 hrs, 1001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Existing Site Runoff Area=6.950 ac 28.06% Impervious Runoff Depth=1.65"
Flow Length=150' Slope=0.0100 '/' Tc=5.0 min CN=85 Runoff=20.51 cfs 0.954 af

Total Runoff Area = 6.950 ac Runoff Volume = 0.954 af Average Runoff Depth = 1.65"
71.94% Pervious = 5.000 ac 28.06% Impervious = 1.950 ac

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Existing Site

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

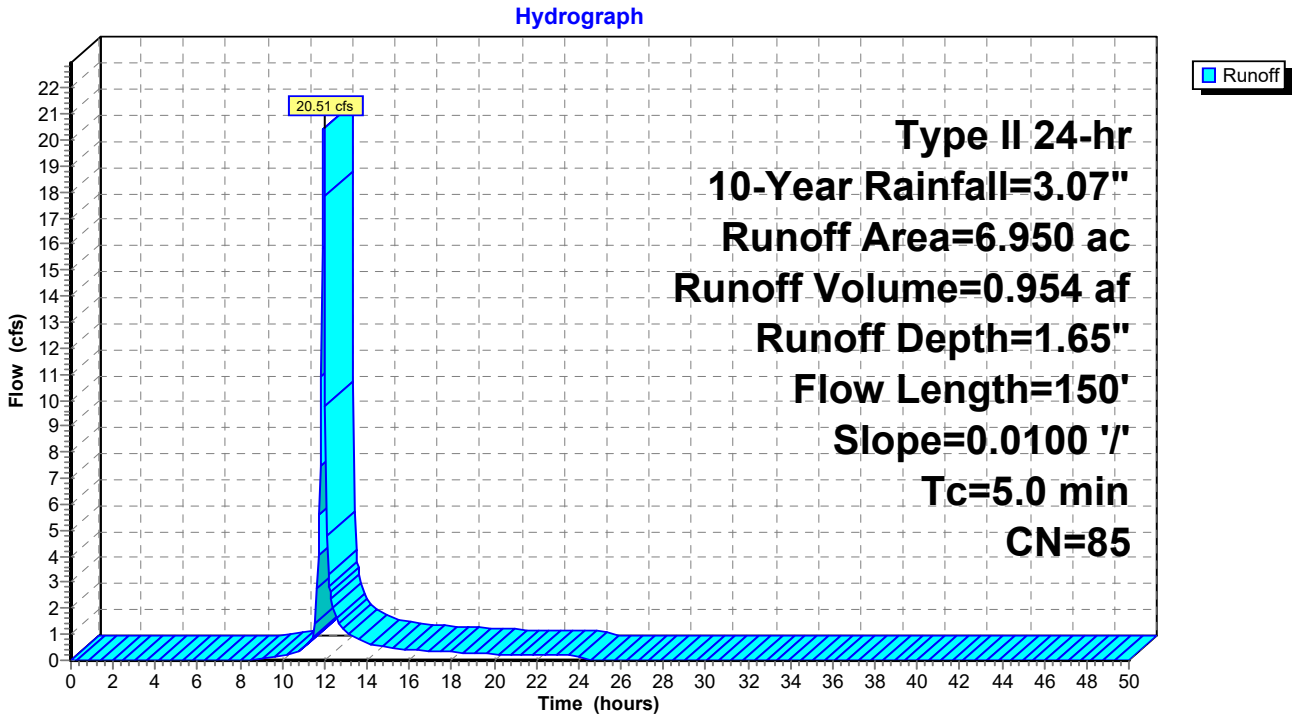
Runoff = 20.51 cfs @ 11.96 hrs, Volume= 0.954 af, Depth= 1.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	3.480	78	Meadow, non-grazed, HSG D
	1.520	84	50-75% Grass cover, Fair, HSG D
*	1.950	98	Impervious
	6.950	85	Weighted Average
	5.000		71.94% Pervious Area
	1.950		28.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	150	0.0100	1.00		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
2.5	150	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.05 hrs, 1001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Existing Site Runoff Area=6.950 ac 28.06% Impervious Runoff Depth=2.22"
Flow Length=150' Slope=0.0100 '/' Tc=5.0 min CN=85 Runoff=27.36 cfs 1.285 af

Total Runoff Area = 6.950 ac Runoff Volume = 1.285 af Average Runoff Depth = 2.22"
71.94% Pervious = 5.000 ac 28.06% Impervious = 1.950 ac

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Existing Site

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

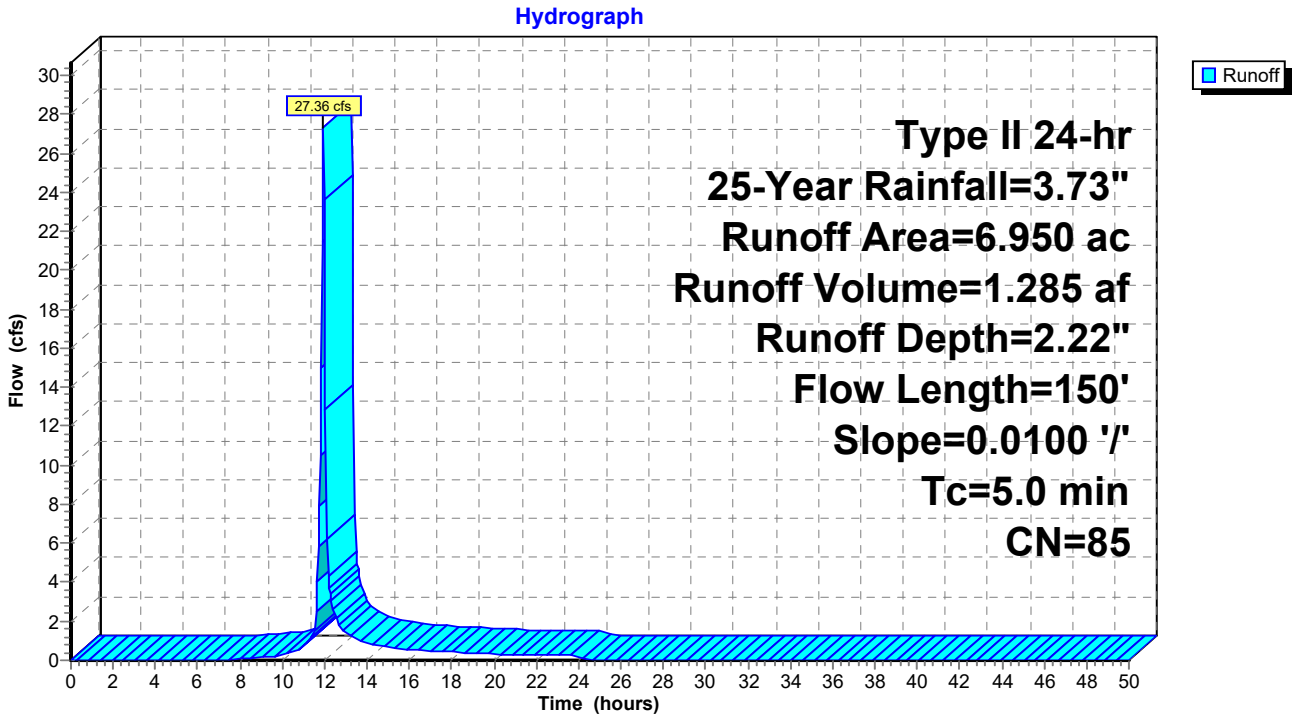
Runoff = 27.36 cfs @ 11.96 hrs, Volume= 1.285 af, Depth= 2.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	3.480	78	Meadow, non-grazed, HSG D
	1.520	84	50-75% Grass cover, Fair, HSG D
*	1.950	98	Impervious
	6.950	85	Weighted Average
	5.000		71.94% Pervious Area
	1.950		28.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	150	0.0100	1.00		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
2.5	150	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.05 hrs, 1001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Existing Site Runoff Area=6.950 ac 28.06% Impervious Runoff Depth=3.40"
Flow Length=150' Slope=0.0100 '/' Tc=5.0 min CN=85 Runoff=41.10 cfs 1.967 af

Total Runoff Area = 6.950 ac Runoff Volume = 1.967 af Average Runoff Depth = 3.40"
71.94% Pervious = 5.000 ac 28.06% Impervious = 1.950 ac

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Existing Site

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

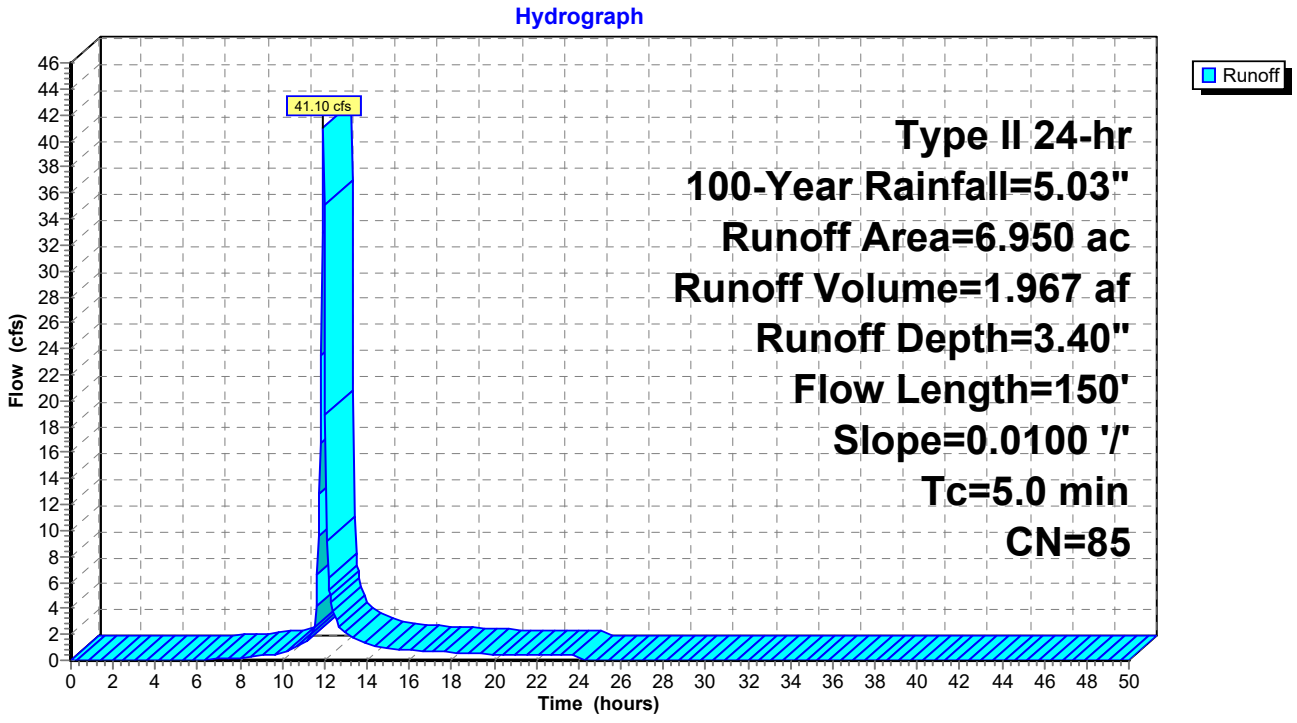
Runoff = 41.10 cfs @ 11.95 hrs, Volume= 1.967 af, Depth= 3.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-Year Rainfall=5.03"

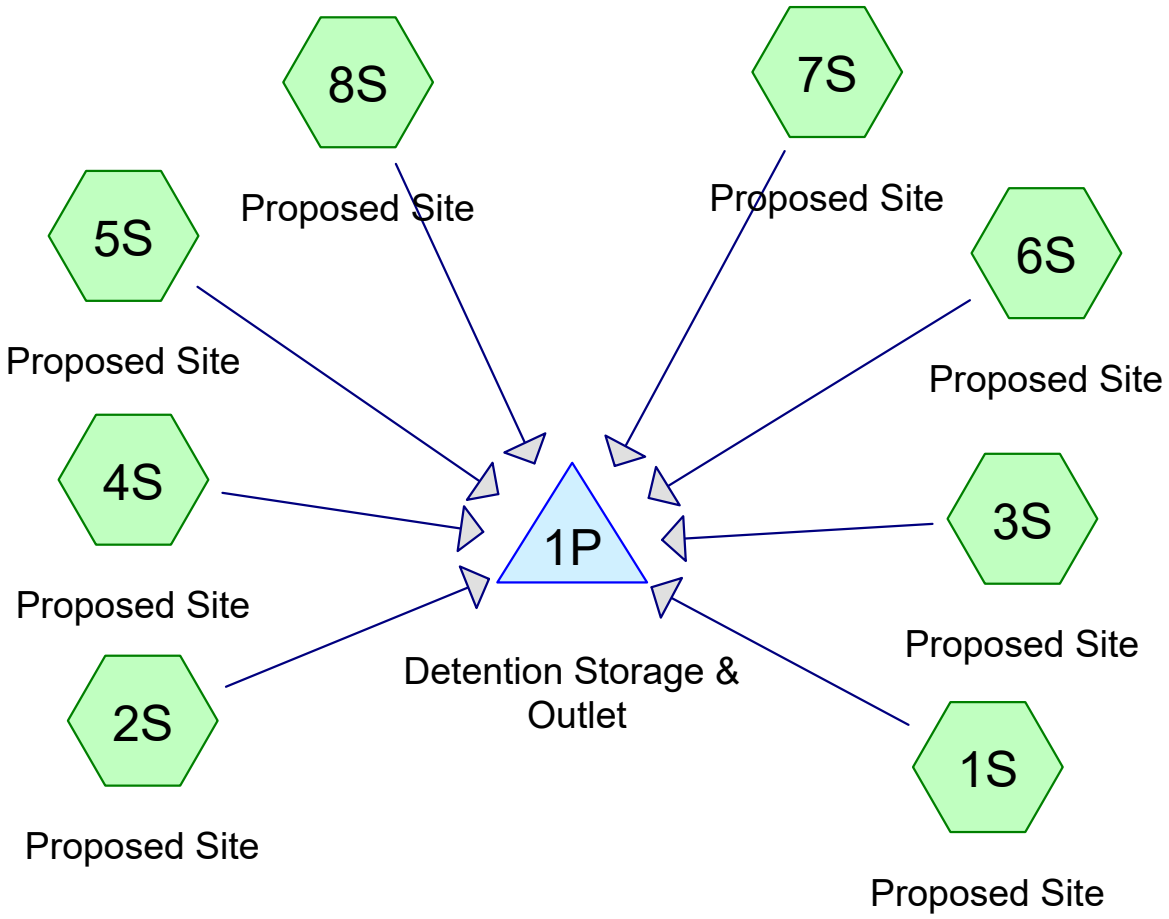
	Area (ac)	CN	Description
	3.480	78	Meadow, non-grazed, HSG D
	1.520	84	50-75% Grass cover, Fair, HSG D
*	1.950	98	Impervious
	6.950	85	Weighted Average
	5.000		71.94% Pervious Area
	1.950		28.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	150	0.0100	1.00		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
2.5	150	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



Subcat Reach Pond Link

Routing Diagram for 23-4099 Proposed
Prepared by Carmina Wood Morris, PC, Printed 11/15/2023
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Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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	1.80	2
2	10-Year	Type II 24-hr		Default	24.00	1	3.07	2
3	25-Year	Type II 24-hr		Default	24.00	1	3.73	2
4	100-Year	Type II 24-hr		Default	24.00	1	5.03	2

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.060	80	>75% Grass cover, Good, HSG D (1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S)
5.890	98	Impervious, HSG D (1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S)
6.950	**95**	**TOTAL AREA**

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
6.950	HSG D	1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S
0.000	Other	
6.950		**TOTAL AREA**

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Ground Covers (all 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	1.060	0.000	1.060	>75% Grass cover, Good	1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S
0.000	0.000	0.000	5.890	0.000	5.890	Impervious	1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S
0.000	**0.000**	**0.000**	**6.950**	**0.000**	**6.950**	**TOTAL AREA**	

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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	571.50	571.50	10.0	0.0000	0.013	0.0	12.0	0.0

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.01 hrs, 5001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Proposed Site Runoff Area=1.120 ac 89.29% Impervious Runoff Depth=1.38"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=2.67 cfs 0.129 af

Subcatchment2S: Proposed Site Runoff Area=0.530 ac 84.91% Impervious Runoff Depth=1.29"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=1.21 cfs 0.057 af

Subcatchment3S: Proposed Site Runoff Area=0.490 ac 93.88% Impervious Runoff Depth=1.48"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=97 Runoff=1.22 cfs 0.060 af

Subcatchment4S: Proposed Site Runoff Area=0.890 ac 87.64% Impervious Runoff Depth=1.38"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=2.12 cfs 0.102 af

Subcatchment5S: Proposed Site Runoff Area=0.710 ac 87.32% Impervious Runoff Depth=1.38"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=1.69 cfs 0.082 af

Subcatchment6S: Proposed Site Runoff Area=0.670 ac 85.07% Impervious Runoff Depth=1.29"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=1.53 cfs 0.072 af

Subcatchment7S: Proposed Site Runoff Area=0.970 ac 77.32% Impervious Runoff Depth=1.21"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=2.10 cfs 0.098 af

Subcatchment8S: Proposed Site Runoff Area=1.570 ac 80.25% Impervious Runoff Depth=1.21"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=3.40 cfs 0.158 af

Pond 1P: Detention Storage & Outlet Peak Elev=572.35' Storage=10,004 cf Inflow=15.93 cfs 0.759 af
12.0" Round Culvert x 5.00 n=0.013 L=10.0' S=0.0000 '/' Outflow=7.30 cfs 0.756 af

Total Runoff Area = 6.950 ac Runoff Volume = 0.759 af Average Runoff Depth = 1.31"
15.25% Pervious = 1.060 ac 84.75% Impervious = 5.890 ac

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Proposed Site

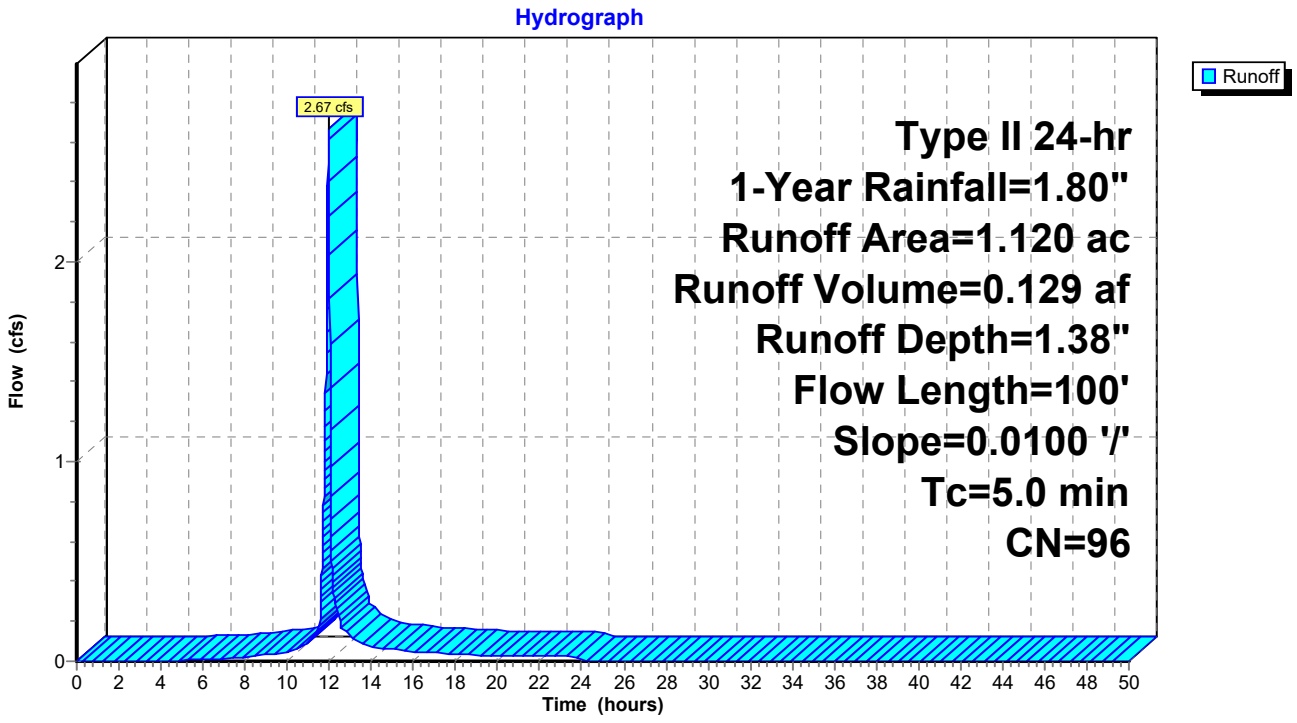
Runoff = 2.67 cfs @ 11.96 hrs, Volume= 0.129 af, Depth= 1.38"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.120	80	>75% Grass cover, Good, HSG D
*	1.000	98	Impervious, HSG D
	1.120	96	Weighted Average
	0.120		10.71% Pervious Area
	1.000		89.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 2S: Proposed Site

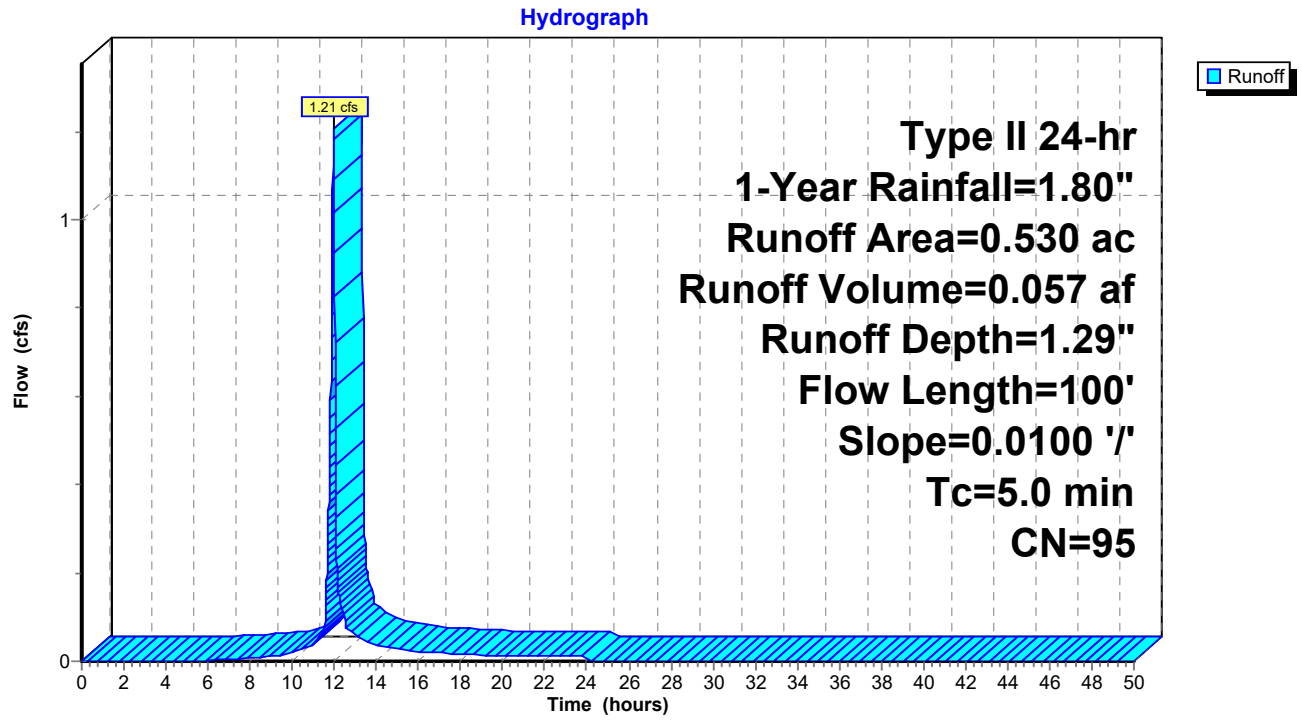
Runoff = 1.21 cfs @ 11.96 hrs, Volume= 0.057 af, Depth= 1.29"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.080	80	>75% Grass cover, Good, HSG D
*	0.450	98	Impervious, HSG D
	0.530	95	Weighted Average
	0.080		15.09% Pervious Area
	0.450		84.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 3S: Proposed Site

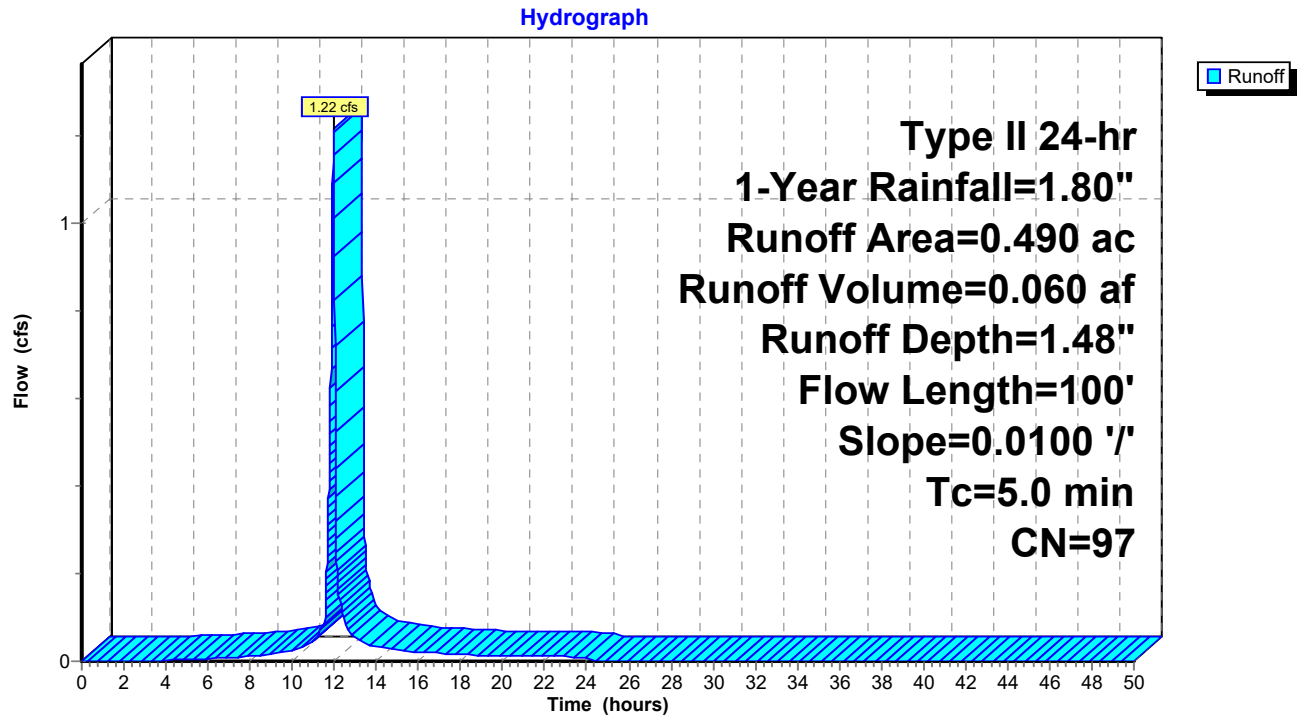
Runoff = 1.22 cfs @ 11.96 hrs, Volume= 0.060 af, Depth= 1.48"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.030	80	>75% Grass cover, Good, HSG D
*	0.460	98	Impervious, HSG D
	0.490	97	Weighted Average
	0.030		6.12% Pervious Area
	0.460		93.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 3S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 4S: Proposed Site

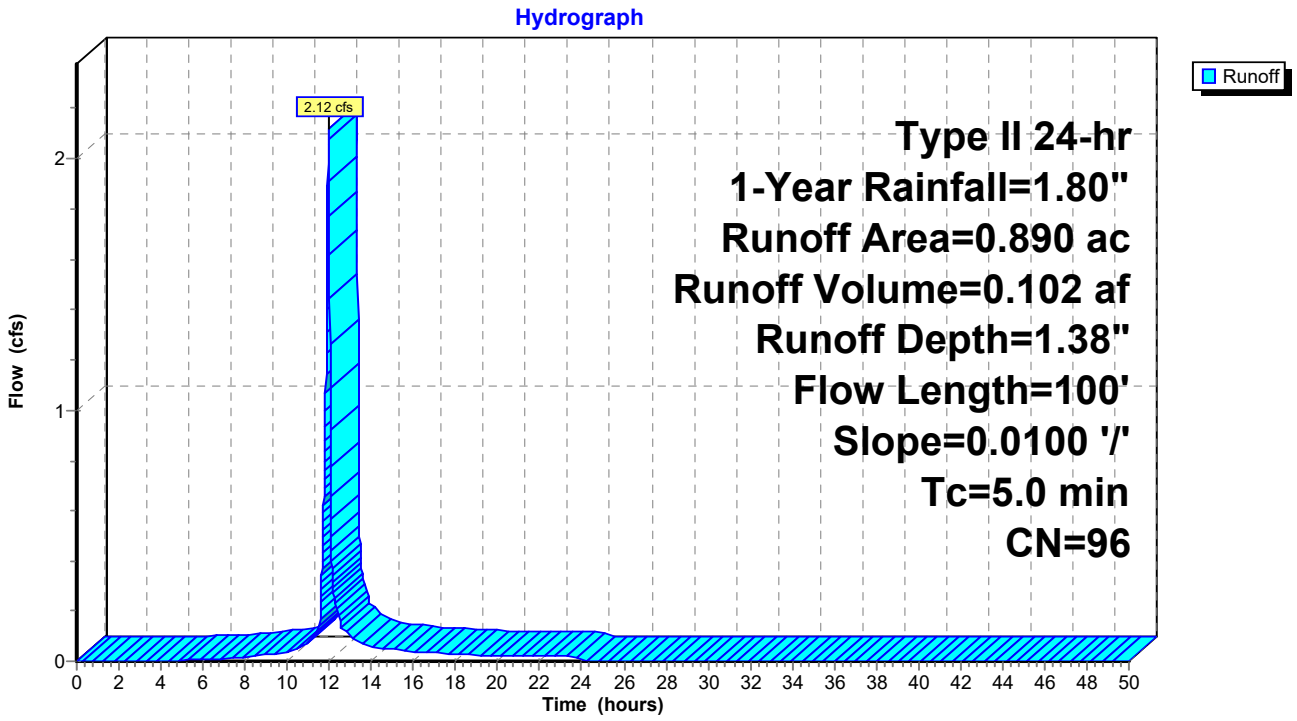
Runoff = 2.12 cfs @ 11.96 hrs, Volume= 0.102 af, Depth= 1.38"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.110	80	>75% Grass cover, Good, HSG D
*	0.780	98	Impervious, HSG D
	0.890	96	Weighted Average
	0.110		12.36% Pervious Area
	0.780		87.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 4S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 5S: Proposed Site

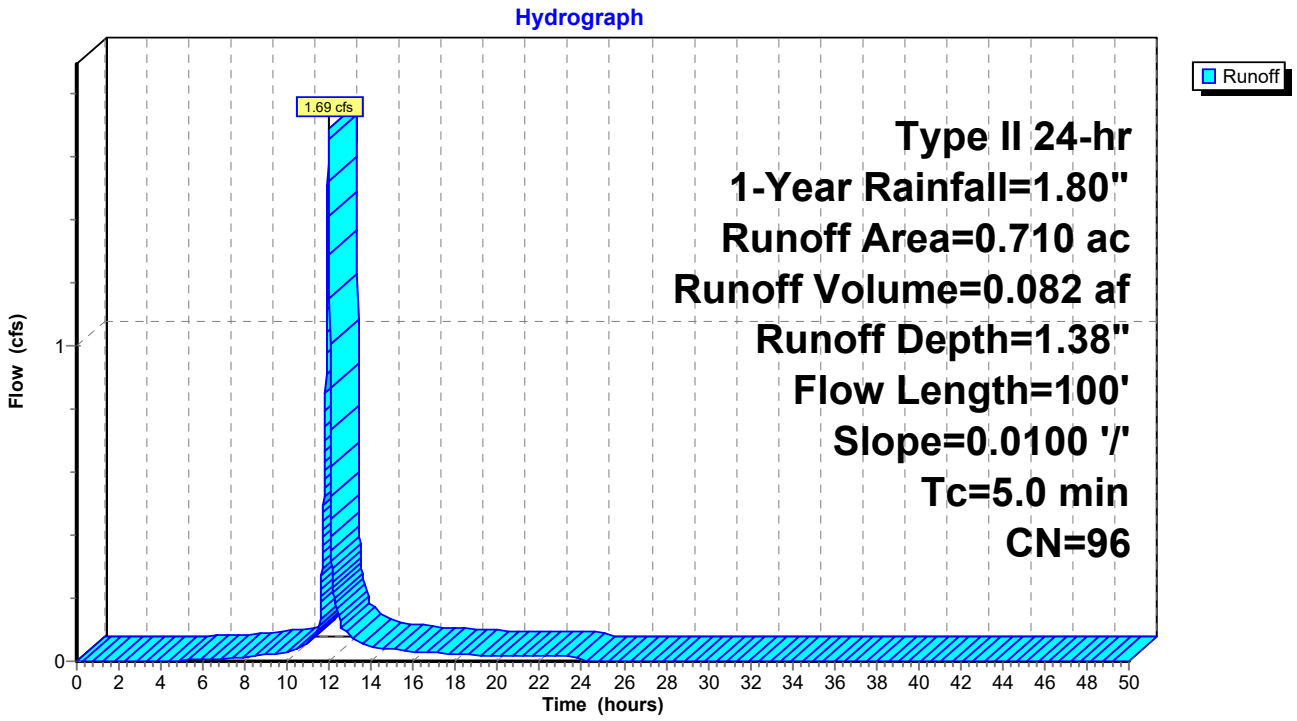
Runoff = 1.69 cfs @ 11.96 hrs, Volume= 0.082 af, Depth= 1.38"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.090	80	>75% Grass cover, Good, HSG D
*	0.620	98	Impervious, HSG D
	0.710	96	Weighted Average
	0.090		12.68% Pervious Area
	0.620		87.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 5S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 6S: Proposed Site

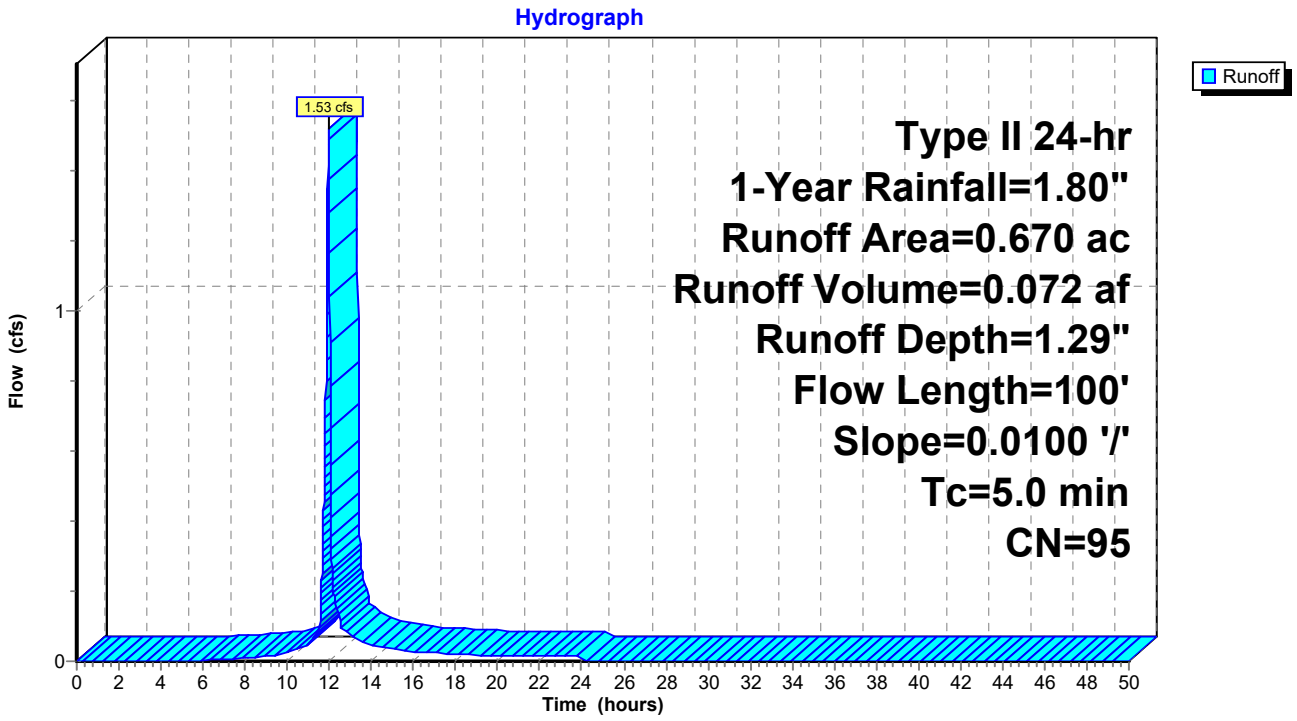
Runoff = 1.53 cfs @ 11.96 hrs, Volume= 0.072 af, Depth= 1.29"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.100	80	>75% Grass cover, Good, HSG D
*	0.570	98	Impervious, HSG D
	0.670	95	Weighted Average
	0.100		14.93% Pervious Area
	0.570		85.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 6S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 7S: Proposed Site

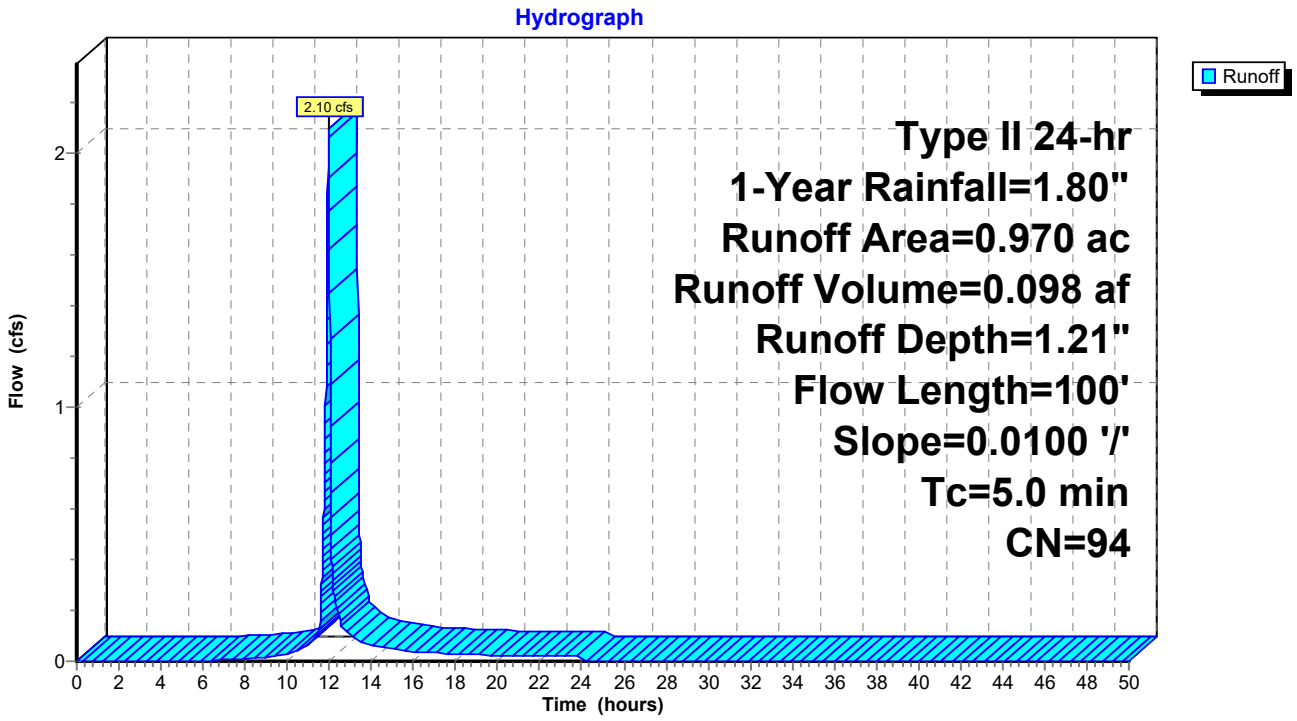
Runoff = 2.10 cfs @ 11.96 hrs, Volume= 0.098 af, Depth= 1.21"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.220	80	>75% Grass cover, Good, HSG D
*	0.750	98	Impervious, HSG D
	0.970	94	Weighted Average
	0.220		22.68% Pervious Area
	0.750		77.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 7S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 8S: Proposed Site

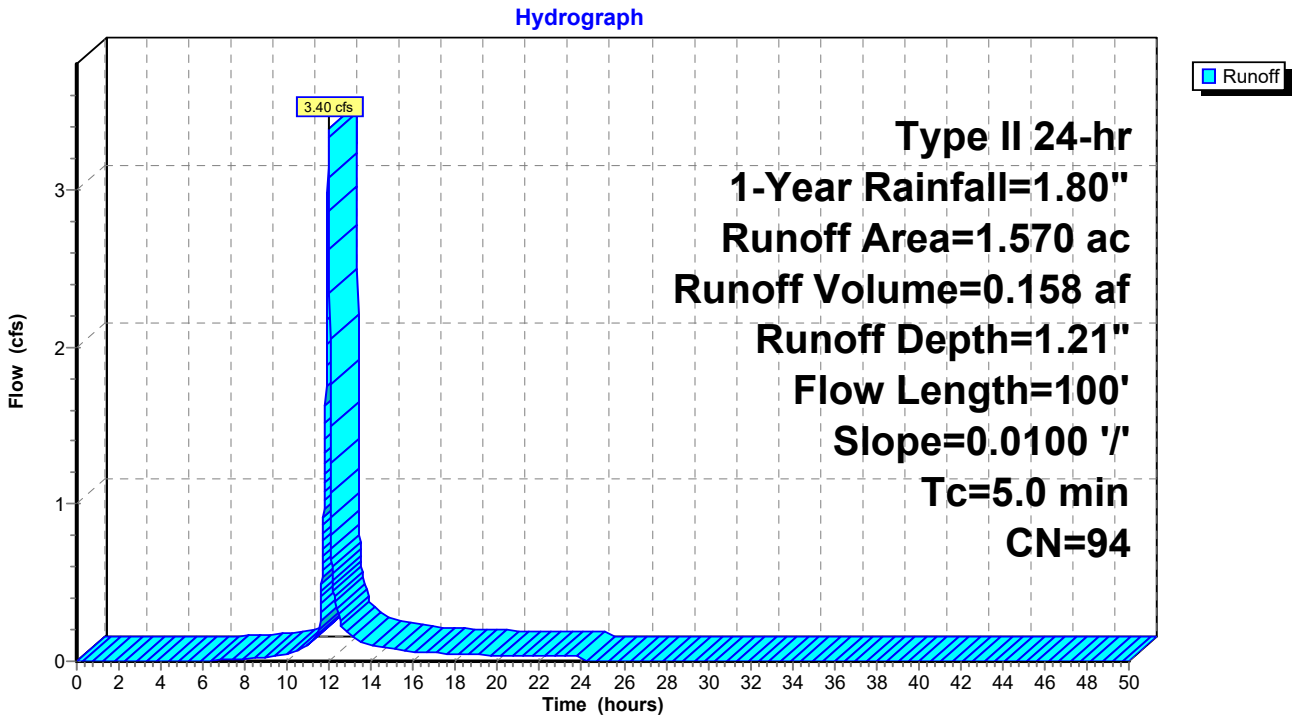
Runoff = 3.40 cfs @ 11.96 hrs, Volume= 0.158 af, Depth= 1.21"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.310	80	>75% Grass cover, Good, HSG D
*	1.260	98	Impervious, HSG D
	1.570	94	Weighted Average
	0.310		19.75% Pervious Area
	1.260		80.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 8S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Pond 1P: Detention Storage & Outlet

Inflow Area = 6.950 ac, 84.75% Impervious, Inflow Depth = 1.31" for 1-Year event
Inflow = 15.93 cfs @ 11.96 hrs, Volume= 0.759 af
Outflow = 7.30 cfs @ 12.05 hrs, Volume= 0.756 af, Atten= 54%, Lag= 5.3 min
Primary = 7.30 cfs @ 12.05 hrs, Volume= 0.756 af
Routed to nonexistent node 1L

Routing by Dyn-Stor-Ind method, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Peak Elev= 572.35' @ 12.05 hrs Surf.Area= 20,584 sf Storage= 10,004 cf

Plug-Flow detention time= 55.9 min calculated for 0.756 af (100% of inflow)
Center-of-Mass det. time= 53.4 min (847.4 - 793.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	571.50'	14,391 cf	**82.75'W x 248.75'L x 2.54'H Field A** 52,318 cf Overall - 16,341 cf Embedded = 35,977 cf x 40.0% Voids
#2A	572.00'	16,341 cf	**Cultec R-150XLHD** x 600 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap Row Length Adjustment= +0.75' x 2.65 sf x 25 rows
		30,732 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	571.50'	**12.0" Round Outlet Pipe X 5.00** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 571.50' / 571.50' S= 0.0000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=7.30 cfs @ 12.05 hrs HW=572.35' (Free Discharge)
↑**1=Outlet Pipe** (Barrel Controls 7.30 cfs @ 2.78 fps)

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet - Chamber Wizard Field A

Chamber Model = Cultec R-150XLHD (Cultec Recharger®150XLHD)
Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
Row Length Adjustment= +0.75' x 2.65 sf x 25 rows

33.0" Wide + 6.0" Spacing = 39.0" C-C Row Spacing

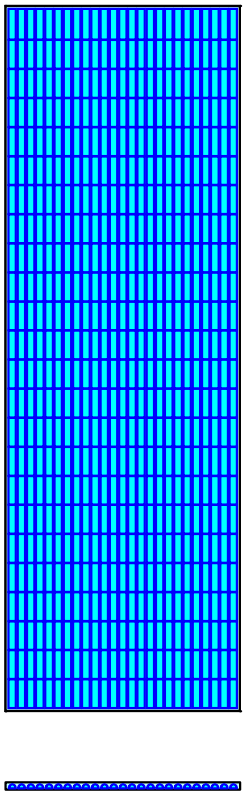
24 Chambers/Row x 10.25' Long +0.75' Row Adjustment = 246.75' Row Length +12.0" End Stone x 2 = 248.75' Base Length
25 Rows x 33.0" Wide + 6.0" Spacing x 24 + 12.0" Side Stone x 2 = 82.75' Base Width
6.0" Stone Base + 18.5" Chamber Height + 6.0" Stone Cover = 2.54' Field Height

600 Chambers x 27.2 cf +0.75' Row Adjustment x 2.65 sf x 25 Rows = 16,341.0 cf Chamber Storage

52,317.8 cf Field - 16,341.0 cf Chambers = 35,976.8 cf Stone x 40.0% Voids = 14,390.7 cf Stone Storage

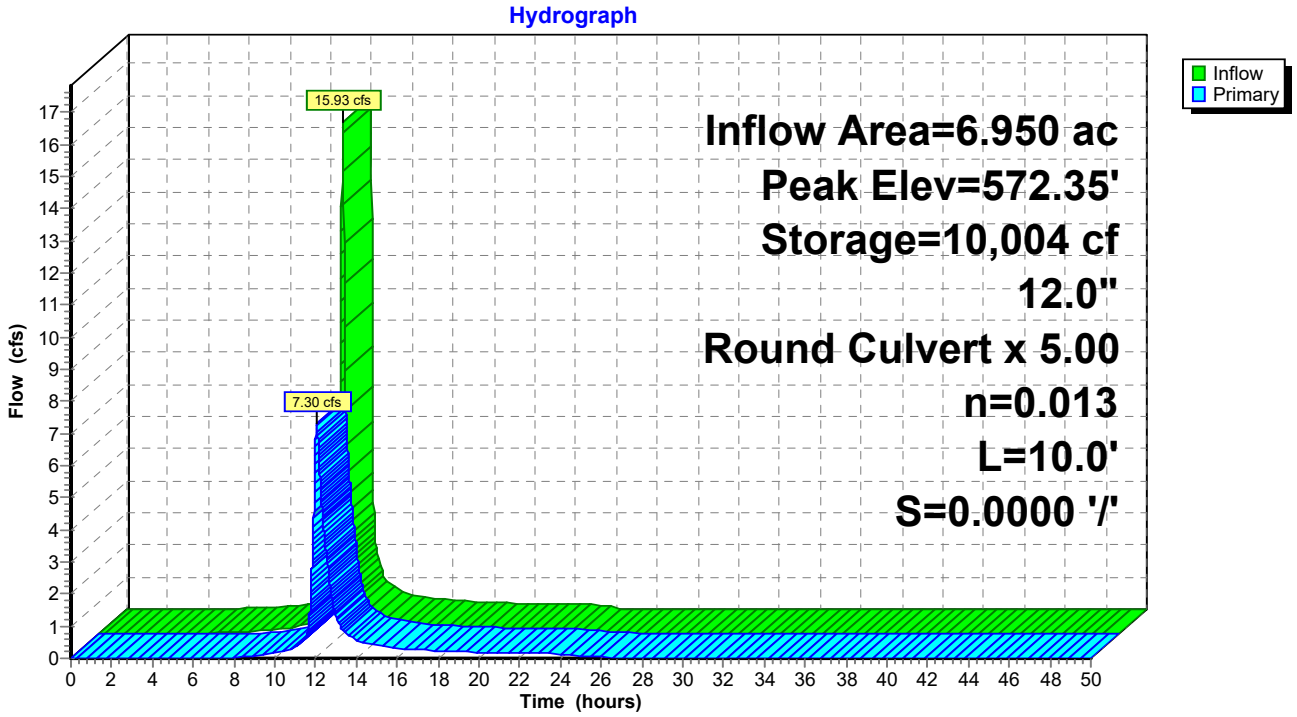
Chamber Storage + Stone Storage = 30,731.7 cf = 0.706 af
Overall Storage Efficiency = 58.7%
Overall System Size = 248.75' x 82.75' x 2.54'

600 Chambers
1,937.7 cy Field
1,332.5 cy Stone



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.01 hrs, 5001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Proposed Site Runoff Area=1.120 ac 89.29% Impervious Runoff Depth=2.62"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=4.85 cfs 0.245 af

Subcatchment2S: Proposed Site Runoff Area=0.530 ac 84.91% Impervious Runoff Depth=2.52"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=2.25 cfs 0.111 af

Subcatchment3S: Proposed Site Runoff Area=0.490 ac 93.88% Impervious Runoff Depth=2.73"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=97 Runoff=2.16 cfs 0.111 af

Subcatchment4S: Proposed Site Runoff Area=0.890 ac 87.64% Impervious Runoff Depth=2.62"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=3.86 cfs 0.194 af

Subcatchment5S: Proposed Site Runoff Area=0.710 ac 87.32% Impervious Runoff Depth=2.62"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=3.08 cfs 0.155 af

Subcatchment6S: Proposed Site Runoff Area=0.670 ac 85.07% Impervious Runoff Depth=2.52"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=2.84 cfs 0.141 af

Subcatchment7S: Proposed Site Runoff Area=0.970 ac 77.32% Impervious Runoff Depth=2.42"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=4.01 cfs 0.195 af

Subcatchment8S: Proposed Site Runoff Area=1.570 ac 80.25% Impervious Runoff Depth=2.42"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=6.50 cfs 0.316 af

Pond 1P: Detention Storage & Outlet Peak Elev=572.83' Storage=17,843 cf Inflow=29.54 cfs 1.469 af
12.0" Round Culvert x 5.00 n=0.013 L=10.0' S=0.0000 '/' Outflow=13.54 cfs 1.466 af

Total Runoff Area = 6.950 ac Runoff Volume = 1.469 af Average Runoff Depth = 2.54"
15.25% Pervious = 1.060 ac 84.75% Impervious = 5.890 ac

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Proposed Site

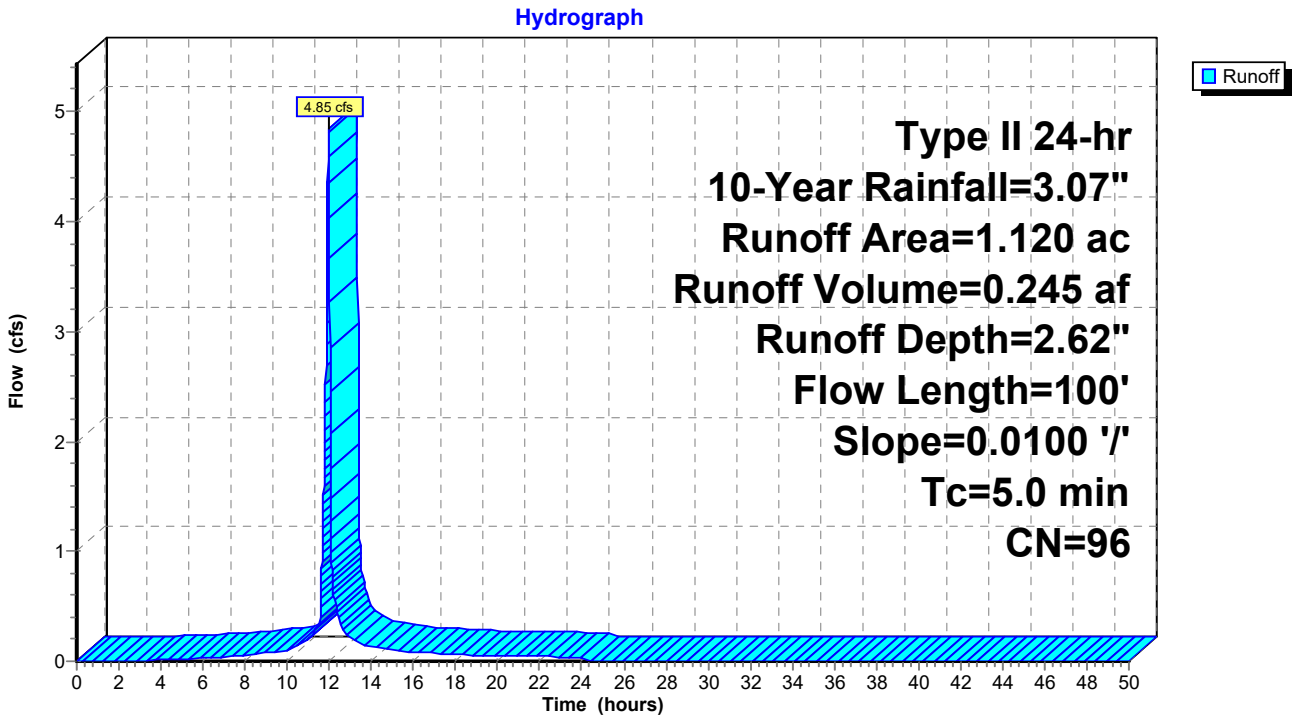
Runoff = 4.85 cfs @ 11.96 hrs, Volume= 0.245 af, Depth= 2.62"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.120	80	>75% Grass cover, Good, HSG D
*	1.000	98	Impervious, HSG D
	1.120	96	Weighted Average
	0.120		10.71% Pervious Area
	1.000		89.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 2S: Proposed Site

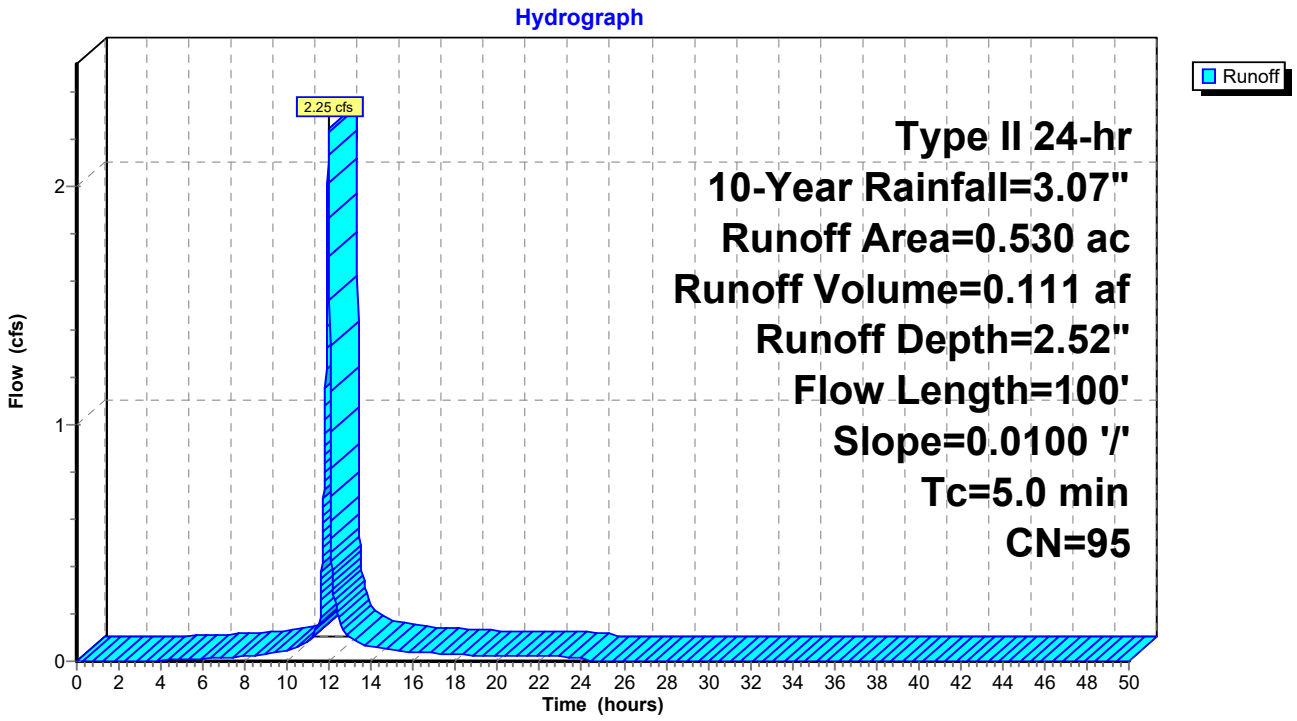
Runoff = 2.25 cfs @ 11.96 hrs, Volume= 0.111 af, Depth= 2.52"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.080	80	>75% Grass cover, Good, HSG D
*	0.450	98	Impervious, HSG D
	0.530	95	Weighted Average
	0.080		15.09% Pervious Area
	0.450		84.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 3S: Proposed Site

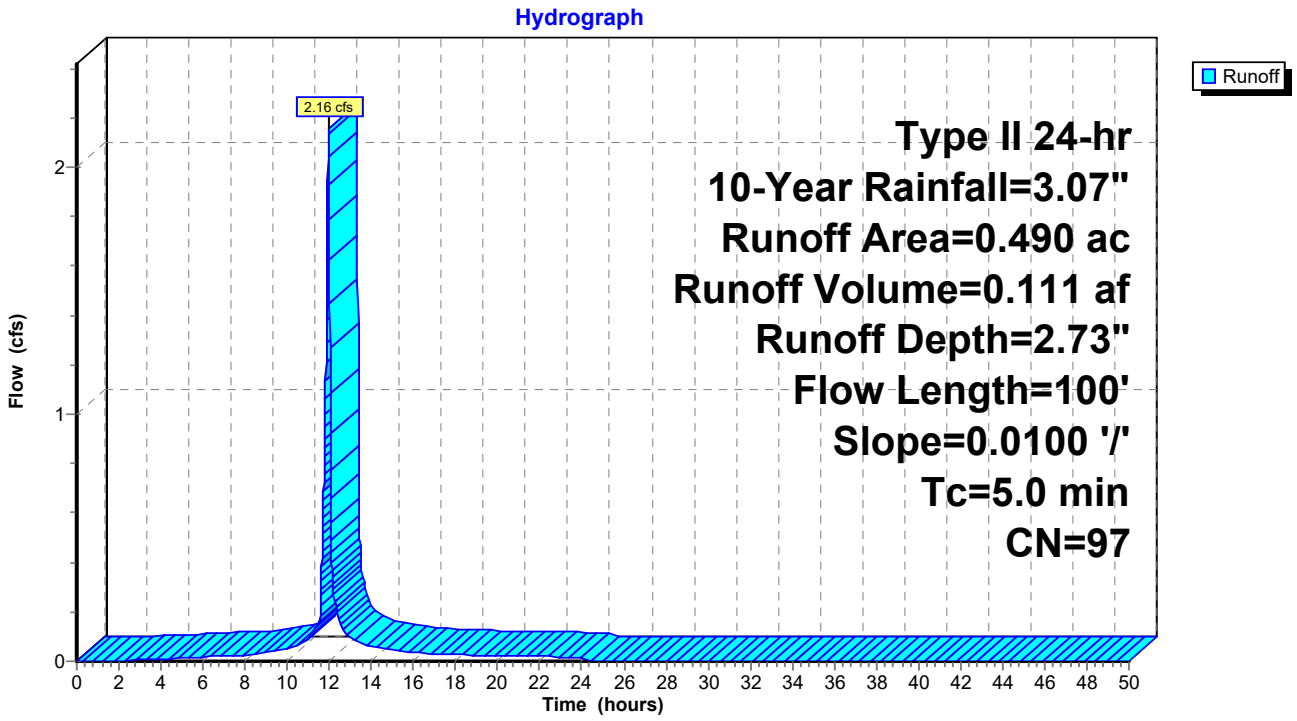
Runoff = 2.16 cfs @ 11.96 hrs, Volume= 0.111 af, Depth= 2.73"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.030	80	>75% Grass cover, Good, HSG D
*	0.460	98	Impervious, HSG D
	0.490	97	Weighted Average
	0.030		6.12% Pervious Area
	0.460		93.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 3S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 4S: Proposed Site

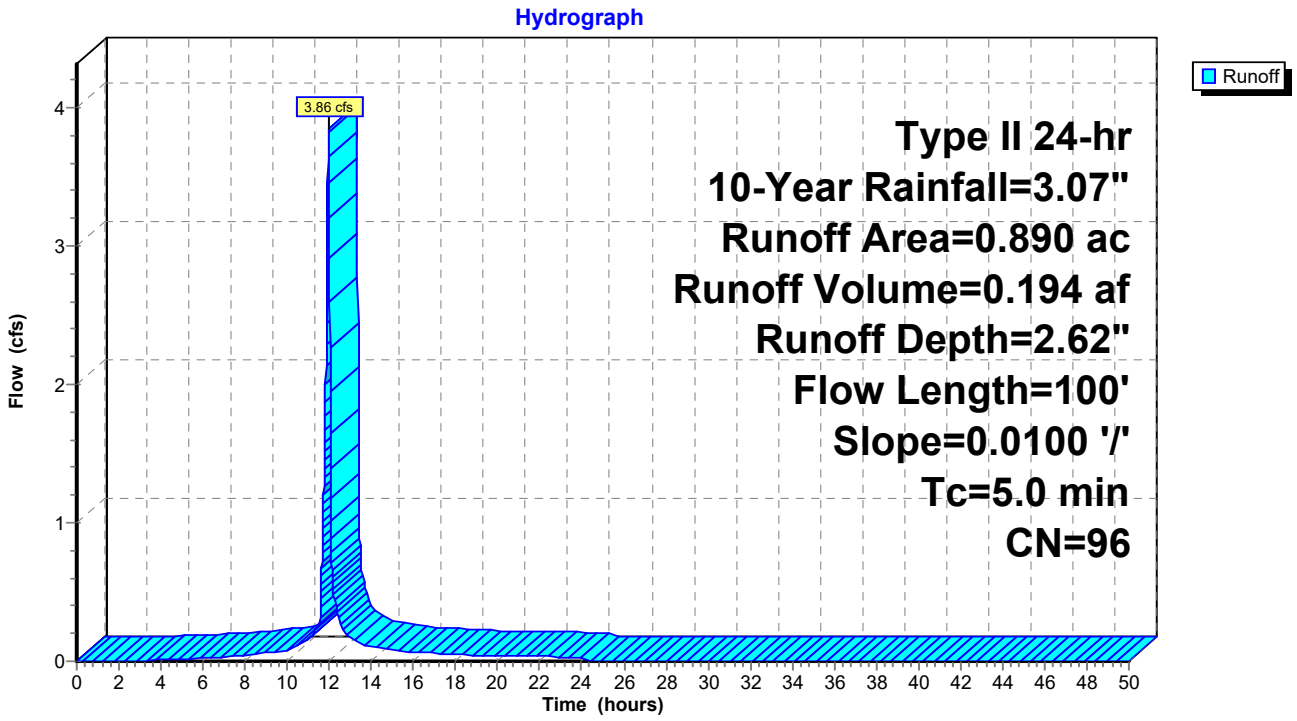
Runoff = 3.86 cfs @ 11.96 hrs, Volume= 0.194 af, Depth= 2.62"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.110	80	>75% Grass cover, Good, HSG D
*	0.780	98	Impervious, HSG D
	0.890	96	Weighted Average
	0.110		12.36% Pervious Area
	0.780		87.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 4S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 5S: Proposed Site

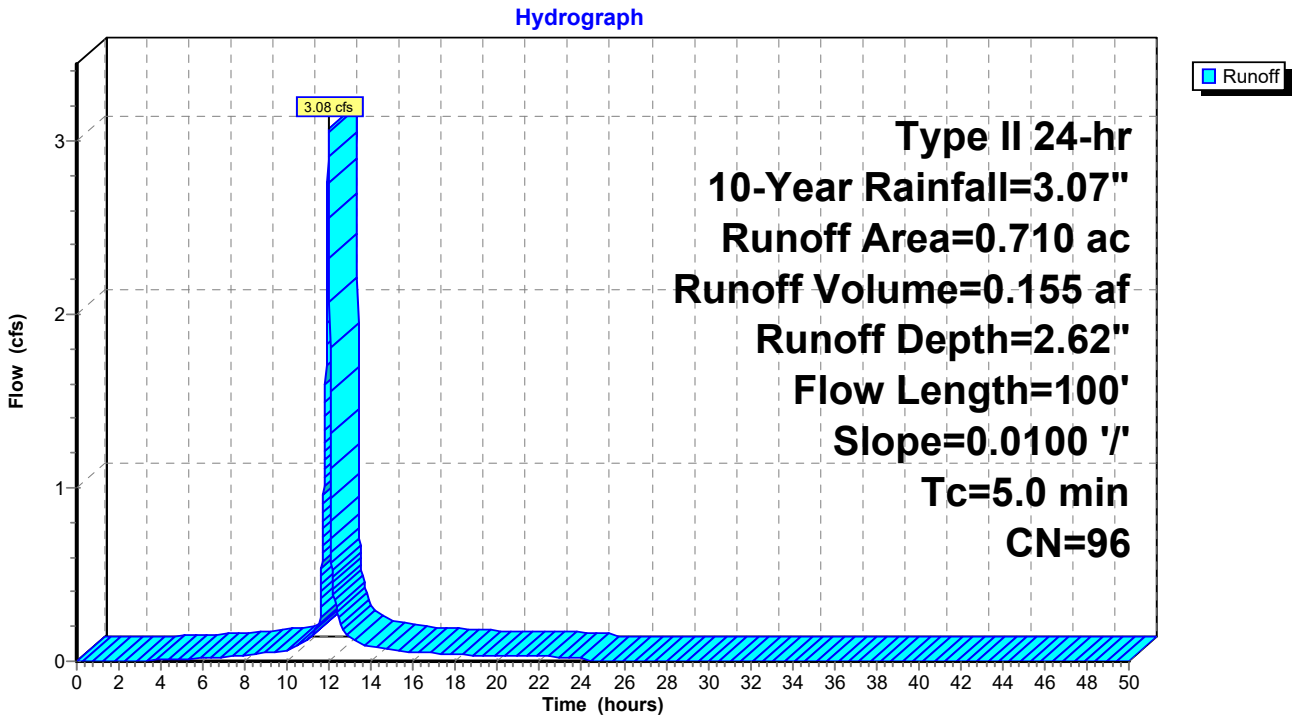
Runoff = 3.08 cfs @ 11.96 hrs, Volume= 0.155 af, Depth= 2.62"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.090	80	>75% Grass cover, Good, HSG D
*	0.620	98	Impervious, HSG D
	0.710	96	Weighted Average
	0.090		12.68% Pervious Area
	0.620		87.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 5S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 6S: Proposed Site

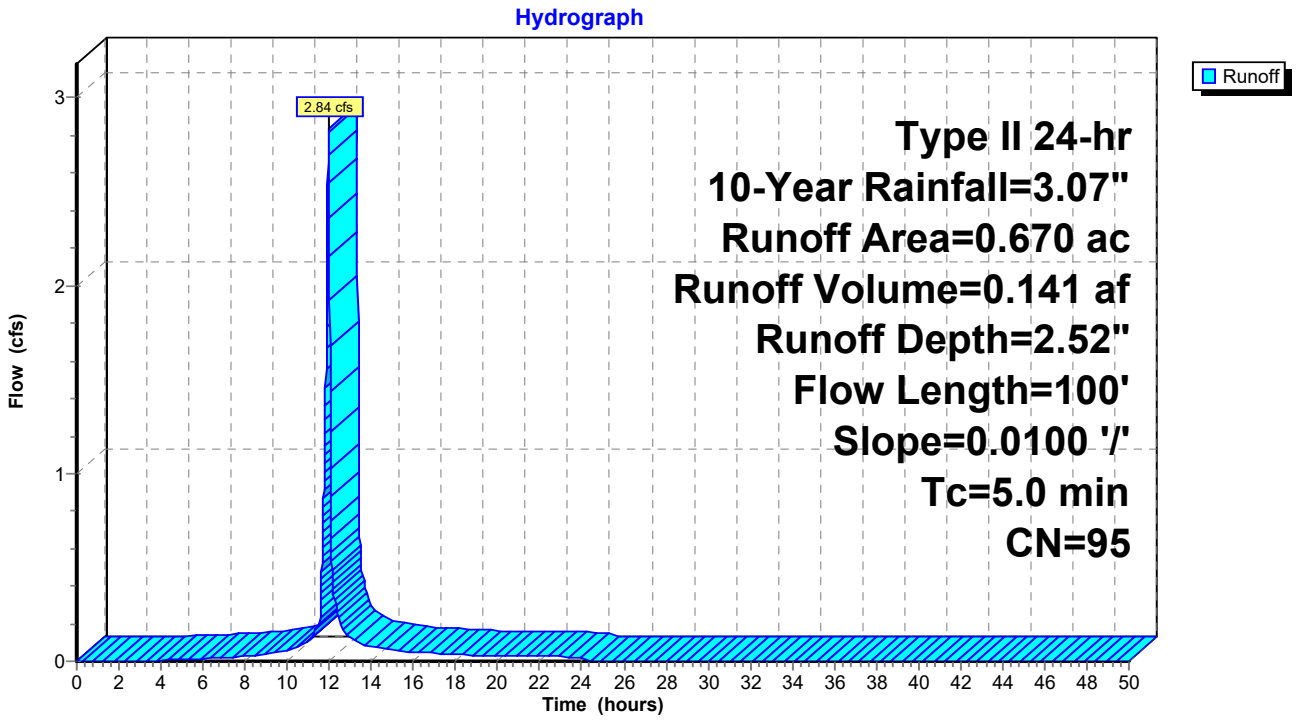
Runoff = 2.84 cfs @ 11.96 hrs, Volume= 0.141 af, Depth= 2.52"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.100	80	>75% Grass cover, Good, HSG D
*	0.570	98	Impervious, HSG D
	0.670	95	Weighted Average
	0.100		14.93% Pervious Area
	0.570		85.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 6S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 7S: Proposed Site

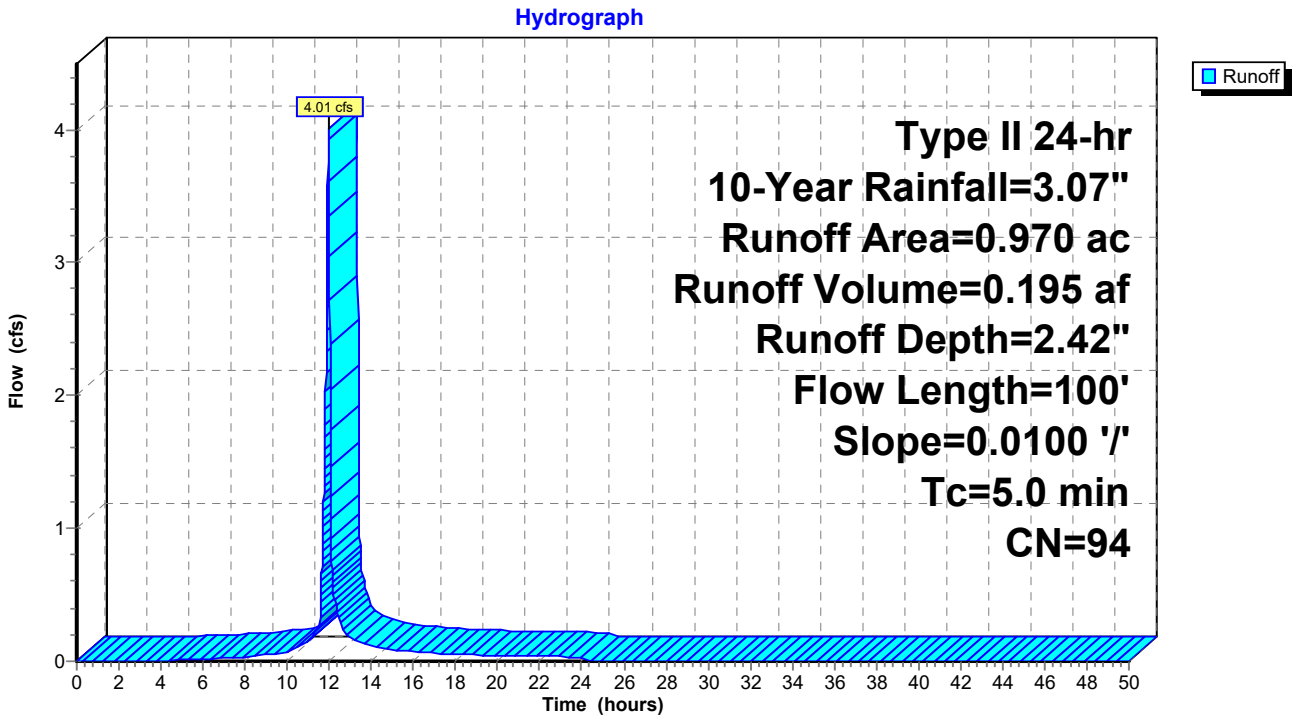
Runoff = 4.01 cfs @ 11.96 hrs, Volume= 0.195 af, Depth= 2.42"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.220	80	>75% Grass cover, Good, HSG D
*	0.750	98	Impervious, HSG D
	0.970	94	Weighted Average
	0.220		22.68% Pervious Area
	0.750		77.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 7S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 8S: Proposed Site

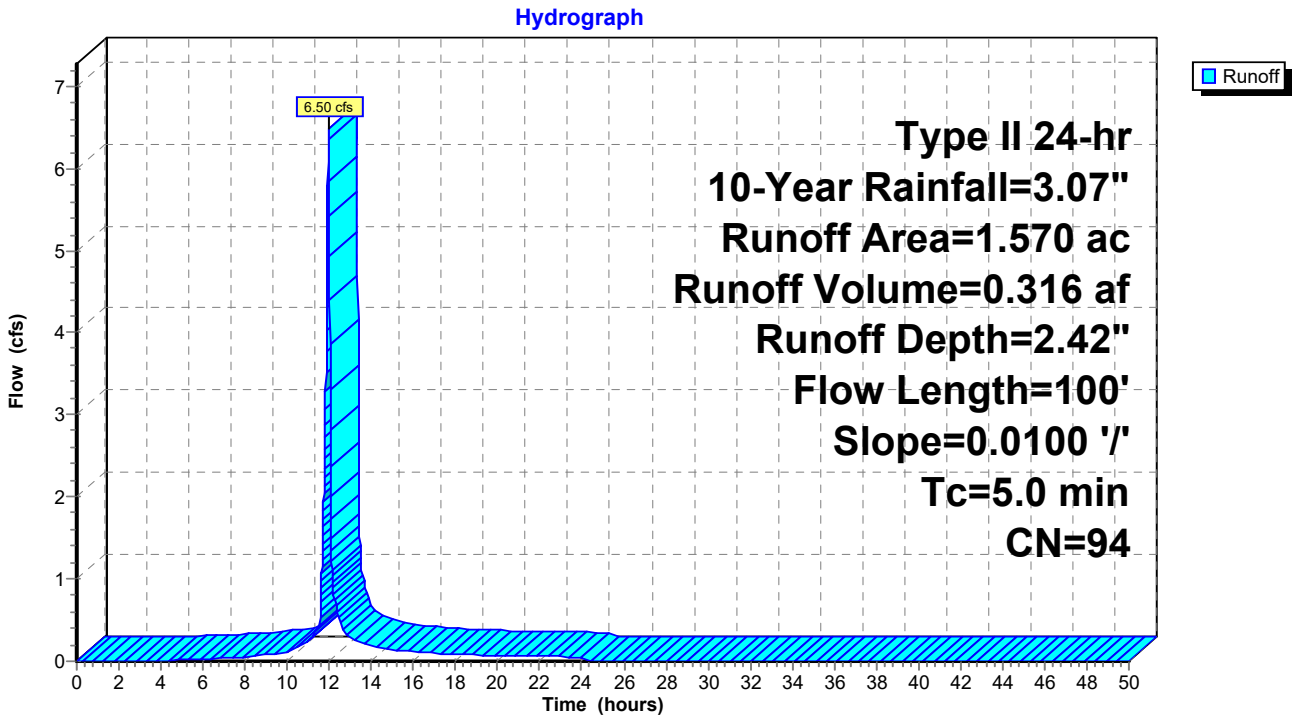
Runoff = 6.50 cfs @ 11.96 hrs, Volume= 0.316 af, Depth= 2.42"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.310	80	>75% Grass cover, Good, HSG D
*	1.260	98	Impervious, HSG D
	1.570	94	Weighted Average
	0.310		19.75% Pervious Area
	1.260		80.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 8S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Pond 1P: Detention Storage & Outlet

Inflow Area = 6.950 ac, 84.75% Impervious, Inflow Depth = 2.54" for 10-Year event
Inflow = 29.54 cfs @ 11.96 hrs, Volume= 1.469 af
Outflow = 13.54 cfs @ 12.04 hrs, Volume= 1.466 af, Atten= 54%, Lag= 5.3 min
Primary = 13.54 cfs @ 12.04 hrs, Volume= 1.466 af
Routed to nonexistent node 1L

Routing by Dyn-Stor-Ind method, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Peak Elev= 572.83' @ 12.05 hrs Surf.Area= 20,584 sf Storage= 17,843 cf

Plug-Flow detention time= 42.6 min calculated for 1.466 af (100% of inflow)
Center-of-Mass det. time= 41.5 min (817.6 - 776.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	571.50'	14,391 cf	**82.75'W x 248.75'L x 2.54'H Field A** 52,318 cf Overall - 16,341 cf Embedded = 35,977 cf x 40.0% Voids
#2A	572.00'	16,341 cf	**Cultec R-150XLHD** x 600 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap Row Length Adjustment= +0.75' x 2.65 sf x 25 rows
		30,732 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	571.50'	**12.0" Round Outlet Pipe X 5.00** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 571.50' / 571.50' S= 0.0000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=13.54 cfs @ 12.04 hrs HW=572.83' (Free Discharge)
↑**1=Outlet Pipe** (Barrel Controls 13.54 cfs @ 3.45 fps)

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet - Chamber Wizard Field A

Chamber Model = Cultec R-150XLHD (Cultec Recharger®150XLHD)
Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
Row Length Adjustment= +0.75' x 2.65 sf x 25 rows

33.0" Wide + 6.0" Spacing = 39.0" C-C Row Spacing

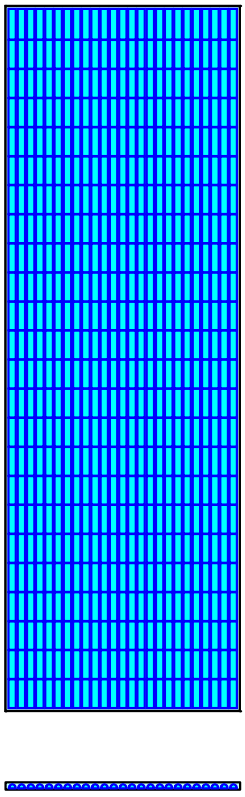
24 Chambers/Row x 10.25' Long +0.75' Row Adjustment = 246.75' Row Length +12.0" End Stone x 2 = 248.75' Base Length
25 Rows x 33.0" Wide + 6.0" Spacing x 24 + 12.0" Side Stone x 2 = 82.75' Base Width
6.0" Stone Base + 18.5" Chamber Height + 6.0" Stone Cover = 2.54' Field Height

600 Chambers x 27.2 cf +0.75' Row Adjustment x 2.65 sf x 25 Rows = 16,341.0 cf Chamber Storage

52,317.8 cf Field - 16,341.0 cf Chambers = 35,976.8 cf Stone x 40.0% Voids = 14,390.7 cf Stone Storage

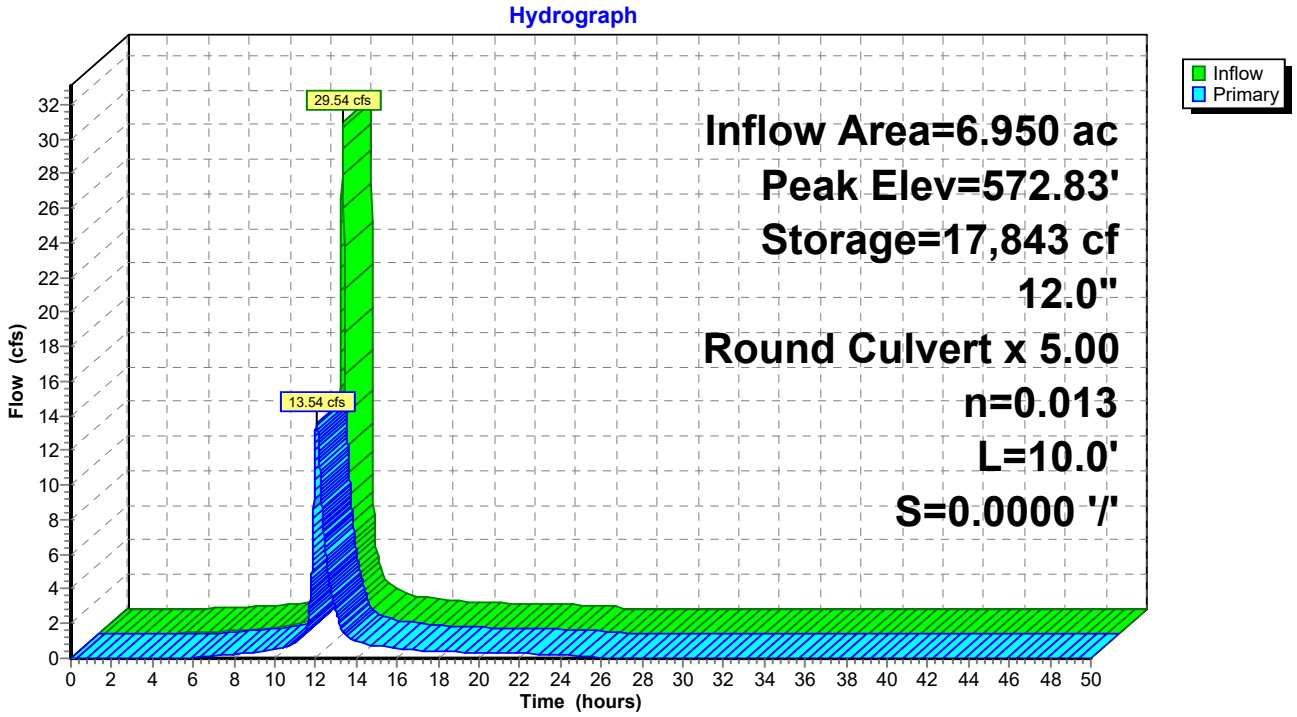
Chamber Storage + Stone Storage = 30,731.7 cf = 0.706 af
Overall Storage Efficiency = 58.7%
Overall System Size = 248.75' x 82.75' x 2.54'

600 Chambers
1,937.7 cy Field
1,332.5 cy Stone



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.01 hrs, 5001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Proposed Site Runoff Area=1.120 ac 89.29% Impervious Runoff Depth=3.27"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=5.97 cfs 0.305 af

Subcatchment2S: Proposed Site Runoff Area=0.530 ac 84.91% Impervious Runoff Depth=3.17"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=2.78 cfs 0.140 af

Subcatchment3S: Proposed Site Runoff Area=0.490 ac 93.88% Impervious Runoff Depth=3.38"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=97 Runoff=2.65 cfs 0.138 af

Subcatchment4S: Proposed Site Runoff Area=0.890 ac 87.64% Impervious Runoff Depth=3.27"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=4.75 cfs 0.243 af

Subcatchment5S: Proposed Site Runoff Area=0.710 ac 87.32% Impervious Runoff Depth=3.27"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=3.79 cfs 0.194 af

Subcatchment6S: Proposed Site Runoff Area=0.670 ac 85.07% Impervious Runoff Depth=3.17"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=3.52 cfs 0.177 af

Subcatchment7S: Proposed Site Runoff Area=0.970 ac 77.32% Impervious Runoff Depth=3.06"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=5.00 cfs 0.247 af

Subcatchment8S: Proposed Site Runoff Area=1.570 ac 80.25% Impervious Runoff Depth=3.06"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=8.09 cfs 0.400 af

Pond 1P: Detention Storage & Outlet Peak Elev=573.09' Storage=21,706 cf Inflow=36.53 cfs 1.844 af
12.0" Round Culvert x 5.00 n=0.013 L=10.0' S=0.0000 '/' Outflow=18.03 cfs 1.841 af

Total Runoff Area = 6.950 ac Runoff Volume = 1.844 af Average Runoff Depth = 3.18"
15.25% Pervious = 1.060 ac 84.75% Impervious = 5.890 ac

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Proposed Site

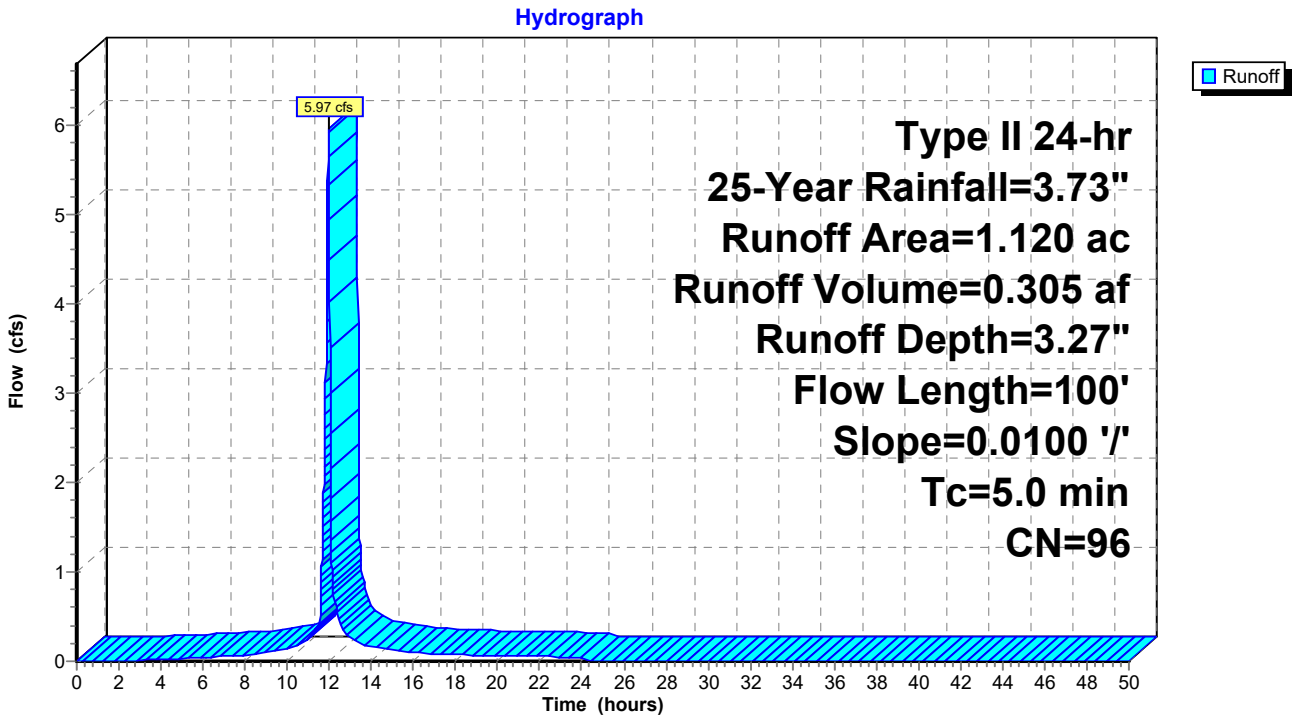
Runoff = 5.97 cfs @ 11.96 hrs, Volume= 0.305 af, Depth= 3.27"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.120	80	>75% Grass cover, Good, HSG D
*	1.000	98	Impervious, HSG D
	1.120	96	Weighted Average
	0.120		10.71% Pervious Area
	1.000		89.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 2S: Proposed Site

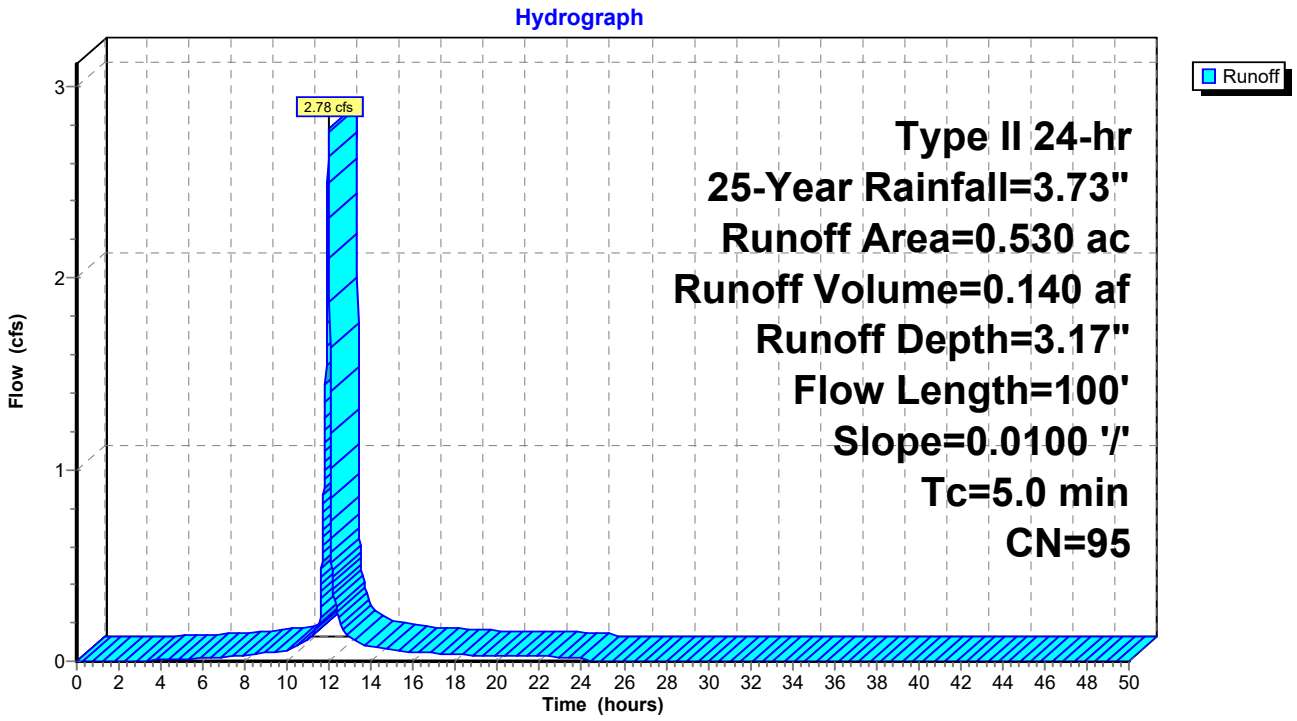
Runoff = 2.78 cfs @ 11.96 hrs, Volume= 0.140 af, Depth= 3.17"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.080	80	>75% Grass cover, Good, HSG D
*	0.450	98	Impervious, HSG D
	0.530	95	Weighted Average
	0.080		15.09% Pervious Area
	0.450		84.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 3S: Proposed Site

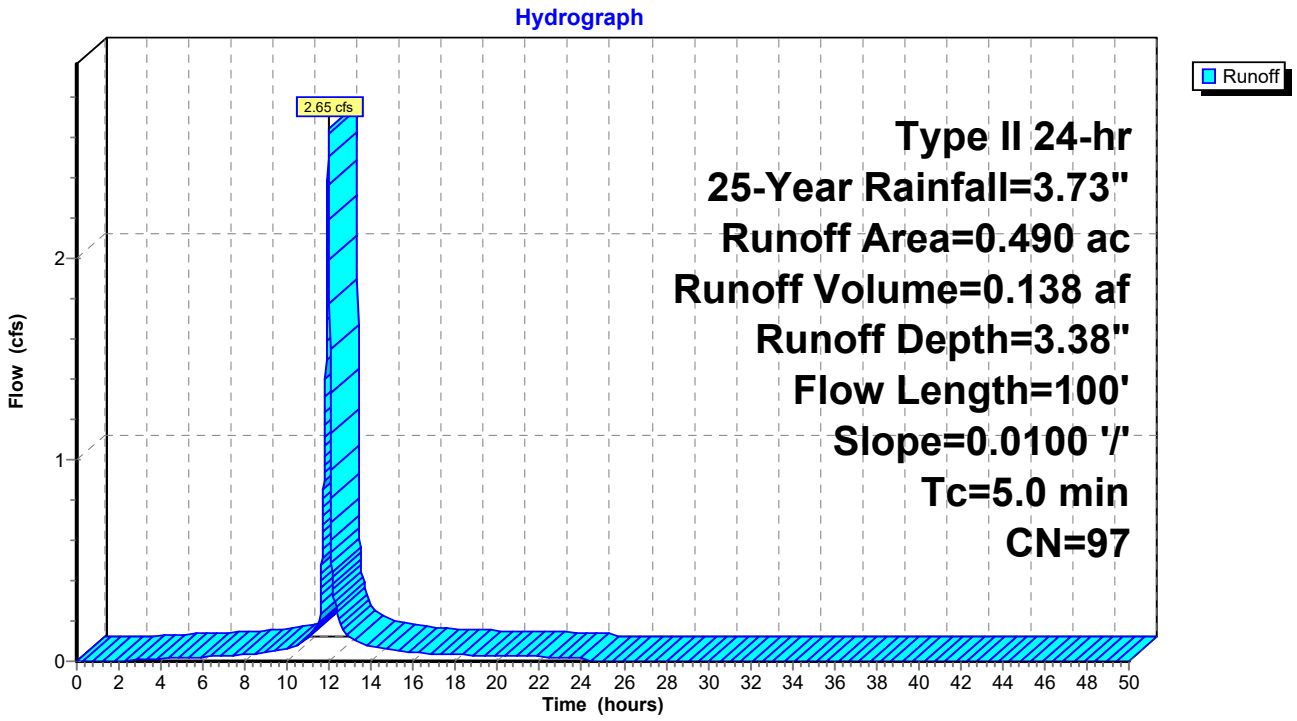
Runoff = 2.65 cfs @ 11.96 hrs, Volume= 0.138 af, Depth= 3.38"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.030	80	>75% Grass cover, Good, HSG D
*	0.460	98	Impervious, HSG D
	0.490	97	Weighted Average
	0.030		6.12% Pervious Area
	0.460		93.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 3S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 4S: Proposed Site

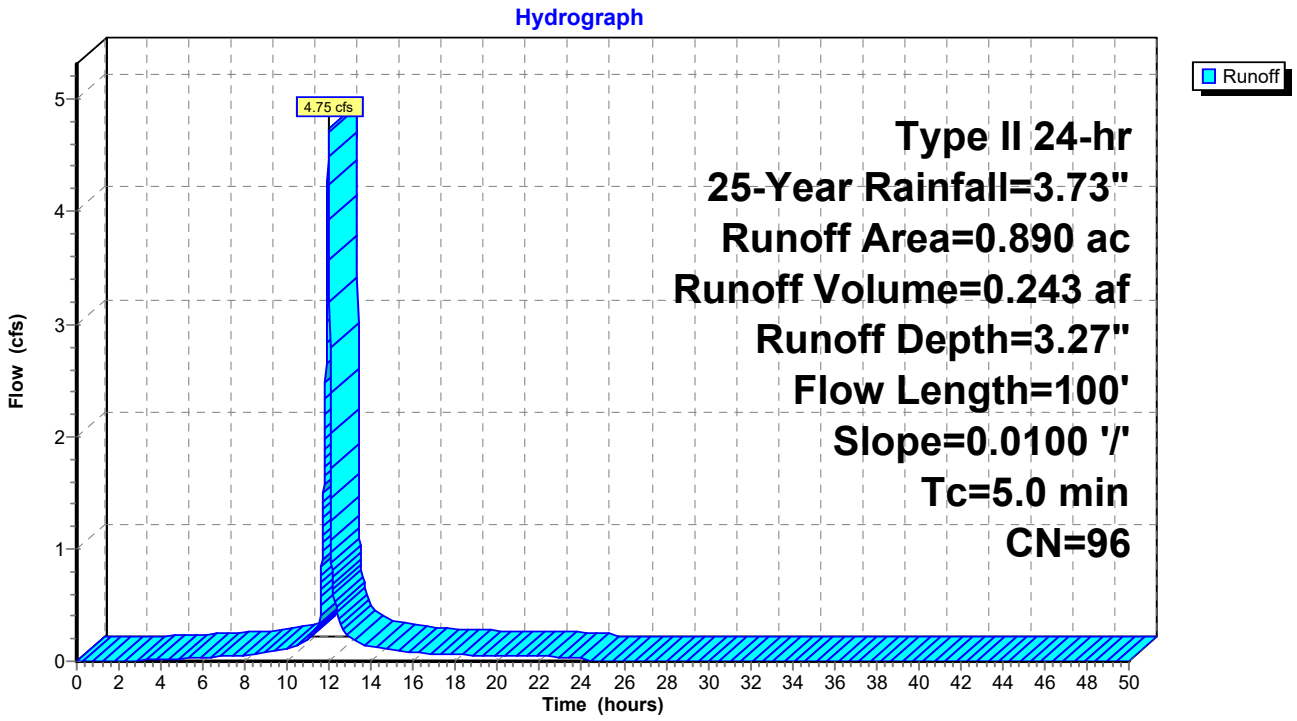
Runoff = 4.75 cfs @ 11.96 hrs, Volume= 0.243 af, Depth= 3.27"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.110	80	>75% Grass cover, Good, HSG D
*	0.780	98	Impervious, HSG D
	0.890	96	Weighted Average
	0.110		12.36% Pervious Area
	0.780		87.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 4S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 5S: Proposed Site

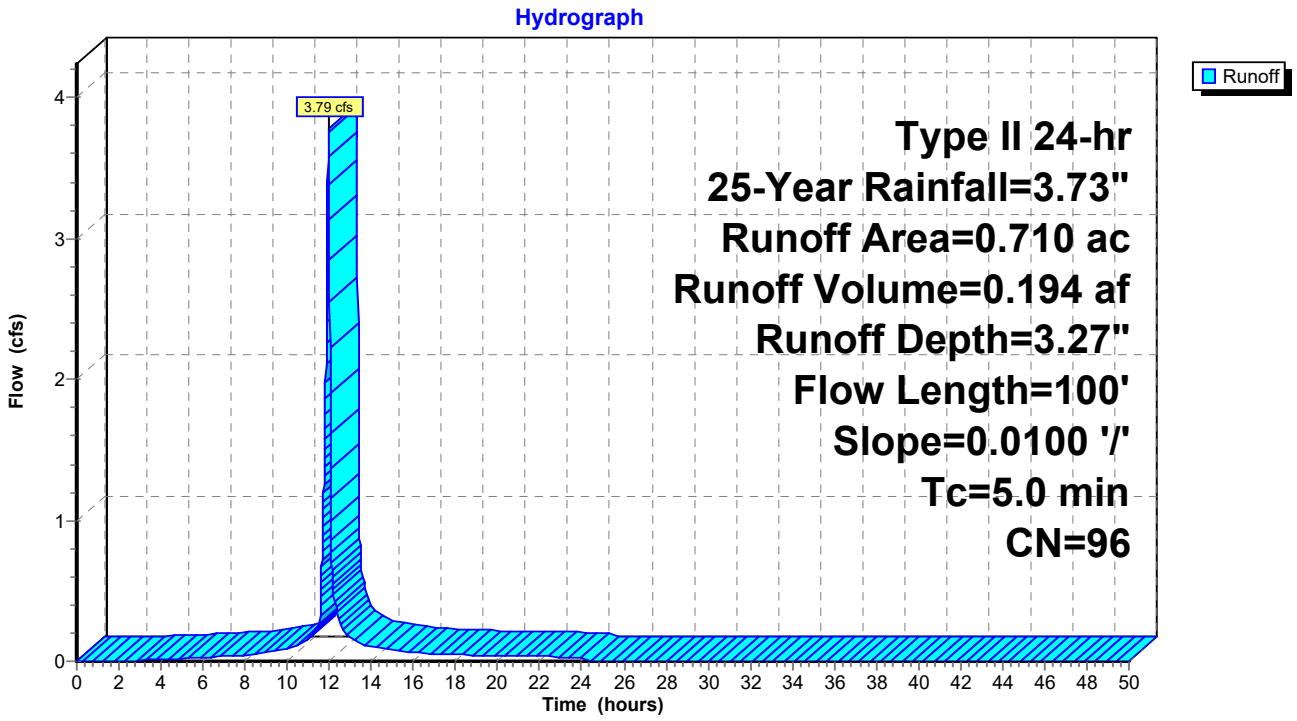
Runoff = 3.79 cfs @ 11.96 hrs, Volume= 0.194 af, Depth= 3.27"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.090	80	>75% Grass cover, Good, HSG D
*	0.620	98	Impervious, HSG D
	0.710	96	Weighted Average
	0.090		12.68% Pervious Area
	0.620		87.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 5S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 6S: Proposed Site

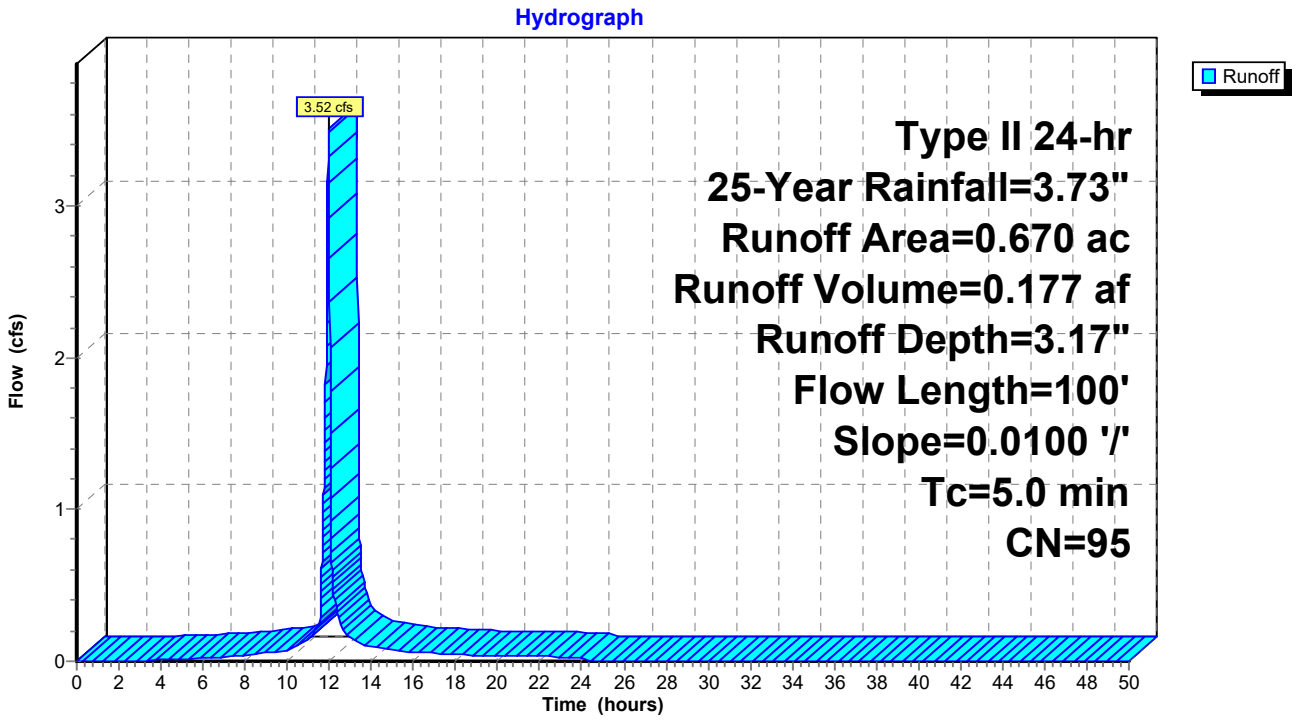
Runoff = 3.52 cfs @ 11.96 hrs, Volume= 0.177 af, Depth= 3.17"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.100	80	>75% Grass cover, Good, HSG D
*	0.570	98	Impervious, HSG D
	0.670	95	Weighted Average
	0.100		14.93% Pervious Area
	0.570		85.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 6S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 7S: Proposed Site

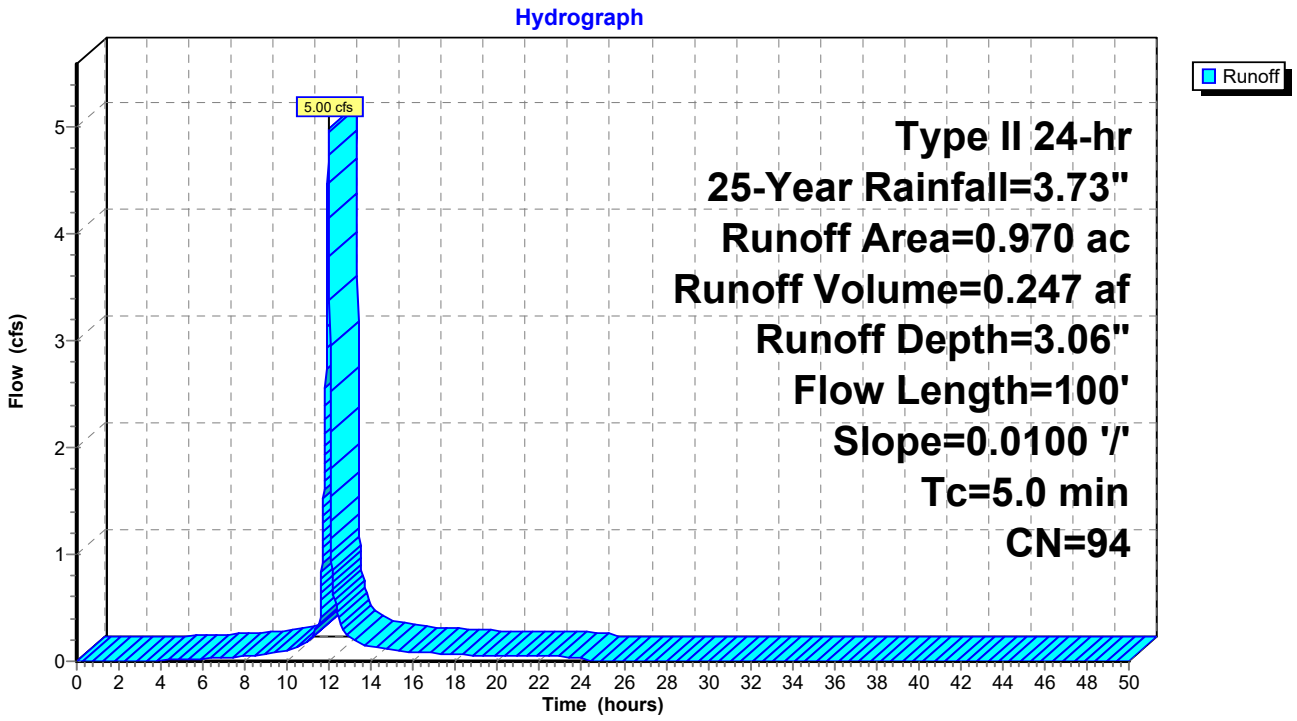
Runoff = 5.00 cfs @ 11.96 hrs, Volume= 0.247 af, Depth= 3.06"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.220	80	>75% Grass cover, Good, HSG D
*	0.750	98	Impervious, HSG D
	0.970	94	Weighted Average
	0.220		22.68% Pervious Area
	0.750		77.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 7S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 8S: Proposed Site

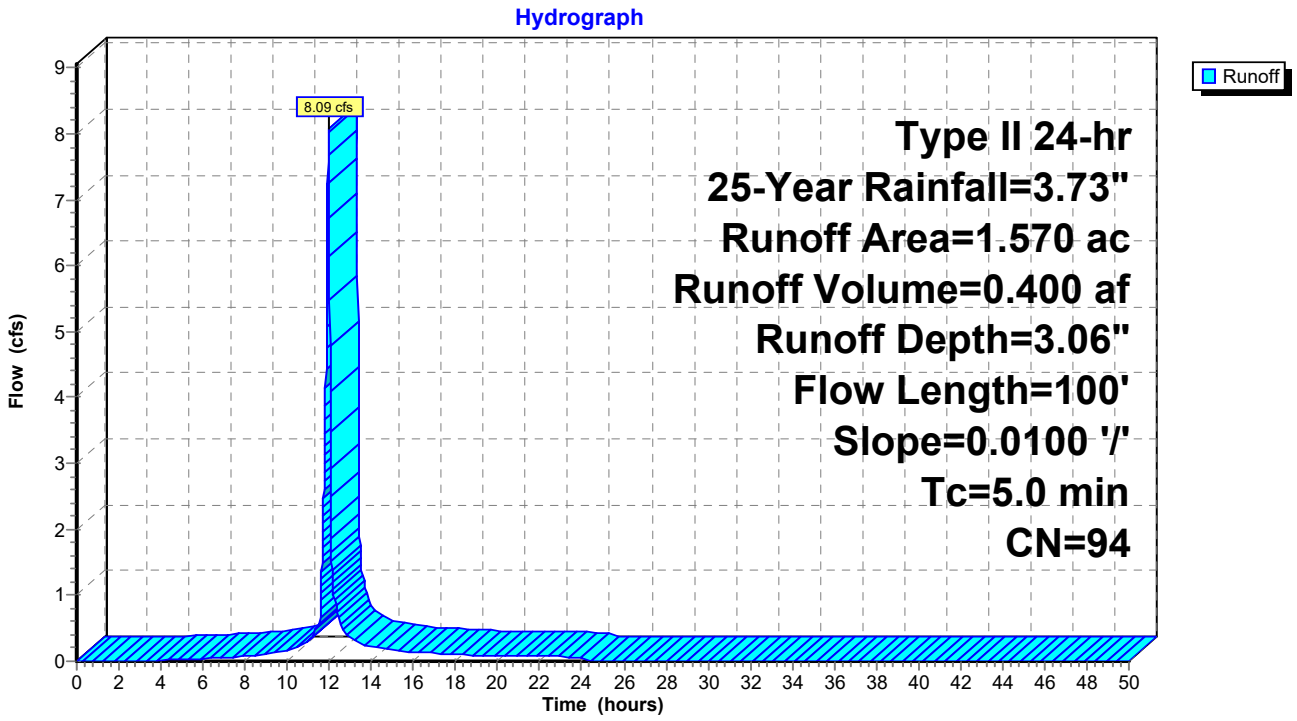
Runoff = 8.09 cfs @ 11.96 hrs, Volume= 0.400 af, Depth= 3.06"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.310	80	>75% Grass cover, Good, HSG D
*	1.260	98	Impervious, HSG D
	1.570	94	Weighted Average
	0.310		19.75% Pervious Area
	1.260		80.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 8S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Pond 1P: Detention Storage & Outlet

Inflow Area = 6.950 ac, 84.75% Impervious, Inflow Depth = 3.18" for 25-Year event
Inflow = 36.53 cfs @ 11.96 hrs, Volume= 1.844 af
Outflow = 18.03 cfs @ 12.04 hrs, Volume= 1.841 af, Atten= 51%, Lag= 5.1 min
Primary = 18.03 cfs @ 12.04 hrs, Volume= 1.841 af
Routed to nonexistent node 1L

Routing by Dyn-Stor-Ind method, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Peak Elev= 573.09' @ 12.04 hrs Surf.Area= 20,584 sf Storage= 21,706 cf

Plug-Flow detention time= 39.0 min calculated for 1.841 af (100% of inflow)
Center-of-Mass det. time= 38.1 min (808.4 - 770.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	571.50'	14,391 cf	**82.75'W x 248.75'L x 2.54'H Field A** 52,318 cf Overall - 16,341 cf Embedded = 35,977 cf x 40.0% Voids
#2A	572.00'	16,341 cf	**Cultec R-150XLHD** x 600 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap Row Length Adjustment= +0.75' x 2.65 sf x 25 rows
		30,732 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	571.50'	**12.0" Round Outlet Pipe X 5.00** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 571.50' / 571.50' S= 0.0000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=18.02 cfs @ 12.04 hrs HW=573.09' (Free Discharge)
↑**1=Outlet Pipe** (Barrel Controls 18.02 cfs @ 4.59 fps)

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet - Chamber Wizard Field A

Chamber Model = Cultec R-150XLHD (Cultec Recharger®150XLHD)
Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
Row Length Adjustment= +0.75' x 2.65 sf x 25 rows

33.0" Wide + 6.0" Spacing = 39.0" C-C Row Spacing

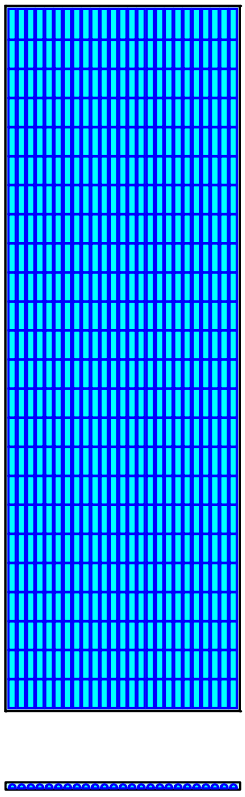
24 Chambers/Row x 10.25' Long +0.75' Row Adjustment = 246.75' Row Length +12.0" End Stone x 2 = 248.75' Base Length
25 Rows x 33.0" Wide + 6.0" Spacing x 24 + 12.0" Side Stone x 2 = 82.75' Base Width
6.0" Stone Base + 18.5" Chamber Height + 6.0" Stone Cover = 2.54' Field Height

600 Chambers x 27.2 cf +0.75' Row Adjustment x 2.65 sf x 25 Rows = 16,341.0 cf Chamber Storage

52,317.8 cf Field - 16,341.0 cf Chambers = 35,976.8 cf Stone x 40.0% Voids = 14,390.7 cf Stone Storage

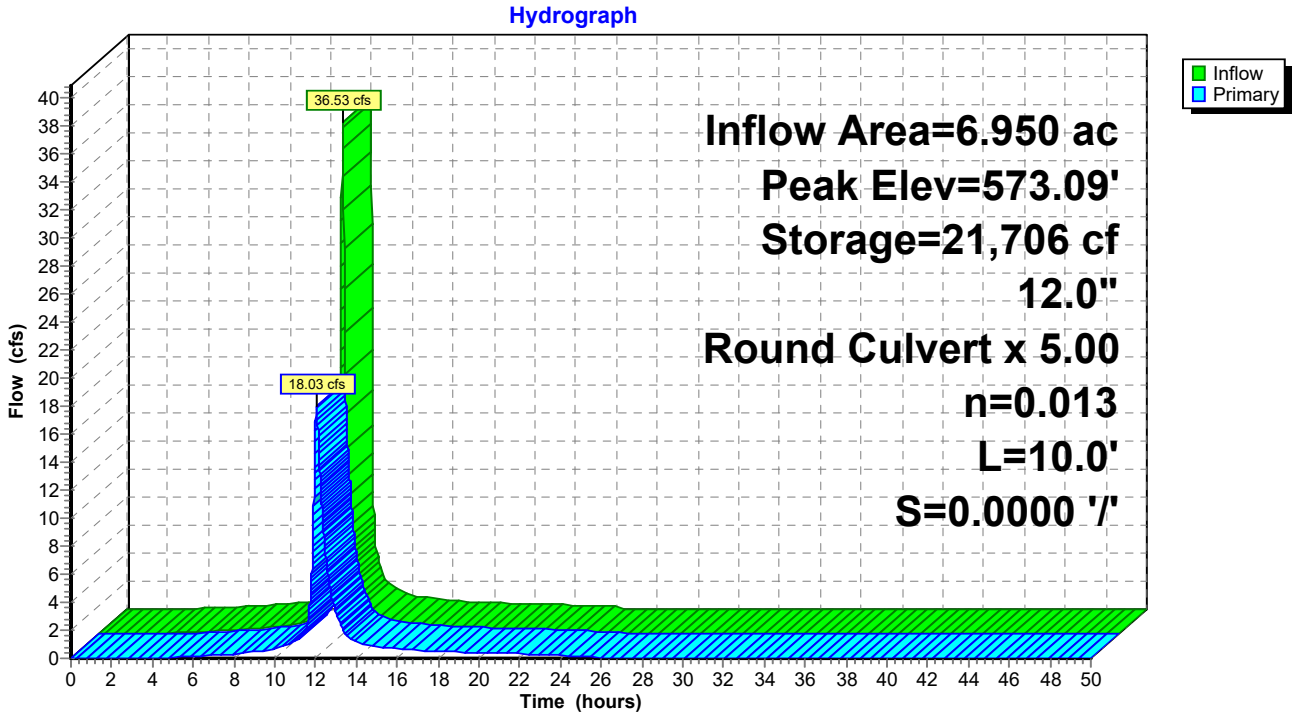
Chamber Storage + Stone Storage = 30,731.7 cf = 0.706 af
Overall Storage Efficiency = 58.7%
Overall System Size = 248.75' x 82.75' x 2.54'

600 Chambers
1,937.7 cy Field
1,332.5 cy Stone



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.01 hrs, 5001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Proposed Site Runoff Area=1.120 ac 89.29% Impervious Runoff Depth=4.56"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=8.16 cfs 0.426 af

Subcatchment2S: Proposed Site Runoff Area=0.530 ac 84.91% Impervious Runoff Depth=4.45"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=3.82 cfs 0.197 af

Subcatchment3S: Proposed Site Runoff Area=0.490 ac 93.88% Impervious Runoff Depth=4.68"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=97 Runoff=3.60 cfs 0.191 af

Subcatchment4S: Proposed Site Runoff Area=0.890 ac 87.64% Impervious Runoff Depth=4.56"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=6.49 cfs 0.338 af

Subcatchment5S: Proposed Site Runoff Area=0.710 ac 87.32% Impervious Runoff Depth=4.56"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=5.17 cfs 0.270 af

Subcatchment6S: Proposed Site Runoff Area=0.670 ac 85.07% Impervious Runoff Depth=4.45"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=4.83 cfs 0.248 af

Subcatchment7S: Proposed Site Runoff Area=0.970 ac 77.32% Impervious Runoff Depth=4.34"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=6.92 cfs 0.351 af

Subcatchment8S: Proposed Site Runoff Area=1.570 ac 80.25% Impervious Runoff Depth=4.34"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=11.20 cfs 0.567 af

Pond 1P: Detention Storage & Outlet Peak Elev=573.83' Storage=29,010 cf Inflow=50.20 cfs 2.588 af
12.0" Round Culvert x 5.00 n=0.013 L=10.0' S=0.0000 '/' Outflow=25.60 cfs 2.585 af

Total Runoff Area = 6.950 ac Runoff Volume = 2.588 af Average Runoff Depth = 4.47"
15.25% Pervious = 1.060 ac 84.75% Impervious = 5.890 ac

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Proposed Site

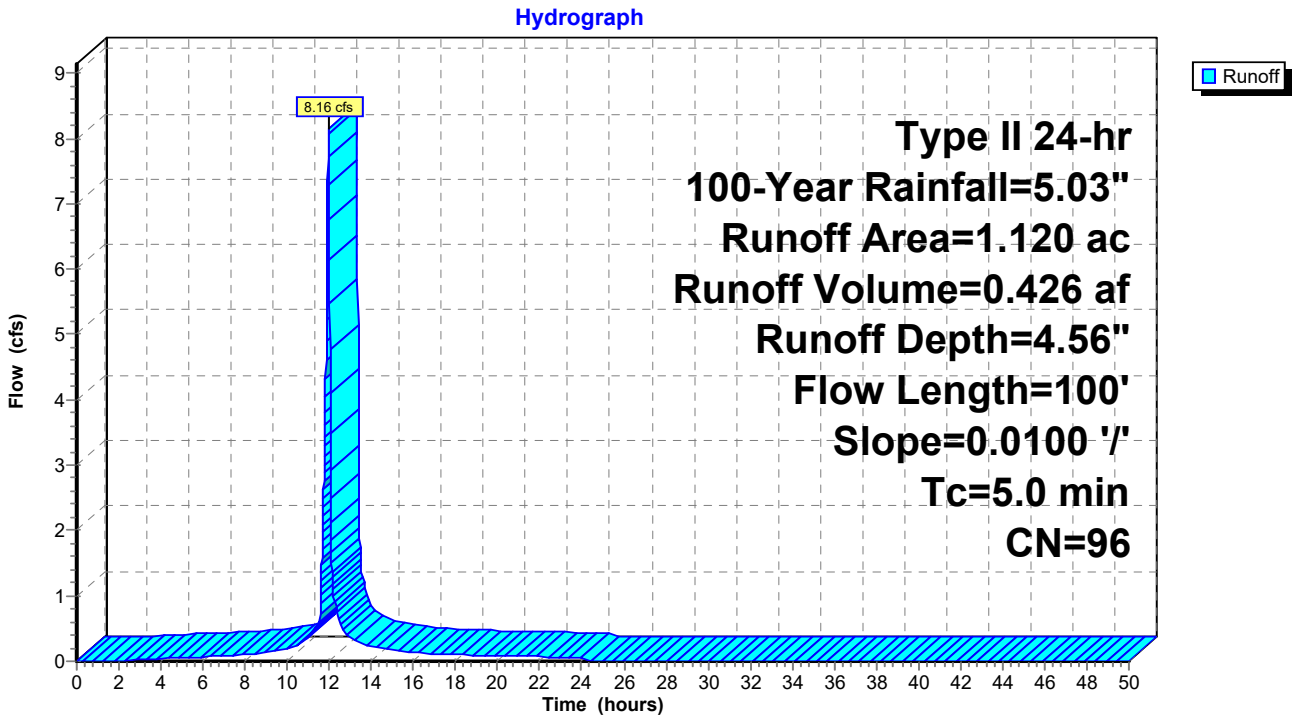
Runoff = 8.16 cfs @ 11.96 hrs, Volume= 0.426 af, Depth= 4.56"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.120	80	>75% Grass cover, Good, HSG D
*	1.000	98	Impervious, HSG D
	1.120	96	Weighted Average
	0.120		10.71% Pervious Area
	1.000		89.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 2S: Proposed Site

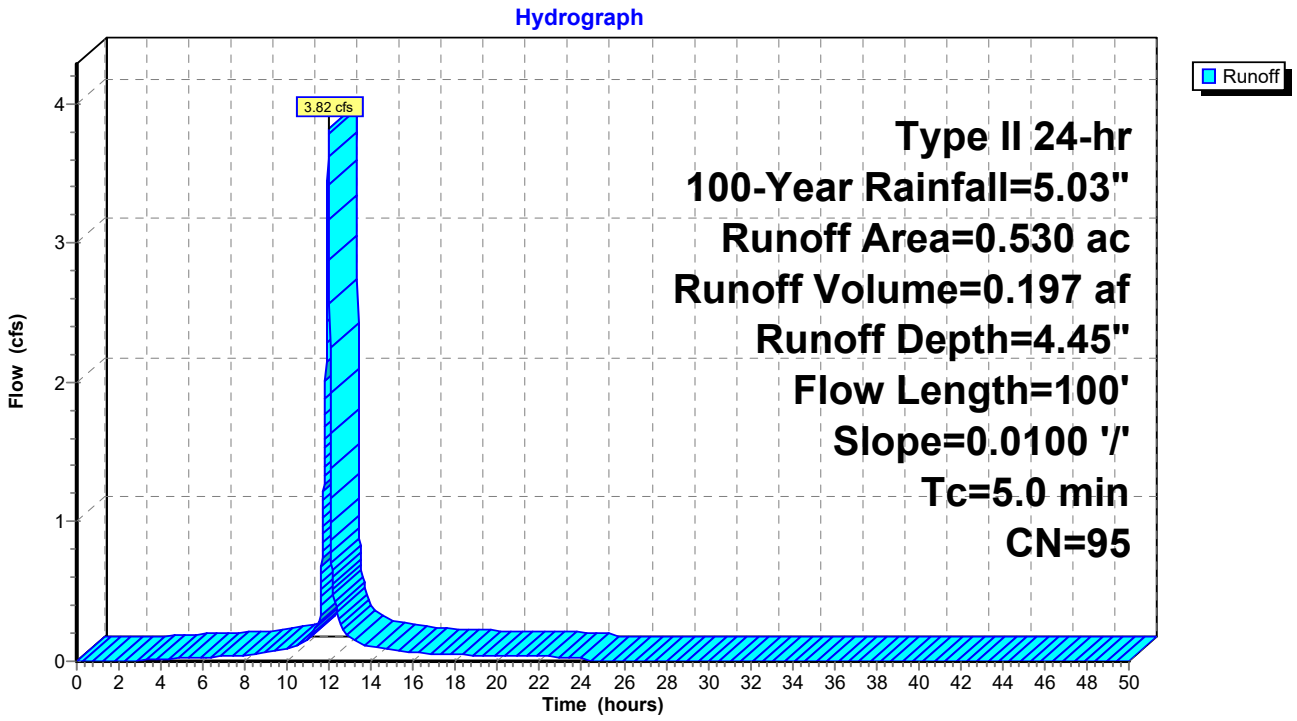
Runoff = 3.82 cfs @ 11.96 hrs, Volume= 0.197 af, Depth= 4.45"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.080	80	>75% Grass cover, Good, HSG D
*	0.450	98	Impervious, HSG D
	0.530	95	Weighted Average
	0.080		15.09% Pervious Area
	0.450		84.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 3S: Proposed Site

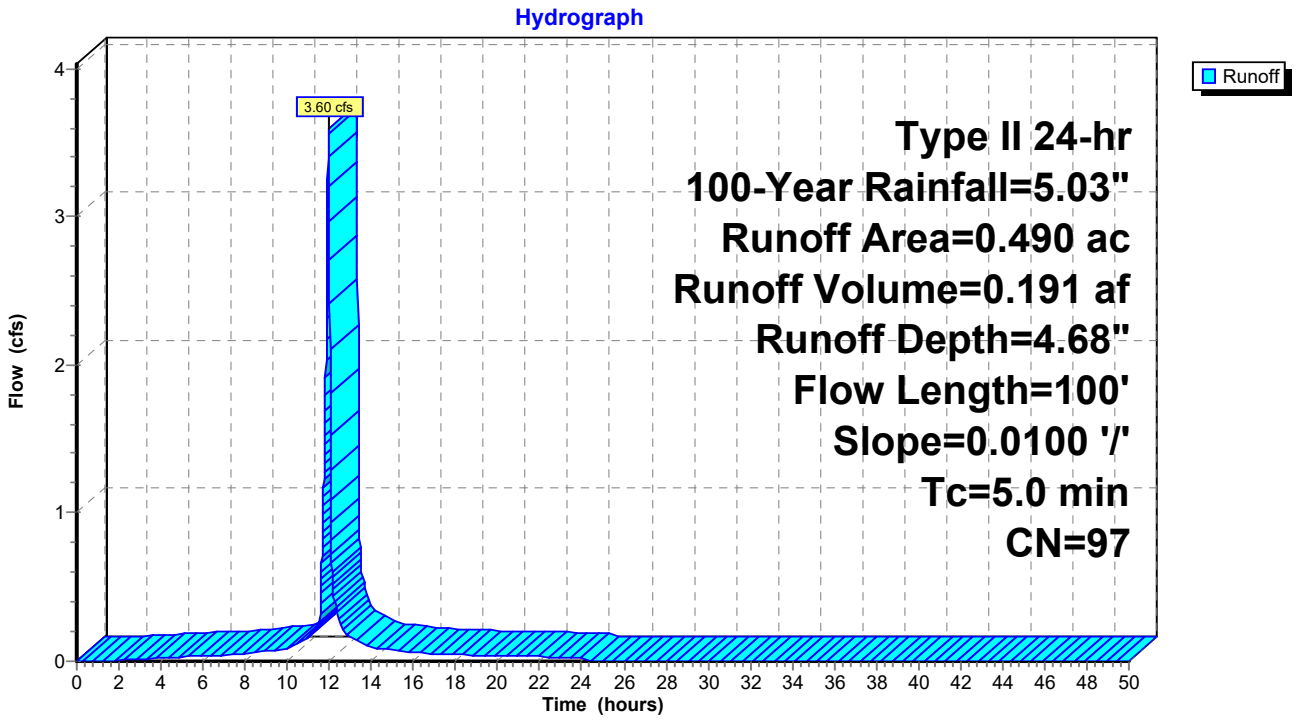
Runoff = 3.60 cfs @ 11.96 hrs, Volume= 0.191 af, Depth= 4.68"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.030	80	>75% Grass cover, Good, HSG D
*	0.460	98	Impervious, HSG D
	0.490	97	Weighted Average
	0.030		6.12% Pervious Area
	0.460		93.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 3S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 4S: Proposed Site

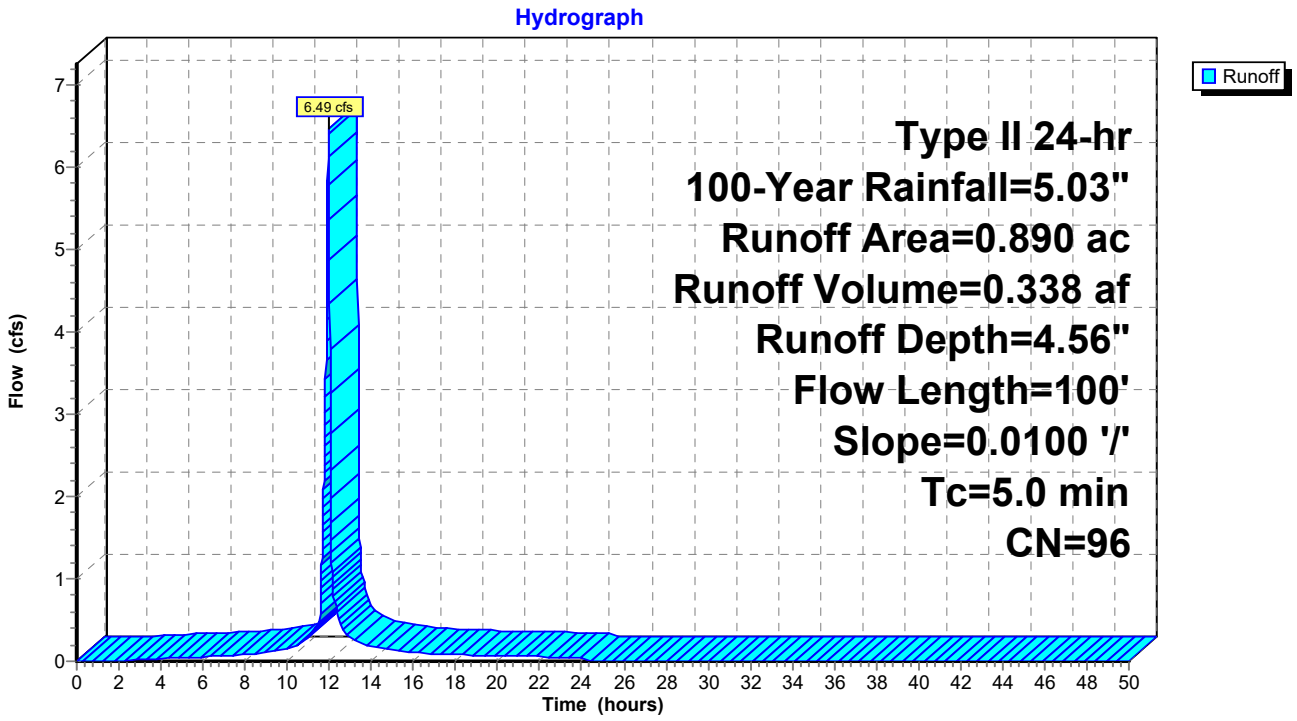
Runoff = 6.49 cfs @ 11.96 hrs, Volume= 0.338 af, Depth= 4.56"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.110	80	>75% Grass cover, Good, HSG D
*	0.780	98	Impervious, HSG D
	0.890	96	Weighted Average
	0.110		12.36% Pervious Area
	0.780		87.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 4S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 5S: Proposed Site

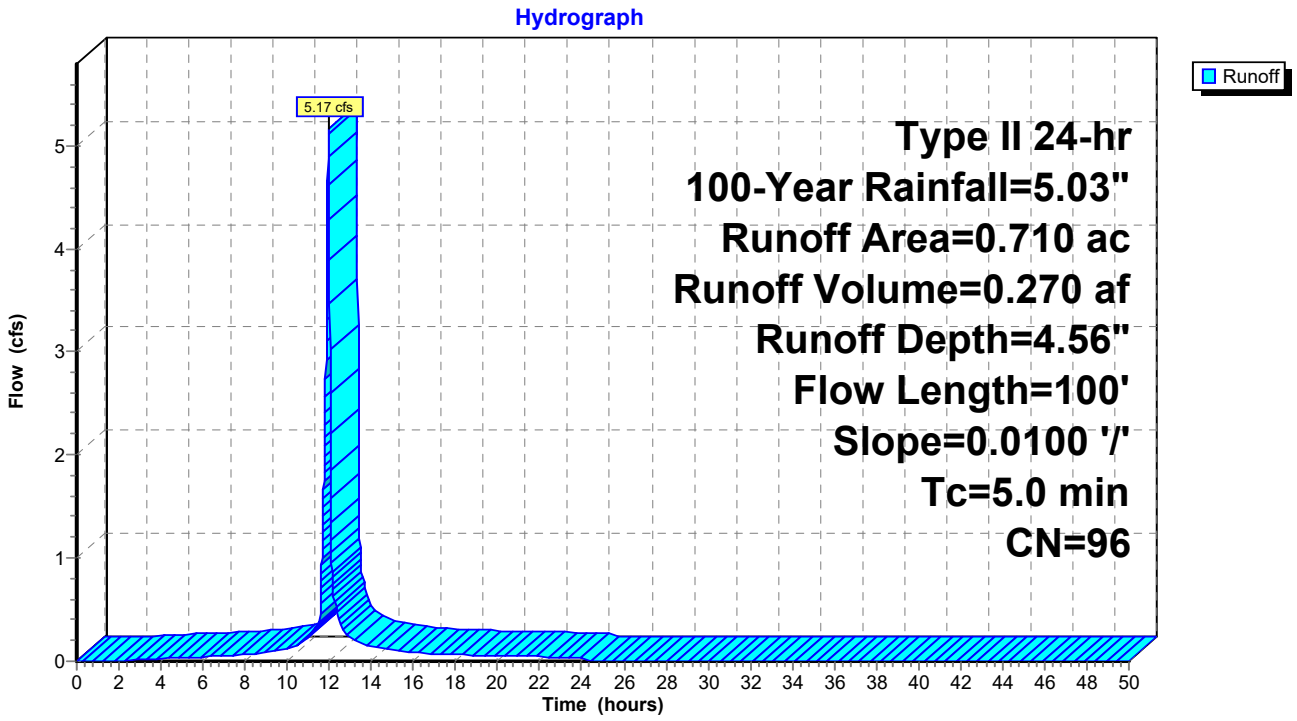
Runoff = 5.17 cfs @ 11.96 hrs, Volume= 0.270 af, Depth= 4.56"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.090	80	>75% Grass cover, Good, HSG D
*	0.620	98	Impervious, HSG D
	0.710	96	Weighted Average
	0.090		12.68% Pervious Area
	0.620		87.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 5S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 6S: Proposed Site

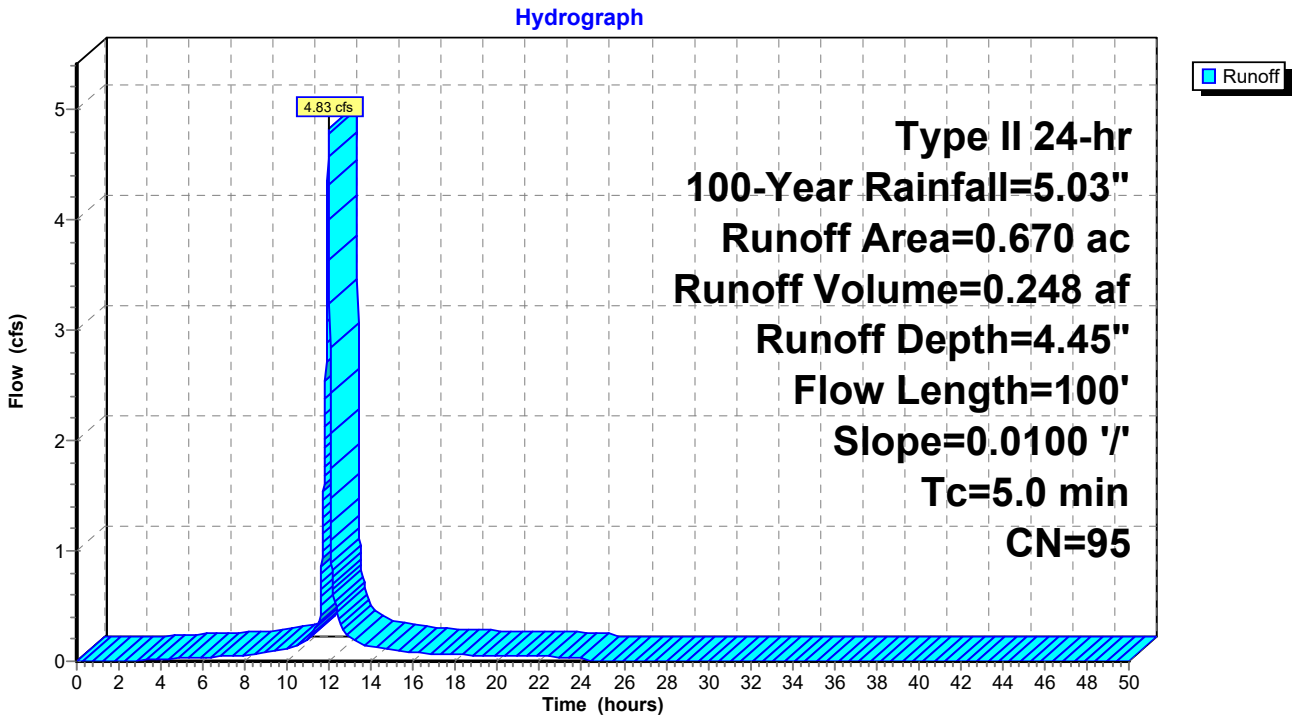
Runoff = 4.83 cfs @ 11.96 hrs, Volume= 0.248 af, Depth= 4.45"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.100	80	>75% Grass cover, Good, HSG D
*	0.570	98	Impervious, HSG D
	0.670	95	Weighted Average
	0.100		14.93% Pervious Area
	0.570		85.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 6S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 7S: Proposed Site

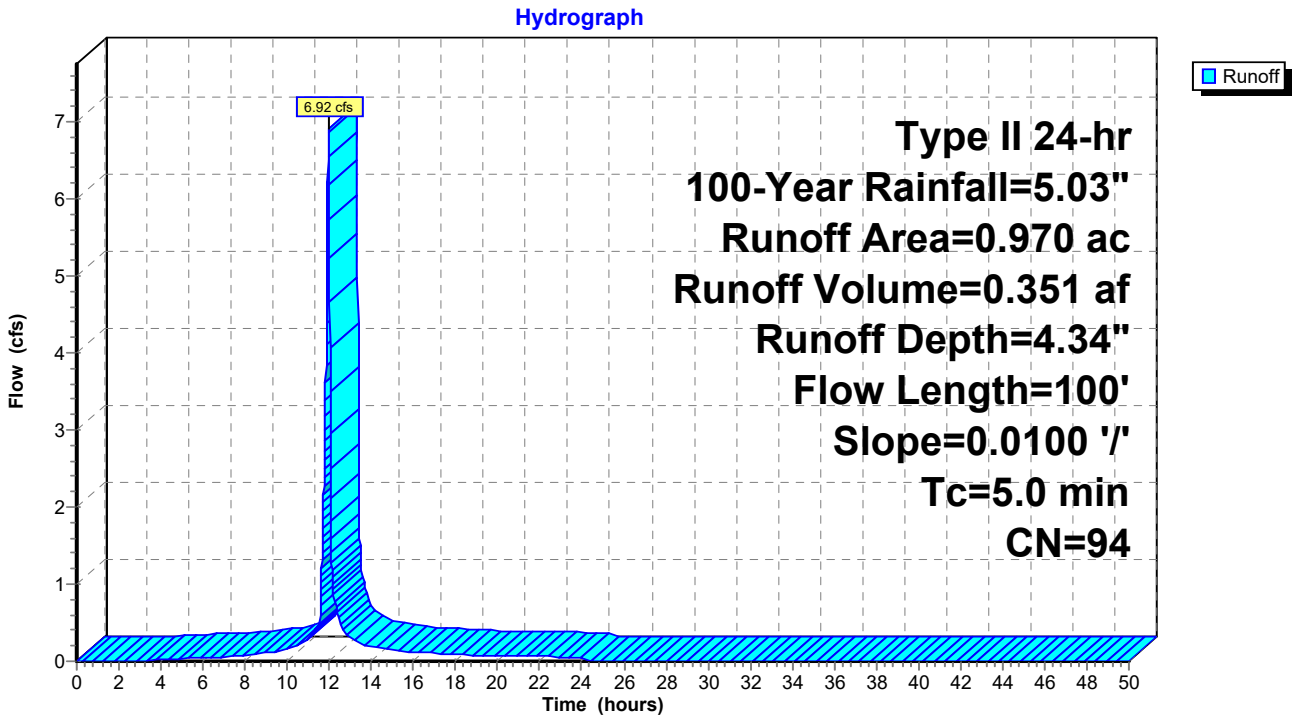
Runoff = 6.92 cfs @ 11.96 hrs, Volume= 0.351 af, Depth= 4.34"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.220	80	>75% Grass cover, Good, HSG D
*	0.750	98	Impervious, HSG D
	0.970	94	Weighted Average
	0.220		22.68% Pervious Area
	0.750		77.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 7S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 8S: Proposed Site

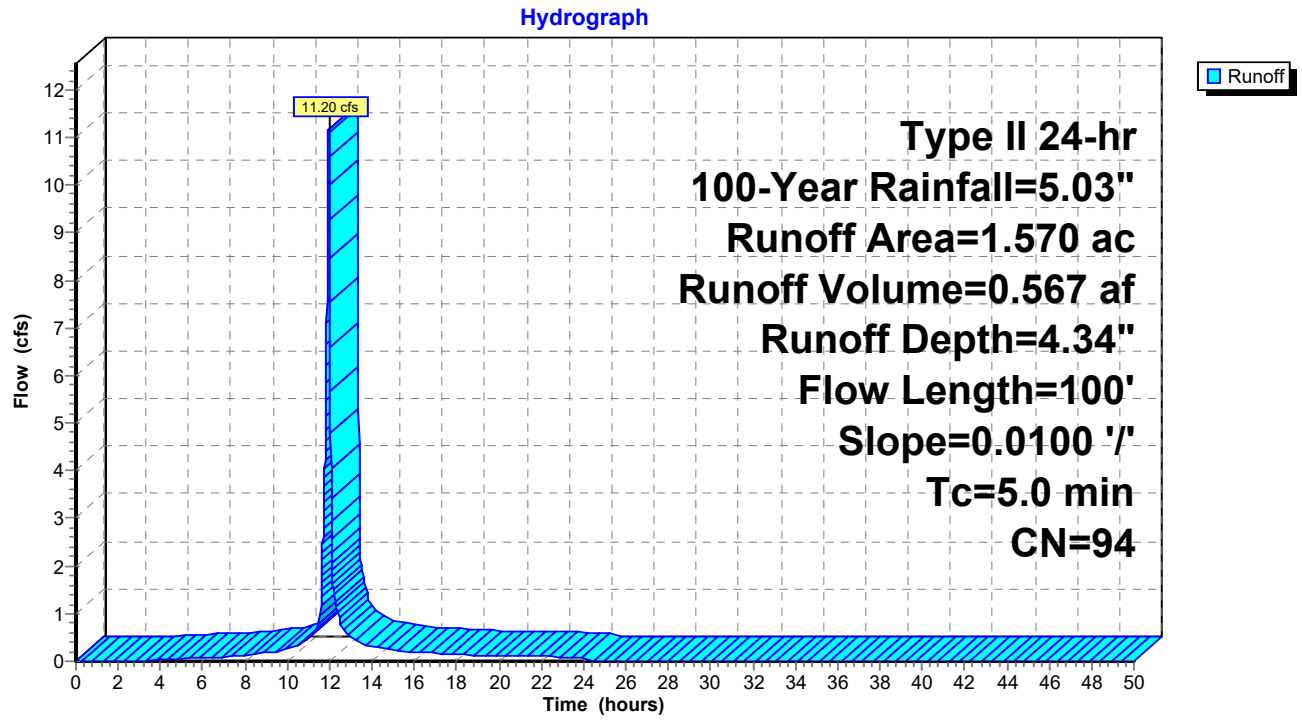
Runoff = 11.20 cfs @ 11.96 hrs, Volume= 0.567 af, Depth= 4.34"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.310	80	>75% Grass cover, Good, HSG D
*	1.260	98	Impervious, HSG D
	1.570	94	Weighted Average
	0.310		19.75% Pervious Area
	1.260		80.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 8S: Proposed Site



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Pond 1P: Detention Storage & Outlet

Inflow Area = 6.950 ac, 84.75% Impervious, Inflow Depth = 4.47" for 100-Year event
Inflow = 50.20 cfs @ 11.96 hrs, Volume= 2.588 af
Outflow = 25.60 cfs @ 12.04 hrs, Volume= 2.585 af, Atten= 49%, Lag= 5.0 min
Primary = 25.60 cfs @ 12.04 hrs, Volume= 2.585 af
Routed to nonexistent node 1L

Routing by Dyn-Stor-Ind method, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Peak Elev= 573.83' @ 12.04 hrs Surf.Area= 20,584 sf Storage= 29,010 cf

Plug-Flow detention time= 34.5 min calculated for 2.585 af (100% of inflow)
Center-of-Mass det. time= 33.7 min (795.7 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	571.50'	14,391 cf	**82.75'W x 248.75'L x 2.54'H Field A** 52,318 cf Overall - 16,341 cf Embedded = 35,977 cf x 40.0% Voids
#2A	572.00'	16,341 cf	**Cultec R-150XLHD** x 600 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap Row Length Adjustment= +0.75' x 2.65 sf x 25 rows
		30,732 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	571.50'	**12.0" Round Outlet Pipe X 5.00** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 571.50' / 571.50' S= 0.0000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=25.59 cfs @ 12.04 hrs HW=573.83' (Free Discharge)
↑—**1=Outlet Pipe** (Inlet Controls 25.59 cfs @ 6.52 fps)

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet - Chamber Wizard Field A

Chamber Model = Cultec R-150XLHD (Cultec Recharger®150XLHD)
Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
Row Length Adjustment= +0.75' x 2.65 sf x 25 rows

33.0" Wide + 6.0" Spacing = 39.0" C-C Row Spacing

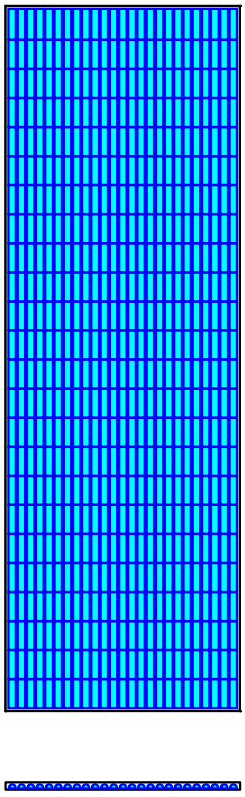
24 Chambers/Row x 10.25' Long +0.75' Row Adjustment = 246.75' Row Length +12.0" End Stone x 2 = 248.75' Base Length
25 Rows x 33.0" Wide + 6.0" Spacing x 24 + 12.0" Side Stone x 2 = 82.75' Base Width
6.0" Stone Base + 18.5" Chamber Height + 6.0" Stone Cover = 2.54' Field Height

600 Chambers x 27.2 cf +0.75' Row Adjustment x 2.65 sf x 25 Rows = 16,341.0 cf Chamber Storage

52,317.8 cf Field - 16,341.0 cf Chambers = 35,976.8 cf Stone x 40.0% Voids = 14,390.7 cf Stone Storage

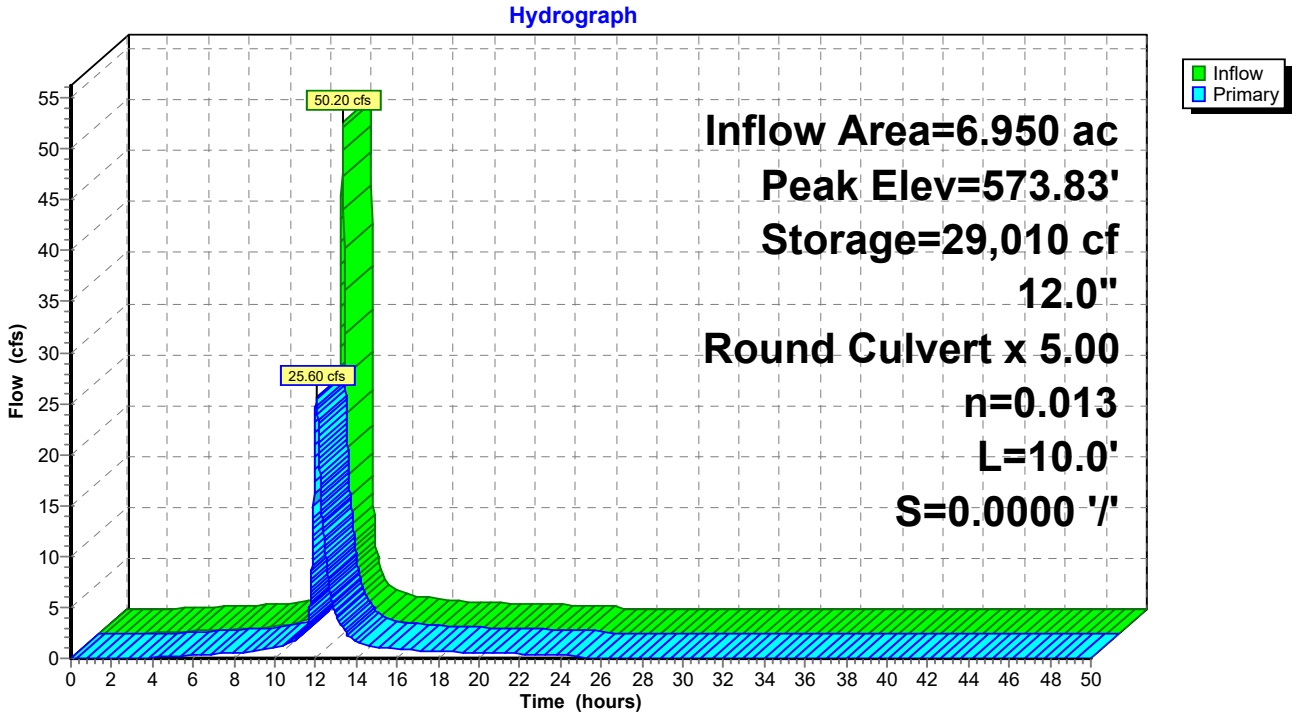
Chamber Storage + Stone Storage = 30,731.7 cf = 0.706 af
Overall Storage Efficiency = 58.7%
Overall System Size = 248.75' x 82.75' x 2.54'

600 Chambers
1,937.7 cy Field
1,332.5 cy Stone



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix E

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.**

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

Table of Contents

Part 1. PERMIT COVERAGE AND LIMITATIONS 1
- A. Permit Application 1
- B. Effluent Limitations Applicable to Discharges from Construction Activities 1
- C. Post-construction Stormwater Management Practice Requirements 4
- D. Maintaining Water Quality 8
- E. Eligibility Under This General Permit 9
- F. Activities Which Are Ineligible for Coverage Under This General Permit 9

Part II. PERMIT COVERAGE 12
- A. How to Obtain Coverage 12
- B. Notice of Intent (NOI) Submittal 13
- C. Permit Authorization 13
- D. General Requirements For Owners or Operators With Permit Coverage 15
- E. Permit Coverage for Discharges Authorized Under GP-0-15-002 17
- F. Change of Owner or Operator 17

Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP) 18
- A. General SWPPP Requirements 18
- B. Required SWPPP Contents 20
- C. Required SWPPP Components by Project Type 24

Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS 24
- A. General Construction Site Inspection and Maintenance Requirements 24
- B. Contractor Maintenance Inspection Requirements 24
- C. Qualified Inspector Inspection Requirements 25

Part V. TERMINATION OF PERMIT COVERAGE 29
- A. Termination of Permit Coverage 29

Part VI. REPORTING AND RETENTION RECORDS 31
- A. Record Retention 31
- B. Addresses 31

Part VII. STANDARD PERMIT CONDITIONS 31
- A. Duty to Comply 31
- B. Continuation of the Expired General Permit 32
- C. Enforcement 32
- D. Need to Halt or Reduce Activity Not a Defense 32
- E. Duty to Mitigate 33
- F. Duty to Provide Information 33
- G. Other Information 33
- H. Signatory Requirements 33
- I. Property Rights 35
- J. Severability 35

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

K. Requirement to Obtain Coverage Under an Alternative Permit....35
L. Proper Operation and Maintenance....36
M. Inspection and Entry....36
N. Permit Actions....37
O. Definitions....37
P. Re-Opener Clause....37
Q. Penalties for Falsification of Forms and Reports....37
R. Other Permits....38
APPENDIX A – Acronyms and Definitions....39
Acronyms....39
Definitions....40
APPENDIX B – Required SWPPP Components by Project Type....48
Table 1....48
Table 2....50
APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal....52
APPENDIX D – Watersheds with Lower Disturbance Threshold....58
APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)....59
APPENDIX F – List of NYS DEC Regional Offices....65

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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*

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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:

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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*

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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*

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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:

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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,

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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:

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(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,

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

R. Other Permits

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 .

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

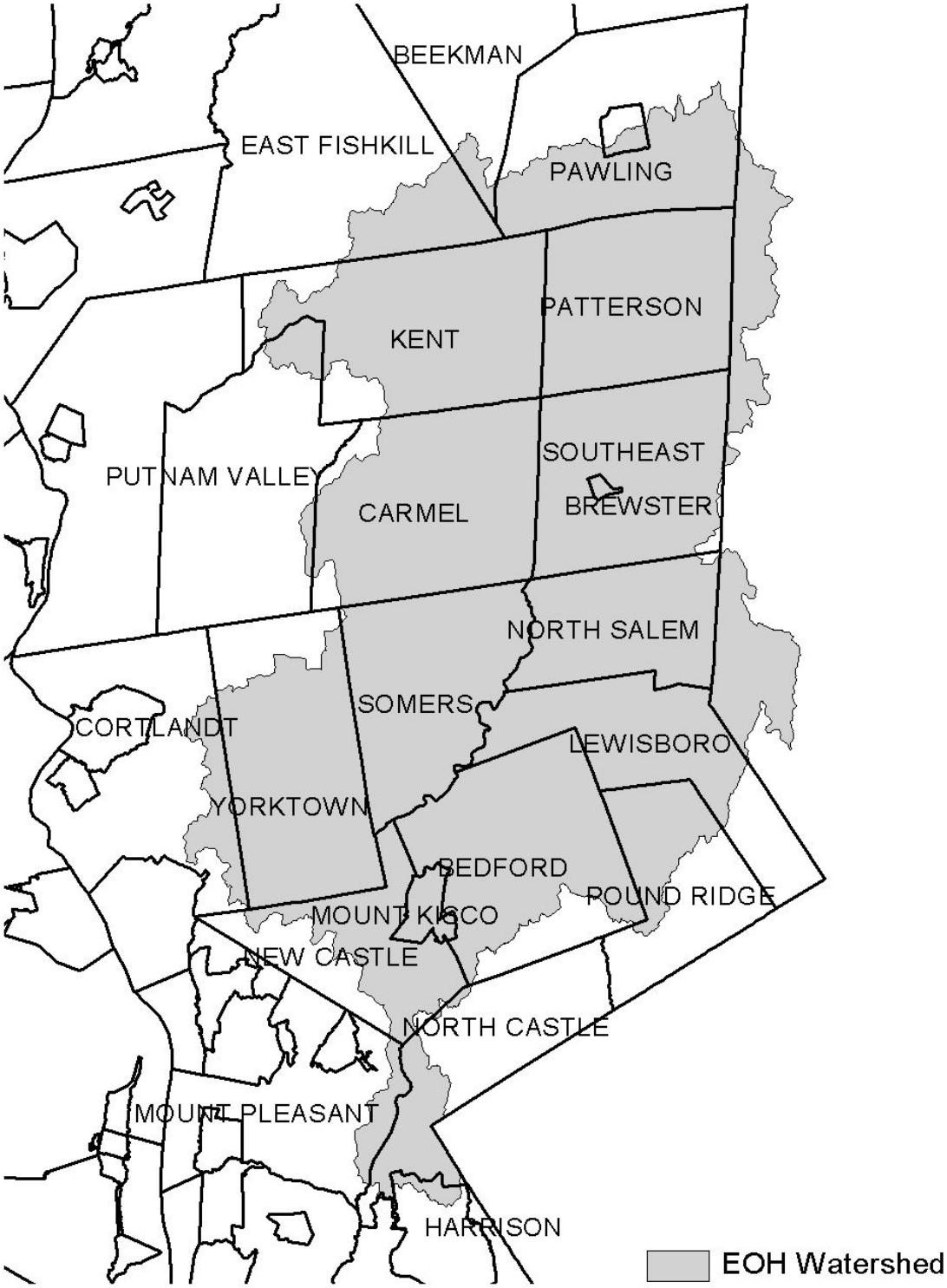
APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 1 - New York City Watershed East of the Hudson



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 2 - Onondaga Lake Watershed



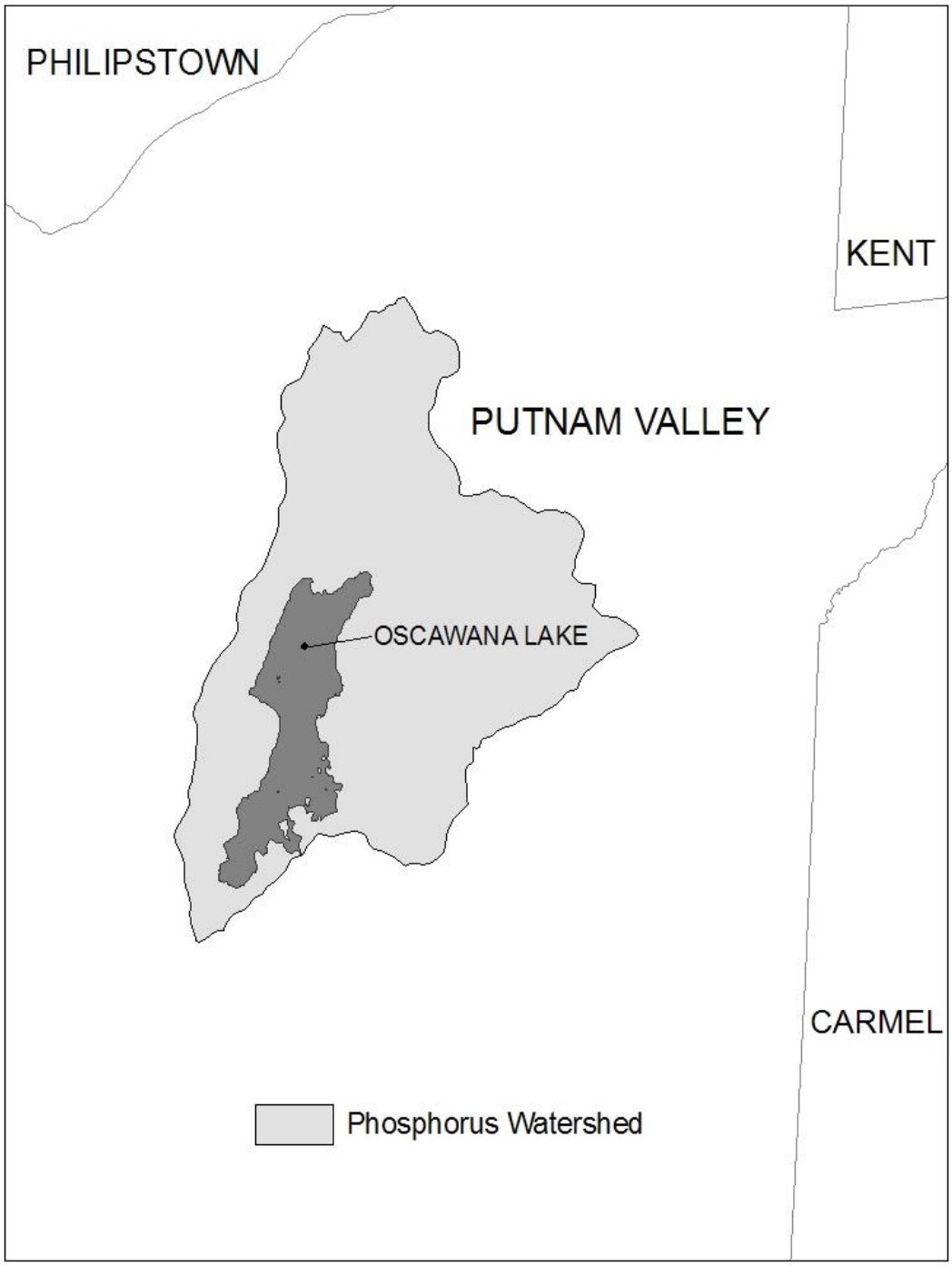
Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 3 - Greenwood Lake Watershed



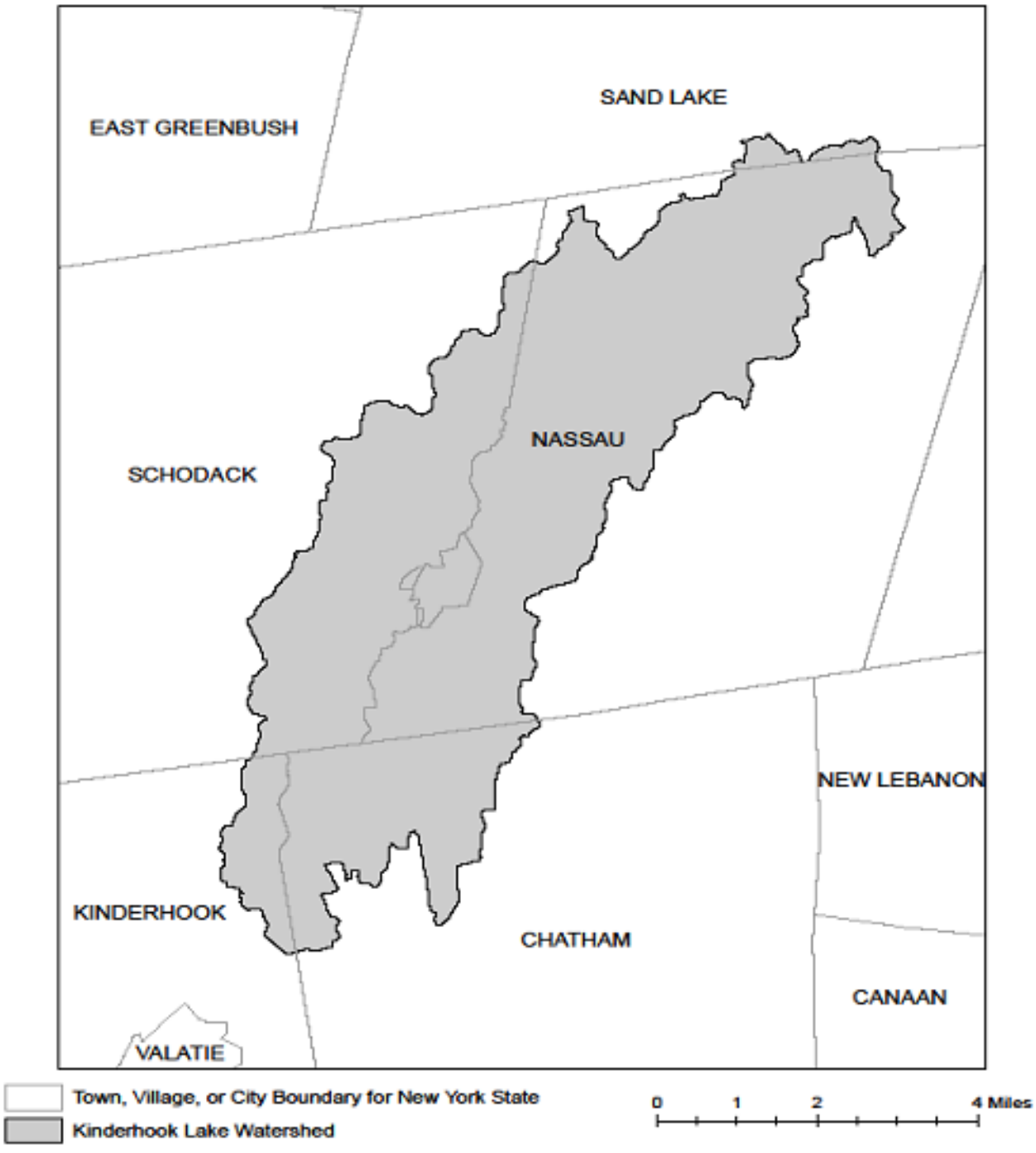
Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 4 - Oscawana Lake Watershed



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 5 - Kinderhook Lake Watershed



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix F

Forms

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

STORM WATER POLLUTION PREVENTION PLAN
CONTRACTOR'S CERTIFICATION STATEMENT

Amherst Development Park
6000-6040 North Bailey Ave
Amherst, NY 14226

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: Amherst Development Park - 6000-6040 North Bailey Ave, Amherst, NY 14226

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.

Owner/Operator First Name M.I. Last Name

_____

Signature

_____

Date

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Amherst Development Park - 6000-6040 North Bailey Ave, Amherst, NY 14226

Owner/Operator Information

Owner/Operator (Company Name/Private Owner/Municipality Name)

Benderson Development Company, LLC - 570 Delaware Ave - Buffalo, NY 14202

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

	11-26-23
Signature	Date

Revised: January 2020

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix G

NYSDEC Notice of Termination (NOT)

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Post Construction Stormwater Management

Facility Certification Form Cover Sheet

A. General Information

Use only one Cover Sheet per site with as many specific structural BMP Inspection Report attachments as needed. Please attach digital photographs of the site and structural BMPs as applicable.

Development Name:_____ Inspection Date:_____

BMP Owner:_____ Inspection Company:_____

Owner Address:_____ Company Address:_____

Owner Phone #:_____ Inspector Name:_____

Owner Email:_____ Inspector Phone #:_____

Inspector Email:_____

B. Inspection Report Attachments

The listed stormwater controls are the Structural BMPs who's Inspection Reports are to be completed per the NYS Stormwater Design Manual for this site. Please use one inspection report per BMP inspected and submit all forms together with this Cover Sheet as one single report. Also, please document the number of each structural BMP found at this site in the space below.

BMP	# of BMP	BMP	# of BMP
Micropool Extended Detention Pond (P-1)		Infiltration Basin (I-2)	
Wet Pond (P-2)		Dry Well (I-3)	
Wet Extended Detention Pond (P-3)		Surface Sand Filter (F-1)	
Multiple Pond System (P-4)		Underground Sand Filter (F-2)	
Shallow Wetland (W-1)		Perimeter Sand Filter (F-3)	
Extended Detention Wetland (W-2)		Organic Filter (F-4)	
Pond/ Wetland System (W-3)		Bioretention (F-5)	
Pocket Wetland (W-4)		Dry Swale (O-1)	
Infiltration Trench (I-1)		Wet Swale (O-2)	
Alternate Stormwater Management Practices			

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Post Construction Stormwater Management

C. Inspection Results

FAIL*

*** If any one item on the inspection form is coded as "Work needed", then the entire BMP fails inspection.**

***If a site has multiple BMPs and on fails inspection, this cover sheet is marked as fail until all items on all BMPs pass inspection.**

NOTE: Applicable BMP Inspection Reports and confirmatory digital photographs summarizing required repairs must be submitted to the Town following completion of the preliminary inspection. A re-inspection and certification must be completed within 30 days of the failed preliminary report.

PASS

NOTE: A passing inspection form should be signed below by the appropriate professional and submitted to the Town on or before the established inspection due date. Attach all applicable BMP Inspection Reports and confirmatory digital photographs accordingly.

D. Professional Certification

To be completed only when all structural BMPs at this site are functional with no outstanding maintenance issues.

I,_____, as a duly registered _____ attest that a thorough inspection has been completed for all structural BMPsthat are associated with this particular site. All inspected structural BMPs are performing properly and are in compliance with the terms and conditions of the recorded maintenance agreement for the site.

Signature:_____

Date:_____

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix H

Construction Documents

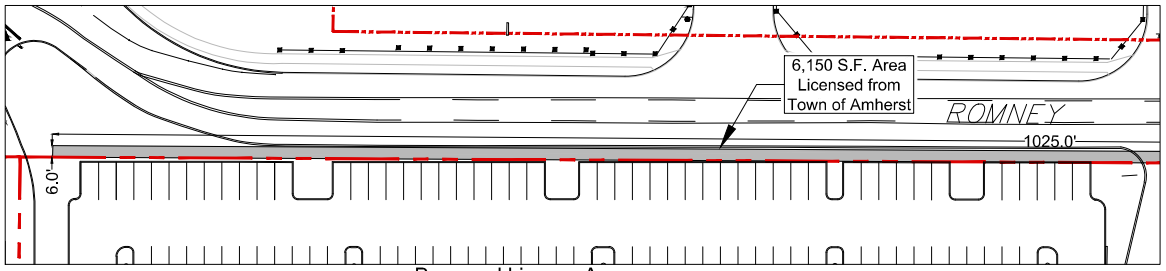
Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

TOWN OF AMHERST, NY ZONING ANALYSIS		
	REQUIRED	PROVIDED
ZONED (RD)	R-D	R-D
MIN LOT AREA	1 AC	17.14 AC
MAX. BUILDING HEIGHT	65'	<30'
BUILDING SETBACKS:		
FRONT YARD	40'	102.3'
SIDE YARD	15'	16.7'
REAR YARD	15'	48.4'
PARKING / ROAD/AUX SETBACKS:		
FRONT - PROPERTY LINE	*25'	**0'
SIDE YARD	*10'	0'
REAR YARD	10'	**6.0'

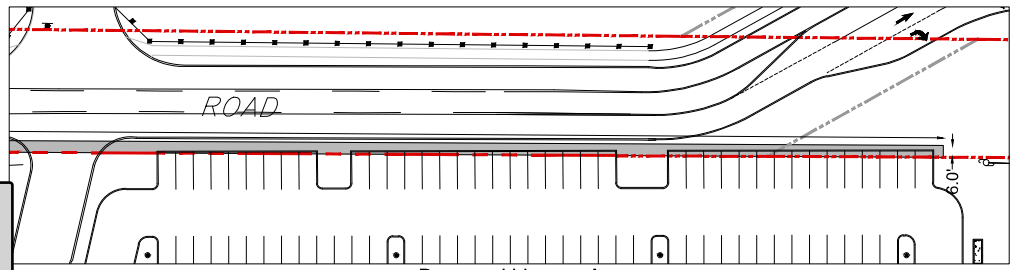
* Area to be determined to be licensed from Town of Amherst
** - Variance Required
- Curb Island Dimensions are measured from the inside of curb.

PROPOSED PARKING ANAYLSIS				
USE	CODE	S.F. USAGE	REQUIRED	PROVIDED
WAREHOUSE	1 / 1000 S.F.	181,343 SF	182 Spaces	
MEDICAL	1 / 150 S.F.	14,960 SF	100 Spaces	
RETAIL/OFFICE	1 / 200 S.F.	66,106 SF	331 Spaces	
TOTAL		262,409 SF	613 Spaces	688 Spaces
STALL SIZE			9' X 19'	9' X 19'

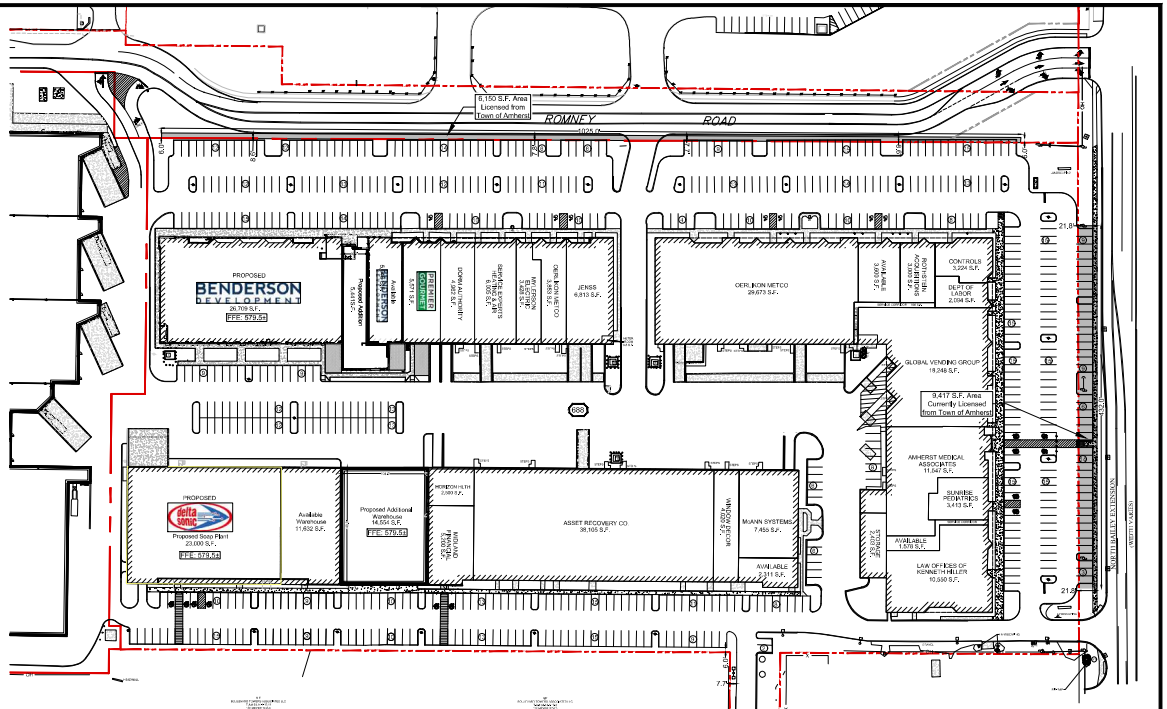
*Refer alternative parking study for site required parking



Proposed Licence Area
(1" = 30')



Proposed Licence Area
(1" = 30')



OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

SPECIAL INFORMATION:
ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ANY AND ALL STRUCTURES.

NOTICE
UNAUTHORIZED ALTERATIONS OF THIS DOCUMENT ARE IN VIOLATION OF SECTION 7209 OF THE STATE EDUCATION LAW.

NORTH

811 Know what's below. Call before you dig

PROPERTY NUMBER: #1723
AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

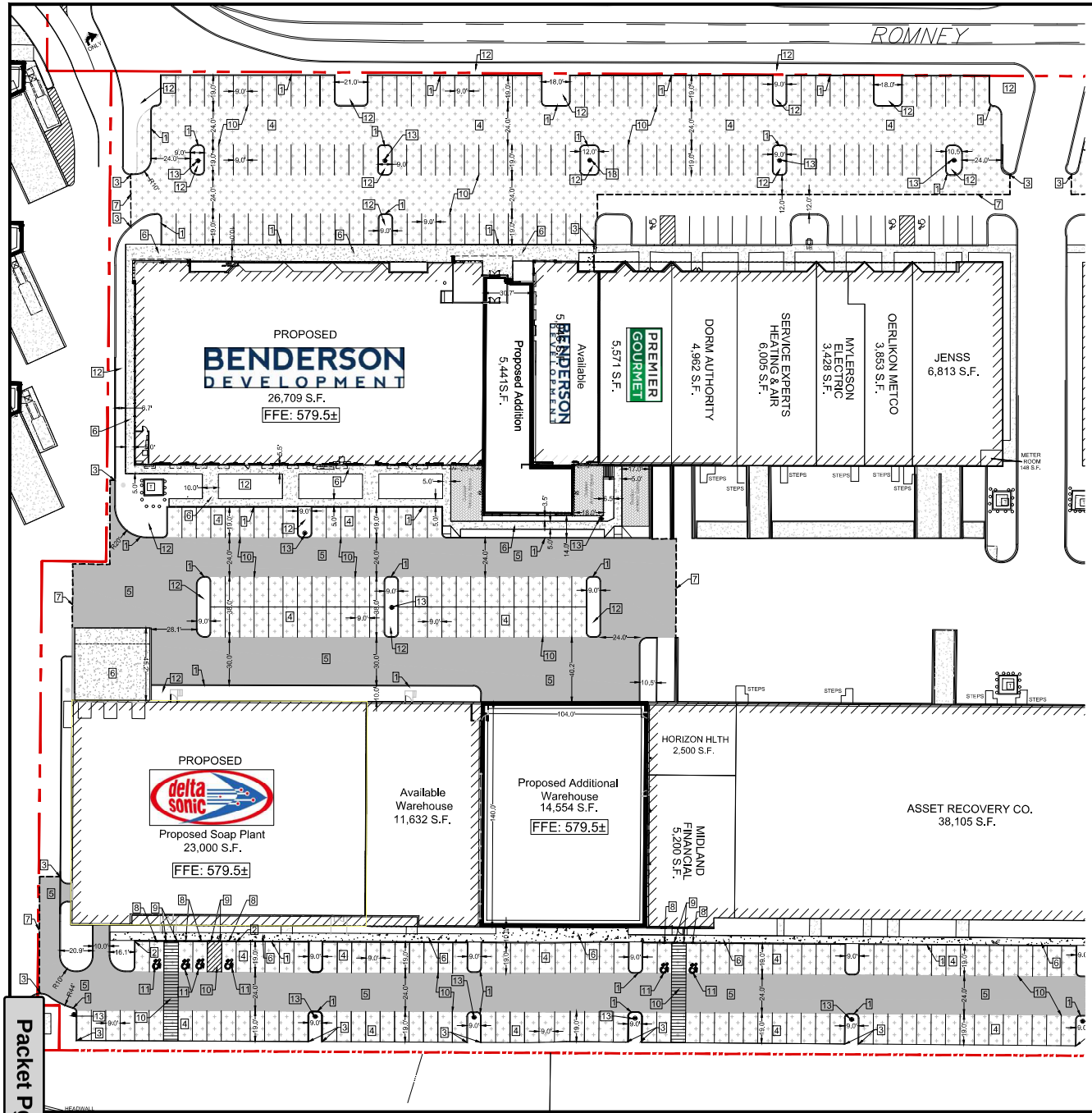
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TITLE:
Overall Site Plan

SCALE: 1:70
DRAWN BY: DMZ
DRAWING NO.: C4.0
CHECKED BY: MAO
DATE: 11.06.2023

Packet Pg. 256

1.a



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. CONTRACTOR SHALL 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 THE SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THEIR WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS EXCEPT AS DETAILED ON THE PLANS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
10. SIDEWALK DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN.
11. CONCRETE SIDEWALK SEALERS: (REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES).
    1) L. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS +28 ENCURE (WITHIN 24HRS AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED.
    2) ALL CONCRETE SIDEWALKS SHALL HAVE CONCRETE SIDEWALKS SHALL HAVE ONE (x1) COAT: CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PROCEDURE ABOVE (WITHIN 24HRS AFTER THE RELEASE AGENT OFF), APPLY 30 DAYS AFTER THIS (IF WEATHER PERMITS) APPLY ONE (1) COAT OF: CHEMMASTERS • POLYSEAL EC.
12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

SITE LEGEND:

- Property line
- 6" Curb (typ).
- Proposed sign & pole
- Proposed Concrete Sidewalk
- Proposed Standard Duty Pavement
- Proposed Heavy Duty Pavement

* All curb radii are 3ft unless noted.
* Refer to General Notes, Concstruction Details and Architectural Plans for Concrete Sealer information.

SITE NOTES:

1. Proposed 6" concrete Curb.
2. Proposed Flush Concrete Curb.
3. Match into Existing Curb or runout over 2'.
4. Proposed Standard Duty Pavement.
5. Proposed Heavy Duty Pavement.
6. Proposed Concrete Pavement/Sidewalk.
7. Match into Existing Pavement.
8. Proposed "Handicapped Parking Only" sign.
9. Proposed "No Parking" sign.
10. 4" Yellow Pavement Stripe (at 2' c-c in no parking zones).
11. Proposed White Pavement symbol (stop bar, directional arrows, accessibility symbol, text)
12. Proposed Landscape Area.
13. Proposed Light Pole Base
14. Proposed Mill and Overlay Asphalt Pavement

NB: All curb Radii to be 3' unless otherwise noted.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

SPECIAL INFORMATION:

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CONSULTANT

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ARCHITECT
PREPARED FOR
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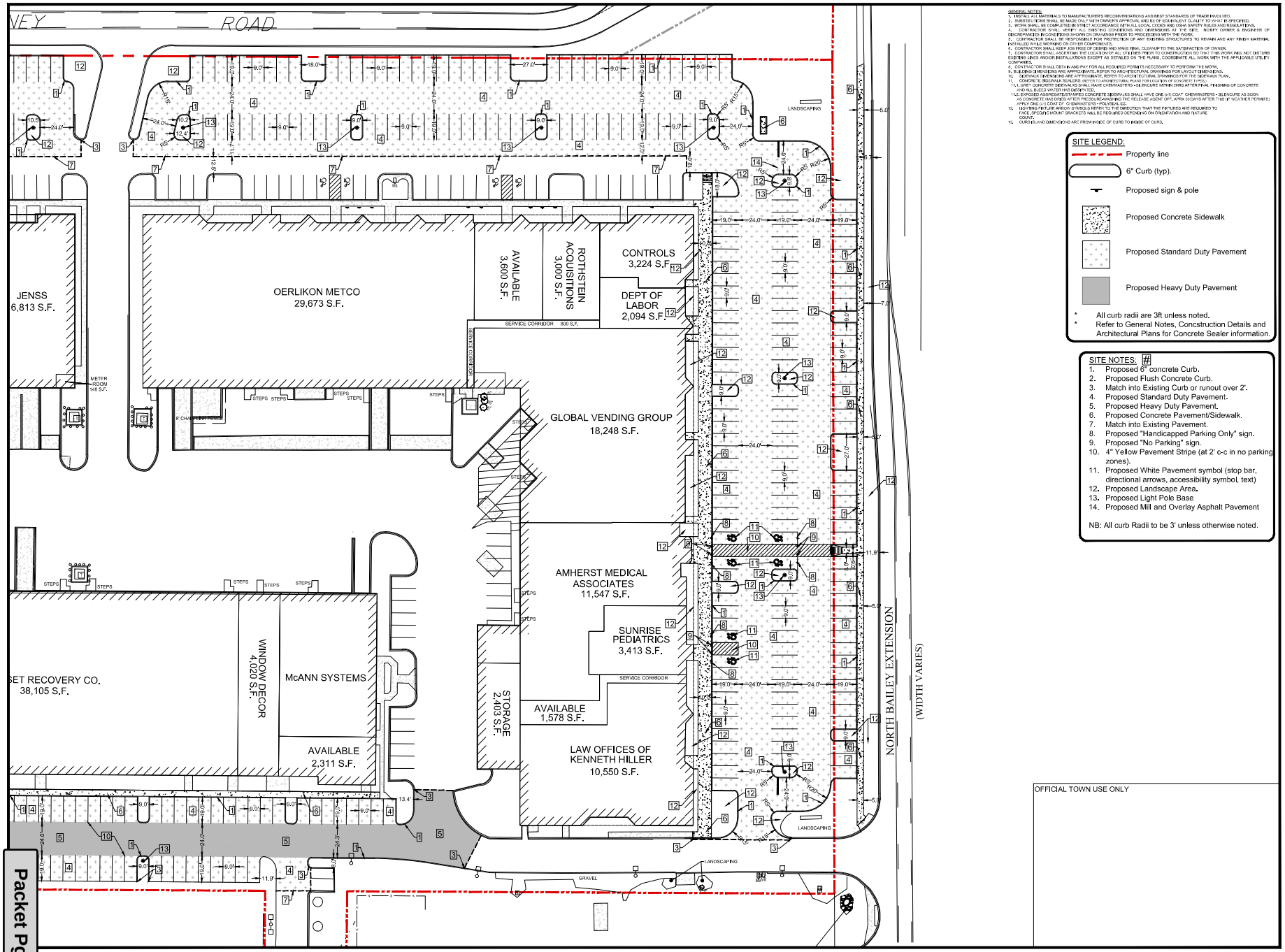
SEAL

TITLE: Detailed Site Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
DRAWING NO.
CHECKED BY: MAO
DATE: 08.16.2023

C4.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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.
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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 THE 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 EXCEPT AS DETAILED ON THE PLANS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
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10. SIDEWALK DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN.
11. CONCRETE SIDEWALK SEALERS: REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES.
    11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS - SILENCURE WITHIN (HRS) AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISPARTED.
    11.2. ALL EXPOSED AGGREGATE CONCRETE SIDEWALKS SHALL HAVE ONE (x1) COAT: CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PROCEDURE AMONG THE RELEASE AGENT OFF, APPLY 28 DAYS AFTER THIS (IF WEATHER PERMITS) APPLY ONE (x1) COAT OF: CHEMMASTERS - POLYSEAL EC.
12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

SITE LEGEND:

- Property line
- 6" Curb (typ).
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- Proposed Concrete Sidewalk
- Proposed Standard Duty Pavement
- Proposed Heavy Duty Pavement

* All curb radii are 3ft unless noted.
* Refer to General Notes, Concstruction Details and Architectural Plans for Concrete Sealer information.

SITE NOTES:

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3. Match into Existing Curb or runout over 2'.
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7. Match into Existing Pavement.
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9. Proposed "No Parking" sign.
10. 4" Yellow Pavement Stripe (at 2' c-c in no parking zones).
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12. Proposed Landscape Area.
13. Proposed Light Pole Base
14. Proposed Mill and Overlay Asphalt Pavement

NB: All curb Radii to be 3' unless otherwise noted.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

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PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE:
Detailed Site Plan (East)

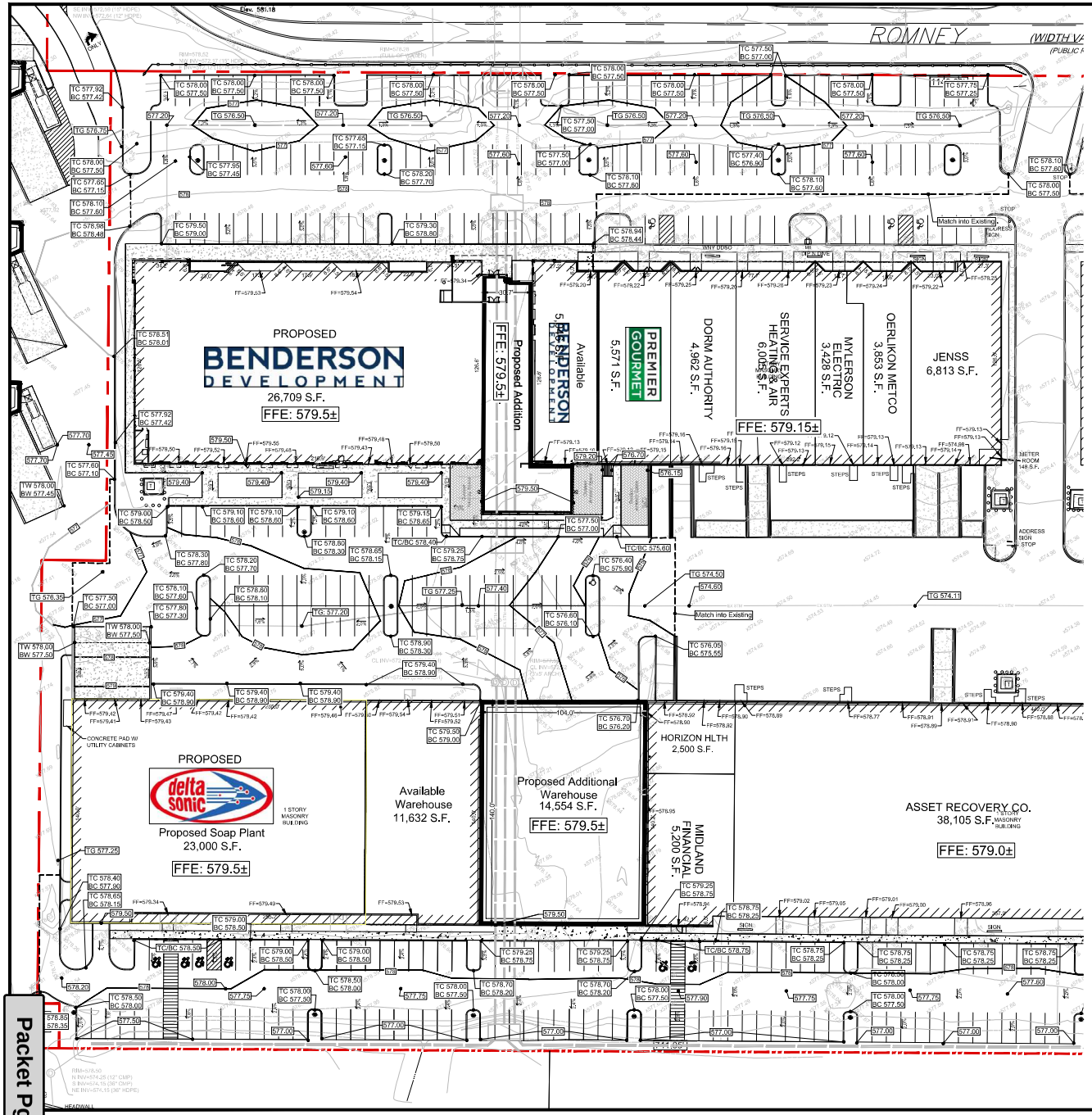
SCALE: 1:30
DRAWN BY: DMZ
DRAWING NO.
CHECKED BY: MAO
DATE: 08.16.2023

C4.

Packet Pg. 258

1.a

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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. CONTRACTOR SHALL 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 THE 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 EXCEPT AS DETAILED ON THE PLANS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
10. SIDEWALK DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN.
11. CONCRETE SIDEWALK SEALERS: REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES.
   11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS +28 ENCLOSE WITHIN 24HRS AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISAPPEARED.
   11.2. COLORED CONCRETE SIDEWALKS - COLORED CONCRETE SIDEWALKS SHALL HAVE ONE (x1) COAT CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PROCEDURE ALLOWING THE RELEASE AGENT OFF, APPLY 28 DAYS AFTER THIS (IF WEATHER PERMITS) APPLY ONE (1) COAT OF: CHEMMASTERS • POLYSEAL EC.
12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

GRADING LEGEND:
- Property Line
- 6" Curb (typ).
- TG ## — Catch Basin - Top of Grade
- ### — Proposed Contour Line
- ##% — Slope Direction

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

SPECIAL INFORMATION:
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NOTICE
UNAUTHORIZED ALTERATIONS OF THIS DOCUMENT ARE IN VIOLATION OF SECTION 7209 OF THE STATE EDUCATION LAW.

NORTH

811 Know what's below. Call before you dig

PROPERTY NUMBER: #1723
AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

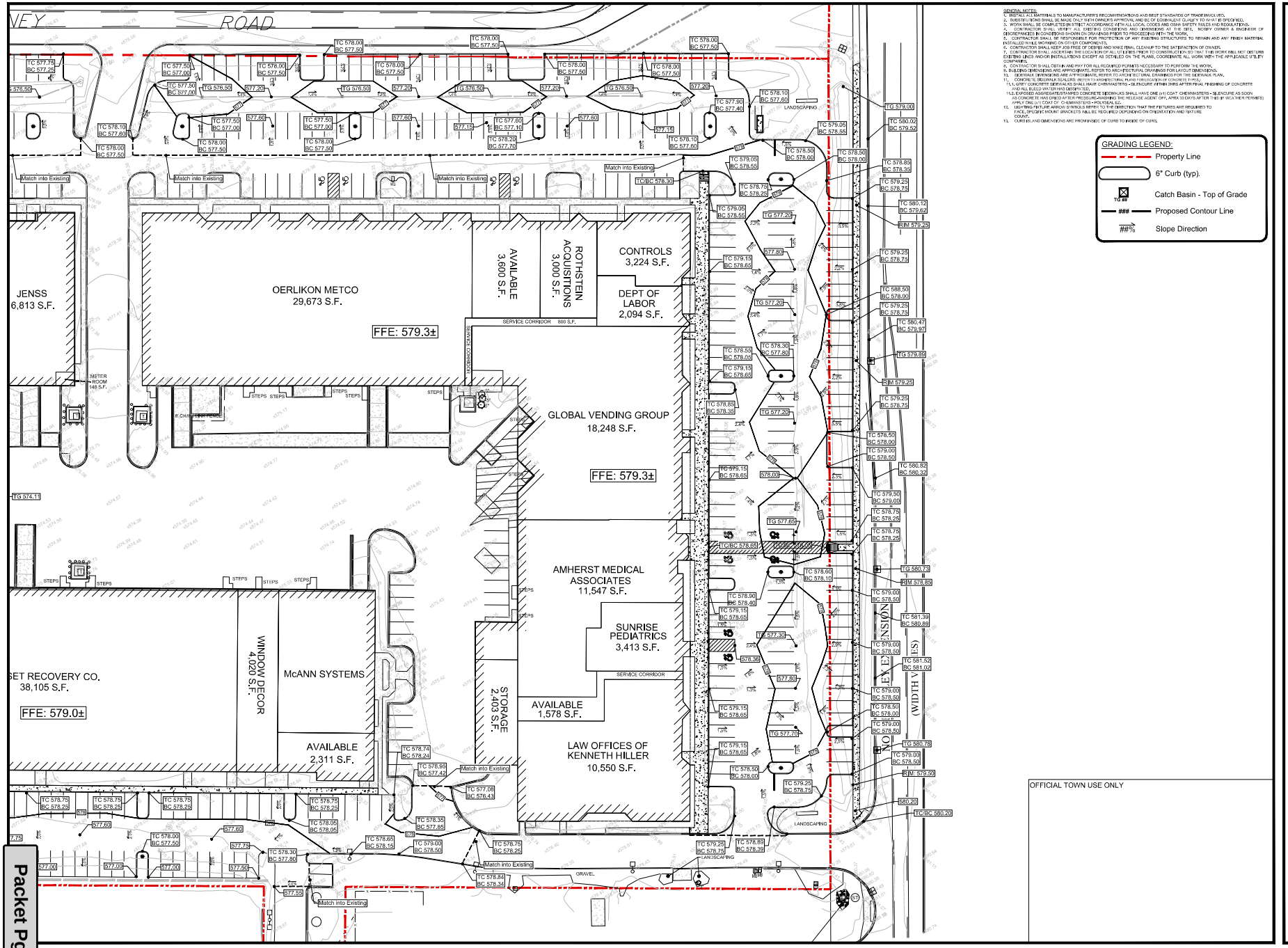
JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE:
Grading Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
DRAWING NO.: C5.0
CHECKED BY: MAO
DATE: 11.08.2023

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



GENERAL NOTES:

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    11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMASTERS - 2 (ENCLOSE WITHIN 24HRS AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED).
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12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

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AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

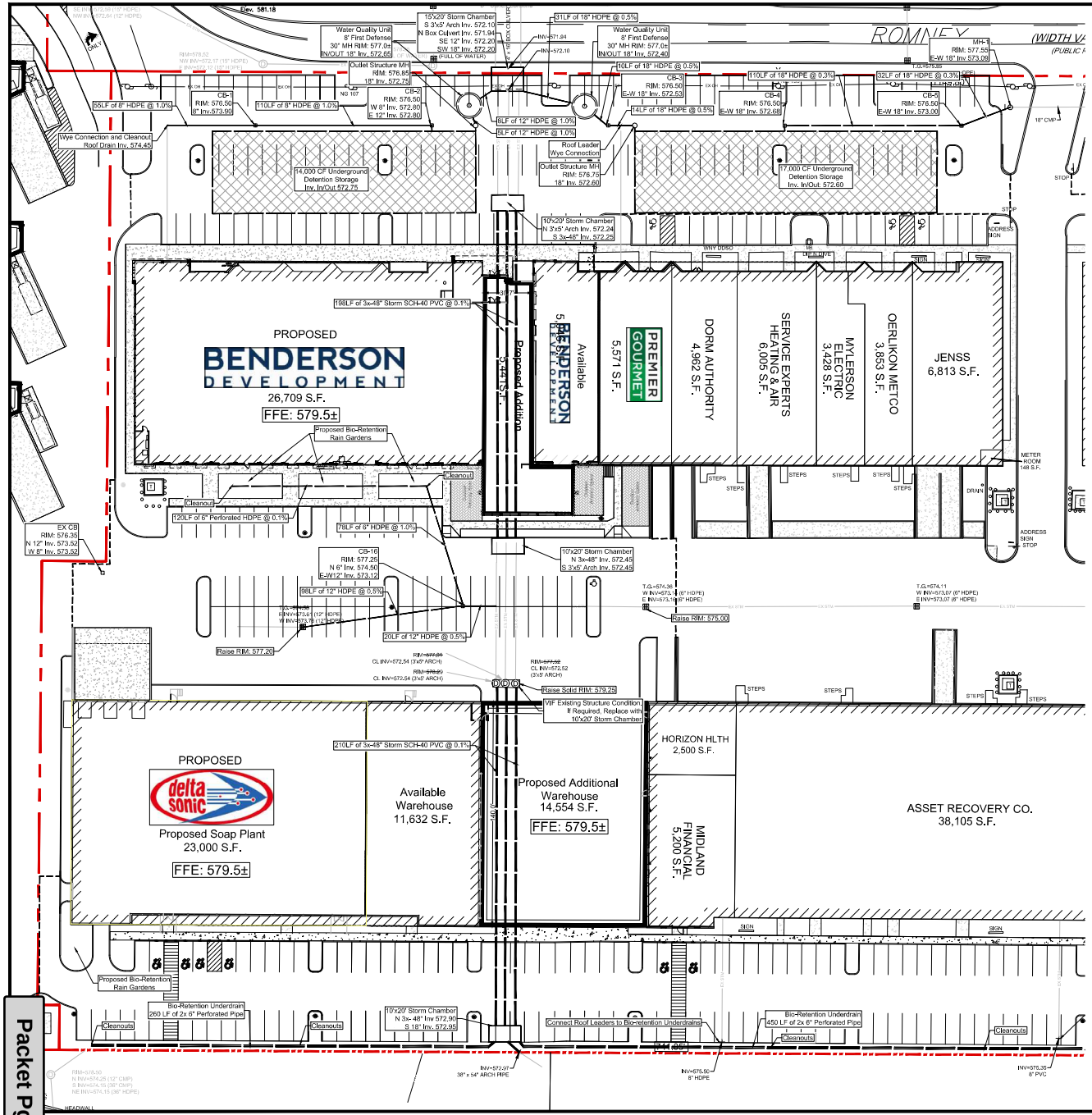
CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE:
Grading Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
DRAWING NO.: C5.0
CHECKED BY: MAO
DATE: 11.08.2023



GENERAL NOTES

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    11.2. COLORED CONCRETE SIDEWALKS: CONCRETE SIDEWALKS SHALL HAVE ONE (x1) COAT CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PROCURE/ANDING THE RELEASE AGENT OFF, APPLY 28 DAYS AFTER THIS (IF WEATHER PERMITS) APPLY ONE (x1) COAT OF CHEMMASTERS - POLYSEAL EC.
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GRADING LEGEND:

- Property Line
- 6" Curb (typ).
- TG ## — Catch Basin - Top of Grade
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OFFICIAL TOWN USE ONLY

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No.	DATE	BY	REMARKS

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NORTH

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AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE: Drainage Plan (West)

SCALE: 1:30

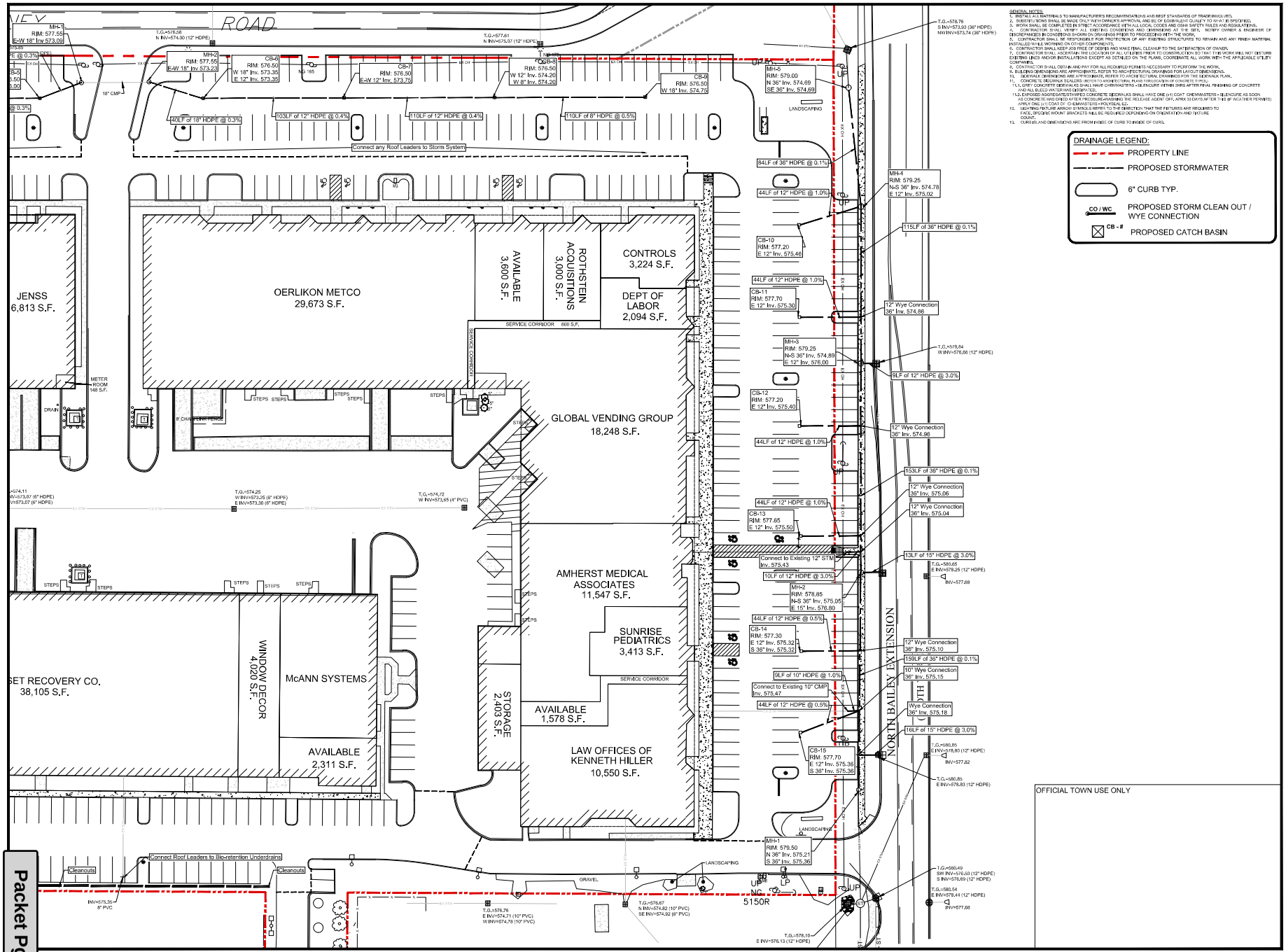
DRAWN BY: DMZ

DRAWING NO.: C5.

CHECKED BY: MAO

DATE: 11.08.2023

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



GENERAL NOTES:
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   1) L GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS - SILENCURE WITHIN 24HRS AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED.
   2) DARK GREY CONCRETE SIDEWALKS SHALL HAVE ONE (1) COAT CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PROCURING/ANSWERING THE RELEASE AGENT OFF, APPLY 30 DAYS AFTER THIS (IF WEATHER PERMITS) APPLY ONE (1) COAT OF CHEMMASTERS - POLYSEAL EC.
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DRAINAGE LEGEND:
- PROPERTY LINE
- PROPOSED STORMWATER
- 6" CURB TYP.
- CO / WC — PROPOSED STORM CLEAN OUT / WYE CONNECTION
- CB - # — PROPOSED CATCH BASIN

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

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Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE:
Drainage Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
DRAWING NO.: C5.
CHECKED BY: MAO
DATE: 11.08.2023

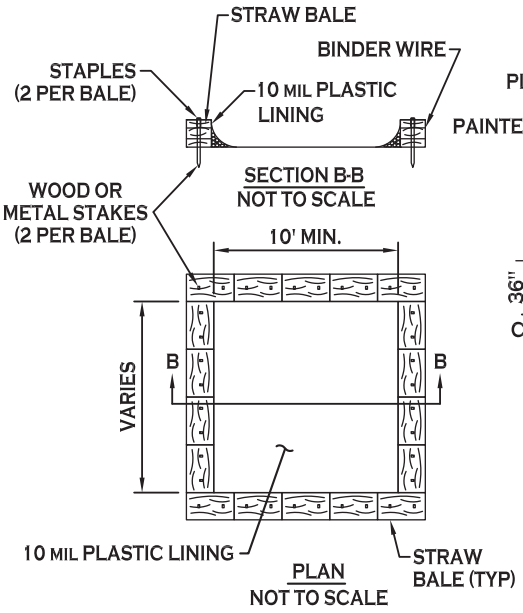
Packet Pg. 262

1.a

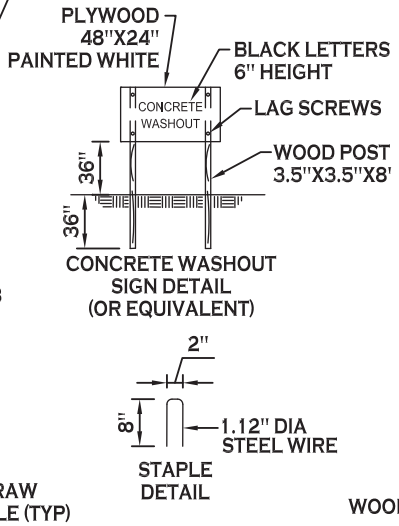
Appendix I

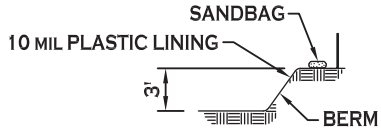
Standard Erosion Control Details

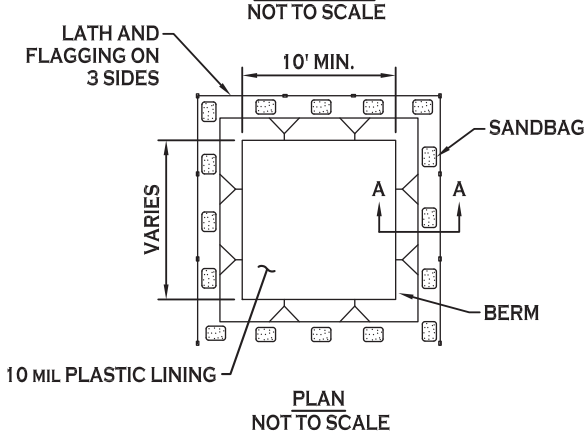
Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



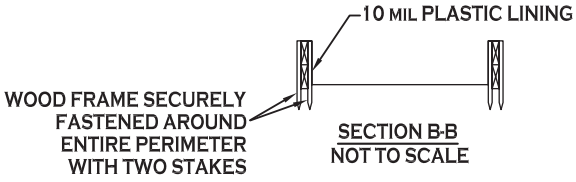
TYPE "ABOVE GRADE" WITH STRAW BALES

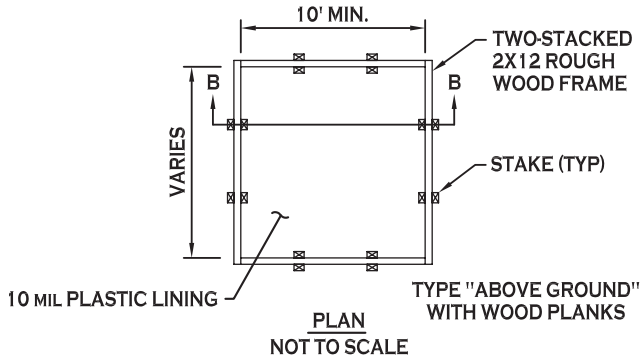






TYPE "BELOW GRADE"



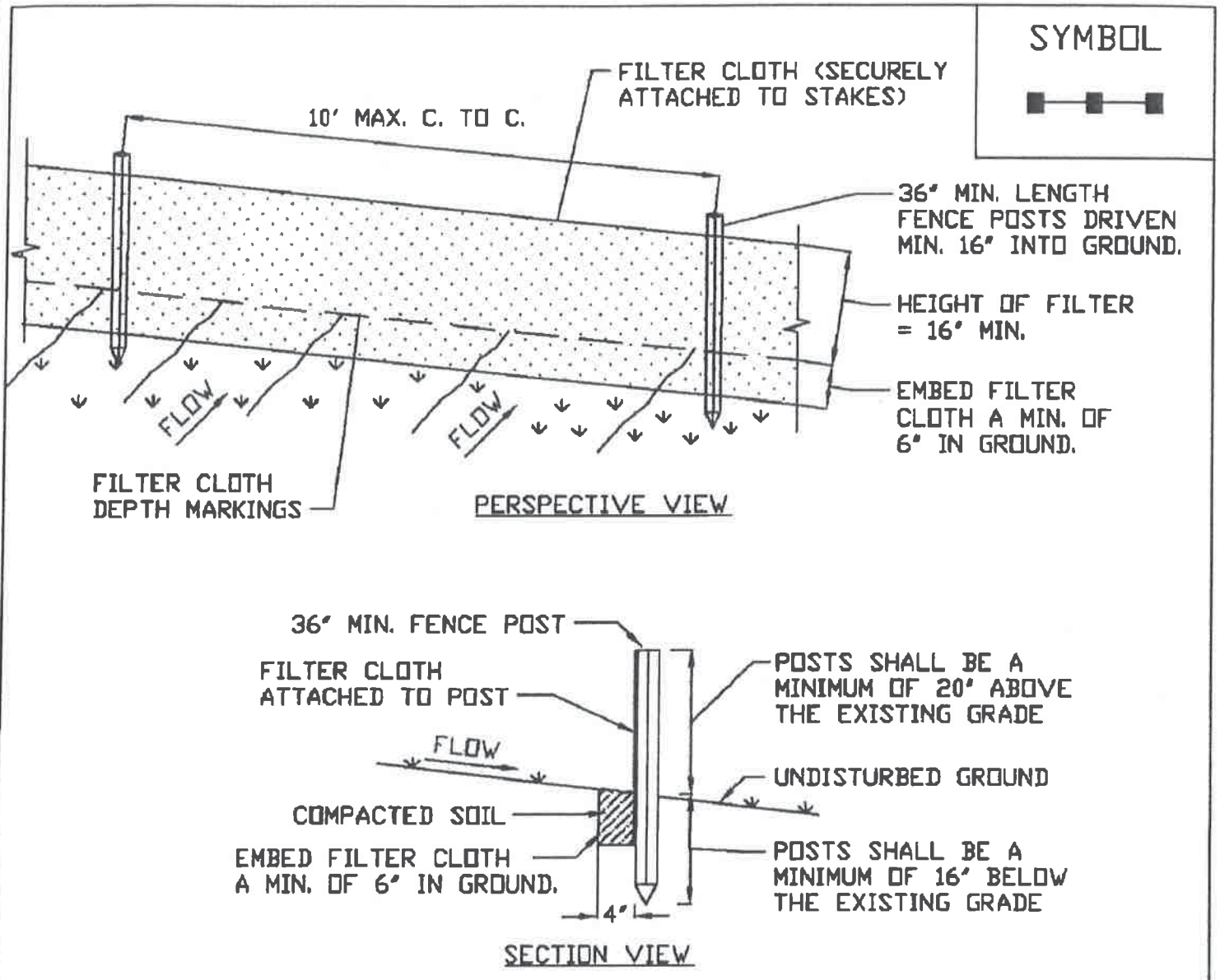


NOTES

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.

CONCRETE WASHOUT DETAIL

NOT TO SCALE

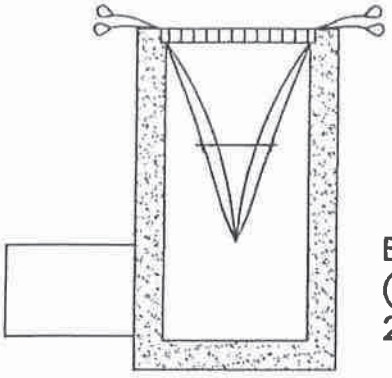


CONSTRUCTION SPECIFICATIONS

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.

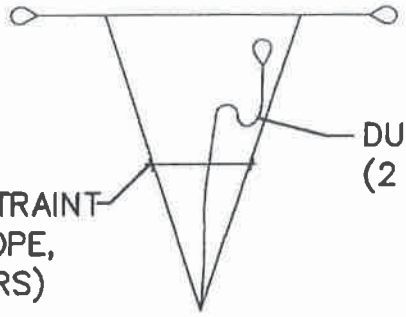
SILT FENCE (WITHOUT WIRE MESH BACKING)

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

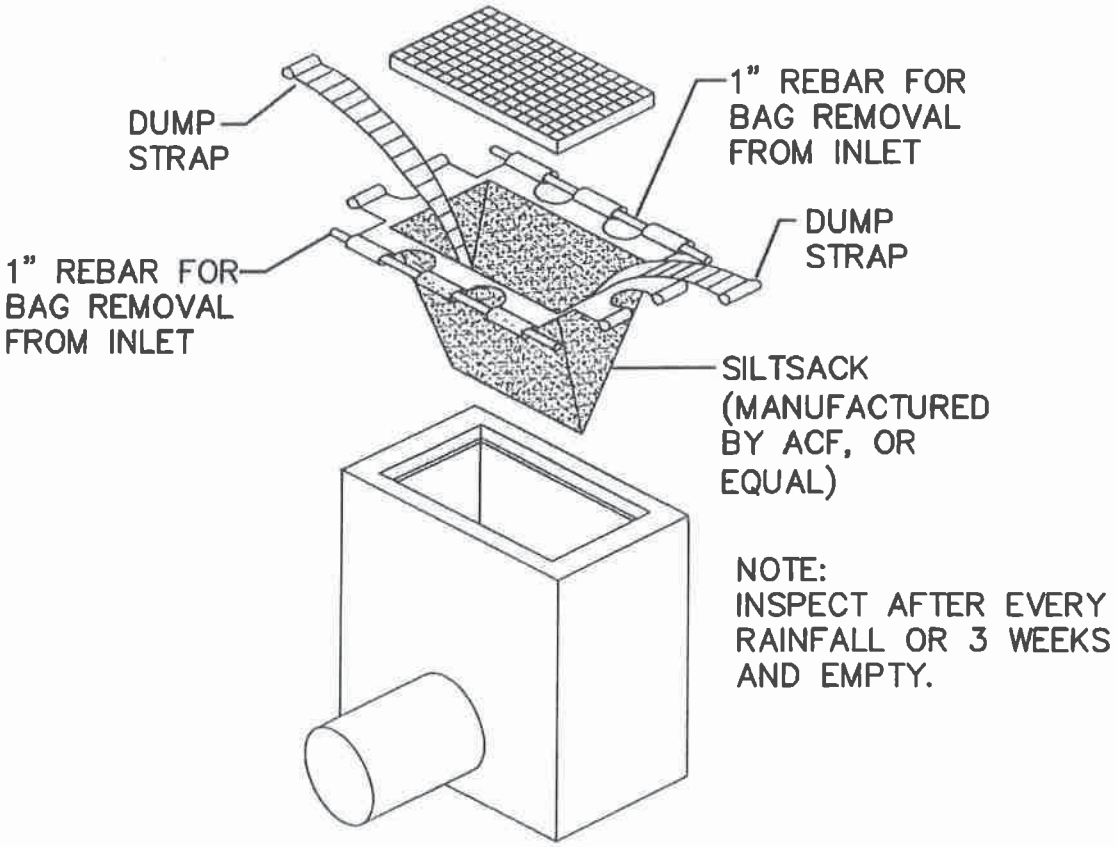


EXPANSION RESTRAINT
(1/4" NYLON ROPE,
2" FLAT WASHERS)

INSTALLATION DETAIL



BAG DETAIL

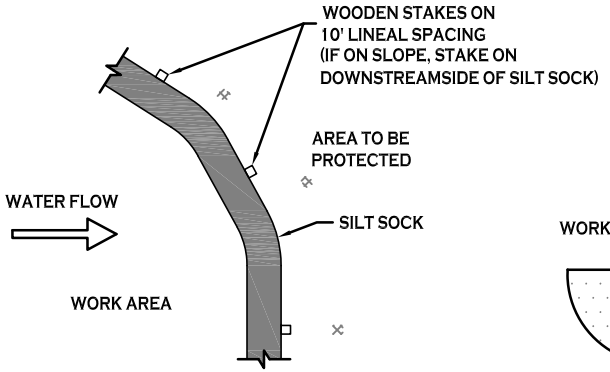


NOTE:
INSPECT AFTER EVERY
RAINFALL OR 3 WEEKS
AND EMPTY.

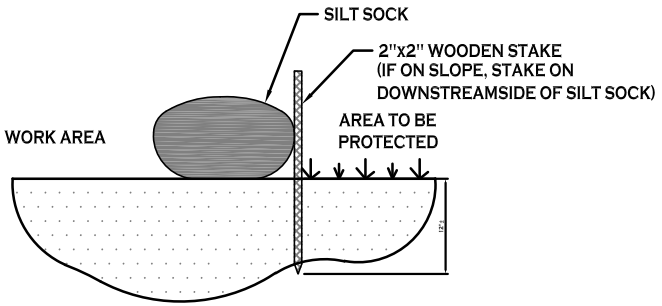
SILT SACK DETAIL

NOT TO SCALE

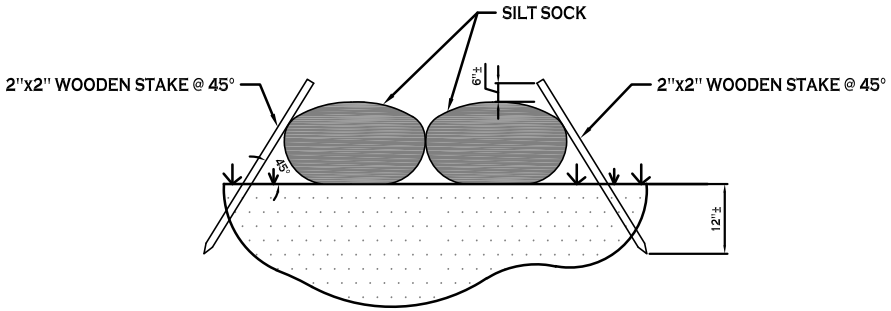
Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



PLAN VIEW



SECTION VIEW



SECTION VIEW @ JOINT OVERLAP

NOTES:

CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

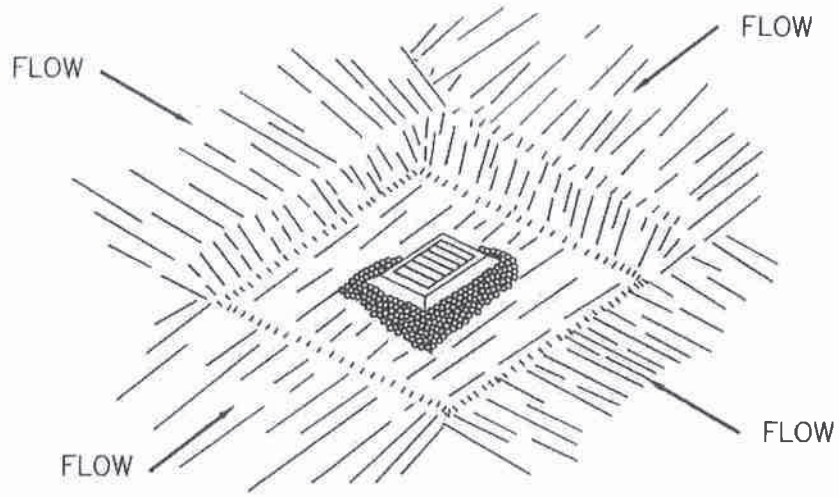
CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED $\frac{1}{2}$ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

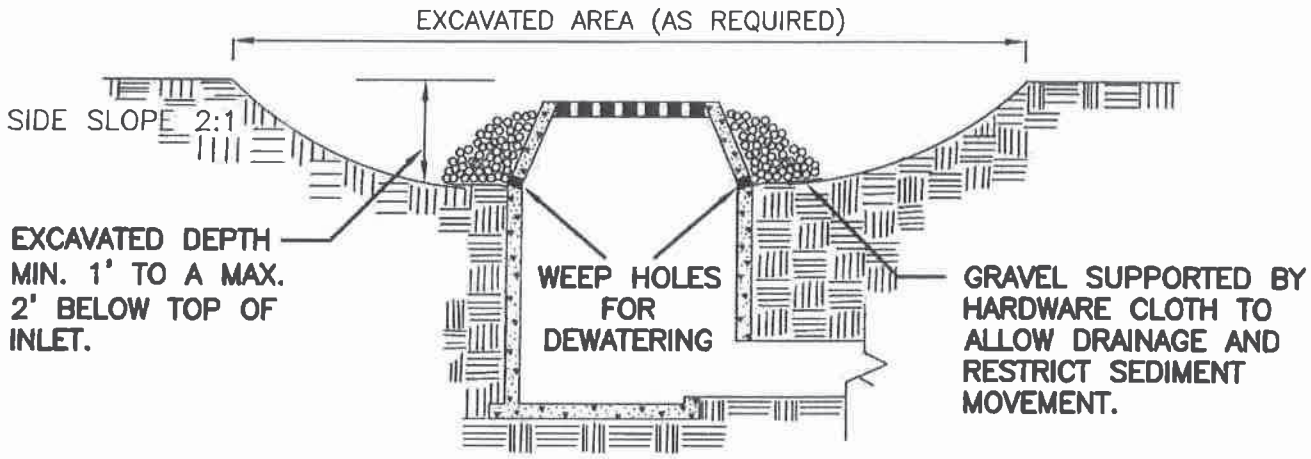
SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

SILT SOCK DETAIL

N.T.S.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)





CONSTRUCTION SPECIFICATIONS

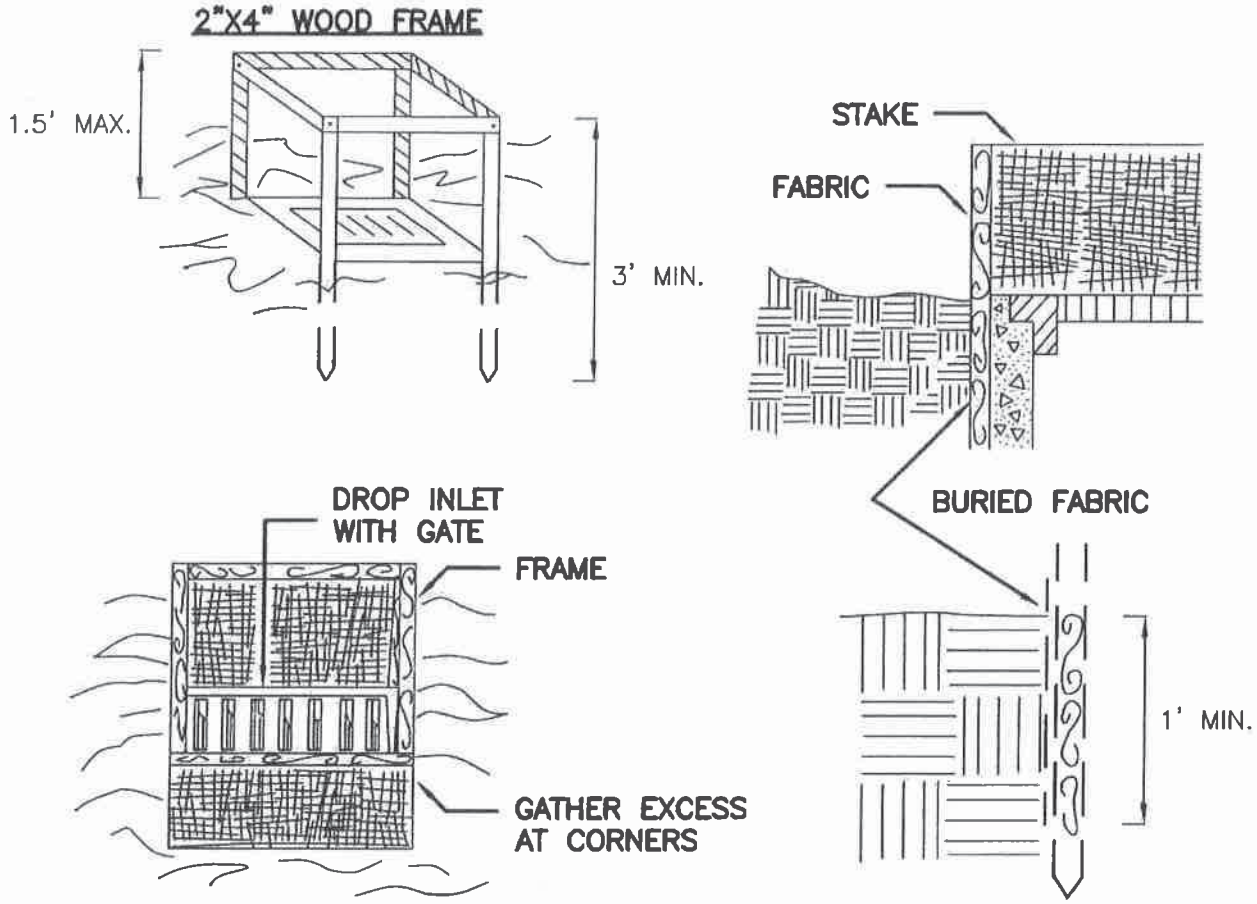
1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



CONSTRUCTION SPECIFICATIONS

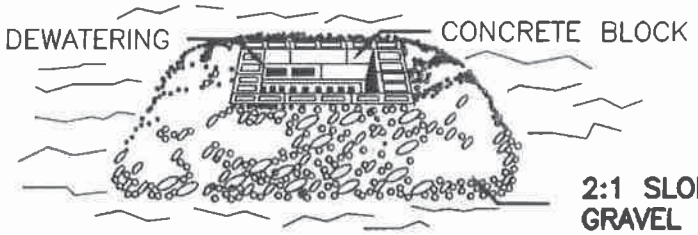
1. FILTER FABRIC SHALL HAVE AN EOS OF 40–85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH 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

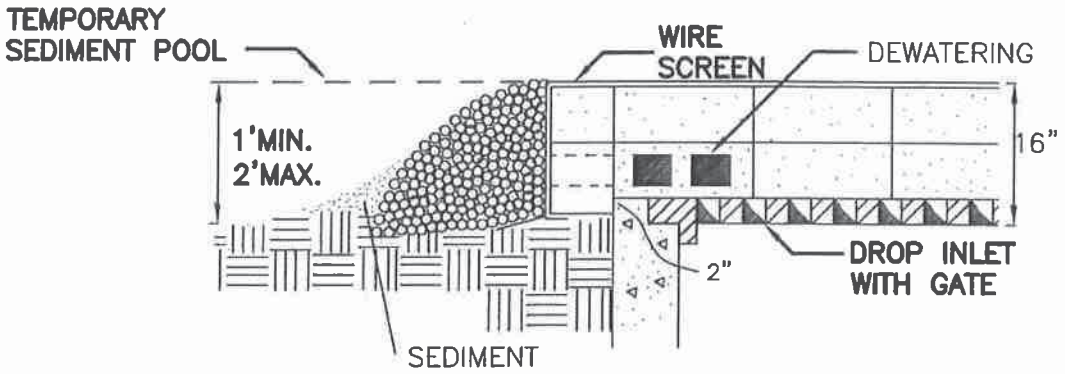
INLET PROTECTION DETAIL 2

NOT TO SCALE

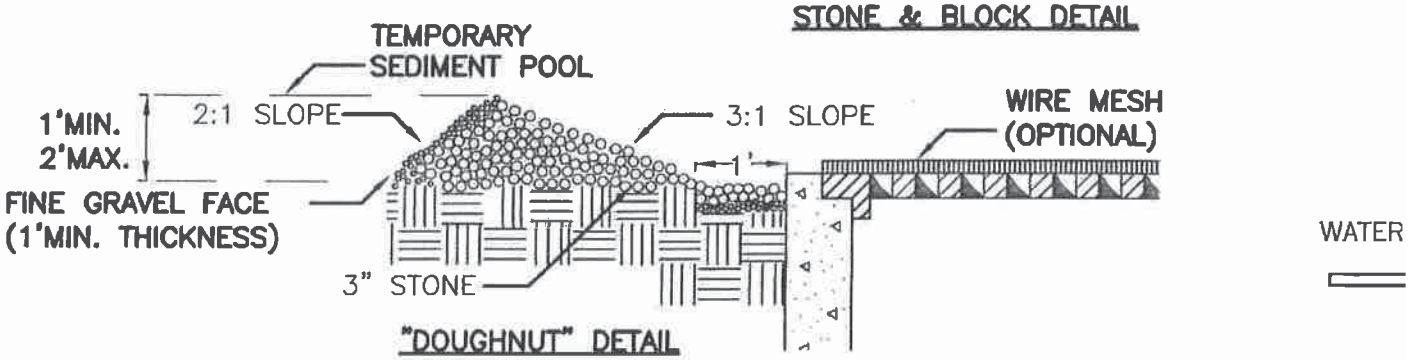
Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL



"DOUGHNUT" DETAIL

CONSTRUCTION SPECIFICATIONS

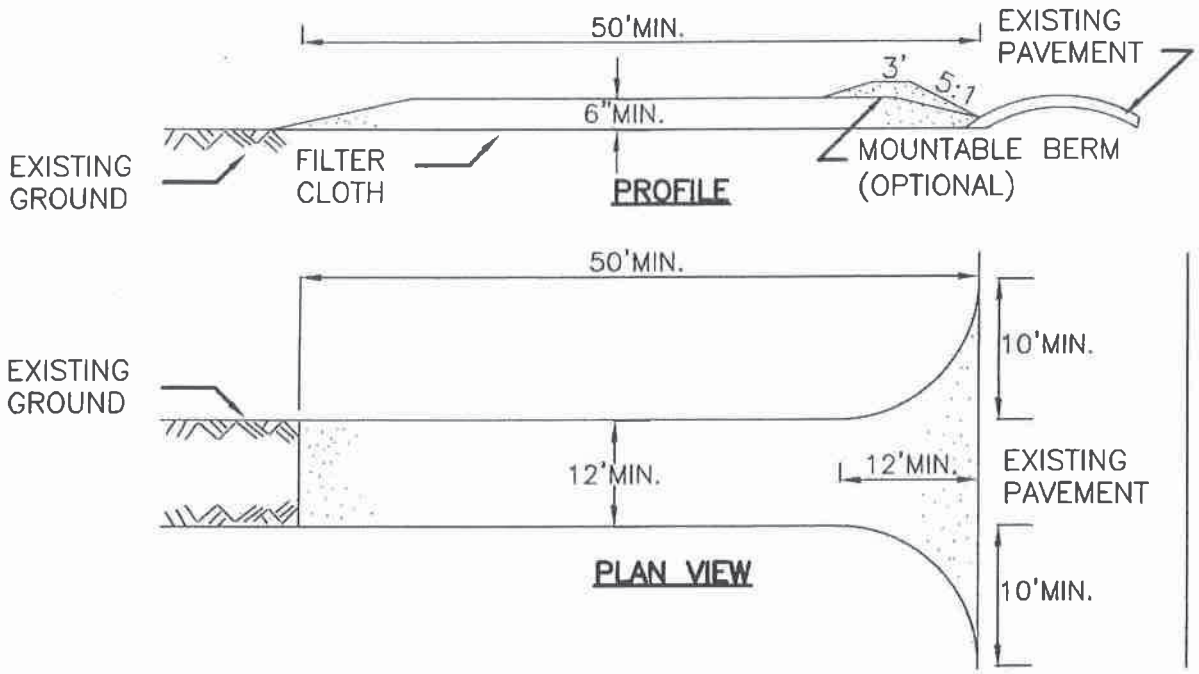
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



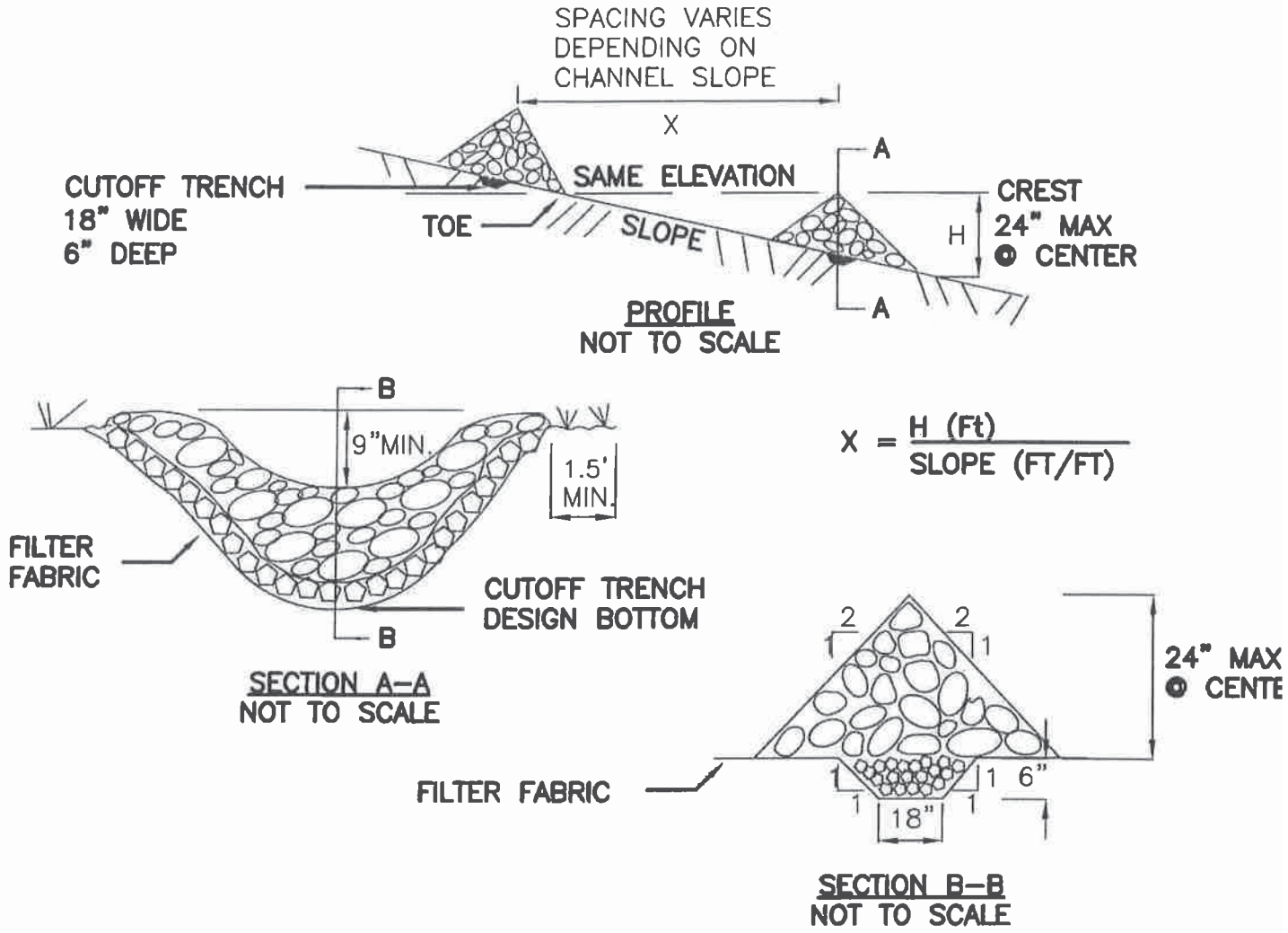
CONSTRUCTION SPECIFICATIONS

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 CON–STRUCTION 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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix J

NYSDEC Stormwater Management Inspection Lists

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Comments:

Actions to be Taken:

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Comments:

Actions to be Taken:

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINAWOOD
DESIGN

ENGINEER'S REPORT

for

Proposed 5K Retail/Restaurant
7470 Transit Road
Town of Amherst, NY 14221

Prepared for

Benderson Development Company, LLC
570 Delaware Avenue,
City of Buffalo NY 14202

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

11/2023



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 Site Location Map

Appendix B Sanitary Sewer and Water Demand Calculations

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Section 1 - Location & Description

This project is a redevelopment of a 0.76 acre site located on the east side of Transit Road just north of Tennyson Road, in the Town of Amherst, and is currently zoned G-B General Business. Construction will consist of a proposed 5,153 sf mixed use (1,153 SF Restaurant & 4,000 SF Retail) building with an associated parking area, utility, lighting, and landscaping improvements. Currently at the proposed site location there is an ex. restaurant building, with associated utilities & an ex. parking lot. The ex. building, associated utilities, and ex. parking lot areas are all to be removed within the scope of work for this site. The area to be disturbed for this project is approximately 0.70 acres total when construction is completed.

Section 2 - Water Service

Water service for the proposed building will be tapped off an ex. 6" ECWA water main, located along the north side of Tennyson Road. The proposed domestic service will be a 2" type 'k' copper, and it will run north approx. 15 LF into the proposed building. Inside the proposed building mechanical room the 2" domestic service will have a meter (by ECWA) and RPZ installed. Heat & lighting will be provided within the building to prevent freezing & for testing. Drainage due to testing or failure of the RPZ will be to the outside ground via a through-wall drain to the outside. Water inside the building will be used for typical domestic uses.

Domestic Summary:	
Peak Operating Demand:	3.03 gpm
Water Main:	6" on Tennyson Road
Static Pressure:	47 psi (ECWA)
Friction Loss:	0.0 psi
Loss through meter/RPZ:	13.0 psi
Elevation Loss:	0.0 psi
Pressure after RPZ:	34.0 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 6" sanitary sewer service will connect to the ex. 18" V.T.P. Town of Amherst sanitary sewer located within the middle of Tennyson Road. The proposed service will consist of approximately 51 LF of a 6" SDR-35 PVC sanitary sewer lateral at a min. slope of 1.0%.

Design Parameters

Retail:	0.1 gpd x 4,000 sf =	400 gpd
Restaurant:	35 gpd x 20 seats =	700 gpd

Total site sanitary demand:		= 1,100 gpd	
Peak sanitary demand:	1,100 gpd * 4.41	= 4,852 gpd	*use peaking factor of 4.41

The hydraulic loading rate is per "Design Standards for Intermediate Sized Wastewater Treatment Systems" 2014, NYSDEC. Refer to Attachment A for peaking factor calculation.

Section 4 - Storm Sewer Service

The ex. site currently sheet drains in multiple directions within the parking lot areas to catch basin structures that collect and convey the stormwater to an ex. underground leech field storm system. Ex. building roof leaders are connected into this stormwater system. This ex. underground stormwater system, all associated catch basins, storm water piping, & ex. building roof leaders are all to be removed as part of the proposed site work.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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. Proposed building roof leaders will be connected into the perforated HDPE piping installed around the perimeter of the proposed building. The stormwater system will ultimately outlet into the ex. Town of Amherst stormwater catch basin located along the south side of Tennyson Road.

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

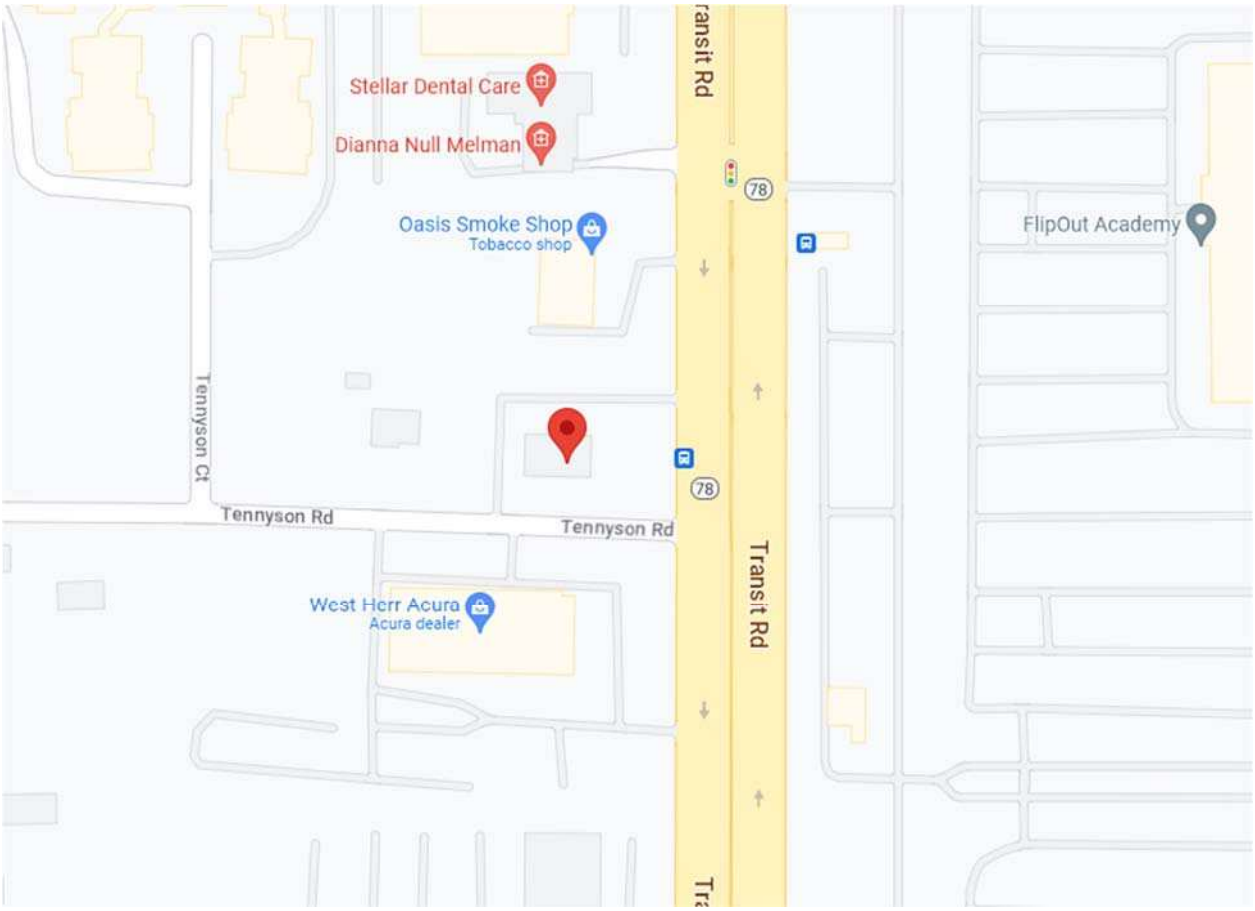
Appendix A

Site Location Map

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix A

Site Location Map



Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix B

Sanitary Sewer and Water Demand Calculations

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINA WOOD DESIGN
487 MAIN STREET, SUITE 500
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 22.311 Date: 11/6/2023
Project Name: Proposed 5K Bldg Rev. _/_/_
Project Address: 7470 Transit Road, Amherst NY
Subject: Sanitary Sewage & Water Demand Calcs
Sheet: 1 of 1

1.a

Sanitary Sewage Demand Calculations:

Average Daily Flow
Proposed 5K Building:

Retail =	0.1	gpd	x	4,000	sf	=	400	gpd	*Retail = 0.1 gpd/SF
Restaurant =	35	gpd	x	20	seats	=	700	gpd	*Restaurant = 35 gpd/seat

Total Site Sanitary Demand: = 1,100 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 1,100 gpd / 100 gpcd = 11 per capita

Population (P) = 11 people

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

Peaking Factor = 4.41

Peak Sanitary Demand = 1,100 x 4.41 = 4,852 gpd

Water Demand Calculations (domestic):

Proposed 5K Building:

1,100 gpd x 1.1 = 1,210 gpd *use 110% of sewage demand

*use 1.8 peaking factor and assume a 12 hour day

1,210 gpd x 1day/12hr x 1hr/60min = 1.68 gpm

1.68 gpm x 1.8 = 3.03 gpm Q_{peak}

Headlosses:

Q_{peak} = 3.03 gpm
Pipe = 2 inch Type 'K' Copper C = 130
Length = 15 LF

$$H_L = \frac{10.44\, L\, Q^{1.85}}{C^{1.85}\, D^{4.866}} = \frac{10.44(15)(3.03)^{1.85}}{(130)^{1.85}\,(2)^{4.866}} = 0.01 \text{ ft} = 0.00 \text{ psi}$$

Δ elev = 0 ft = 0.00 psi
Loss through meter = 1 psi
Loss through RPZ = 12 psi
Total Losses = 13.00 psi
Static Pressure = 47 psi (Per ECWA flow test 02/05/2021)
Residual Pressure Following RPZ = 47.0 - 13.0 = 34.00 psi

Attachment: SP-1988-11P_application_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

PROPOSED SITE MODIFICATIONS

Amherst Development Park
6000 - 6040 N.Bailey Ave, Amherst, NY
BDC Property # 1723
SITE DEVELOPMENT DRAWINGS

INDEX OF DRAWINGS

DWG. #	DRAWING NAME	REVISION	DATE
C1.0	COVER SHEET	1	11.16.2023
C2.0	EXISTING SURVEY		
C3.00	DEMOLITION & EROSION CONTROL PLAN WEST	1	11.16.2023
C3.01	DEMOLITION & EROSION CONTROL PLAN EAST		
C3.10	DEMOLITION & EROSION CONTROL PLAN DETAILS		
C4.0	OVERALL SITE PLAN		
C4.10	DETAILED SITE PLAN WEST	1	11.16.2023
C4.11	DETAILED SITE PLAN EAST		
C4.20	CONSTRUCTION DETAILS		
C5.00	GRADING PLAN WEST	1	11.16.2023
C5.01	GRADING PLAN EAST		
C5.10	DRAINAGE PLAN WEST	1	11.16.2023
C5.11	DRAINAGE PLAN EAST		
C5.20	DRAINAGE DETAILS		
C6.00	UTILITY PLAN WEST	1	11.16.2023
C6.01	UTILITY PLAN EAST		
C6.10	UTILITY DETAILS		
C7.0	LANDSCAPING PLAN		
C8.0	LIGHTING PLAN		

OWNER/DEVELOPER:

NAME: BENDERSON DEVELOPMENT COMPANY, LLC
ADDRESS: 570 DELAWARE AVENUE, BUFFALO, NY 14202
CONTACT: DAVID ZUPPELLI
PHONE: 716 - 878 - 9683

BENDERSON DEVELOPMENT COMPANY, LLC
570 Delaware Ave.
Buffalo, New York 14202

SURVEYOR

NAME: KHEOPS ARCHITECTURE, ENGINEERING & SURVEY, DCP
ADDRESS: 300 PEARL STREET, BUFFALO, NY 14202
CONTACT: -
PHONE: 716-849-8739

UTILITIES:

NATURAL GAS
NAME/TITLE: WILLIAM SCHNEIDER
COMPANY/DEPT: NATURAL FUEL GAS
ADDRESS: -
PHONE: 716 - 696 - 6460

TELEPHONE COMPANY
NAME/TITLE: JOHN HECKMAN
COMPANY/DEPT: VERIZON
ADDRESS: -
PHONE: 716 - 840 - 8603

ELECTRIC
NAME/TITLE: -
COMPANY/DEPT: NATIONAL GRID
ADDRESS: -
PHONE: -

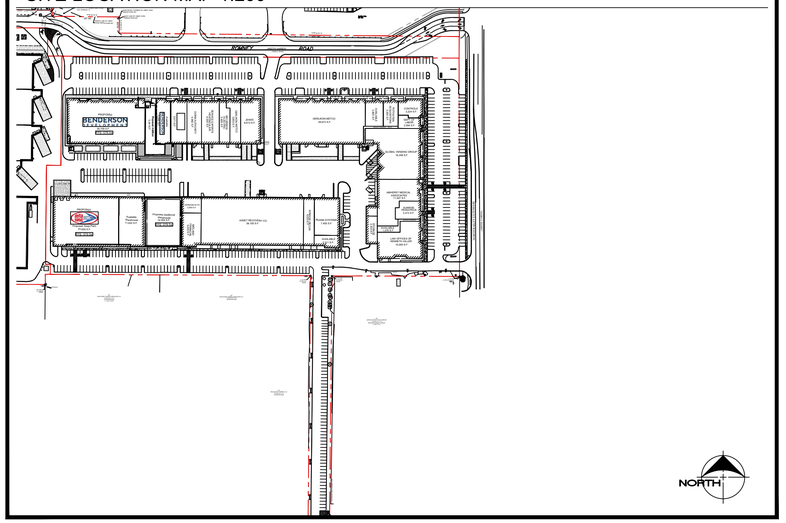
DIG SAFELY NEW YORK
PHONE: 1 - 800 - 962 - 7962 OR (811)

AGENCIES:

ENGINEERING DEPARTMENT
NAME/TITLE: JEFF BURROUGHS
COMPANY/DEPT: TOWN OF AMHERST, NY - ENGINEERING DPT
ADDRESS: 1100 NORTH FOREST RD, WILLIAMSVILLE, NY
PHONE: 716 - 631 - 7154 EX 7418

BUILDING & PLUMBING DEPARTMENT
NAME/TITLE: -
COMPANY/DEPT: TOWN OF AMHERST, NY - BUILDING DPT
ADDRESS: 5583 MAIN STREET, WILLIAMSVILLE, NY 14221
PHONE: 716 - 631 - 7080

SITE LOCATION MAP 1:200



REGIONAL LOCATION MAP NTS



OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	11.16.2023	DZ	SWPPP Update

SPECIAL INFORMATION:

ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ANY AND ALL STRUCTURES.

NOTICE

UNAUTHORIZED ALTERATIONS OF THIS DOCUMENT ARE IN VIOLATION OF SECTION #7209 OF THE STATE EDUCATION LAW.

NORTH

811 Know what's below. Call before you dig.

PROPERTY NUMBER: #1723
AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

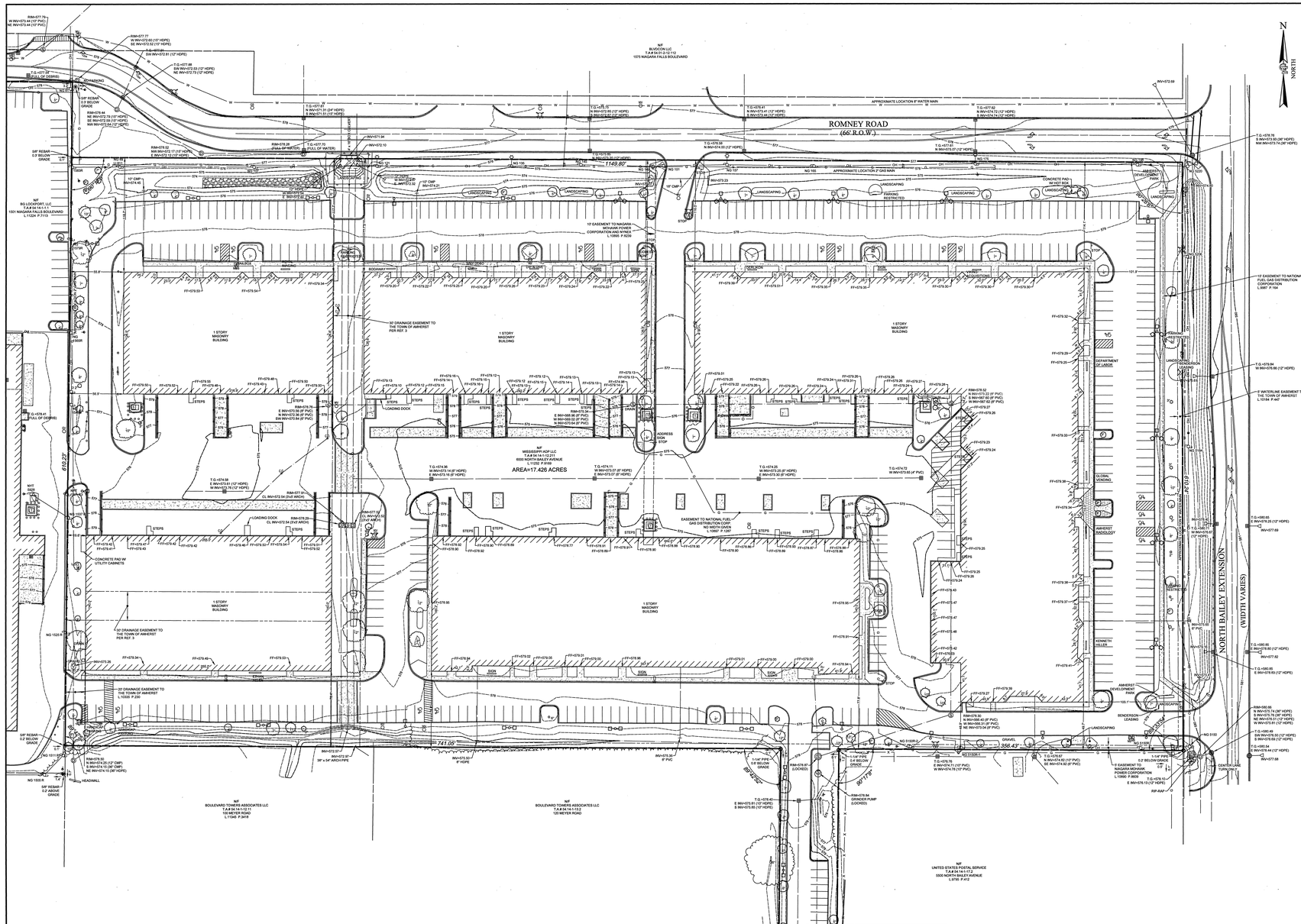


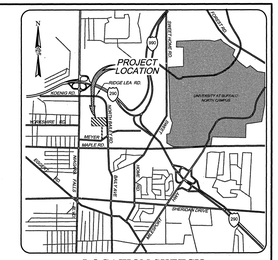
TITLE:

COVER SHEET

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C1.0

Attachment: SP-1988-11P drawings 091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)





LOCATION SKETCH

NOT TO SCALE

LINE LEGEND

- SECTION/PARCEL BOUNDARY
- MIN. BUILDING SETBACK
- CENTER LINE
- EXIST. EASEMENT LINE
- EXIST. RIGHT-OF-WAY LINE
- EXIST. EDGE OF PAVEMENT
- EXISTING WATER MAIN, VALVE, & HYDRANT.
- EXISTING SANITARY SEWER, & MANHOLE.
- EXISTING DRAINAGE SEWER, FIELD INLET, INLET MANHOLE, MANHOLE, & END SECTION.
- EXISTING OVERHEAD UTILITIES
- EXISTING TELEPHONE
- EXISTING UNDERGROUND UTILITIES
- EXISTING GAS
- EXISTING ELECTRIC
- EXISTING GUARD RAIL
- TREE,HEDGE,EDGE OF WOODS
- EXISTING SWALE
- EXISTING SPOT ELEVATION @ X
- CONCRETE PAD/ CONCRETE SIDEWALK

SYMBOL LEGEND

DRAINAGE MANHOLE		ELECTRIC MANHOLE	
INLET DRAINAGE MANHOLE		ELECTRIC METER	
CATCH BASIN	T	TELEPHONE MANHOLE	
END SECTION		TELEPHONE PEDESTAL	
END OF PIPE	PH	PHONE BOOTH	
MANHOLE		PEDESTRIAN POLE	
SANITARY MANHOLE	TRAF. CONT. CAB.	TRAFFIC CONTROL CABINET	
CLEAN OUT		LAMP POST	
GAS VALVE		LIGHT POLE	
GAS SERVICE		UTILITY POLE WITH LIGHT	
GAS METER	FLAG POLE	FLAG POLE	
WATER VALVE	MB	MAILBOX	
WATER SERVICE		BOLLARD	
HYDRANT		POST	
WATER METER		SIGN	
CABLE TV PEDESTAL		SIGN	
SIGNAL POLE		SIGN	
UTILITY POLE		TURNING ARROW	
GUY WIRE		HANDICAP	
PULL BOX	STOP	STOP BAR	
ELECTRIC PULL BOX		TREE DECIDUOUS	
TELEPHONE PULL BOX		TREE CONIFEROUS	
TRAFFIC PULL BOX		BUSH	
TRANSFORMER			

EASEMENT NOTES
T.A.# 54.14-1-12.211

1. EASEMENT MADE BY BOULEVARD POWER CO. TO NEW YORK TELEPHONE COMPANY RECORDED OCTOBER 30, 1968 IN LIBER 7527 OF DEEDS, PAGE 543. (NOT PLOTTABLE)
2. EASEMENT MADE BY MARIET DEVELOPMENT CORPORATION OF NEW YORK TO NIAGARA MOHAWK POWER CORPORATION RECORDED SEPTEMBER 11, 1967 IN LIBER 7392 OF DEEDS, PAGE 474. (DOES NOT AFFECT PREMISES)
3. RIGHT OF WAY MADE BY MARIET DEVELOPMENT CORPORATION OF NEW YORK TO IROQUOIS GAS CORPORATION RECORDED SEPTEMBER 29, 1967 IN LIBER 7399 OF DEEDS, PAGE 98. (NOT PLOTTABLE)
4. EASEMENT FROM NIAGARA BOULEVARD TOWERS, INC TO NIAGARA MOHAWK POWER CORPORATION AND NEW YORK TELEPHONE CO. RECORDED ON AUGUST 29, 1968 IN LIBER 7506 OF DEEDS, PAGE 503. (NOT PLOTTABLE)
5. EASEMENT RESERVED BY BOULEVARD TOWERS CO. CONTAINED IN DEED RECORDED ON JULY 28, 1988 AT LIBER 9895 OF DEEDS, PAGE 528.

SURVEY NOTES

1. TOPOGRAPHY SHOWN FROM A FIELD SURVEY BY COSTICH ENGINEERING ON 5/4/2021 HORIZONTAL AND VERTICAL DATA OBTAINED THROUGH NYSDOT CORS NETWORK REFERENCED TO THE FOLLOWING MONUMENT

HAMBURG CORS STATION
-LATITUDE: 42-43-37.82029 (N) } NAD 83 (CORS)
-LONGITUDE: 078-54-54.28606 (W)
-ELLIP HEIGHT: 212.508 METERS } NAVD 88 (CORS)

REFERENCES

1. THE DEEDS AS SHOWN ON FILE AT THE ERIE COUNTY CLERKS OFFICE.
2. ALTA/NSPS LAND TITLE SURVEY PREPARED FOR DDR - PROJECT SABRE PROJECT, PREPARED BY BOCK & CLARK, HAVING PROJECT NO. 20150439-003, DATED 1/26/2016.
3. ALTA/NSPS LAND TITLE SURVEY 6000-6040 NORTH BAILEY AVENUE, PREPARED BY TVGA CONSULTANTS, HAVING JOB NO. 2006.0095.00, DATED 6/12/2006.

UTILITY INFORMATION

UTILITY INFORMATION PER UFPO DESIGN TICKET # 04261-000-825-00 DATED APRIL 29, 2021

1. CHARTER COMMUNICATIONS BUFFALO	317-575-7800 X2	NO CONFLICT
2. ERIE COUNTY WATER AUTHORITY	716-655-8207	UTILITIES PLOTTED
3. LIGHTOWER FIBER TECHNOLOGIES	888-632-0931 X2	NO RESPONSE
4. NATIONAL FUEL GAS - TONAWANDA	716-857-7431	UTILITIES PLOTTED
5. NATIONAL GRID - WEST - ELECTRIC	315-428-6319	NO CONFLICT
6. SUNOCO PIPELINE LP	713-989-7079	NO RESPONSE
7. TOWN OF AMHERST	716-631-7413	UTILITIES PLOTTED
8. VERIZON / BUFFALO	315-937-2515	UTILITIES PLOTTED

SITE DATA

T.A.# 54.14-1-12.211

1. EXISTING ZONING: RD - RESEARCH AND DEVELOPMENT DISTRICT
2. BULK REQUIREMENTS:

	REQUIRED
MIN. LOT AREA (SF)	1 ACRE
MAX LOT COVERAGE	NONE REQUIRED
MIN. LOT WIDTH (FT)	35
MAX. BUILDING HEIGHT (FT)	65 FEET
MIN. FRONT YARD SETBACK (FT)	20 FEET FOR BUILDINGS UP TO 35 FEET IN HEIGHT; 30 FEET FOR BUILDINGS GREATER THAN 35 FEET IN HEIGHT
MIN. SIDE YARD SETBACK (FT)	0 TO 10 FEET FOR BUILDINGS UP TO 30 FEET IN HEIGHT; 25 FEET FOR BUILDINGS GREATER THAN 30 FEET IN HEIGHT; PLUS 3 FEET FOR EACH 1 FOOT OF HEIGHT OVER 35 FEET
MIN. REAR YARD SETBACK (FT)	15 FEET FOR BUILDINGS UP TO 30 FEET IN HEIGHT; 25 FEET FOR BUILDINGS GREATER THAN 30 FEET IN HEIGHT; PLUS 3 FEET FOR EACH 1 FOOT OF HEIGHT OVER 35 FEET

CERTIFICATION

WE, COSTICH ENGINEERING, D.P.C., HEREBY CERTIFY TO:

THIS MAP WAS PREPARED FROM NOTES OF AN INSTRUMENT SURVEY COMPLETED ON MAY 12, 2021 AND FROM THE REFERENCE(S) LISTED HEREON. NO SEARCH OF RECORDS, OTHER THAN THOSE REFERENCED, WAS MADE FOR EASEMENTS OR ENCUMBRANCES AFFECTING THIS PARCEL.

By: Daniel T. Hirkala, N.Y.S. L.S., No. 050449 Date: 6-7-2021

Dig Safely. New York Call 811 before you dig

EXISTING UTILITIES (LOCATION, SIZES AND INVERTS) SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF, OR CLOSELY PARALLEL TO, OR UNDER, THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS OR DAMAGES OCCURRING AS A RESULT OF INCORRECTLY LOCATED UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY UNDERGROUND UTILITY LOCATION SERVICE AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK.

GRAPHIC SCALE
40 0 20 40 80 120
(IN FEET)
1 inch = 40 ft.

NO.	DATE	REVISION	BY	CHKD.	APVLS.

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COSTICH ENGINEERING, D.P.C.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR, (ARCHITECT WHERE APPROPRIATE) TO ALTER AN ITEM ON THIS DOCUMENT. IN ANY WAY ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY", FOLLOWED BY HIS/HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATION, TO THE DOCUMENT.

STATE OF NEW YORK DANIEL T. HIRKALA 50449 LICENSED LAND SURVEYOR

PROJECT ENGINEER	M.O.R.
DRAWN BY	G.M.S.
BOUNDARY	G.M.S.
TOPOGRAPHIC	G.M.S.
DATE	6/1/2021
SCALE	1"=40'

COSTICH ENGINEERING
217 LAKE AVENUE
ROCHESTER, NY 14608
(585) 458-3020

- CIVIL ENGINEERING
- LAND SURVEYING
- LANDSCAPE ARCHITECTURE

TITLE OF PROJECT
1723/5256 AMHERST DEVELOPMENT

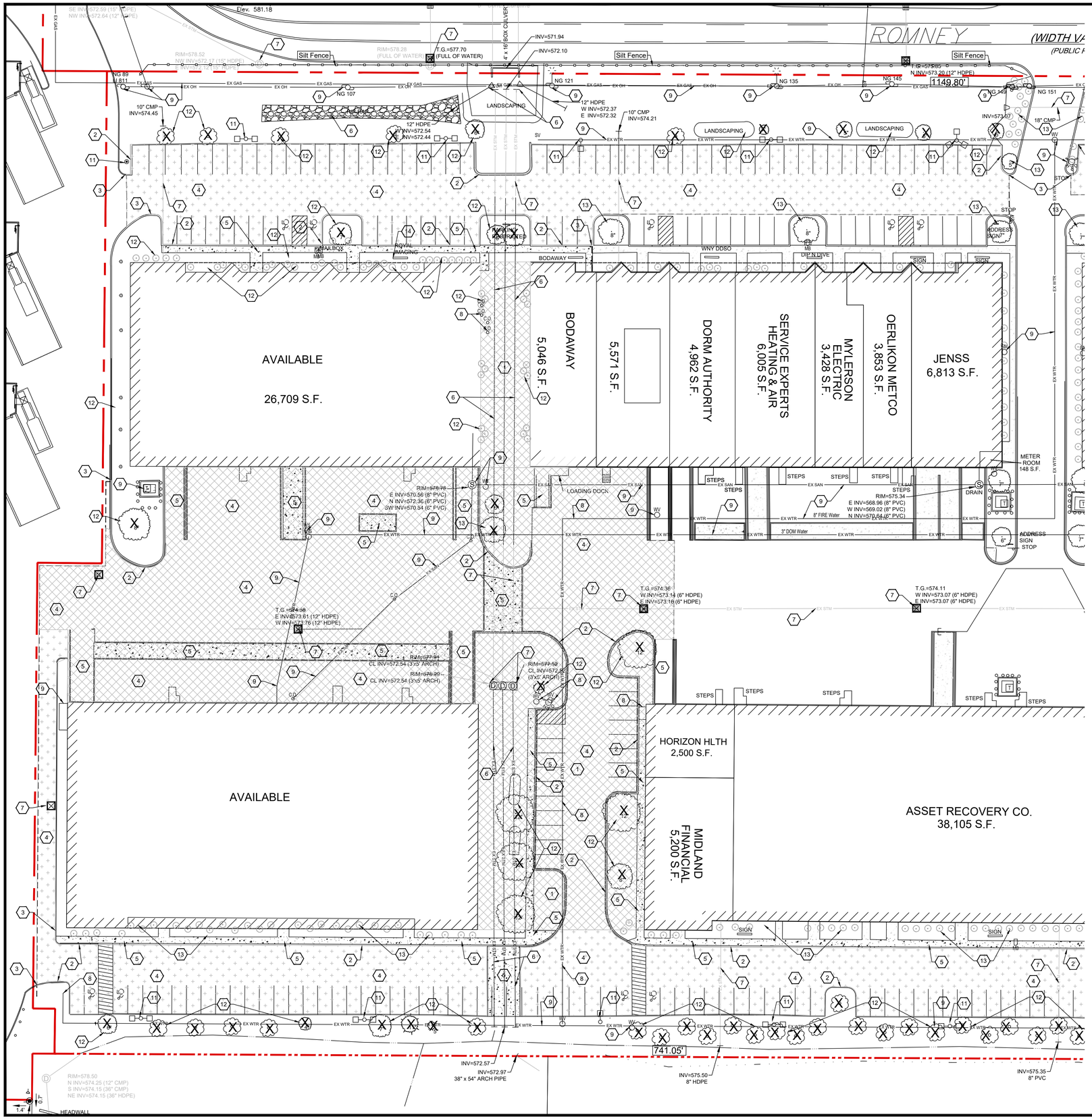
TITLE OF DRAWING
EXISTING FEATURES

LOCATION OF PROJECT: TAX PARCEL NO. 34.14-1-12.211
TOWN LOT 81, TOWNSHIP 13, RANGE 7,
HOLLAND LAND COMPANY'S SURVEY,
TOWN OF AMHERST, COUNTY OF ERIE, STATE OF NEW YORK

CLIENT: BENDERSON DEVELOPMENT CO., INC.
570 DELAWARE AVENUE
BUFFALO, NEW YORK 14202

DWG # 8084
VA110
SHEET 1 OF 1

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



GENERAL NOTES:
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5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
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12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

DEMOLITION LEGEND:

- Property Line
- EX ELEC — Existing Electric
- EX GAS — Existing Gas
- EX WTR — Existing Water
- EX OH — Existing Overhead Utility
- EX SAN — Existing Sanitary
- EX STM — Existing Storm
- EX TC — Existing Telecoms
- Saw Cut Line
- Silt Fence/Sock
- Inlet Protection
- X — Tree Removal
- Existing area to be removed.
- Existing Asphalt Pavement to be Removed. Sub-base to Remain.

DEMOLITION NOTES: (#)

1. Existing Area to be Cleared.
2. Existing Curb to be removed.
3. Limits of Curb Removal.
4. Existing Asphalt Pavement to be removed.
5. Existing Concrete Sidewalk/ Pavement/ Ramps to be removed.
6. Existing Storm Drainage/CB to be removed.
7. Existing Storm Drainage/CB to remain and be protected during Construction.
8. Existing Utility Structure to be removed.
9. Existing Utility Structure to remain and be protected during Construction.
10. Existing Pylon Sign to remain and be protected during Construction.
11. Existing Light Pole Base to be Relocated
12. Existing Landscaping to be Removed
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14. Existing Bollard/Signage to be removed.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	11.16.2023	DZ	SWPPP Update

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NORTH

811 Know what's below. Call before you dig.

PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

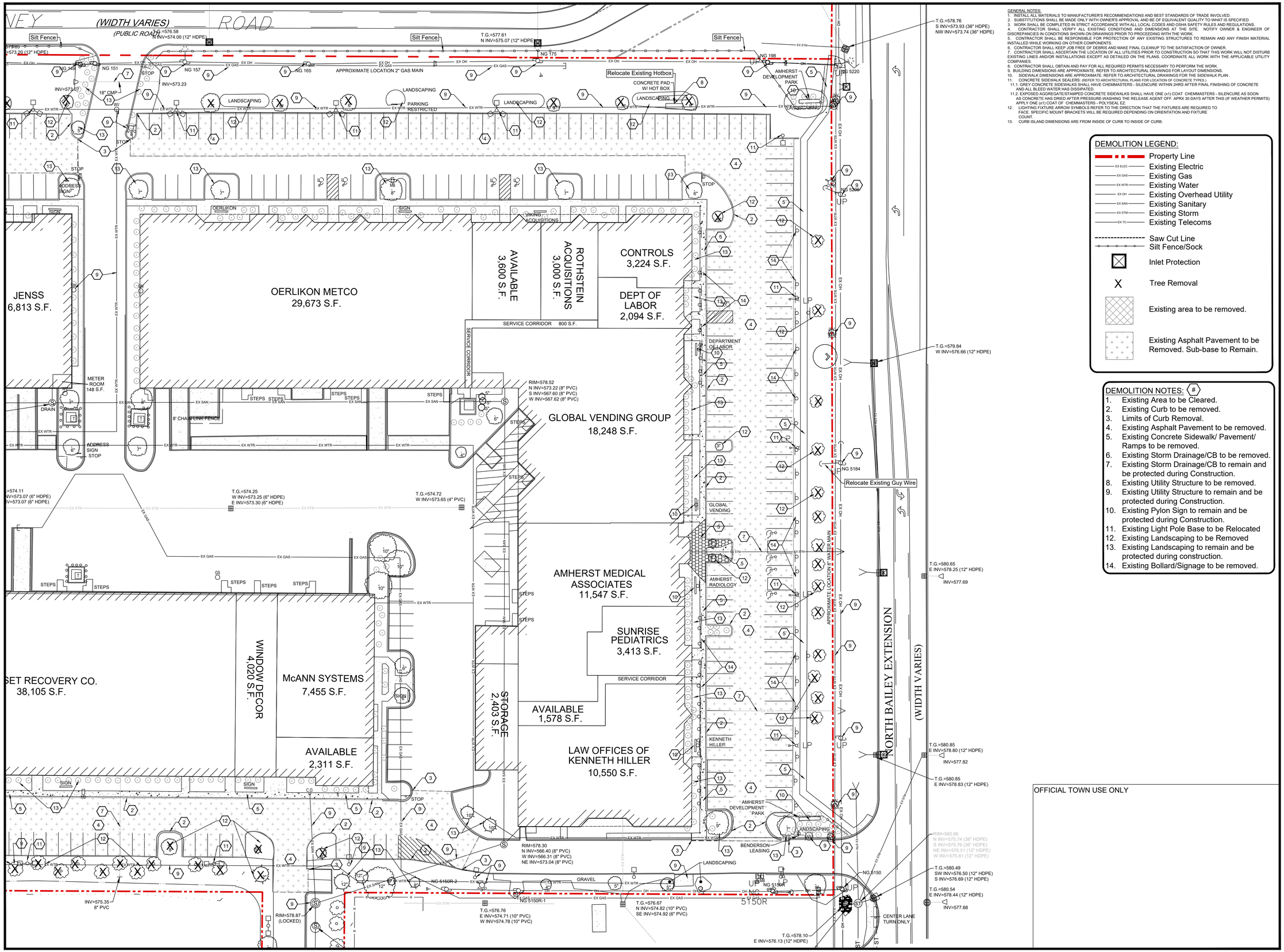
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY STATE OF NEW YORK 037709

TITLE: Demolition and Erosion Control Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO. C3.00

Attachment: SP-1988-11P_drawings_091924 (2825 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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No.	DATE	BY	REMARKS

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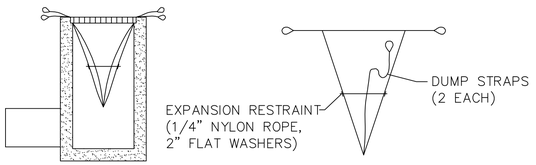
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY STATE OF NEW YORK

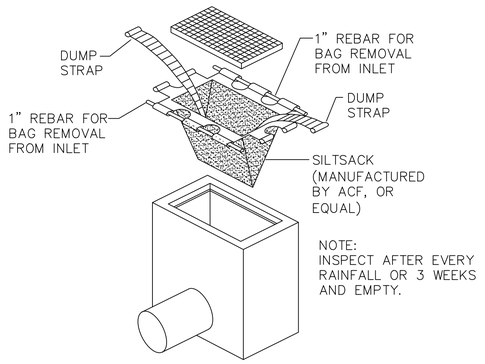
TITLE:
Demolition and Erosion Control Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C3.01

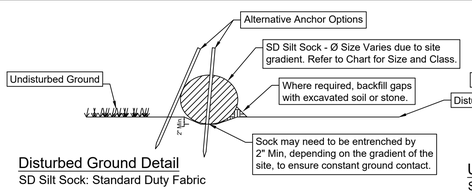
Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



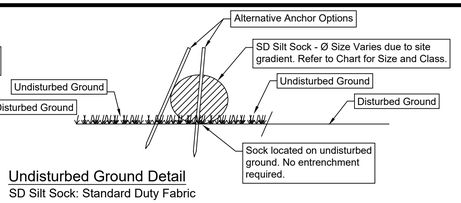
INSTALLATION DETAIL BAG DETAIL



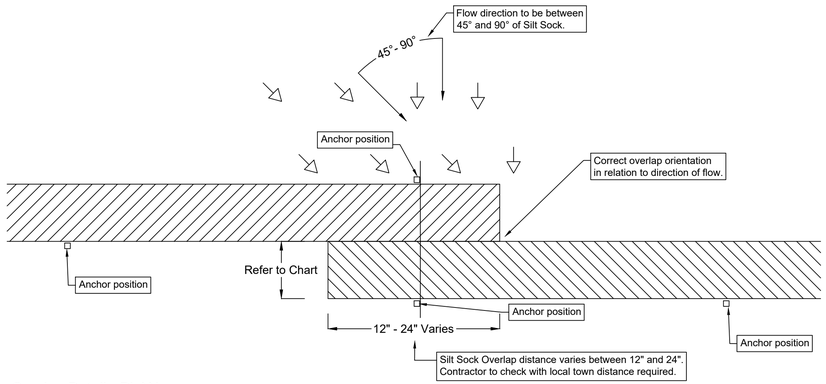
SILT SACK DETAIL
N.T.S.



Disturbed Ground Detail
SD Silt Sock: Standard Duty Fabric



Undisturbed Ground Detail
SD Silt Sock: Standard Duty Fabric



Overlap Detail - PLAN
1) Anchors required at the overlap section are to stay outside the Silt Sock and not pierce through the material. See alternative anchor positons in details above.

Anchor at Overlaped Ends - SECTION

Size & Class Chart			
	Diameter		
Gradient	8"	12"	18"
0 - 2%	30	55	75
2.1 - 5%	25	40	55
5.1 - 10%	15	30	40
10.1 - 33%	10	15	20
> 33%	5	10	15

SD SILT SOCK DETAIL
SD Silt Sock: Standard Duty Fabric

Notes:
1 - Do not use sock below the normal watermark or perpendicular to flow in river and where the maximum incline is greater than 50%.
2 - Contractors should be aware of federal, state and local laws, rules regulations or permit requirements for the use of Silt Socks on site.
3 - Sock should be positioned on the outline of the area to be protected, but must be installed between 45° to 90° from directions of flow.
4 - Sock may be required to be entrenched a minimum of 2" on disturbed ground to ensure constant ground contact.
5 - All gaps and ruts must be backfilled with soil or sock material.
6 - Sock overlap should be in the direction of the flow. Overlap amount will be between 12" and 24". Contractor to check with local town for requirements.
7 - If sediment collects to 1/2 the height of the sock, then a second sock may be stacked immediately up slope of the original instead of removing the sediment.
8 - Sock joint is where two sock sections meet on a level grade, overlap and adjoining ends, tightening the ends together, and anchoring through each end. Where two sections meet on un-level ground, j-hook higher elevated end, anchor, and begin new section just below. Back fill any gaps.
9 - Sock should be inspected and repaired as needed.
10 - If ruts begin under the sock they should be backfilled with soil and compacted so that the ground and sock have continuous contact.
11 - If sock rolls out of place, the sock should be repositioned and secured with additional anchors.
12 - Tears in the Sock fabric may be repaired by wrapping a new piece of fabric over the sock and securing, or by place a second sock immediately up slope with the required overlap beyond deformation.
13 - A section of sock should be replaced whenever it has weakened to such an extent that the efficiency is reduced or diminished. Weakening can occur because the natural mesh fabric breaks down over time of from being moved/dragged on site.
14 - Sock should be replaced when sediment has built up and has been removed three times.
15 - All sediment in disturbed area next to sock must be removed and correctly disposed of before the sock can be removed.
16 - When removing, cut sock open and spread the filler material around. The netting should be removed from site.
17 - Sock should be installed before works commence on site.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

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CONSULTANT

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ARCHITECT
PREPARED FOR
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570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL



TITLE: Demolition and Erosion Control Details

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO. C3.10

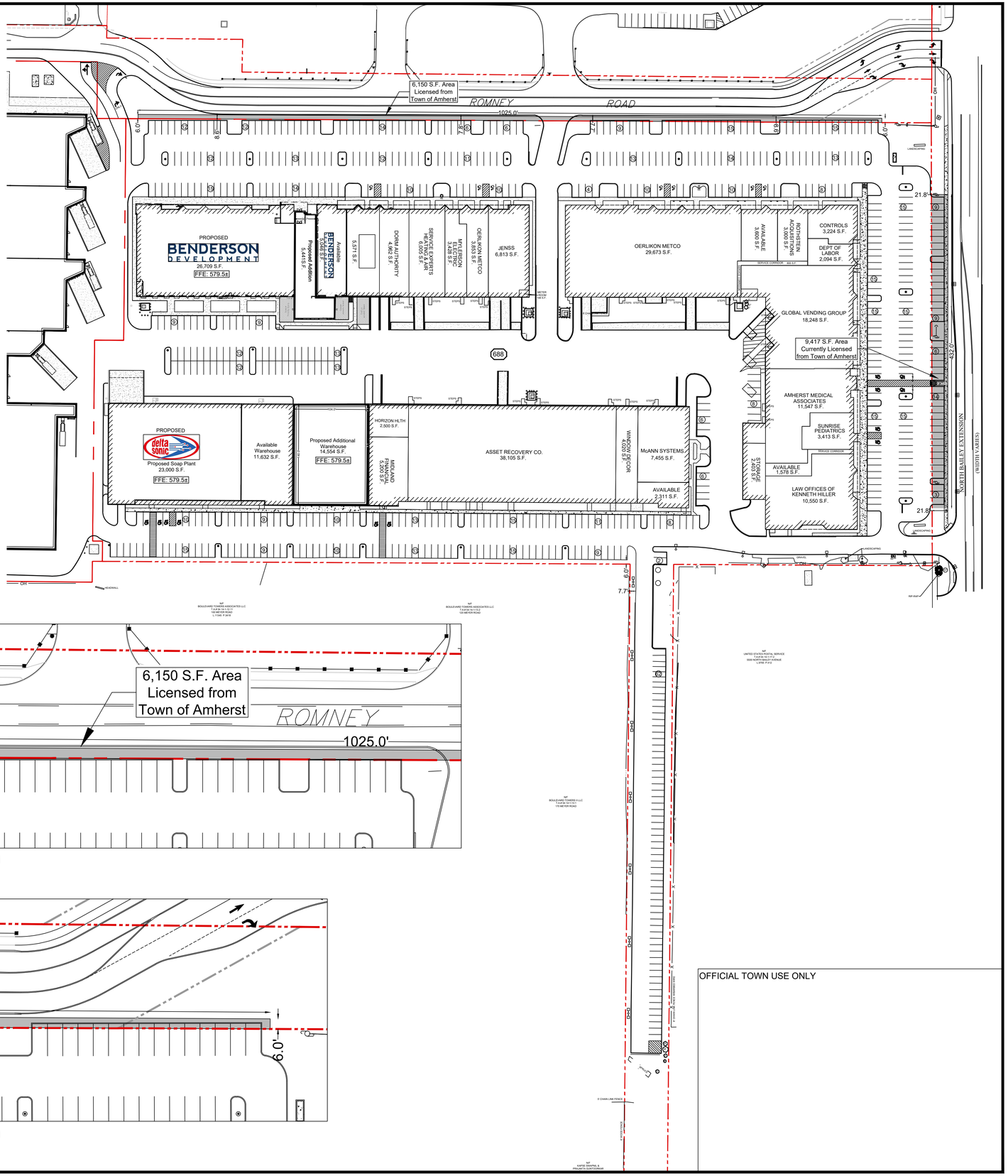
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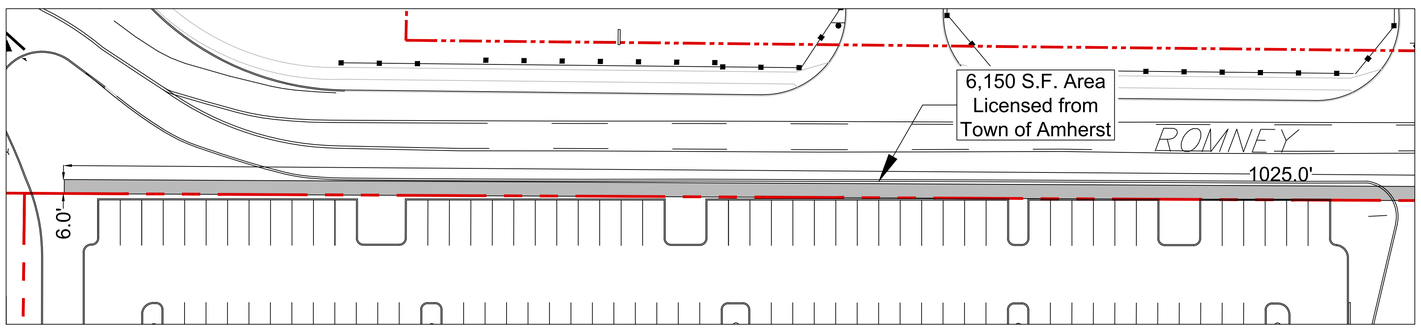
TOWN OF AMHERST, NY ZONING ANALYSIS		
	REQUIRED	PROVIDED
ZONED (RD)	R-D	R-D
MIN LOT AREA	1 AC	17.14 AC
MAX. BUILDING HEIGHT	65'	<30'
BUILDING SETBACKS:		
FRONT YARD	40'	102.3'
SIDE YARD	15'	16.7'
REAR YARD	15'	48.4'
PARKING / ROAD/AUX SETBACKS:		
FRONT - PROPERTY LINE	*25'	**0'
SIDE YARD	*10'	0'
REAR YARD	10'	**6.0'

* Area to be determined to be licensed from Town of Amherst
** - Variance Required
- Curb Island Dimensions are measured from the inside of curb.

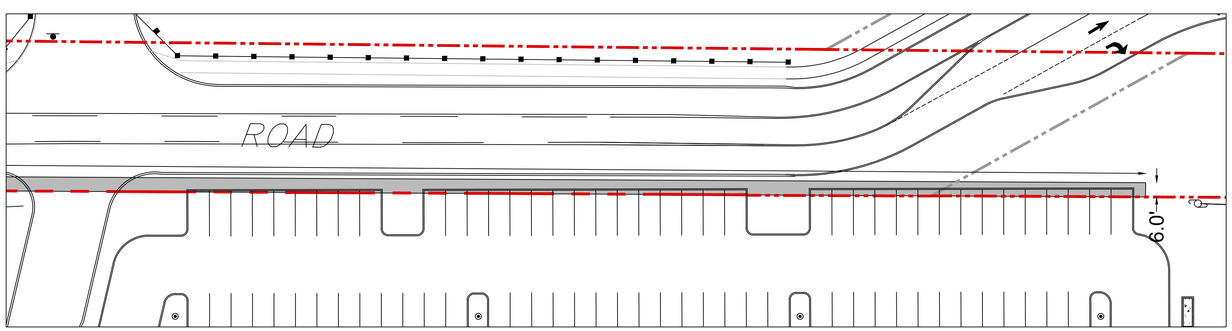
PROPOSED PARKING ANAYLSIS				
USE	CODE	S.F. USAGE	REQUIRED	PROVIDED
WAREHOUSE	1 / 1000 S.F.	181,343 SF	182 Spaces	
MEDICAL	1 / 150 S.F.	14,960 SF	100 Spaces	
RETAIL/OFFICE	1 / 200 S.F.	66,106 SF	331 Spaces	
TOTAL		262,409 SF	613 Spaces	688 Spaces
STALL SIZE			9' X 19'	9' X 19'

*Refer alternative parking study for site required parking





Proposed Licence Area
(1" = 30')



Proposed Licence Area
(1" = 30')

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

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PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

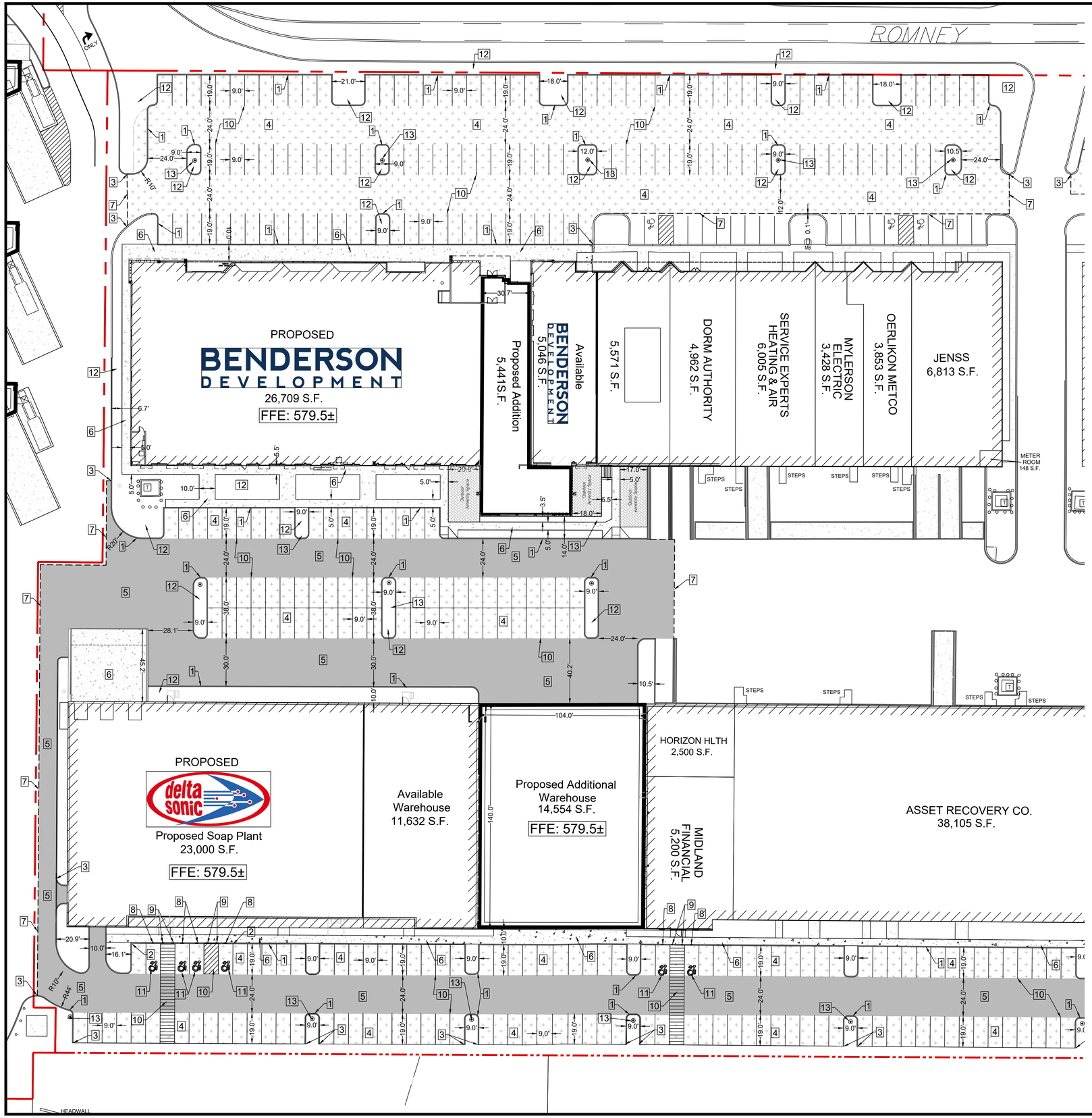


TITLE:

Overall
Site Plan

SCALE: 1:70
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C4.0

Attachment: SP-1988-11P drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



GENERAL NOTES:

1. INSTALL ALL MATERIALS TO MANUFACTURERS 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. CONTRACTOR SHALL 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 THE 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 EXCEPT AS DETAILED ON THE PLANS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
10. SIDEWALK DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN .
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12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

SITE LEGEND:

- Property line
- 6" Curb (typ).
- Proposed sign & pole
- Proposed Concrete Sidewalk
- Proposed Standard Duty Pavement
- Proposed Heavy Duty Pavement

* All curb radii are 3ft unless noted.
* Refer to General Notes, Concstruction Details and Architectural Plans for Concrete Sealer information.

SITE NOTES: #

1. Proposed 6" concrete Curb.
2. Proposed Flush Concrete Curb.
3. Match into Existing Curb or runout over 2'.
4. Proposed Standard Duty Pavement.
5. Proposed Heavy Duty Pavement.
6. Proposed Concrete Pavement/Sidewalk.
7. Match into Existing Pavement.
8. Proposed "Handicapped Parking Only" sign.
9. Proposed "No Parking" sign.
10. 4" Yellow Pavement Stripe (at 2' c-c in no parking zones).
11. Proposed White Pavement symbol (stop bar, directional arrows, accessibility symbol, text)
12. Proposed Landscape Area.
13. Proposed Light Pole Base
14. Proposed Mill and Overlay Asphalt Pavement

NB: All curb Radii to be 3' unless otherwise noted.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	11.16.2023	DZ	SWPPP Update

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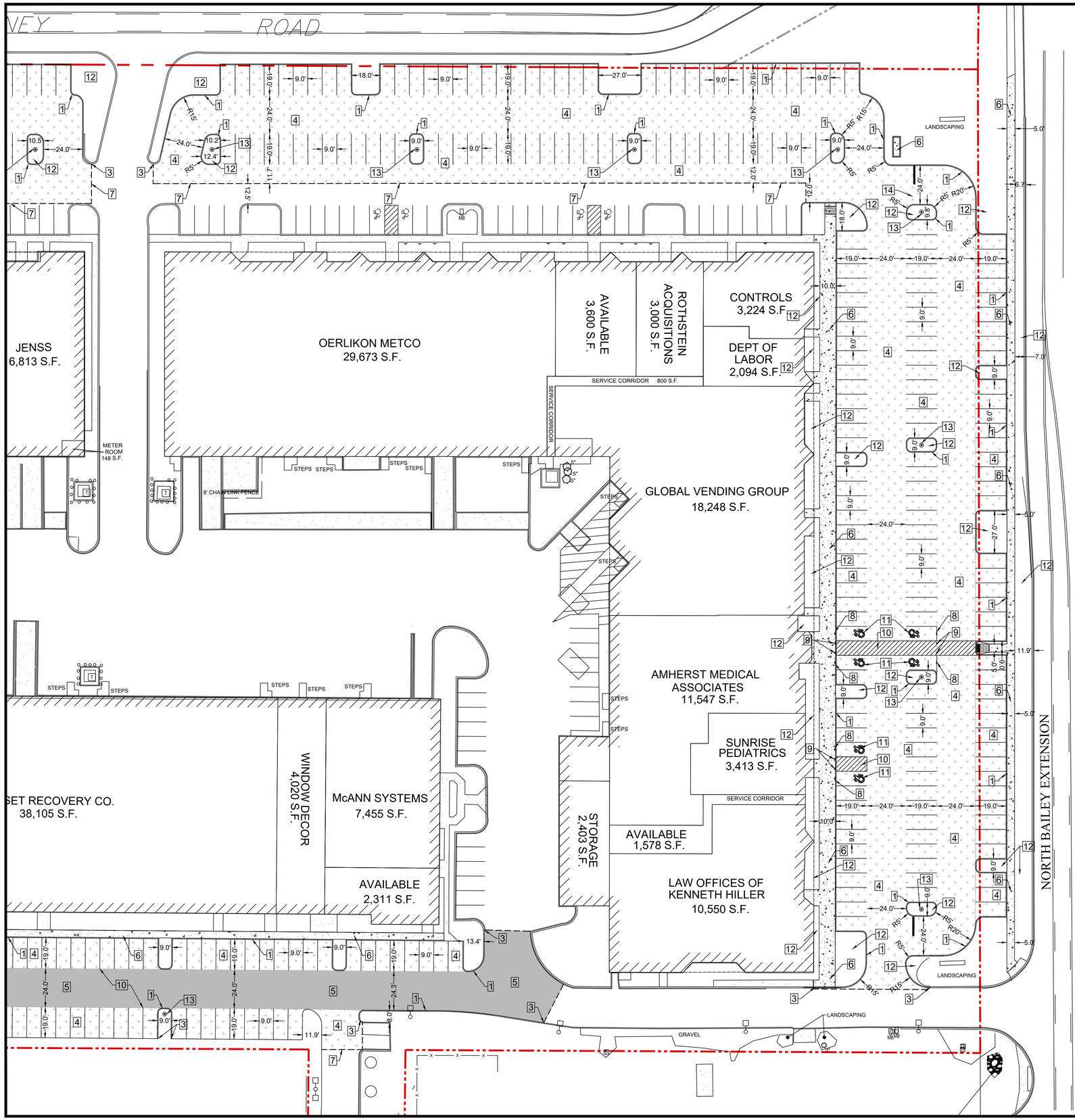
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY STATE OF NEW YORK

TITLE:
Detailed Site Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO. C4.10

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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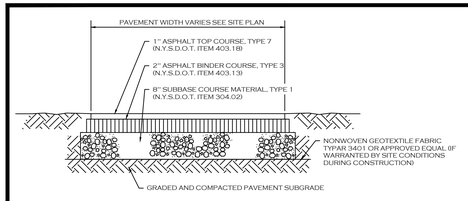
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 029139 STATE OF NEW YORK

TITLE: Detailed Site Plan (East)

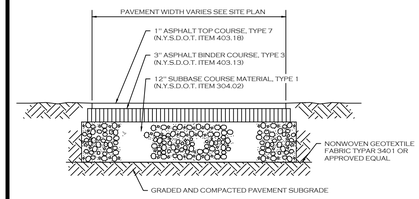
SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C4.11

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



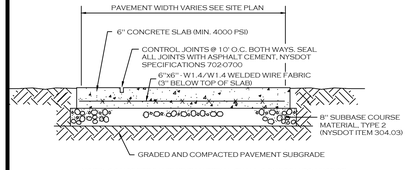
NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

STANDARD DUTY ASPHALT SECTION



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HEAVY DUTY ASPHALT SECTION

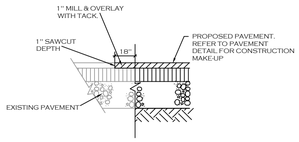


NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-3.

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REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES FOR SIDEWALKS.

CONCRETE PAVEMENT (INC DUMPSTER)



PAVEMENT TRANSITION DETAIL
(ASPHALT PAVEMENT)

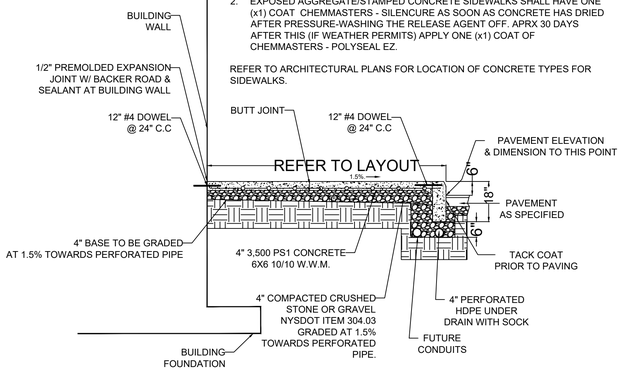
SIDEWALK CURB RAMP DETAIL

NOTES:
1. (1.5% SIDEWALK) GRADES ARE FOR REPRESENTATION ONLY. REFER TO LAYOUT FOR PROPOSED GRADES.

NOTES:
1. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3
2. BUTT JOINTS TO BE AT 5'-0" O.C. BOTH WAYS- SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.

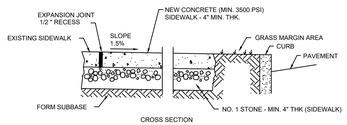
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BUILDING SIDEWALK DETAIL

CONTRACTOR TO VERIFY WITH OWNER ON CURB DETAIL



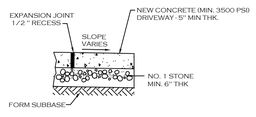
CROSS SECTION

NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C. BOTHWAYS - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
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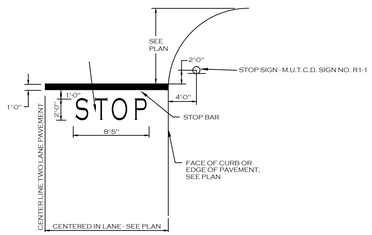
STANDARD CONCRETE SIDEWALK



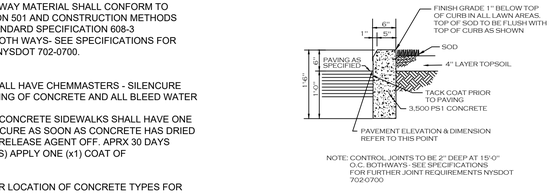
CROSS SECTION

NOTES:
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RPZ ENCLOSURE PAD

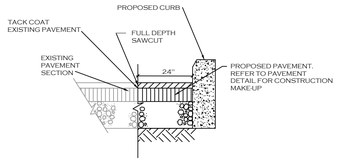


STOP BAR DETAIL

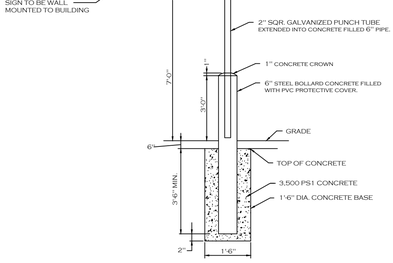


NOTE: CONTROL JOINTS TO BE 2" DEEP AT 15'-0" O.C. BOTHWAYS - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700

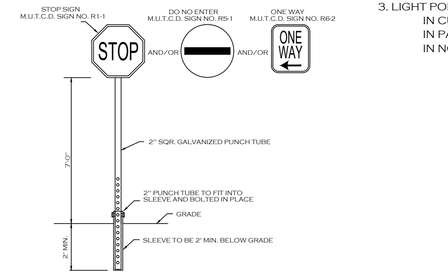
TYPE "A" CONCRETE CURB



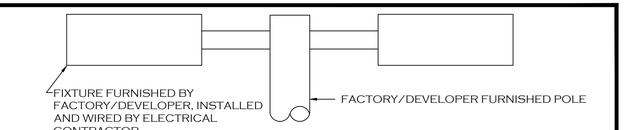
CURB AND PAVEMENT TRANISTION DETAIL

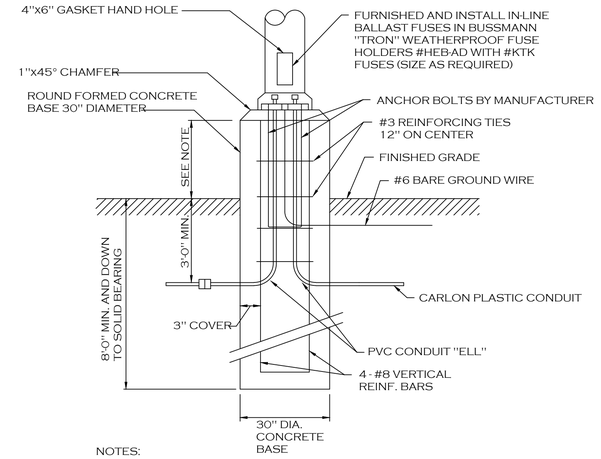


HANDICAP / NO PARKING SIGNS



"STOP" / "NO ENTRY" / "ONE WAY" SIGNS

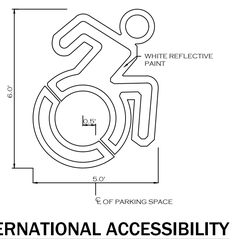




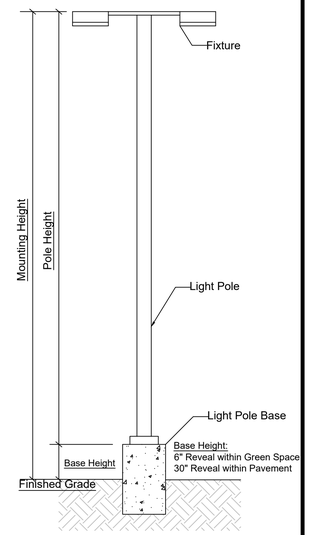
NOTES:
1. FOR LOCATIONS OF FOUNDATIONS SEE SITE PLAN
2. FOR LIGHT FIXTURE ORDERING INFORMATION SEE SITE LIGHTING PLAN
3. LIGHT POLE BASE EXPOSURE ABOVE GRADE SHALL BE:
IN CURBED ISLANDS: 6" ABOVE TOP OF CURB ELEVATION
IN PAVEMENT: 30" ABOVE GRADE
IN NON-CURBED GRASS AREAS: 6" ABOVE GRADE

LIGHT POLE FOUNDATION

PAINTED TRAFFIC ARROWS



INTERNATIONAL ACCESSIBILITY SYMBOL



Light Pole Mounting

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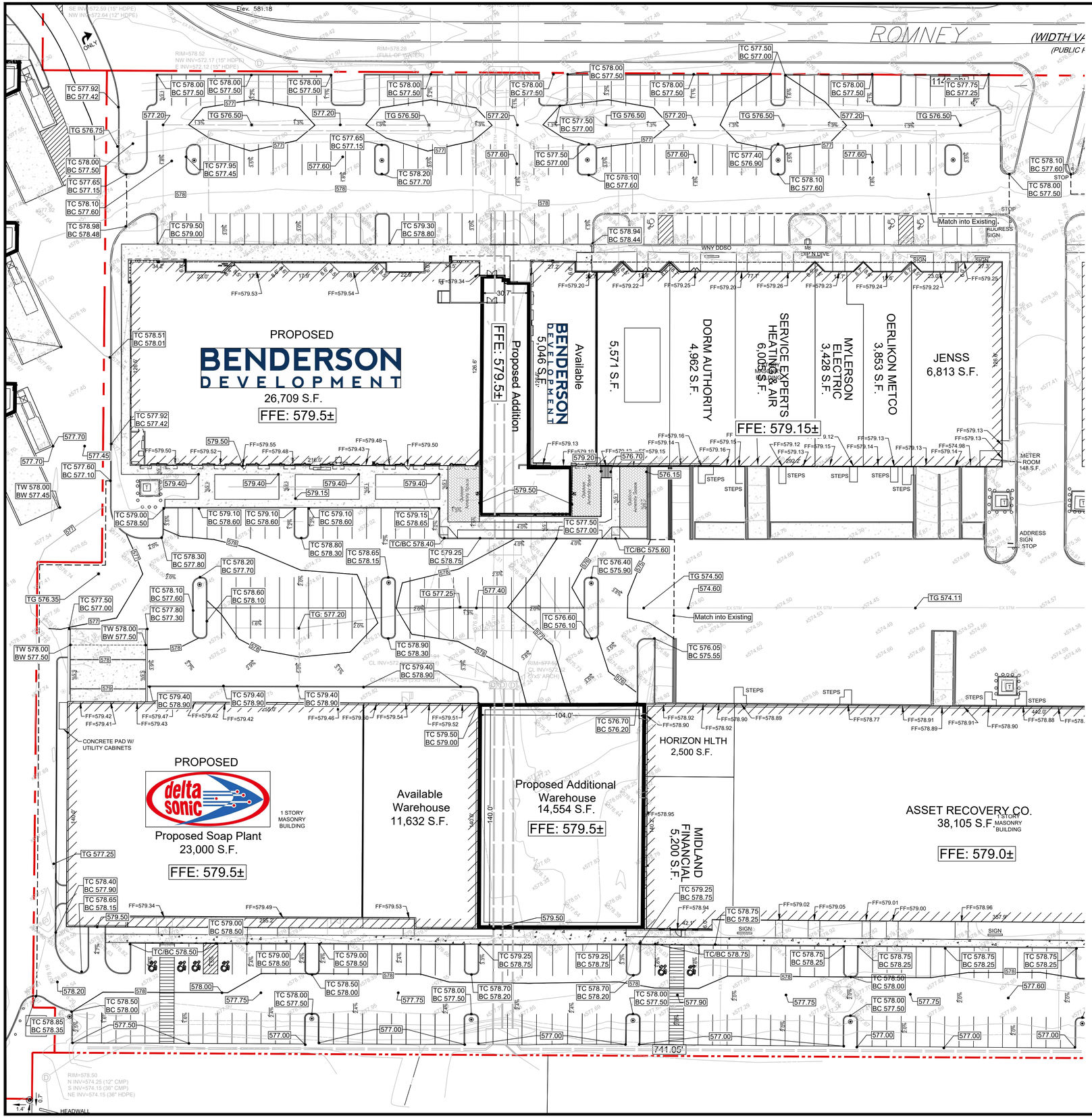
SEAL



TITLE: Construction Details

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C4.20

Attachment: SP-1988-11P_drawings_091924 (2825 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

GRADING LEGEND:

- Property Line
- 6" Curb (typ).
- TG ## — Catch Basin - Top of Grade
- ### — Proposed Contour Line
- ##% — Slope Direction

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	11.16.2023	DZ	SWPPP Update

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NORTH

811 Know what's below. Call before you dig.

PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 035109 STATE OF NEW YORK

TITLE:

Grading Plan (West)

SCALE: 1:30

DRAWN BY: DMZ

CHECKED BY: MAO

DATE: 11.08.2023

DRAWING NO. C5.00

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

ROAD

JENSS
6,813 S.F.

METER ROOM
148 S.F.

OERLIKON METCO
29,673 S.F.

FFE: 579.3±

8' CHAIN LINK FENCE

AVAILABLE
3,600 S.F.

ROTHSTEIN ACQUISITIONS
3,000 S.F.

CONTROLS
3,224 S.F.

DEPT OF LABOR
2,094 S.F.

SERVICE CORRIDOR 800 S.F.

GLOBAL VENDING GROUP
18,248 S.F.

FFE: 579.3±

AMHERST MEDICAL ASSOCIATES
11,547 S.F.

SUNRISE PEDIATRICS
3,413 S.F.

SERVICE CORRIDOR

AVAILABLE
1,578 S.F.

LAW OFFICES OF KENNETH HILLER
10,550 S.F.

SET RECOVERY CO.
38,105 S.F.

FFE: 579.0±

WINDOW DECOR
4,020 S.F.

McANN SYSTEMS
7,455 S.F.

AVAILABLE
2,311 S.F.

STORAGE
2,403 S.F.

LANDSCAPING

LANDSCAPING

GRAVEL

Match into Existing

TG 574.11

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No.	DATE	BY	REMARKS

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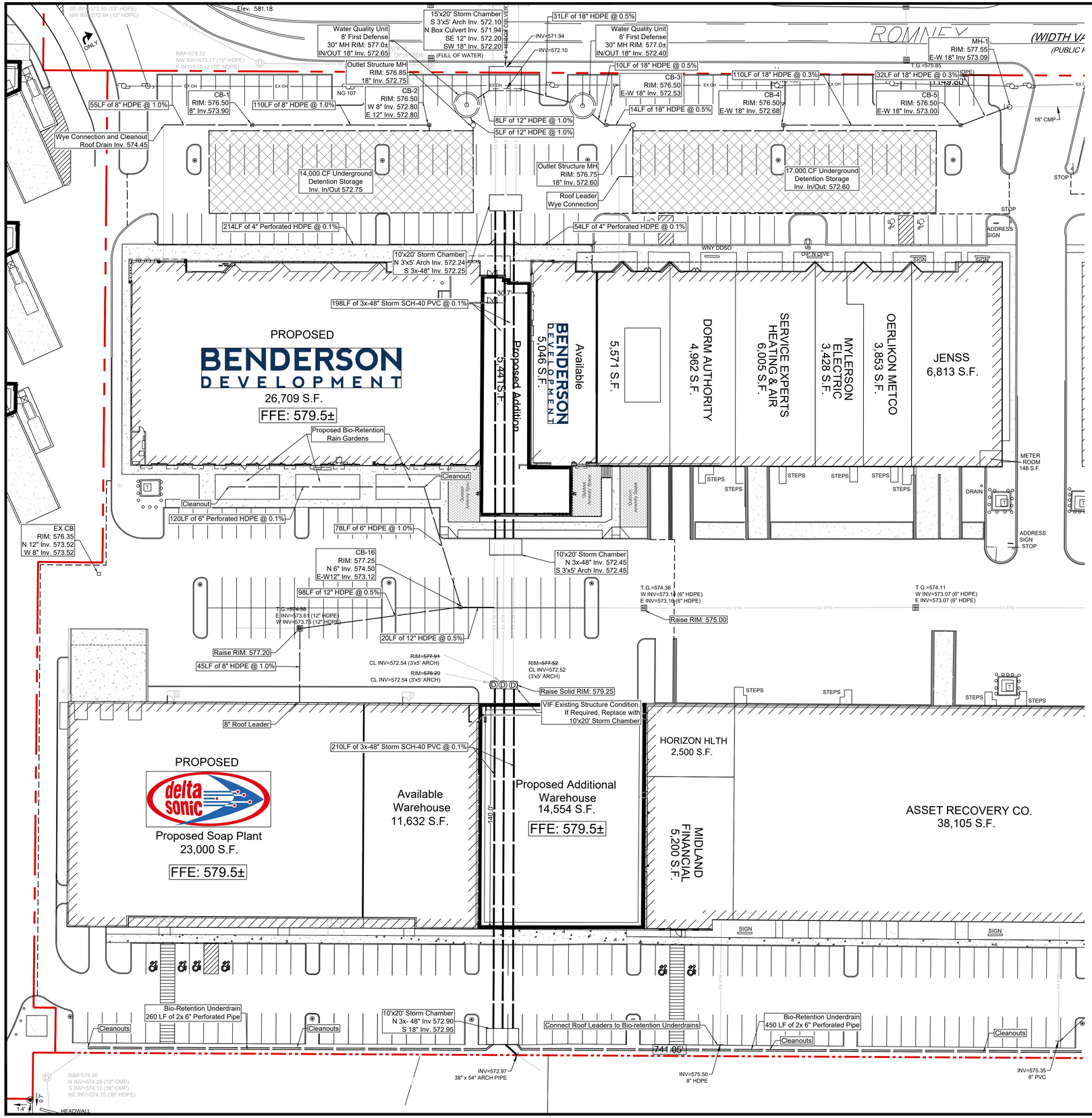
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 039709 STATE OF NEW YORK

TITLE:
Grading Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C5.01

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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SEAL

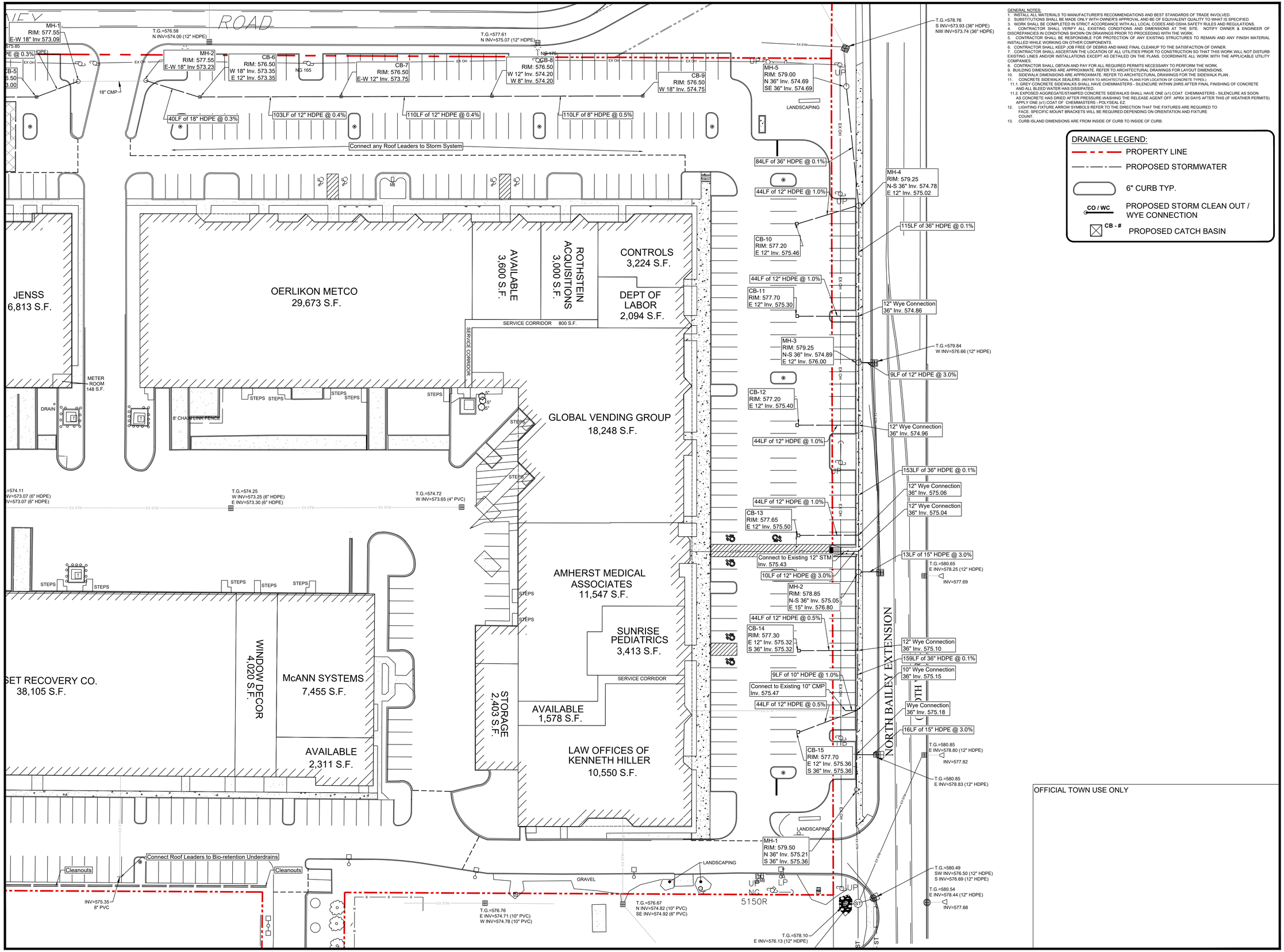
REGISTERED ARCHITECT JAMES ALLEN RUMSEY 039 STATE OF NEW YORK

TITLE:

Drainage Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C5.10

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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DRAINAGE LEGEND:

- PROPERTY LINE
- PROPOSED STORMWATER
- 6" CURB TYP.
- CO / WC — PROPOSED STORM CLEAN OUT / WYE CONNECTION
- CB - # — PROPOSED CATCH BASIN

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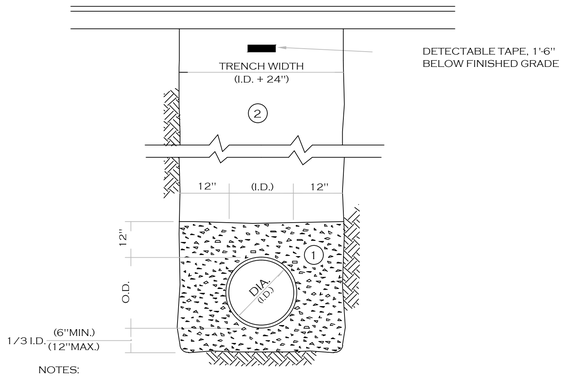
REGISTERED ARCHITECT JAMES ALLEN RUMSEY STATE OF NEW YORK

TITLE:

Drainage Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO. C5.11

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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)

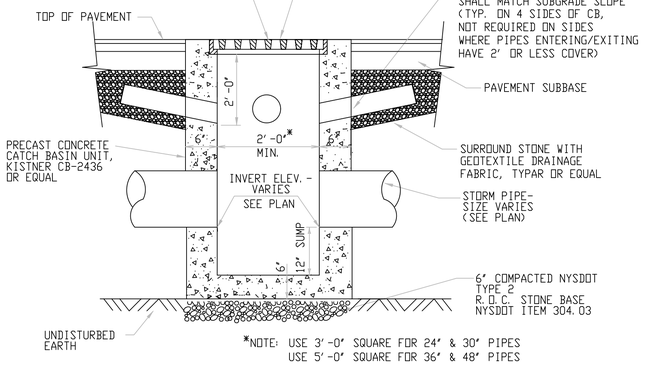
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

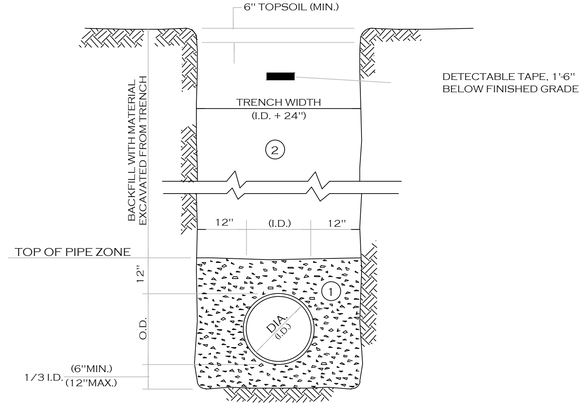
(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERAIL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

TRENCH SECTION IN PAVED AREAS



TYPICAL PRECAST CATCH BASIN



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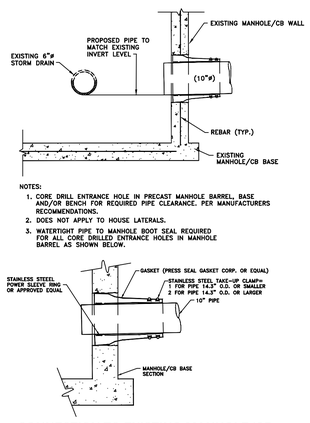
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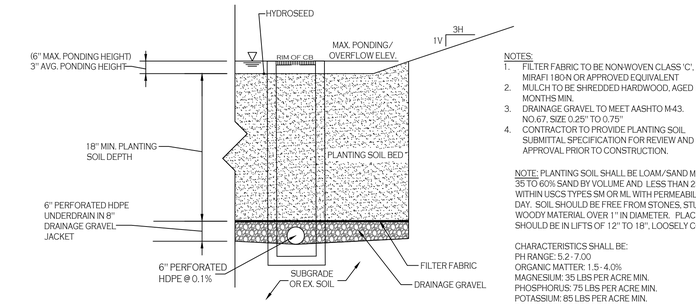
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

TRENCH SECTION IN UNPAVED AREAS



CONNECTION TO EXISTING MANHOLE/CB



BIORETENTION AREA - TYPICAL SECTION

NOTES:

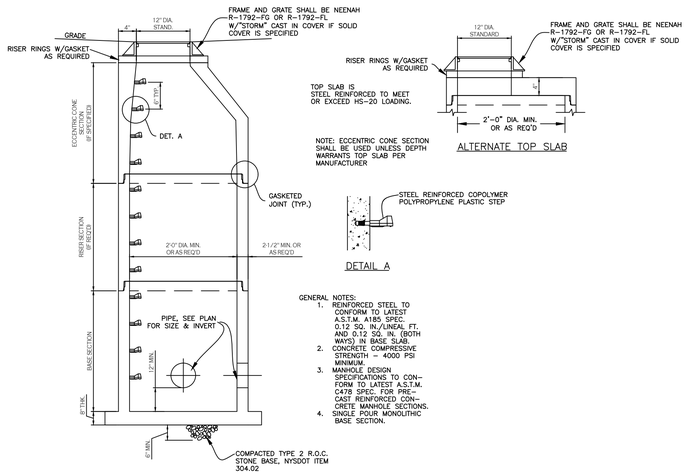
1. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180N OR APPROVED EQUIVALENT
2. MULCH TO BE SHREDDED HARDWOOD, AGED 12 MONTHS MIN.
3. DRAINAGE GRAVEL TO MEET AASHTO M-43, NO.67, SIZE 0.25" TO 0.75"
4. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

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.

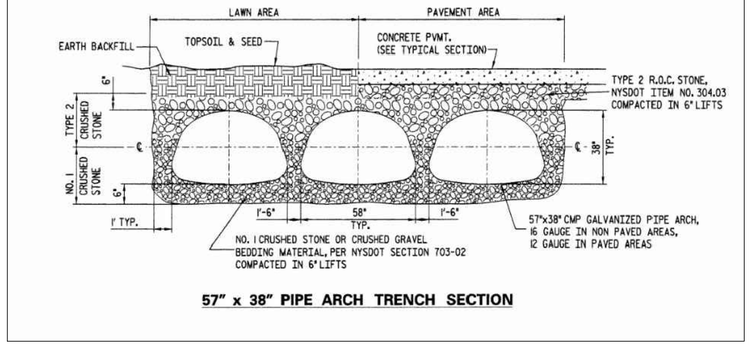
CHARACTERISTICS SHALL BE:
PH RANGE: 5.2 - 7.00
ORGANIC MATTER: 1.5 - 4.0%
MAGNESIUM: 35 LBS PER ACRE MIN.
PHOSPHORUS: 75 LBS PER ACRE MIN.
POTASSIUM: 85 LBS PER ACRE MIN.
SOLUBLE SALTS: 500 PPM
CLAY: 10 TO 25%
SILT: 30 TO 55%
SAND: 35 TO 60%

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



TYPICAL STORM MANHOLE DETAIL



57" x 38" PIPE ARCH TRENCH SECTION

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570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

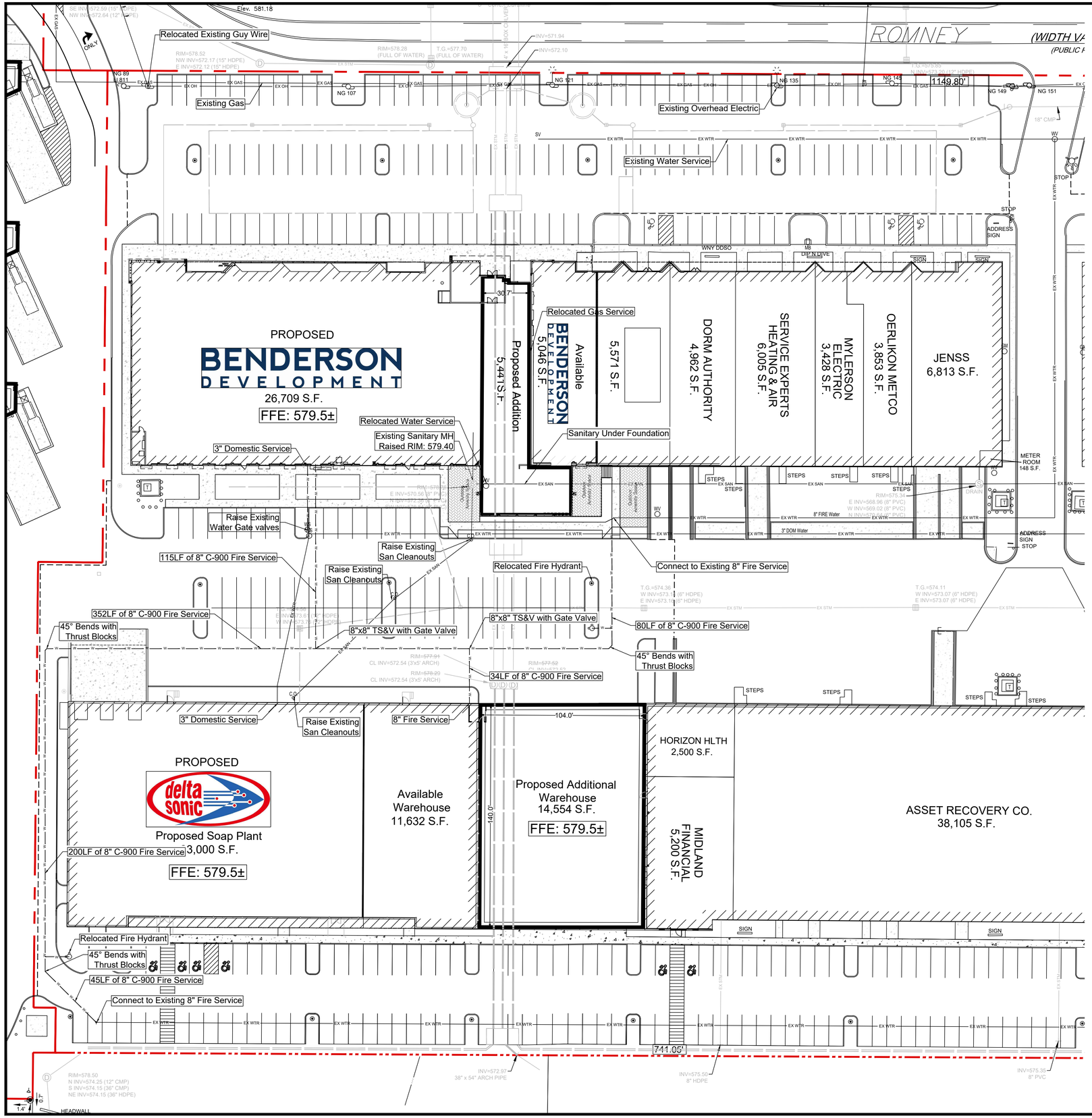
SEAL



TITLE:
Drainage Details

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C5.20

Attachment: SP-1988-11P drawings 091924 (2825 : SP-1988-11P, 6000-6020 N. Bailey Ave)



GENERAL NOTES:
1. INSTALL ALL MATERIALS TO MANUFACTURERS 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. CONTRACTOR SHALL 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 THE 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 EXCEPT AS DETAILED ON THE PLANS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
10. SIDEWALK DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN .
11. CONCRETE SIDEWALK SEALERS: (REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES.)
11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS - SILENCURE WITHIN 2HRS AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED.
11.2. EXPOSED AGGREGATE/STAMPED CONCRETE SIDEWALKS SHALL HAVE ONE (x1) COAT CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PRESSURE-WASHING THE RELEASE AGENT OFF. APRX 30 DAYS AFTER THIS (IF WEATHER PERMITS) APPLY ONE (x1) COAT OF CHEMMASTERS - POLYSEAL EZ.
12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

SANITARY SEWER NOTES:
1. THE CONTRACTOR IS ADVISED THAT A TRENCH SHIELD AND/OR SHORING DESIGNED IN ACCORDANCE WITH OSHA STANDARDS SHALL BE USED IN ALL OPEN TRENCH EXCAVATIONS.
2. ANY CONTRACTOR AND/OR PLUMBER PERFORMING WORKING IN A CONFINED SPACE (ie MANHOLES, WETWELLS, CHAMBERS) OWNED BY THE TOWN MUST CERTIFY TO THE TOWN THAT THEY HAVE THEIR OWN CONFINED SPACE ENTRY PROGRAM THAT MEETS OR EXCEEDS OSHA'S REGULATIONS. CERTIFICATION MUST BE NOTARIZED BY A NOTARY PUBLIC.
3. CONSTRUCTION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE TOWN AND NEW YORK STATE CODES.
4. IF ANY PROPOSED SEWER LATERAL RUNS UNDER PAVED AREA AND HAS LESS THAN 4' COVER, CONCRETE ENCASEMENT IS REQUIRED. IF MORE THAN 4' COVER IS PROVIDED IN PAVED AREAS SELECT FILL IS REQUIRED.
5. THE CONTRACTOR MUST NOTIFY THE TOWN ENGINEER OFFICE AND THE PLUMBING INSPECTOR 24 HOURS IN ADVANCE OF CONSTRUCTION.
6. CLEANOUTS ARE REQUIRED EVERY 100' AND AT CHANGE IN DIRECTION.
7. ABANDONED SANITARY SEWER CONNECTIONS FROM THE SITE, IF ANY, REQUIRE PROOF OF A DISTRICT PERMIT FOR DISCONNECTION PRIOR TO THE NEW CONNECTION BEING MADE.

UTILITY NOTES:
1. PROVIDE FITTINGS AND BLOCKING AS NECESSARY AT ALL BENDS IN WATER LINES.
2. WHERE UTILITIES ARE INSTALLED IN EXISTING PAVEMENT, LANDSCAPED AREA ETC. ANY ITEMS REMOVED/DAMAGED SHALL BE REPLACED IN KIND.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS NECESSARY: STATE, COUNTY, AND TOWN.
4. WATER MAINS TO HAVE MINIMUM 5FT COVER.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	11.16.2023	DZ	SWPPP Update

SPECIAL INFORMATION:

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NOTICE

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Know what's below. Call before you dig.

PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

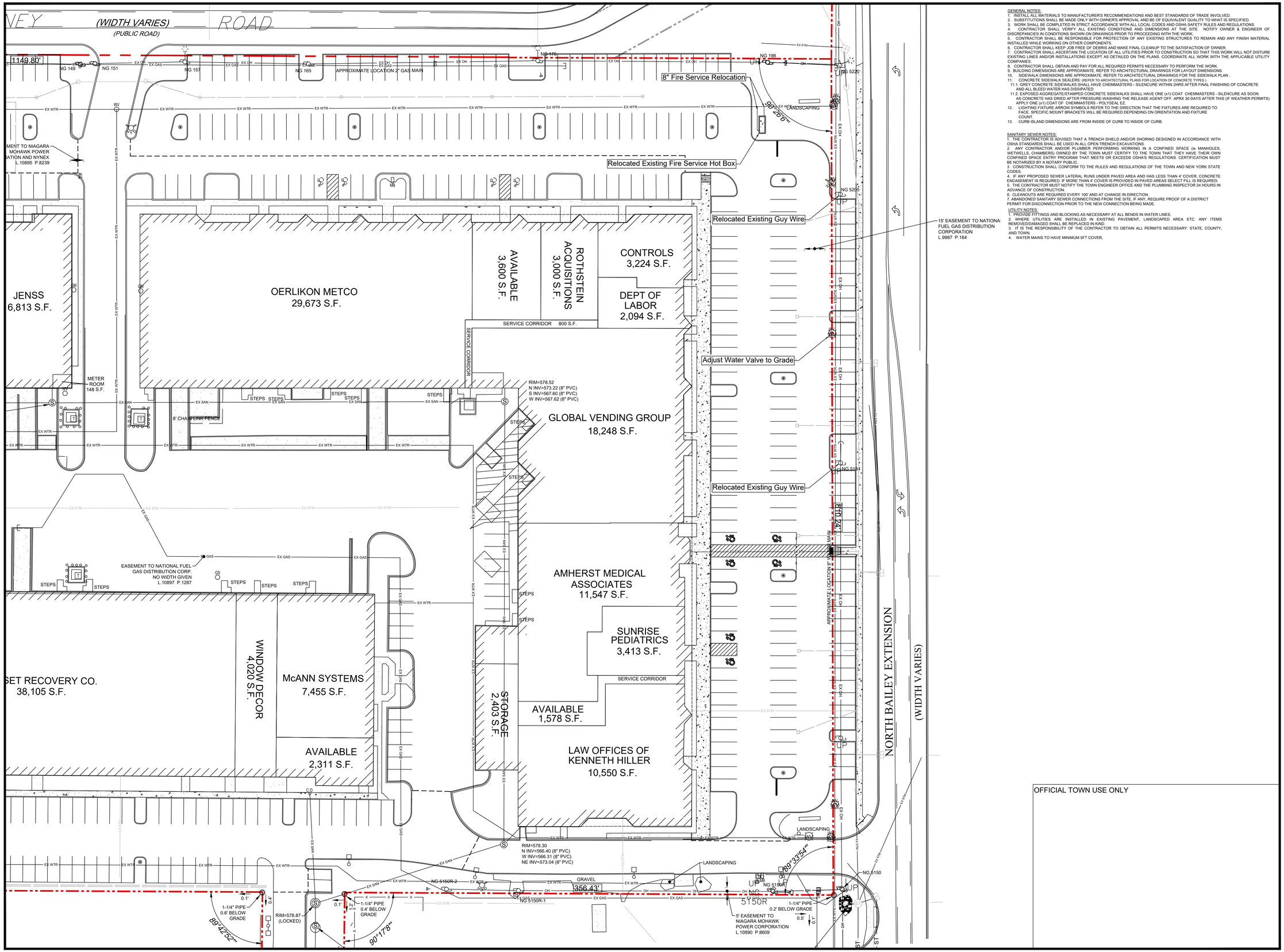


TITLE:

Utility Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C6.00

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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No.	DATE	BY	REMARKS

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NORTH

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6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

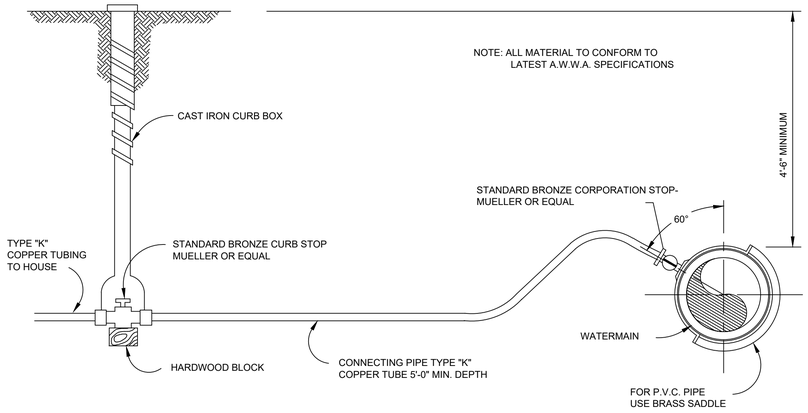
SEAL



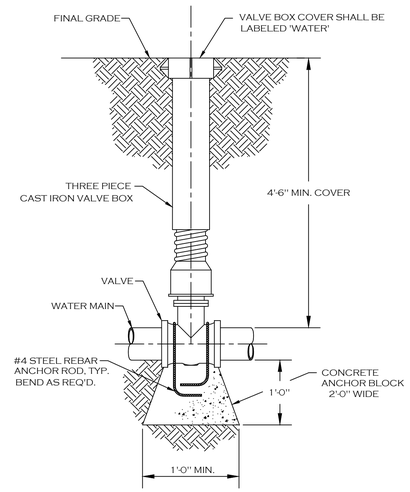
TITLE:
Utility Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO.: C6.01

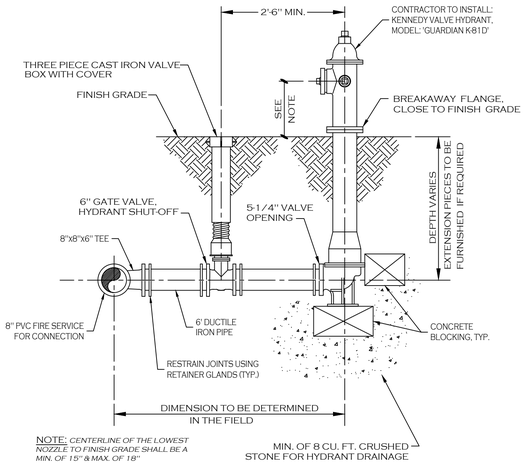
Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



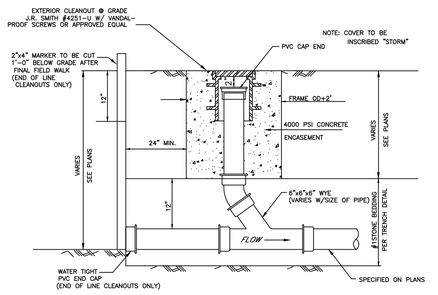
TYPICAL WATER SERVICE LINE INSTALLATION



TYPICAL GATE VALVE DETAIL

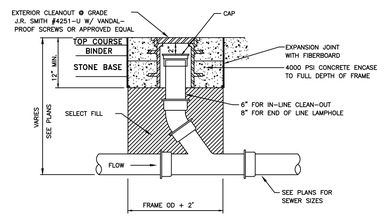


TYPICAL FIRE HYDRANT ASSEMBLY DETAIL



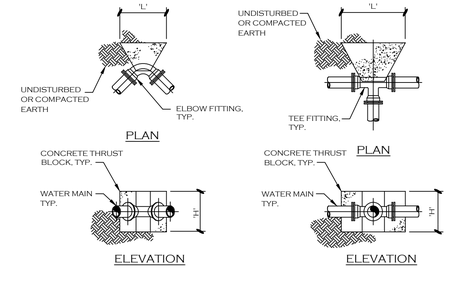
CLEANOUT IN LANDSCAPED AREAS

NOT TO SCALE



CLEANOUT IN PAVED 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

WATER MAIN

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

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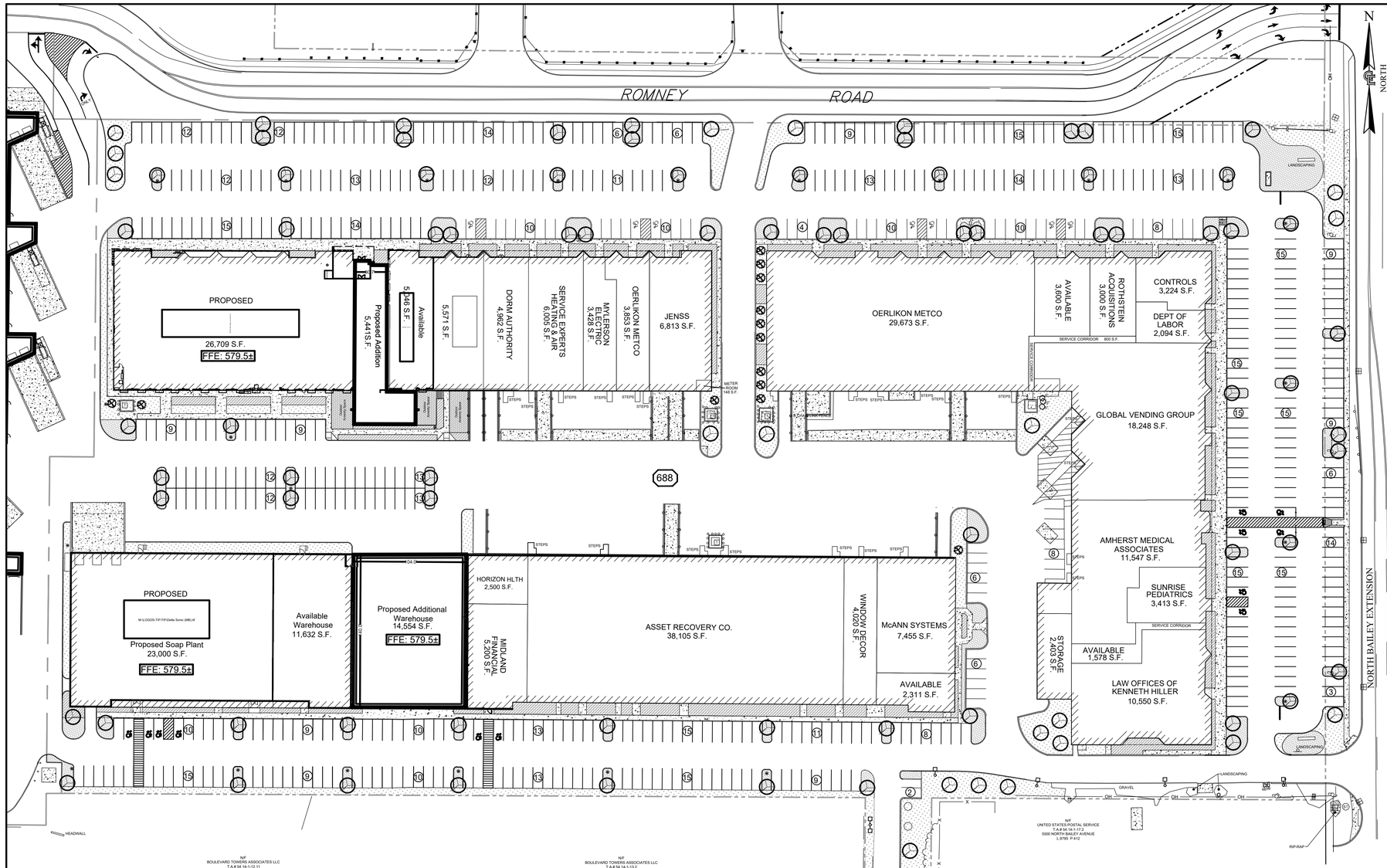
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 031709 STATE OF NEW YORK

TITLE:
Utility Details

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C6.10

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



FOUNDATION PLANT PALETTE

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	MATURE SIZE
EVERGREEN TREES						
	To	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	6-8' HT.	BB	HT. 15', SP. 3-4'
ORNAMENTAL TREES						
	Ag	AMELANCHIER GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	6-8' HT.	BB	HT. 15-25', SP. 15-25'
	Cf	CORNUS FLORIDA	FLOWERING DOGWOOD	6-8' HT.	BB	HT. 15-30', SP. 15-30'
SHRUBS						
	Ig	ILEX GLABRA 'STRONG BOX'	STRONGBOX INKBERRY HOLLY	HT. 24" MIN	BB	HT. 2-3', SP. 2-3'
	Iv	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	HT. 24" MIN	CONT.	HT. 3-5', SP. 4-6'
	Ra	ROSA 'RADTKO'	DOUBLE KNOCKOUT ROSE	NO. 3 (24" MIN)	CONT.	HT. 2-5', SP. 6-8'
	Tx	TAXUS X MEDIA 'DENSIFORMIS'	DENSE SPREADING YEW	HT. 24" MIN	CONT.	HT. 3-4', SP. 4-6'
	Vi	VIBURNUM CARLESII 'KOREAN SPICE'	KOREAN SPICE VIBURNUM	HT. 24" MIN	CONT.	HT. 3.5', SP. 4-5'
PERENNIALS & GRASSES						
	Ca	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	NO. 2	CONT.	HT. 4-6', SP. 2'-3'
	Ha	HAKONECHLOA MACRA 'ALL GOLD'	ALL GOLD JAPANESE FOREST GRASS	NO. 3	CONT.	HT. 1.5', SP. 1.5'
	Hm	HEUCHERA MICRANTHA 'PALACE PURPLE'	CORAL BELLS PALACE PURPLE	NO. 2	CONT.	HT. 2, SP. 1.5'
	Nf	NEPETA HYBRID 'CAT'S PAJAMAS'	CAT'S PAJAMA'S CATMINT	NO. 3	CONT.	HT. 18-20" SP. 18-20"
	Pv	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCHGRASS	NO. 2	CONT.	HT. 3-4', SP. 3-4'
	Ss	SEDUM 'AUTUMN JOY'	AUTUMN JOY STONE CROP SEDUM	NO. 2	CONT.	HT. 18-24", SP. 18-24"

ABBREVIATIONS:
BB=BALLED & BURLAPPED BR=BARE ROOT
CAL.=CALIPER IN INCHES CONT.=CONTAINER
HT.=HEIGHT NO.#=GALLON SIZE
SP.=SPREAD

NOTES:
- CALIPER TO BE MEASURED 6" ABOVE GRADE
- PLANT SYMBOLS REPRESENT 2/3 MATURE SIZE

PARKING LOT PLANT PALETTE

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	MATURE SIZE
EVERGREEN TREES						
	Pm	PSUEDOTSUGA MENZIESII	DOUGLAS FIR	6-7' HT.	BB	HT. 40-80', SP. 12-20'
	To	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	6-8' HT.	BB	HT. 15', SP. 3-4'
DECIDUOUS TREES						
	Gt	GLEDITSIA TRIACANTHOS INERM.	THORNLESS HONEY LOCUST	2.5-3" CAL.	BB	HT. 60-80', SP. 60-80'
	Zs	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2.5-3" CAL.	BB	HT. 45', SP. 15'
SHRUBS						
	Am	ARONIA MELANOCARPA	LOWSCAPE MOUND CHOKEBERRY	NO. 3 (24" MIN)	CONT.	HT. 1-2', SP. 1.5-2'
	Iv	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	HT. 24" MIN	CONT.	HT. 3-5', SP. 4-6'
	Rm	ROSA MEIGALPIO	RED DRIFT GROUNDCOVER ROSE	NO. 3 (24" MIN)	CONT.	HT. 1-1.5', SP. 2-2.5'
	Ra	ROSA 'RADTKO'	DOUBLE KNOCKOUT ROSE	NO. 3 (24" MIN)	CONT.	HT. 2-5', SP. 6-8'
	Sj	SPIRAEA JAPONICA 'GOLDMOUND'	GOLDMOUND SPIREA	HT. 24" MIN	CONT.	HT. 2-3', SP. 4'
	Tx	TAXUS X MEDIA 'DENSIFORMIS'	DENSE SPREADING YEW	HT. 24" MIN	CONT.	HT. 3-4', SP. 4-6'
PERENNIALS & GRASSES						
	He	HEMEROCALLIS X 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	NO. 1	CONT.	HT. 1-1.5', SP. 1-1.5'
	Ir	IRIS PALLIDA 'VARIEGATA'	VARIEGATED SWEET IRIS	BULB	CONT.	HT. 2', SP. 1'
	Nf	NEPETA HYBRID 'CAT'S PAJAMAS'	CAT'S PAJAMA'S CATMINT	NO. 3	CONT.	HT. 18-20" SP. 18-20"
	Pc	PANICUM VIRGATUM 'CHEYENNE SKY'	CHEYENNE SKY SWITCHGRASS	NO. 3	CONT.	HT. 2-3', SP. 1.5-2'
	Pe	PENNISETUM ALOPECUROIDES 'LEMON SQUEEZE'	LEMON SQUEEZE FLOWERING FOUNTAIN GRASS	NO. 3	CONT.	HT. 2.5-3', SP. 2-2.5'

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NOTES:
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- PLANT SYMBOLS REPRESENT 2/3 MATURE SIZE

PROPOSED LAWN

AREAS TO RECEIVE 4-6" TOPSOIL AND PERMANENT LAWN HYDRO SEED MIX

NOTE:
ALL DISTURBED LAWN AREAS SHALL RECEIVE 4-6" TOPSOIL AND PERMANENT LAWN HYDROSEED MIX.

SEED MIX:

	LBS/ACRE	%BY PURITY	%GERM
'Pennfine' Perennial Rye Grass	35	85	85
'Pennlawn' Red Fescue	35	97	80
'Baron' and 'Midnight' Kentucky Bluegrass	30	85	80

SEEDING RATE: 6.0 POUNDS PER 1,000 SQUARE FEET

MULCH: STRAW OR WOOD FIBER MULCH APPLIED AT THE RATE OF TWO TONS PER ACRE

STARTING FERTILIZER: 5:10:10 AT 20 POUNDS PER 1,000 SQUARE FEET

FOR FALL OR EARLY WINTER, SEED WITH CERTIFIED "AROOSTOCK" WINTER RYE (CEREAL RYE) AT 100 POUNDS PER ACRE.

TREE LEGEND

PROPOSED DECIDUOUS AND EVERGREEN TREES

LANDSCAPE NOTES

1. LANDSCAPE CONTRACTOR SHALL SECURE CURRENT PLANS AND SPECIFICATIONS FOR PROPER CONSTRUCTION METHODS AND MATERIAL OF ALL LANDSCAPING PRIOR TO COMMENCING WORK.
2. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60.1 (LATEST EDITION).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF.
4. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANT MATERIAL AND SHRUB-BEDS. CONTACT OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL. LOCATIONS SHOWN ON THE PLANS CONVEY DESIGN INTENT ONLY. ACTUAL LOCATIONS WILL BE AS DIRECTED BY THE LANDSCAPE ARCHITECT AT THE TIME OF INSTALLATION.
5. THE CONTRACTOR IS HEREBY NOTIFIED THAT UNDERGROUND UTILITIES EXIST. SHOULD LOCATION OF TREES BE WITHIN 5' OF UNDERGROUND UTILITIES, RELOCATE SAID TREES TO A MINIMUM OF 5' FROM BALL TO UTILITIES.
6. SHOULD LOCATION OF TREES BE WITHIN 20' OF OVERHEAD WIRES, RELOCATE SAID TREES TO A MINIMUM OF 20' FROM WIRES.
7. ALL TREES AND SHRUBS SHALL RECEIVE A 3" LAYER OF BLACK SHREDDED HARDWOOD BARK MULCH.
8. ALL PLANTS MUST BE HARDY UNDER CLIMATE CONDITIONS THAT EXIST AT THE PROJECT SITE AND GROWN AT A NURSERY AT THE SAME HARDINESS ZONE AS THE PROJECT LOCATION.
9. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER OR OWNER'S PROJECT LANDSCAPE ARCHITECT.
10. ANY PLANT WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY , AND SIZE MEETING ALL PLANT LIST SPECIFICATIONS.
11. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANT MATERIALS (INCLUDING, BUT NOT LIMITED TO WATERING, SPRAYING, MULCHING, FERTILIZING, AND REMOVAL OF STAKES AND GUYS) AND NEWLY ESTABLISHED LAWN AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
12. ALL AREAS DISTURBED BY UTILITY INSTALLATION AND SITE GRADING ACTIVITY SHALL RECEIVE 6" APPROVED TOPSOIL (TO A COMPACTED DEPTH OF 6", UNLESS OTHERWISE SPECIFIED BY THE GOVERNING MUNICIPALITY) BE FINE GRADES, SEEDED, MULCHED, AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
13. ANY IRRIGATION COMPONENT DAMAGED DURING SITE OR LANDSCAPE RENOVATIONS MUST BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
14. A ONE YEAR GUARANTEE SHALL BE PROVIDED ON ALL PLANT MATERIALS FROM THE DATE OF PROVISIONAL ACCEPTANCE.
15. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 3 PARTS TOPSOIL AND 1 PART COMPOST THOROUGHLY MIXED.
16. STAKE TREES IMMEDIATELY AFTER PLANTING.
17. LOCATIONS OF EXISTING BURIED UTILITIES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE WORK AREA. IF ANY TREE IS LOCATED CLOSER THAN 5' TO AN UNDERGROUND UTILITY, IT SHALL BE RELOCATED TO A LOCATION THAT IS A MINIMUM OF 5' AWAY AS MEASURED FROM THE ROOTBALL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, AND SITE APPURTENANCES, ETC., WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.

UDIG-NY 811

EXISTING UTILITIES (LOCATION, SIZES AND INVERTS) SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF, OR CLOSELY PARALLEL TO, OR UNDER, THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS OR DAMAGES OCCURRING AS A RESULT OF INCORRECTLY LOCATED UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY UNDERGROUND UTILITY LOCATION SERVICE AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK.

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

NO.	DATE	REVISION	BY	CHKD.	APVLS.

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COSTICH ENGINEERING, D.P.C.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT OR LANDSCAPE ARCHITECT, TO ALTER ANY ITEM ON THIS DOCUMENT IN ANY WAY. ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY", FOLLOWED BY HIS/HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATION, TO THE DOCUMENT.

REGISTERED LANDSCAPE ARCHITECT SARAH COSTICH LEWING 002574 STATE OF NEW YORK

PROJECT MANAGER	E.R.G.
DRAWN BY	E.L.O.
BOUNDARY	---
TOPO/BASE	---
DATE	11/15/2023
SCALE	1"=50'

COSTICH ENGINEERING
- Civil Engineering
- Land Surveying
- Landscape Architecture

217 Lake Avenue
Rochester, NY 14608
(585) 458-3020

TITLE OF PROJECT
PROJECT TITLE
PRJ. DESCRIPTION OR ST. ADDRESS

TITLE OF DRAWING
LANDSCAPE PLAN EXHIBIT

LOCATION OF PROJECT
TAX PARCEL NO.'S
TOWN LOT , TOWNSHIP , RANGE , SECTION, TRACT, PURCHASE, COUNTY OF MONROE, STATE OF NEW YORK

CLIENT
CLIENT NAME
CLIENT ADDRESS
ROCHESTER, NEW YORK XXXXX

DWG. # 8084.01
LE100
SHEET 1 OF 2

Attachment: SP-1988-11P drawings 091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

ROMNEY ROAD

PROPOSED
BENDERSON DEVELOPMENT
26,709 S.F.
FFE: 579.5±

Proposed Addition
5,441S.F.

Available
BENDERSON DEVELOPMENT
5,046 S.F.

5,571 S.F.

DORM AUTHORITY
4,962 S.F.

SERVICE EXPERTS HEATING & AIR
6,005 S.F.

MYLERSON ELECTRIC
3,428 S.F.

OERLIKON METCO
3,853 S.F.

JENSS
6,813 S.F.

METER ROOM
148 S.F.

OERLIKON METCO
29,673 S.F.

AVAILABLE
3,600 S.F.

ROTHSTEIN ACQUISITIONS
3,000 S.F.

CONTROLS
3,224 S.F.

DEPT OF LABOR
2,094 S.F.

SERVICE CORRIDOR 800 S.F.

GLOBAL VENDING GROUP
18,248 S.F.

AMHERST MEDICAL ASSOCIATES
11,547 S.F.

SUNRISE PEDIATRICS
3,413 S.F.

SERVICE CORRIDOR

AVAILABLE
1,578 S.F.

LAW OFFICES OF KENNETH HILLER
10,550 S.F.

STORAGE
2,403 S.F.

Existing Lighting

PROPOSED
delta sonic
Proposed Soap Plant
23,000 S.F.
FFE: 579.5±

Available
Warehouse
11,632 S.F.

Proposed Additional
Warehouse
14,554 S.F.
FFE: 579.5±

HORIZON HLTH
2,500 S.F.

MIDLAND FINANCIAL
5,200 S.F.

ASSET RECOVERY CO.
38,105 S.F.

WINDOW DECOR
4,020 S.F.

McANN SYSTEMS
7,455 S.F.

AVAILABLE
2,311 S.F.

104.0'

140.0'

LANDSCAPING

GRAVEL

5150R

RIP-RAP

HEADWALL

N/F
BOULEVARD TOWERS ASSOCIATES LLC
T.A.# 54.14-1-12.11
100 MEYER ROAD
L. 11345 P.3418

N/F
BOULEVARD TOWERS ASSOCIATES LLC
T.A.# 54.14-1-13.2
120 MEYER ROAD

N/F
UNITED STATES POSTAL SERVICE
T.A.# 54.14-1-17.2
5500 NORTH BAILEY AVENUE
L.3795 P.412

OFFICIAL TOWN USE ONLY

Luminaire Schedule

Index	Manufacturer	Luminaire type	Item number	Lumens per Fixture	Mounting Height **	Fixture Watts	Quantity
	Cree	Cree Lighting OSQ Series Area Luminaire, Type 5M, 180W Input Power Designator, 4000K Double Head Fixtures	OSQL-C-30L-40K7-5M-UL-NM-BK	30,000 lm	25 Ft	180 W	16
	Cree	Cree Lighting OSQ Series Area Luminaire, Type 3M, 180W Input Power Designator, 4000K Double Head Fixtures with backlight shield	OSQL-C-30L-40K7-3M-UL-NM-BK w/ OSQ-L-C-BLSF	19,600 lm	25 Ft	180 W	6

*Relocated Poles shall reuse existing LED Fixtures
**Mounting Heights are measured from Finished Grade

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

SPECIAL INFORMATION:

ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ANY AND ALL STRUCTURES.

NOTICE

UNAUTHORIZED ALTERATIONS OF THIS DOCUMENT ARE IN VIOLATION OF SECTION #7209 OF THE STATE EDUCATION LAW.

NORTH

811 Know what's below. Call before you dig.

PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 026109 STATE OF NEW YORK

TITLE:

Site Lighting Plan

SCALE: 1:70

DRAWN BY: DMZ

CHECKED BY: MAO

DATE: 11.08.2023

DRAWING NO. C8.00

Attachment: SP-1988-11P_drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)


delta sonic

ROMNEY ENTRANCE

BENDERSON / DELTA SONIC OFFICE



Attachment: SP-1968-11P_drawings_091024 (2252 : SP-1968-11P, 6009-6029 N. Bailey Ave)



Attachment: SP-1988-11P drawings_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

MAIN ENTRY - NE CORNER

BENDERSON / DELTA SONIC OFFICE



Attachment: SP-1988-11P_Attachments (PD1014 : PZ23) - SD-1988-11P_6000-6020 N. Bailey Ave)

MAIN ENTRY - NE CORNER

BENDERSON / DELTA SONIC OFFICE



Attachment: SP-1368-11P_drawings_091014_(2825) : SP-1368-11P_6000-6020 N. Bailey Ave)



Attachment: SP-1988-11P_drawings_091924_(2829 : SP-1988-11P_6009-6029 N. Bailey Ave)

TOWN OF AMHERST

APPLICATION & REVIEW PROCEDURE

MAJOR SITE PLAN

MATERIALS MUST BE PROVIDED IN AN ELECTRONIC FORMAT THAT CONTAINS PDF FILES OF THE APPLICATION, EAF, SITE PLAN DRAWING SET SURVEY, LANDSCAPE PLAN, PRELIMINARY BUILDING FLOO PLANS / ELEVATIONS & ANY OTHER SUPPORTING INFORMATION. THIS MUST BE SUBMITTED WITH YOUR APPLICATION. APPLICATIONS WILL NOT BE TRANSMITTED WITHOUT THIS ELECTRONIC INFORMATION.

THIS ALSO APPLIES TO REVISED MATERIALS THAT AR SUBMITTED.

This application package includes the following:

- Application Procedures
- Application Form & Checklist
- Stormwater Pollution Prevention Plan Checklist
- Appendix A Town of Amherst EAF Addendum
- Appendix B Criteria for Required 8½" x 11" Sketches
- Appendix C Erie Sewer District No. 5 – Commercial / Industrial New & Existing Buildings Requirements

- IMPORTANT-

1. A pre-submittal consultation with Planning Department staff is *strongly recommended* prior to submitting an application. The pre-submittal meeting gives the applicant an opportunity to discuss with staff such items as:
   - classifying the action as a major site plan, minor site plan, or minor site plan adjustment;
   - determining what specific information will be required to be submitted with the application;
   - identifying and discussing issues that must be addressed as part of the SEQR review;
   - identifying any potential variances required to implement the project as proposed.

   An appointment is required for all meetings with Planning Department staff.

2. This site plan petition is subject to the requirements of 6 NYCRR Part 617, State Environmental Quality Review Act (SEQR), and Chapter 104 of the Town of Amherst Code, as amended. The Planning Board cannot make a SEQR determination unless a complete Environmental Assessment Form (EAF), including Town of Amherst EAF Addendum, and any required supplementary information such as traffic impact studies, archaeological reports, wetland delineations or geotechnical reports, are submitted. SEQR issues may be discussed with Planning Department staff at a recommended pre-submittal meeting. Unlisted Actions require a Short EAF; Type I Actions require a Full EAF. The following is a link to the NYSDEC website and fillable forms with instructions*:*
   http://www.dec.ny.gov/permits/6191.html.

3. **Review by the Town Design Advisory Board (DAB) is required for Major Site Plans located in the following Mixed-Use zoning districts:**

   Traditional Infill 2.5 (TI-2.5)
   Traditional Infill 4 (TI-4)
   Shallow Corridor 3 (SC-3)
   Deep Corridor 3 (DC-3)
   Deep Corridor 5 (DC-5)
   Center 2.5 (CTR-2.5)
   Center 5 (CTR-5)
   Center 8 (CTR-8)

   The application for DAB review is required to be filed in conjunction with the major site plan application.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

4. The application shall be executed or consented to in writing by the owner of the property.

5. **Any variances from the Zoning Board of Appeals, or any decision from the Town Board (e.g. removal of deed restrictions) must be obtained prior to action by the Planning Board on a Site Plan application.**

6. Submittal of an application grants permission to Town staff and Planning Board members to access the parcel(s) under consideration.

7. All site plan drawings must be prepared by a Registered Architect, Professional Engineer, Landscape Architect, or Land Surveyor (as applicable) licensed to practice in New York State.

8. If you wish to include a Coordinated Sign Plan application with the site plan petition, a separate application must be completed. Contact the Planning Department for a copy of a Coordinated Sign Plan application package.

9. All drawings should be no larger than 24 in. x 36 in. If site characteristics warrant larger plan sheets, they may be accepted subject to Planning Department concurrence. All drawings must also reserve a 4 in. x 6 in. area in the lower right hand corner for official Town use.

APPLICATION PROCEDURES

1. Applicant secures application package from the Planning Department, 5583 Main Street, Williamsville, NY 14221. (716) 631-7051. Forms are also available online at: www.amherst.ny.us, (keyword: Planning).

2. Applicant prepares information as required on the Site Plan Submittal Checklist, attached. NOTE: Some proposals may not require all items on the checklist; please verify with the Planning Department.

3. Applicant schedules an appointment with the Planning Department to review the following:
   - a complete set of site plan drawings, preliminary building elevations and floor plans (no larger than 24" x 36" in size)
   - Environmental Assessment Form (EAF) & Town EAF Addendum
   - any supporting reports and materials
   - verification from the Town Assessor that the address in the application is correct

4. Applicant schedules an application submittal appointment with the Planning Department. NO SITE PLAN WILL BE ACCEPTED FOR REVIEW WITHOUT A PRE-SET SUBMITTAL APPOINTMENT.

5. At the submittal appointment, applicant provides fourteen (14) complete and collated sets of drawings and application information to the Planning Department **(materials will not be accepted unless folded into 9" x 12" in size),** including**:**
   - application form
   - Environmental Assessment Form (EAF)
   - supporting reports / materials
   - complete set of site plan drawings, preliminary building elevations and floor plans (**at least one (1) set of drawings must bear a raised or wet seal and signature of the design professional** who prepared the plans; the remaining copies may be submitted with a facsimile of the seal and signature)
   - digital files of all materials in pdf format
   - an 8½" x 11" reduction of the sketch plan or plat drawing (see Appendix B)

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

6. After approval for filing by the Planning Department, applicant submits all necessary fees to the Town Clerk. **(See Schedule of Fees on first page of application and make checks payable to: Town of Amherst.)**

7. The applicant returns a copy of the filing receipt to the Planning Department.

8. The Planning Department transmits remaining thirteen (13) copies of the application and supporting materials to:
   - Assessor
   - Commissioner of Building
   - Town Engineer
   - Superintendent of Highways
   - Traffic/Safety Board
   - Fire Chiefs' Association
   - Plumbing Division
   - Right-of-Way Agent
   - Police Department (if applicable)
   - Zoning Enforcement Officer
   - Other Town and outside agencies, as applicable

9. Within 30 days of its receipt of the complete application for Site Plan approval, each agency completes its review and notifies the Planning Department in writing of its comments or recommendations as required by Ordinance.

10. The applicant may be required to submit revised plans, reports, or materials to address review agency comments. The procedures for submittal of revised plans are as follows:

    - A cover letter addressing all comments received to date is required.
    - "Highlight" the area of change on the drawings and provide a notation describing the change.
    - Revised plans/materials are required. Planning staff should be contacted to determine the number of sets needed.
    - All revised plans and materials must also be provided in an electronic format that contains pdf files of the revised information.

11. The Planning Board reviews the EAF to determine whether a Draft Environmental Impact Statement (DEIS) is required. The petitioner will be advised in the event that a DEIS is required and afforded the opportunity to prepare it. If the petitioner declines, the Planning Board will prepare the DEIS at the petitioner's expense. The public hearing will be held on the DEIS concurrently with the Planning Board hearing on the application.

12. Planning Board Meeting Procedures:

    The applicant or representative presents the project at the public hearing before the Planning Board and is available to answer any questions. The Planning Board may take any of the following actions:

    - Adjourn the hearing to a future Planning Board meeting (hearing remains open).
    - Close the hearing and table action on the site plan to a future Planning Board meeting. (The Planning Board may remove the item from the agenda until such time as all required information is provided.)
    - Close the hearing and make a decision on the site plan.

    All determinations on matters before the Planning Board are made after all public hearings on that meeting's agenda are completed.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

13. A copy of the Planning Board's determination will be provided to the applicant, his / her representative, the Building Commissioner and the Town Clerk approximately 1 week following the Planning Board meeting at which it was heard.

14. If the Planning Board approves a Site Plan with conditions, the Planning Department will work with the applicant to ensure that all conditions of the approval are satisfactorily addressed. When all conditions are satisfied, the applicant submits **seven (7) final copies** of the complete set of all site plan drawings, folded into 9" x 12". For site plans in the Mixed-Use zoning districts, building elevations will also be required.

    All 7 sets must have original wet seals and include the required 4 in. x 6 in area in the lower right hand corner for official Town use. These drawings will be stamped and signed "Approved" by the Planning Director and transmitted to Town Departments for their files and use.

15. A building permit will not be issued by the Building Department until the stamped and signed Site Plan is issued by the Planning Director.

NOTE: Please check with the Planning Department to determine the deadline date for filing applications. Due to the public hearing notice requirements and department reviews, no site plan application will be placed on the Planning Board agenda after the deadline for filing has closed. Scheduling may be delayed if an application is incomplete.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: Benderson Development Company, LLC

Address: 570 Delaware Avenue

Buffalo , New York 14202

city state zip code

Phone: 716-878-9626 Fax: _____

E Mail: _____

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

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

Name: James A. Boglioli

Address: 570 Delaware Avenue

Buffalo , New York 14202
city state zip code

Phone: 716-878-9626 Fax: _____

E Mail: jmb@benderson.com

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

Address: 6000 - 6040 North Bailey Avenue

SBL No(s): 54.14-1-12.211, 54.14-1-12.211/A, 54.14-1-12.211/B

Project Name: Two Building additions 5,441sf & 14,554sf

Project Description: Please see the attached letter of intent

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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):

Please see the attached letter of intent

	existing	proposed	total
Gross Floor Area (non-residential):	246,740	266,735	+19,995
Gross Floor Area Residential:	N/A	N/A	N/A
Number of Residential Units:	N/A	N/A	N/A
Number of Parking Spaces:	452	688	+236

Acreage of Parcel: 17.43

(list each parcel separately)

Frontage on Public Roads: Romney: 945'

(list each road separately) N. Bailey: 445.6'

Existing Zoning District(s) R-D

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Site Plan Submittal Requirements and Checklist

The following checklist outlines the information required by the Planning Department to accept a Site Plan application for review. ***It is strongly recommended that you make an appointment with Planning Staff to determine which items apply to your application***.

Item No.	Item	Submitted	Official use
I Basic Drawing Information			
1.0	**Drawing size not to exceed 24" x 36"**		
2.0	**Title of Drawing**		
3.0	**Name and address of Applicant**		
4.0	**Name of person preparing drawing**		
5.0	**Wet seal/raised seal and signature of NYS licensed architect, engineer, landscape architect, or surveyor (as applicable)**		
6.0	**Project address**		
7.0	**Zoning of subject property and adjacent parcels**		
8.0	**North point, scale, date, and revision date(s)**		
9.0	**4" x 6" reserved area in lower right hand corner for official Town use**		
II Structures, Paved Areas, & Open Space			
1.0	**Existing and Proposed Streets**		
1.1	Names of all existing and proposed streets		
1.2	Width and radii of proposed curb-cuts		
1.3	Existing curb-cuts on adjacent and opposite properties		
1.4	Show ROW width, pavement dimensions, lane widths, pavement markings, and proposed signage on proposed streets		
1.5	Show proposed ROW consistent with planned NYSDOT, Erie County, or Town road projects (if applicable)		
1.6	Show location of proposed cross access to adjacent parcels along with a draft easement		
1.7	Designation of Fire Lanes (if applicable)		
1.8	Fire apparatus access roads		
1.9	Label any proposed roads as public or private		
1.10	Location and dimensions of sidewalks		
1.11	Typical cross sections and profiles of proposed streets, pedestrian walkways, and bikeways		
2.0	**Proposed Structures**		
2.1	Location and complete dimensions of proposed structures		
2.2	Setback dimensions of structure(s) to all property lines		
2.3	Proposed use of structures		
2.4	Gross square feet area of each structure		
2.5	Location of all building entrances		
2.6	Indicate type of roof construction/materials		
2.7	Location, height, and design detail of existing and proposed fences and walls		
2.8	Location of light standards and building mounted lights		
2.9	Location of dumpster and detail of dumpster enclosure with gate		
2.10	Layout and dimensions of the lot(s) proposed for development		

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Item No.	Item	Submitted	Official use
II Structures, Paved Areas, & Open Space (cont'd)			
3.0	**Floor Plans with individual rooms and spaces labeled** (fully dimensioned)		
4.0	**Building elevations with height dimensions from finished grade to the highest point of the roof and to midpoint of gable or hip of a pitched roof.** (fully dimensioned)		
4.1	Show screening of mechanical equipment		
5.0	**Parking/Loading/Stacking Areas**		
5.1	Location and complete dimensions of all paved areas		
5.2	Setback dimensions of all paved areas to property lines		
5.3	Dimension of typical parking space and drive aisles		
5.4	Location and layout of handicapped parking spaces & access aisles		
5.5	Detail of vertical signage for handicapped parking and access aisles		
5.6	Indicate minimum parking requirement & number of spaces provided		
5.7	Proposed signage for directing and guiding traffic		
5.8	Curb cut permits from NYS, Erie County, or Town (if applicable)		
5.9	Pedestrian connections (from proposed structures to public sidewalk network)		
6.0	**Location and proposed development of all open spaces, including parks, playgrounds, and open reservations**		
III Utilities and Drainage			
1.0	**Engineers Report** (bound separately from the Stormwater Pollution Prevention Plan [SWPPP])		
1.1	Stamped/sealed and signed by NYS licensed architect or professional engineer		
1.2	Proposed water service sizing, RPZ pressure and fire safety flow and pressure calculations		
1.3	Proposed sanitary sewer facility load calculations (avg. & peak flows) including calculation of the peaking factor		
1.4	Proposed storm drainage facility calculations (see information included with this application)		
2.0	**Grading Plan**		
2.1	Existing and proposed grades indicated (proposed grades may not exceed 1 on 3)		
3.0	**Water Service**		
3.1	Location, size and material of existing and proposed facilities		
3.2	Location of existing and proposed fire hydrant location(s)		
3.3	Indicate use of sprinklers, location of Fire Department connection, and proposed fire protection systems		
3.4	Existing and proposed meter/RPZ size and location		
3.5	Applicable construction details		
4.0	**Sanitary Sewers**		
4.1	Locations, sizes, slopes, inverts, and materials of all existing and proposed facilities		

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Item No.		Submitted	Official use
III Utilities and Drainage (cont'd)			
4.2	Applicable construction details		
4.3	Proposed water/oil/grease interceptor sizing calculations by a professional engineer (if applicable)		
5.0	**Storm Drainage**		
5.1	Locations, sizes, slopes, inverts, and materials of existing and proposed storm drainage facilities		
5.2	Connection of roof drains to proposed drainage system		
5.3	Applicable Town Standard construction details		
5.4	Existing and proposed swales and ditches		
5.5	Detention area cross-section and high-level elevations		
5.6	County and State approval for tie-in to existing sewers		
6.0	**Stormwater Pollution Prevention Plan (SWPPP) as applicable** (bound separately from the Engineer's Report) **See attached checklist.**		
7.0	**Natural Gas Service**		
8.0	**Location of transformers, generators and other mechanical equipment; include detail drawings (if applicable)**		
9.0	**Downstream Sanitary Capacity Analysis (DSCA) Report** (must be submitted if proposed average flows are greater than 2,500 gallons per day)		
9.1	The DSCA Report must include a detailed downstream sewer capacity analysis and the calculations of and commitment to (via Developer commitment letter) the required financial contribution to the Town's I/I mitigation fund based on peak flow conditions. The contribution must be based on $250 per gallon per minute of mitigated flow		
IV Lighting Plan			
1.0	**Photometric plan showing light spread in foot candles at property lines**		
1.1	Detail of all light standards, including dimension of height from finished grade		
1.2	Detail of all exterior lighting fixtures		
V Landscape Plan			
1.0	**Wet/raised seal and signature of a licensed Landscape Architect**		
2.0	**Provide a calculation of the total Parking area and a calculation of interior parking area in square feet and as a percentage**		
3.0	**Indicate location, size, number and type of proposed landscape materials**		
4.0	**Indicate location, type and size of <u>all</u> existing trees 4" caliper or larger and indicate which will be removed or retained**		
VI Other Required Information/General Requirements			
1.0	**Complete boundary survey that includes all existing structures, acreage, legal description with reference to a property line, street, or other known feature, and easements plotted to scale by a NYS licensed land surveyor**		

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Item No.		Submitted	Official Use
VI Other Required Information/General Requirements (cont'd)			
1.1	Copies of all easements, reciprocal access agreement or similar leag documents		
2.0	**Topographic Survey with a 30 ft. buffer outside all property lines by a NYS licensed land surveyor**		
3.0	**Draft of any deed restrictions, covenants, provisions for home associations and common ownership, and reciprocal easement agreements (as applicable).**		
4.0	**For assessment purposes, state intent to apply for condominium status (if applicable).**		
5.0	**Completed and signed Environmental Assessment Form**		
5.1	Soil boring report and geotechnical report prepared by a qualified Professional Engineer (if applicable)		
5.2	Traffic Impact Study (if applicable)		
5.3	Archaeological survey (if applicable		
5.4	Wetland Delineation report (if applicable)		
6.0	**Show existing zoning(s) of both the subject property and adjacent parcels on the Site Plan and the Landscape Plan**		
7.0	**Location of NYSDEC wetlands (including buffer area) and/or federal wetlands; indicate jurisdictional status**		
8.0	**Location of Floodway and floodplain** (if applicable)		
9.0	**Documentation pertaining to any conditions of zonings, including copies of required deed restrictions; indicate date of rezoning and the parcel address under which it was rezoned (if applicable)**		
10.0	**Documentation related to any required variances granted by the ZBA**		
11.0	**For residential site plans, provide a statement from the appropriate school district that adequate school sites and facilities are available.**		
12.0	**8 1/2" X 11" reduction of primary site plan drawing (see appendix "B" of application package for specifications)**		
13.0	**A CD containing a PDF of all site plan drawings (Must also be provided with revised drawings)**		
VII Additional Required Information for Projects in the Mixed Use Districts			
1.0	**Design Advisory Board Application**		
1.1	Required for Major Site Plan		
1.2	Required at the Planning Directors Discretion for Minor Site Plans		
2.0	**Block & Street Network Plan**		
2.1	Designation of Core, Local & Alley streets		
2.2	Dimensions of Blocks		
3.0	**Block Usage Plan (as applicable)**		
3.1	Designation of site usage for each block including open space areas		
4.0	**Phasing Plan**		

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Town of Amherst Planning Department 5583 Main Street Williamsville-NY-14221
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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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Town of Amherst Planning Department 5583 Main Street Williamsville-NY-14221
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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

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:
   _____
   _____

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_____
   _____

   (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_____
   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:
    _____ average flow _____ 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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

BENDERSON DEVELOPMENT
570 DELAWARE AVENUE
BUFFALO, NY 14202
716.886.0211.P 716.886.2269.F

November 15, 2023

VIA HAND DELIVERY
Robert J. Gilmour., Chair
Members of the Planning Board
Town of Amherst
5583 Main Street
Williamsville, NY 14221

Re: Application for Site Plan Approval
6000 – 6040 North Bailey Ave, Amherst, New York (BDC: 1723)

Dear Chair Gilmour and Members of the Planning Board:

In connection with the above-referenced property, Benderson Development Company, LLC and Delta Sonic Carwash Systems, Inc. is seeking to relocate its office from downtown Buffalo to Amherst. As part of this relocation, both companies are seeking to relocate approximately 250 employes to Amherst. In addition, Delta Sonic is proposing to locate its various warehouse locations in Western New York to the property which includes, research and development, warehousing, fabrication, and soap blending uses.

The Subject Property

As the Planning Board is aware, Amherst Development Park is a business park located in the Research and Development (RD) zoning district. It maintains frontage on North Bailey Ave. and Romney Road and is improved with five buildings. An aerial photograph of the property is attached as **Exhibit A**. To the north, across Romney Road, is the Boulevard, a large shopping center in the SC zoning district. To the west, abutting the Subject Property, is the Boulevard South, another shopping center in the SC zoning district. To the east, across N. Bailey Road will be another large development anchored by Costco and Dick's and located in the SC zoning district. To the south is an office building and the Boulevard towers, located within the CTR-5 and MFR-5 zoning districts, respectively. The properties located to the north, east and west of the Subject Property are all owned by Benderson Development.

The Proposed Project

In order to accommodate the new offices and the Delta Sonic warehouse, Benderson is proposing the following changes:

- A 5,441 s.f. building expansion to connect the existing 26,709 s.f. and 35,826 s.f. buildings located along Romney Road in the northwest corner of the Subject Property to accommodate the new offices.
- A 14,554 s.f. building expansion to connect the existing 34,632 s.f. and 59,591 s.f. buildings located along rear of the property in the southwest corner of the Subject Property to accommodate Delta Sonic's warehouse uses.
- The reconfiguration of the parking field along Romney Road to add an additional row of parking against Romney Road and the reconfiguration of the parking to the south to add an extra row of parking along the southern property line.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

BENDERSON DEVELOPMENT
570 DELAWARE AVENUE
BUFFALO, NY 14202
716.886.0211.P 716.886.2269.F

- The reconfiguration of the area between the two buildings (office and warehouse) to add outdoor greenspace, patio area and parking, as well as to re-work the loading docks to the southerly building.

- Additional site, utility, landscaping, sidewalk and other enhancements in connection with the above - referenced changes.

- Upgrading of the building façade to accommodate the new development.

Conclusion

We look forward to working with the Town on this project. We believe this project represents a great development opportunity for this area that is consistent with the previous development of the property. If there are any questions regarding this letter or the enclosed documentation, please feel free to contact me at (716) 878-9626 or jamesboglioli@benderson.com.

Thank you,
BENDERSON DEVELOPMENT COMPANY, LLC
James A. Boglioli
James A. Boglioli, Esq.
Director, Right to Build – Northeast US

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Exhibit A

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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
Odessa silt loam	Severe	Severe	Severe	Severe	Severe

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).

   X Geotechnical report attached _____ Not applicable
   Report will be submitted as soon as it is completed

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:
   Blvd Consumer Square; Amherst Commerce park; Maple Crossing; Blvd South (TJ Maxx Plaza);
   1401 - 1405 Niagara Falls Blvd; 3980 Maple Road; 50 Keph Drive; 1715 & 1721 Niagara Falls Blvd

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_____
   _____

   (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 77 TOTAL TRIPS
   Source: ITE - Trip Generation Manual

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:
    2,000 GPD average flow 12.7 GPM 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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 Chipotle

Project Location (describe, and attach a location map):
160-190 Main Street, East Aurora, NY

Brief Description of Proposed Action:
The proposed project is to infill an existing 3,196 S.F. vacant space within an existing 15,775 S.F. building with associated utility infrastructure.

Name of Applicant or Sponsor:	Telephone: 716-878-9683
Benderson Development Company, LLC	E-Mail: davidzuppelli@benderson.com

Address:
570 Delaware Ave

City/PO:	State:	Zip Code:
Buffalo	New York	14202

	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:	☐	☑

3. a. Total acreage of the site of the proposed action? 3.3 acres
   b. Total acreage to be physically disturbed? 0.03 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 3.34 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:
   ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☑ Commercial ☑ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

	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?	☐	☑
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?	NO	YES
If Yes, identify:	☑	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES
	☐	☑
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?	☐	☑
9. Does the proposed action meet or exceed the state energy code requirements?	NO	YES
If the proposed action will exceed requirements, describe design features and technologies: Existing	☐	☑
10. Will the proposed action connect to an existing public/private water supply?	NO	YES
If No, describe method for providing potable water: Existing	☐	☑
11. Will the proposed action connect to existing wastewater utilities?	NO	YES
If No, describe method for providing wastewater treatment: Existing	☐	☑
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?	NO	YES
	☑	☐
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?	☑	☐
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?	NO	YES
	☐	☑
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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: Sheet drain to existing site storm infrastructure		
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:	☑	☐
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: David Zuppelli Date: 9.6.24

Signature: _____ Title: Civil Engineer

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

PRINT FORM

CARMINAWOOD
DESIGN

STORMWATER POLLUTION PREVENTION PLAN
for
CONSTRUCTION ACTIVITIES

At

Amherst Development Park
6000-6040 North Bailey Ave
Town of Amherst, Erie County, New York

Prepared for

Benderson Development Company, LLC

570 Delaware Avenue
Buffalo, NY 14202

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

November 2023



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Table of Contents

Section 101 - Scope

Section 102 - Project Name and Location

Section 103 - Operator's Name and Address

Section 104 - Project Description

Section 105 - Runoff Coefficient, Soils and Rainfall Information

Section 106 - Name of Receiving Waters

Section 107 - Indian Country Lands

Section 108 - Endangered or Threatened Species

Section 109 - Critical Habitat

Section 110 - Historic Places

Section 111 - Wetlands and/or Other Surface Waters

Section 112 - Erosion and Sediment Controls

- **Section 112.1** - Stabilization Practices
- **Section 112.2** - Structural Practices
- **Section 112.3** - Sequence of Major Activities
- **Section 112.4** - Storm Water Management

Section 113 - Other Controls

Section 114 - Compliance with Federal, State and Local Regulations

Section 115 - Inspection and Maintenance Procedures

Section 116 - Inspection and Maintenance Report Forms

Section 117 - Other Record-Keeping Requirements

Section 118 - Spill Prevention Control and Countermeasures (SPCC) Plan

- **Section 118.1** - Materials Covered
- **Section 118.2** - Material Management Practices
- **Section 118.3** - Spill Prevention and Response Procedures

Section 119 - Control of Non-Storm Water Discharges

Section 120 – Storm Water Control Facility Maintenance

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Table of Contents (con't)

Appendix A Site Location Maps

Appendix B NYSDEC Notice of Intent (NOI)

Appendix C MS4 SWPPP Acceptance Form

Appendix D Engineer's Report

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

Appendix F Forms

- Contractor's Certification
- Owner/Operator Certification
- SWPPP Preparer Certification
- NYSDEC Letter of Acknowledgment

Appendix G NYSDEC Notice of Termination (NOT)

Town of Amherst Level 1 Inspection – Post Construction Stormwater Management

Appendix H Construction Documents

Appendix I Standard Erosion Control Details

Appendix J NYSDEC Stormwater Management Inspection Lists

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

101 SCOPE

A. **PURPOSE:** Benderson Development Company, LLC 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 Benderson Development Company, LLC; and/or liquidated damages. This section provides a descriptive explanation of Benderson Development Company, LLC 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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

B. **Owner or operator Maintenance Inspection Requirements**

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. **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;

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

   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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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.

The Town of Amherst - Notice of Termination Requirement: Prior to submitting the NOT, the Town of Amherst requires a Level 1 inspection of all stormwater management practices. See Appendix G: Town of Amherst Level 1 Inspection – Post Construction Stormwater Management.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

102 PROJECT NAME AND LOCATION

Amherst Development Park

6000-6040 North Bailey Ave

Town of Amherst, County of Erie, New York

42.996°N, 78.817°W

Estimated Area of Site ≈ 17.14 acres

Estimated Area to be Disturbed by Construction Activities ≈ 6.95+/- acres

A general location map is included as Appendix A.

103 OPERATOR'S NAME AND ADDRESS

Benderson Development Company, LLC

570 Delaware Ave.

Buffalo, NY 14202

Contact Person: Matt Oates

Telephone: 716-878-9397

104 PROJECT DESCRIPTION

This project is a site redevelopment of the existing Amherst Development Park located on the south side of Ridge Lea Road and on the west side of North Bailey Ave in the Town of Amherst. The site is located north of Meyer Road and east of Niagara Falls Boulevard. The Boulevard Consumer Square is located north and west of the project site, Amherst Commerce Park is located east of the project site and Boulevard Towers Apartments are located south of the project site. The site is currently fully developed and occupied by existing commercial buildings that will remain. Proposed construction will include two building additions and parking lot/driveway expansions. Site construction will also include utility improvements and new stormwater management areas. The overall site is 17.14 of which 6.95 acres will be disturbed by construction activities. The project site is currently zoned R-D.

Soil disturbing activities will include:

A. Construction of temporary construction exit points

B. Clearing & grubbing of the site within disturbance limits

C. Installation of stormwater management 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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

H. Construction of buildings

This project is owned by Benderson Development Company, LLC and will be developed by Benderson Development Company, LLC The work area consists of approximately 6.95+/- 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" = 85. The post-construction runoff curve number for the site will be "CN" = 95. Approximately 6.95+/- acres total 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.

106 WATERS

The runoff generated from this site will discharge to an unnamed open/closed drainage system north of the site that discharges to Ellicott Creek and ultimately the Niagara River.

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

No critical habitats have been determined to be on the site.

111 WETLANDS AND/OR OTHER SURFACE WATERS

No wetlands or other surface waters are located on the site

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Refer to Appendix D, Engineer's Report

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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
- Solid and construction wastes
- Acids
- Fertilizers

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

- 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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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)

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 J 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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

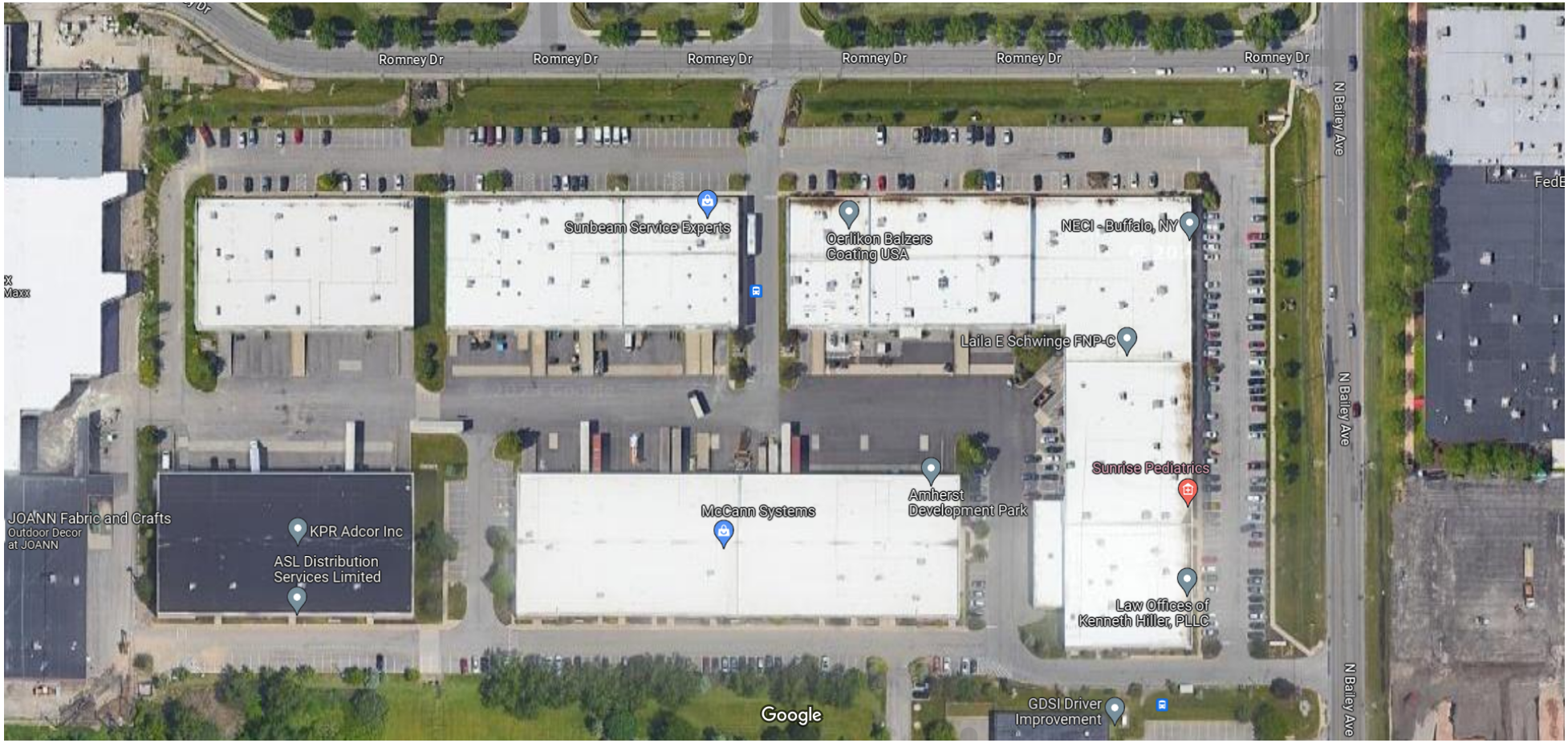
Appendix A

Site Location Maps

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

1.c

Google Maps romney road

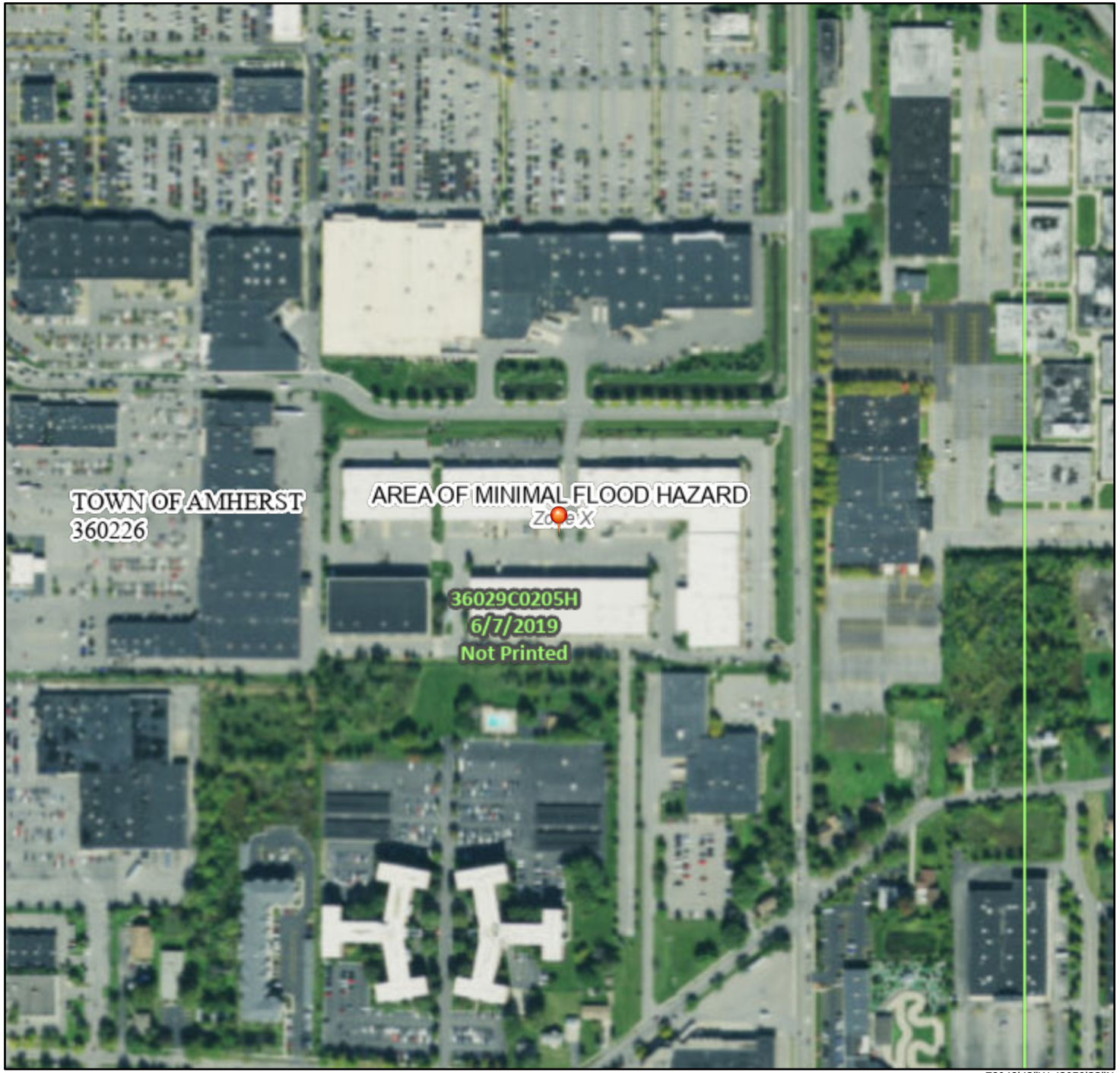


Imagery ©2023 Airbus, CNES / Airbus, Maxar Technologies, New York GIS, U.S. Geological Survey, USDA/FPAC/GEO, Map data ©2023 100 ft

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National Flood Hazard Layer FIRMette

78°49'19"W 43°N



78°48'42"W 42°59'33"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,*
- 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 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
- 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 11/13/2023 at 9:45 AM 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.

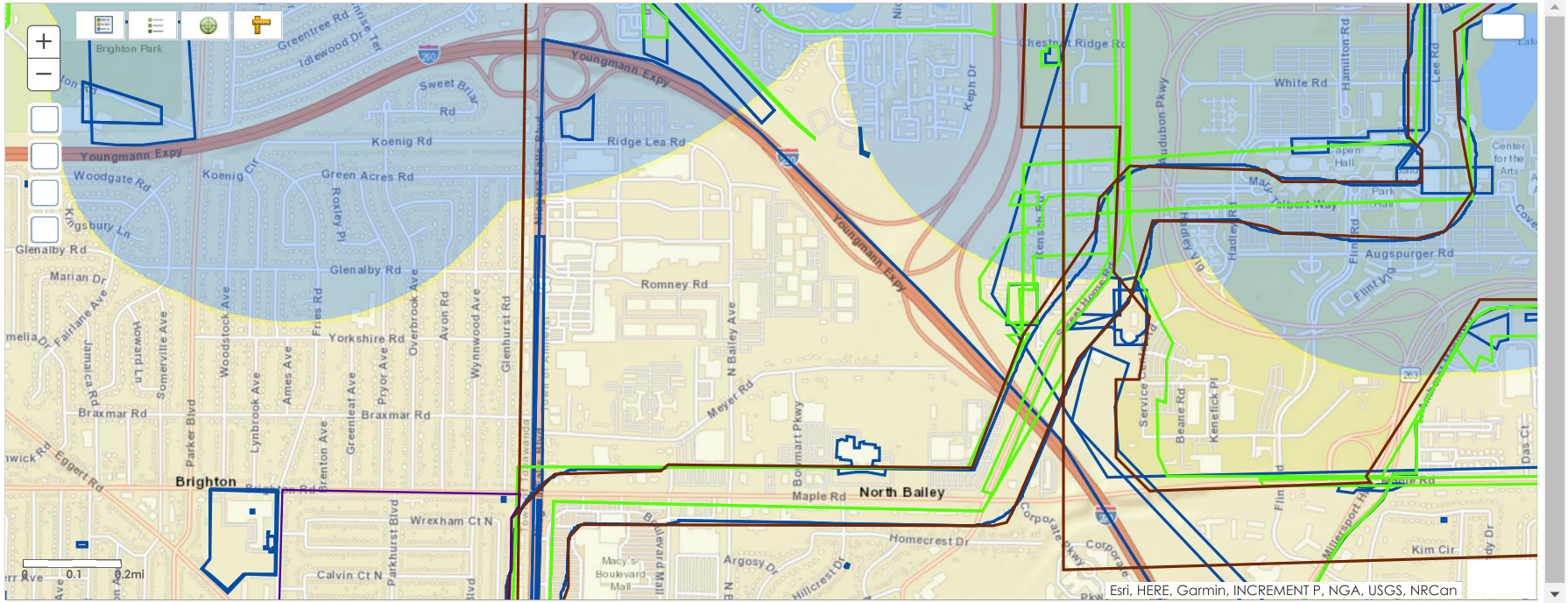
This map image is void if the one or more of the following n elements do not appear: basemap imagery, flood zone labe legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized area regulatory purposes.

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CRIS Cultural Resource Information System

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Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey

Appendix B

NYSDEC Notice of Intent (NOI)

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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)
Benderson Development Company

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

Owner/Operator Contact Person First Name
Matt

Owner/Operator Mailing Address
570 Delaware Ave

City
Buffalo

State: NY Zip: 14202 -

Phone (Owner/Operator): 7168780397 Fax (Owner/Operator): ___ - ___ - ____

Email (Owner/Operator)
MattOates@benderson.com

FED TAX ID
16-1549911 (not required for individuals)

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Project Site Information

Project/Site Name

Amherst Development Park

Street Address (NOT P.O. BOX)

6000-6040 North Bailey Ave

Side of Street

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

City/Town/Village (THAT ISSUES BUILDING PERMIT)

Town of Amherst

State: NY

Zip: 14226-

County: Erie

DEC Region: 9

Name of Nearest Cross Street

Romney Road

Distance to Nearest Cross Street (Feet)

0

Project In Relation to Cross Street

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

Tax Map Numbers
Section-Block-Parcel

54.14-1-19.1

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)

-7 8817

Ex. -73.749

Y Coordinates (Northing)

42996

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: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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
17.1	7.0	3.9	5.9

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
0 %	0 %	0 %	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
03/01/2024	01/01/2025

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Name: Ellicott 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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 & NYSDOT

open/closed stormwater drainage 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: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: 487 Main Street Suite 600

City: Buffalo

State: NY Zip: 14203-

Phone: 7168422165 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: 11/16/2023

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

0.749 **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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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)			1.97	
○ 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: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 WQ Structure	3.92

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

Name TBD

Manufacturer TBD

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

0.094 **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

0.056 **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

0.655 **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).

0.749

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

0.230 **acre-feet**

CPv Provided

0.230 **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

20.51 **CFS**

Post-development

13.54 **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

41.10 **CFS**

Post-development

25.60 **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

Benderson Development Company

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.

-RRv is required for any new impervious within a redevelopment project
-Onsite soils with slow infiltration rates (Hydrologic soil group "D")

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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][ ][ ][ ][ ][ ][ ]

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Matt

MI

Print Last Name

Oates

Owner/Operator Signature

Date

/ /

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix C

MS4 SWPPP Acceptance Form

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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:	Benderson Development, LLC
2. Contact Person:	Matt Oates
3. Street Address:	570 Delaware Ave
4. City/State/Zip:	Buffalo, NY 14202
II. Project Site Information	
5. Project/Site Name:	Amherst Development Park
6. Street Address:	6000-6040 North Bailey Ave
7. City/State/Zip:	Amherst, NY 14226
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:	Town of Amherst
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Contact Person:	
14. Street Address:	
15. City/State/Zip:	
16. Telephone Number:	

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix D

Engineer's Report

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINAWOOD
DESIGN

ENGINEER'S REPORT

for

Amherst Development Park

6000-6040 North Bailey Ave
Town of Amherst, Erie County, New York

Prepared for

Benderson Development Company, LLC

570 Delaware Avenue
Buffalo, NY 14202

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

November 2023



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Table of Contents

Written Engineer's Report

Section 1 - Location & Description

Section 2 - Stormwater Drainage System

Appendices

Appendix A - Location Maps – Erie County GIS

Appendix B - Web Soil Survey – Hydrologic Soils Groups

Appendix C - Storm Sewer Drainage Calculations

- Water Quality and Runoff Reduction Calculations
- Stormwater Runoff Summaries and Runoff Delineation Maps
- HydroCAD Analysis

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Section 1 – Location & Description

This project is a site redevelopment of the existing Amherst Development Park located on the south side of Ridge Lea Road and on the west side of North Bailey Ave in the Town of Amherst. The site is located north of Meyer Road and east of Niagara Falls Boulevard. The Boulevard Consumer Square is located north and west of the project site, Amherst Commerce Park is located east of the project site and Boulevard Towers Apartments are located south of the project site. The site is currently fully developed and occupied by existing commercial buildings that will remain. Proposed construction will include two building additions and parking lot/driveway expansions. Site construction will also include utility improvements and new stormwater management areas. The overall site is 17.14 of which 6.95 acres will be disturbed by construction activities. The project site is currently zoned R-D.

Section 2 – Stormwater Drainage System

The existing site is generally flat. An existing open/closed drainage system onsite drains north to an open swale along the north side of Romney Rd. Three existing 3'x5' arch stormwater conveyance pipes are also located onsite within a 30' wide Town of Amherst Drainage easement. These conveyance pipes flow from the south property line to north and discharge into the open swale along Romney Rd. The existing swale flows east along Romney Rd and north along North Bailey Ave and outlets to an existing stormwater management pond located adjacent to Interstate 290. Runoff from the pond is then conveyed north via open and closed drainage systems and discharges to Ellicott Creek and ultimately the Niagara River. All proposed stormwater runoff from the project site will continue to discharge to the existing stormwater system along Romney Road.

This project is subject to the Boulevard Central Special Stormwater Design Conditions adopted by the Town of Amherst. In addition to the requirements of the NYSDEC SPDES General Permit, the project must also provide the following criteria for Projected Growth Redevelopment Scenarios and Enhanced Phosphorus Removal:

- Provide 10% escalation of proposed peak flow when compared to existing conditions peak flows.
- Median curve number (CN) to compute existing conditions.
- Water Quality volume based on the 1-year, 24-hour storm according to Chapter 10 of the NYSDEC Stormwater Management Design Manual.

For purposes of the runoff analysis and the stormwater drainage system design, portions of the project site were classified as "Redevelopment" per NYSDEC Stormwater Management Design Manual Chapter 9 requirements. The nature of this construction project will be a "Redevelopment" with an increase in impervious area. The proposed stormwater management system was designed to attenuate proposed runoff to existing conditions prior to discharge.

The proposed stormwater drainage system will consist of a combination of overland sheet flow and HDPE pipe channel flow connected by a series of drainage inlets located throughout the project site. Proposed stormwater runoff will be collected and conveyed to an underground stormwater chamber detention area onsite and discharged via outlet control pipes to the existing stormwater system along Romney Road.

The bioretention areas will provide Runoff Reduction and Water Quality volume requirements for "New Development" areas. The filter area planting soil depth varies throughout the bioretention areas but maintains a minimum of at least 18 inches of soil. The 18 inches of soil is an acceptable deviation per the NYSDEC where existing grades prevent the full 2.5'-4' foot soil depth. A series of 6" underdrains below the planting soil will be located throughout the bioretention areas connected by overflow drainage inlets to convey runoff directly to the closed stormwater management system. Water quality treatment structures will be installed onsite to address water quality requirements for "Redevelopment" areas.

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: No existing natural features exist onsite.
2. Calculation of Water Quality Volume (WQv) for site. See "Storm Sewer Drainage Calculations".

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 and WQv for "New Development" areas. See "Storm Sewer 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. Water quality treatment structures will be installed onsite to address water quality requirements for "Redevelopment" areas. See "Storm Sewer Drainage Calculations".
5. Design of volume and peak rate control practices where required. See "Storm Sewer 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:
The NYSDEC requires water quality treatment prior to discharge. This will be achieved by the application of bioretention areas and water quality treatment structures. The total WQv provided was 0.749 ac-ft and equal to the required WQv of 0.749 ac-ft. The required water quality volume was calculated based on the proposed 6.95 acres of proposed development area.

Runoff Reduction Volume:
The NYSDEC requires reduction of the total water quality volume by green infrastructure techniques and SMPs to replicate pre-development hydrology. Bioretention areas were incorporated into the site layout to provide the required RRv for contributing runoff areas in the WQv. The RRv provided was 0.094 ac-ft and greater than the required RRv min. of 0.056 ac-ft. The required runoff reduction volume was calculated based on 3.03 acres of proposed "new development" area that includes 1.97 acres of "new impervious" area.

100% of the required WQv was not reduced due to the followings site specific limitations: Drainage areas with impermeable soils, Type D. In addition, below is a summary of how each green infrastructure technique was evaluated and determined to be feasible or infeasible:

1. Conservation of natural areas: no natural existing features present onsite.
2. Sheetflow to riparian buffers or filter strips: no riparian buffers possible on the site; filter strips not feasible given the limited area for development.
3. Vegetated Open Swales: swales were not feasible given the limited area for development.
4. Tree Plantings: new trees were planted throughout the site.
5. Disconnection of Roof Top Runoff: disconnection not feasible for these types of projects.
6. Stream Daylighting: is not feasible given the limited area for development.
7. Rain Garden: bioretention areas installed throughout site.
8. Green Roof: the proposed use of the building makes this an unfeasible practice.
9. Stormwater Planter: this method is not recommended for these types of projects.
10. Rain Barrels & Cisterns: collected water would not be used for irrigation.
11. Porous Pavement: porous pavement is not recommended for areas with impermeable soils (Type D) and areas with sediment laden runoff (salting in winter months).

Channel Protection:
The NYSDEC requires that 24-Hour extended detention be provided for the proposed 1-year storm event. A volume of 10,004 cf will be accommodated in the stormwater detention areas onsite.

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. Storage of this storm will be provided within the onsite stormwater detention areas. At this storm event the stormwater drainage system will allow discharge of 13.54 cfs, which is below the existing peak 10-year runoff of 20.51 cfs.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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. Storage of this storm will be provided within the onsite stormwater detention areas. At this storm event the stormwater drainage system will allow discharge of 25.60 cfs, which is below the existing peak 100-year runoff of 41.10 cfs.

Town of Amherst:
The Town 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 *under the 10% escalation scenario*. Storage of this storm will be provided within the onsite stormwater detention areas. At the 25-year storm event the stormwater drainage system will allow discharge of 19.34 cfs, which is below the existing peak 10-year runoff of 20.51 cfs.

Design Criteria:
Storm pipes: 10-year storm
RUNOFF ANALYSIS OF PROPOSED DEVELOPMENT AREA:

STORM EVENT	EXISTING RUNOFF (cfs)	PROPOSED RUNOFF (cfs)	10% ESCALATION (cfs)
1 YEAR	8.12	7.30	8.03
2 YEAR	11.64	9.40	10.34
5 YEAR	16.25	11.90	13.09
10 YEAR	20.51	13.54	14.89
25 YEAR	27.36	18.03	19.83
50 YEAR	33.68	21.83	24.01
100 YEAR	41.10	25.60	28.16

WATER QUALITY SUMMARY:
WQv REQUIRED = 0.749 AC-FT
RRv MIN. REQUIRED = 0.056 AC-FT
RRv PROVIDED WITHIN BIORETENTION AREAS = 0.094 AC-FT
WQv PROVIDED WITHIN BIORETENTION AREAS = 0.234 AC-FT
WQv PROVIDED BY TREATMENT STRUCTURES = 0.515 AC-FT
TOTAL WQv PROVIDED = 0.749 AC-FT

BIORETENTION FILTER AREA SUMMARY:
FILTER AREA = 9,266 SF

See attached “Storm Sewer Drainage Calculations” for additional information.

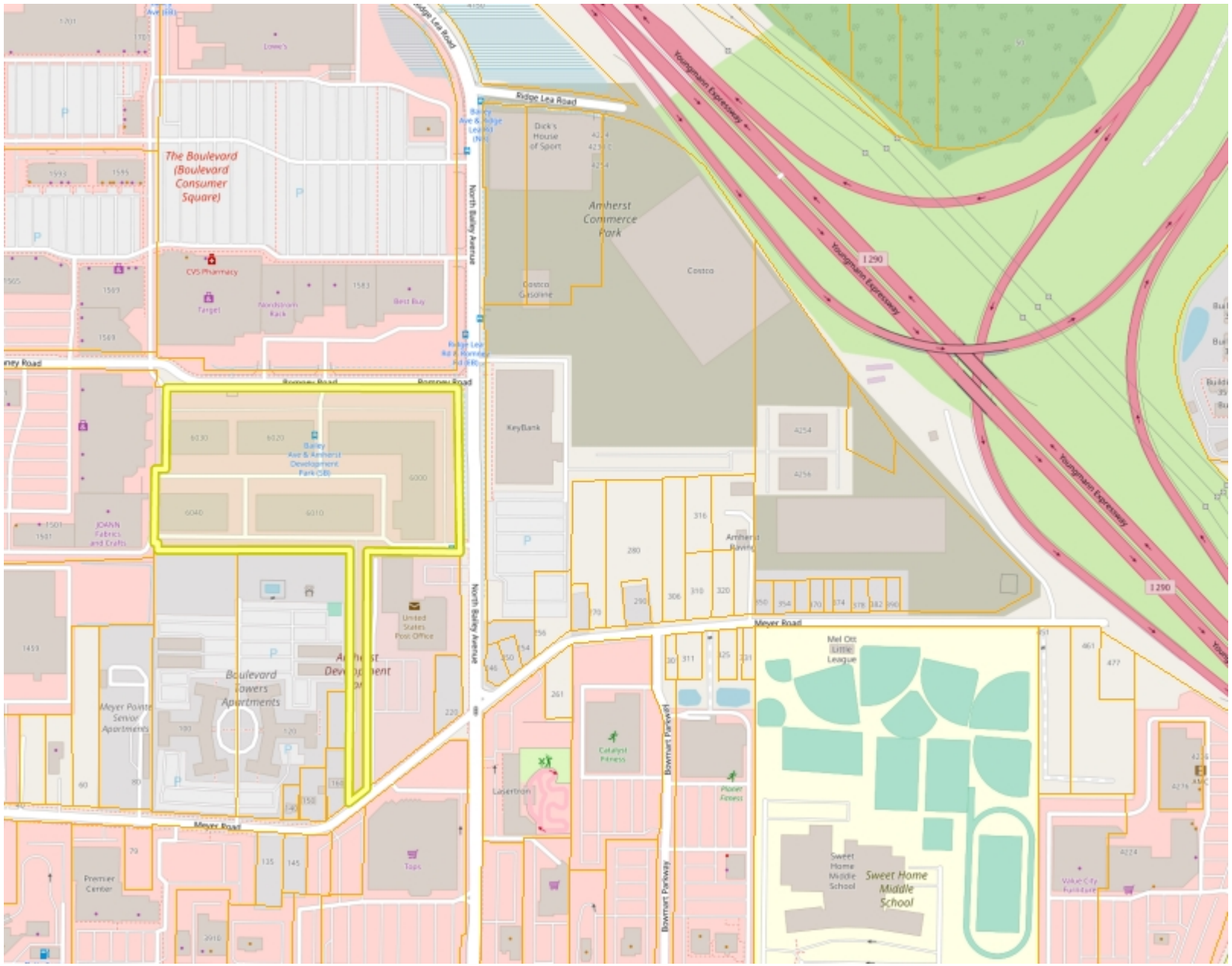
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix A

Location Maps

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

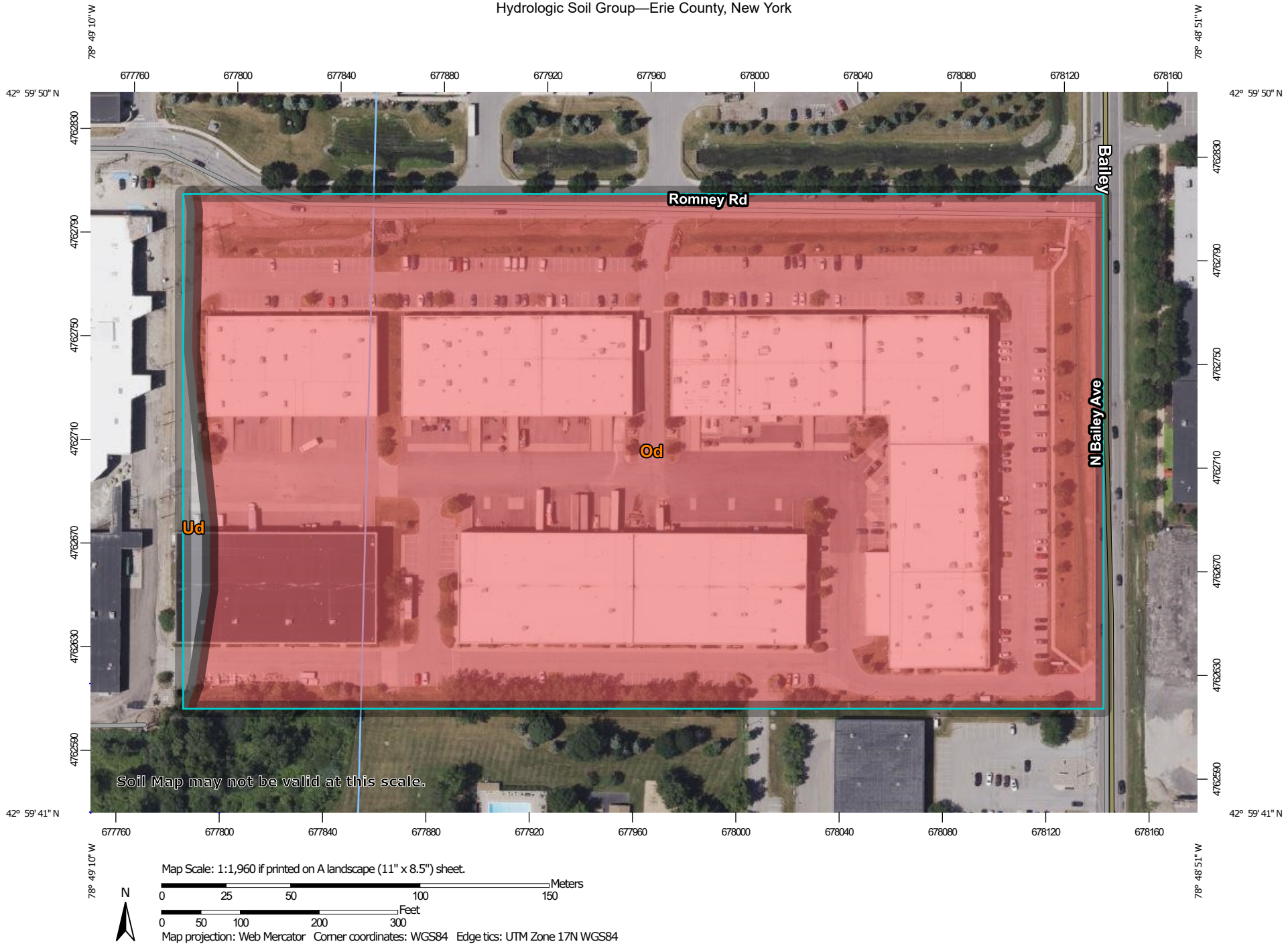
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey

Appendix B

Web Soil Survey – Hydrologic Soils Group

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Hydrologic Soil Group—Erie County, New York



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey

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: May 9, 2022—Aug 15, 2022

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Od	Odessa silt loam, 0 to 3 percent slopes	D	17.2	98.2%
Ud	Urban land		0.3	1.8%
Totals for Area of Interest			**17.6**	**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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix C

Storm Sewer Drainage Calculations

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Water Quality and Runoff Reduction Calculations

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

WATER QUALITY REQUIRED FOR PROPOSED DEVELOPMENT AREA Area, Acres = 6.95

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

"Redevelopment Activity", Acres = 3.92 "New development", Acres = 3.03

(existing, disturbed impervious area)

Total proposed impervious, Acres = 5.89

"New" impervious, Acres = 1.97

Water Quality Volume (WQv) WQv Required = 1-Year, 24-Hour Design Storm

See Attached Worksheet & HydroCAD "WQ1" & "WQ2":

WQ1, Proposed Overall Development Area, ac-ft = 0.749

WQ2, Redevelopment Area, ac-ft = 0.515

Flow Through Alt. Practice = 100% WQv for Redevelopment, ac-ft = 0.515

WQ3, New Development Area, ac-ft = 0.234

Total WQv Required, ac-ft = 0.749

Note: Runoff Reduction Volume (RRv) sizing criteria not required for "Redevelopment Activity" portion of project.

See attached Bioretention Worksheet for RRv sizing for "New Development" portion of project.

RRv PROVIDED FOR PROPOSED DEVELOPMENT AREA (See NYSDEC worksheets)

		WQv, cf	RRv, cf
Min. RRv Req'd, cf = 2,446	Bioretention Area	10,193	4,077
Min. RRv Req'd, ac-ft = 0.056	WQ Treatment Structure(s)	22,433	0
(P=1 yr storm event =1.80 in)	TOTAL, cf	32626.45	4077
	TOTAL, ac-ft	0.749	0.094

WQ & RR SUMMARY (ac-ft):

TOTAL WATER QUALITY PROVIDED FOR PROPOSED DEVELOPMENT AREA 0.749

IS WATER QUALITY VOLUME REQUIREMENT MET? Yes

(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)

Revised_/_/_

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINAWOOD
DESIGN

24-4099 AMHERST DEVELOPMENT PARK 11/14/23

WATER QUALITY VOLUME FOR ENHANCED PHOSPHORUS REMOVAL

* WQ_v = 1-YR, 24-HR DESIGN STORM (HYDROCAD)

① PROPOSED OVERALL DEVELOPMENT AREA = 6.95 AC

GREENSPACE =
IMPERVIOUS =
$T_c \leq 5.0$ MIN

→ 1-YR, 24-HR HYDROCAD RUNOFF VOLUME

WQ_1 = 0.749 AC-FT
(SEE ATTACHED "WQ1" HYDROCAD)

② REDEVELOPMENT AREA = 3.92 AC (EXISTING IMPERVIOUS)

1-YR, 24-HR HYDROCAD RUNOFF VOLUME = 0.515 AC-FT
(SEE ATTACHED "WQ2" HYDROCAD)

PER NYSDEC STORMWATER DESIGN MANUAL 10.3.6
* PERFORMANCE CRITERIA: OPTIONS
① USE 25% WQ_v OF REDEVELOPMENT AREA FOR SMP'S
② USE 75% WQ_v OF REDEVELOPMENT AREA FOR VOLUME BASED ALTERNATIVE PRACTICE
③ USE 100% WQ_v OF REDEVELOPMENT AREA FOR FLOW THROUGH ALT. PRACTICE

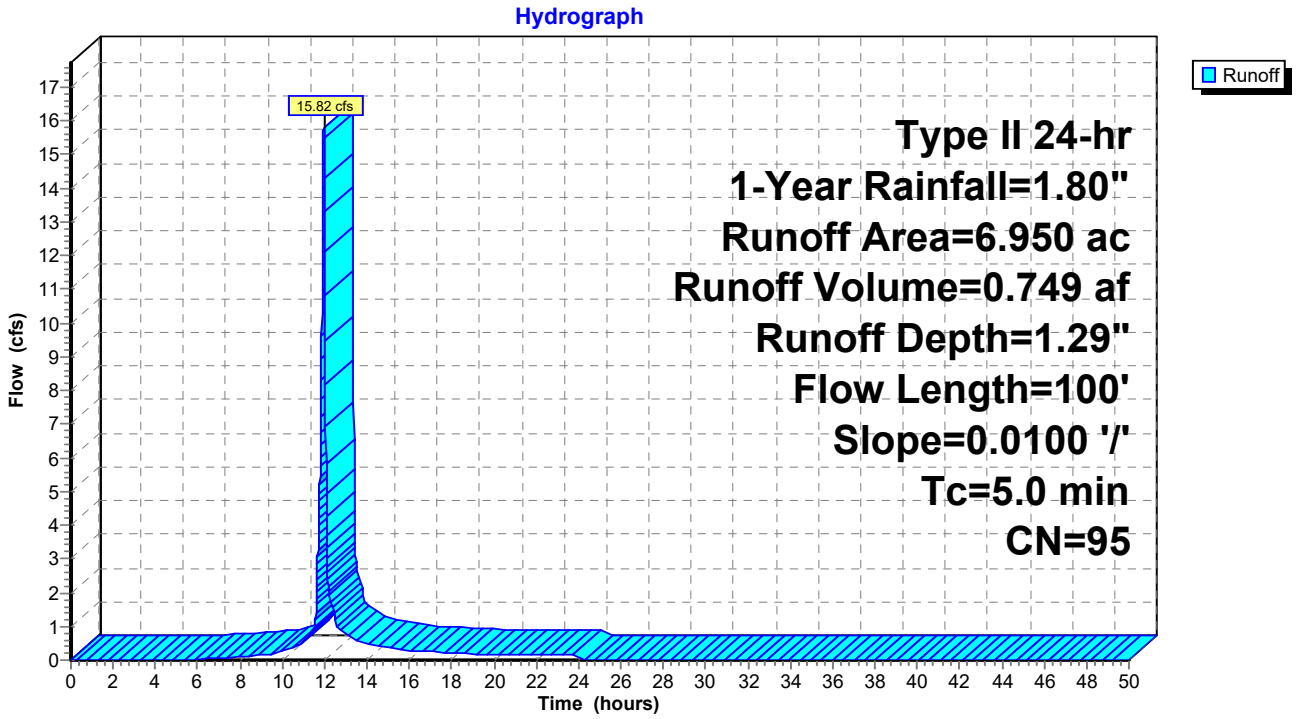
USE OPTION ③
WQ_2 = 0.515 AC-FT

③ NEW DEVELOPMENT AREA =

WQ_3 = 0.749 AC FT − 0.515 AC FT = 0.234 AC FT

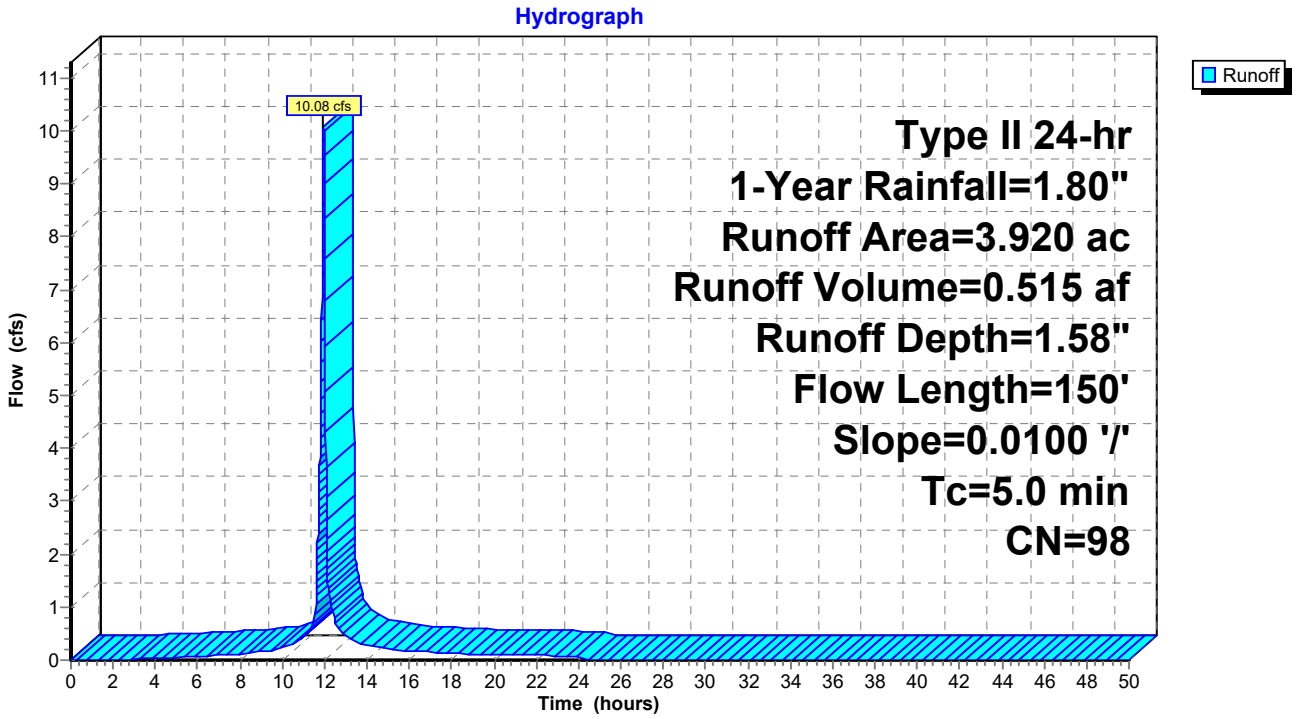
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Subcatchment WQ1: Proposed Site - Overall Area



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Subcatchment 2S: Proposed Site - Redevelopment Area



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

WATER QUALITY TREATMENT STRUCTURE SIZING CALCULATIONS

Area, Acres = 3.92

Water Quality Volume (WQv)

WQv (ac-ft)= 0.515

WQv (cf)= 22,433

Water Quality Peak Flow Calculation for Flow Through Practices

Q, WQv in Watershed Inches = (WQv/A)x12 = 1.577

P = 1.8

"Rational Method" CN Value = $1000/[10 + 5P + 10Q - 10(Q^2 + 1.25\,QP)^{½}]$

CN= 98

Initial Abstration: Table 4-I, Ia = 0.041

Ia/P Ratio = 0.023

Tc (HydroCAD), min.= 5

Tc (HydroCAD), hr.= 0.1

Unit Peak Discharge, qu (csm/in) 1000

Peak Discharge (Qp) = qu * A * WQv

Where: A = drainage area, in square miles

WQv = Water Quality Volume, in watershed inches

qu = the unit peak discharge, in cfs/mi²/inch

Qp, (cfs) = 9.656

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Chapter 4 Graphical Peak Discharge Method

This chapter presents the Graphical Peak Discharge method for computing peak discharge from rural and urban areas. The Graphical method was developed from hydrograph analyses using TR-20, "Computer Program for Project Formulation—Hydrology" (SCS 1983). The peak discharge equation used is:

$$q_p = q_u A_m Q F_p \qquad \text{[eq. 4-1]}$$

where:

q_p = peak discharge (cfs)
q_u = unit peak discharge (csm/in)
A_m = drainage area (mi^2)
Q = runoff (in)
F_p = pond and swamp adjustment factor

The input requirements for the Graphical method are as follows: (1) T_c (hr), (2) drainage area (mi^2), (3) appropriate rainfall distribution (I, IA, II, or III), (4) 24-hour rainfall (in), and (5) CN. If pond and swamp areas are spread throughout the watershed and are not considered in the T_c computation, an adjustment for pond and swamp areas is also needed.

Peak discharge computation

For a selected rainfall frequency, the 24-hour rainfall (P) is obtained from appendix B or more detailed local precipitation maps. CN and total runoff (Q) for the watershed are computed according to the methods outlined in chapter 2. The CN is used to determine the initial abstraction (I_a) from table 4-1. I_a / P is then computed.

If the computed I_a / P ratio is outside the range in exhibit 4 (4-I, 4-IA, 4-II, and 4-III) for the rainfall distribution of interest, then the limiting value should be used. If the ratio falls between the limiting values, use linear interpolation. Figure 4-1 illustrates the sensitivity of I_a / P to CN and P.

Peak discharge per square mile per inch of runoff (q_u) is obtained from exhibit 4-I, 4-IA, 4-II, or 4-III by using T_c (chapter 3), rainfall distribution type, and I_a / P ratio. The pond and swamp adjustment factor is obtained from table 4-2 (rounded to the nearest table value). Use worksheet 4 in appendix D to aid in computing the peak discharge using the Graphical method.

Figure 4-1 Variation of I_a / P for P and CN

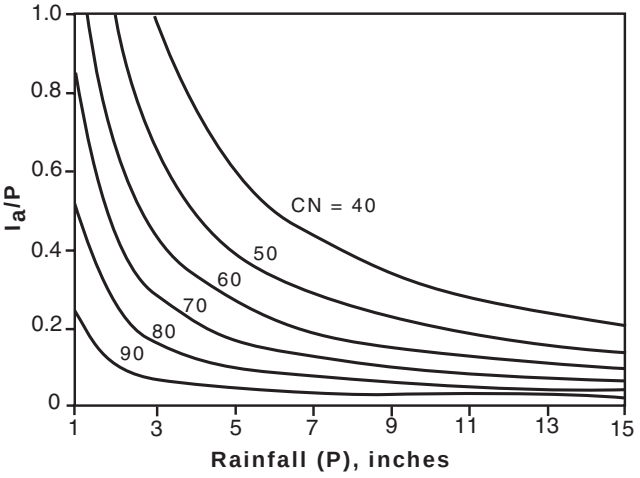
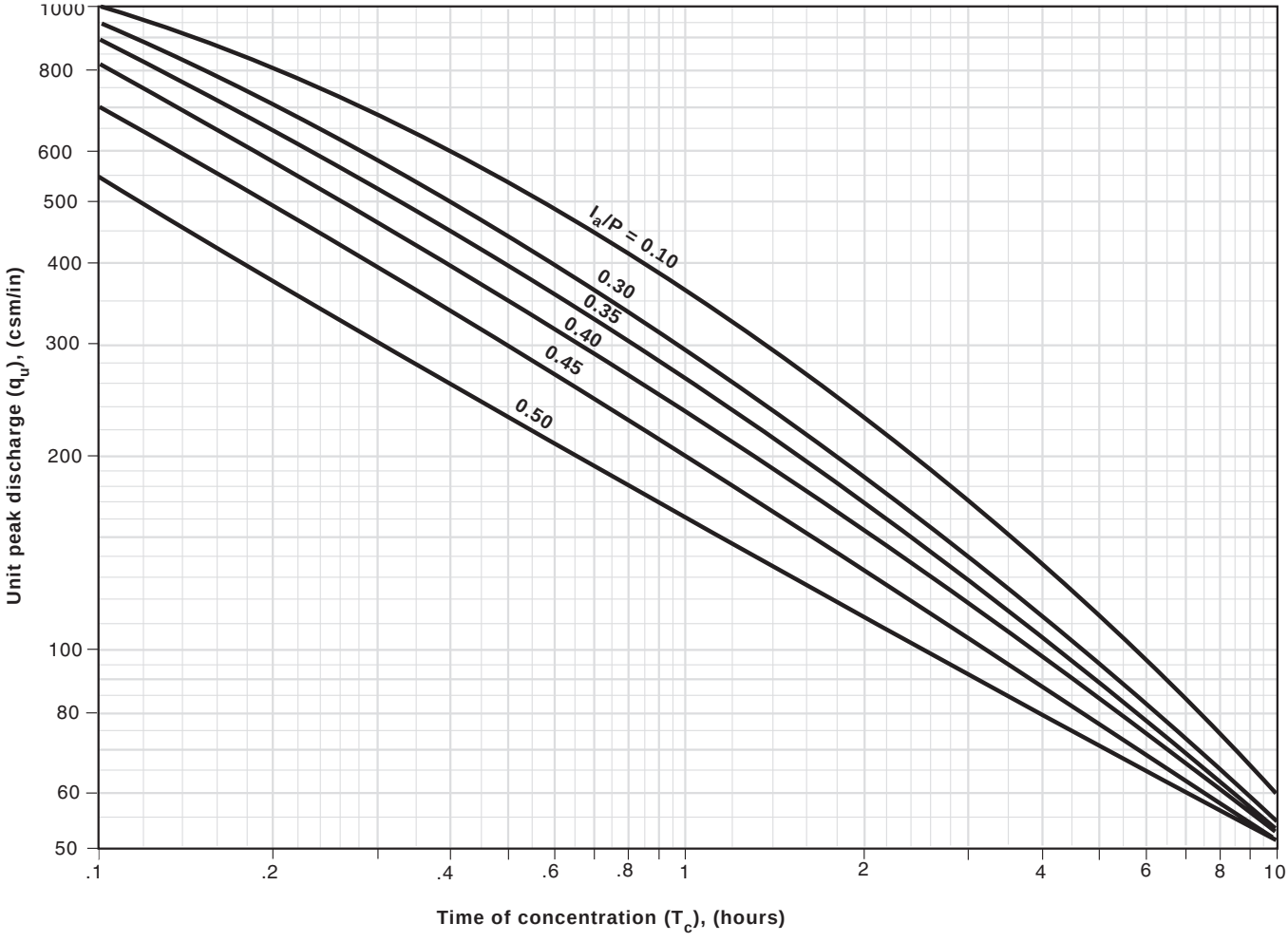


Table 4-1 I_a values for runoff curve numbers

Curve number	I_a (in)	Curve number	I_a (in)
40	3.000	70	0.857
41	2.878	71	0.817
42	2.762	72	0.778
43	2.651	73	0.740
44	2.545	74	0.703
45	2.444	75	0.667
46	2.348	76	0.632
47	2.255	77	0.597
48	2.167	78	0.564
49	2.082	79	0.532
50	2.000	80	0.500
51	1.922	81	0.469
52	1.846	82	0.439
53	1.774	83	0.410
54	1.704	84	0.381
55	1.636	85	0.353
56	1.571	86	0.326
57	1.509	87	0.299
58	1.448	88	0.273
59	1.390	89	0.247
60	1.333	90	0.222
61	1.279	91	0.198
62	1.226	92	0.174
63	1.175	93	0.151
64	1.125	94	0.128
65	1.077	95	0.105
66	1.030	96	0.083
67	0.985	97	0.062
68	0.941	98	0.041
69	0.899		

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Exhibit 4-II Unit peal discharge (q_u) for NRCS (SCS) type II rainfall distribution



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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)?.....	No
Design Point:	
P=	1.80 inch

Manually enter P, Total Area and Impervious Cover.

Breakdown of Subcatchments

Catchment Number	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	Description
1	3.03	1.97	65%	0.64	12,575	
2						
3						
4						
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	3.03	1.97	65%	0.64	**12,575**	**Subtotal 1**
Total	3.03	1.97	65%	0.64	**12,575**	**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	3.03	1.97	*Up to 100 sf directly connected impervious area may be subtracted per tree*
Total	**3.03**	**1.97**	

Recalculate WQv after application of Area Reduction Techniques

	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Runoff Coefficient Rv	WQv *(ft^3)*
"<<Initial WQv"	3.03	1.97	65%	0.64	12,575
Subtract Area	-3.03	-1.97			
WQv adjusted after Area Reductions	**0.00**	**0.00**	0%	0.05	0
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	0.00	0.00	0%	0.05	**0**

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Minimum RRv

Enter the Soils Data for the site		
Soil Group	Acres	S
A		55%
B		40%
C		30%
D	**3.03**	20%
Total Area	3.03	
Calculate the Minimum RRv		
S =	**0.20**	
Impervious =	1.97	*acre*
Precipitation	1.8	*in*
Rv	0.95	
Minimum RRv	**2,446**	***ft3***
	0.06	af

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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	3.03	1.97	0.65	0.64	12574.68	1.80	
Enter Impervious Area Reduced by Disconnection of Rooftops		0.00	65%	0.64	12,575	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.					0	*ft^3*	

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

Calculate the Minimum Filter Area				
		Value	Units	Notes
WQv		12,575	*ft^3*	
Enter Depth of Soil Media	*df*	2.5	*ft*	*2.5-4 ft*
Enter Hydraulic Conductivity	*k*	0.5	*ft/day*	
Enter Average Height of Ponding	*hf*	0.25	*ft*	*6 inches max.*
Enter Filter Time	*tf*	2	*days*	
Required Filter Area	***Af***	**11432**	***ft^2***	

Determine Actual Bio-Retention Area			
Filter Width	96.25	*ft*	
Filter Length	96.27	*ft*	
Filter Area	9265.9875	*ft^2*	
Actual Volume Provided	10193	*ft^3*	

Determine Runoff Reduction				
Is the Bioretention contributing flow to another practice?		No	Select Practice	N/A
RRv	4,077			
RRv applied	**4,077**	***ft^3***	***This is 40% of the storage provided or WQv whichever is less.***	
Volume Treated	8,498	*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	
Sizing √	Error		*Check to be sure Area provided ≥ Af*	

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Stormwater Runoff Summaries and Runoff Delineation Maps

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Metadata for Point

Smoothing	Yes
State	New York
Location	New York, United States
Latitude	42.996 degrees North
Longitude	78.817 degrees West
Elevation	170 feet
Date/Time	Mon Nov 13 2023 09:29:03 GMT-0500 (Eastern Standard Time)

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.26	0.41	0.50	0.66	0.82	1.00	**1yr**	0.71	0.93	1.13	1.34	1.56	1.80	2.09	**1yr**	1.60	2.01	2.42	2.91	3.39	**1yr**
2yr	0.30	0.47	0.58	0.77	0.96	1.18	**2yr**	0.83	1.08	1.34	1.59	1.87	2.18	2.46	**2yr**	1.93	2.36	2.78	3.31	3.80	**2yr**
5yr	0.36	0.56	0.70	0.94	1.20	1.48	**5yr**	1.03	1.35	1.67	1.98	2.30	2.65	3.00	**5yr**	2.34	2.89	3.37	3.97	4.54	**5yr**
10yr	0.40	0.63	0.80	1.09	1.42	1.76	**10yr**	1.22	1.61	1.98	2.34	2.70	3.07	3.49	**10yr**	2.72	3.36	3.90	4.56	5.19	**10yr**
25yr	0.48	0.76	0.96	1.33	1.77	2.20	**25yr**	1.53	2.01	2.48	2.90	3.32	3.73	4.27	**25yr**	3.30	4.10	4.74	5.48	6.20	**25yr**
50yr	0.54	0.87	1.11	1.55	2.09	2.60	**50yr**	1.81	2.39	2.94	3.42	3.88	4.33	4.97	**50yr**	3.83	4.78	5.49	6.30	7.10	**50yr**
100yr	0.61	0.99	1.28	1.82	2.48	3.10	**100yr**	2.14	2.84	3.49	4.04	4.55	5.03	5.79	**100yr**	4.45	5.57	6.36	7.24	8.13	**100yr**
200yr	0.71	1.15	1.49	2.14	2.95	3.68	**200yr**	2.54	3.39	4.14	4.77	5.33	5.84	6.75	**200yr**	5.17	6.49	7.37	8.32	9.31	**200yr**
500yr	0.85	1.39	1.82	2.64	3.70	4.62	**500yr**	3.19	4.27	5.19	5.93	6.57	7.13	8.26	**500yr**	6.31	7.95	8.96	10.01	11.14	**500yr**

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.23	0.35	0.42	0.57	0.70	0.87	**1yr**	0.61	0.85	0.86	1.15	1.44	1.62	1.90	**1yr**	1.44	1.83	2.08	2.63	3.10	**1yr**
2yr	0.29	0.45	0.55	0.75	0.92	1.06	**2yr**	0.80	1.04	1.16	1.42	1.71	2.10	2.35	**2yr**	1.86	2.26	2.67	3.19	3.66	**2yr**
5yr	0.33	0.51	0.63	0.86	1.10	1.26	**5yr**	0.95	1.23	1.38	1.67	2.01	2.43	2.71	**5yr**	2.15	2.60	3.03	3.61	4.08	**5yr**
10yr	0.36	0.55	0.68	0.95	1.23	1.42	**10yr**	1.06	1.39	1.56	1.87	2.26	2.71	3.01	**10yr**	2.40	2.89	3.32	3.95	4.41	**10yr**
25yr	0.41	0.62	0.77	1.10	1.45	1.67	**25yr**	1.25	1.64	1.81	2.18	2.64	3.12	3.44	**25yr**	2.76	3.31	3.73	4.42	4.84	**25yr**
50yr	0.45	0.68	0.84	1.21	1.63	1.88	**50yr**	1.41	1.84	2.02	2.43	2.95	3.47	3.82	**50yr**	3.07	3.67	4.05	4.82	5.18	**50yr**
100yr	0.49	0.74	0.92	1.33	1.83	2.12	**100yr**	1.58	2.07	2.25	2.70	3.31	3.88	4.21	**100yr**	3.43	4.05	4.39	5.25	5.53	**100yr**
200yr	0.53	0.80	1.02	1.47	2.06	2.40	**200yr**	1.77	2.34	2.49	2.99	3.69	4.34	4.65	**200yr**	3.84	4.47	4.74	5.69	5.88	**200yr**
500yr	0.60	0.90	1.16	1.68	2.39	2.81	**500yr**	2.06	2.74	2.83	3.40	4.23	5.08	5.31	**500yr**	4.50	5.11	5.18	6.32	6.32	**500yr**

Upper Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.30	0.46	0.56	0.75	0.93	1.07	**1yr**	0.80	1.05	1.20	1.41	1.70	1.93	2.33	**1yr**	1.71	2.24	2.61	3.09	3.63	**1yr**
2yr	0.31	0.49	0.60	0.81	1.00	1.16	**2yr**	0.86	1.13	1.28	1.56	1.86	2.28	2.58	**2yr**	2.02	2.48	2.95	3.48	4.03	**2yr**
5yr	0.39	0.60	0.74	1.02	1.30	1.53	**5yr**	1.12	1.50	1.68	2.06	2.44	2.88	3.31	**5yr**	2.55	3.18	3.75	4.36	5.04	**5yr**
10yr	0.46	0.71	0.88	1.22	1.58	1.89	**10yr**	1.37	1.84	2.09	2.55	3.01	3.45	4.01	**10yr**	3.05	3.86	4.52	5.17	6.02	**10yr**
25yr	0.58	0.89	1.10	1.58	2.07	2.51	**25yr**	1.79	2.45	2.79	3.39	3.98	4.40	5.18	**25yr**	3.89	4.98	5.84	6.52	7.63	**25yr**
50yr	0.69	1.05	1.31	1.88	2.53	3.11	**50yr**	2.18	3.04	3.47	4.22	4.91	5.28	6.28	**50yr**	4.68	6.04	7.10	7.79	9.17	**50yr**
100yr	0.83	1.25	1.56	2.26	3.10	3.85	**100yr**	2.68	3.77	4.33	5.24	6.07	6.33	7.62	**100yr**	5.60	7.33	8.59	9.30	10.98	**100yr**
200yr	0.99	1.48	1.88	2.72	3.80	4.78	**200yr**	3.28	4.67	5.42	6.54	7.50	7.57	9.24	**200yr**	6.70	8.88	10.46	11.13	13.20	**200yr**
500yr	1.25	1.87	2.40	3.49	4.96	6.37	**500yr**	4.28	6.22	7.30	8.75	9.94	9.62	11.94	**500yr**	8.52	11.48	13.59	14.13	16.77	**500yr**

Powered by ACIS Northeast Regional Climate Center

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINAWOOD
DESIGN

24-4099 AMHERST DEVELOPMENT PARK 11/15/23

STORMWATER DRAINAGE ANALYSIS

-PROJECTED GROWTH REDEVELOPMENT SCENARIO-

- USE MEDIAN CURVE NUMBER (CN) FOR EXISTING RUNOFF AREAS

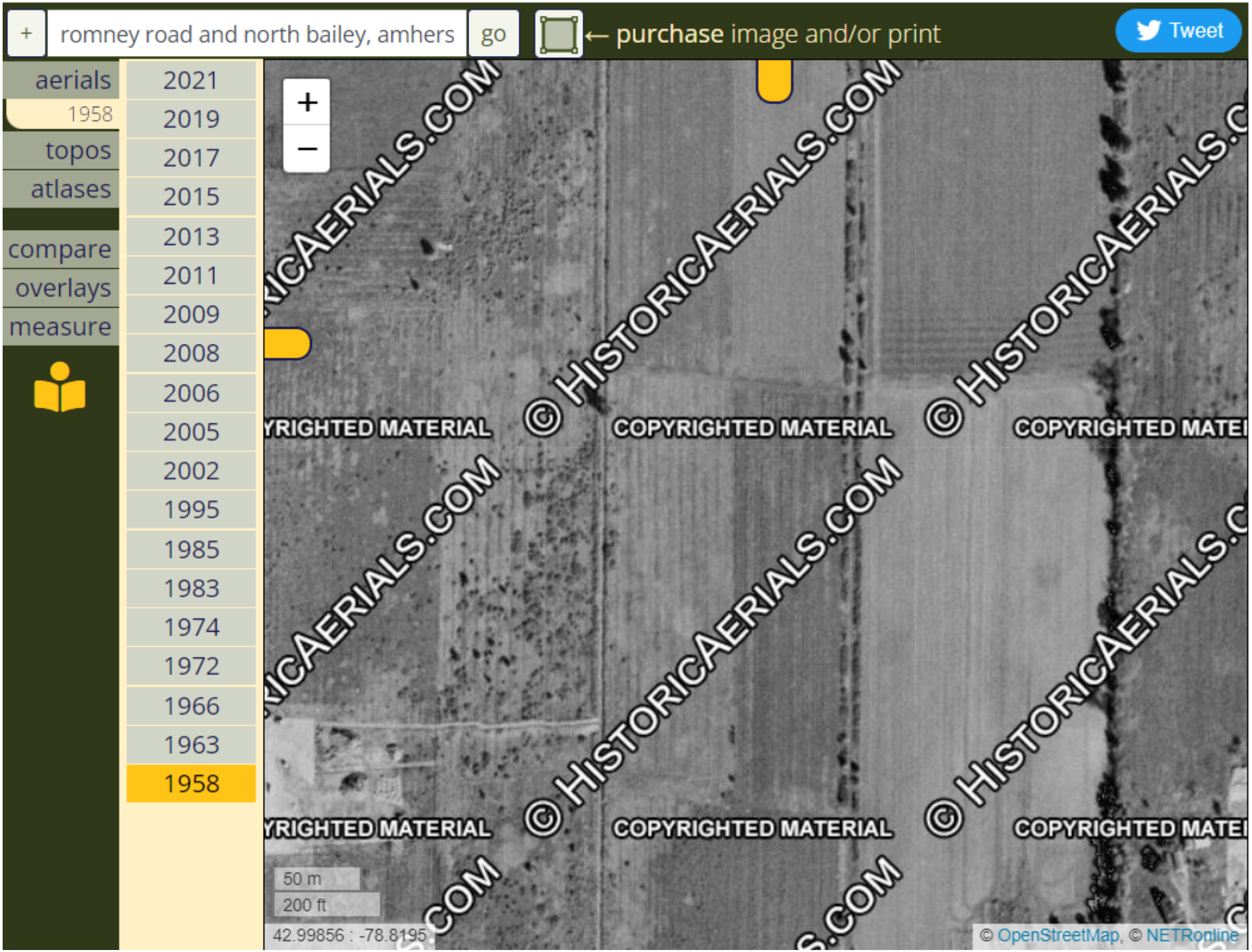
  50% RUNOFF RATE EXISTING LAND COVER
  50% PRIOR TO DEVELOPMENT (1958 HISTORIC AERIAL)
  MEADOW / FARM FIELD

- TOTAL EXISTING AREA = 6.95 AC.

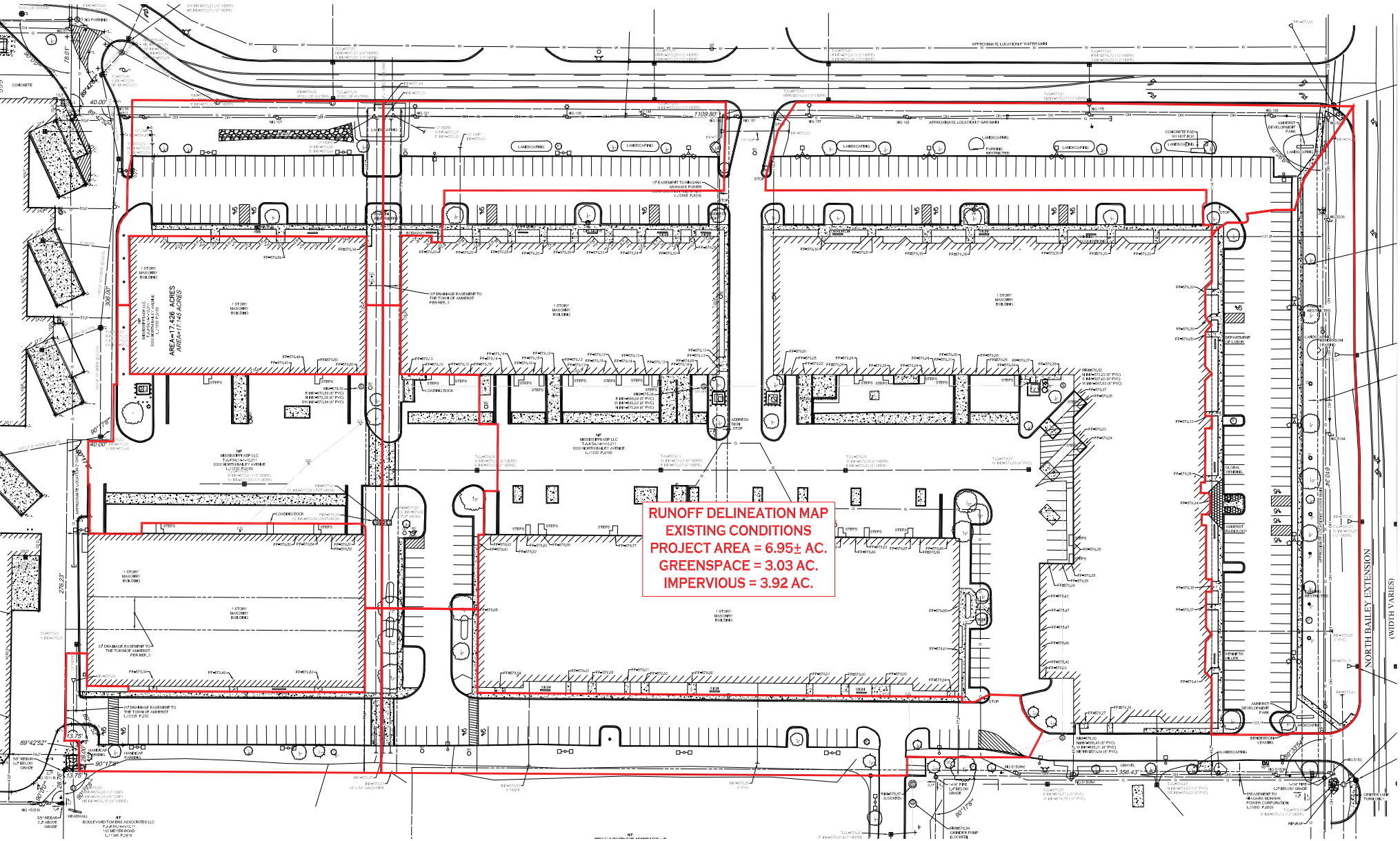
  GRASS/LANDSCAPED = 3.03 AC.
  IMPERVIOUS = 3.92 AC.

(15) APPLY MEDIAN CN: MEADOW/FARM FIELD = 3.48 AC.
GRASS/LANDSCAPED = 1.52 AC.
IMPERVIOUS = 1.95 AC.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey

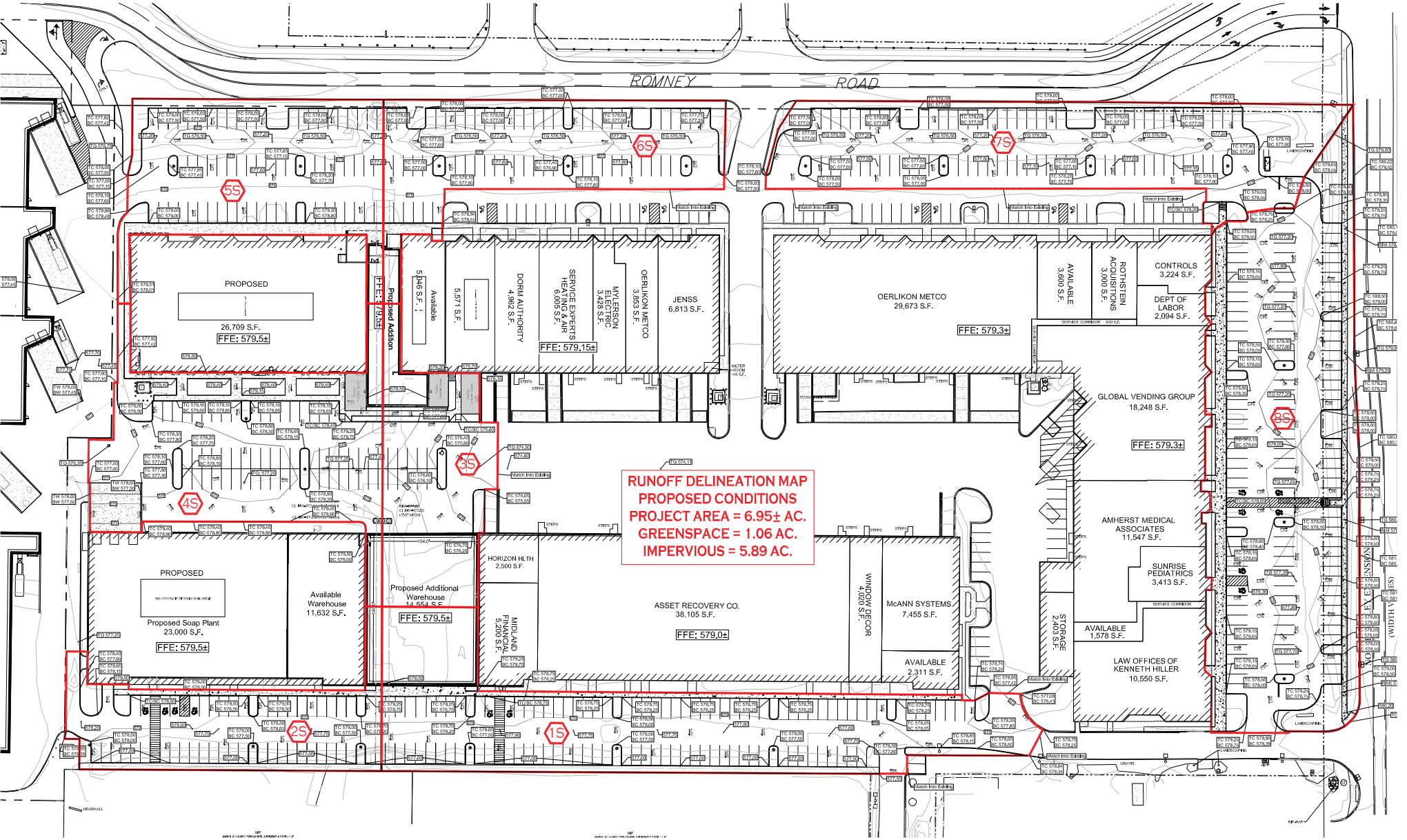


Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey

Events for Subcatchment 1S: Existing Site

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-Year	1.80	8.12	0.378	0.65
2-Year	2.18	11.64	0.538	0.93
5-Year	2.65	16.25	0.752	1.30
10-Year	3.07	20.51	0.954	1.65
25-Year	3.73	27.36	1.285	2.22
50-Year	4.33	33.68	1.595	2.75
100-Year	**5.03**	**41.10**	**1.967**	**3.40**

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey

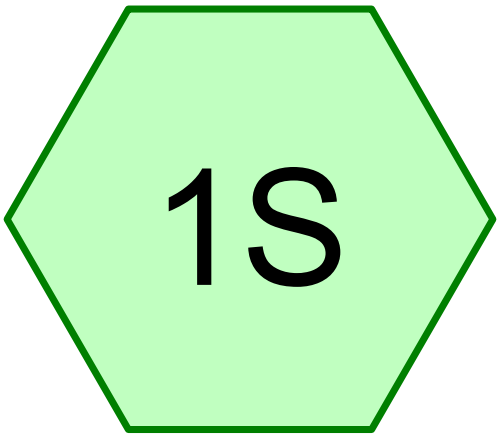
Events for Pond 1P: Detention Storage & Outlet

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)	10% Escalation (cfs)
1-Year	15.93	7.30	572.35	10,004	8.03
2-Year	20.03	9.40	572.49	12,348	10.34
5-Year	25.06	11.90	572.66	15,215	13.09
10-Year	29.54	13.54	572.83	17,843	14.89
25-Year	36.53	18.03	573.09	21,706	19.83
50-Year	42.86	21.83	573.37	25,076	24.01
100-Year	**50.20**	**25.60**	**573.83**	**29,010**	28.16

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

HydroCAD Analysis

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



Existing Site

Subcat Reach Pond Link

Routing Diagram for 23-4099 Existing
Prepared by Carmina Wood Morris, PC, Printed 11/15/2023
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Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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	1.80	2
2	10-Year	Type II 24-hr		Default	24.00	1	3.07	2
3	25-Year	Type II 24-hr		Default	24.00	1	3.73	2
4	100-Year	Type II 24-hr		Default	24.00	1	5.03	2

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.520	84	50-75% Grass cover, Fair, HSG D (1S)
1.950	98	Impervious (1S)
3.480	78	Meadow, non-grazed, HSG D (1S)
6.950	**85**	**TOTAL AREA**

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
5.000	HSG D	1S
1.950	Other	1S
6.950		**TOTAL AREA**

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchmen Numbers
0.000	0.000	0.000	1.520	0.000	1.520	50-75% Grass cover, Fair	1S
0.000	0.000	0.000	0.000	1.950	1.950	Impervious	1S
0.000	0.000	0.000	3.480	0.000	3.480	Meadow, non-grazed	1S
0.000	**0.000**	**0.000**	**5.000**	**1.950**	**6.950**	**TOTAL AREA**	

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.05 hrs, 1001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Existing Site Runoff Area=6.950 ac 28.06% Impervious Runoff Depth=0.65"
Flow Length=150' Slope=0.0100 '/' Tc=5.0 min CN=85 Runoff=8.12 cfs 0.378 af

Total Runoff Area = 6.950 ac Runoff Volume = 0.378 af Average Runoff Depth = 0.65"
71.94% Pervious = 5.000 ac 28.06% Impervious = 1.950 ac

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Existing Site

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

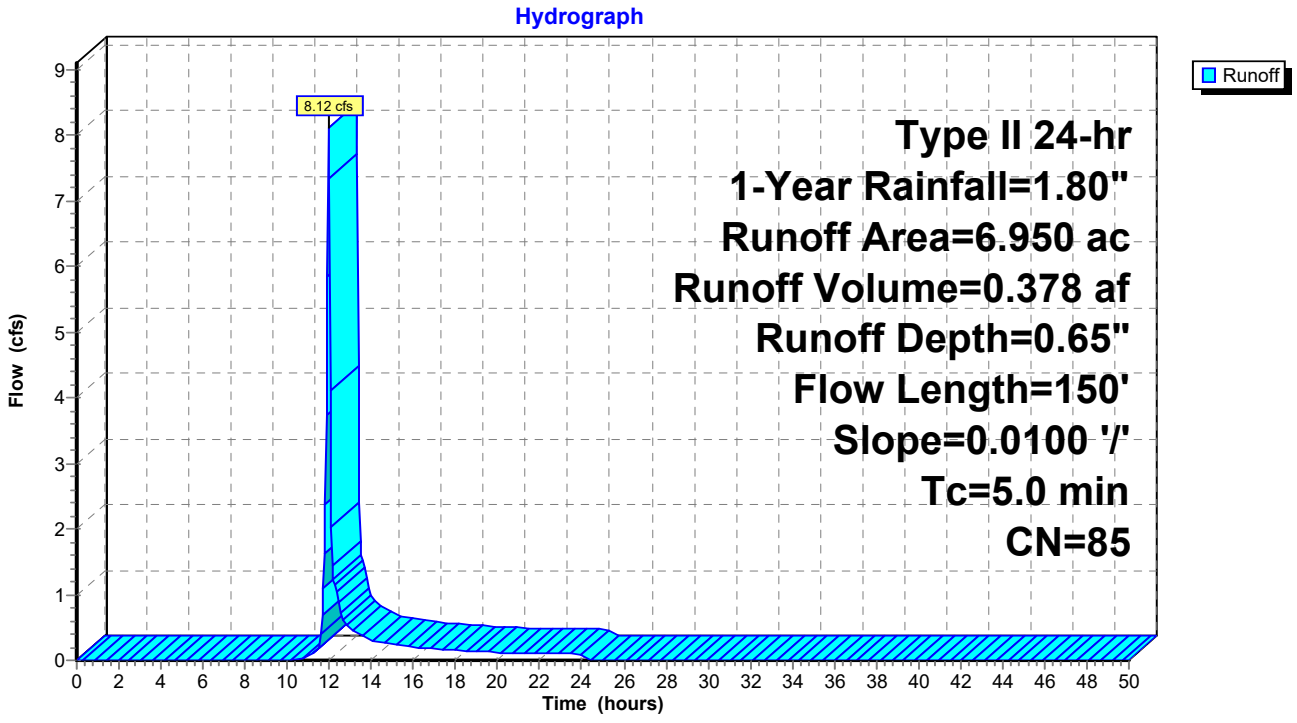
Runoff = 8.12 cfs @ 11.96 hrs, Volume= 0.378 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	3.480	78	Meadow, non-grazed, HSG D
	1.520	84	50-75% Grass cover, Fair, HSG D
*	1.950	98	Impervious
	6.950	85	Weighted Average
	5.000		71.94% Pervious Area
	1.950		28.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	150	0.0100	1.00		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
2.5	150	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.05 hrs, 1001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Existing Site Runoff Area=6.950 ac 28.06% Impervious Runoff Depth=1.65"
Flow Length=150' Slope=0.0100 '/' Tc=5.0 min CN=85 Runoff=20.51 cfs 0.954 af

Total Runoff Area = 6.950 ac Runoff Volume = 0.954 af Average Runoff Depth = 1.65"
71.94% Pervious = 5.000 ac 28.06% Impervious = 1.950 ac

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Existing Site

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

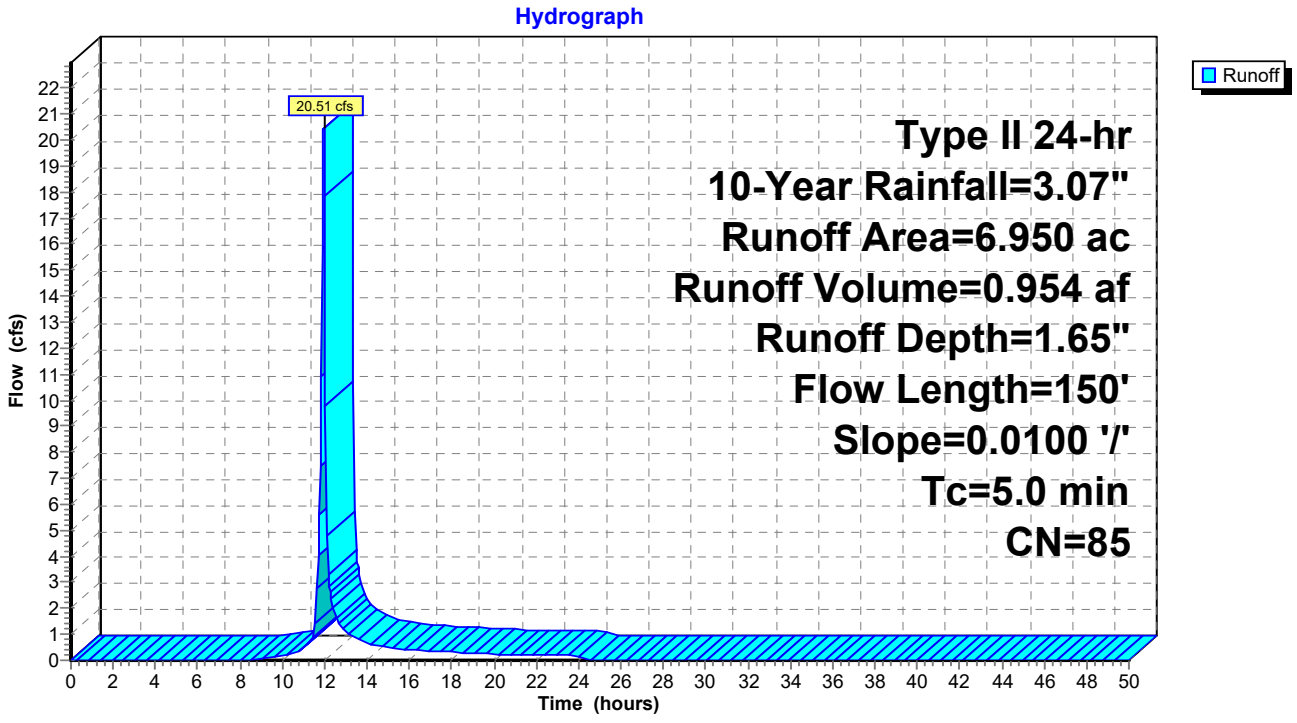
Runoff = 20.51 cfs @ 11.96 hrs, Volume= 0.954 af, Depth= 1.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	3.480	78	Meadow, non-grazed, HSG D
	1.520	84	50-75% Grass cover, Fair, HSG D
*	1.950	98	Impervious
	6.950	85	Weighted Average
	5.000		71.94% Pervious Area
	1.950		28.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	150	0.0100	1.00		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
2.5	150	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.05 hrs, 1001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Existing Site Runoff Area=6.950 ac 28.06% Impervious Runoff Depth=2.22"
Flow Length=150' Slope=0.0100 '/' Tc=5.0 min CN=85 Runoff=27.36 cfs 1.285 af

Total Runoff Area = 6.950 ac Runoff Volume = 1.285 af Average Runoff Depth = 2.22"
71.94% Pervious = 5.000 ac 28.06% Impervious = 1.950 ac

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Existing Site

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

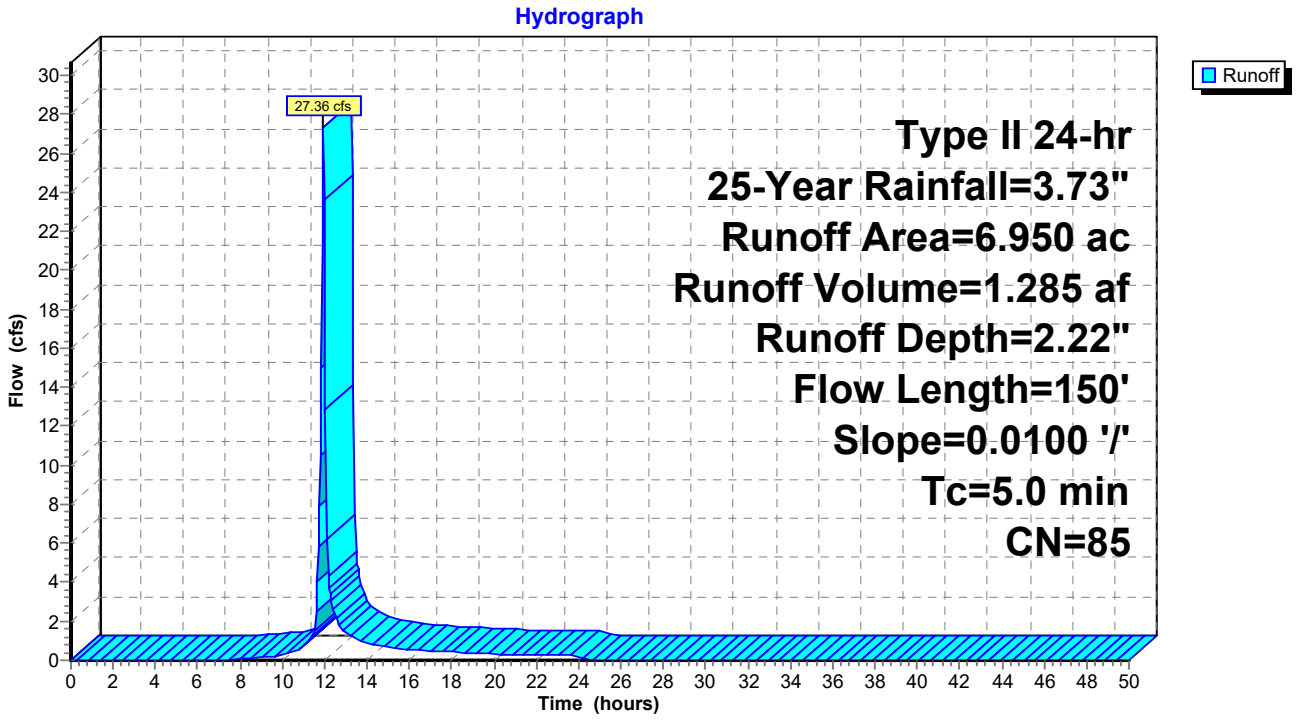
Runoff = 27.36 cfs @ 11.96 hrs, Volume= 1.285 af, Depth= 2.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	3.480	78	Meadow, non-grazed, HSG D
	1.520	84	50-75% Grass cover, Fair, HSG D
*	1.950	98	Impervious
	6.950	85	Weighted Average
	5.000		71.94% Pervious Area
	1.950		28.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	150	0.0100	1.00		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
2.5	150	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.05 hrs, 1001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Existing Site Runoff Area=6.950 ac 28.06% Impervious Runoff Depth=3.40"
Flow Length=150' Slope=0.0100 '/' Tc=5.0 min CN=85 Runoff=41.10 cfs 1.967 af

Total Runoff Area = 6.950 ac Runoff Volume = 1.967 af Average Runoff Depth = 3.40"
71.94% Pervious = 5.000 ac 28.06% Impervious = 1.950 ac

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Existing Site

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

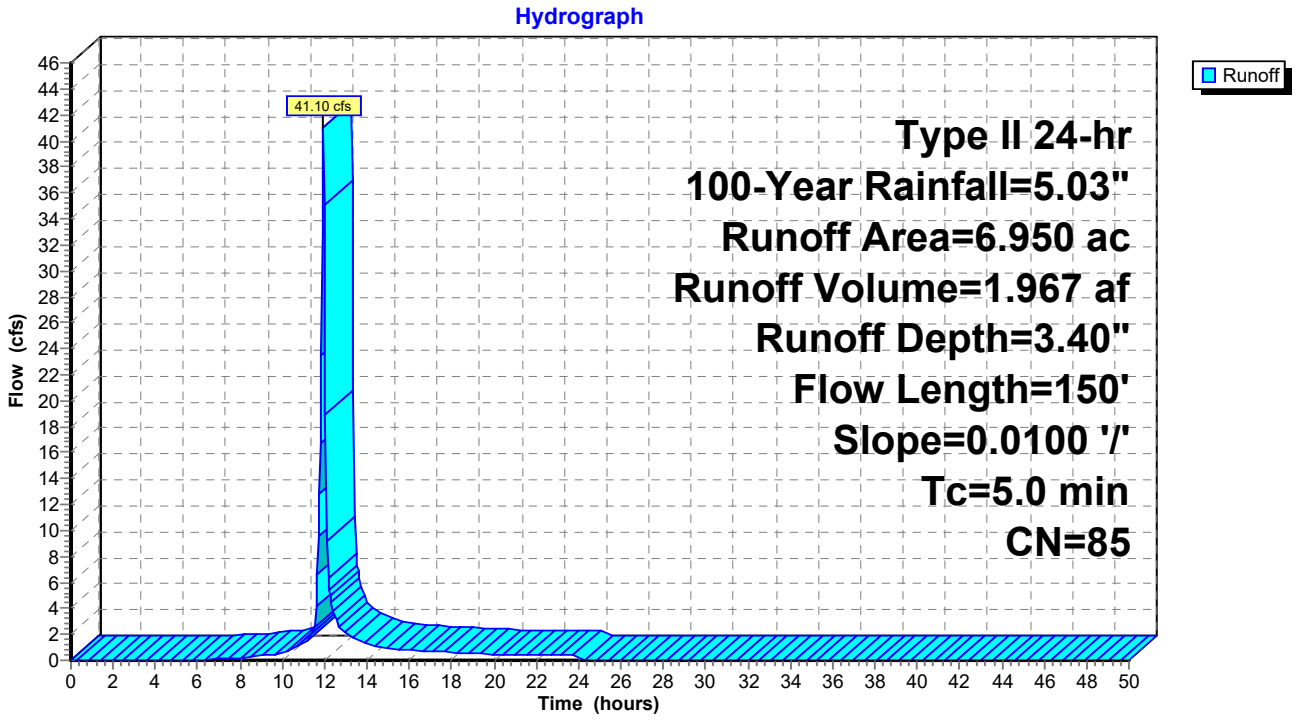
Runoff = 41.10 cfs @ 11.95 hrs, Volume= 1.967 af, Depth= 3.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-Year Rainfall=5.03"

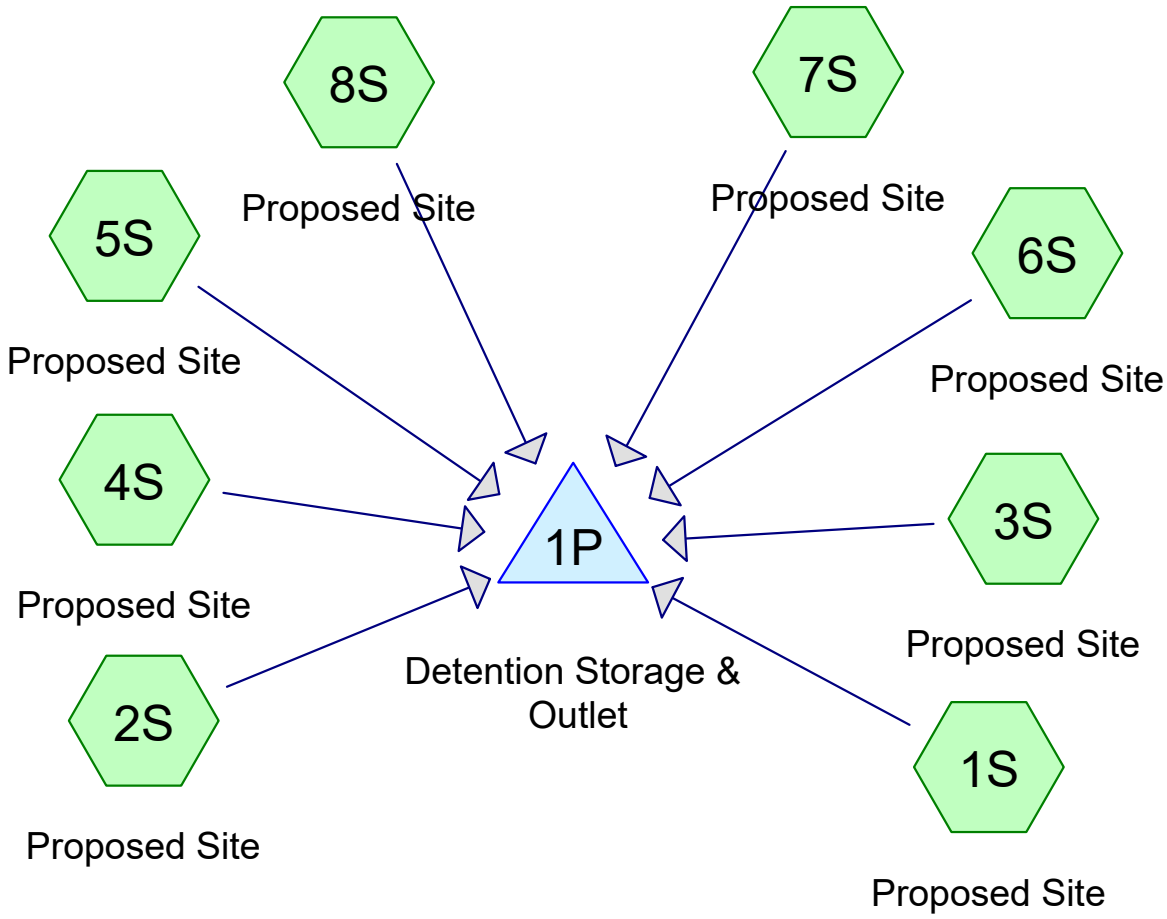
	Area (ac)	CN	Description
	3.480	78	Meadow, non-grazed, HSG D
	1.520	84	50-75% Grass cover, Fair, HSG D
*	1.950	98	Impervious
	6.950	85	Weighted Average
	5.000		71.94% Pervious Area
	1.950		28.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	150	0.0100	1.00		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
2.5	150	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Existing Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



Subcat Reach Pond Link

Routing Diagram for 23-4099 Proposed
Prepared by Carmina Wood Morris, PC, Printed 11/15/2023
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Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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	1.80	2
2	10-Year	Type II 24-hr		Default	24.00	1	3.07	2
3	25-Year	Type II 24-hr		Default	24.00	1	3.73	2
4	100-Year	Type II 24-hr		Default	24.00	1	5.03	2

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.060	80	>75% Grass cover, Good, HSG D (1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S)
5.890	98	Impervious, HSG D (1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S)
6.950	**95**	**TOTAL AREA**

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
6.950	HSG D	1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S
0.000	Other	
6.950		**TOTAL AREA**

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Ground Covers (all 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	1.060	0.000	1.060	>75% Grass cover, Good	1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S
0.000	0.000	0.000	5.890	0.000	5.890	Impervious	1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S
0.000	**0.000**	**0.000**	**6.950**	**0.000**	**6.950**	**TOTAL AREA**	

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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	571.50	571.50	10.0	0.0000	0.013	0.0	12.0	0.0

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.01 hrs, 5001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Proposed Site Runoff Area=1.120 ac 89.29% Impervious Runoff Depth=1.38"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=2.67 cfs 0.129 af

Subcatchment2S: Proposed Site Runoff Area=0.530 ac 84.91% Impervious Runoff Depth=1.29"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=1.21 cfs 0.057 af

Subcatchment3S: Proposed Site Runoff Area=0.490 ac 93.88% Impervious Runoff Depth=1.48"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=97 Runoff=1.22 cfs 0.060 af

Subcatchment4S: Proposed Site Runoff Area=0.890 ac 87.64% Impervious Runoff Depth=1.38"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=2.12 cfs 0.102 af

Subcatchment5S: Proposed Site Runoff Area=0.710 ac 87.32% Impervious Runoff Depth=1.38"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=1.69 cfs 0.082 af

Subcatchment6S: Proposed Site Runoff Area=0.670 ac 85.07% Impervious Runoff Depth=1.29"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=1.53 cfs 0.072 af

Subcatchment7S: Proposed Site Runoff Area=0.970 ac 77.32% Impervious Runoff Depth=1.21"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=2.10 cfs 0.098 af

Subcatchment8S: Proposed Site Runoff Area=1.570 ac 80.25% Impervious Runoff Depth=1.21"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=3.40 cfs 0.158 af

Pond 1P: Detention Storage & Outlet Peak Elev=572.35' Storage=10,004 cf Inflow=15.93 cfs 0.759 af
12.0" Round Culvert x 5.00 n=0.013 L=10.0' S=0.0000 '/' Outflow=7.30 cfs 0.756 af

Total Runoff Area = 6.950 ac Runoff Volume = 0.759 af Average Runoff Depth = 1.31"
15.25% Pervious = 1.060 ac 84.75% Impervious = 5.890 ac

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Proposed Site

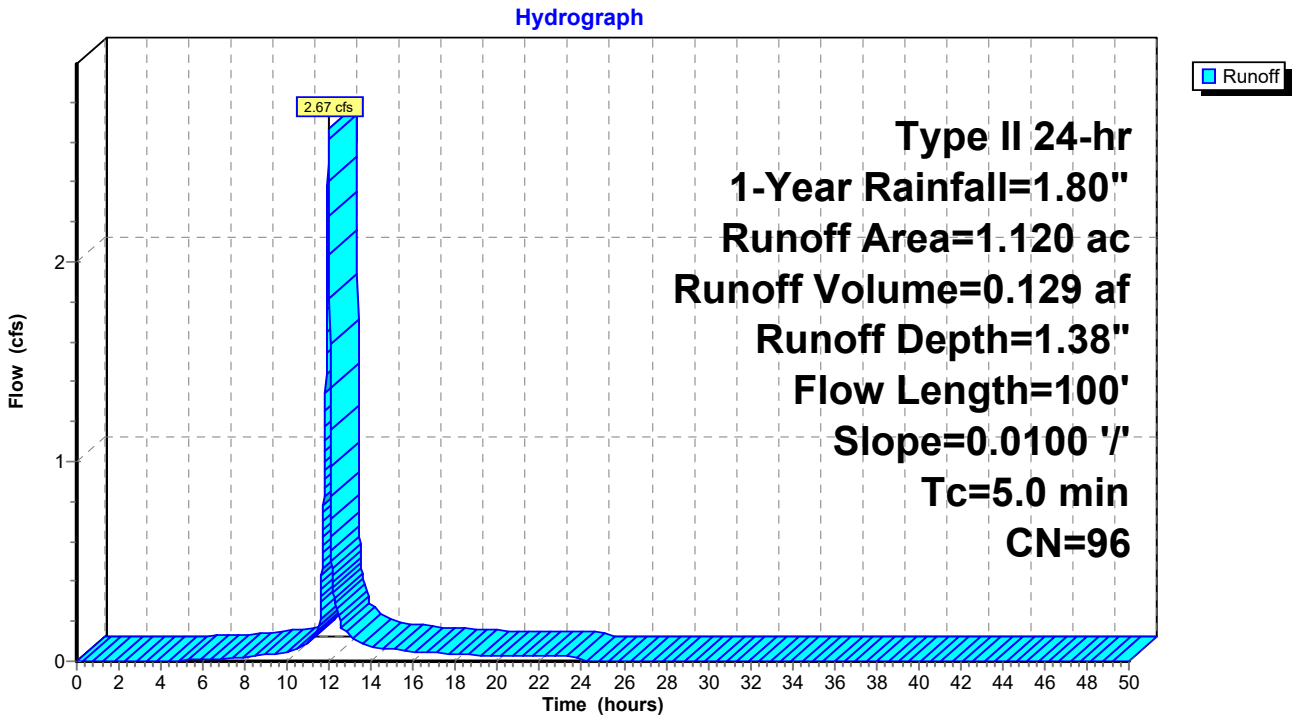
Runoff = 2.67 cfs @ 11.96 hrs, Volume= 0.129 af, Depth= 1.38"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.120	80	>75% Grass cover, Good, HSG D
*	1.000	98	Impervious, HSG D
	1.120	96	Weighted Average
	0.120		10.71% Pervious Area
	1.000		89.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 2S: Proposed Site

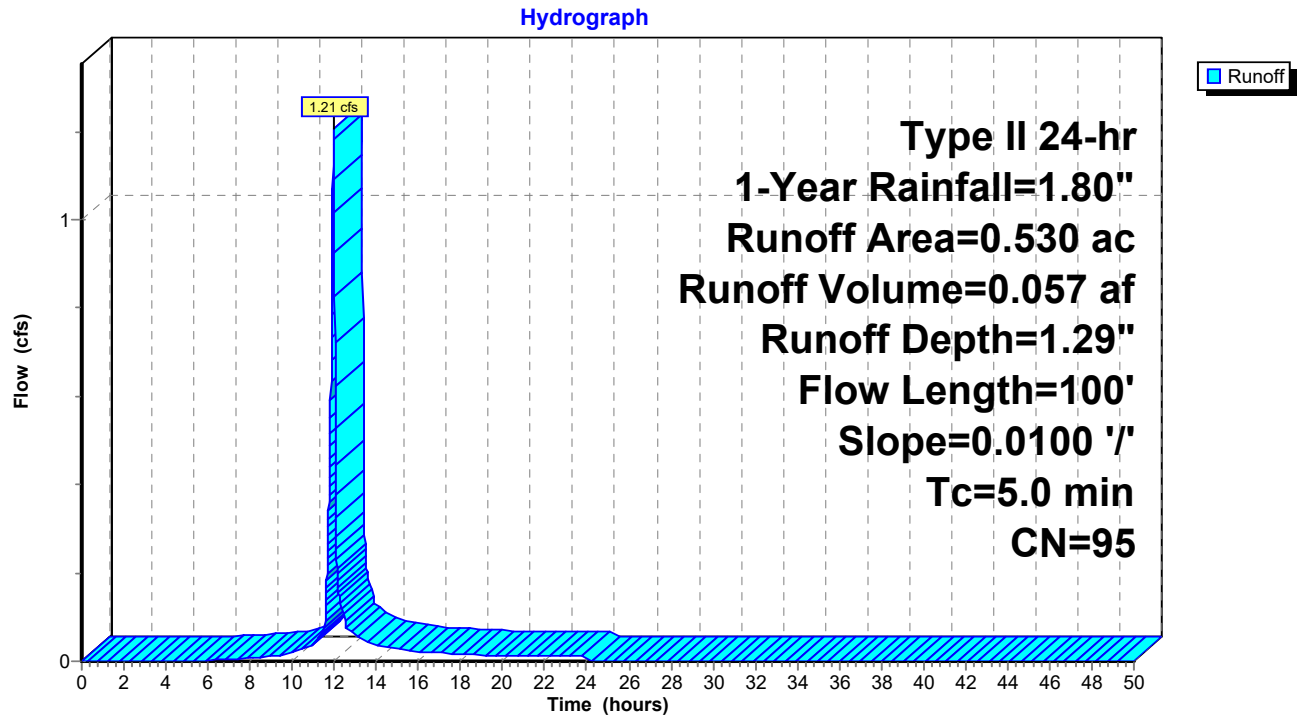
Runoff = 1.21 cfs @ 11.96 hrs, Volume= 0.057 af, Depth= 1.29"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.080	80	>75% Grass cover, Good, HSG D
*	0.450	98	Impervious, HSG D
	0.530	95	Weighted Average
	0.080		15.09% Pervious Area
	0.450		84.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 3S: Proposed Site

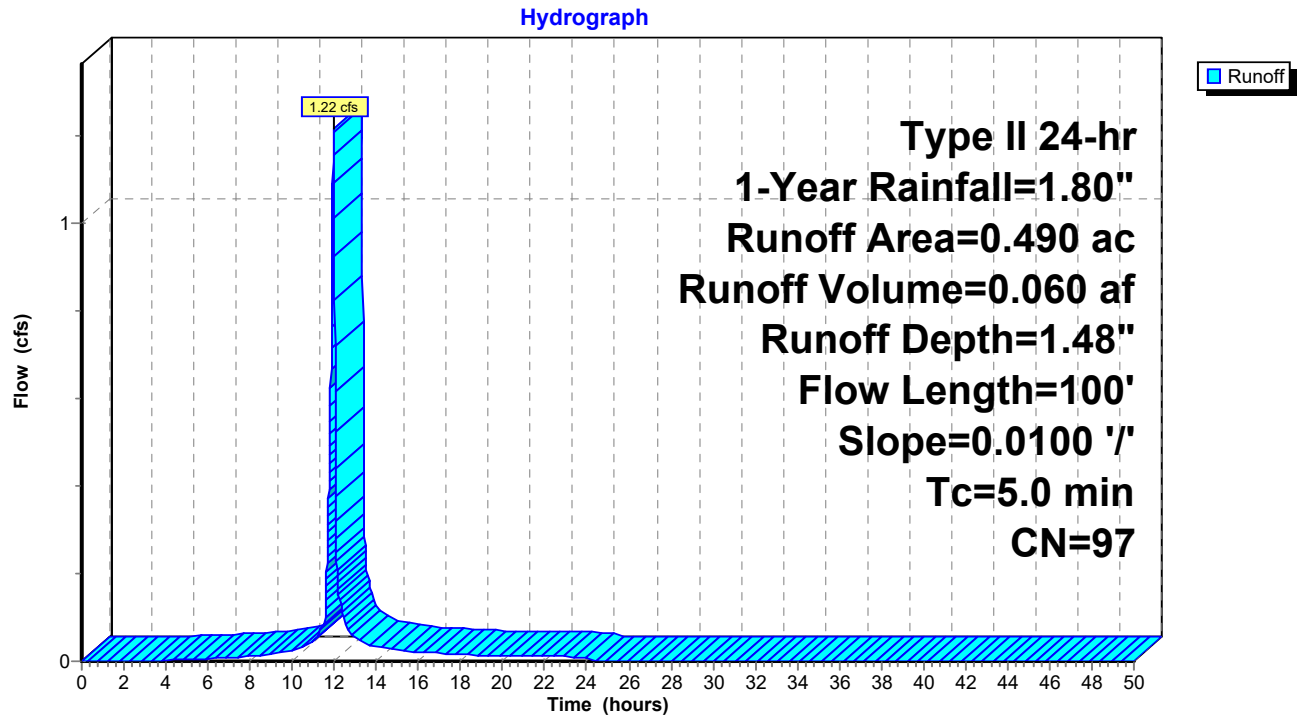
Runoff = 1.22 cfs @ 11.96 hrs, Volume= 0.060 af, Depth= 1.48"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.030	80	>75% Grass cover, Good, HSG D
*	0.460	98	Impervious, HSG D
	0.490	97	Weighted Average
	0.030		6.12% Pervious Area
	0.460		93.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 3S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 4S: Proposed Site

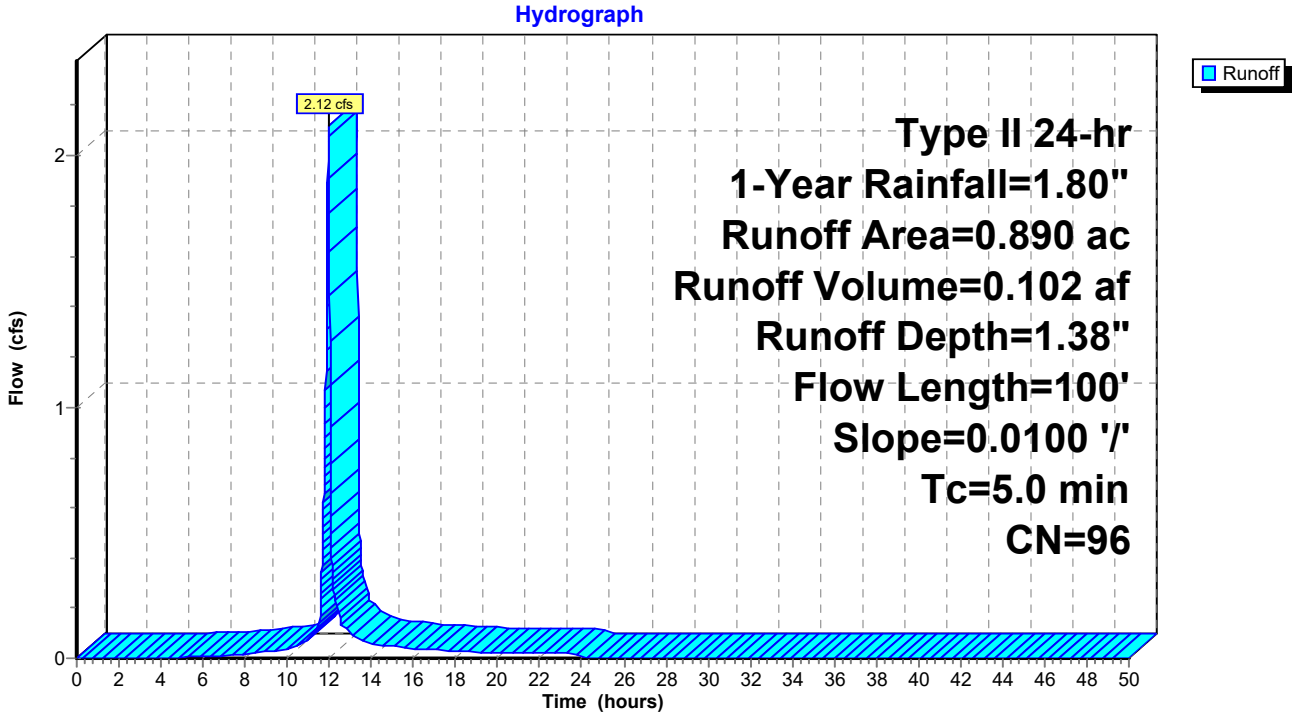
Runoff = 2.12 cfs @ 11.96 hrs, Volume= 0.102 af, Depth= 1.38"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.110	80	>75% Grass cover, Good, HSG D
*	0.780	98	Impervious, HSG D
	0.890	96	Weighted Average
	0.110		12.36% Pervious Area
	0.780		87.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 4S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 5S: Proposed Site

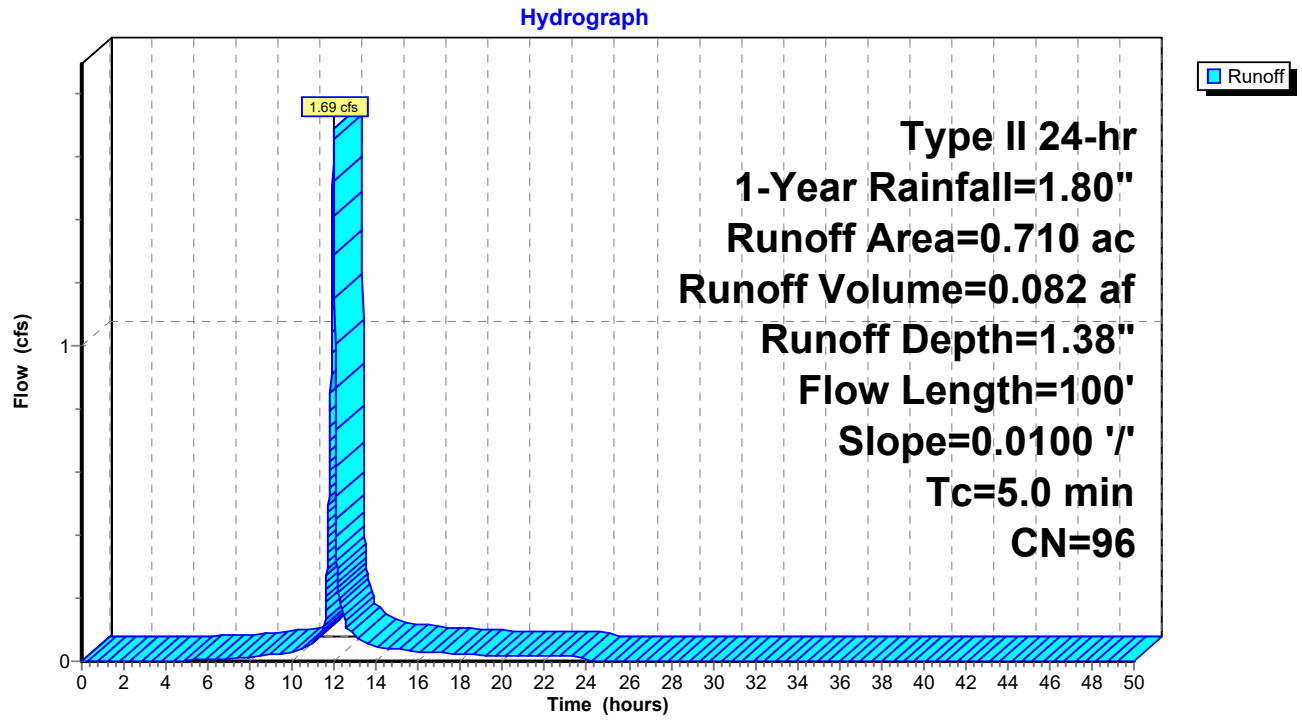
Runoff = 1.69 cfs @ 11.96 hrs, Volume= 0.082 af, Depth= 1.38"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.090	80	>75% Grass cover, Good, HSG D
*	0.620	98	Impervious, HSG D
	0.710	96	Weighted Average
	0.090		12.68% Pervious Area
	0.620		87.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 5S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 6S: Proposed Site

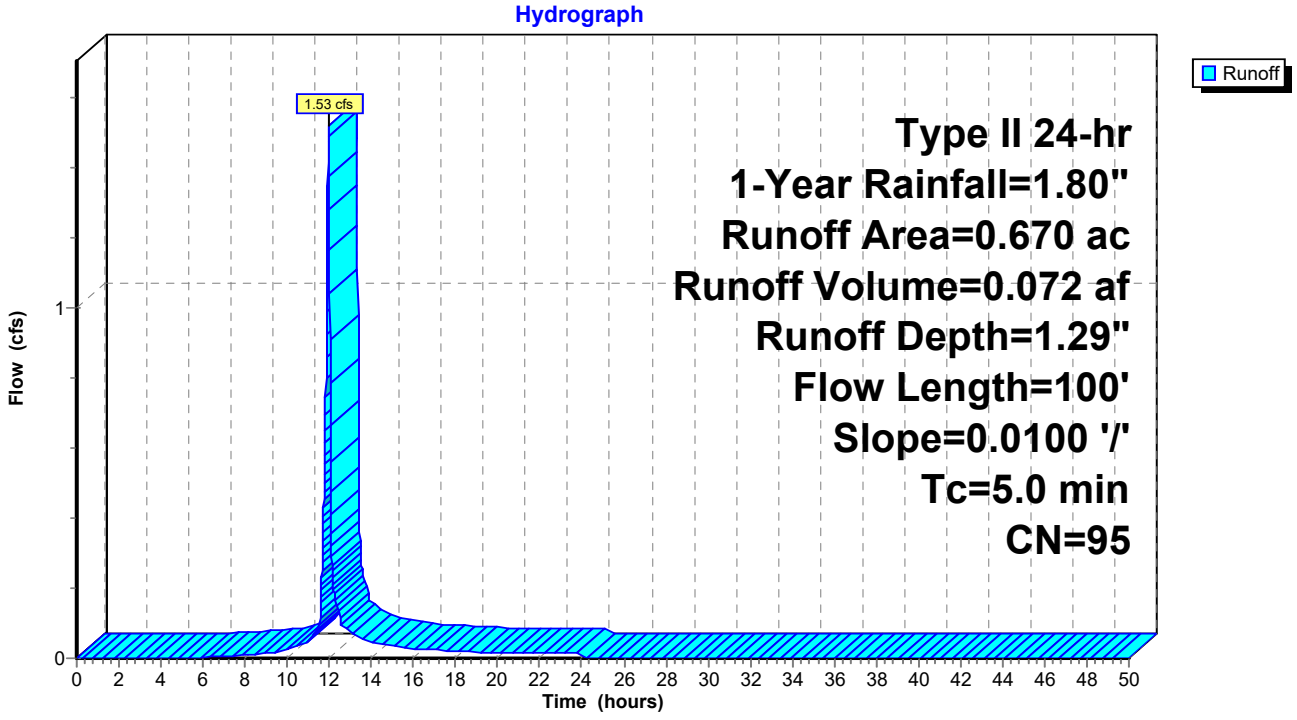
Runoff = 1.53 cfs @ 11.96 hrs, Volume= 0.072 af, Depth= 1.29"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.100	80	>75% Grass cover, Good, HSG D
*	0.570	98	Impervious, HSG D
	0.670	95	Weighted Average
	0.100		14.93% Pervious Area
	0.570		85.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 6S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 7S: Proposed Site

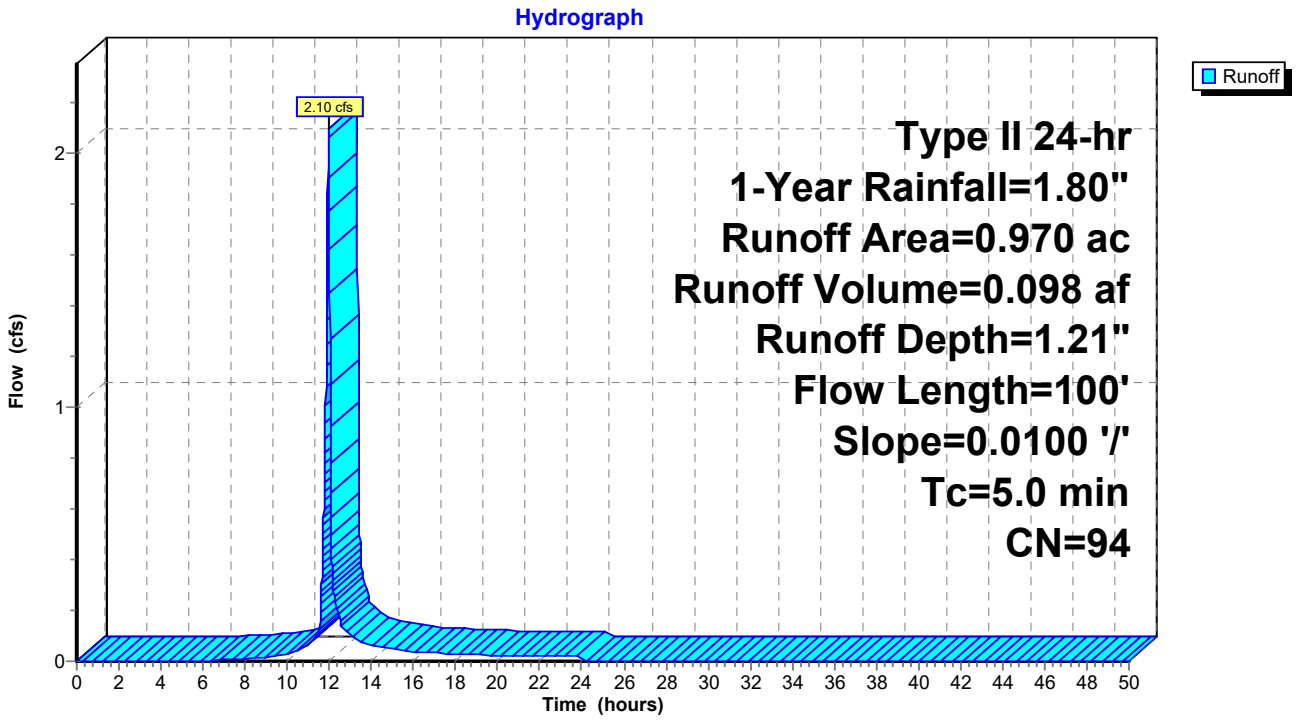
Runoff = 2.10 cfs @ 11.96 hrs, Volume= 0.098 af, Depth= 1.21"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.220	80	>75% Grass cover, Good, HSG D
*	0.750	98	Impervious, HSG D
	0.970	94	Weighted Average
	0.220		22.68% Pervious Area
	0.750		77.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 7S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 8S: Proposed Site

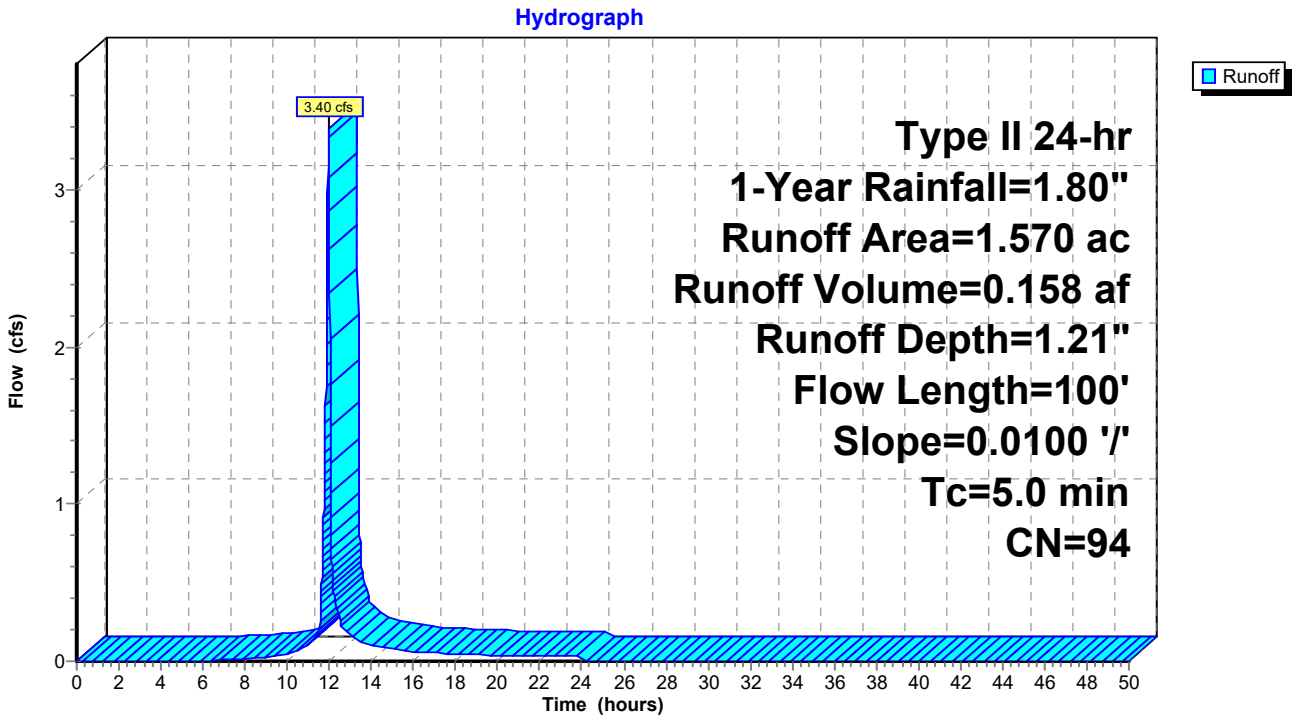
Runoff = 3.40 cfs @ 11.96 hrs, Volume= 0.158 af, Depth= 1.21"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.80"

	Area (ac)	CN	Description
	0.310	80	>75% Grass cover, Good, HSG D
*	1.260	98	Impervious, HSG D
	1.570	94	Weighted Average
	0.310		19.75% Pervious Area
	1.260		80.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 8S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Pond 1P: Detention Storage & Outlet

Inflow Area = 6.950 ac, 84.75% Impervious, Inflow Depth = 1.31" for 1-Year event
Inflow = 15.93 cfs @ 11.96 hrs, Volume= 0.759 af
Outflow = 7.30 cfs @ 12.05 hrs, Volume= 0.756 af, Atten= 54%, Lag= 5.3 min
Primary = 7.30 cfs @ 12.05 hrs, Volume= 0.756 af
Routed to nonexistent node 1L

Routing by Dyn-Stor-Ind method, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Peak Elev= 572.35' @ 12.05 hrs Surf.Area= 20,584 sf Storage= 10,004 cf

Plug-Flow detention time= 55.9 min calculated for 0.756 af (100% of inflow)
Center-of-Mass det. time= 53.4 min (847.4 - 793.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	571.50'	14,391 cf	**82.75'W x 248.75'L x 2.54'H Field A** 52,318 cf Overall - 16,341 cf Embedded = 35,977 cf x 40.0% Voids
#2A	572.00'	16,341 cf	**Cultec R-150XLHD** x 600 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap Row Length Adjustment= +0.75' x 2.65 sf x 25 rows
		30,732 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	571.50'	**12.0" Round Outlet Pipe X 5.00** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 571.50' / 571.50' S= 0.0000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=7.30 cfs @ 12.05 hrs HW=572.35' (Free Discharge)
↑**1=Outlet Pipe** (Barrel Controls 7.30 cfs @ 2.78 fps)

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet - Chamber Wizard Field A

Chamber Model = Cultec R-150XLHD (Cultec Recharger®150XLHD)
Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
Row Length Adjustment= +0.75' x 2.65 sf x 25 rows

33.0" Wide + 6.0" Spacing = 39.0" C-C Row Spacing

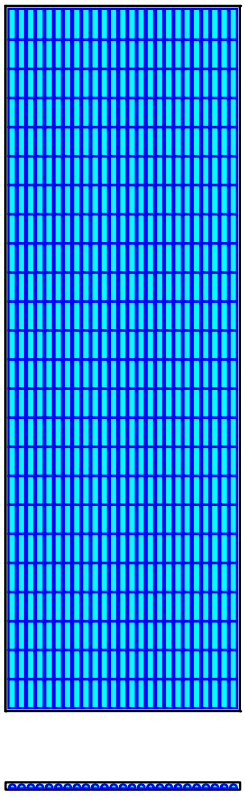
24 Chambers/Row x 10.25' Long +0.75' Row Adjustment = 246.75' Row Length +12.0" End Stone x 2 = 248.75' Base Length
25 Rows x 33.0" Wide + 6.0" Spacing x 24 + 12.0" Side Stone x 2 = 82.75' Base Width
6.0" Stone Base + 18.5" Chamber Height + 6.0" Stone Cover = 2.54' Field Height

600 Chambers x 27.2 cf +0.75' Row Adjustment x 2.65 sf x 25 Rows = 16,341.0 cf Chamber Storage

52,317.8 cf Field - 16,341.0 cf Chambers = 35,976.8 cf Stone x 40.0% Voids = 14,390.7 cf Stone Storage

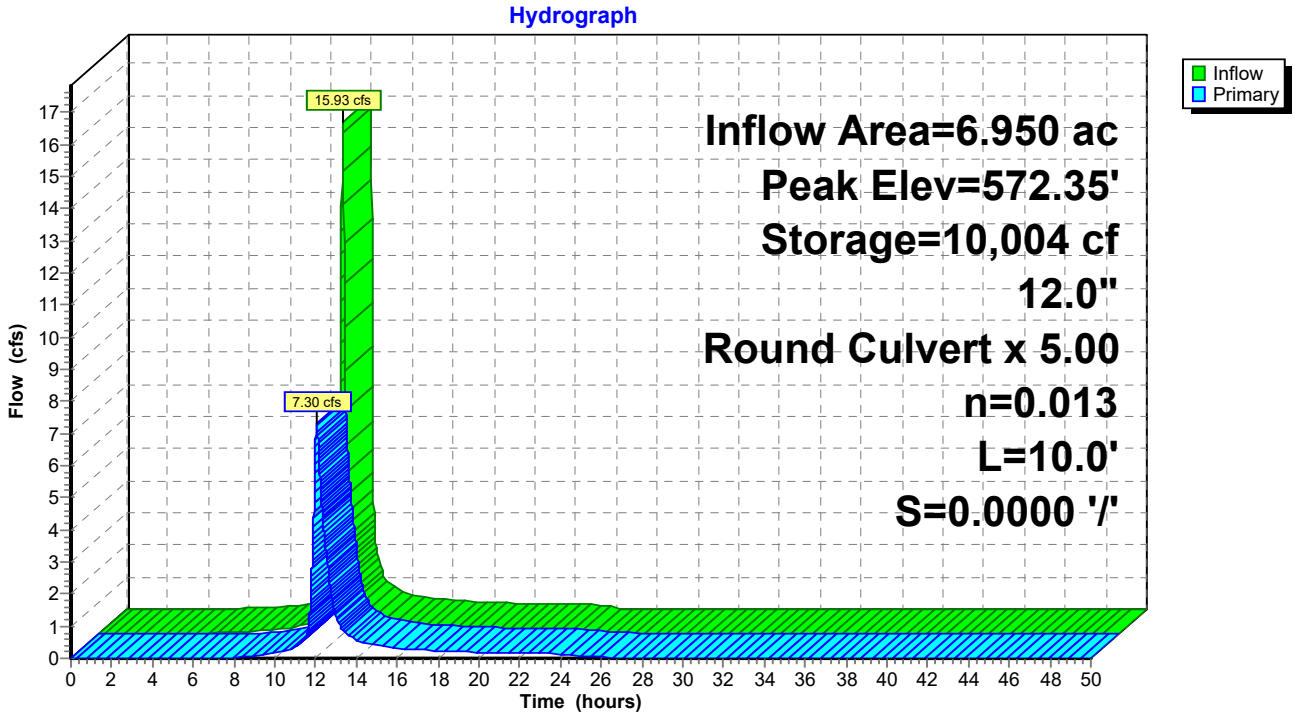
Chamber Storage + Stone Storage = 30,731.7 cf = 0.706 af
Overall Storage Efficiency = 58.7%
Overall System Size = 248.75' x 82.75' x 2.54'

600 Chambers
1,937.7 cy Field
1,332.5 cy Stone



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.01 hrs, 5001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Proposed Site Runoff Area=1.120 ac 89.29% Impervious Runoff Depth=2.62"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=4.85 cfs 0.245 af

Subcatchment2S: Proposed Site Runoff Area=0.530 ac 84.91% Impervious Runoff Depth=2.52"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=2.25 cfs 0.111 af

Subcatchment3S: Proposed Site Runoff Area=0.490 ac 93.88% Impervious Runoff Depth=2.73"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=97 Runoff=2.16 cfs 0.111 af

Subcatchment4S: Proposed Site Runoff Area=0.890 ac 87.64% Impervious Runoff Depth=2.62"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=3.86 cfs 0.194 af

Subcatchment5S: Proposed Site Runoff Area=0.710 ac 87.32% Impervious Runoff Depth=2.62"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=3.08 cfs 0.155 af

Subcatchment6S: Proposed Site Runoff Area=0.670 ac 85.07% Impervious Runoff Depth=2.52"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=2.84 cfs 0.141 af

Subcatchment7S: Proposed Site Runoff Area=0.970 ac 77.32% Impervious Runoff Depth=2.42"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=4.01 cfs 0.195 af

Subcatchment8S: Proposed Site Runoff Area=1.570 ac 80.25% Impervious Runoff Depth=2.42"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=6.50 cfs 0.316 af

Pond 1P: Detention Storage & Outlet Peak Elev=572.83' Storage=17,843 cf Inflow=29.54 cfs 1.469 af
12.0" Round Culvert x 5.00 n=0.013 L=10.0' S=0.0000 '/' Outflow=13.54 cfs 1.466 af

Total Runoff Area = 6.950 ac Runoff Volume = 1.469 af Average Runoff Depth = 2.54"
15.25% Pervious = 1.060 ac 84.75% Impervious = 5.890 ac

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Proposed Site

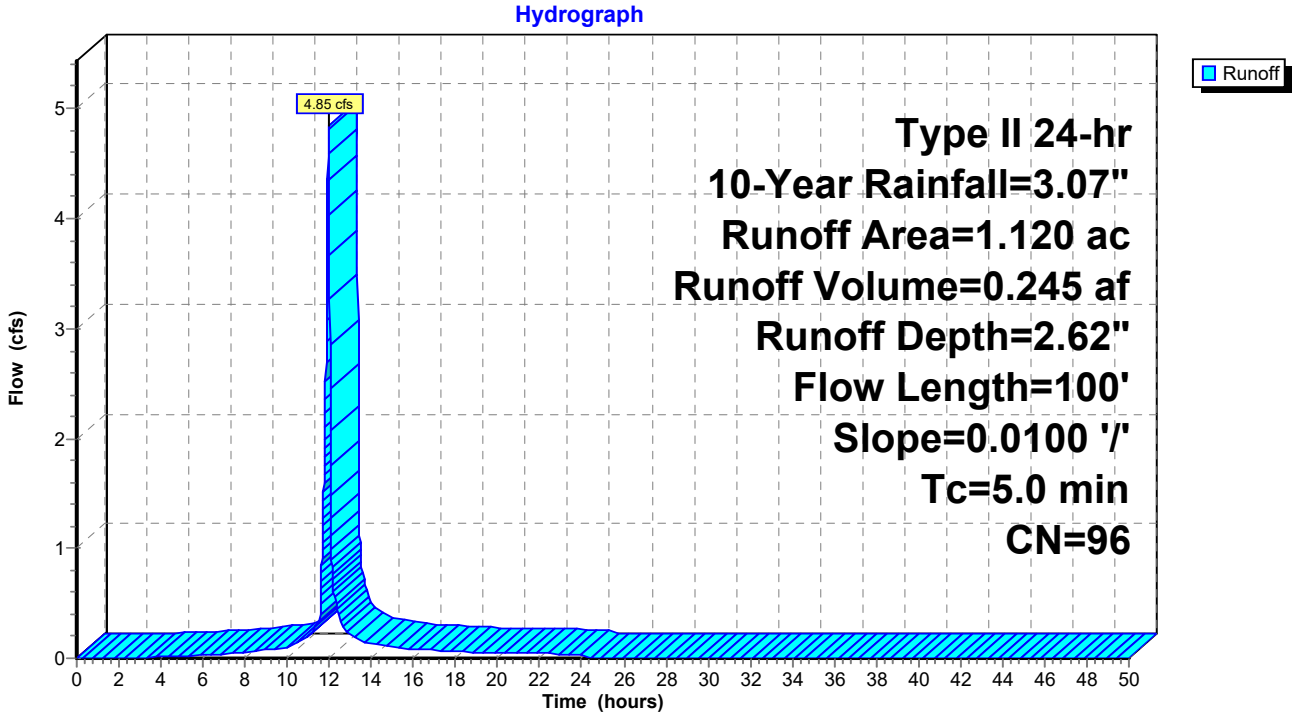
Runoff = 4.85 cfs @ 11.96 hrs, Volume= 0.245 af, Depth= 2.62"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.120	80	>75% Grass cover, Good, HSG D
*	1.000	98	Impervious, HSG D
	1.120	96	Weighted Average
	0.120		10.71% Pervious Area
	1.000		89.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 2S: Proposed Site

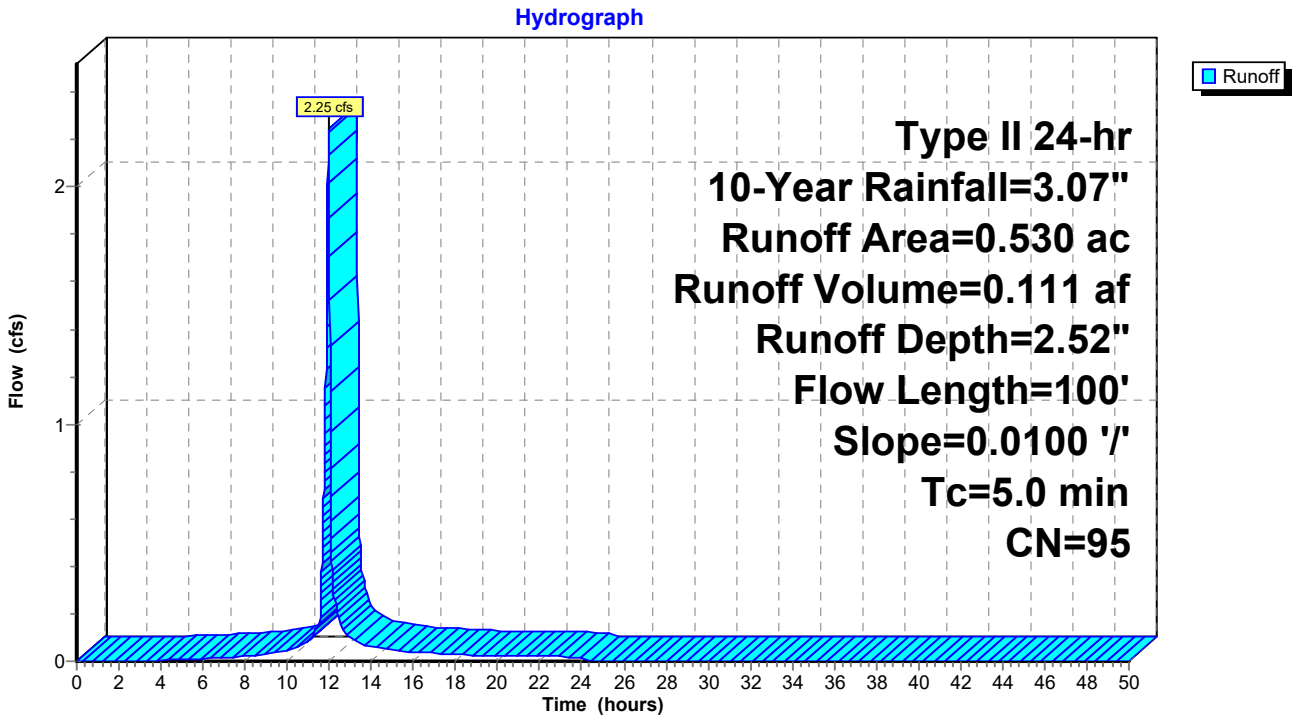
Runoff = 2.25 cfs @ 11.96 hrs, Volume= 0.111 af, Depth= 2.52"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.080	80	>75% Grass cover, Good, HSG D
*	0.450	98	Impervious, HSG D
	0.530	95	Weighted Average
	0.080		15.09% Pervious Area
	0.450		84.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 3S: Proposed Site

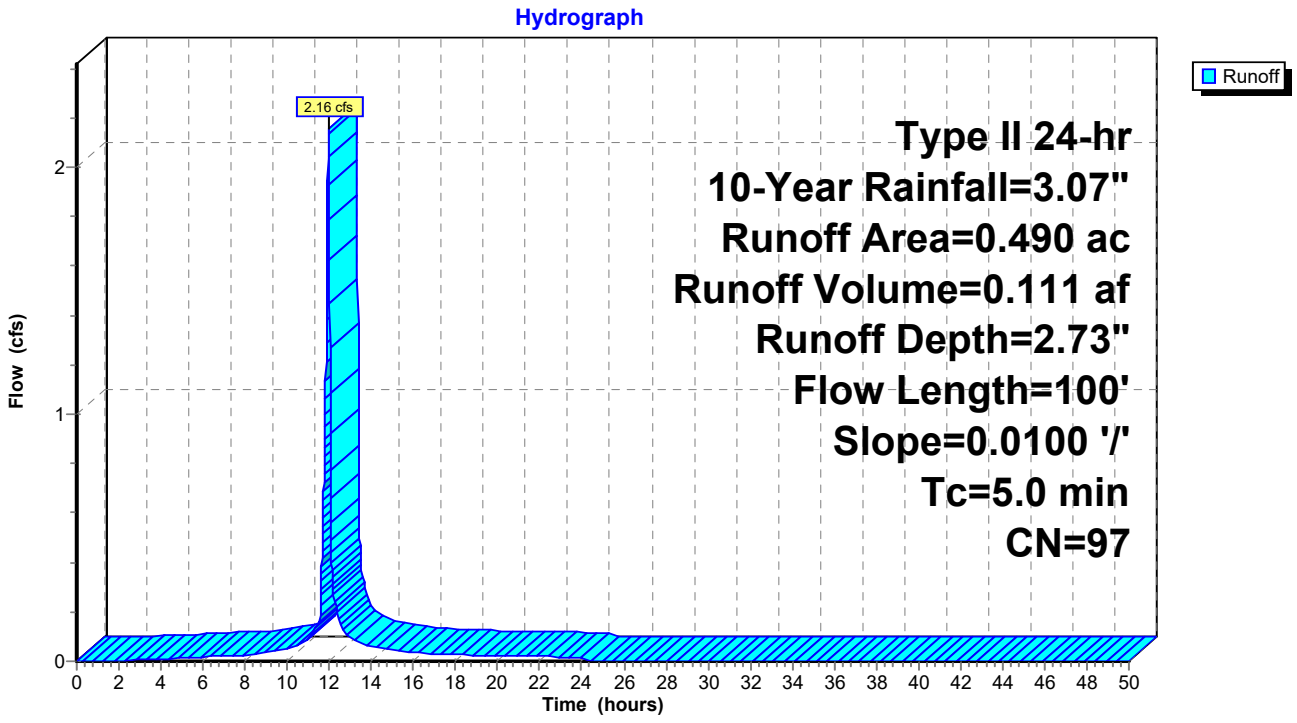
Runoff = 2.16 cfs @ 11.96 hrs, Volume= 0.111 af, Depth= 2.73"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.030	80	>75% Grass cover, Good, HSG D
*	0.460	98	Impervious, HSG D
	0.490	97	Weighted Average
	0.030		6.12% Pervious Area
	0.460		93.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 3S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 4S: Proposed Site

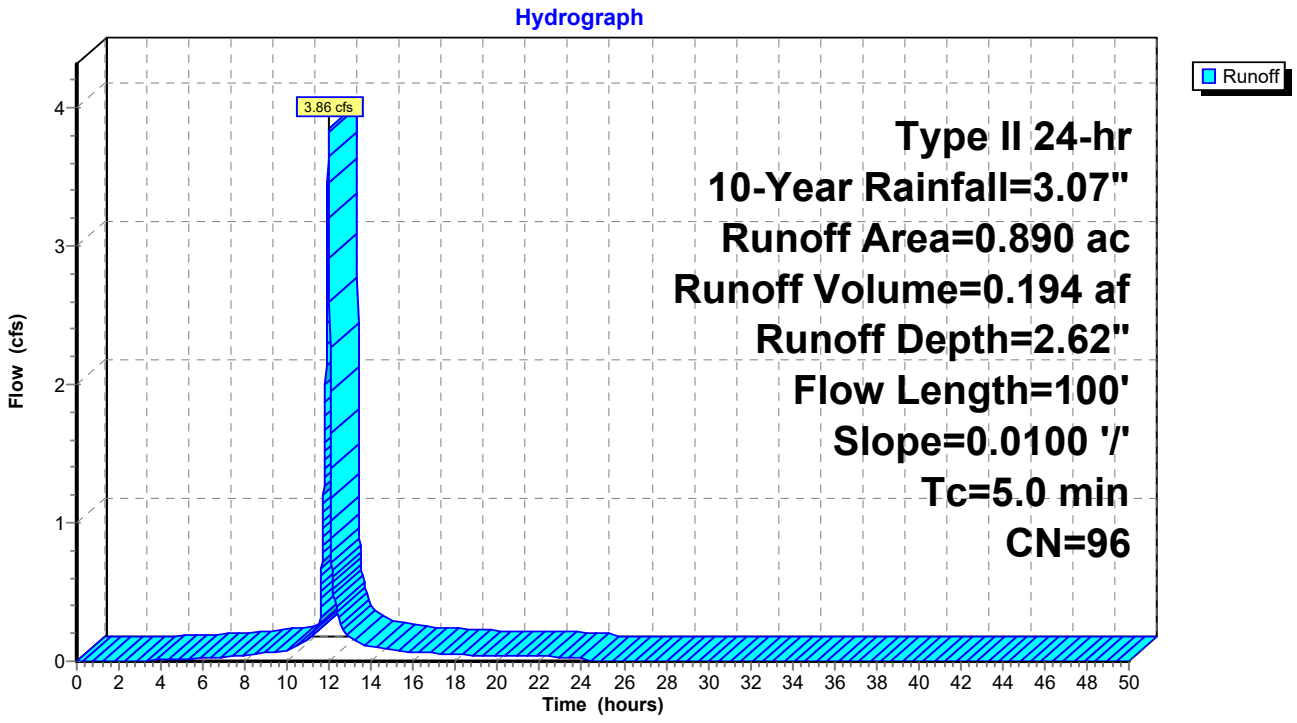
Runoff = 3.86 cfs @ 11.96 hrs, Volume= 0.194 af, Depth= 2.62"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.110	80	>75% Grass cover, Good, HSG D
*	0.780	98	Impervious, HSG D
	0.890	96	Weighted Average
	0.110		12.36% Pervious Area
	0.780		87.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 4S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 5S: Proposed Site

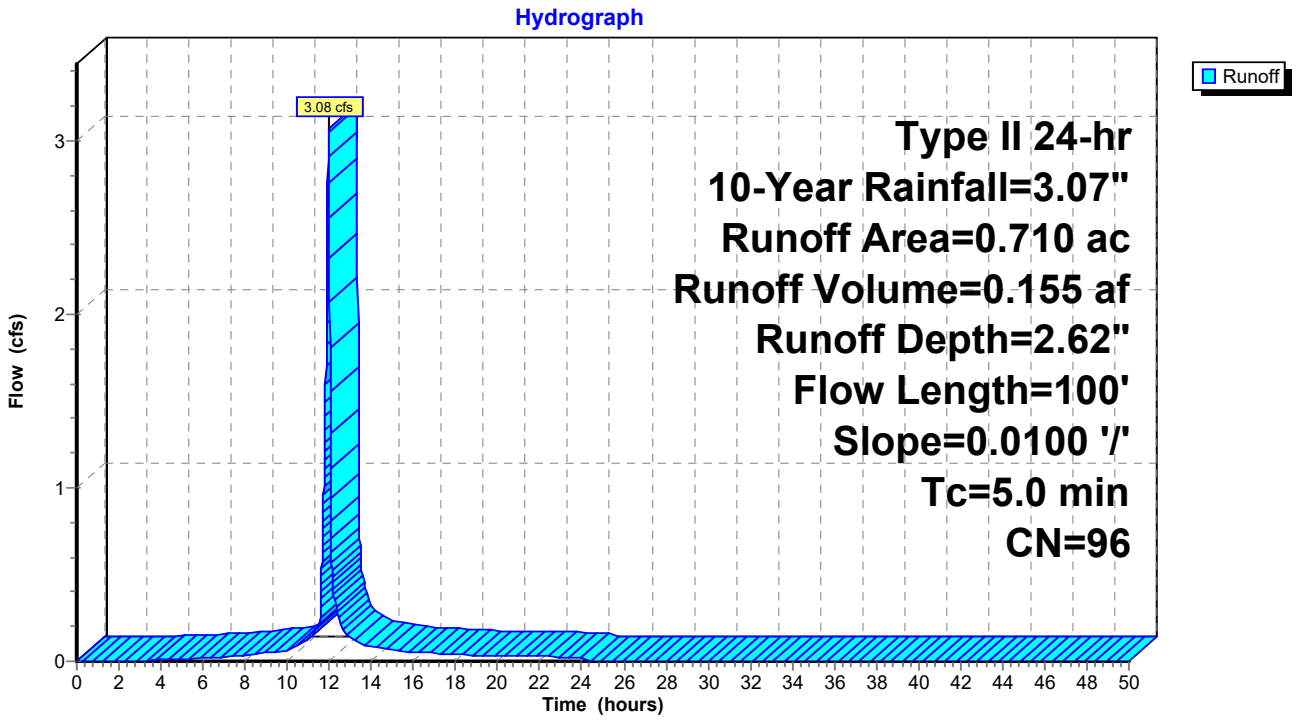
Runoff = 3.08 cfs @ 11.96 hrs, Volume= 0.155 af, Depth= 2.62"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.090	80	>75% Grass cover, Good, HSG D
*	0.620	98	Impervious, HSG D
	0.710	96	Weighted Average
	0.090		12.68% Pervious Area
	0.620		87.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 5S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 6S: Proposed Site

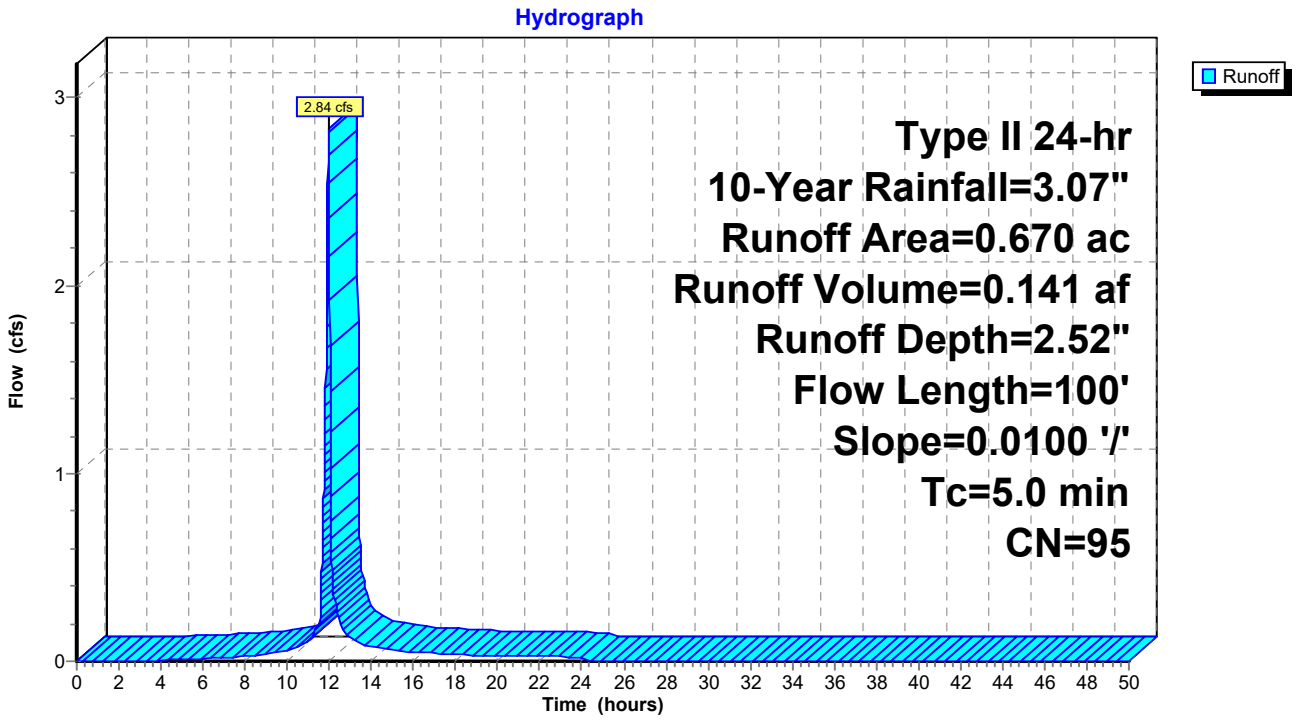
Runoff = 2.84 cfs @ 11.96 hrs, Volume= 0.141 af, Depth= 2.52"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.100	80	>75% Grass cover, Good, HSG D
*	0.570	98	Impervious, HSG D
	0.670	95	Weighted Average
	0.100		14.93% Pervious Area
	0.570		85.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 6S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 7S: Proposed Site

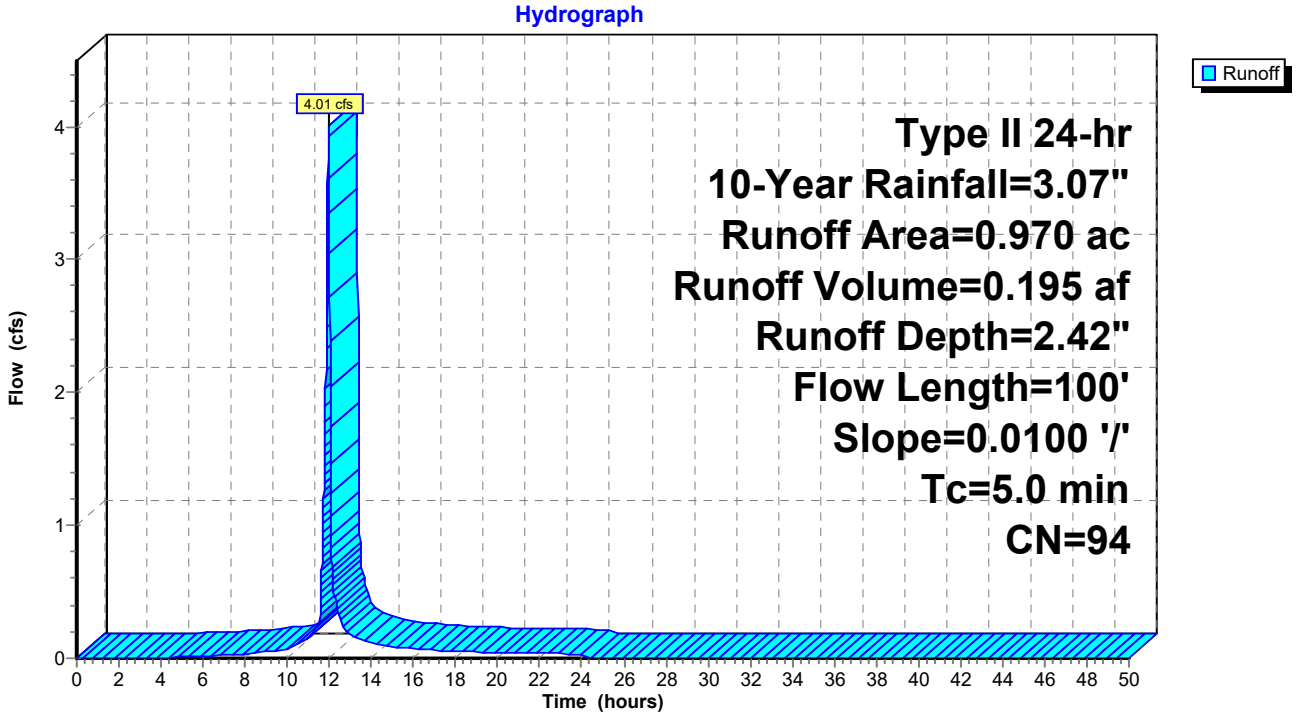
Runoff = 4.01 cfs @ 11.96 hrs, Volume= 0.195 af, Depth= 2.42"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.220	80	>75% Grass cover, Good, HSG D
*	0.750	98	Impervious, HSG D
	0.970	94	Weighted Average
	0.220		22.68% Pervious Area
	0.750		77.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 7S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 8S: Proposed Site

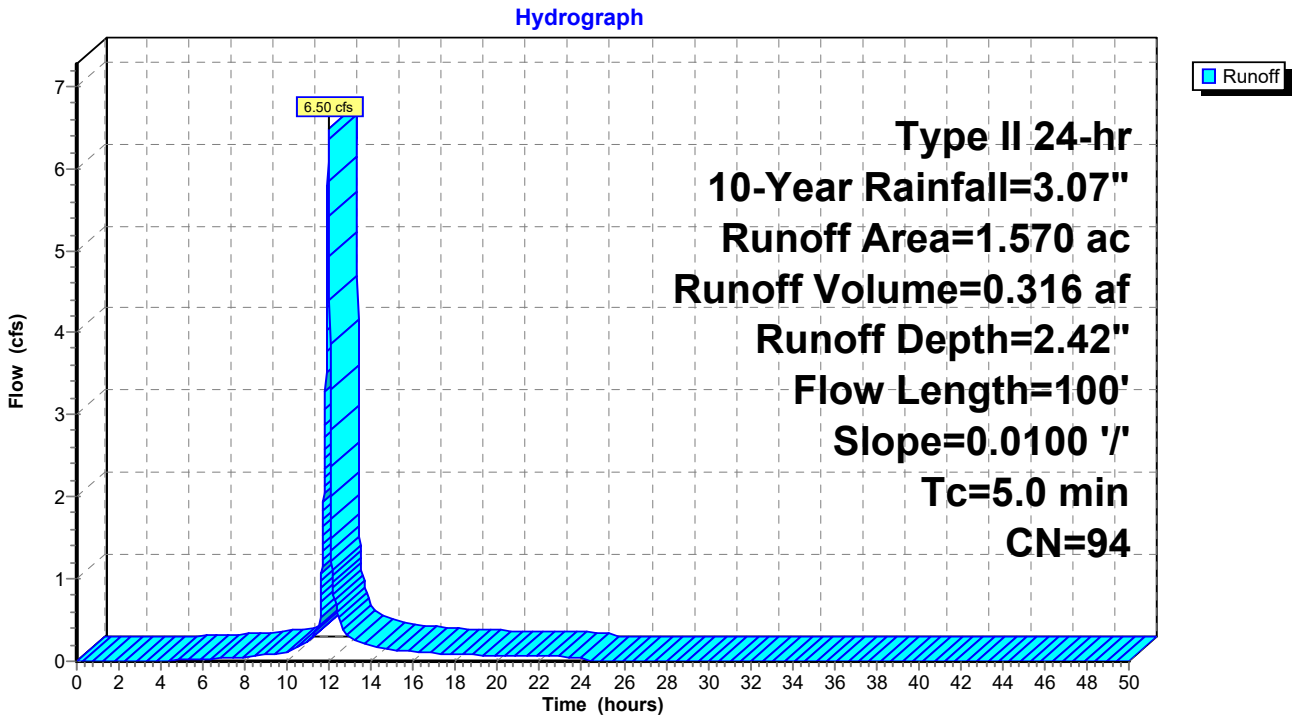
Runoff = 6.50 cfs @ 11.96 hrs, Volume= 0.316 af, Depth= 2.42"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.07"

	Area (ac)	CN	Description
	0.310	80	>75% Grass cover, Good, HSG D
*	1.260	98	Impervious, HSG D
	1.570	94	Weighted Average
	0.310		19.75% Pervious Area
	1.260		80.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 8S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Pond 1P: Detention Storage & Outlet

Inflow Area = 6.950 ac, 84.75% Impervious, Inflow Depth = 2.54" for 10-Year event
Inflow = 29.54 cfs @ 11.96 hrs, Volume= 1.469 af
Outflow = 13.54 cfs @ 12.04 hrs, Volume= 1.466 af, Atten= 54%, Lag= 5.3 min
Primary = 13.54 cfs @ 12.04 hrs, Volume= 1.466 af
Routed to nonexistent node 1L

Routing by Dyn-Stor-Ind method, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Peak Elev= 572.83' @ 12.05 hrs Surf.Area= 20,584 sf Storage= 17,843 cf

Plug-Flow detention time= 42.6 min calculated for 1.466 af (100% of inflow)
Center-of-Mass det. time= 41.5 min (817.6 - 776.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	571.50'	14,391 cf	**82.75'W x 248.75'L x 2.54'H Field A** 52,318 cf Overall - 16,341 cf Embedded = 35,977 cf x 40.0% Voids
#2A	572.00'	16,341 cf	**Cultec R-150XLHD** x 600 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap Row Length Adjustment= +0.75' x 2.65 sf x 25 rows
		30,732 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	571.50'	**12.0" Round Outlet Pipe X 5.00** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 571.50' / 571.50' S= 0.0000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=13.54 cfs @ 12.04 hrs HW=572.83' (Free Discharge)
↑**1=Outlet Pipe** (Barrel Controls 13.54 cfs @ 3.45 fps)

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet - Chamber Wizard Field A

Chamber Model = Cultec R-150XLHD (Cultec Recharger®150XLHD)
Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
Row Length Adjustment= +0.75' x 2.65 sf x 25 rows

33.0" Wide + 6.0" Spacing = 39.0" C-C Row Spacing

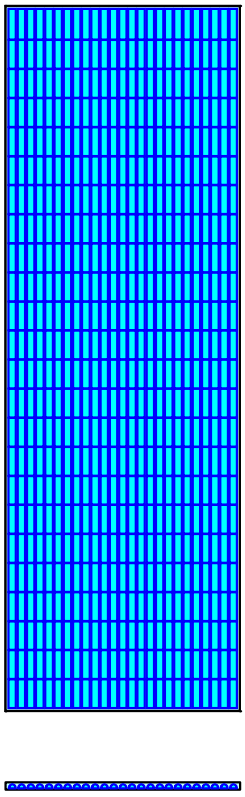
24 Chambers/Row x 10.25' Long +0.75' Row Adjustment = 246.75' Row Length +12.0" End Stone x 2 = 248.75' Base Length
25 Rows x 33.0" Wide + 6.0" Spacing x 24 + 12.0" Side Stone x 2 = 82.75' Base Width
6.0" Stone Base + 18.5" Chamber Height + 6.0" Stone Cover = 2.54' Field Height

600 Chambers x 27.2 cf +0.75' Row Adjustment x 2.65 sf x 25 Rows = 16,341.0 cf Chamber Storage

52,317.8 cf Field - 16,341.0 cf Chambers = 35,976.8 cf Stone x 40.0% Voids = 14,390.7 cf Stone Storage

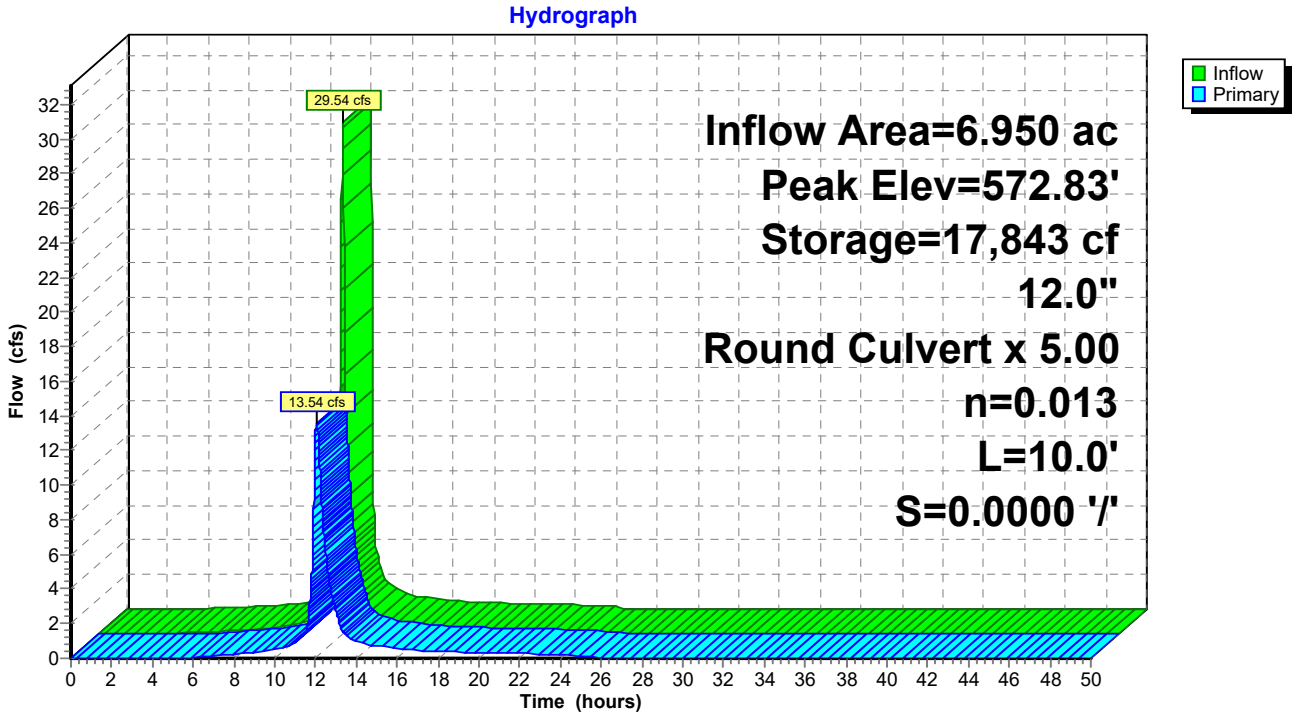
Chamber Storage + Stone Storage = 30,731.7 cf = 0.706 af
Overall Storage Efficiency = 58.7%
Overall System Size = 248.75' x 82.75' x 2.54'

600 Chambers
1,937.7 cy Field
1,332.5 cy Stone



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.01 hrs, 5001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Proposed Site Runoff Area=1.120 ac 89.29% Impervious Runoff Depth=3.27"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=5.97 cfs 0.305 af

Subcatchment2S: Proposed Site Runoff Area=0.530 ac 84.91% Impervious Runoff Depth=3.17"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=2.78 cfs 0.140 af

Subcatchment3S: Proposed Site Runoff Area=0.490 ac 93.88% Impervious Runoff Depth=3.38"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=97 Runoff=2.65 cfs 0.138 af

Subcatchment4S: Proposed Site Runoff Area=0.890 ac 87.64% Impervious Runoff Depth=3.27"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=4.75 cfs 0.243 af

Subcatchment5S: Proposed Site Runoff Area=0.710 ac 87.32% Impervious Runoff Depth=3.27"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=3.79 cfs 0.194 af

Subcatchment6S: Proposed Site Runoff Area=0.670 ac 85.07% Impervious Runoff Depth=3.17"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=3.52 cfs 0.177 af

Subcatchment7S: Proposed Site Runoff Area=0.970 ac 77.32% Impervious Runoff Depth=3.06"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=5.00 cfs 0.247 af

Subcatchment8S: Proposed Site Runoff Area=1.570 ac 80.25% Impervious Runoff Depth=3.06"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=8.09 cfs 0.400 af

Pond 1P: Detention Storage & Outlet Peak Elev=573.09' Storage=21,706 cf Inflow=36.53 cfs 1.844 af
12.0" Round Culvert x 5.00 n=0.013 L=10.0' S=0.0000 '/' Outflow=18.03 cfs 1.841 af

Total Runoff Area = 6.950 ac Runoff Volume = 1.844 af Average Runoff Depth = 3.18"
15.25% Pervious = 1.060 ac 84.75% Impervious = 5.890 ac

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Proposed Site

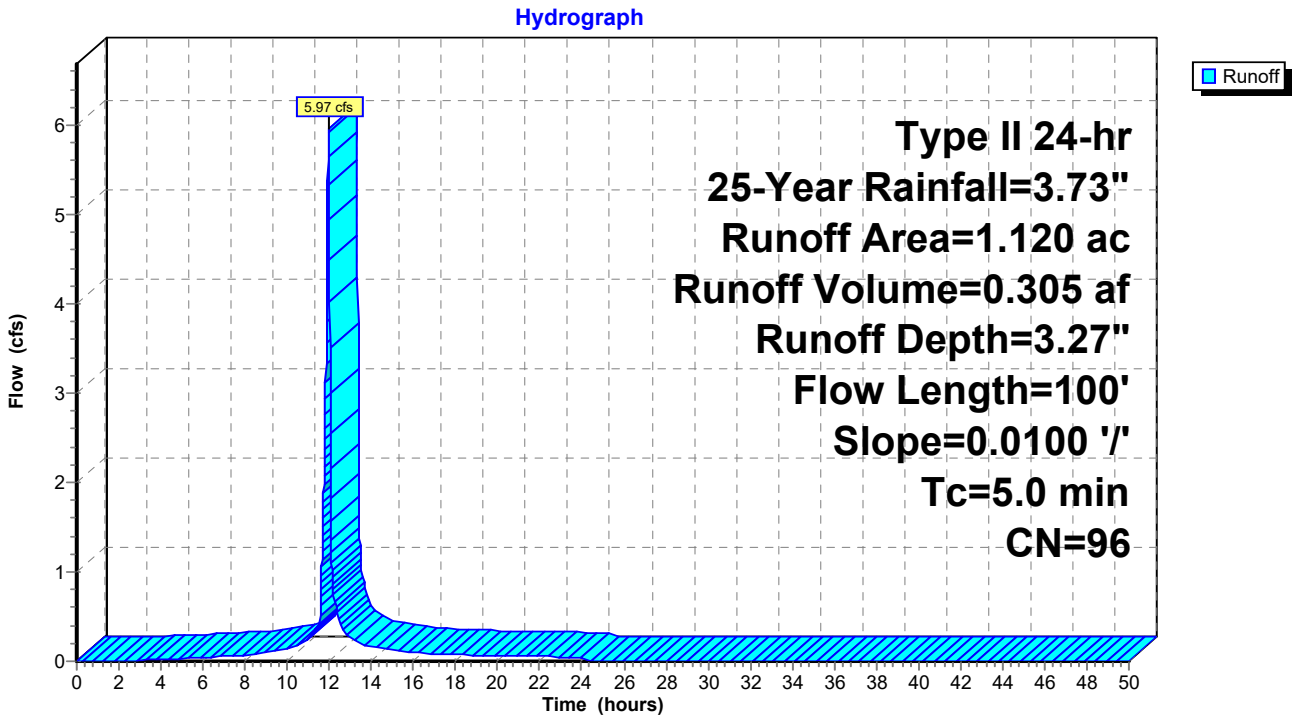
Runoff = 5.97 cfs @ 11.96 hrs, Volume= 0.305 af, Depth= 3.27"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.120	80	>75% Grass cover, Good, HSG D
*	1.000	98	Impervious, HSG D
	1.120	96	Weighted Average
	0.120		10.71% Pervious Area
	1.000		89.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 2S: Proposed Site

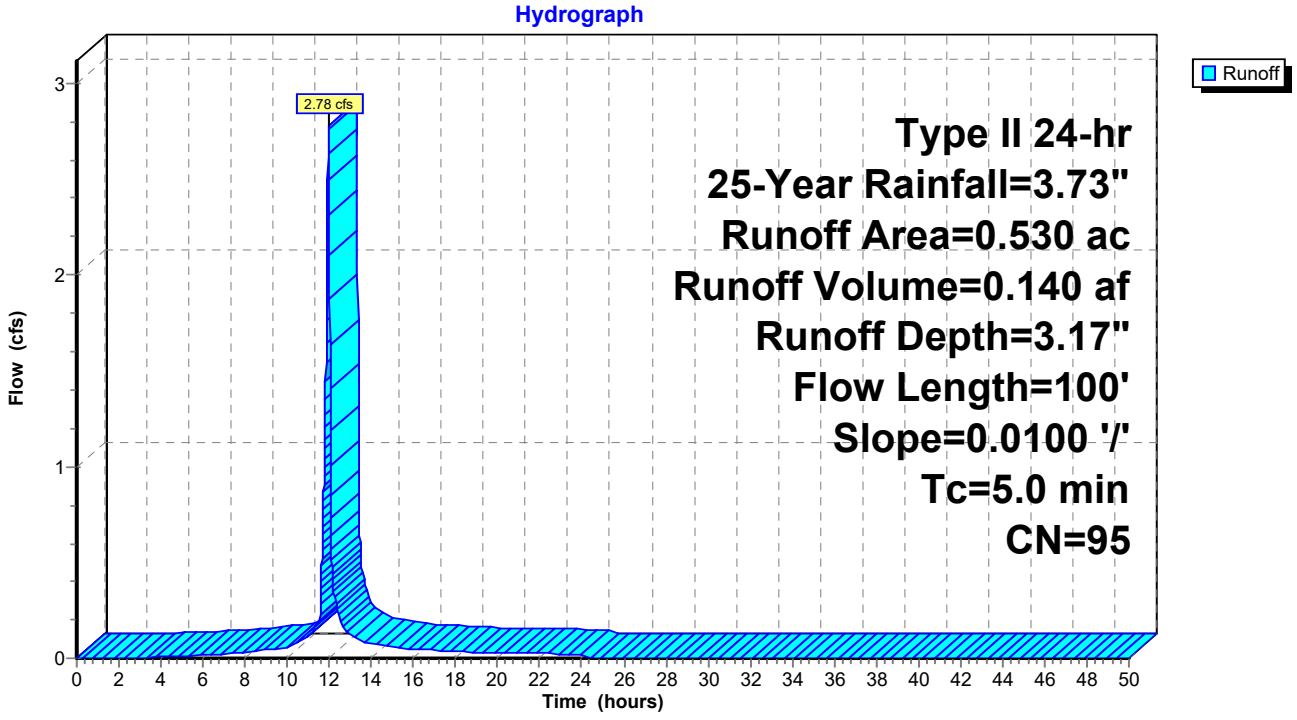
Runoff = 2.78 cfs @ 11.96 hrs, Volume= 0.140 af, Depth= 3.17"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.080	80	>75% Grass cover, Good, HSG D
*	0.450	98	Impervious, HSG D
	0.530	95	Weighted Average
	0.080		15.09% Pervious Area
	0.450		84.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 3S: Proposed Site

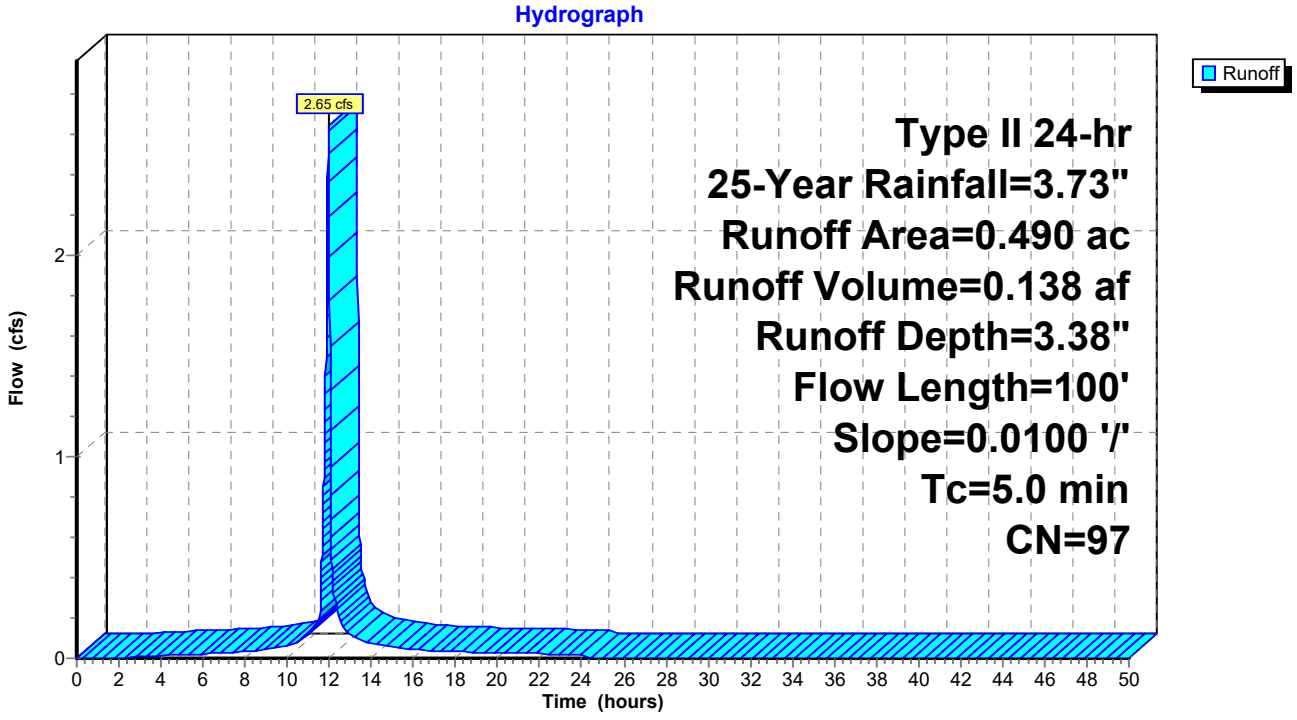
Runoff = 2.65 cfs @ 11.96 hrs, Volume= 0.138 af, Depth= 3.38"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.030	80	>75% Grass cover, Good, HSG D
*	0.460	98	Impervious, HSG D
	0.490	97	Weighted Average
	0.030		6.12% Pervious Area
	0.460		93.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 3S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 4S: Proposed Site

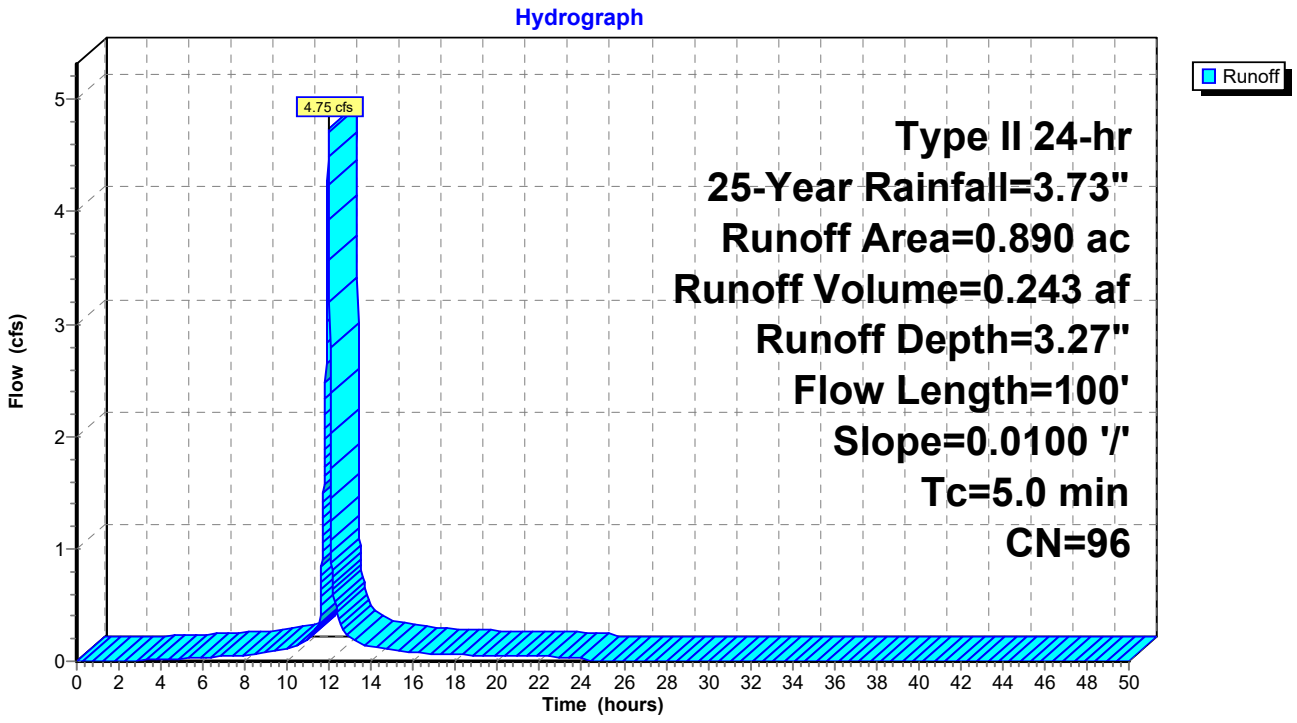
Runoff = 4.75 cfs @ 11.96 hrs, Volume= 0.243 af, Depth= 3.27"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.110	80	>75% Grass cover, Good, HSG D
*	0.780	98	Impervious, HSG D
	0.890	96	Weighted Average
	0.110		12.36% Pervious Area
	0.780		87.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 4S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 5S: Proposed Site

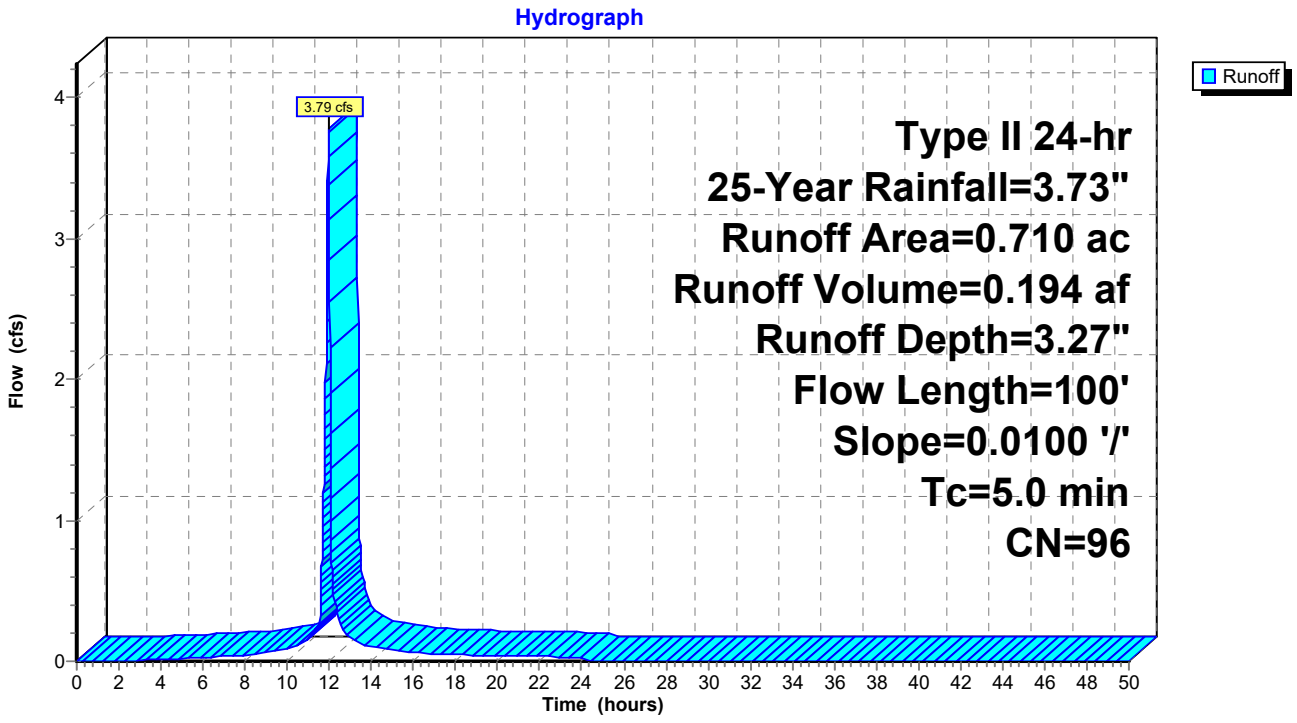
Runoff = 3.79 cfs @ 11.96 hrs, Volume= 0.194 af, Depth= 3.27"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.090	80	>75% Grass cover, Good, HSG D
*	0.620	98	Impervious, HSG D
	0.710	96	Weighted Average
	0.090		12.68% Pervious Area
	0.620		87.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 5S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 6S: Proposed Site

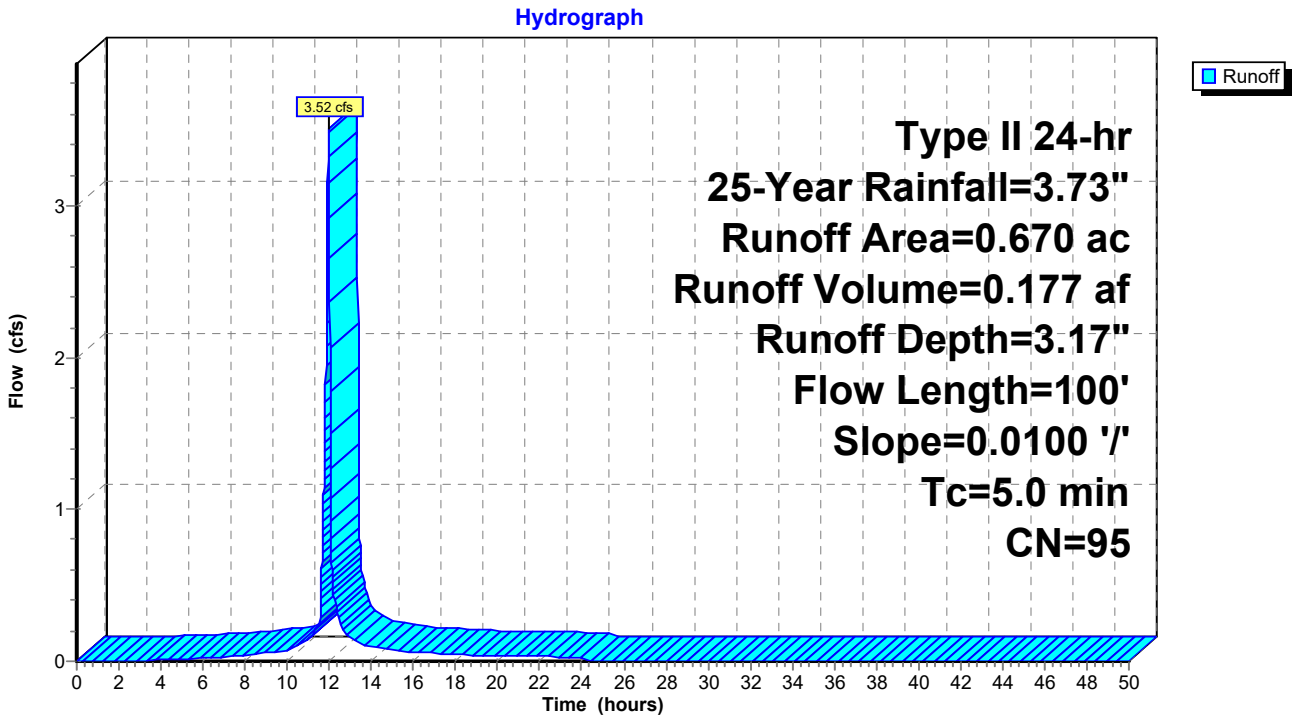
Runoff = 3.52 cfs @ 11.96 hrs, Volume= 0.177 af, Depth= 3.17"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.100	80	>75% Grass cover, Good, HSG D
*	0.570	98	Impervious, HSG D
	0.670	95	Weighted Average
	0.100		14.93% Pervious Area
	0.570		85.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 6S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 7S: Proposed Site

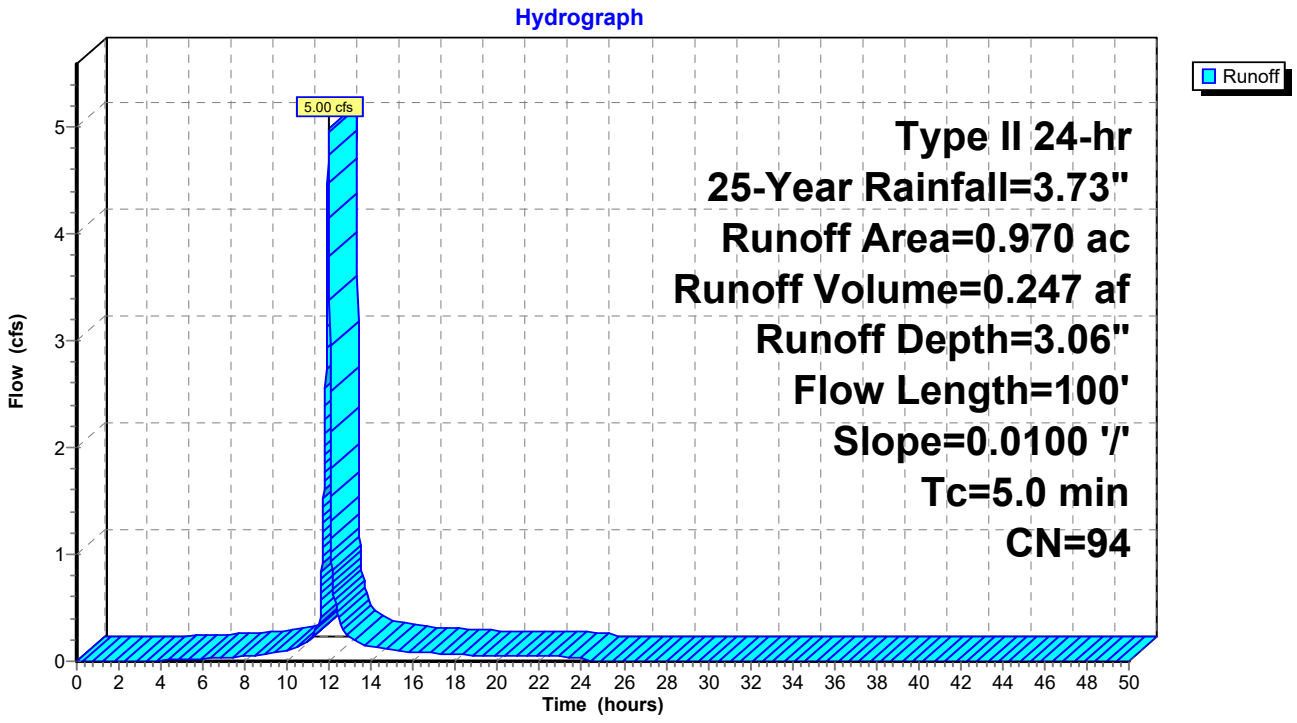
Runoff = 5.00 cfs @ 11.96 hrs, Volume= 0.247 af, Depth= 3.06"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.220	80	>75% Grass cover, Good, HSG D
*	0.750	98	Impervious, HSG D
	0.970	94	Weighted Average
	0.220		22.68% Pervious Area
	0.750		77.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 7S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 8S: Proposed Site

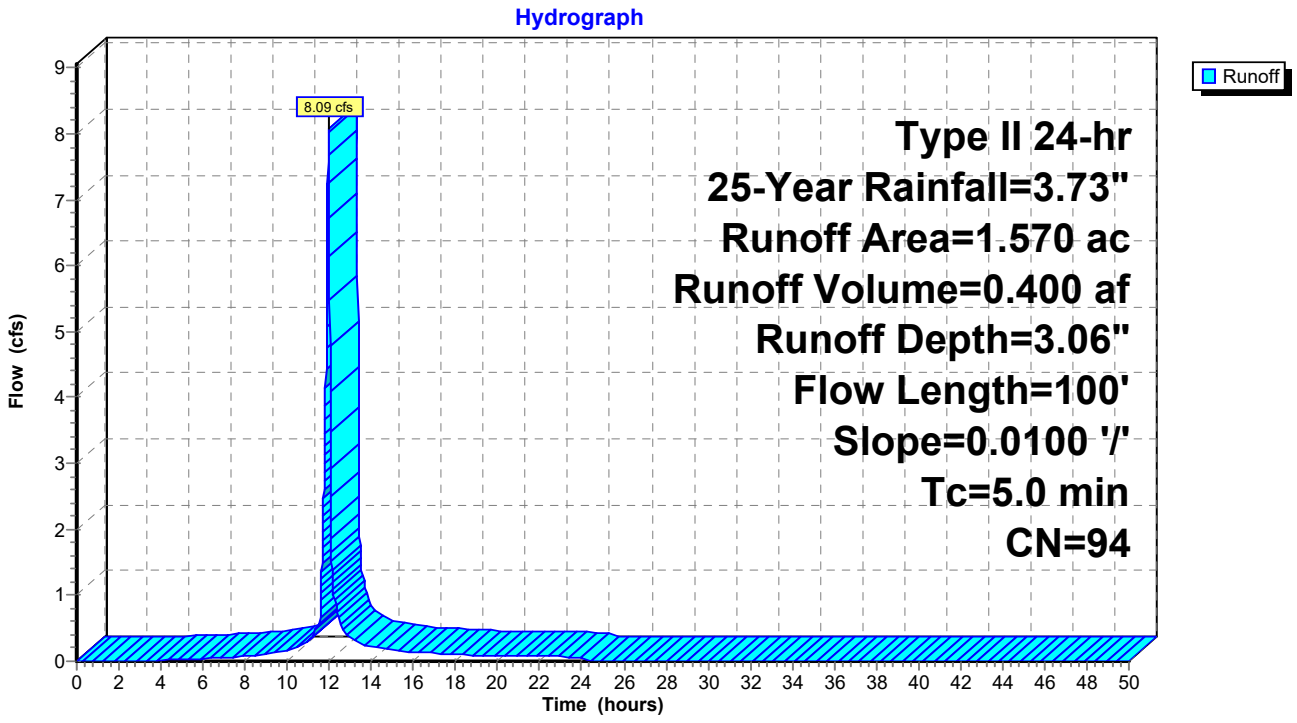
Runoff = 8.09 cfs @ 11.96 hrs, Volume= 0.400 af, Depth= 3.06"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.73"

	Area (ac)	CN	Description
	0.310	80	>75% Grass cover, Good, HSG D
*	1.260	98	Impervious, HSG D
	1.570	94	Weighted Average
	0.310		19.75% Pervious Area
	1.260		80.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 8S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Pond 1P: Detention Storage & Outlet

Inflow Area = 6.950 ac, 84.75% Impervious, Inflow Depth = 3.18" for 25-Year event
Inflow = 36.53 cfs @ 11.96 hrs, Volume= 1.844 af
Outflow = 18.03 cfs @ 12.04 hrs, Volume= 1.841 af, Atten= 51%, Lag= 5.1 min
Primary = 18.03 cfs @ 12.04 hrs, Volume= 1.841 af
Routed to nonexistent node 1L

Routing by Dyn-Stor-Ind method, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Peak Elev= 573.09' @ 12.04 hrs Surf.Area= 20,584 sf Storage= 21,706 cf

Plug-Flow detention time= 39.0 min calculated for 1.841 af (100% of inflow)
Center-of-Mass det. time= 38.1 min (808.4 - 770.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	571.50'	14,391 cf	**82.75'W x 248.75'L x 2.54'H Field A** 52,318 cf Overall - 16,341 cf Embedded = 35,977 cf x 40.0% Voids
#2A	572.00'	16,341 cf	**Cultec R-150XLHD** x 600 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap Row Length Adjustment= +0.75' x 2.65 sf x 25 rows
		30,732 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	571.50'	**12.0" Round Outlet Pipe X 5.00** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 571.50' / 571.50' S= 0.0000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=18.02 cfs @ 12.04 hrs HW=573.09' (Free Discharge)
↑**1=Outlet Pipe** (Barrel Controls 18.02 cfs @ 4.59 fps)

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet - Chamber Wizard Field A

Chamber Model = Cultec R-150XLHD (Cultec Recharger®150XLHD)
Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
Row Length Adjustment= +0.75' x 2.65 sf x 25 rows

33.0" Wide + 6.0" Spacing = 39.0" C-C Row Spacing

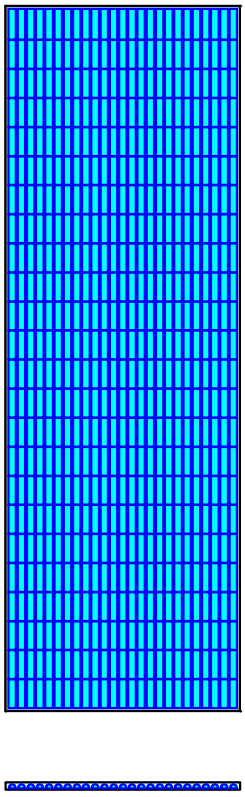
24 Chambers/Row x 10.25' Long +0.75' Row Adjustment = 246.75' Row Length +12.0" End Stone x 2 = 248.75' Base Length
25 Rows x 33.0" Wide + 6.0" Spacing x 24 + 12.0" Side Stone x 2 = 82.75' Base Width
6.0" Stone Base + 18.5" Chamber Height + 6.0" Stone Cover = 2.54' Field Height

600 Chambers x 27.2 cf +0.75' Row Adjustment x 2.65 sf x 25 Rows = 16,341.0 cf Chamber Storage

52,317.8 cf Field - 16,341.0 cf Chambers = 35,976.8 cf Stone x 40.0% Voids = 14,390.7 cf Stone Storage

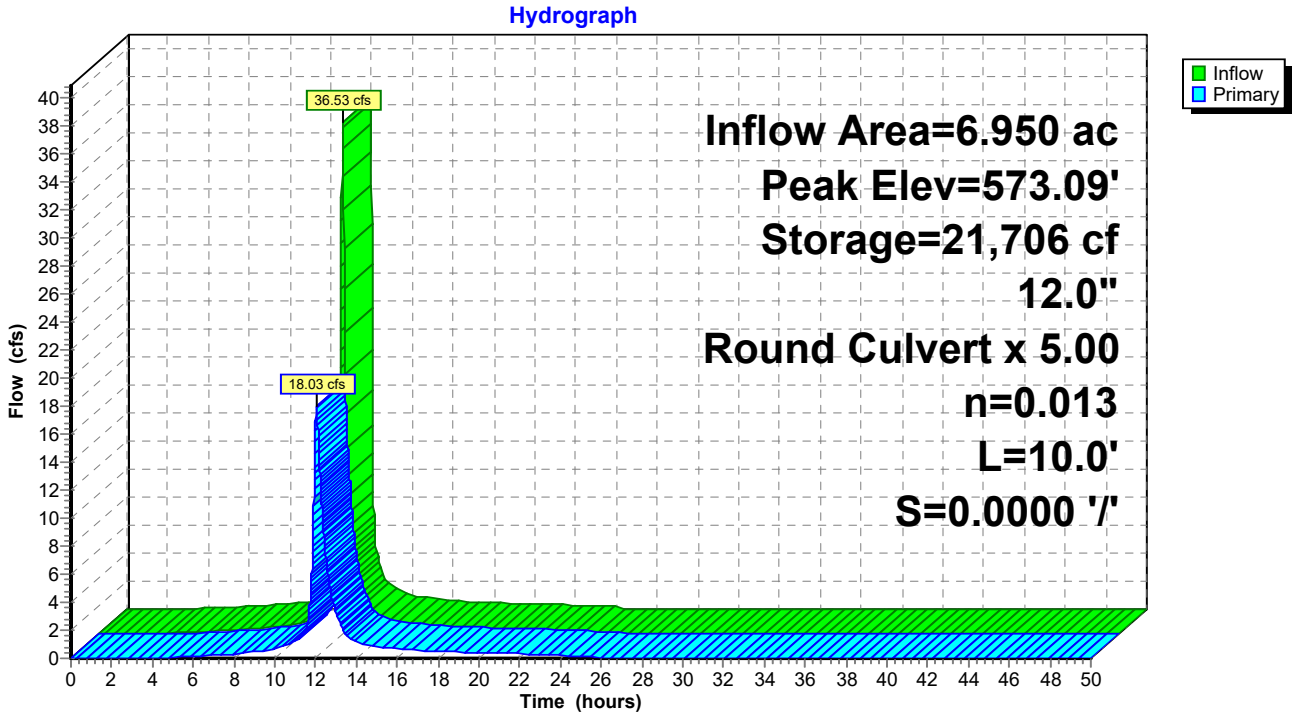
Chamber Storage + Stone Storage = 30,731.7 cf = 0.706 af
Overall Storage Efficiency = 58.7%
Overall System Size = 248.75' x 82.75' x 2.54'

600 Chambers
1,937.7 cy Field
1,332.5 cy Stone



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Time span=0.00-50.00 hrs, dt=0.01 hrs, 5001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Proposed Site Runoff Area=1.120 ac 89.29% Impervious Runoff Depth=4.56"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=8.16 cfs 0.426 af

Subcatchment2S: Proposed Site Runoff Area=0.530 ac 84.91% Impervious Runoff Depth=4.45"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=3.82 cfs 0.197 af

Subcatchment3S: Proposed Site Runoff Area=0.490 ac 93.88% Impervious Runoff Depth=4.68"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=97 Runoff=3.60 cfs 0.191 af

Subcatchment4S: Proposed Site Runoff Area=0.890 ac 87.64% Impervious Runoff Depth=4.56"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=6.49 cfs 0.338 af

Subcatchment5S: Proposed Site Runoff Area=0.710 ac 87.32% Impervious Runoff Depth=4.56"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=96 Runoff=5.17 cfs 0.270 af

Subcatchment6S: Proposed Site Runoff Area=0.670 ac 85.07% Impervious Runoff Depth=4.45"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=95 Runoff=4.83 cfs 0.248 af

Subcatchment7S: Proposed Site Runoff Area=0.970 ac 77.32% Impervious Runoff Depth=4.34"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=6.92 cfs 0.351 af

Subcatchment8S: Proposed Site Runoff Area=1.570 ac 80.25% Impervious Runoff Depth=4.34"
Flow Length=100' Slope=0.0100 '/' Tc=5.0 min CN=94 Runoff=11.20 cfs 0.567 af

Pond 1P: Detention Storage & Outlet Peak Elev=573.83' Storage=29,010 cf Inflow=50.20 cfs 2.588 af
12.0" Round Culvert x 5.00 n=0.013 L=10.0' S=0.0000 '/' Outflow=25.60 cfs 2.585 af

Total Runoff Area = 6.950 ac Runoff Volume = 2.588 af Average Runoff Depth = 4.47"
15.25% Pervious = 1.060 ac 84.75% Impervious = 5.890 ac

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 1S: Proposed Site

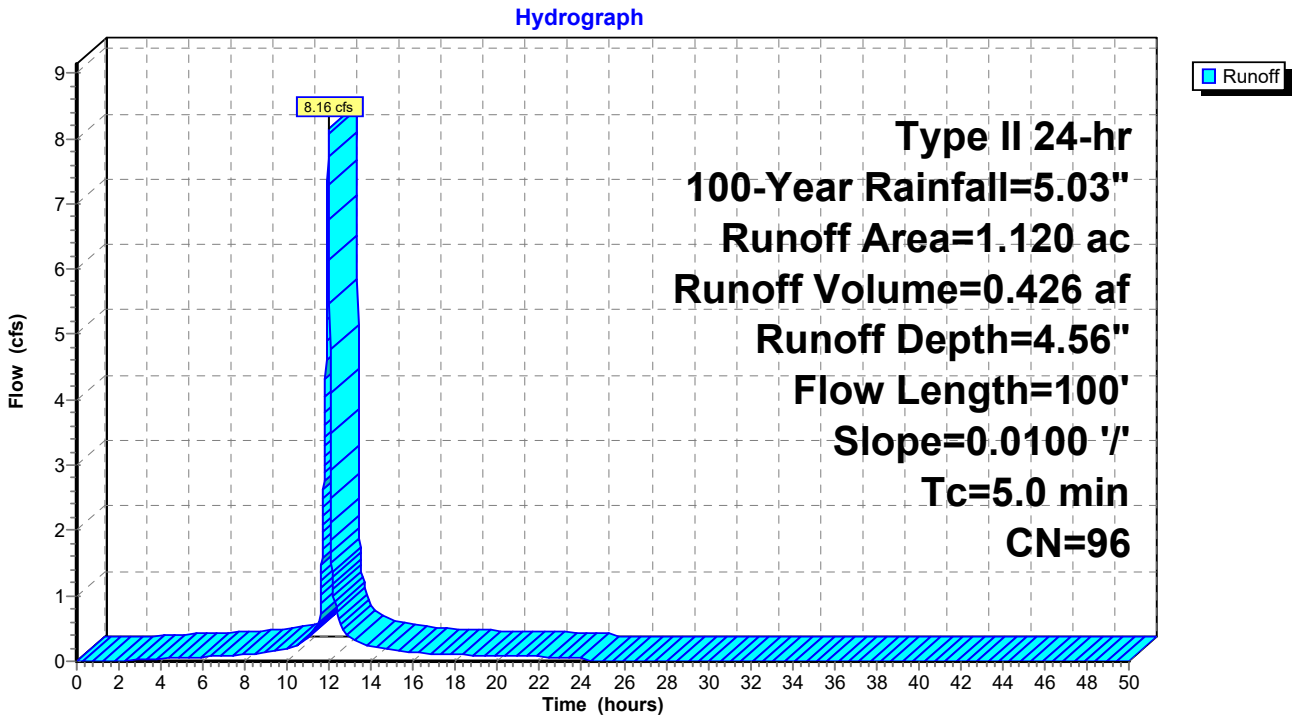
Runoff = 8.16 cfs @ 11.96 hrs, Volume= 0.426 af, Depth= 4.56"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.120	80	>75% Grass cover, Good, HSG D
*	1.000	98	Impervious, HSG D
	1.120	96	Weighted Average
	0.120		10.71% Pervious Area
	1.000		89.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 1S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 2S: Proposed Site

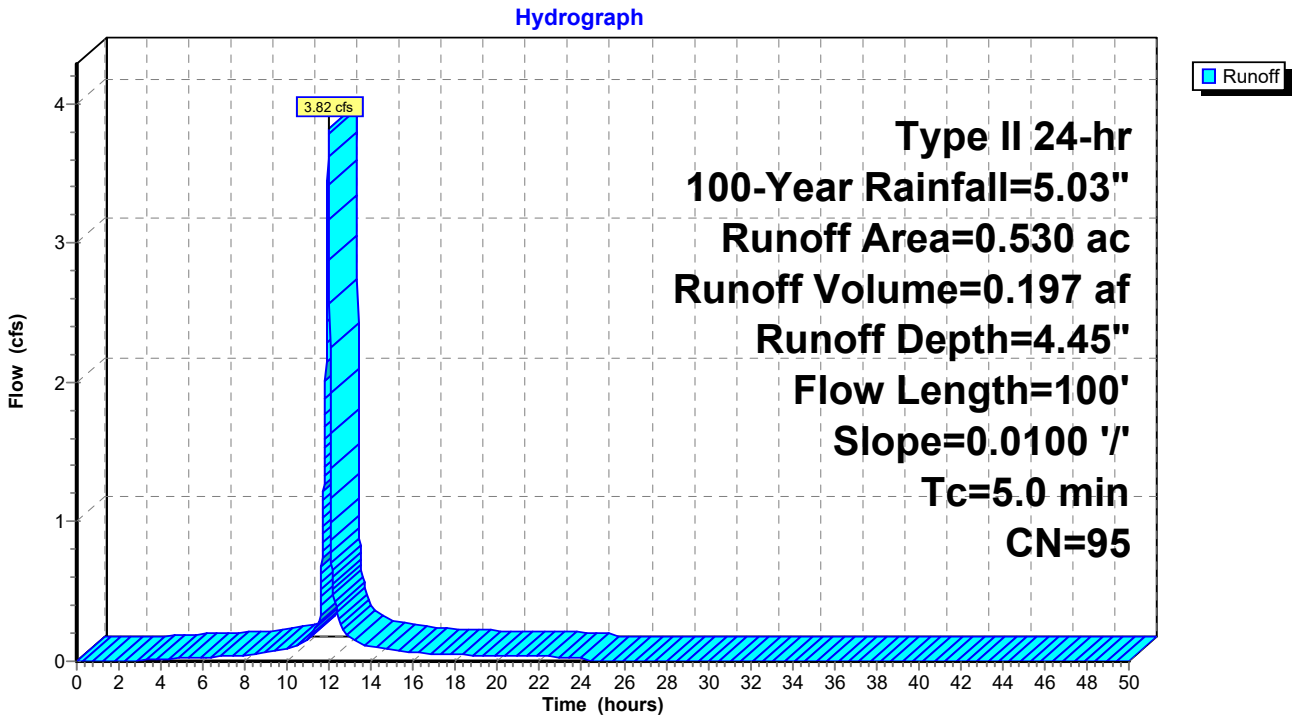
Runoff = 3.82 cfs @ 11.96 hrs, Volume= 0.197 af, Depth= 4.45"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.080	80	>75% Grass cover, Good, HSG D
*	0.450	98	Impervious, HSG D
	0.530	95	Weighted Average
	0.080		15.09% Pervious Area
	0.450		84.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 2S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 3S: Proposed Site

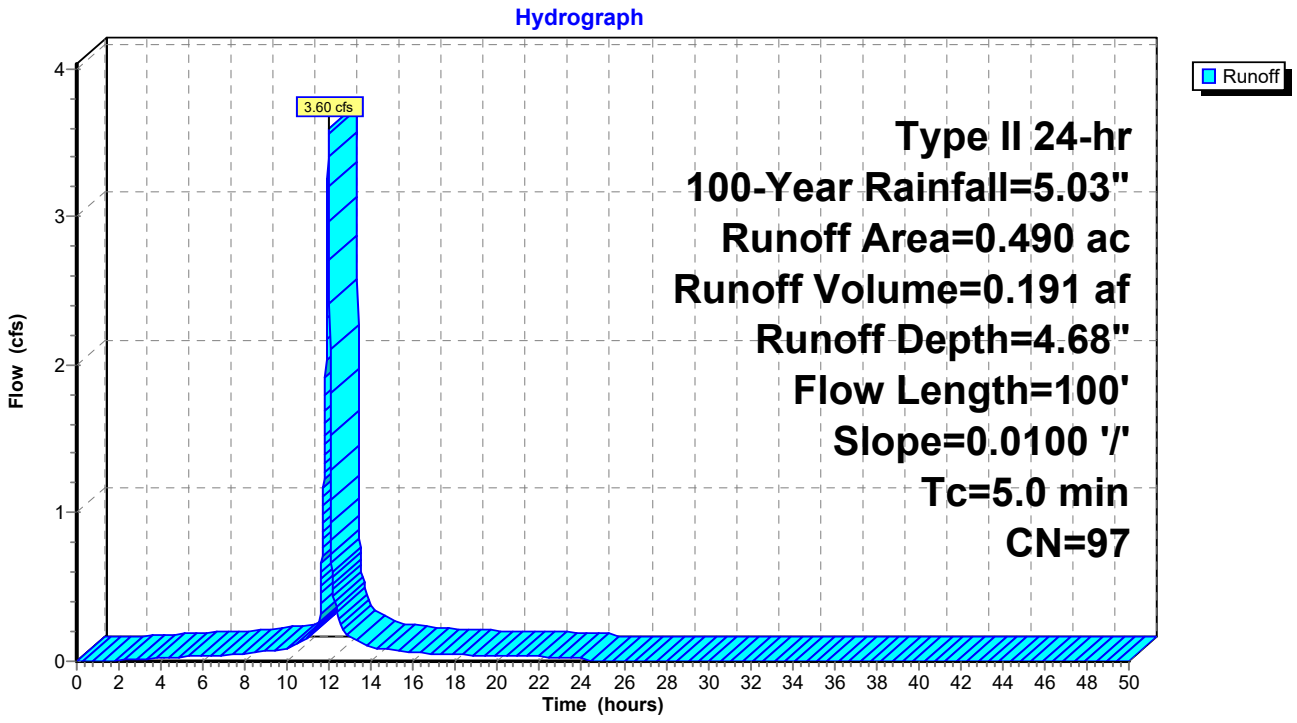
Runoff = 3.60 cfs @ 11.96 hrs, Volume= 0.191 af, Depth= 4.68"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.030	80	>75% Grass cover, Good, HSG D
*	0.460	98	Impervious, HSG D
	0.490	97	Weighted Average
	0.030		6.12% Pervious Area
	0.460		93.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 3S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 4S: Proposed Site

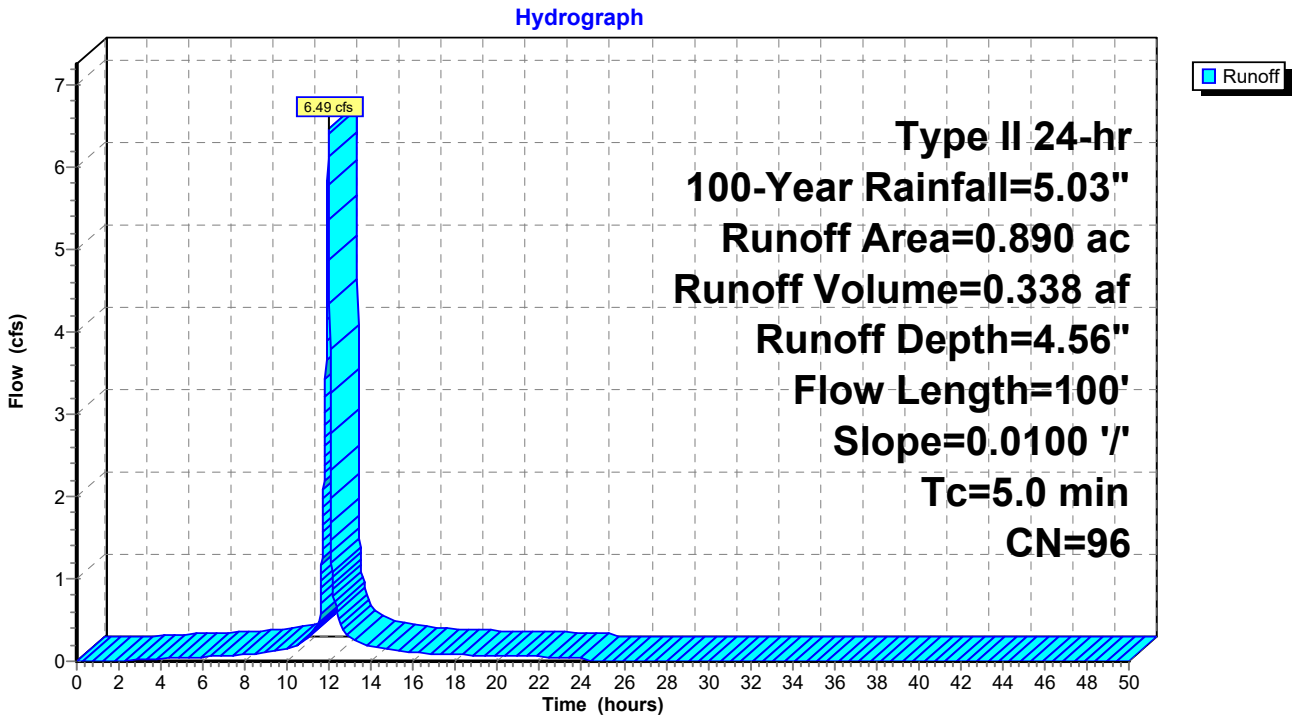
Runoff = 6.49 cfs @ 11.96 hrs, Volume= 0.338 af, Depth= 4.56"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.110	80	>75% Grass cover, Good, HSG D
*	0.780	98	Impervious, HSG D
	0.890	96	Weighted Average
	0.110		12.36% Pervious Area
	0.780		87.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 4S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 5S: Proposed Site

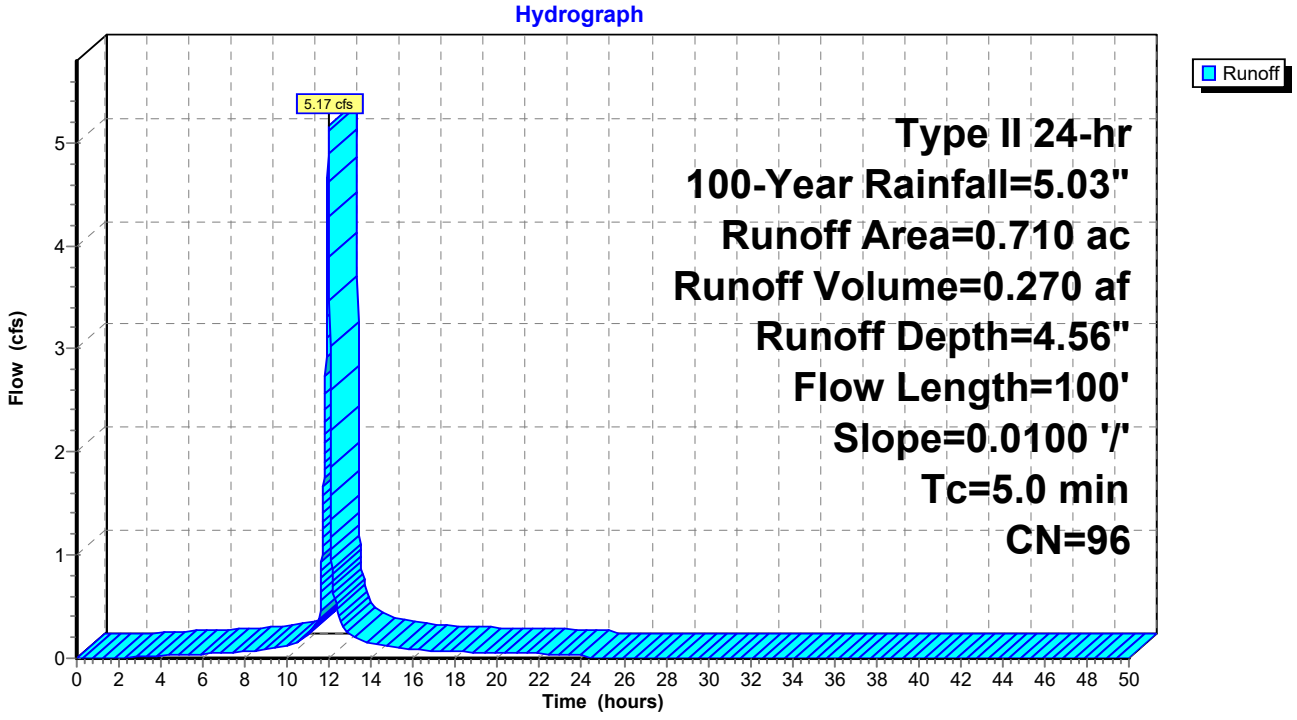
Runoff = 5.17 cfs @ 11.96 hrs, Volume= 0.270 af, Depth= 4.56"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.090	80	>75% Grass cover, Good, HSG D
*	0.620	98	Impervious, HSG D
	0.710	96	Weighted Average
	0.090		12.68% Pervious Area
	0.620		87.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 5S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 6S: Proposed Site

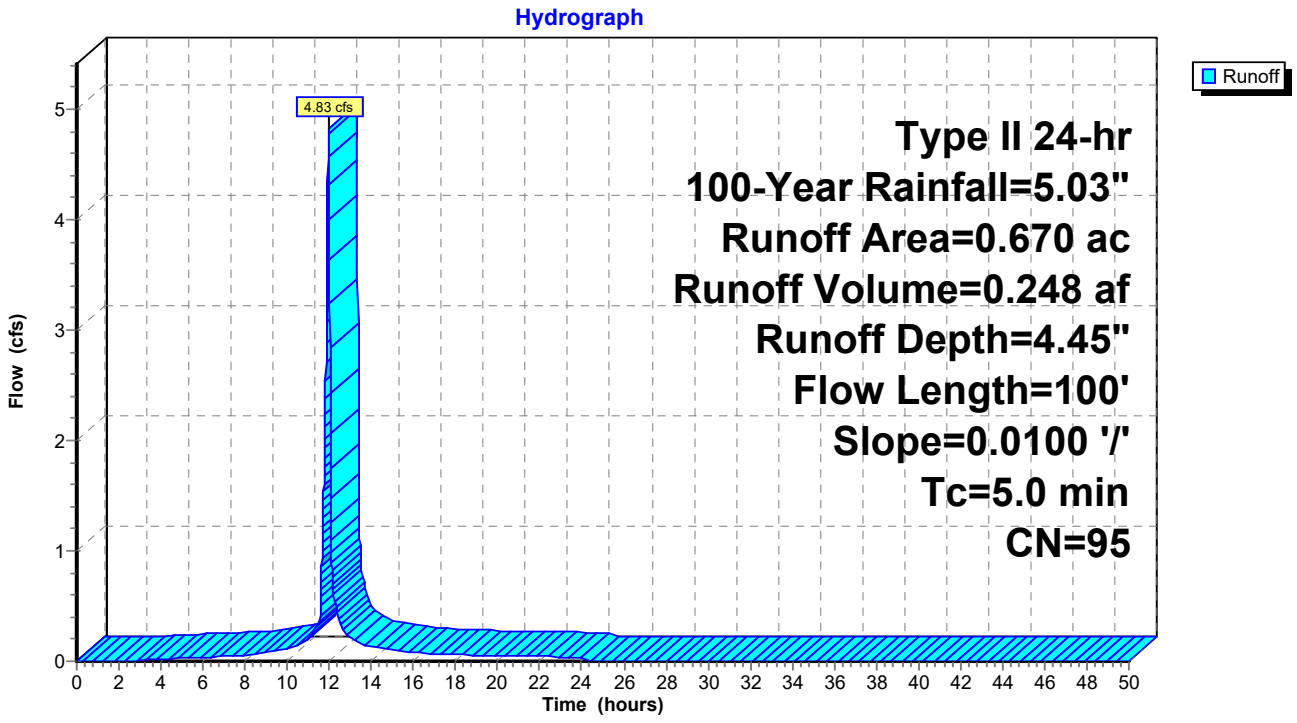
Runoff = 4.83 cfs @ 11.96 hrs, Volume= 0.248 af, Depth= 4.45"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.100	80	>75% Grass cover, Good, HSG D
*	0.570	98	Impervious, HSG D
	0.670	95	Weighted Average
	0.100		14.93% Pervious Area
	0.570		85.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 6S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 7S: Proposed Site

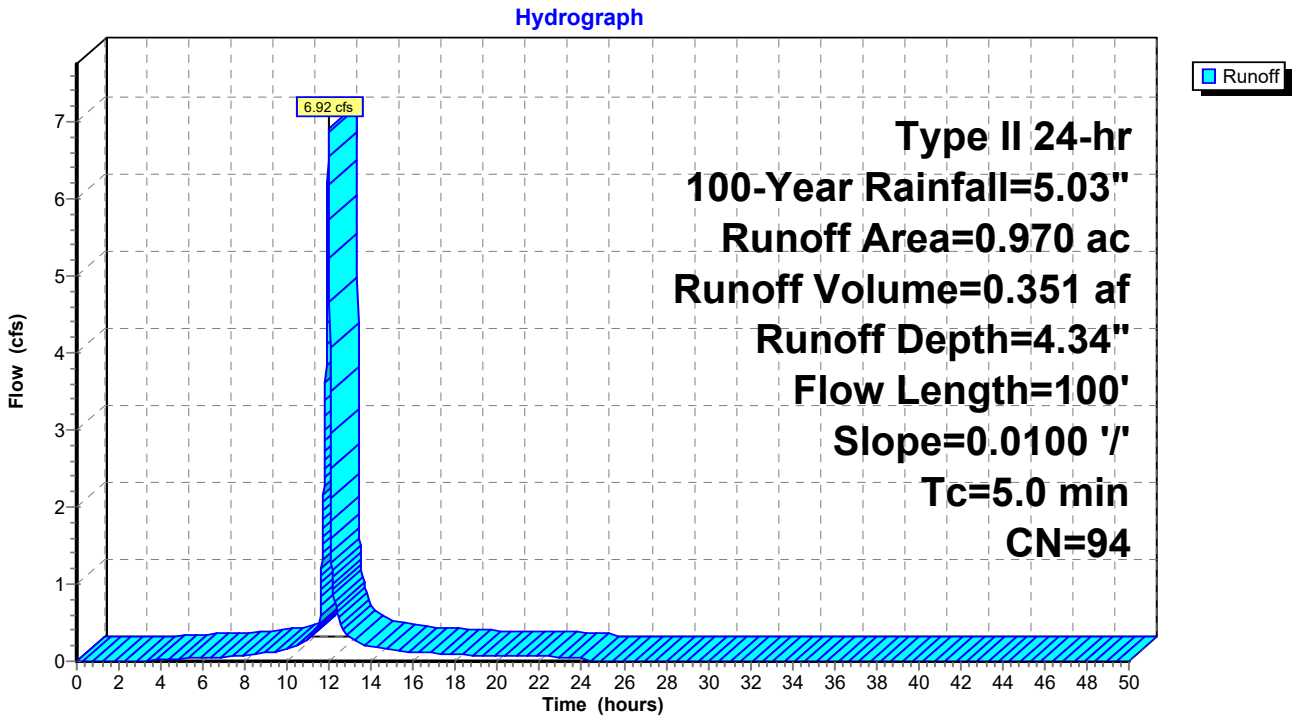
Runoff = 6.92 cfs @ 11.96 hrs, Volume= 0.351 af, Depth= 4.34"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.220	80	>75% Grass cover, Good, HSG D
*	0.750	98	Impervious, HSG D
	0.970	94	Weighted Average
	0.220		22.68% Pervious Area
	0.750		77.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 7S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Subcatchment 8S: Proposed Site

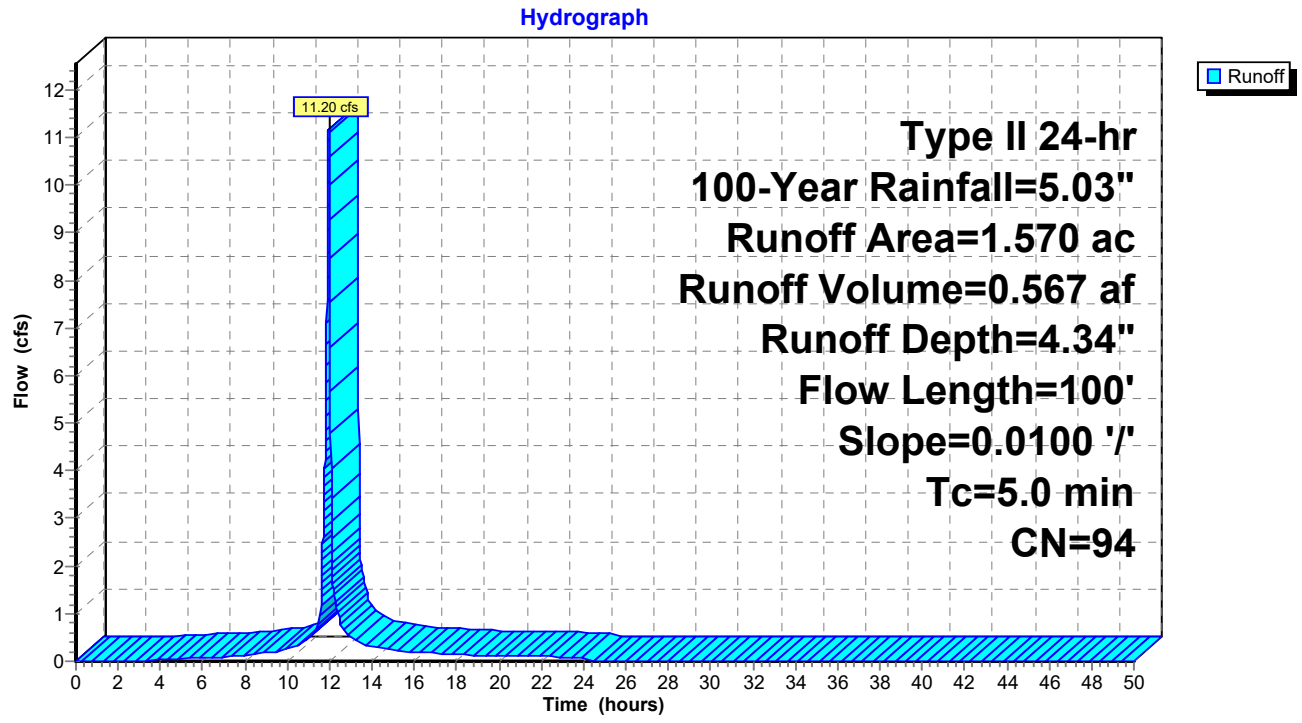
Runoff = 11.20 cfs @ 11.96 hrs, Volume= 0.567 af, Depth= 4.34"
Routed to Pond 1P : Detention Storage & Outlet

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.03"

	Area (ac)	CN	Description
	0.310	80	>75% Grass cover, Good, HSG D
*	1.260	98	Impervious, HSG D
	1.570	94	Weighted Average
	0.310		19.75% Pervious Area
	1.260		80.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0100	0.92		**Sheet Flow, Overland - Pvmt.** Smooth surfaces n= 0.011 P2= 2.50"
1.8	100	Total, Increased to minimum Tc = 5.0 min			

Subcatchment 8S: Proposed Site



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Summary for Pond 1P: Detention Storage & Outlet

Inflow Area = 6.950 ac, 84.75% Impervious, Inflow Depth = 4.47" for 100-Year event
Inflow = 50.20 cfs @ 11.96 hrs, Volume= 2.588 af
Outflow = 25.60 cfs @ 12.04 hrs, Volume= 2.585 af, Atten= 49%, Lag= 5.0 min
Primary = 25.60 cfs @ 12.04 hrs, Volume= 2.585 af
Routed to nonexistent node 1L

Routing by Dyn-Stor-Ind method, Time Span= 0.00-50.00 hrs, dt= 0.01 hrs
Peak Elev= 573.83' @ 12.04 hrs Surf.Area= 20,584 sf Storage= 29,010 cf

Plug-Flow detention time= 34.5 min calculated for 2.585 af (100% of inflow)
Center-of-Mass det. time= 33.7 min (795.7 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	571.50'	14,391 cf	**82.75'W x 248.75'L x 2.54'H Field A** 52,318 cf Overall - 16,341 cf Embedded = 35,977 cf x 40.0% Voids
#2A	572.00'	16,341 cf	**Cultec R-150XLHD** x 600 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap Row Length Adjustment= +0.75' x 2.65 sf x 25 rows
		30,732 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	571.50'	**12.0" Round Outlet Pipe X 5.00** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 571.50' / 571.50' S= 0.0000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=25.59 cfs @ 12.04 hrs HW=573.83' (Free Discharge)
↑—**1=Outlet Pipe** (Inlet Controls 25.59 cfs @ 6.52 fps)

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet - Chamber Wizard Field A

Chamber Model = Cultec R-150XLHD (Cultec Recharger®150XLHD)
Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
Row Length Adjustment= +0.75' x 2.65 sf x 25 rows

33.0" Wide + 6.0" Spacing = 39.0" C-C Row Spacing

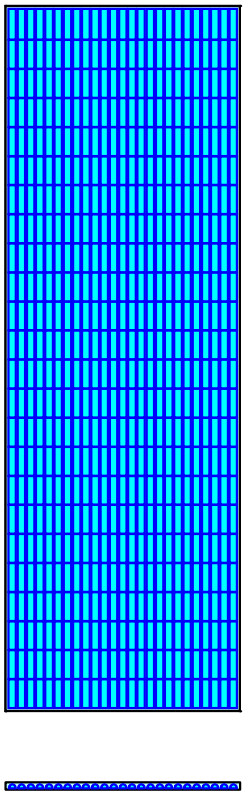
24 Chambers/Row x 10.25' Long +0.75' Row Adjustment = 246.75' Row Length +12.0" End Stone x 2 = 248.75' Base Length
25 Rows x 33.0" Wide + 6.0" Spacing x 24 + 12.0" Side Stone x 2 = 82.75' Base Width
6.0" Stone Base + 18.5" Chamber Height + 6.0" Stone Cover = 2.54' Field Height

600 Chambers x 27.2 cf +0.75' Row Adjustment x 2.65 sf x 25 Rows = 16,341.0 cf Chamber Storage

52,317.8 cf Field - 16,341.0 cf Chambers = 35,976.8 cf Stone x 40.0% Voids = 14,390.7 cf Stone Storage

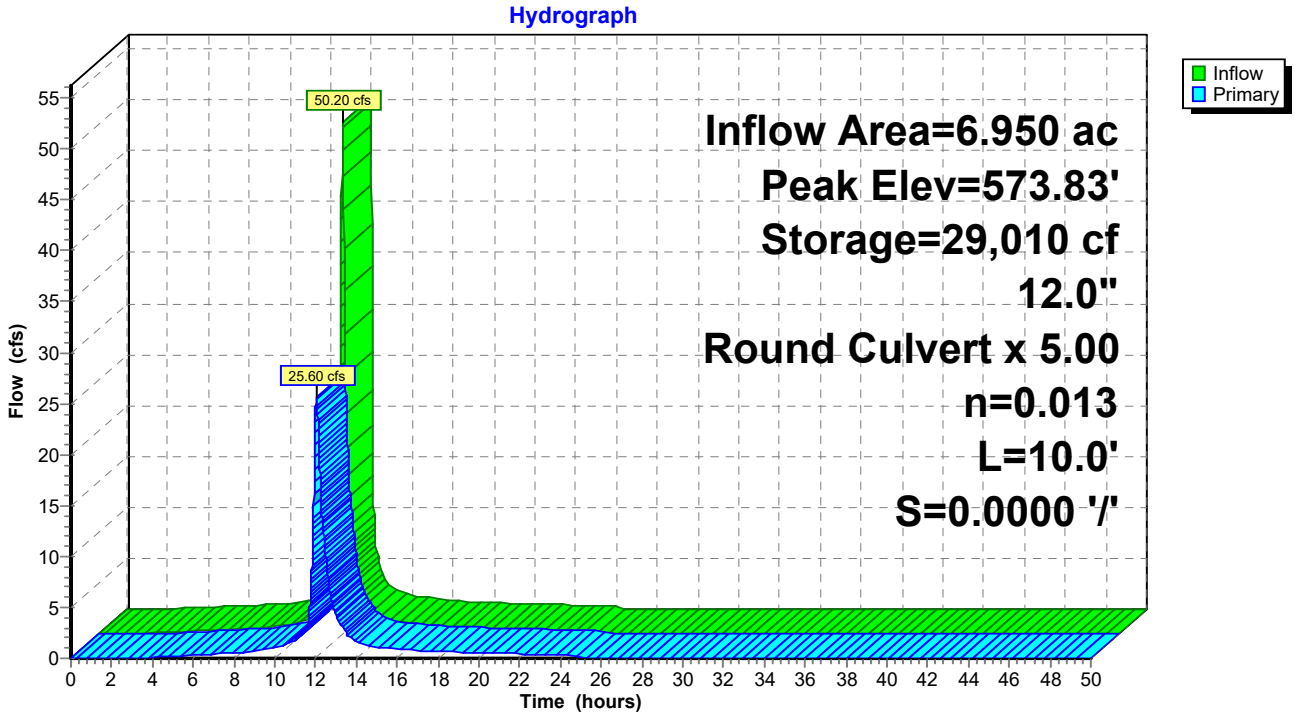
Chamber Storage + Stone Storage = 30,731.7 cf = 0.706 af
Overall Storage Efficiency = 58.7%
Overall System Size = 248.75' x 82.75' x 2.54'

600 Chambers
1,937.7 cy Field
1,332.5 cy Stone



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Pond 1P: Detention Storage & Outlet



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix E

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.**

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

Table of Contents

Part 1. PERMIT COVERAGE AND LIMITATIONS 1
- A. Permit Application 1
- B. Effluent Limitations Applicable to Discharges from Construction Activities 1
- C. Post-construction Stormwater Management Practice Requirements 4
- D. Maintaining Water Quality 8
- E. Eligibility Under This General Permit 9
- F. Activities Which Are Ineligible for Coverage Under This General Permit 9

Part II. PERMIT COVERAGE 12
- A. How to Obtain Coverage 12
- B. Notice of Intent (NOI) Submittal 13
- C. Permit Authorization 13
- D. General Requirements For Owners or Operators With Permit Coverage 15
- E. Permit Coverage for Discharges Authorized Under GP-0-15-002 17
- F. Change of Owner or Operator 17

Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP) 18
- A. General SWPPP Requirements 18
- B. Required SWPPP Contents 20
- C. Required SWPPP Components by Project Type 24

Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS 24
- A. General Construction Site Inspection and Maintenance Requirements 24
- B. Contractor Maintenance Inspection Requirements 24
- C. Qualified Inspector Inspection Requirements 25

Part V. TERMINATION OF PERMIT COVERAGE 29
- A. Termination of Permit Coverage 29

Part VI. REPORTING AND RETENTION RECORDS 31
- A. Record Retention 31
- B. Addresses 31

Part VII. STANDARD PERMIT CONDITIONS 31
- A. Duty to Comply 31
- B. Continuation of the Expired General Permit 32
- C. Enforcement 32
- D. Need to Halt or Reduce Activity Not a Defense 32
- E. Duty to Mitigate 33
- F. Duty to Provide Information 33
- G. Other Information 33
- H. Signatory Requirements 33
- I. Property Rights 35
- J. Severability 35

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

K. Requirement to Obtain Coverage Under an Alternative Permit....35
L. Proper Operation and Maintenance....36
M. Inspection and Entry....36
N. Permit Actions....37
O. Definitions....37
P. Re-Opener Clause....37
Q. Penalties for Falsification of Forms and Reports....37
R. Other Permits....38
APPENDIX A – Acronyms and Definitions....39
Acronyms....39
Definitions....40
APPENDIX B – Required SWPPP Components by Project Type....48
Table 1....48
Table 2....50
APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal....52
APPENDIX D – Watersheds with Lower Disturbance Threshold....58
APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)....59
APPENDIX F – List of NYS DEC Regional Offices....65

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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*

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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:

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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*

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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*

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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:

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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;

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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,

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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:

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(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,

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 .

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

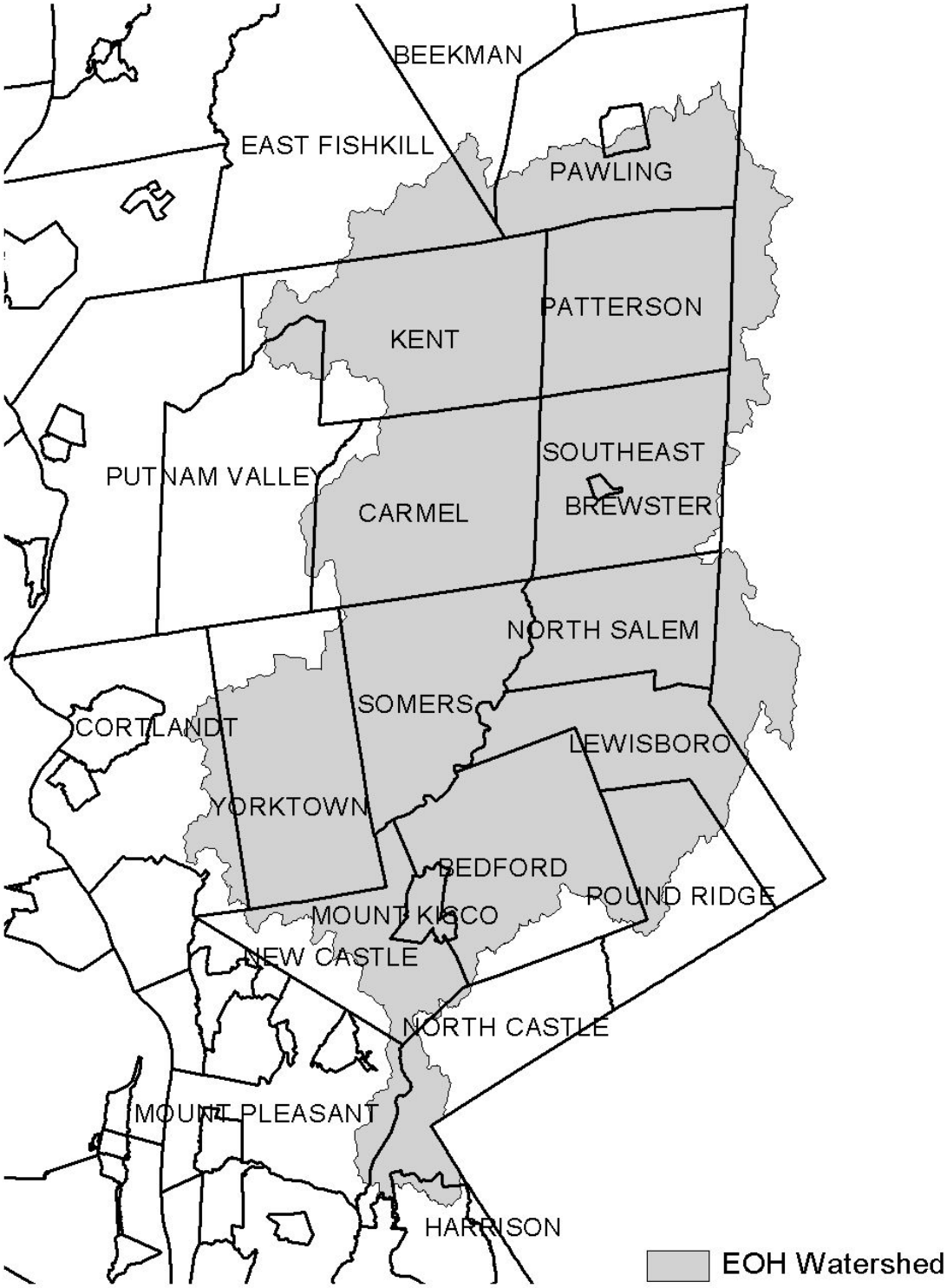
APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 1 - New York City Watershed East of the Hudson



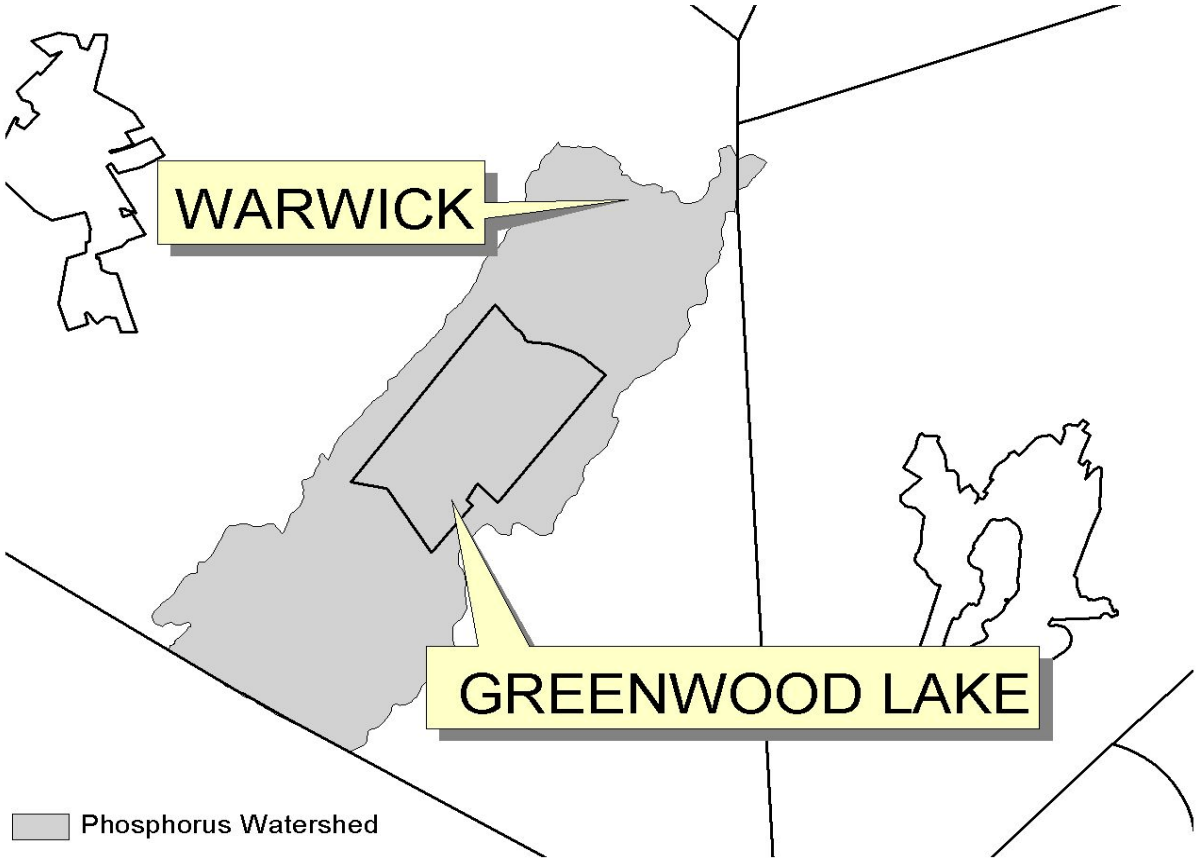
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 2 - Onondaga Lake Watershed



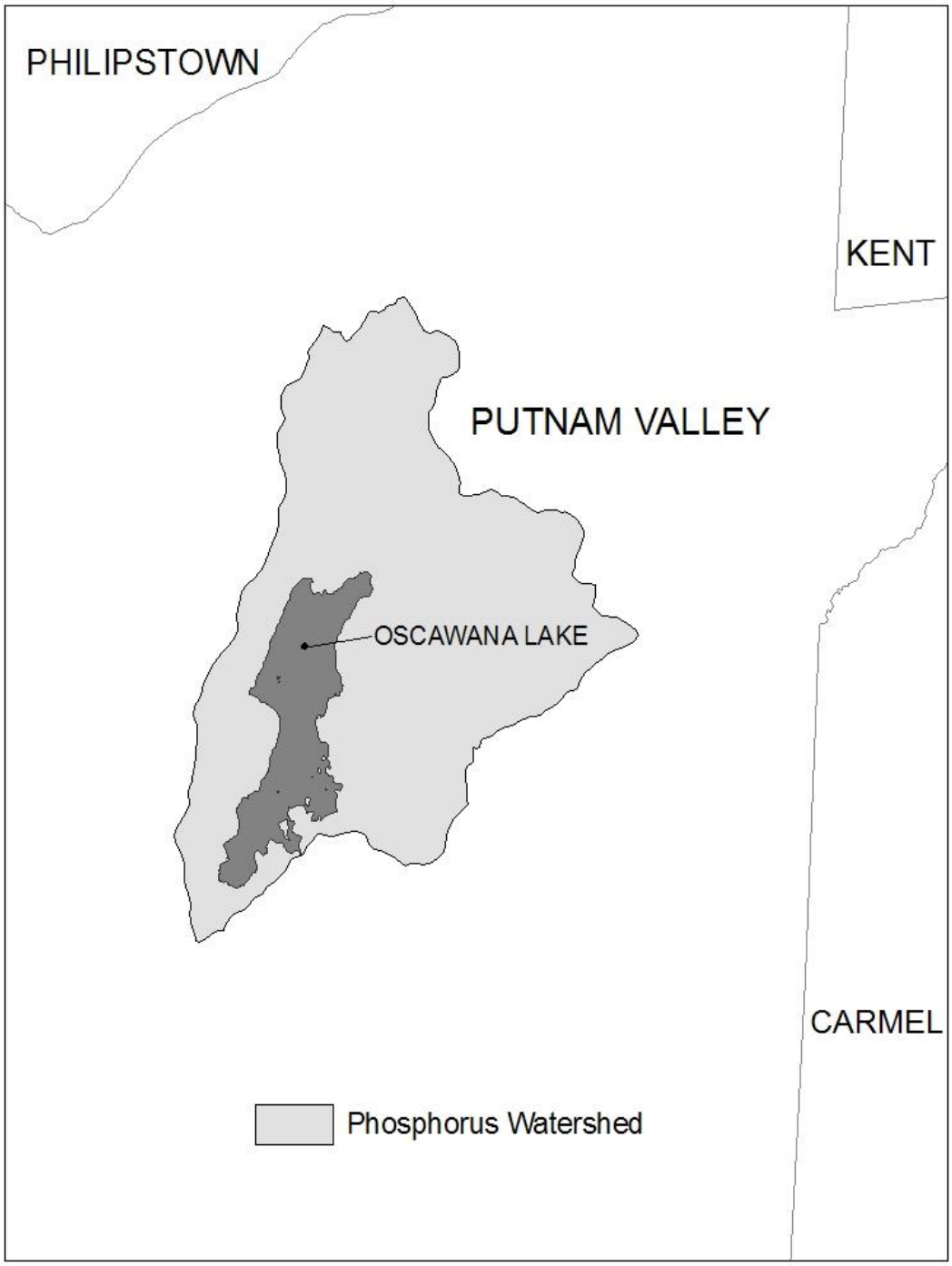
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 3 - Greenwood Lake Watershed



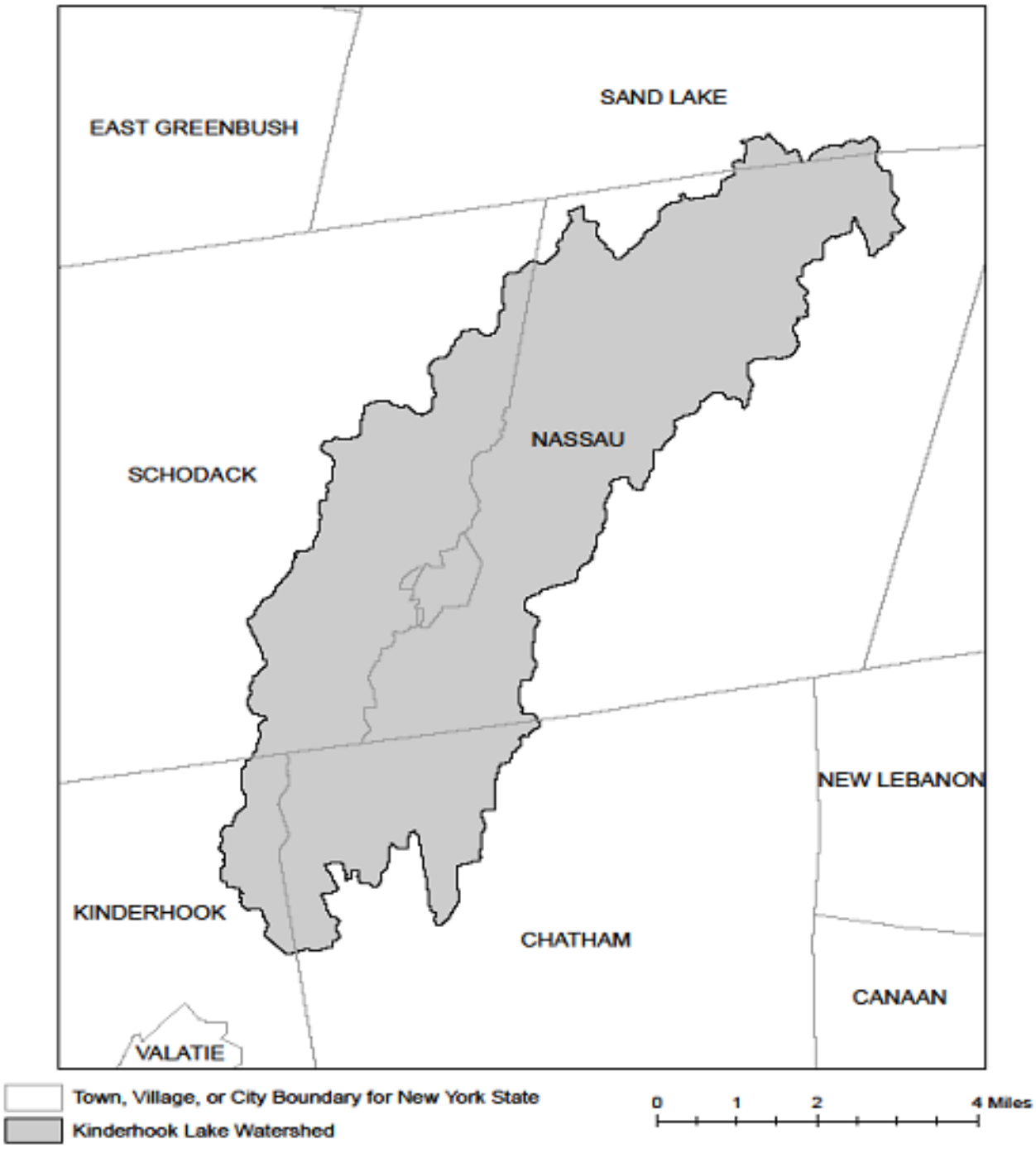
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 4 - Oscawana Lake Watershed



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Figure 5 - Kinderhook Lake Watershed



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix F

Forms

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

STORM WATER POLLUTION PREVENTION PLAN
CONTRACTOR'S CERTIFICATION STATEMENT

Amherst Development Park
6000-6040 North Bailey Ave
Amherst, NY 14226

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: Amherst Development Park - 6000-6040 North Bailey Ave, Amherst, NY 14226

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.

Owner/Operator First Name M.I. Last Name

_____

Signature

_____

Date

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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

Amherst Development Park - 6000-6040 North Bailey Ave, Amherst, NY 14226

Owner/Operator Information

Owner/Operator (Company Name/Private Owner/Municipality Name)

Benderson Development Company, LLC - 570 Delaware Ave - Buffalo, NY 14202

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

11-26-23

Signature Date

Revised: January 2020

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix G

NYSDEC Notice of Termination (NOT)

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Post Construction Stormwater Management

Facility Certification Form Cover Sheet

A. General Information

Use only one Cover Sheet per site with as many specific structural BMP Inspection Report attachments as needed. Please attach digital photographs of the site and structural BMPs as applicable.

Development Name:_____ Inspection Date:_____

BMP Owner:_____ Inspection Company:_____

Owner Address:_____ Company Address:_____

Owner Phone #:_____ Inspector Name:_____

Owner Email:_____ Inspector Phone #:_____

Inspector Email:_____

B. Inspection Report Attachments

The listed stormwater controls are the Structural BMPs who's Inspection Reports are to be completed per the NYS Stormwater Design Manual for this site. Please use one inspection report per BMP inspected and submit all forms together with this Cover Sheet as one single report. Also, please document the number of each structural BMP found at this site in the space below.

BMP	# of BMP	BMP	# of BMP
Micropool Extended Detention Pond (P-1)		Infiltration Basin (I-2)	
Wet Pond (P-2)		Dry Well (I-3)	
Wet Extended Detention Pond (P-3)		Surface Sand Filter (F-1)	
Multiple Pond System (P-4)		Underground Sand Filter (F-2)	
Shallow Wetland (W-1)		Perimeter Sand Filter (F-3)	
Extended Detention Wetland (W-2)		Organic Filter (F-4)	
Pond/ Wetland System (W-3)		Bioretention (F-5)	
Pocket Wetland (W-4)		Dry Swale (O-1)	
Infiltration Trench (I-1)		Wet Swale (O-2)	
Alternate Stormwater Management Practices			

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Post Construction Stormwater Management

C. Inspection Results

FAIL*

*** If any one item on the inspection form is coded as "Work needed", then the entire BMP fails inspection.**

***If a site has multiple BMPs and on fails inspection, this cover sheet is marked as fail until all items on all BMPs pass inspection.**

NOTE: Applicable BMP Inspection Reports and confirmatory digital photographs summarizing required repairs must be submitted to the Town following completion of the preliminary inspection. A re-inspection and certification must be completed within 30 days of the failed preliminary report.

PASS

NOTE: A passing inspection form should be signed below by the appropriate professional and submitted to the Town on or before the established inspection due date. Attach all applicable BMP Inspection Reports and confirmatory digital photographs accordingly.

D. Professional Certification

To be completed only when all structural BMPs at this site are functional with no outstanding maintenance issues.

I,_____, as a duly registered _____ attest that a thorough inspection has been completed for all structural BMPsthat are associated with this particular site. All inspected structural BMPs are performing properly and are in compliance with the terms and conditions of the recorded maintenance agreement for the site.

Signature:_____

Date:_____

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix H

Construction Documents

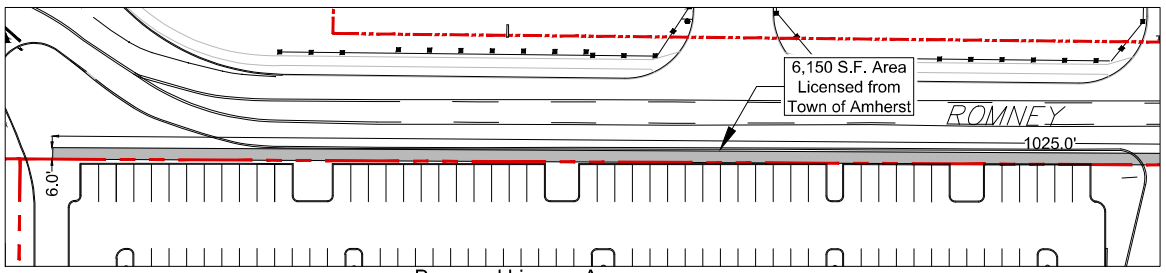
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

TOWN OF AMHERST, NY ZONING ANALYSIS		
	REQUIRED	PROVIDED
ZONED (RD)	R-D	R-D
MIN LOT AREA	1 AC	17.14 AC
MAX. BUILDING HEIGHT	65'	<30'
BUILDING SETBACKS:		
FRONT YARD	40'	102.3'
SIDE YARD	15'	16.7'
REAR YARD	15'	48.4'
PARKING / ROAD/AUX SETBACKS:		
FRONT - PROPERTY LINE	*25'	**0'
SIDE YARD	*10'	0'
REAR YARD	10'	**6.0'

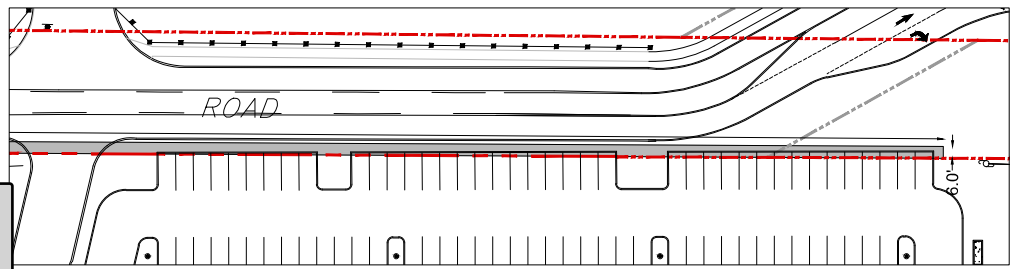
* Area to be determined to be licensed from Town of Amherst
** - Variance Required
- Curb Island Dimensions are measured from the inside of curb.

PROPOSED PARKING ANAYLSIS				
USE	CODE	S.F. USAGE	REQUIRED	PROVIDED
WAREHOUSE	1 / 1000 S.F.	181,343 SF	182 Spaces	
MEDICAL	1 / 150 S.F.	14,960 SF	100 Spaces	
RETAIL/OFFICE	1 / 200 S.F.	66,106 SF	331 Spaces	
TOTAL		262,409 SF	613 Spaces	688 Spaces
STALL SIZE			9' X 19'	9' X 19'

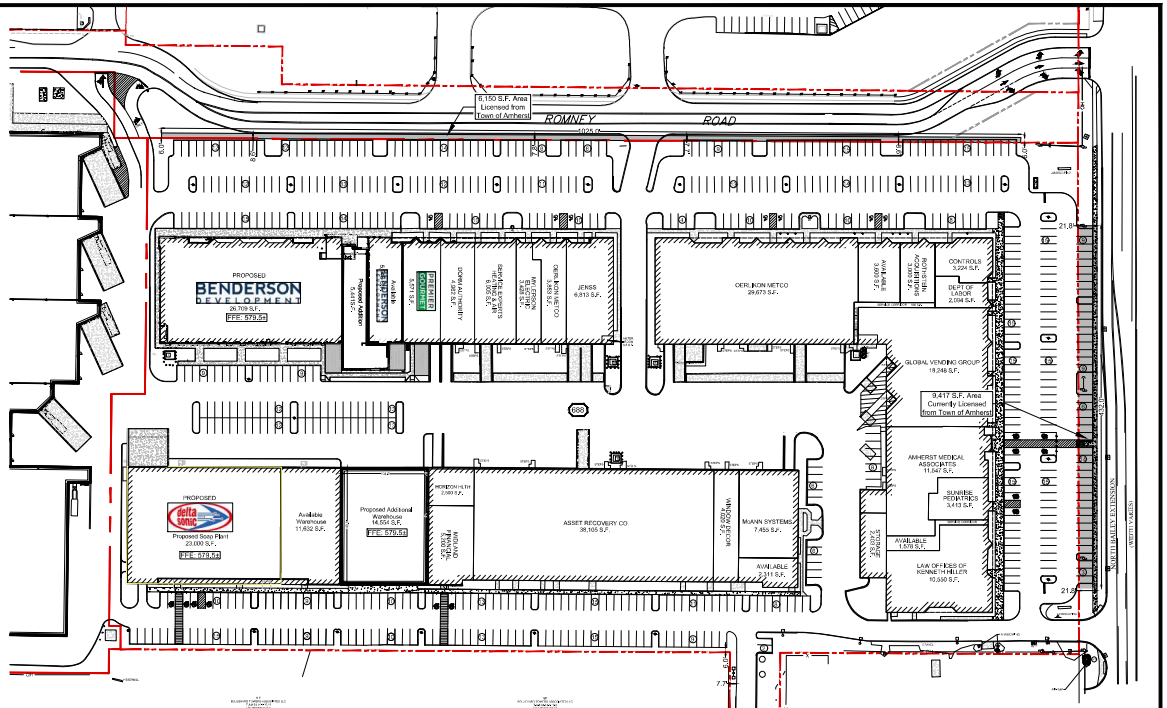
*Refer alternative parking study for site required parking



Proposed Licence Area
(1" = 30')



Proposed Licence Area
(1" = 30')



OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

SPECIAL INFORMATION:
ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ANY AND ALL STRUCTURES.

NOTICE
UNAUTHORIZED ALTERATIONS OF THIS DOCUMENT ARE IN VIOLATION OF SECTION 7209 OF THE STATE EDUCATION LAW.

NORTH

811 Know what's below. Call before you dig

PROPERTY NUMBER: #1723
AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

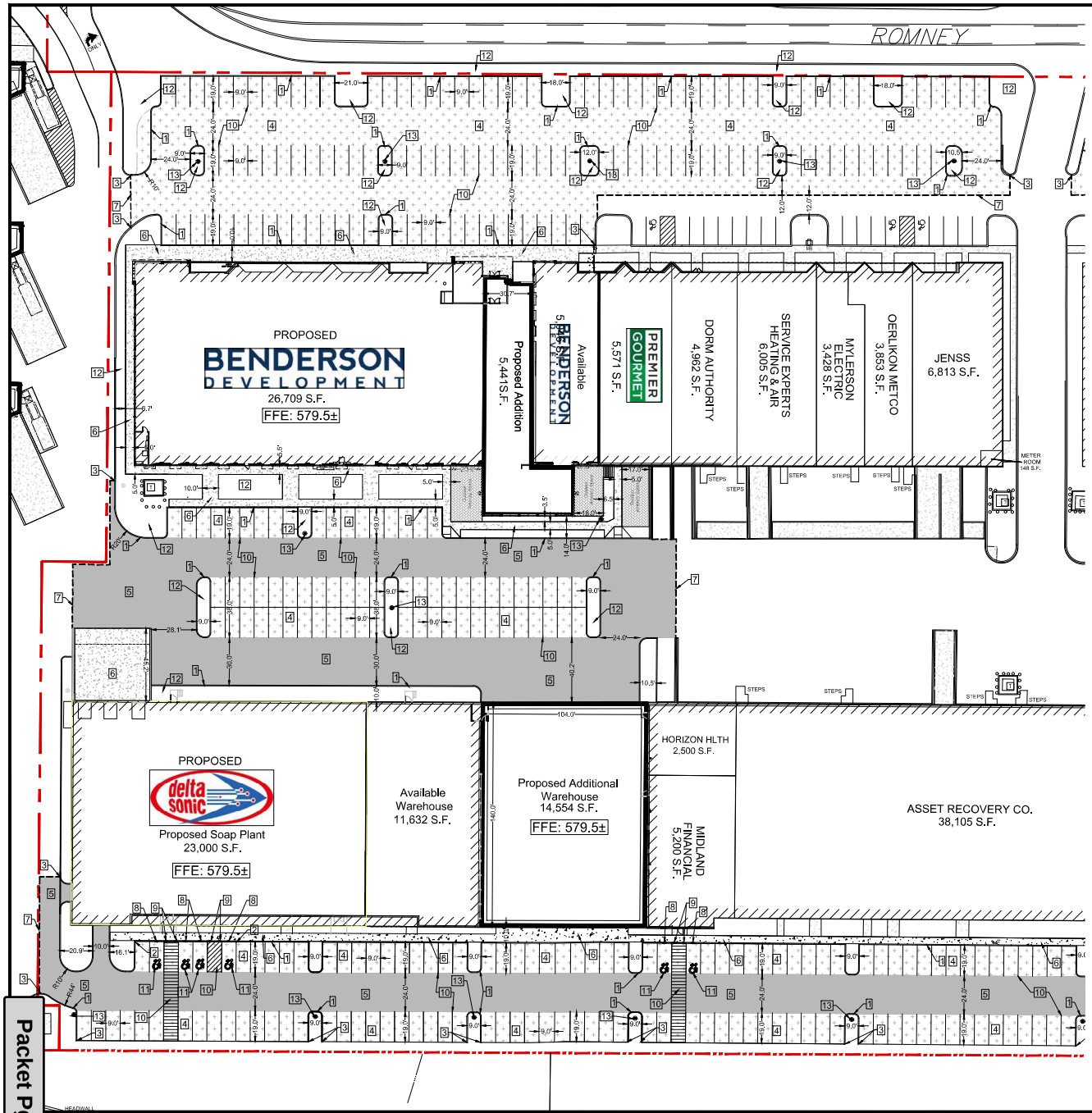
SEAL

TITLE:
Overall Site Plan

SCALE: 1:70
DRAWN BY: DMZ
DRAWING NO.: C4.0
CHECKED BY: MAO
DATE: 11.06.2023

Packet Pg. 562

1.c



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. CONTRACTOR SHALL 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 THE SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THEIR WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS EXCEPT AS DETAILED ON THE PLANS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. BUILDING DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
10. SIDEWALK DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN.
11. CONCRETE SIDEWALK SEALERS: (REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES).
    1) L GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS • SILENCURE WITHIN 24HRS AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED.
    2) ALL COLORED CONCRETE SIDEWALKS SHALL HAVE ONE (#1) COAT: CHEMMASTERS • SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PROCEDURE ABOVE (ALLOWING THE RELEASE AGENT OFF), APPLY 10 DAYS AFTER THIS (IF WEATHER PERMITS) APPLY ONE (1) COAT OF: CHEMMASTERS • POLYSEAL EC.
12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

SITE LEGEND:

- Property line
- 6" Curb (typ).
- Proposed sign & pole
- Proposed Concrete Sidewalk
- Proposed Standard Duty Pavement
- Proposed Heavy Duty Pavement

* All curb radii are 3ft unless noted.
* Refer to General Notes, Concstruction Details and Architectural Plans for Concrete Sealer information.

SITE NOTES:

1. Proposed 6" concrete Curb.
2. Proposed Flush Concrete Curb.
3. Match into Existing Curb or runout over 2'.
4. Proposed Standard Duty Pavement.
5. Proposed Heavy Duty Pavement.
6. Proposed Concrete Pavement/Sidewalk.
7. Match into Existing Pavement.
8. Proposed "Handicapped Parking Only" sign.
9. Proposed "No Parking" sign.
10. 4" Yellow Pavement Stripe (at 2' c-c in no parking zones).
11. Proposed White Pavement symbol (stop bar, directional arrows, accessibility symbol, text)
12. Proposed Landscape Area.
13. Proposed Light Pole Base
14. Proposed Mill and Overlay Asphalt Pavement

NB: All curb Radii to be 3' unless otherwise noted.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

SPECIAL INFORMATION:

ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

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NORTH

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PROPERTY NUMBER: #1723
AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

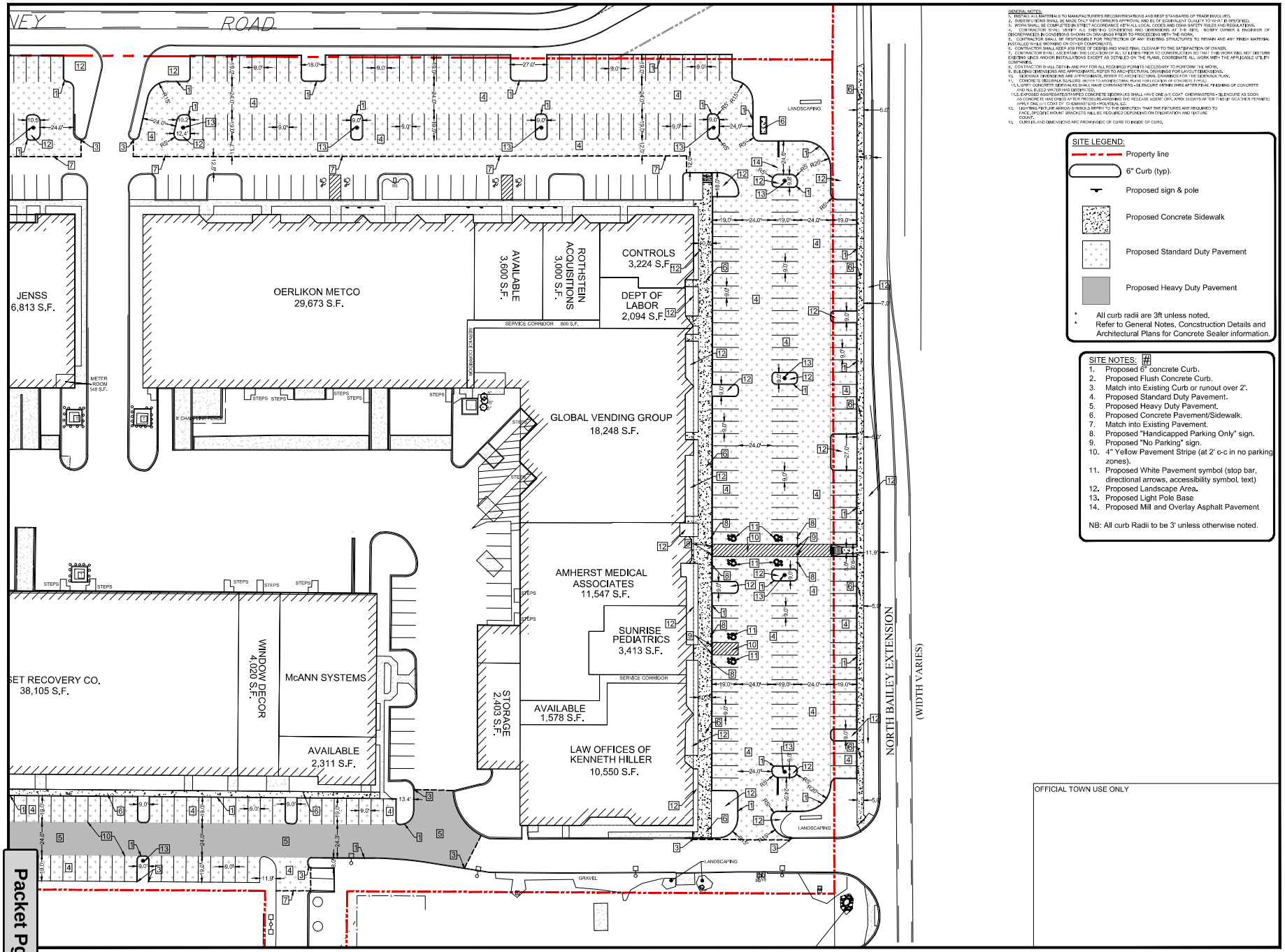
JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE:
Detailed Site Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
DRAWING NO.: C4.
CHECKED BY: MAO
DATE: 08.16.2023

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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. CONTRACTOR SHALL 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 THE 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 EXCEPT AS DETAILED ON THE PLANS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
10. SIDEWALK DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN.
11. CONCRETE SIDEWALK SEALERS: REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES.
    11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMASTERS • SILENCURE WITHIN (HRS) AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED.
    11.2. ALL EXPOSED AGGREGATE CONCRETE SIDEWALKS SHALL HAVE ONE (#1) COAT: CHEMMASTERS • SILENCURE AS SOON AS CONCRETE HAS DRIED BY MFR. PROCEDURE AND BEFORE THE RELEASE AGENT DRY, APPLY (2) DAYS AFTER THIS (IF WEATHER PERMITS) APPLY ONE (1) COAT OF: CHEMMASTERS • POLYSEAL EC.
12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

SITE LEGEND:

- Property line
- 6" Curb (typ).
- Proposed sign & pole
- Proposed Concrete Sidewalk
- Proposed Standard Duty Pavement
- Proposed Heavy Duty Pavement

* All curb radii are 3ft unless noted.
* Refer to General Notes, Concstruction Details and Architectural Plans for Concrete Sealer information.

SITE NOTES:

1. Proposed 6" concrete Curb.
2. Proposed Flush Concrete Curb.
3. Match into Existing Curb or runout over 2'.
4. Proposed Standard Duty Pavement.
5. Proposed Heavy Duty Pavement.
6. Proposed Concrete Pavement/Sidewalk.
7. Match into Existing Pavement.
8. Proposed "Handicapped Parking Only" sign.
9. Proposed "No Parking" sign.
10. 4" Yellow Pavement Stripe (at 2' c-c in no parking zones).
11. Proposed White Pavement symbol (stop bar, directional arrows, accessibility symbol, text)
12. Proposed Landscape Area.
13. Proposed Light Pole Base
14. Proposed Mill and Overlay Asphalt Pavement

NB: All curb Radii to be 3' unless otherwise noted.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

SPECIAL INFORMATION:

ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ANY AND ALL STRUCTURES.

NOTICE

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NORTH

811 Know what's below. Call before you dig

PROPERTY NUMBER: #1723
AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

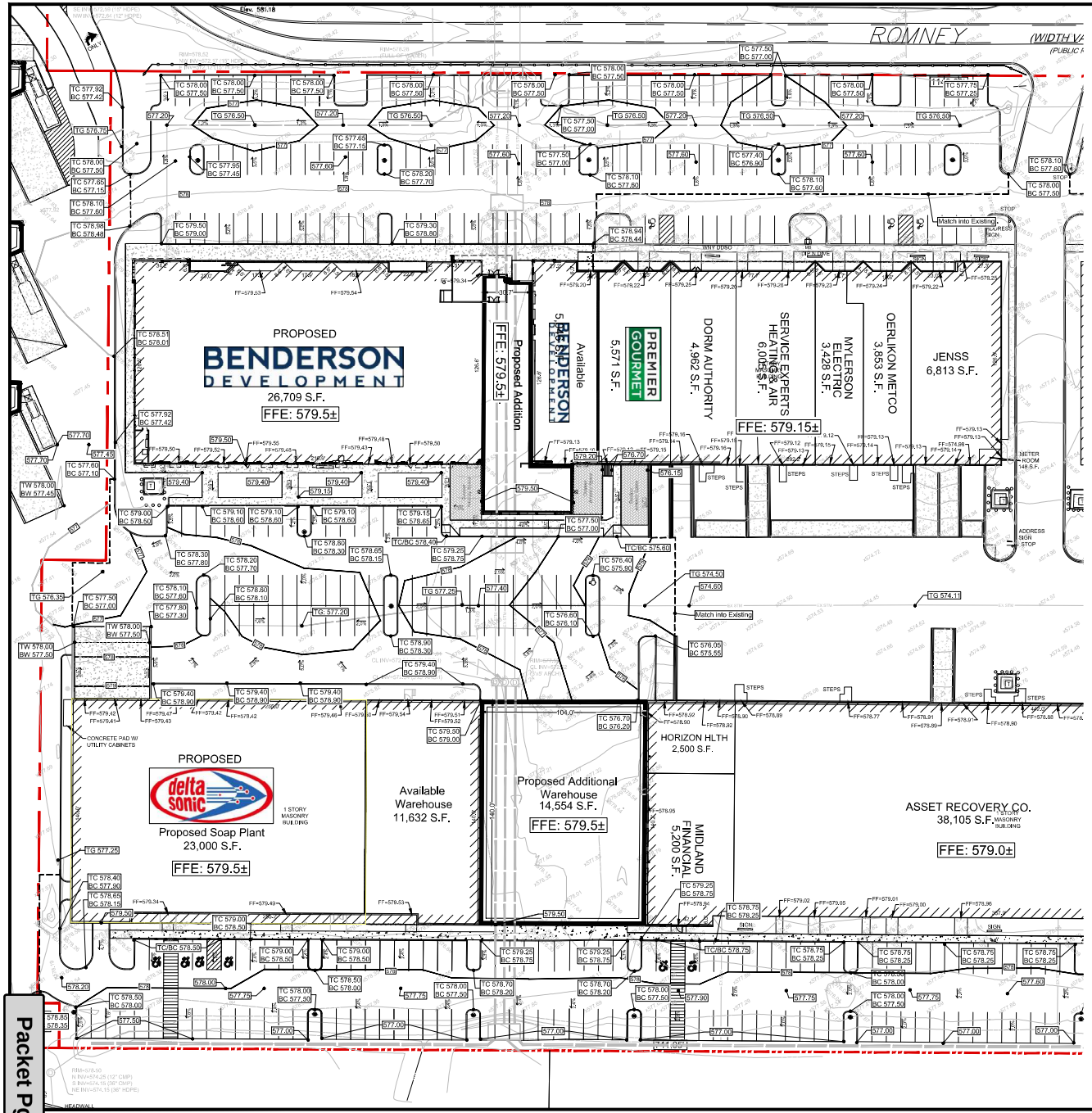
CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE:
Detailed Site Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
DRAWING NO.: C4.
CHECKED BY: MAO
DATE: 08.16.2023



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. CONTRACTOR SHALL 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 THE 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 EXCEPT AS DETAILED ON THE PLANS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
10. SIDEWALK DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN.
11. CONCRETE SIDEWALK SEALERS: REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES.
    11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS +28 ENCURE WITHIN THREE AFTER FINAL FINISHING OF CONCRETE AND ALL BUILD WATER HAS DISSIPATED.
    11.2. COLORED CONCRETE SIDEWALKS SHALL HAVE CONCRETE SIDEWALKS SHALL HAVE ONE (x1) COAT CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PROCEDURE ALLOWING THE RELEASE AGENT OFF, APPLY 28 DAYS AFTER FOR THIS (IF WEATHER PERMITS) APPLY ONE (1) COAT OF: CHEMMASTERS • POLYSEAL EC.
12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE, SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

GRADING LEGEND:

- Property Line
- 6" Curb (typ).
- TG ## — Catch Basin - Top of Grade
- ### — Proposed Contour Line
- ##% — Slope Direction

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

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811 Know what's below. Call before you dig

PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

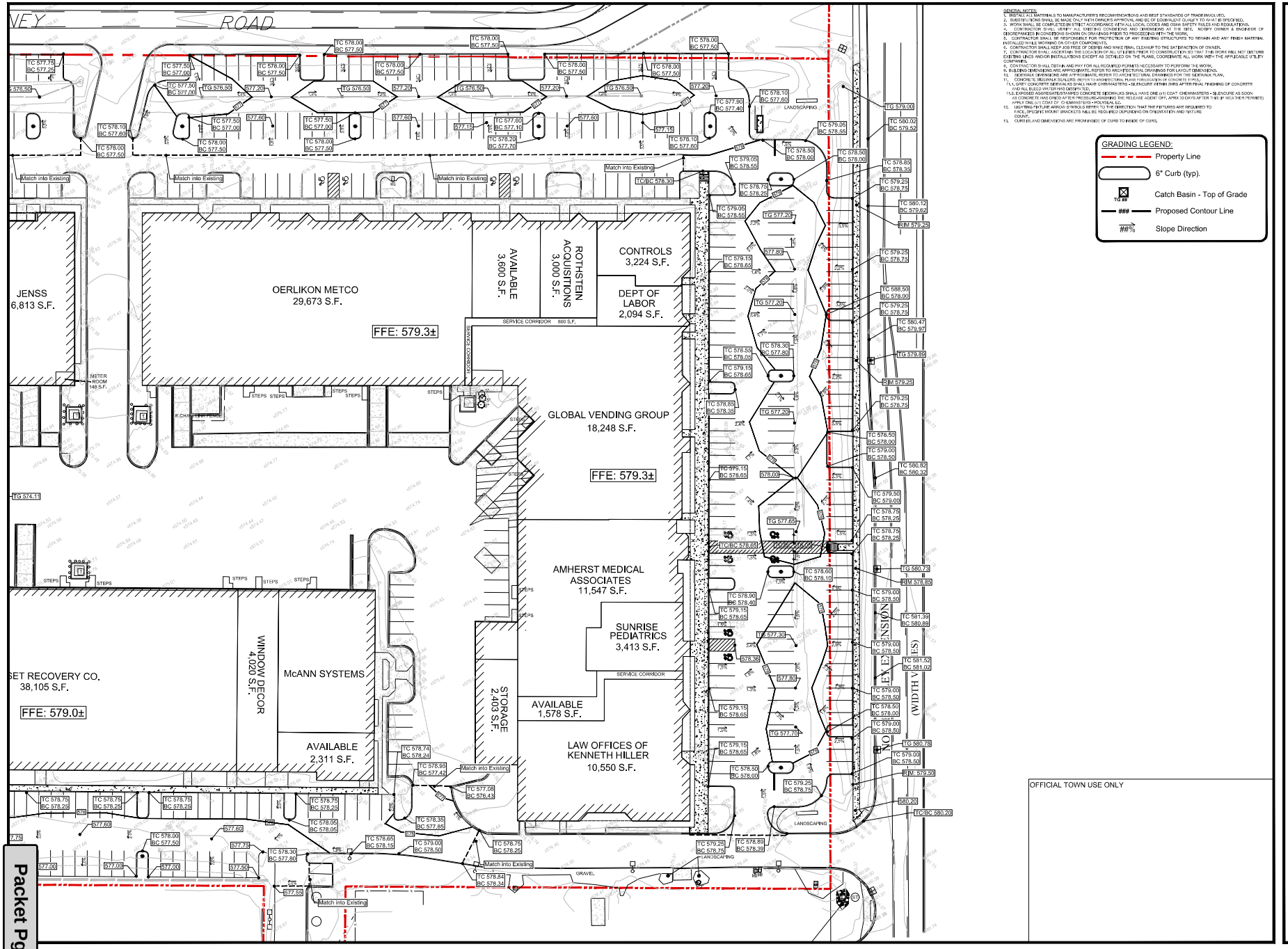
SEAL

TITLE: Grading Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
DRAWING NO.: C5.0
CHECKED BY: MAO
DATE: 11.08.2023

Packet Pg. 565

1.c



GENERAL NOTES:

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11. CONCRETE SIDEWALK SEALERS: (REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES).
    11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMASTERS - 2 ENCLOSURE FINISH (WITHIN 7 DAYS AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED).
    11.2. COLORED CONCRETE SIDEWALKS: CONCRETE SIDEWALKS SHALL HAVE ONE (1) COAT CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED (APPLY PER PRODUCER'S) AND WITHIN THE RELEASE AGENT OFF, APPLY 28 DAYS AFTER TO THIS (IF WEATHER PERMITS) APPLY ONE (1) COAT OF: CHEMMASTERS - POLYSEAL EC.
12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

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Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

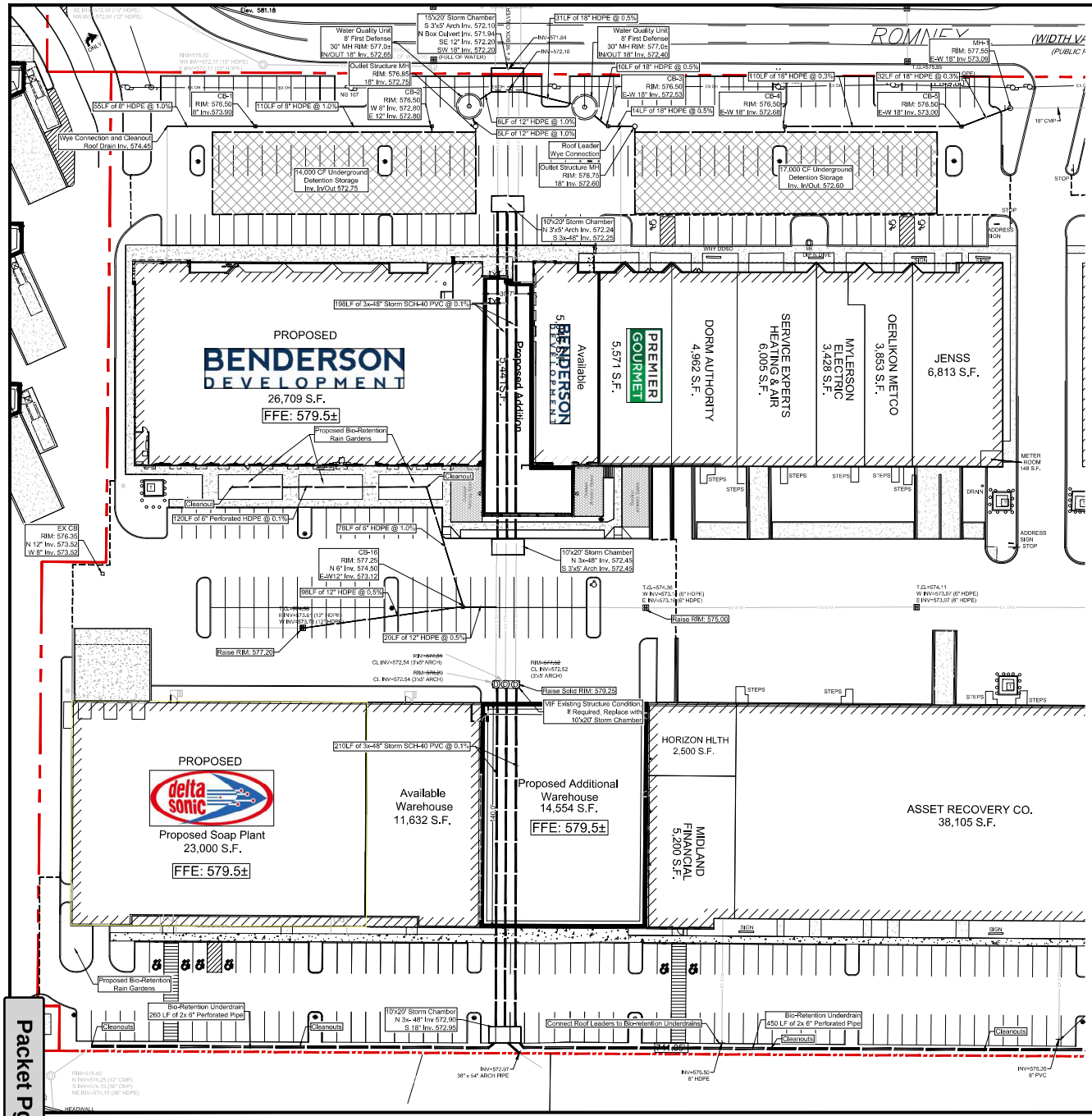
SEAL

TITLE:
Grading Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO. C5.0

Packet Pg. 566

1.c



SPECIAL NOTES:

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    11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS +3 ENCLOSE WITHIN THREE AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED.
    11.2. COLORED CONCRETE SIDEWALKS: CONCRETE SIDEWALKS SHALL HAVE ONE (x1) COAT CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PROCEDURE/ANDING THE RELEASE AGENT OFF, APPLY 28 DAYS AFTER TO THIS (IF WEATHER PERMITS) APPLY ONE (x1) COAT OF CHEMMASTERS • POLYSEAL EC.
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NORTH

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PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

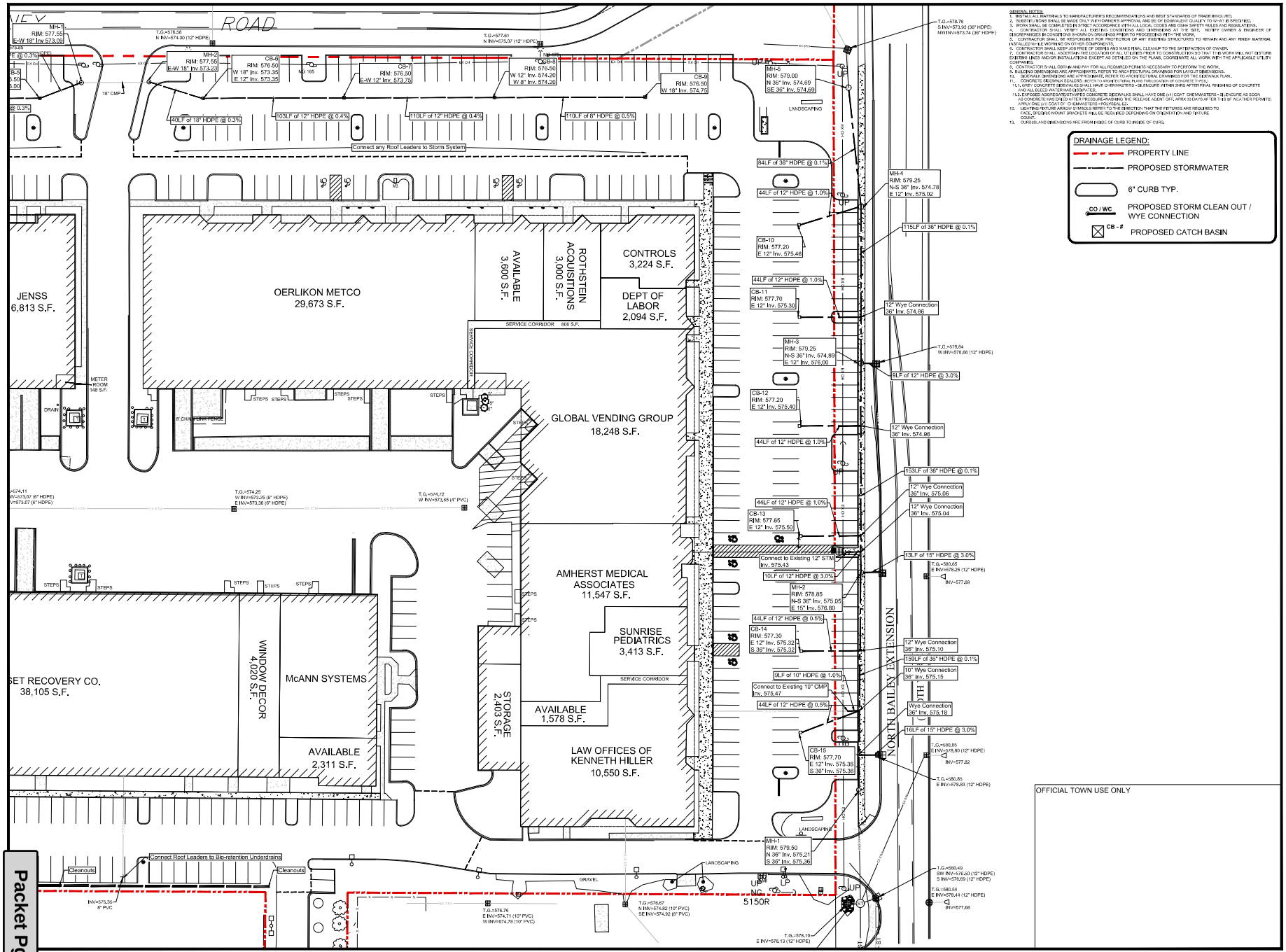
CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE:
Drainage Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
DRAWING NO.: C5.
CHECKED BY: MAO
DATE: 11.08.2023



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AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE:
Drainage Plan (East)

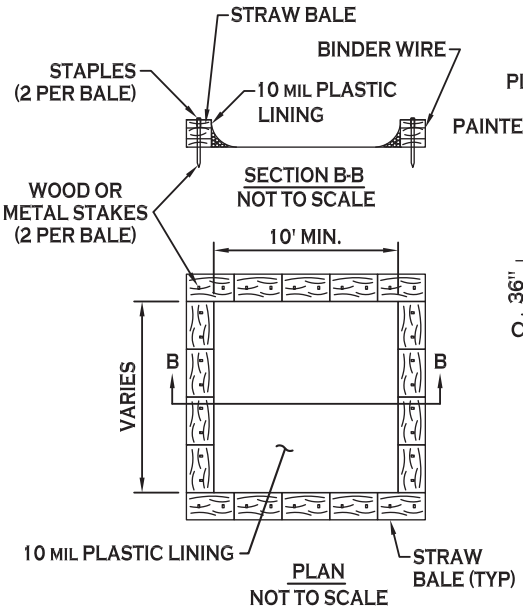
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DRAWING NO.: C5.
CHECKED BY: MAO
DATE: 11.08.2023

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

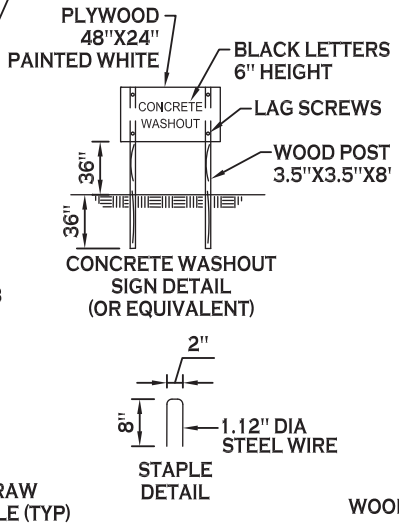
Appendix I

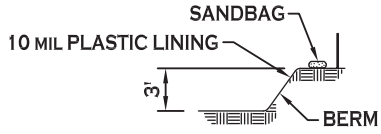
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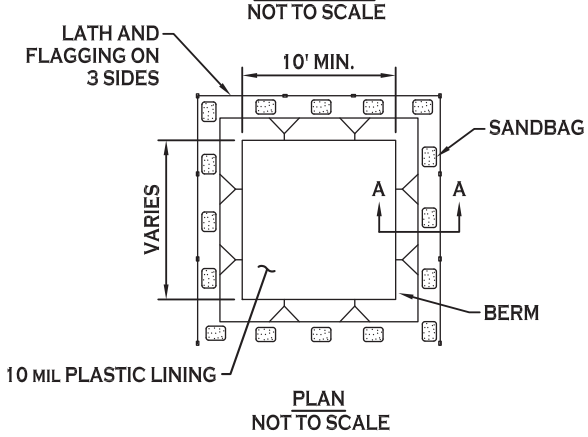
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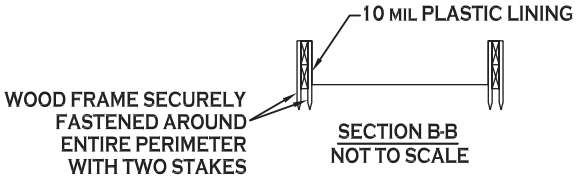
TYPE "ABOVE GRADE" WITH STRAW BALES

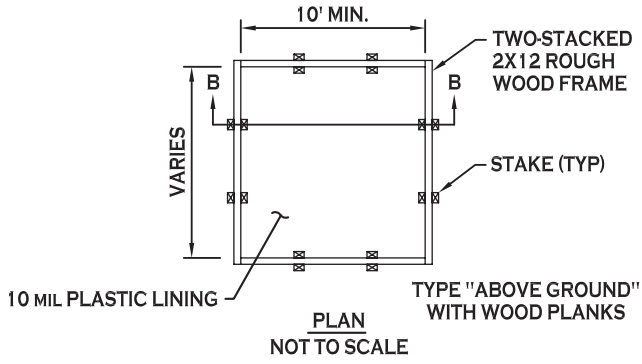






TYPE "BELOW GRADE"



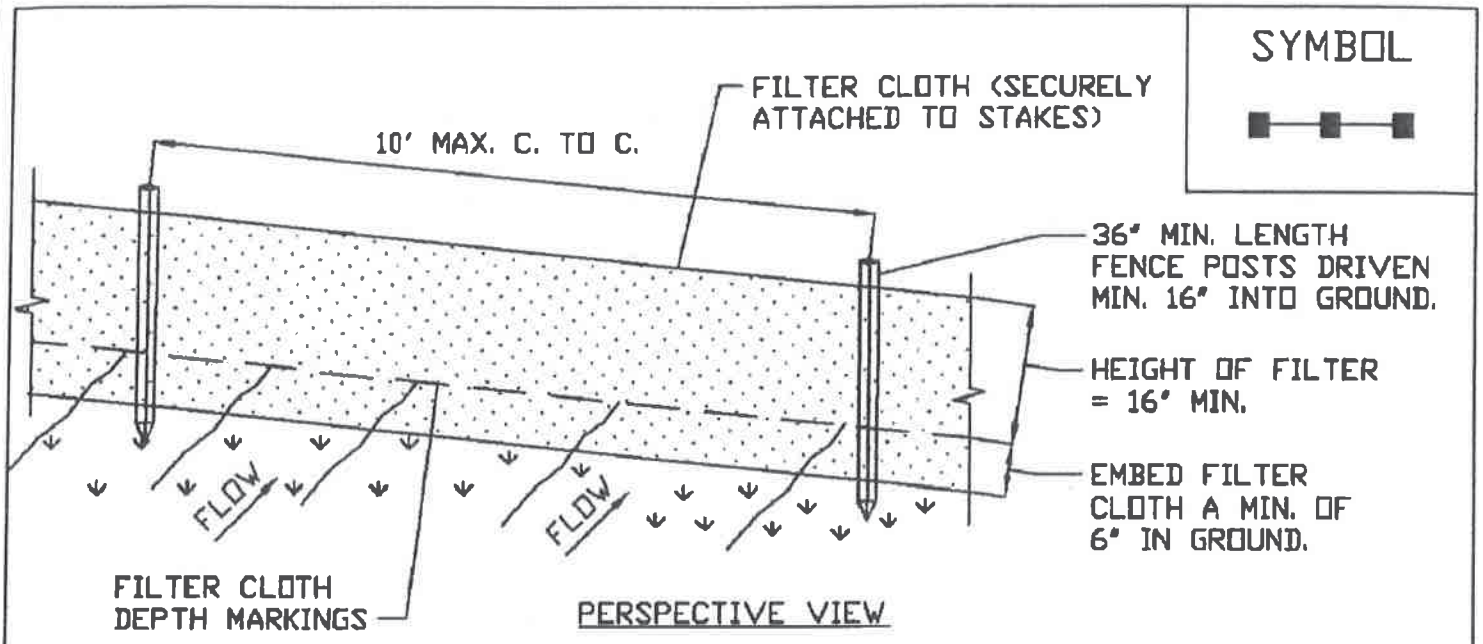


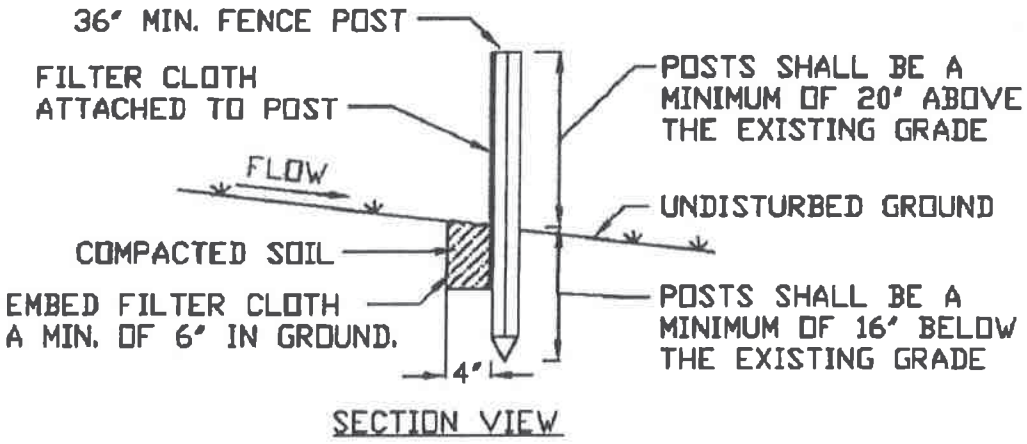
NOTES

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.

CONCRETE WASHOUT DETAIL

NOT TO SCALE



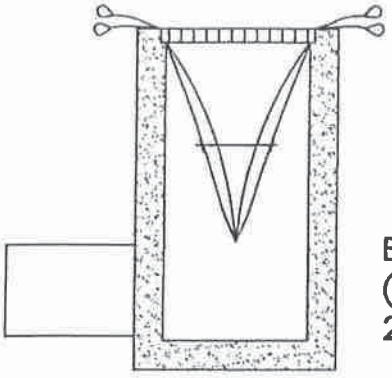


CONSTRUCTION SPECIFICATIONS

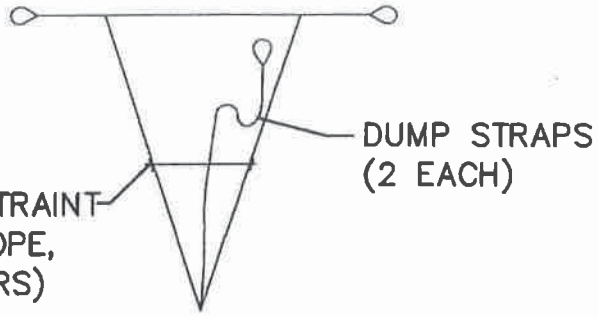
1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE (WITHOUT WIRE MESH BACKING)

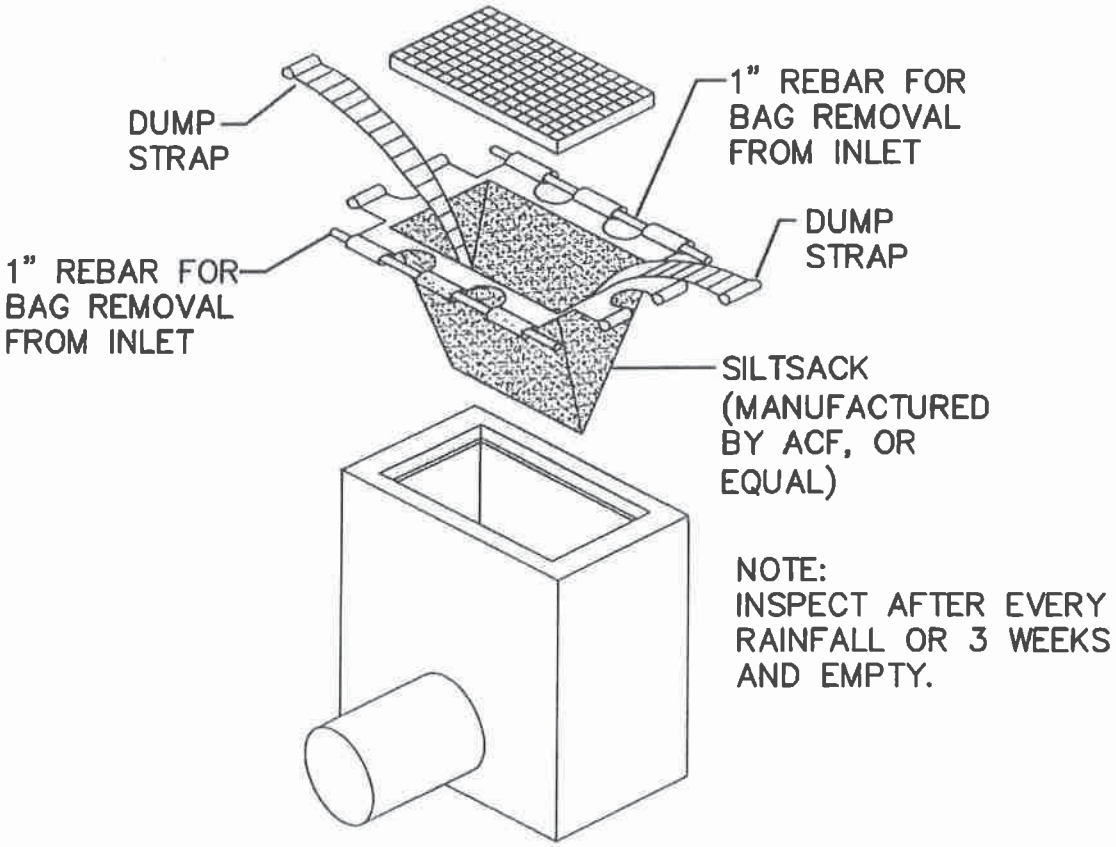
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



INSTALLATION DETAIL



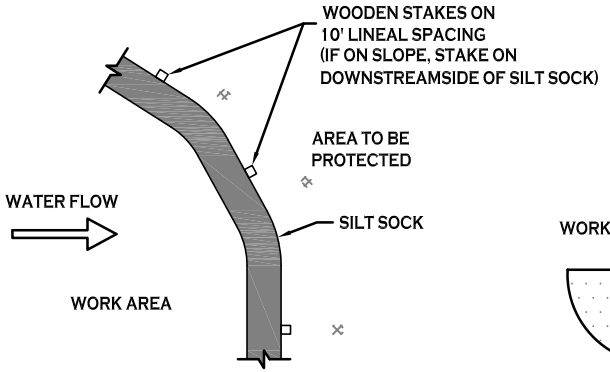
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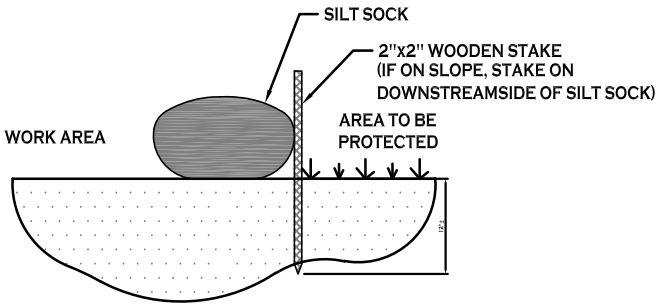
SILT SACK DETAIL

NOT TO SCALE

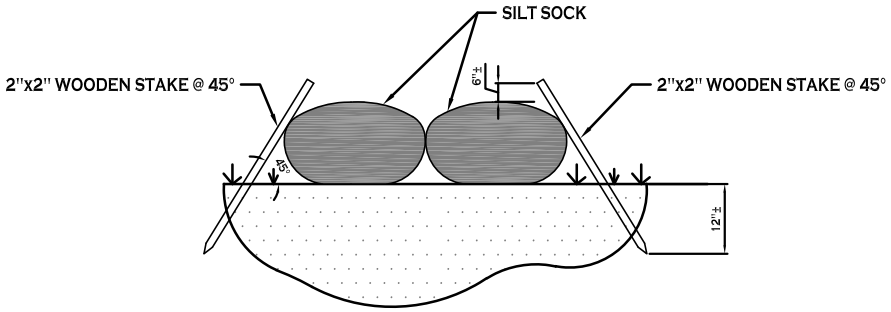
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



PLAN VIEW



SECTION VIEW



SECTION VIEW @ JOINT OVERLAP

NOTES:

CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

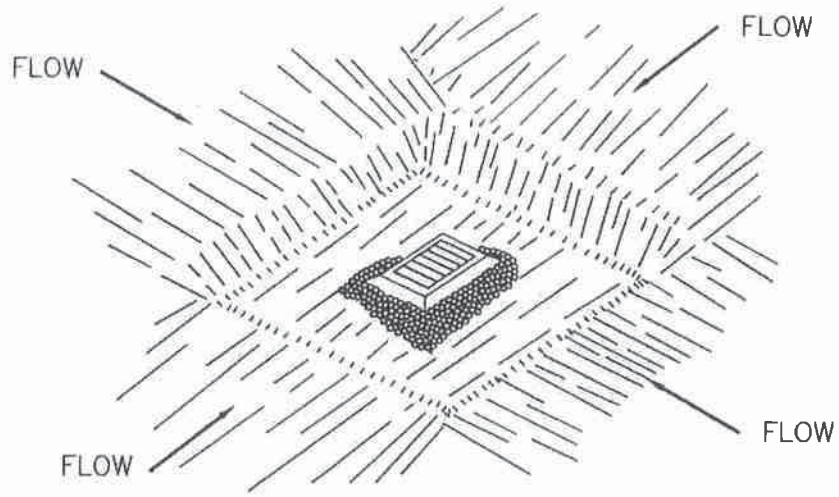
CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED $\frac{1}{2}$ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

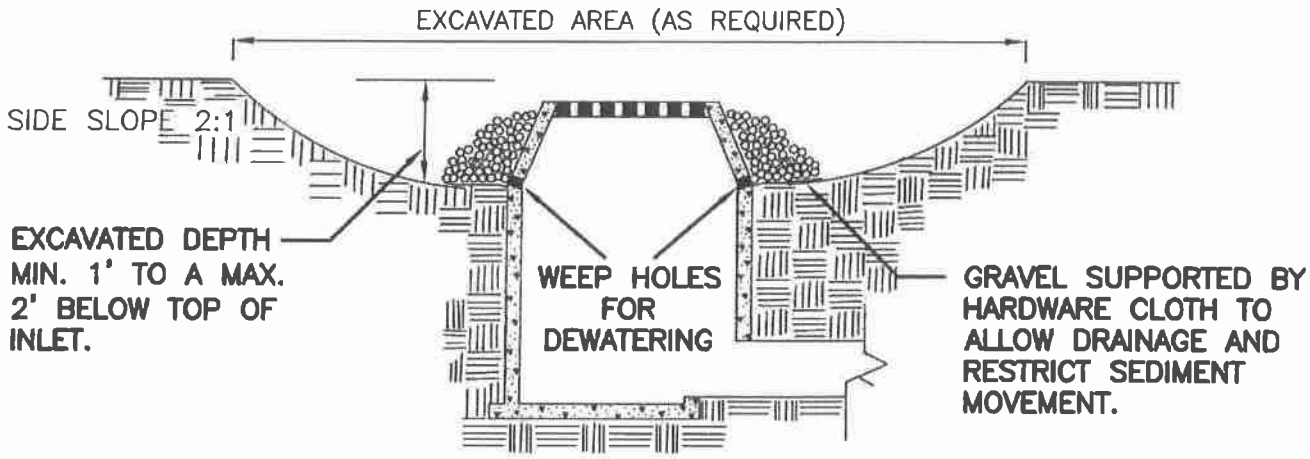
SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

SILT SOCK DETAIL

N.T.S.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)





CONSTRUCTION SPECIFICATIONS

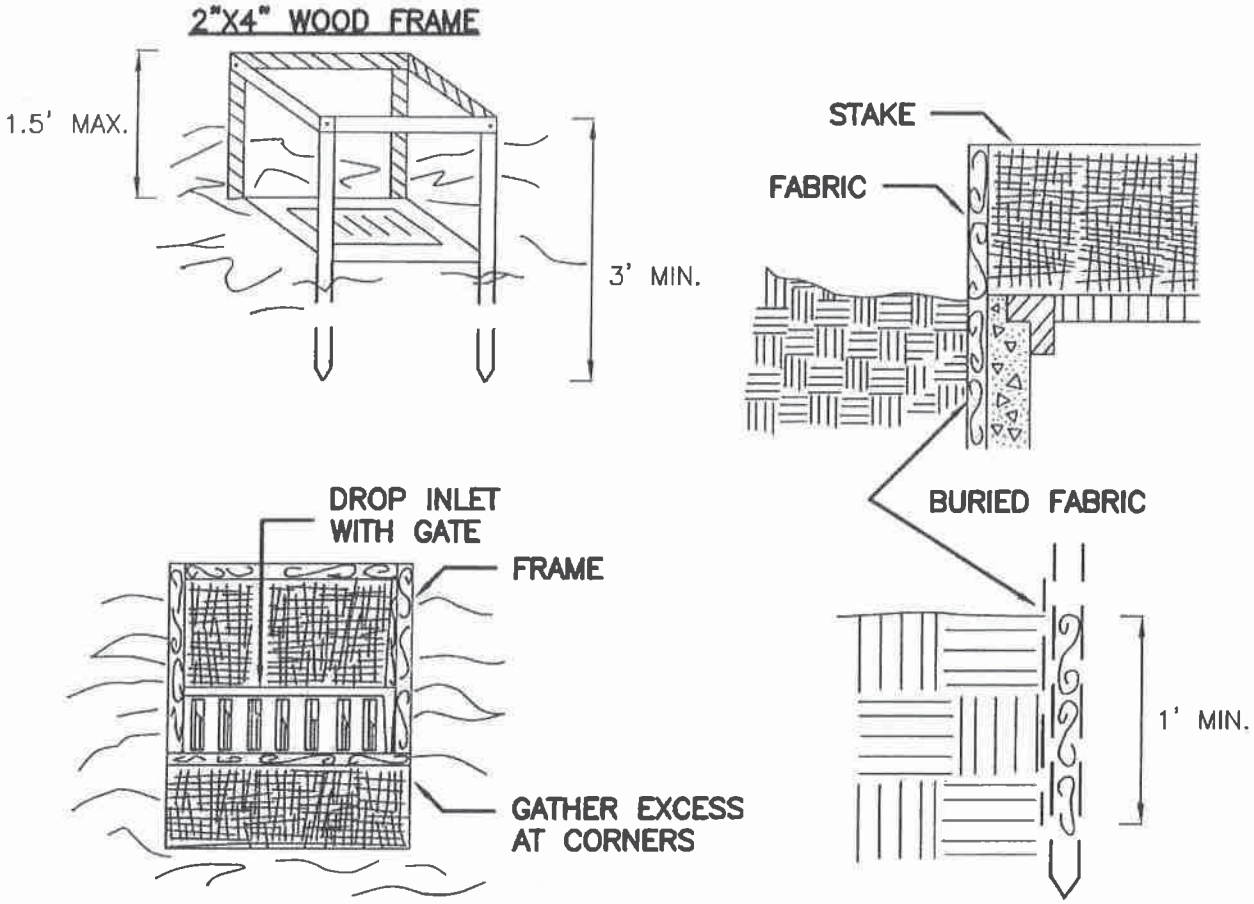
1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE

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CONSTRUCTION SPECIFICATIONS

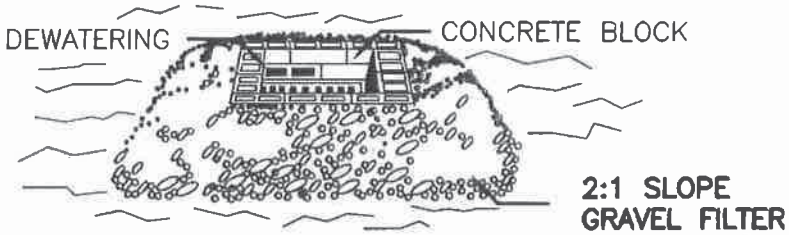
1. FILTER FABRIC SHALL HAVE AN EOS OF 40–85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH 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

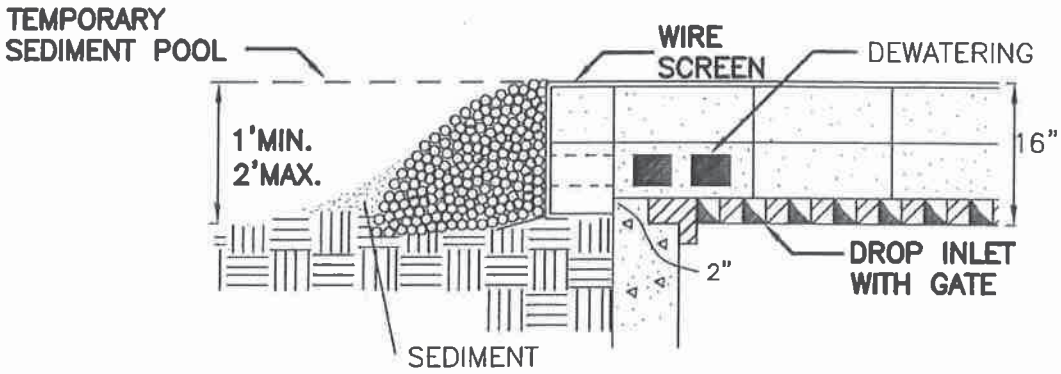
INLET PROTECTION DETAIL 2

NOT TO SCALE

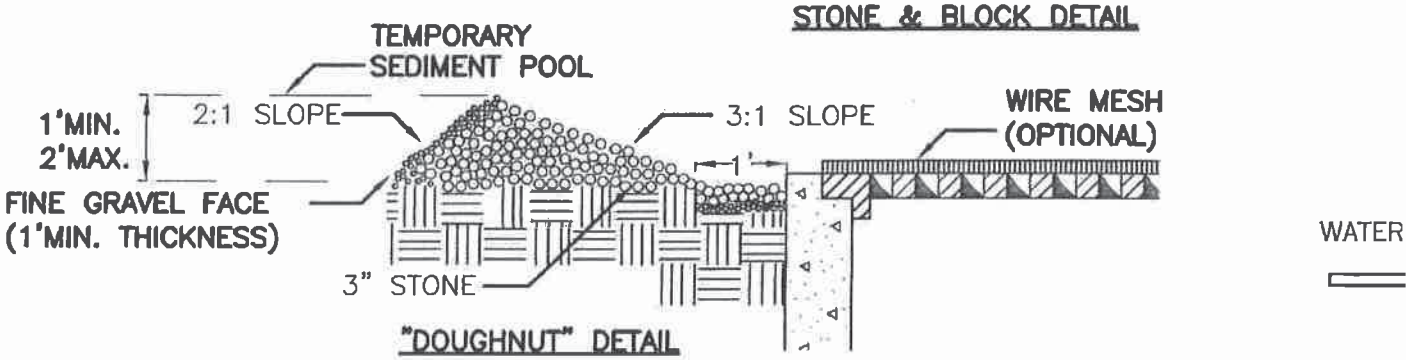
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL



"DOUGHNUT" DETAIL

CONSTRUCTION SPECIFICATIONS

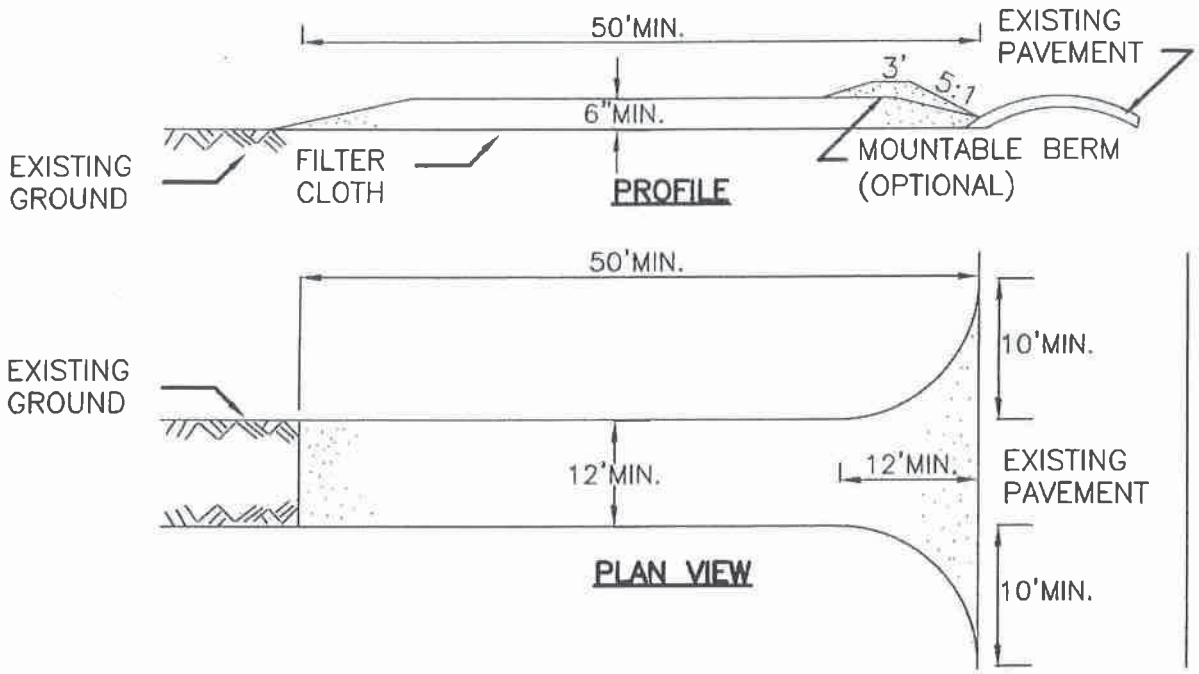
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 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

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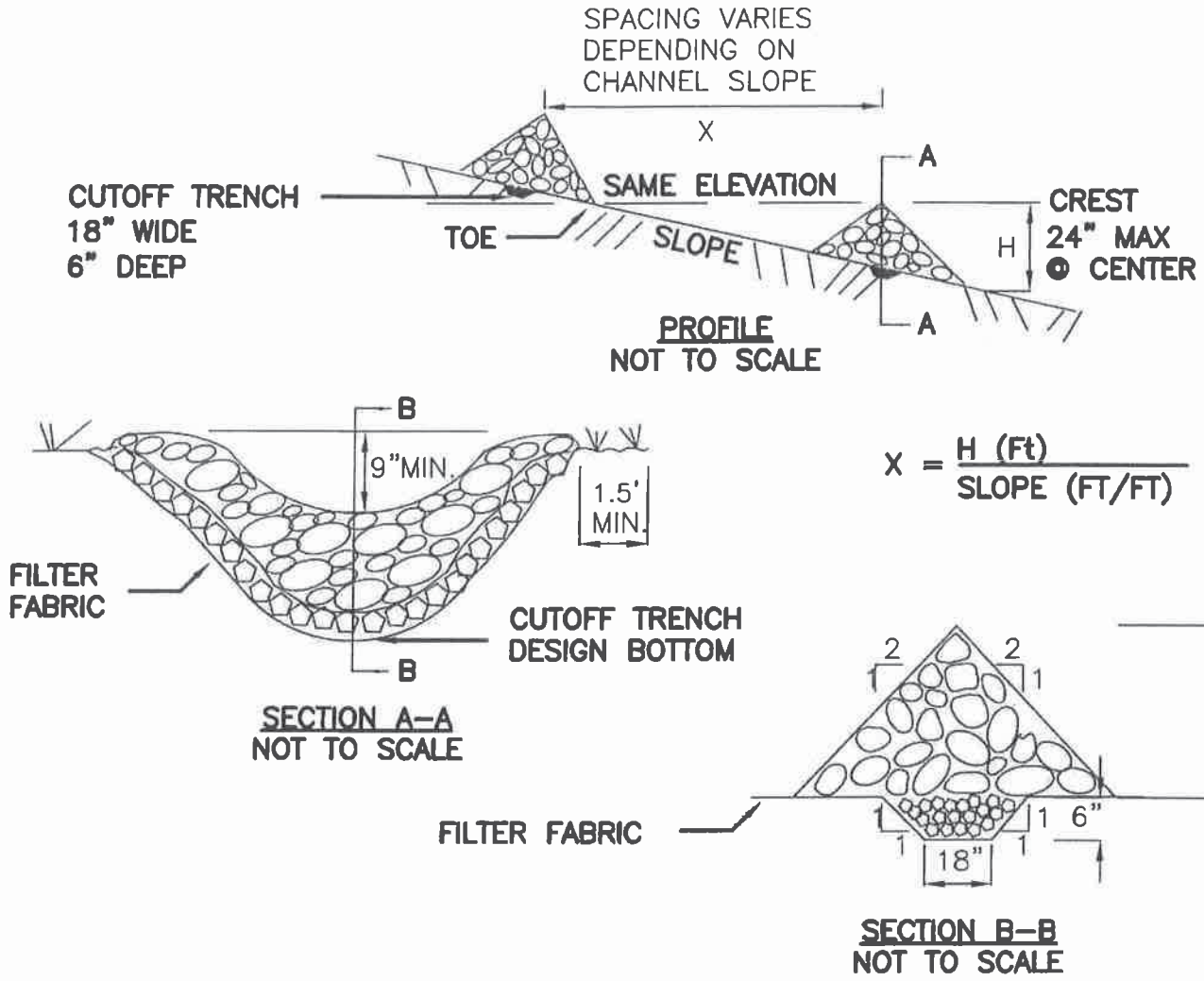
CONSTRUCTION SPECIFICATIONS

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

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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

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Appendix J

NYSDEC Stormwater Management Inspection Lists

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Comments:

Actions to be Taken:

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



ENGINEER'S REPORT
FOR
PROPOSED SITE REDEVELOPMENT
6000-6040 NORTH BAILEY AVE
TOWN OF AMHERST, NEW YORK
PROP # 1723

November 17, 2023
(Updated August 23, 2024)

GENERAL

This project is a redevelopment of a 17.426-acre parcel of land currently occupied with five (5) multitenant buildings (26,709 S.F., 35,678 S.F., 90,130 S.F., 59,591 S.F., and 34,632 S.F.) with associated loading docks, parking, utility, and drainage infrastructure. It is located at the Southwest corner of North Bailey Ave and Romney Road in the Town of Amherst. The property abuts general commercial properties along all property boundaries.

Existing Conditions:

The site is currently occupied by five (5) buildings and associated parking lot and loading docks. The site currently is sheet draining any runoff from pavement surface existing on-site drainage structures.

The site contains existing domestic and fire water services. The existing Domestic water service is tapped off the 8" Masin along North Bailey Ave and enters the site at the Southeast corner of property. The existing Fire water service is tapped of the 8" Main along North Bailey Road and enters the site near the Northeast corner of property.

Existing Sanitary Sewers connection for the property is located South of property that discharges into the existing Town of Amherst sewer district.

PROJECT OVERVIEW

The proposed project *(Figure 1)* consists of; clearing of land and relocation of existing utilities; Construct building addition of 10,069 S.F. between the Two Southern Buildings. Site improvements including improvements to the associated parking lot, drainage infrastructure and sites grading and utilities.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

PROPOSED FACILITIES

Storm Water

SWPPP Engineer's Report prepared by Carmina, Wood, Morris DPC dated November 2023

Water System

The existing water service to the site is to reuse for this proposed project. The existing service is tapped off the existing 8" water main along North Bailey Ave R.O.W. The proposed development will reuse the existing domestic and fire water services, which each have their own dedicated hot box enclosure with meter and backflow devices. The existing 8" Fire service enters the site near the NE corner of property and the existing 3" domestic service enters the site near the SE corner of property.

Disinfection of the water services following installation will be continuous feed, according to AWWA C-651, latest revision.

Summary: *(Refer to Figure 2)*

Proposed Building Increased:	10,069 S.F.
Operating Demand Increase:	1.86 gpm
Peak Demand Increase:	3.36 gpm
Water Main:	8" main along North Bailey Ave
Static Pressure:	96
Head Loss Friction:	0 psi
Loss through meter/RPZ:	13.0 psi per service
Elevation Loss:	0.9 psi
Bends Loss:	0 psi
Required Pressure after RPZ:	20 psi
Proposed Pressure after RPZ:	**82.1 psi**

Sanitary Sewer:

Sanitary services will reuse building connection which will discharge into the existing sanitary sewer lateral that discharges along sanitary main along Meyer Road. The proposed building additions will reuse the existing lateral sanitary connections.

Summary:

Proposed New Building S.F.:	10,069 S.F.
Existing Buildings S.F.:	246,740 S.F.
Proposed Flow:	0.1 * 10,069 = 1,007 GPD
Additional GPD =	1,007 GPD
Total Increased Sanitary Flow:	**1,007 GPD**

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

FIGURES:

1 *Site Location Plan & Engineering Plan*

2 *Sanitary & Water Calculations*

3 *SWPPP Stormwater Report*

4 *Water Quality Unit Detail*

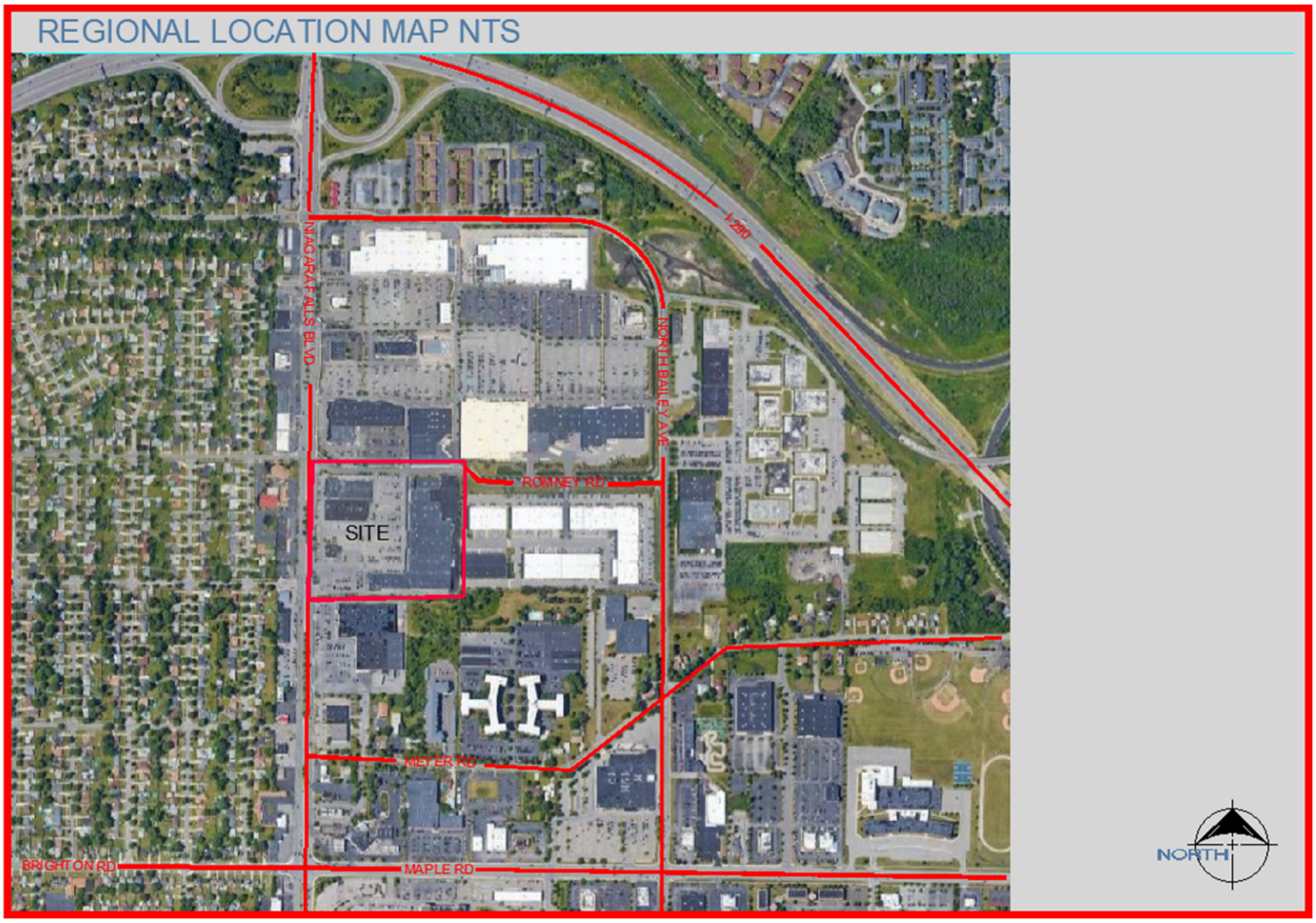
APPENDICES:

A *FEMA Flood Areas*

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

FIGURE 1

SITE LOCATION PLAN
ENGINEERING PLANS



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

FIGURE 2

SANITARY & WATER CALCULATIONS

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

BENDERSON DEVELOPMENT
570 DELAWARE AVENUE
BUFFALO, NEW YORK 14202
716.886.0211.P : : 716.886.1026.F

JOB NAME: Amherst Development
DESCRIPTION: SANITARY & WATER CALCULATIONS
PROPERTY # 1723 DATE: 8.23.24
CALCULATED BY: DMZ SHEET: 1 OF 2

SANITARY SEWER CALCULATIONS:

PROPOSED NEW BUILDING: **10,069 S.F.**

Required GPD = 0.1 GPD / S.F. *NYSDEC Design standard for WWTS

Proposed = 10,069 * 0.1 GOPD = 1,007 GPD

INCREASED SANITARY FLOW = **1,007 GPD**

PEAK SANITARY DEMAND

Total Demand = 1007 GPD x 1.1 = 1,108 GPD
Per Population = 30 Per Capita

Peak Factor: $(18+\sqrt{P}) / (4+\sqrt{P})$ P in Thousands

Peak Factor = 4

Peak Sanitary Demand = 1108 x 4.38 = 4,853 gpd
0.005 MGD

WATER CALCULATIONS:

Demand: = 1,007 GPD
GPM: = GPD / 9hr / 60min
ASSUMED 9HR SHIFT = 1,007 / 9 / 60
= **1.86 GPM**

PEAK FACTOR: = GPM X 1.8
= 1.86 X 1.8
Q = **3.36 GPM PEAK**

HEADLOSS FRICTION: = $\frac{(10.44) X (L) X (Q)^{1.85}}{(C)^{1.85} X (D)^{4.866}}$

Q = GPMin
L = LENGTH OF PIPE = $\frac{(10.44) X (50) X (3.36)^{1.85}}{(140)^{1.85} X (2)^{4.866}}$
C = DESIGN COEF OF PIPE
D = PIPE DIAMETER

= **0 PSI**

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BENDERSON DEVELOPMENT
570 DELAWARE AVENUE
BUFFALO, NEW YORK 14202
716.886.0211.P : : 716.886.1026.F

JOB NAME: Amherst Development
DESCRIPTION: SANITARY & WATER CALCULATIONS
PROPERTY # 1723 DATE: 8.23.24
CALCULATED BY: DMZ SHEET: 2 OF 2

ELEVATION LOSS: = (BUILDING INTAKE - HYDRANT HEIGHT) X 0.433
= (579.5 - 577.5) X 0.433
= **0.9 PSI**

LOSS THROUGH RPZ & METER:

RPZ = 12 PSI (STANDARD)
METER = 1 PSI (STANDARD)
= **13 PSI After Hotbox**

LOSS DUE TO BENDS:
RESISTANCE EQUIVALENT LENGTH METHOD)

TOTAL = **0 FT ADDITIONAL PIPE**

STATIC PRESSURE @ HYDRANT:
= **96 psi**

PRESSURE AFTER RPZ / METER / BENDS / ELEVATION / HEADLOSS:

= 96 - 13 PSI - 0.9 PSI
(HYD) (RPZ) (FRICTION)
= **82.1 psi**

REQUIRED RESIDUAL PRESSURE = 20 PSI

PROPOSED RESIDUAL PRESSURE = 82.1 PSI

THEREFORE PROPOSED > REQUIRED
82 PSI (GREATER) 20 PSI

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

FIGURE 3

SWPPP Report

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

CARMINAWOOD
DESIGN

ENGINEER'S REPORT

for

Amherst Development Park

6000-6040 North Bailey Ave
Town of Amherst, Erie County, New York

Prepared for

Benderson Development Company, LLC

570 Delaware Avenue
Buffalo, NY 14202

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

November 2023



Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Table of Contents

Written Engineer's Report

Section 1 - Location & Description

Section 2 - Stormwater Drainage System

Appendices

Appendix A - Location Maps – Erie County GIS

Appendix B - Web Soil Survey – Hydrologic Soils Groups

Appendix C - Storm Sewer Drainage Calculations

- Water Quality and Runoff Reduction Calculations
- Stormwater Runoff Summaries and Runoff Delineation Maps
- HydroCAD Analysis

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Section 1 – Location & Description

This project is a site redevelopment of the existing Amherst Development Park located on the south side of Ridge Lea Road and on the west side of North Bailey Ave in the Town of Amherst. The site is located north of Meyer Road and east of Niagara Falls Boulevard. The Boulevard Consumer Square is located north and west of the project site, Amherst Commerce Park is located east of the project site and Boulevard Towers Apartments are located south of the project site. The site is currently fully developed and occupied by existing commercial buildings that will remain. Proposed construction will include two building additions and parking lot/driveway expansions. Site construction will also include utility improvements and new stormwater management areas. The overall site is 17.14 of which 6.95 acres will be disturbed by construction activities. The project site is currently zoned R-D.

Section 2 – Stormwater Drainage System

The existing site is generally flat. An existing open/closed drainage system onsite drains north to an open swale along the north side of Romney Rd. Three existing 3'x5' arch stormwater conveyance pipes are also located onsite within a 30' wide Town of Amherst Drainage easement. These conveyance pipes flow from the south property line to north and discharge into the open swale along Romney Rd. The existing swale flows east along Romney Rd and north along North Bailey Ave and outlets to an existing stormwater management pond located adjacent to Interstate 290. Runoff from the pond is then conveyed north via open and closed drainage systems and discharges to Ellicott Creek and ultimately the Niagara River. All proposed stormwater runoff from the project site will continue to discharge to the existing stormwater system along Romney Road.

This project is subject to the Boulevard Central Special Stormwater Design Conditions adopted by the Town of Amherst. In addition to the requirements of the NYSDEC SPDES General Permit, the project must also provide the following criteria for Projected Growth Redevelopment Scenarios and Enhanced Phosphorus Removal:

- Provide 10% escalation of proposed peak flow when compared to existing conditions peak flows.
- Median curve number (CN) to compute existing conditions.
- Water Quality volume based on the 1-year, 24-hour storm according to Chapter 10 of the NYSDEC Stormwater Management Design Manual.

For purposes of the runoff analysis and the stormwater drainage system design, portions of the project site were classified as "Redevelopment" per NYSDEC Stormwater Management Design Manual Chapter 9 requirements. The nature of this construction project will be a "Redevelopment" with an increase in impervious area. The proposed stormwater management system was designed to attenuate proposed runoff to existing conditions prior to discharge.

The proposed stormwater drainage system will consist of a combination of overland sheet flow and HDPE pipe channel flow connected by a series of drainage inlets located throughout the project site. Proposed stormwater runoff will be collected and conveyed to an underground stormwater chamber detention area onsite and discharged via outlet control pipes to the existing stormwater system along Romney Road.

The bioretention areas will provide Runoff Reduction and Water Quality volume requirements for "New Development" areas. The filter area planting soil depth varies throughout the bioretention areas but maintains a minimum of at least 18 inches of soil. The 18 inches of soil is an acceptable deviation per the NYSDEC where existing grades prevent the full 2.5'-4' foot soil depth. A series of 6" underdrains below the planting soil will be located throughout the bioretention areas connected by overflow drainage inlets to convey runoff directly to the closed stormwater management system. Water quality treatment structures will be installed onsite to address water quality requirements for "Redevelopment" areas.

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: No existing natural features exist onsite.
2. Calculation of Water Quality Volume (WQv) for site. See "Storm Sewer Drainage Calculations".

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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 and WQv for "New Development" areas. See "Storm Sewer 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. Water quality treatment structures will be installed onsite to address water quality requirements for "Redevelopment" areas. See "Storm Sewer Drainage Calculations".
5. Design of volume and peak rate control practices where required. See "Storm Sewer 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:
The NYSDEC requires water quality treatment prior to discharge. This will be achieved by the application of bioretention areas and water quality treatment structures. The total WQv provided was 0.749 ac-ft and equal to the required WQv of 0.749 ac-ft. The required water quality volume was calculated based on the proposed 6.95 acres of proposed development area.

Runoff Reduction Volume:
The NYSDEC requires reduction of the total water quality volume by green infrastructure techniques and SMPs to replicate pre-development hydrology. Bioretention areas were incorporated into the site layout to provide the required RRv for contributing runoff areas in the WQv. The RRv provided was 0.094 ac-ft and greater than the required RRv min. of 0.056 ac-ft. The required runoff reduction volume was calculated based on 3.03 acres of proposed "new development" area that includes 1.97 acres of "new impervious" area.

100% of the required WQv was not reduced due to the followings site specific limitations: Drainage areas with impermeable soils, Type D. In addition, below is a summary of how each green infrastructure technique was evaluated and determined to be feasible or infeasible:

1. Conservation of natural areas: no natural existing features present onsite.
2. Sheetflow to riparian buffers or filter strips: no riparian buffers possible on the site; filter strips not feasible given the limited area for development.
3. Vegetated Open Swales: swales were not feasible given the limited area for development.
4. Tree Plantings: new trees were planted throughout the site.
5. Disconnection of Roof Top Runoff: disconnection not feasible for these types of projects.
6. Stream Daylighting: is not feasible given the limited area for development.
7. Rain Garden: bioretention areas installed throughout site.
8. Green Roof: the proposed use of the building makes this an unfeasible practice.
9. Stormwater Planter: this method is not recommended for these types of projects.
10. Rain Barrels & Cisterns: collected water would not be used for irrigation.
11. Porous Pavement: porous pavement is not recommended for areas with impermeable soils (Type D) and areas with sediment laden runoff (salting in winter months).

Channel Protection:
The NYSDEC requires that 24-Hour extended detention be provided for the proposed 1-year storm event. A volume of 10,004 cf will be accommodated in the stormwater detention areas onsite.

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. Storage of this storm will be provided within the onsite stormwater detention areas. At this storm event the stormwater drainage system will allow discharge of 13.54 cfs, which is below the existing peak 10-year runoff of 20.51 cfs.

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

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. Storage of this storm will be provided within the onsite stormwater detention areas. At this storm event the stormwater drainage system will allow discharge of 25.60 cfs, which is below the existing peak 100-year runoff of 41.10 cfs.

Town of Amherst:
The Town 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 *under the 10% escalation scenario*. Storage of this storm will be provided within the onsite stormwater detention areas. At the 25-year storm event the stormwater drainage system will allow discharge of 19.34 cfs, which is below the existing peak 10-year runoff of 20.51 cfs.

Design Criteria:
Storm pipes: 10-year storm
RUNOFF ANALYSIS OF PROPOSED DEVELOPMENT AREA:

STORM EVENT	EXISTING RUNOFF (cfs)	PROPOSED RUNOFF (cfs)	10% ESCALATION (cfs)
1 YEAR	8.12	7.30	8.03
2 YEAR	11.64	9.40	10.34
5 YEAR	16.25	11.90	13.09
10 YEAR	20.51	13.54	14.89
25 YEAR	27.36	18.03	19.83
50 YEAR	33.68	21.83	24.01
100 YEAR	41.10	25.60	28.16

WATER QUALITY SUMMARY:
WQv REQUIRED = 0.749 AC-FT
RRv MIN. REQUIRED = 0.056 AC-FT
RRv PROVIDED WITHIN BIORETENTION AREAS = 0.094 AC-FT
WQv PROVIDED WITHIN BIORETENTION AREAS = 0.234 AC-FT
WQv PROVIDED BY TREATMENT STRUCTURES = 0.515 AC-FT
TOTAL WQv PROVIDED = 0.749 AC-FT

BIORETENTION FILTER AREA SUMMARY:
FILTER AREA = 9,266 SF

See attached “Storm Sewer Drainage Calculations” for additional information.

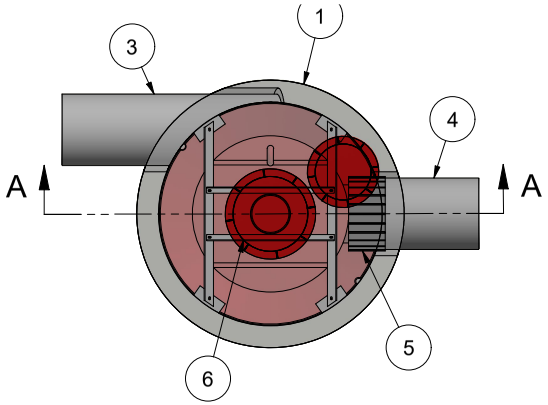
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

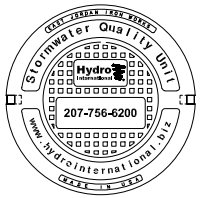
FIGURE 4

Water Quality Unit Detail

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

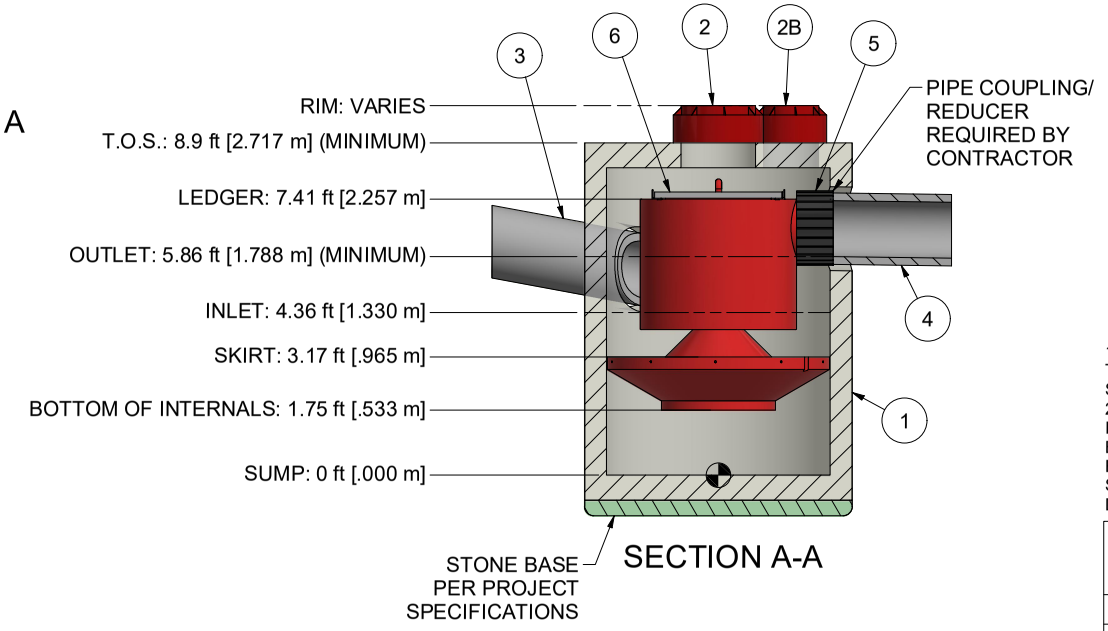
Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)





HYDRO FRAME AND COVER (INLCUDED)

GRADE RINGS BY OTHERS AS REQUIRED



SECTION A-A

NOTE: NOT FOR CONSTRUCTION. CONTACT HYDRO FOR SITE SPECIFIC DETAIL

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING DOWNSTREAM DEFENDER MANHOLE.

EQUIPMENT PERFORMANCE

The stormwater treatment unit shall adhere to the hydraulic parameters given in the chart below and provide the removal efficiencies and storage capacities as follows:

1. The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
2. Peak Hydraulic Capacity: 8.0 cfs (227 l/s)
3. Sediment Storage Capacity: 2.10 cu. yd. (1.59 cu. m)
4. Continuous Oil Storage Capacity: 216 gal. (818 liters)
5. Sediment shall be stored in a zone that is isolated from the main flow path and protected from reintrainment by a benching skirt.
6. For more product information including regulatory acceptances, please visit https://hydro-int.com/en/products/downstream-defender

PARTS LIST

ITEM	QTY	SIZE (in)	SIZE (mm)	DESCRIPTION
1	1	72	1800	PRECAST MANHOLE (BY HYDRO VIA PRECASTER)
2	3	24	600	FRAME AND COVER
2B	1	18	450	FRAME AND COVER
3	1	18 (MAX)	450 (MAX)	MAX INLET PIPE (BY OTHERS)
4	1	18 (MAX)	450 (MAX)	MAX OUTLET PIPE (BY OTHERS)
5	1			PIPE COUPLING (BY OTHERS)
6	1			INTERNAL COMPONENTS (PRE-INTALLED)

PROJECTION

IF IN DOUBT ASK

DATE: 10/8/2019	SCALE: 1 / 50
DRAWN BY: ER	CHECKED BY: MRJ
APPROVED BY	

Title: 6ft-DIAMETER

GENERAL ARRANGEMENT

Hydro International
A CRH COMPANY
hydro-int.com
HYDRO INTERNATIONAL

WEIGHT: N/A	MATERIAL:
STOCK NUMBER: NEXT ASSY	
DRAWING NO.: DD GA-10	
SHEET SIZE: B	SHEET: 1 OF 1
Rev: A	

APPENDIX A

FEMA Flood Areas

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Attachment: SP-1988-11P_application updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL L

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BF Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH,
- Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

Area of Undetermined Flood Hazard Zone D

OTHER AREAS

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- 20.2 / 17.5 Cross Sections with 1% Annual Chance 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 approximate point selected by the user and does not represent 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 map was exported on 11/17/2023 at 9:20 AM and does not reflect changes or amendments subsequent to this date and 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 map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Basemap Imagery Source: USGS National Map 2023

PROPOSED SITE MODIFICATIONS

Amherst Development Park
6000 - 6040 N.Bailey Ave, Amherst, NY
BDC Property # 1723
SITE DEVELOPMENT DRAWINGS

INDEX OF DRAWINGS

DWG. #	DRAWING NAME	REVISION	DATE
C1.0	COVER SHEET	6	08.30.2024
C2.0	EXISTING SURVEY		
C3.00	DEMOLITION & EROSION CONTROL PLAN WEST	6	08.30.2024
C3.01	DEMOLITION & EROSION CONTROL PLAN EAST	6	08.30.2024
C3.10	DEMOLITION & EROSION CONTROL PLAN DETAILS	6	08.30.2024
C4.0	OVERALL SITE PLAN	5	08.12.2024
C4.01	FIRE TRUCK TURNING PLAN		
C4.10	DETAILED SITE PLAN WEST	5	08.12.2024
C4.11	DETAILED SITE PLAN EAST	4	07.31.2024
C4.20	CONSTRUCTION DETAILS	1	12.13.2023
C5.00	GRADING PLAN WEST	5	08.12.2024
C5.01	GRADING PLAN EAST	4	07.31.2024
C5.10	DRAINAGE PLAN WEST	6	08.30.2024
C5.11	DRAINAGE PLAN EAST	6	08.30.2024
C5.20	DRAINAGE DETAILS	1	12.13.2023
C5.21	DRAINAGE DETAILS		
C6.00	UTILITY PLAN WEST	5	08.12.2024
C6.01	UTILITY PLAN EAST	4	07.31.2024
C6.10	UTILITY DETAILS	1	12.13.2023
C7.0 - C7.4	LANDSCAPING PLANS	1	08.21.2024
C8.0	SITE LIGHTING PLAN	5	08.12.2024
C8.10	LIGHTING DETAILS		

OWNER/DEVELOPER:

NAME: BENDERSON DEVELOPMENT COMPANY, LLC
ADDRESS: 570 DELAWARE AVENUE, BUFFALO, NY 14202
CONTACT: DAVID ZUPPELLI
PHONE: 716 - 878 - 9683

BENDERSON DEVELOPMENT COMPANY, LLC
570 Delaware Ave.
Buffalo, New York 14202

SURVEYOR

NAME: KHEOPS ARCHITECTURE, ENGINEERING & SURVEY, DCP
ADDRESS: 300 PEARL STREET, BUFFALO, NY 14202
CONTACT: -
PHONE: 716-849-8739

UTILITIES:

NATURAL GAS
NAME/TITLE: WILLIAM SCHNEIDER
COMPANY/DEPT: NATURAL FUEL GAS
ADDRESS: -
PHONE: 716 - 696 - 6460

TELEPHONE COMPANY
NAME/TITLE: JOHN HECKMAN
COMPANY/DEPT: VERIZON
ADDRESS: -
PHONE: 716 - 840 - 8603

ELECTRIC
NAME/TITLE: -
COMPANY/DEPT: NATIONAL GRID
ADDRESS: -
PHONE: -

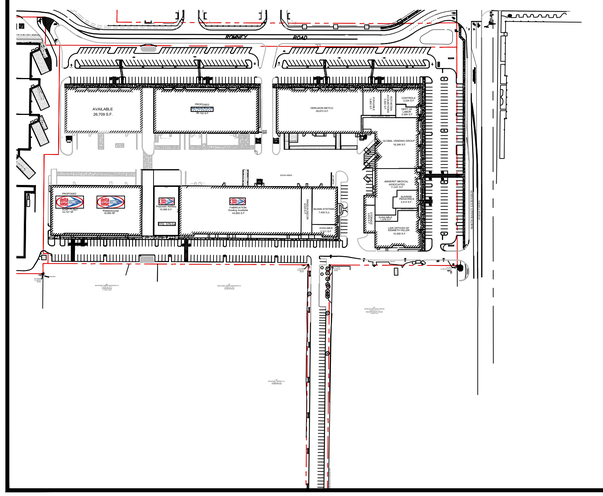
DIG SAFELY NEW YORK
PHONE: 1 - 800 - 962 - 7962 OR (811)

AGENCIES:

ENGINEERING DEPARTMENT
NAME/TITLE: JEFF BURROUGHS
COMPANY/DEPT: TOWN OF AMHERST, NY - ENGINEERING DPT
ADDRESS: 1100 NORTH FOREST RD, WILLIAMSVILLE, NY
PHONE: 716 - 631 - 7154 EX 7418

BUILDING & PLUMBING DEPARTMENT
NAME/TITLE: -
COMPANY/DEPT: TOWN OF AMHERST, NY - BUILDING DPT
ADDRESS: 5583 MAIN STREET, WILLIAMSVILLE, NY 14221
PHONE: 716 - 631 - 7080

SITE LOCATION MAP 1:200



REGIONAL LOCATION MAP NTS



OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	12.13.2023	DZ	POND UPDATES
2	05.08.2024	DZ	Site Plan Update
3	06.12.2024	DZ	Site Updates
4	07.31.2024	DZ	Site Updates
5	08.12.2024	DZ	Site Updates
6	08.30.2024	DZ	Town Comments

SPECIAL INFORMATION:

ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ANY AND ALL STRUCTURES.

NOTICE

UNAUTHORIZED ALTERATIONS OF THIS DOCUMENT ARE IN VIOLATION OF SECTION #7209 OF THE STATE EDUCATION LAW.

NORTH

811 Know what's below. Call before you dig.

PROPERTY NUMBER: #1723
AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

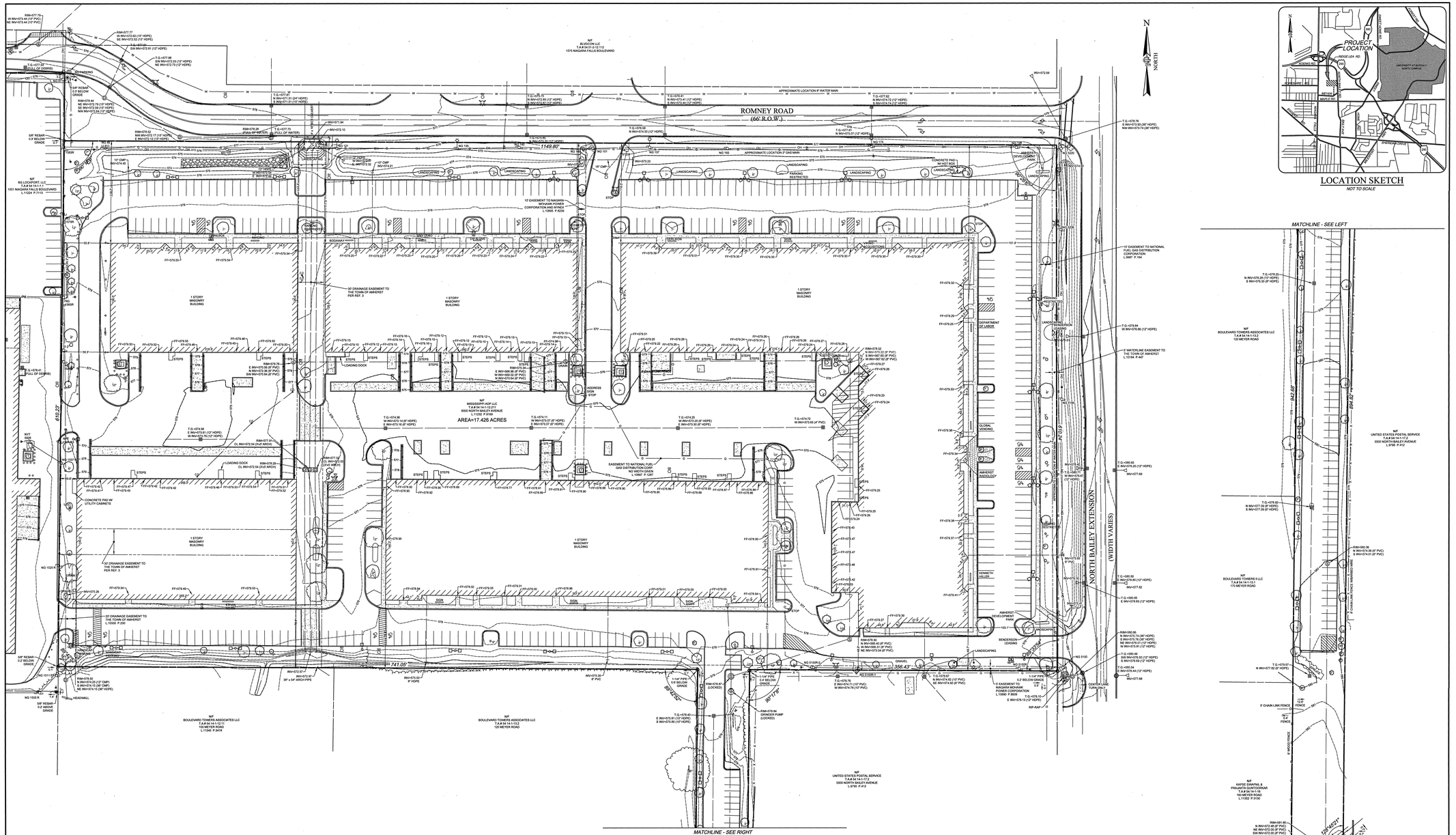
SEAL



TITLE: COVER SHEET

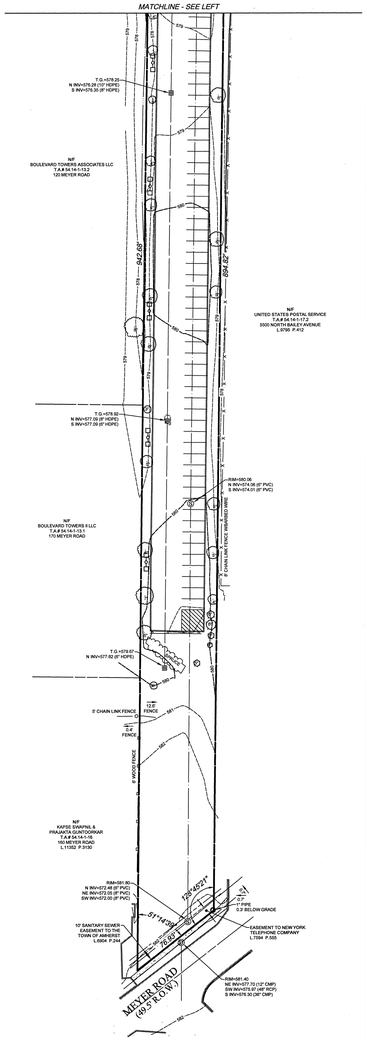
SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.16.2023
DRAWING NO. C1.0

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N.Bailey Ave)



LOCATION SKETCH

NOT TO SCALE



LINE LEGEND

- SECTION/PARCEL BOUNDARY
- MIN. BUILDING SETBACK
- CENTER LINE
- EXIST. EASEMENT LINE
- EXIST. RIGHT-OF-WAY LINE
- EXIST. EDGE OF PAVEMENT
- EXISTING WATER MAIN, VALVE, & HYDRANT.
- EXISTING SANITARY SEWER, & MANHOLE.
- EXISTING DRAINAGE SEWER, FIELD INLET, INLET MANHOLE, MANHOLE, & END SECTION.
- EXISTING OVERHEAD UTILITIES
- EXISTING TELEPHONE
- EXISTING UNDERGROUND UTILITIES
- EXISTING GAS
- EXISTING ELECTRIC
- EXISTING GUARD RAIL
- TREE,HEDGE,EDGE OF WOODS
- EXISTING SWALE
- BARBED WIRE,STOCKADE,CHAIN LINKED FENCE
- EXISTING CONTOUR
- x 420.4 EXISTING SPOT ELEVATION @ X
- CONCRETE PAD/ CONCRETE SIDEWALK

SYMBOL LEGEND

DRAINAGE MANHOLE		ELECTRIC MANHOLE	
INLET DRAINAGE MANHOLE		ELECTRIC METER	
CATCH BASIN		TELEPHONE MANHOLE	
END SECTION		TELEPHONE PEDESTAL	
END OF PIPE		PHONE BOOTH	
MANHOLE		PEDESTRIAN POLE	
SANITARY MANHOLE		TRAFFIC CONTROL CABINET	
CLEAN OUT		LAMP POST	
GAS VALVE		LIGHT POLE	
GAS SERVICE		UTILITY POLE WITH LIGHT	
GAS METER		FLAG POLE	
WATER VALVE		MAILBOX	
WATER SERVICE		BOLLARD	
HYDRANT		POST	
WATER METER		SIGN	
CABLE TV PEDESTAL		SIGN	
SIGNAL POLE		SIGN	
UTILITY POLE		TURNING ARROW	
GUY WIRE		HANDICAP	
PULL BOX		STOP BAR	
ELECTRIC PULL BOX		TREE DECIDUOUS	
TELEPHONE PULL BOX		TREE CONIFEROUS	
TRAFFIC PULL BOX		BUSH	
TRANSFORMER			

EASEMENT NOTES
T.A.# 54.14-1-12.211

1. EASEMENT MADE BY BOULEVARD POWER CO. TO NEW YORK TELEPHONE COMPANY RECORDED OCTOBER 30, 1968 IN LIBER 7527 OF DEEDS, PAGE 543. (NOT PLOTTABLE)
2. EASEMENT MADE BY MARIET DEVELOPMENT CORPORATION OF NEW YORK TO NIAGARA MOHAWK POWER CORPORATION RECORDED SEPTEMBER 11, 1967 IN LIBER 7302 OF DEEDS, PAGE 474. (DOES NOT AFFECT PREMISES)
3. RIGHT OF WAY MADE BY MARIET DEVELOPMENT CORPORATION OF NEW YORK TO IROQUOIS GAS CORPORATION RECORDED SEPTEMBER 29, 1967 IN LIBER 7309 OF DEEDS, PAGE 98. (NOT PLOTTABLE)
4. EASEMENT FROM NIAGARA BOULEVARD TOWERS, INC TO NIAGARA MOHAWK POWER CORPORATION AND NEW YORK TELEPHONE CO. RECORDED ON AUGUST 29, 1969 IN LIBER 7506 OF DEEDS, PAGE 503. (NOT PLOTTABLE)
5. EASEMENT RESERVED BY BOULEVARD TOWERS CO. CONTAINED IN DEED RECORDED ON JULY 29, 1969 AT LIBER 9695 OF DEEDS, PAGE 528.

SURVEY NOTES

1. TOPOGRAPHY SHOWN FROM A FIELD SURVEY BY COSTICH ENGINEERING ON 5/4/2021 HORIZONTAL AND VERTICAL DATA OBTAINED THROUGH NYSDOT CORS NETWORK REFERENCED TO THE FOLLOWING MONUMENT

HAMBURG CORS STATION
-LATITUDE: 42-43-37.92029 (N) } NAD 83 (CORS)
-LONGITUDE: 078-54-54.28856 (W)
-ELLIP HEIGHT: 212.508 METERS } NAVD 88 (CORS)

REFERENCES

1. THE DEEDS AS SHOWN ON FILE AT THE ERIE COUNTY CLERKS OFFICE.
2. ALTA/NSPS LAND TITLE SURVEY PREPARED FOR DDR - PROJECT SABRE PROJECT, PREPARED BY BOCK & CLARK, HAVING PROJECT NO. 20150429-003, DATED 1/26/2015.
3. ALTA/NSPS LAND TITLE SURVEY 6000-6040 NORTH BAILEY AVENUE, PREPARED BY TVGA CONSULTANTS, HAVING JOB NO. 2006.0095.00, DATED 6/12/2006.

UTILITY INFORMATION

UTILITY INFORMATION PER UFPO DESIGN TICKET # 04261-000-825-00 DATED APRIL 29, 2021

1. CHARTER COMMUNICATIONS BUFFALO	317-575-7800 X2	NO CONFLICT
2. ERIE COUNTY WATER AUTHORITY	716-665-8207	UTILITIES PLOTTED
3. LIGHTOWER FIBER TECHNOLOGIES	888-632-0931 X2	NO RESPONSE
4. NATIONAL FUEL GAS - TONAWANDA	716-857-7431	UTILITIES PLOTTED
5. NATIONAL GRID - WEST - ELECTRIC	315-428-6319	NO CONFLICT
6. SUNOCO PIPELINE LP	713-989-7079	NO RESPONSE
7. TOWN OF AMHERST	716-631-7413	UTILITIES PLOTTED
8. VERIZON / BUFFALO	315-937-2515	UTILITIES PLOTTED

SITE DATA

T.A.# 54.14-1-12.211

1. EXISTING ZONING: RD - RESEARCH AND DEVELOPMENT DISTRICT
2. BULK REQUIREMENTS:

	REQUIRED
MIN. LOT AREA (SF)	1 ACRE
MAX LOT COVERAGE	NONE REQUIRED
MIN. LOT WIDTH (FT)	35
MAX. BUILDING HEIGHT (FT)	65 FEET
MIN. FRONT YARD SETBACK (FT)	20 FEET FOR BUILDINGS UP TO 35 FEET IN HEIGHT; 30 FEET FOR BUILDINGS GREATER THAN 35 FEET IN HEIGHT
MIN. SIDE YARD SETBACK (FT)	0 TO 15 FEET FOR BUILDINGS UP TO 30 FEET IN HEIGHT; 25 FEET FOR BUILDINGS GREATER THAN 30 FEET IN HEIGHT; PLUS 3 FEET FOR EACH 1 FOOT OF HEIGHT OVER 35 FEET
MIN. REAR YARD SETBACK (FT)	15 FEET FOR BUILDINGS UP TO 30 FEET IN HEIGHT; 25 FEET FOR BUILDINGS GREATER THAN 30 FEET IN HEIGHT; PLUS 3 FEET FOR EACH 1 FOOT OF HEIGHT OVER 35 FEET

CERTIFICATION

WE, COSTICH ENGINEERING, D.P.C., HEREBY CERTIFY TO:

THIS MAP WAS PREPARED FROM NOTES OF AN INSTRUMENT SURVEY COMPLETED ON MAY 12, 2021 AND FROM THE REFERENCE(S) LISTED HEREON. NO SEARCH OF RECORDS, OTHER THAN THOSE REFERENCED, WAS MADE FOR EASEMENTS OR ENCUMBRANCES AFFECTING THIS PARCEL.

By: Daniel T. Hicks, N.Y.S. L.S., No. 050449 Date: 6-7-2021

Dig Safely. New York Call811 before you dig

EXISTING UTILITIES (LOCATION, SIZES AND INVERTS) SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF, OR CLOSELY PARALLEL TO, OR UNDER, THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS OR DAMAGES OCCURRING AS A RESULT OF INCORRECTLY LOCATED UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY UNDERGROUND UTILITY LOCATION SERVICE AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NO.	DATE	REVISION	BY	CHKD.	APVLS.

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COSTICH ENGINEERING, D.P.C.

IT IS A VIOLATION OF LAWFOR ANY PERSON, UNLESS THEY ARE UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT OR LANDSCAPE ARCHITECT, TO ALTER AN ITEM ON THIS DOCUMENT. IN ANY WAY. ANY LICENSED WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATION, TO THE DOCUMENT.

STATE OF NEW YORK · DANIEL T. HICKS · 050449 · LICENSED LAND SURVEYOR

PROJECT ENGINEER	M.O.R.
DRAWN BY	G.M.S.
BOUNDARY	G.M.S.
TOPOGRAPHIC	G.L.K.
DATE	6/1/2021
SCALE	1"=40'

COSTICH ENGINEERING

- CIVIL ENGINEERING
- LAND SURVEYING
- LANDSCAPE ARCHITECTURE

217 LAKE AVENUE
ROCHESTER, NY 14608
(585) 458-3020

TITLE OF PROJECT: 1723/5256 AMHERST DEVELOPMENT

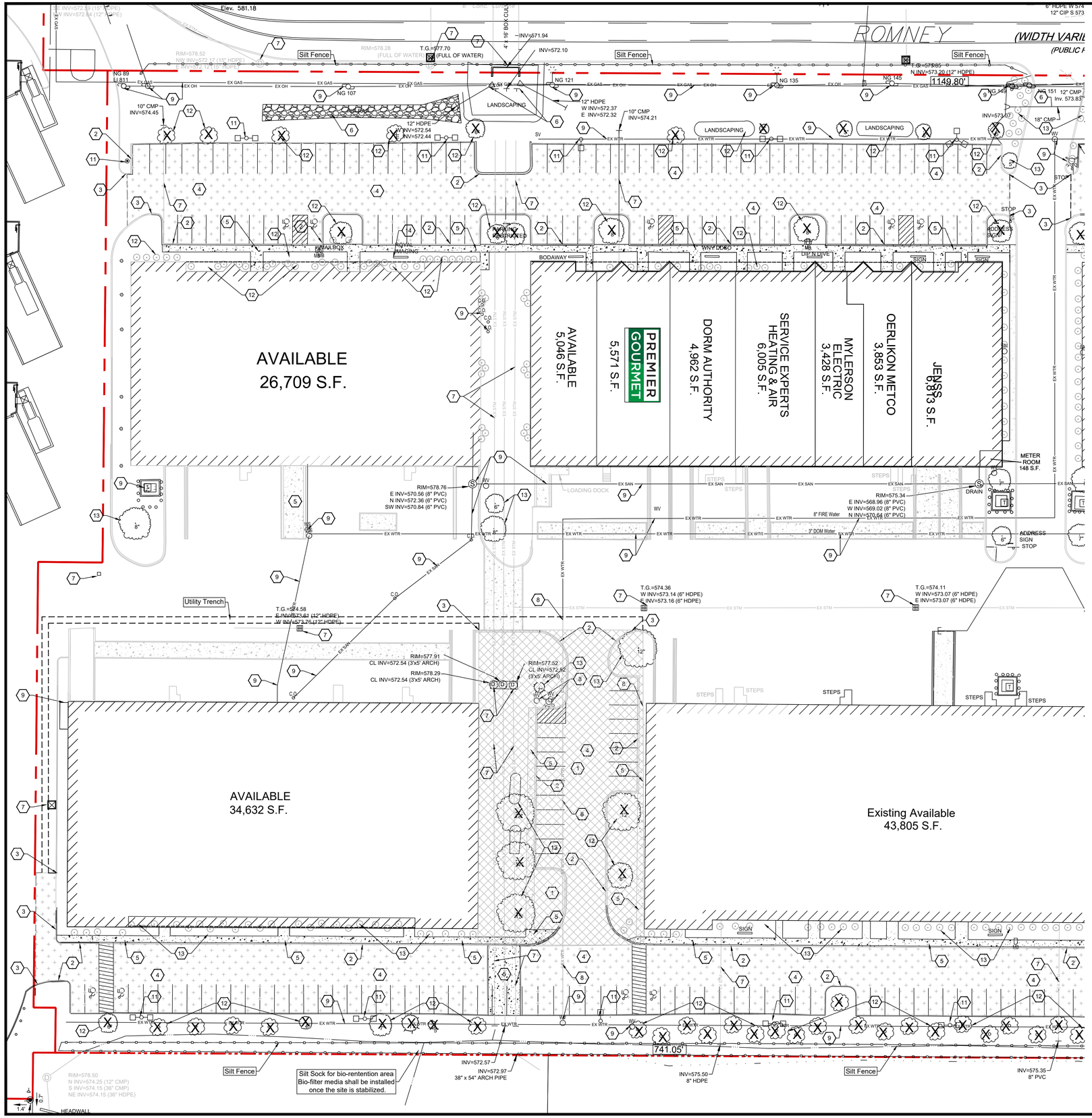
TITLE OF DRAWING: EXISTING FEATURES

LOCATION OF PROJECT: TAX PARCEL NO. 54.14-1-12.211
TOWN LOT 81, TOWNSHIP 13, RANGE 7,
HOLLAND LAND COMPANY'S SURVEY,
TOWN OF AMHERST, COUNTY OF ERIE, STATE OF NEW YORK

CLIENT: BENDERSON DEVELOPMENT CO., INC.
570 DELAWARE AVENUE
BUFFALO, NEW YORK 14202

DWG # 5084
VA110
SHEET 1 OF 1

Attachment: SP-1988-11P drawings updated 090924, 091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
10. SIDEWALK DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN .
11. CONCRETE SIDEWALK SEALERS: (REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES.)
    11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS - SILENCURE WITHIN 2HRS AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED.
    11.2. EXPOSED AGGREGATE/STAMPED CONCRETE SIDEWALKS SHALL HAVE ONE (x1) COAT CHEMMASTERS - SILENCURE AS SOON AS CONCRETE HAS DRIED AFTER PRESSURE-WASHING THE RELEASE AGENT OFF. APRX 30 DAYS AFTER THIS (IF WEATHER PERMITS) APPLY ONE (x1) COAT OF CHEMMASTERS - POLYSEAL EZ.
12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

DEMOLITION LEGEND:

- Property Line
- Existing Electric
- Existing Gas
- Existing Water
- Existing Overhead Utility
- Existing Sanitary
- Existing Storm
- Existing Telecoms
- Saw Cut Line
- Silt Fence/Sock
- Inlet Protection
- Tree Removal
- Existing area to be removed.
- Existing Asphalt Pavement to be Removed. Sub-base to Remain.

DEMOLITION NOTES: (#)

1. Existing Area to be Cleared.
2. Existing Curb to be removed.
3. Limits of Curb Removal.
4. Existing Asphalt Pavement to be removed.
5. Existing Concrete Sidewalk/ Pavement/ Ramps to be removed.
6. Existing Storm Drainage/CB to be removed.
7. Existing Storm Drainage/CB to remain and be protected during Construction.
8. Existing Utility Structure to be removed.
9. Existing Utility Structure to remain and be protected during Construction.
10. Existing Pylon Sign to remain and be protected during Construction.
11. Existing Light Pole Base to be Relocated
12. Existing Landscaping to be Removed
13. Existing Landscaping to remain and be protected during construction.
14. Existing Bollard/Signage to be removed.

Project Disturbance
Sub-Surface Disturbance: 3.92 Acres
Surface Disturbance: 3.03 Acres
Total Disturbance: 6.95 Acres.

OFFICIAL TOWN USE ONLY

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5	08.12.2024	DZ	Site Updates
6	08.30.2024	DZ	Town Comments

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JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
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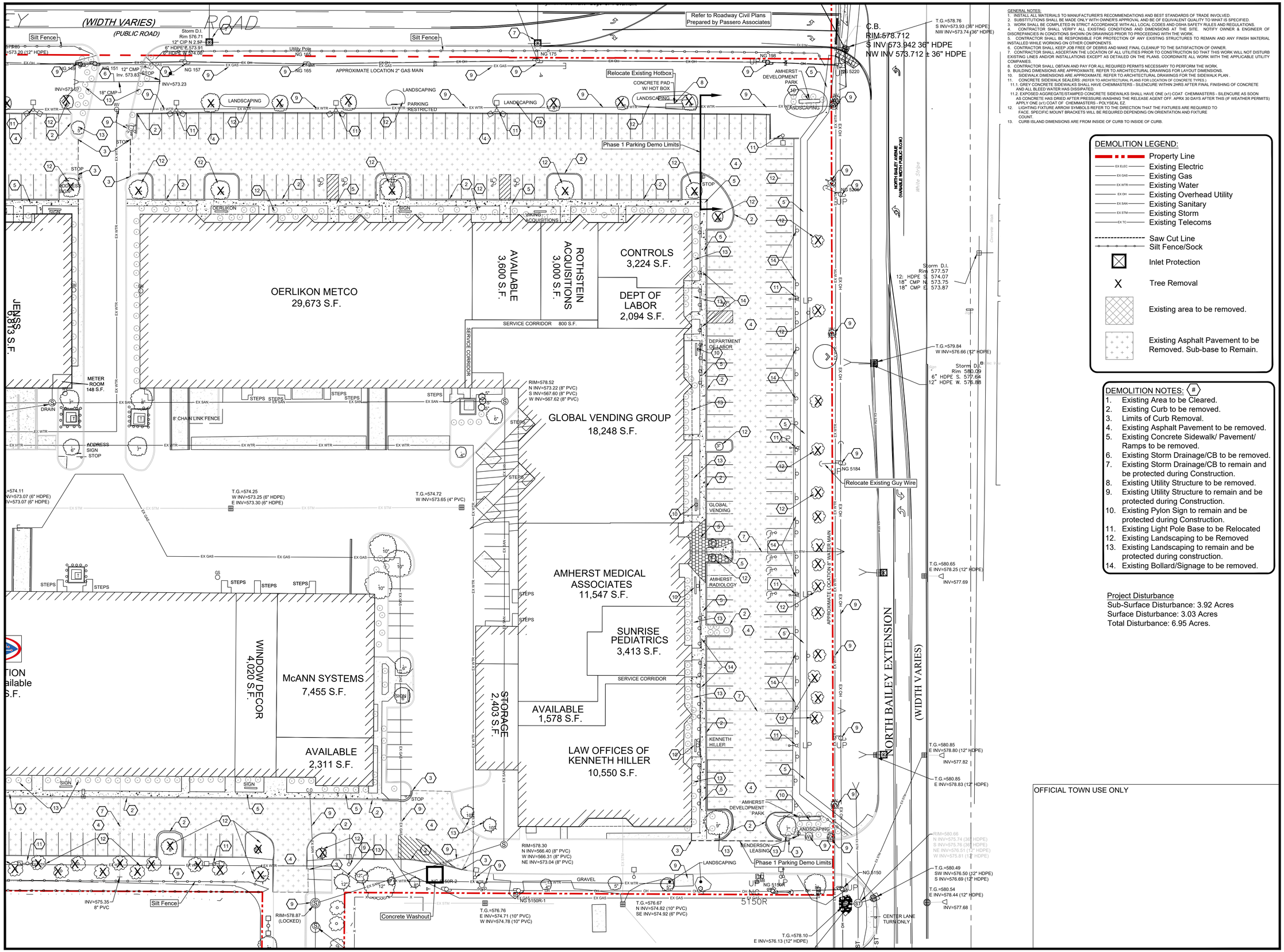
SEAL

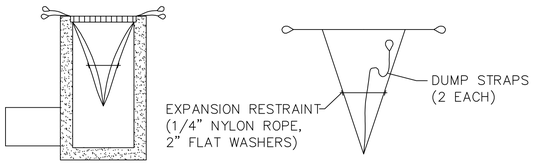
REGISTERED ARCHITECT JAMES ALLEN RUMSEY STATE OF NEW YORK

TITLE:
Demolition and Erosion Control Plan (West)

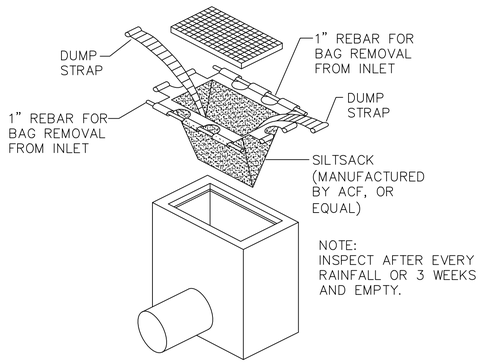
SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO. C3.00

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)


(WIDTH VARIES)
(PUBLIC ROAD)
Refer to Roadway Civil Plans Prepared by Passero Associates
Silt Fence
Storm D.I. Rim 576.71 12" CIP N 2.57 6" HDPE E 573.91 6" HDPE W 574.06
Utility Pole NG 165
APPROXIMATE LOCATION 2" GAS MAIN
Relocate Existing Hotbox
CONCRETE PAD W/ HOT BOX
AMHERST DEVELOPMENT PARK
LANDSCAPING
PARKING RESTRICTED
Phase 1 Parking Demo Limits
C.B. RIM=578.712 S INV 573.942 36" HDPE NW INV 573.712 ± 36" HDPE
T.G.=578.76 S INV=573.93 (36" HDPE) NW INV=573.74 (36" HDPE)
NORTH BAILEY AVENUE (VARIABLE WIDTH PUBLIC ROW)
White Stripe
Concrete Wall
Storm D.I. Rim 577.57 12" HDPE S. 574.07 18" CMP N. 573.75 18" CMP E. 573.87
T.G.=579.84 W INV=576.66 (12" HDPE)
Storm D.I. Rim 580.09 6" HDPE S. 577.64 12" HDPE W. 576.88
Relocate Existing Guy Wire
NORTH BAILEY EXTENSION (WIDTH VARIES)
T.G.=580.65 E INV=578.25 (12" HDPE) INV=577.69
T.G.=580.85 E INV=578.80 (12" HDPE) INV=577.82
T.G.=580.85 E INV=578.83 (12" HDPE)
RIM=580.66 N INV=575.74 (36" HDPE) S INV=575.76 (36" HDPE) NE INV=576.51 (12" HDPE) W INV=575.81 (12" HDPE)
T.G.=580.49 SW INV=576.50 (12" HDPE) S INV=576.69 (12" HDPE)
T.G.=580.54 E INV=578.44 (12" HDPE) INV=577.68
CENTER LANE TURN ONLY
T.G.=578.10 E INV=576.13 (12" HDPE)
OERLIKON METCO 29,673 S.F.
AVAILABLE 3,600 S.F.
ROTHSTEIN ACQUISITIONS 3,000 S.F.
CONTROLS 3,224 S.F.
DEPT OF LABOR 2,094 S.F.
SERVICE CORRIDOR 800 S.F.
JENSS 6,813 S.F.
GLOBAL VENDING GROUP 18,248 S.F.
AMHERST MEDICAL ASSOCIATES 11,547 S.F.
SUNRISE PEDIATRICS 3,413 S.F.
AVAILABLE 1,578 S.F.
LAW OFFICES OF KENNETH HILLER 10,550 S.F.
McANN SYSTEMS 7,455 S.F.
WINDOW DECOR 4,020 S.F.
STORAGE 2,403 S.F.
AVAILABLE 2,311 S.F.
METER ROOM 148 S.F.
8' CHAIN LINK FENCE
Concrete Washout
GRAVEL
LANDSCAPING
BENDERSON LEASING
RIM=578.52 N INV=573.22 (8" PVC) S INV=567.60 (8" PVC) W INV=567.62 (8" PVC)
RIM=578.30 N INV=566.40 (8" PVC) W INV=566.31 (8" PVC) NE INV=573.04 (8" PVC)
T.G.=574.11 INV=573.07 (6" HDPE) INV=573.07 (6" HDPE)
T.G.=574.25 W INV=573.25 (6" HDPE) E INV=573.30 (6" HDPE)
T.G.=574.72 W INV=573.65 (4" PVC)
T.G.=576.76 E INV=574.71 (10" PVC) W INV=574.78 (10" PVC)
T.G.=576.67 N INV=574.82 (10" PVC) SE INV=574.92 (6" PVC)
INV=575.35 8" PVC
RIM=578.87 (LOCKED)
NG 5220
NG 5184
NG 5150R
NG 5150R-1
NG 5150R-2
NG 5150
NG 5150R
NG 5150R
NG 5150R

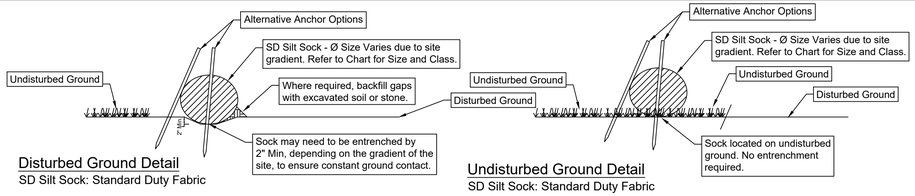


INSTALLATION DETAIL BAG DETAIL



SILT SACK DETAIL

N.T.S.

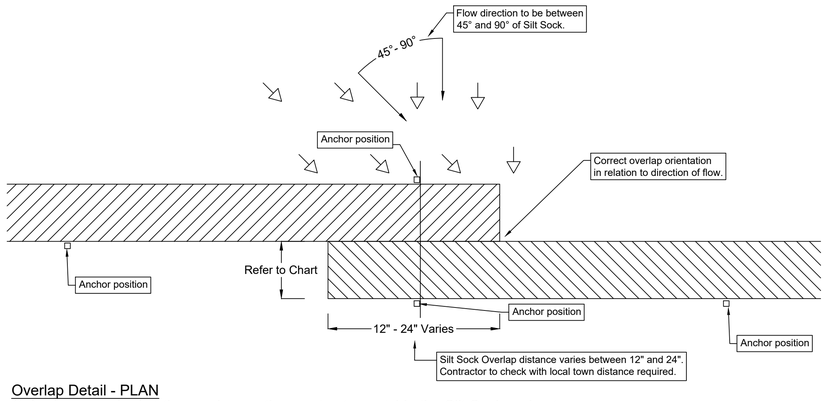


Disturbed Ground Detail

SD Silt Sock: Standard Duty Fabric

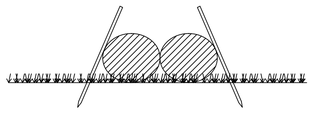
Undisturbed Ground Detail

SD Silt Sock: Standard Duty Fabric



Overlap Detail - PLAN

1) Anchors required at the overlap section are to stay outside the Silt Sock and not pierce through the material. See alternative anchor positons in details above.

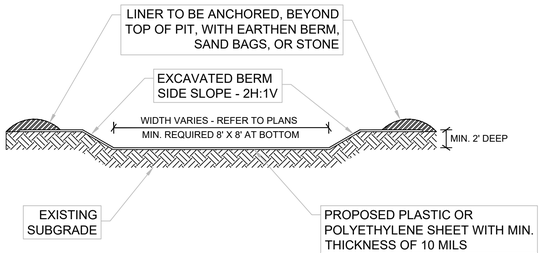


Anchor at Overlaped Ends - SECTION

Size & Class Chart			
	Diameter		
Gradient	8"	12"	18"
0 - 2%	30	55	75
2.1 - 5%	25	40	55
5.1 - 10%	15	30	40
10.1 - 33%	10	15	20
> 33%	5	10	15

SD SILT SOCK DETAIL

SD Silt Sock: Standard Duty Fabric



TYPICAL CONCRETE WASH OUT DETAIL

NOTES:
1. CONSTRUCT TO 2016 NYSDEC BLUE BOOK DESIGN CRITERIA

Notes:

1 - Do not use sock below the normal watermark or perpendicular to flow in river and where the maximum incline is greater than 50%.
2 - Contractors should be aware of federal, state and local laws, rules regulations or permit requirements for the use of Silt Socks on site.
3 - Sock should be positioned on the outline of the area to be protected, but must be installed between 45° to 90° from directions of flow.
4 - Sock may be required to be entrenched a minimum of 2" on disturbed ground to ensure constant ground contact.
5 - All gaps and ruts must be backfilled with soil or sock material.
6 - Sock overlap should be in the direction of the flow. Overlap amount will be between 12" and 24". Contractor to check with local town for requirements.
7 - If sediment collects to 1/2 the height of the sock, then a second sock may be stacked immediately up slope of the original instead of removing the sediment.
8 - Sock joint is where two sock sections meet on a level grade, overlap and adjoining ends, tightening the ends together, and anchoring through each end. Where two sections meet on un-level ground, j-hook higher elevated end, anchor, and begin new section just below. Back fill any gaps.
9 - Sock should be inspected and repaired as needed.
10 - If ruts begin under the sock they should be backfilled with soil and compacted so that the ground and sock have continuous contact.
11 - If sock rolls out of place, the sock should be repositioned and secured with additional anchors.
12 - Tears in the Sock fabric may be repaired by wrapping a new piece of fabric over the sock and securing, or by place a second sock immediately up slope with the required overlap beyond deformation.
13 - A section of sock should be replaced whenever it has weakened to such an extent that the efficiency is reduced or diminished. Weakening can occur because the natural mesh fabric breaks down over time of from being moved/dragged on site.
14 - Sock should be replaced when sediment has built up and has been removed three times.
15 - All sediment in disturbed area next to sock must be removed and correctly disposed of before the sock can be removed.
16 - When removing, cut sock open and spread the filler material around. The netting should be removed from site.
17 - Sock should be installed before works commence on site.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
6	08.30.2024	DZ	Town Comments

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Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL



TITLE: Demolition and Erosion Control Details

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023

DRAWING NO. C3.10

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

TOWN OF AMHERST, NY ZONING ANALYSIS

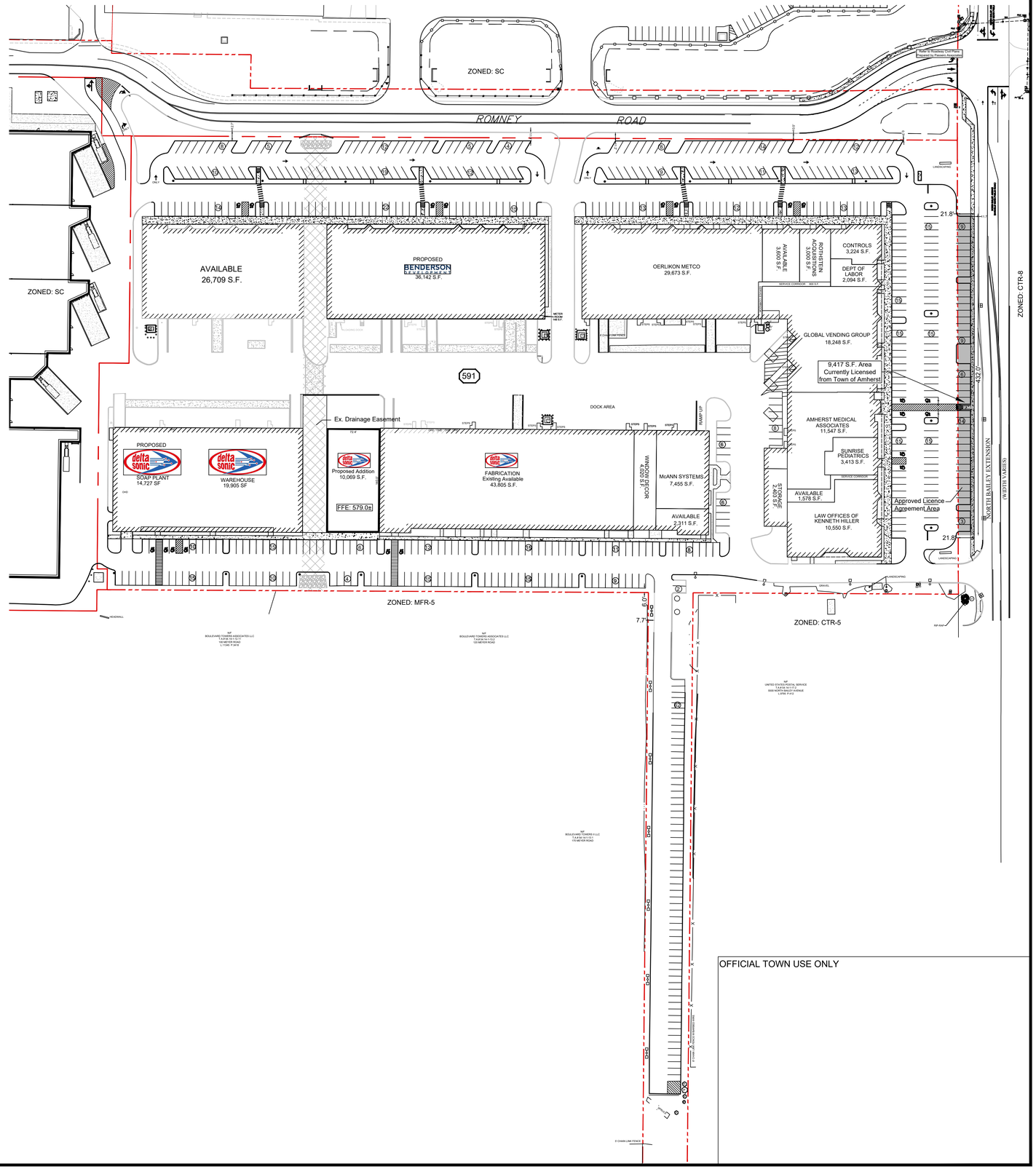
	REQUIRED	PROVIDED
ZONED (RD)	R-D	R-D
MIN LOT AREA	1 AC	17.14 AC
MAX. BUILDING HEIGHT	65'	<30'
BUILDING SETBACKS:		
FRONT YARD	40'	102.3'
SIDE YARD	15'	16.7'
REAR YARD	15'	48.4'
PARKING / ROAD/AUX SETBACKS:		
FRONT - ROMNEY ROAD	25'	0.3'
FRONT - N BAILEY	25'	*0'
REAR YARD	10'	6.0'

* Setback variance previously granted along North Bailey Road
- License Agreement along North Bailey has been previously granted
- Romney Road Pavement/Parking Setback - 14.5'
- N. Bailey Pavement/Parking Setback - 11.7'

PROPOSED PARKING ANAYLSIS

USE	CODE	S.F. USAGE	REQUIRED	PROVIDED
WAREHOUSE	1 / 1000 S.F.	177,407 SF	178 Spaces	
MEDICAL	1 / 150 S.F.	14,960 SF	100 Spaces	
RETAIL/OFFICE	1 / 200 S.F.	62,106 SF	311 Spaces	
TOTAL		254,252 SF	589 Spaces	591 Spaces
STALL SIZE			9' X 19'	9' X 19'

*Refer alternative parking study for site required parking



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SEAL

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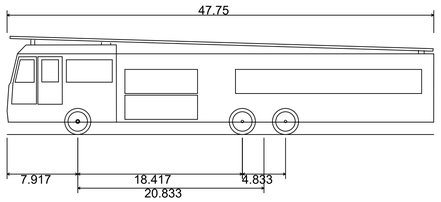
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Overall Site Plan

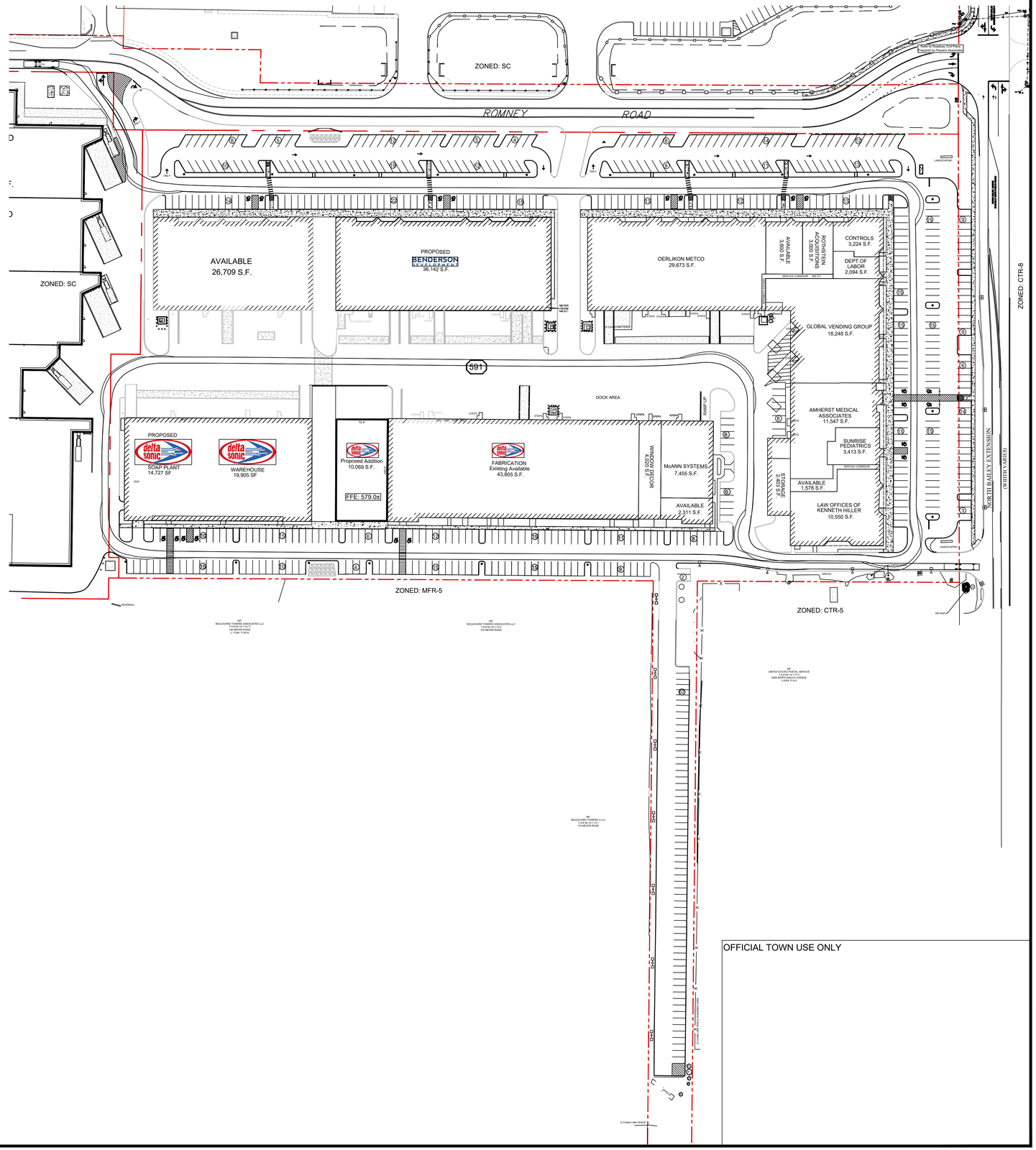
SCALE: 1:70
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.06.2023

DRAWING NO.
C4.0

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



E-ONE HP95 Mid Mount	
Overall Length	47.750ft
Overall Width	8.333ft
Overall Body Height	11.000ft
Min Body Ground Clearance	1.393ft
Track Width	8.333ft
Lock-to-lock time	6.00s
Max Wheel Angle	45.00°



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BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL



TITLE:

Fire Truck Turning Plan

SCALE: 1:70

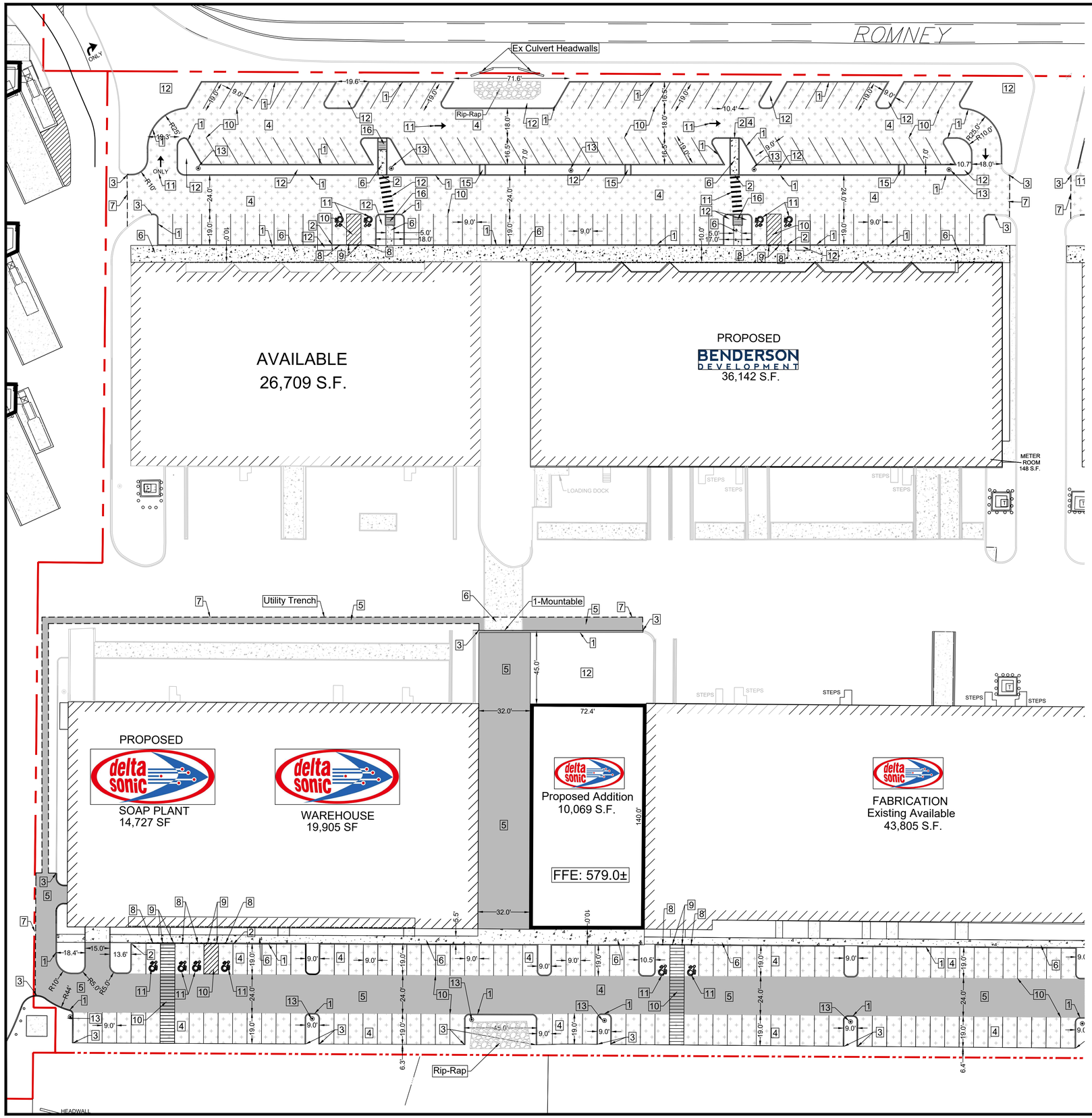
DRAWN BY: DMZ

CHECKED BY: MAO

DATE: 08.30.2024

DRAWING NO.: C4.01

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. BUILDING DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
10. SIDEWALK DIMENSIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIDEWALK PLAN .
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12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

SITE LEGEND:

- Property line
- 6" Curb (typ).
- Proposed sign & pole
- Proposed Concrete Sidewalk
- Proposed Standard Duty Pavement
- Proposed Heavy Duty Pavement

* All curb radii are 3ft unless noted.
* Refer to General Notes, Concstruction Details and Architectural Plans for Concrete Sealer information.

SITE NOTES: #

1. Proposed 6" concrete Curb.
2. Proposed Flush Concrete Curb.
3. Match into Existing Curb or runout over 2'.
4. Proposed Standard Duty Pavement.
5. Proposed Heavy Duty Pavement.
6. Proposed Concrete Pavement/Sidewalk.
7. Match into Existing Pavement.
8. Proposed "Handicapped Parking Only" sign.
9. Proposed "No Parking" sign.
10. 4" Yellow Pavement Stripe (at 2' c-c in no parking zones).
11. Proposed White Pavement symbol (stop bar, directional arrows, accessibility symbol, text)
12. Proposed Landscape Area.
13. Proposed Light Pole Base
14. Proposed Mill and Overlay Asphalt Pavement
15. Proposed 3' Wide Curb Opening
16. Proposed Curb Return Ramp

NB: All curb Radii to be 3' unless otherwise noted.

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	12.13.2023	DZ	POND UPDATES
2	05.08.2024	DZ	Site Plan Update
4	07.31.2024	DZ	Site Updates
5	08.12.2024	DZ	Site Updates

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PROPERTY NUMBER: #1723
AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

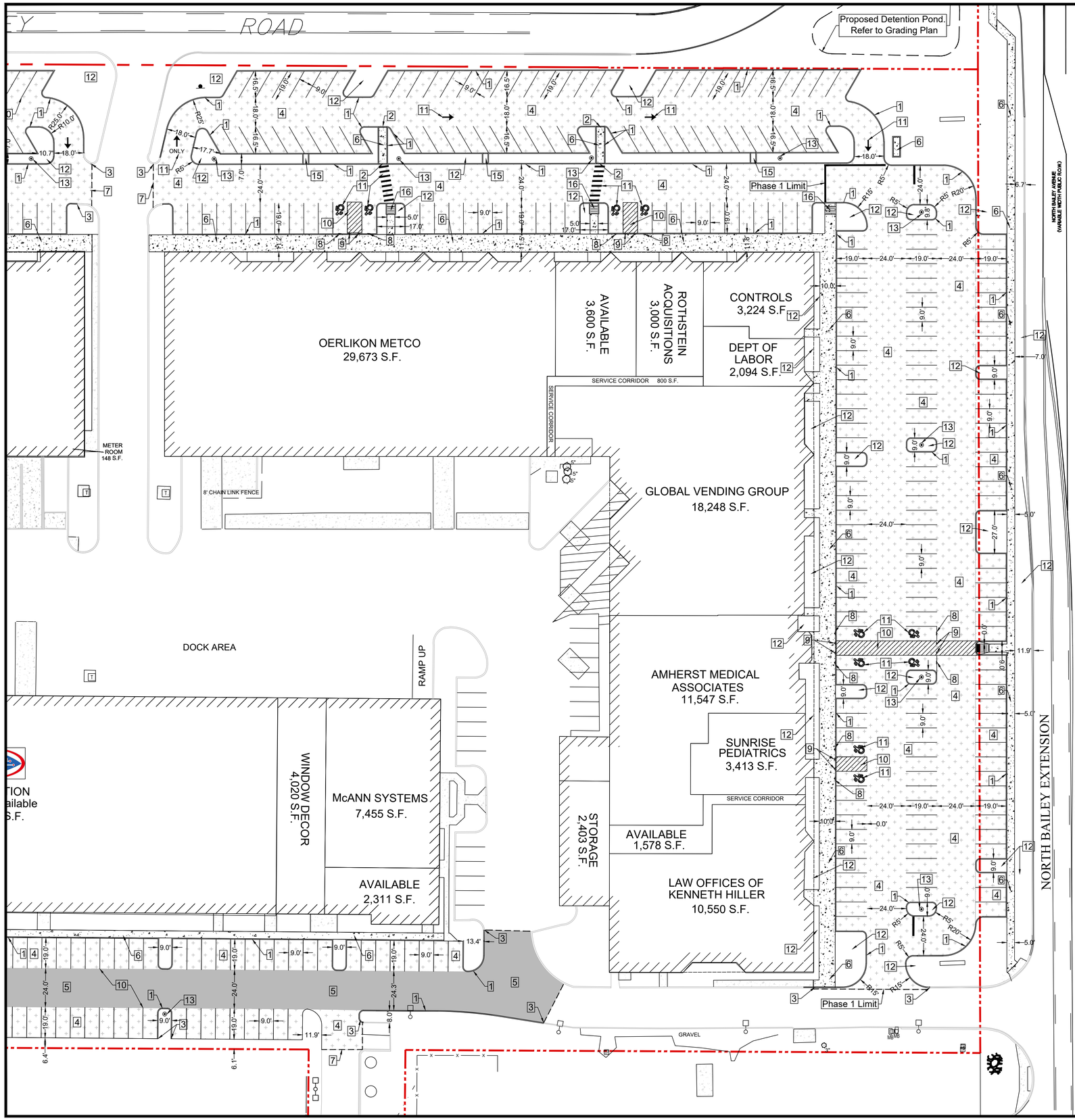
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 037703 STATE OF NEW YORK

TITLE:
Detailed Site Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO.: C4.10

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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OFFICIAL TOWN USE ONLY

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4	07.31.2024	DZ	Site Updates

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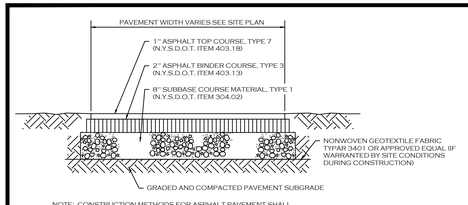
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 037103 STATE OF NEW YORK

TITLE: Detailed Site Plan (East)

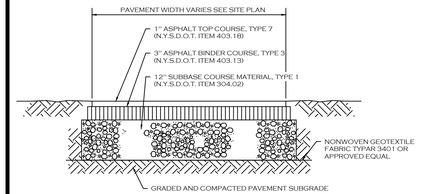
SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO.: C4.11

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



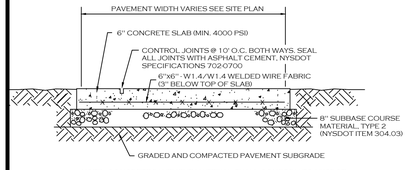
NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

STANDARD DUTY ASPHALT SECTION



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.

HEAVY DUTY ASPHALT SECTION

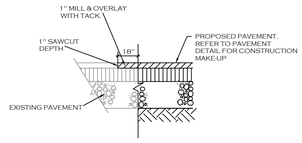


NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-3.

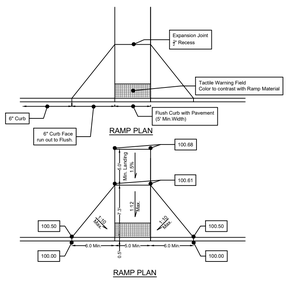
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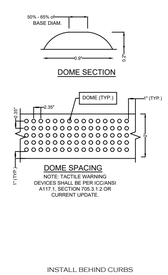
REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES FOR SIDEWALKS.

CONCRETE PAVEMENT (INC DUMPSTER)



PAVEMENT TRANSITION DETAIL
(ASPHALT PAVEMENT)







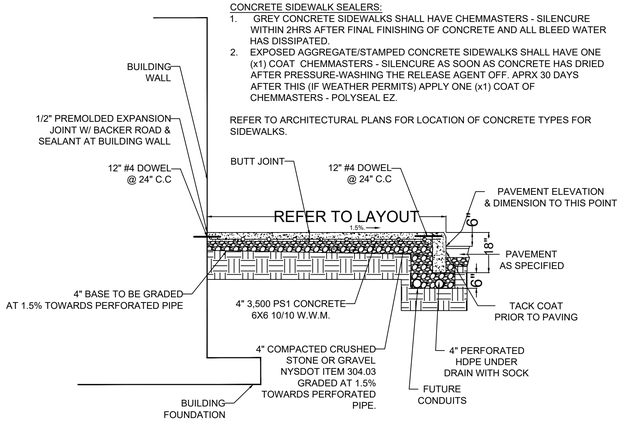
SIDEWALK CURB RAMP DETAIL

NOTES:
1. (1.5% SIDEWALK) GRADES ARE FOR REPRESENTATION ONLY. REFER TO LAYOUT FOR PROPOSED GRADES.

NOTES:
1. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3
2. BUTT JOINTS TO BE AT 5'-0" O.C. BOTH WAYS- SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.

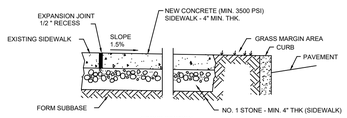
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REFER TO ARCHITECTURAL PLANS FOR LOCATION OF CONCRETE TYPES FOR SIDEWALKS.



BUILDING SIDEWALK DETAIL

CONTRACTOR TO VERIFY WITH OWNER ON CURB DETAIL

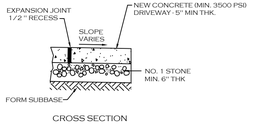


NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C. BOTHWAYS - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
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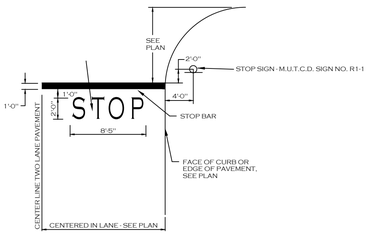
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STANDARD CONCRETE SIDEWALK

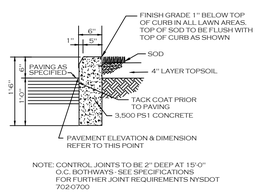


NOTES:
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RPZ ENCLOSURE PAD

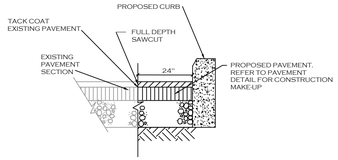


STOP BAR DETAIL

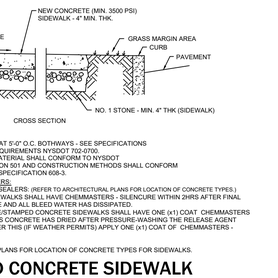


NOTE: CONTROL JOINTS TO BE 2" DEEP AT 15'-0" O.C. BOTHWAYS - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700

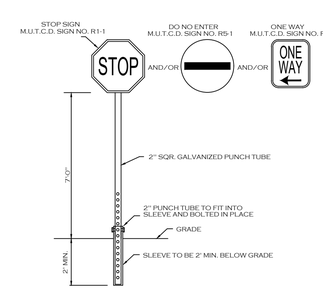
TYPE "A" CONCRETE CURB



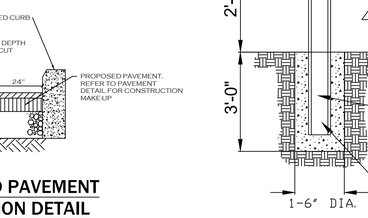
CURB AND PAVEMENT TRANISTION DETAIL



HANDICAP / NO PARKING SIGNS



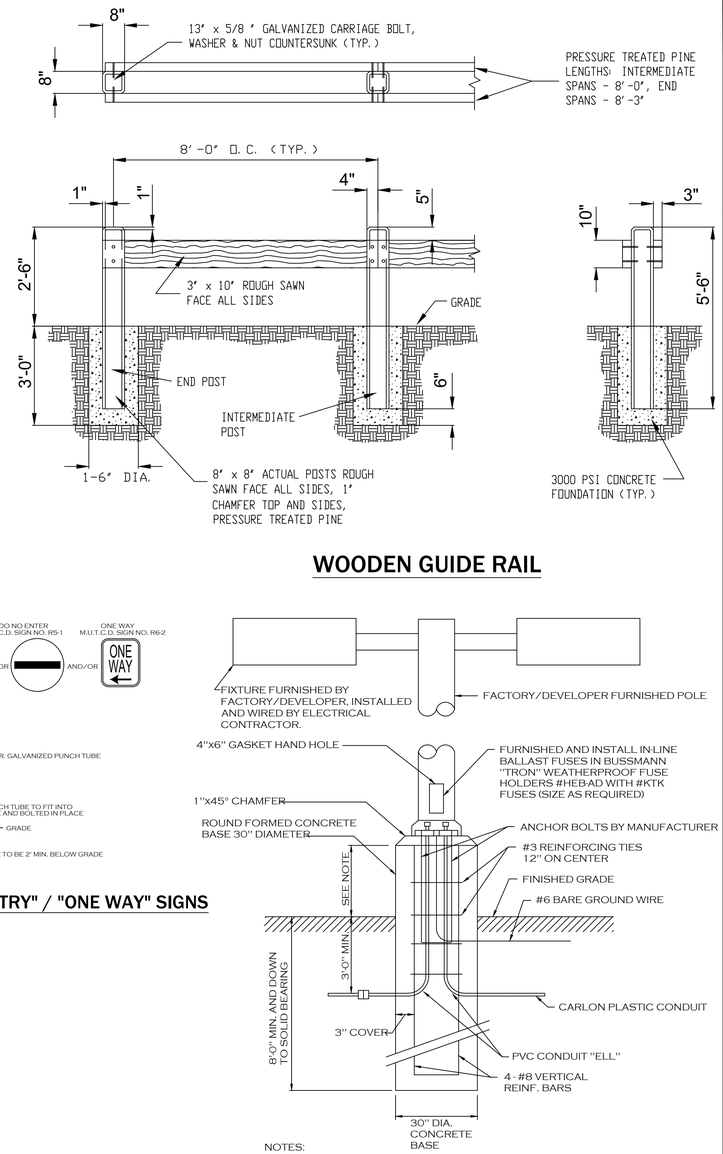
"STOP" / "NO ENTRY" / "ONE WAY" SIGNS



INTERNATIONAL ACCESSIBILITY SYMBOL

PAINTED TRAFFIC ARROWS

WOODEN GUIDE RAIL



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

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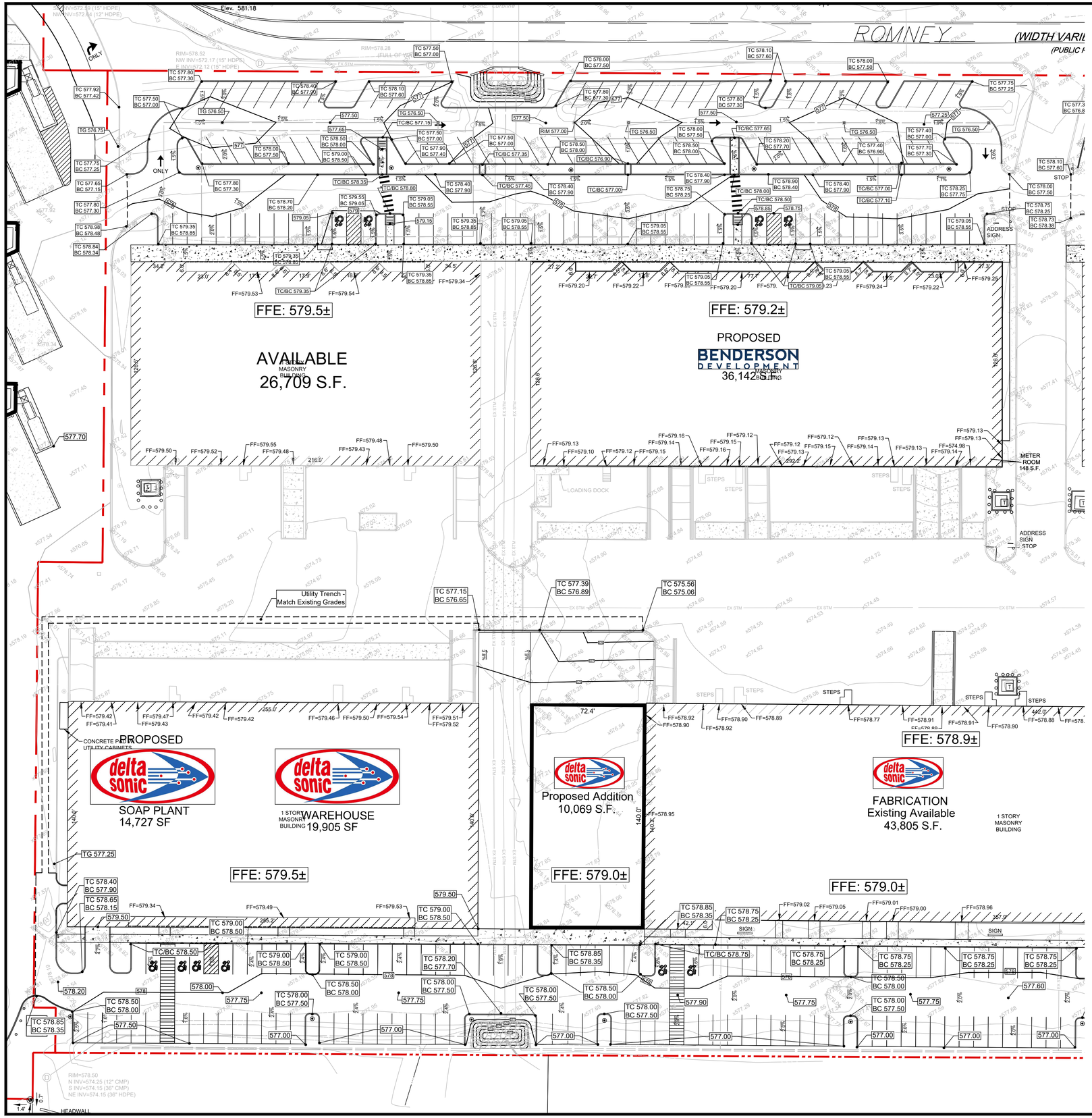
SEAL



TITLE: Construction Details

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO.: C4.20

Attachment: SP-1988-11P_drawings updated 090924, 091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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- TG ## — Catch Basin - Top of Grade
- ### — Proposed Contour Line
- ##% — Slope Direction

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2	05.08.2024	DZ	Site Plan Update
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Know what's below. Call before you dig.

PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 031709 STATE OF NEW YORK

TITLE:
Grading Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C5.00

Attachment: SP-1988-11P_drawings updated 090924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

ROAD

Detention Pond
~6,000 CF Storage

LANDSCAPING

ONLY

OERLIKON METCO
29,673 S.F.

1 STORY
MASONRY
BUILDING

FFE: 579.4±

AVAILABLE
3,600 S.F.

FFE: 579.3±

CONTROLS
3,224 S.F.

DEPT OF
LABOR
2,094 S.F.

SERVICE CORRIDOR 800 S.F.

SERVICE CORRIDOR

METER
ROOM
148 S.F.

8' CHAIN LINK FENCE

GLOBAL VENDING GROUP
18,248 S.F.

FFE: 579.3±

DOCK AREA

RAMP UP

AMHERST MEDICAL
ASSOCIATES
11,547 S.F.

SUNRISE
PEDIATRICS
3,413 S.F.

SERVICE CORRIDOR

AVAILABLE
1,578 S.F.

LAW OFFICES OF
KENNETH HILLER
10,550 S.F.

FFE: 578.9±

1 STORY
MASONRY
BUILDING

WINDOW DECOR
4,020 S.F.

McANN SYSTEMS
7,455 S.F.

STORAGE
2,403 S.F.

AVAILABLE
2,311 S.F.

Match into Existing

GRAVEL

LANDSCAPING

NO. EX. EXTENSION (WIDTH VARIES)

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13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

GRADING LEGEND:
- Property Line
- 6" Curb (typ.)
- TG ## — Catch Basin - Top of Grade
- ### — Proposed Contour Line
- ##% — Slope Direction

Refer to Roadway Civil Plans
Prepared by Passero Associates

Detention Pond
~6,000 CF Storage

POI 2

Detention Pond 1" = 20'

OFFICIAL TOWN USE ONLY

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(716) 886-0211

SEAL

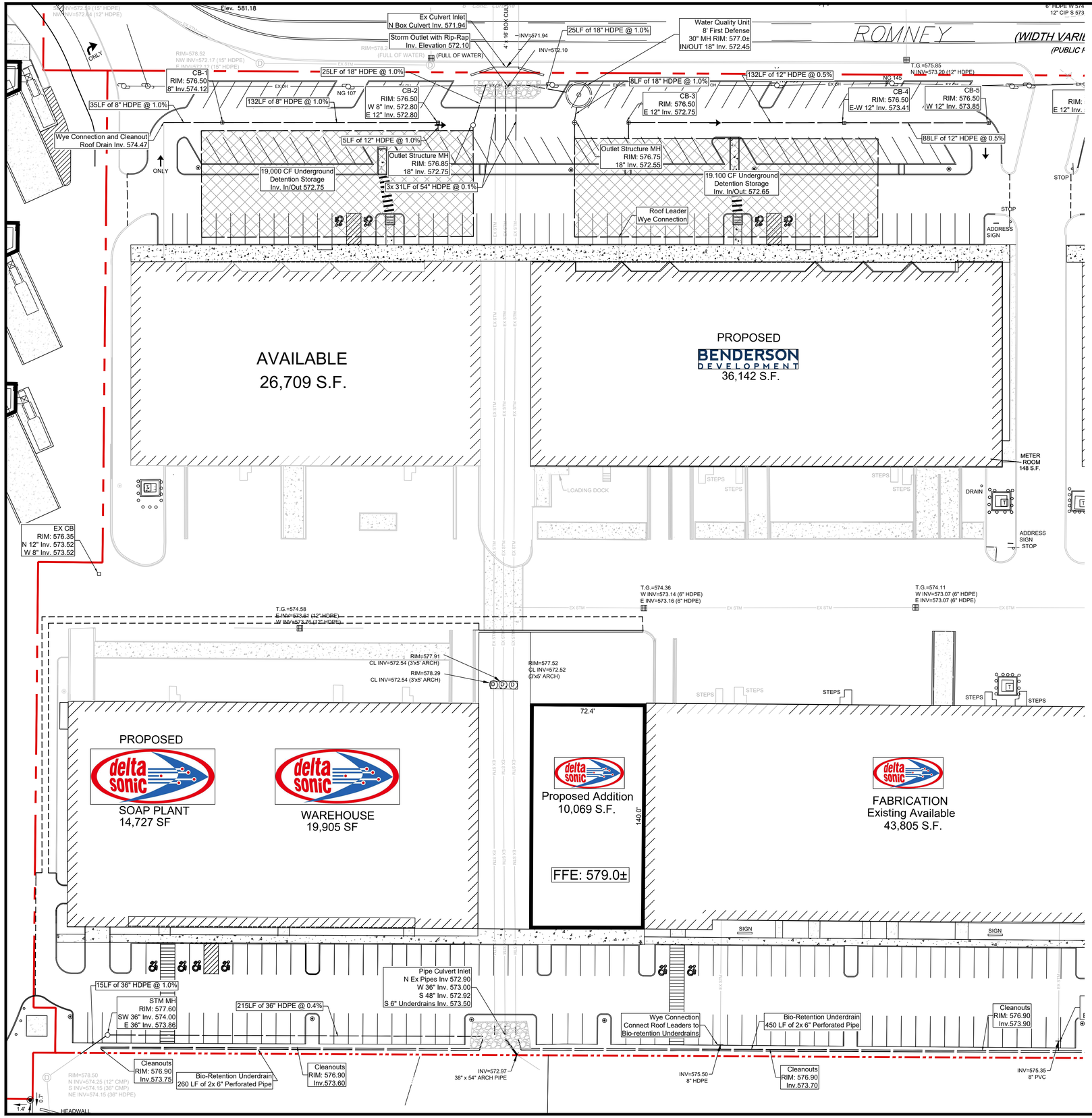
REGISTERED ARCHITECT JAMES ALLEN RUMSEY STATE OF NEW YORK

TITLE:

Grading Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.: C5.01

Attachment: SP-1988-11P drawings updated 090924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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DRAINAGE LEGEND:

- PROPERTY LINE
- PROPOSED STORMWATER
- 6" CURB TYP.
- CO / WC — PROPOSED STORM CLEAN OUT / WYE CONNECTION
- CB - # — PROPOSED CATCH BASIN

OFFICIAL TOWN USE ONLY

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SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY STATE OF NEW YORK

TITLE:

Drainage Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO. C5.10

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(WIDTH VARIES) ROAD
(PUBLIC ROAD)

Storm D.I.
Rim 576.71
12" CIP N 2.57
6" HDPE E 573.91
6" HDPE W 574.06

Utility Pole
NG 165

CB-6
RIM: 576.50
E 12" Inv. 574.85

CB-7
RIM: 576.50
E-W 12" Inv. 574.45

CB-8
RIM: 576.50
N 15" Inv. 574.18
W 12" Inv. 574.18

Water Quality Unit
8' First Defense
30" MH RIM: 577.5±
IN/OUT 15" Inv. 574.10

18 LF of 12" HDPE @ 0.5%
12" Inlet Inv. 574.00
41LF of 36" HDPE @ 0.5%
35 LF of 15" HDPE @ 0.2%
197LF of 12" HDPE @ 0.2%
133LF of 12" HDPE @ 0.2%
@ 0.5%
ONLY

6' MH-6 (D-14)
RIM: 578.79
NW 36" Inv. 573.98
S 36" Inv. 573.98
NE 15" 574.57

34LF of 36" HDPE @ 0.5%
B4LF of 36" HDPE @ 0.5%
44LF of 12" HDPE @ 1.0%
CB-10
RIM: 577.20
E 12" Inv. 575.46
44LF of 12" HDPE @ 1.0%
CB-11
RIM: 577.70
E 12" Inv. 575.30
MH-3
RIM: 579.25
N-S 36" Inv. 574.80
E 12" Inv. 576.00
CB-12
RIM: 577.20
E 12" Inv. 575.40
44LF of 12" HDPE @ 1.0%
CB-13
RIM: 577.65
E 12" Inv. 575.50
44LF of 12" HDPE @ 1.0%
Connect to Existing 12" STM
Inv. 575.43
10LF of 12" HDPE @ 3.0%
MH-2
RIM: 578.85
N-S 36" Inv. 575.10
E 15" Inv. 576.80
44LF of 12" HDPE @ 0.5%
CB-14
RIM: 577.30
E 12" Inv. 575.32
9LF of 10" HDPE @ 1.0%
Connect to Existing 10" CMP
Inv. 575.47
44LF of 12" HDPE @ 0.5%
CB-15
RIM: 577.70
E 12" Inv. 575.36
MH-1
RIM: 579.50
N 36" Inv. 575.21
S 36" Inv. 575.36

T.G.=578.76
S INV=573.99 (36" HDPE)
NW INV=573.74 (36" HDPE)

MH-5
RIM: 579.00
N 36" Inv. 574.15
S 36" Inv. 574.15

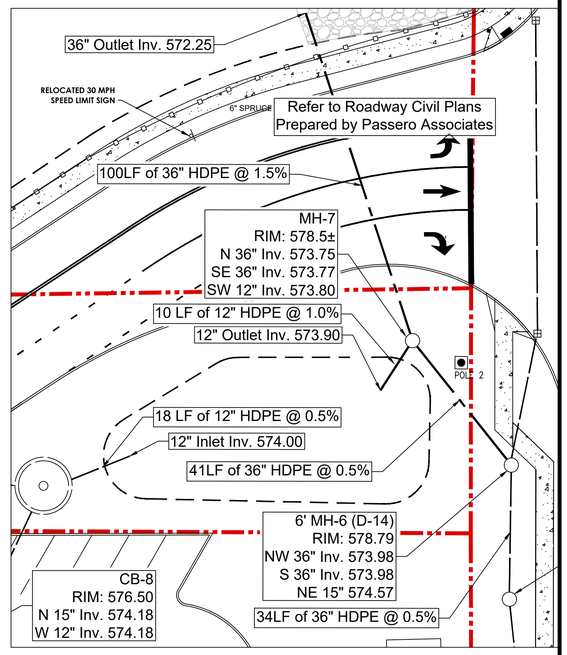
MH-4
RIM: 579.25
N-S 36" Inv. 574.57
E 12" Inv. 575.02
115LF of 36" HDPE @ 0.2%
Storm D.I.
Rim 577.57
12" HDPE S. 574.07
18" CMP N. 573.75
18" CMP E. 573.87
12" Wye Connection
36" Inv. 574.73
T.G.=579.84
W INV=576.66 (12" HDPE)
Storm D.I.
Rim 580.09
6" HDPE S. 577.64
12" HDPE W. 576.88
9LF of 12" HDPE @ 3.0%
12" Wye Connection
36" Inv. 574.89
153LF of 36" HDPE @ 0.2%
12" Wye Connection
36" Inv. 575.06
12" Wye Connection
36" Inv. 575.07
13LF of 15" HDPE @ 3.0%
T.G.=580.65
E INV=578.25 (12" HDPE)
INV=577.69
12" Wye Connection
36" Inv. 575.21
159LF of 36" HDPE @ 0.2%
10" Wye Connection
36" Inv. 575.29
Wye Connection
36" Inv. 575.36
16LF of 15" HDPE @ 3.0%
T.G.=580.85
E INV=578.80 (12" HDPE)
INV=577.82
T.G.=580.85
E INV=578.83 (12" HDPE)
RIM=580.66
N INV=575.74 (36" HDPE)
S INV=575.76 (36" HDPE)
NE INV=576.51 (12" HDPE)
W INV=575.81 (12" HDPE)
T.G.=580.49
SW INV=576.50 (12" HDPE)
S INV=576.69 (12" HDPE)
T.G.=580.54
E INV=578.44 (12" HDPE)
INV=577.68
T.G.=578.10
E INV=576.13 (12" HDPE)

NORTH BAILEY AVENUE (PUBLIC ROW)

OERLIKON METCO
29,673 S.F.
AVAILABLE
3,600 S.F.
ROTHSTEIN ACQUISITIONS
3,000 S.F.
CONTROLS
3,224 S.F.
DEPT OF LABOR
2,094 S.F.
SERVICE CORRIDOR 800 S.F.
SERVICE CORRIDOR
METER ROOM
148 S.F.
8' CHAIN LINK FENCE
RIM=578.52
N INV=573.22 (8" PVC)
S INV=567.60 (8" PVC)
W INV=567.62 (8" PVC)
GLOBAL VENDING GROUP
18,248 S.F.
T.G.=574.25
W INV=573.25 (6" HDPE)
E INV=573.30 (6" HDPE)
T.G.=574.72
W INV=573.65 (4" PVC)
DOCK AREA
RAMP UP
WINDOW DECOR
4,020 S.F.
McANN SYSTEMS
7,455 S.F.
AVAILABLE
2,311 S.F.
AMHERST MEDICAL
ASSOCIATES
11,547 S.F.
SUNRISE
PEDIATRICS
3,413 S.F.
SERVICE CORRIDOR
STORAGE
2,403 S.F.
AVAILABLE
1,578 S.F.
LAW OFFICES OF
KENNETH HILLER
10,550 S.F.
RIM=578.30
N INV=566.40 (8" PVC)
W INV=566.31 (8" PVC)
NE INV=573.04 (8" PVC)
T.G.=576.76
E INV=574.71 (10" PVC)
W INV=574.78 (10" PVC)
T.G.=576.67
N INV=574.82 (10" PVC)
SE INV=574.92 (6" PVC)
Cleanouts
RIM: 576.90
Inv.573.90
Wye Connection
Connect Roof Leaders to
Bio-retention Underdrains
Cleanouts
RIM: 576.90
Inv.574.00
INV=575.35
8" PVC
0.1"
1-1/4" PIPE
0.6' BELOW
GRADE
RIM=578.87
(LOCKED)
1-1/4" PIPE
0.4' BELOW
GRADE
1-1/4" PIPE
0.2' BELOW GRADE
0.5'
0.1'

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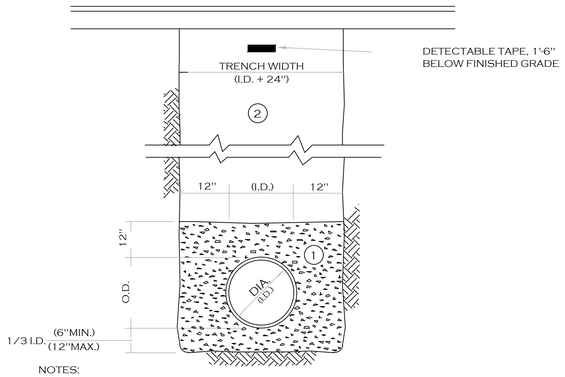
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY STATE OF NEW YORK

TITLE:
Drainage Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 11.08.2023
DRAWING NO.
C5.11

Attachment: SP-1988-11P drawings updated 090924, 091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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)

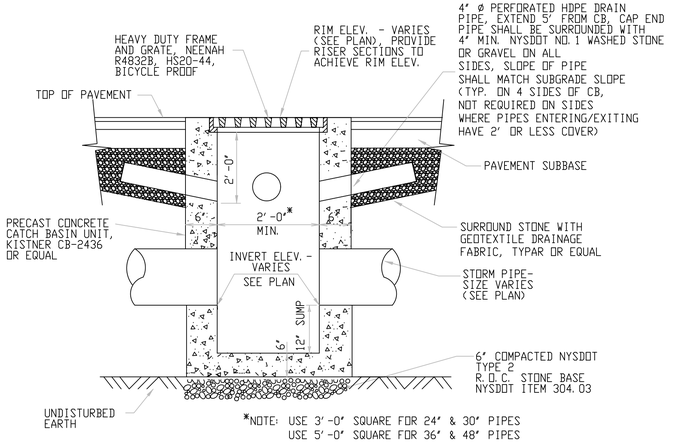
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

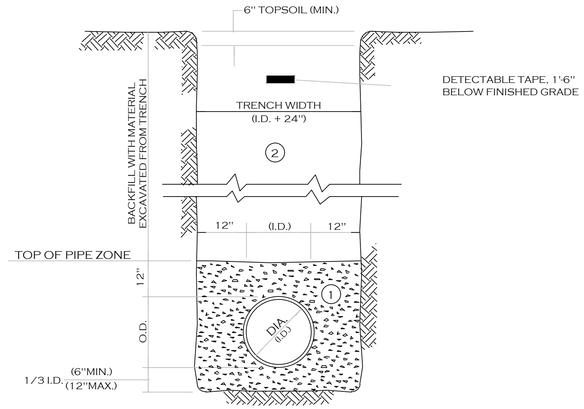
(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERAIL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

TRENCH SECTION IN PAVED AREAS



TYPICAL PRECAST CATCH BASIN



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D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

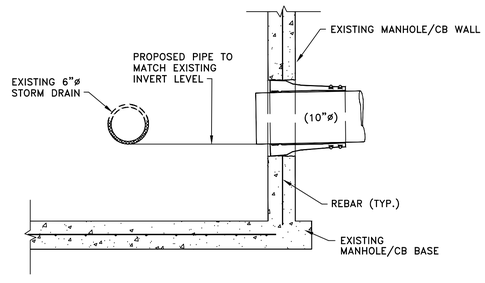
PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(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)

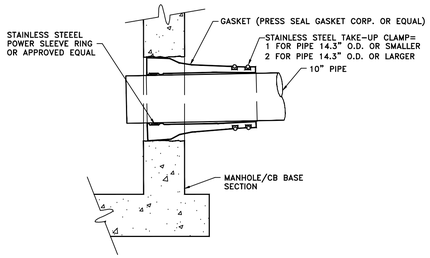
(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

TRENCH SECTION IN UNPAVED AREAS

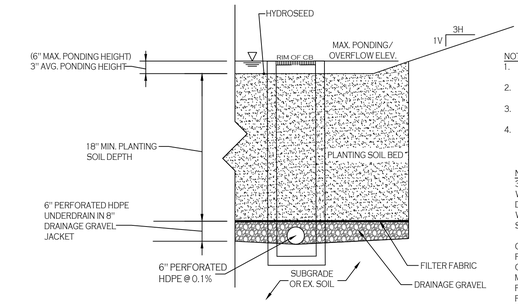


NOTES:

1. CORE DRILL ENTRANCE HOLE IN PRECAST MANHOLE BARREL, BASE AND/OR BENCH FOR REQUIRED PIPE CLEARANCE. PER MANUFACTURERS RECOMMENDATIONS.
2. DOES NOT APPLY TO HOUSE LATERALS.
3. WATERTIGHT PIPE TO MANHOLE BOOT SEAL REQUIRED FOR ALL CORE DRILLED ENTRANCE HOLES IN MANHOLE BARREL AS SHOWN BELOW.



CONNECTION TO EXISTING MANHOLE/CB



BIORETENTION AREA - TYPICAL SECTION

NOTES:

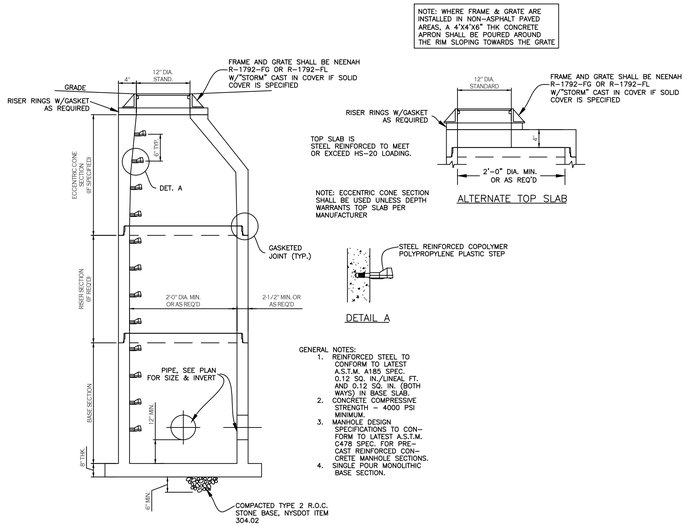
1. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180N OR APPROVED EQUIVALENT
2. MULCH TO BE SHREDDED HARDWOOD, AGED 12 MONTHS MIN.
3. DRAINAGE GRAVEL TO MEET AASHTO M-43, NO.67, SIZE 0.25" TO 0.75"
4. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

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



TYPICAL STORM MANHOLE DETAIL

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	12.13.2023	DZ	POND UPDATES

SPECIAL INFORMATION:

ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ANY AND ALL STRUCTURES.

NOTICE

UNAUTHORIZED ALTERATIONS OF THIS DOCUMENT ARE IN VIOLATION OF SECTION #7209 OF THE STATE EDUCATION LAW.

NORTH

811 Know what's below. Call before you dig.

PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 029109 STATE OF NEW YORK

TITLE: Drainage Details

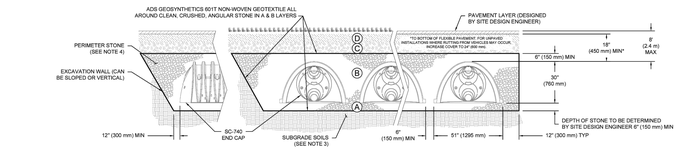
SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO. C5.20

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 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.	N/A	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 18" (450 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* A-1, A-2-4, A-3 OR AASHTO M43* 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	AASHTO M43* 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	AASHTO M43* 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.

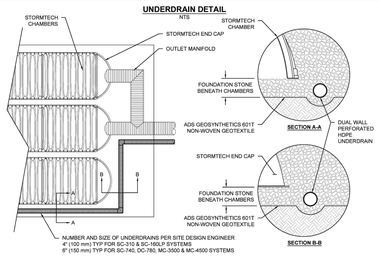


NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a. "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 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.
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 F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. 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.

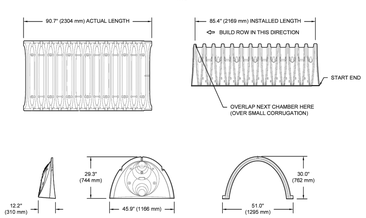
UNDERDRAIN DETAIL

NTS



SC-740 TECHNICAL SPECIFICATION

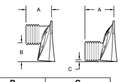
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W x H x INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1296 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



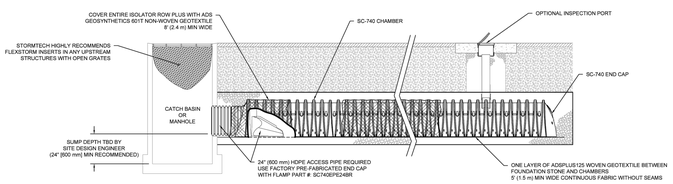
PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	—
SC740EPE06B / SC740EPE06BPC				0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (418 mm)	—
SC740EPE08B / SC740EPE08BPC			—	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	—
SC740EPE10B / SC740EPE10BPC			—	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	—
SC740EPE12B / SC740EPE12BPC			—	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	—
SC740EPE15B / SC740EPE15BPC			—	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	—
SC740EPE18B / SC740EPE18BPC			—	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	—	0.1" (3 mm)
SC740EPE24BR*	24" (600 mm)	18.5" (470 mm)	—	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR 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 SC740EPE24B/SC740EPE24BR THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL



SC-740 ISOLATOR ROW PLUS DETAIL

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. LOCATE ISOLATOR ROW 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.

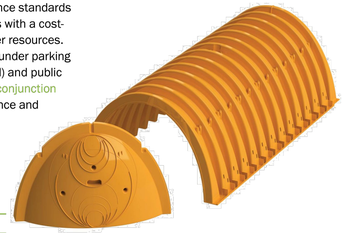
STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

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.

StormTech SC-740 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.



StormTech SC-740 Chamber (not to scale)

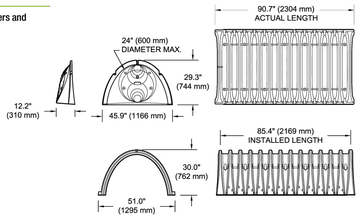
Nominal Chamber Specifications

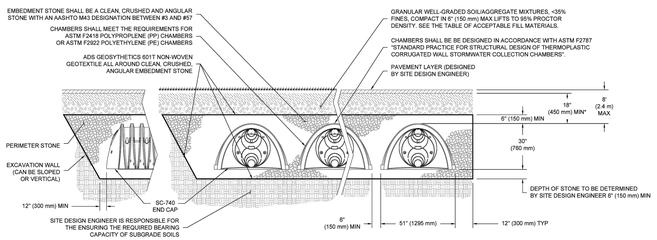
Size (L x W x H)	85.4" x 51.0" x 30.0" (2,170 x 1,295 x 762 mm)
Chamber Storage	45.9 ft³ (1.30 m³)
Min. Installed Storage*	74.9 ft³ (2.12 m³)
Weight	74.0 lbs (33.6 kg)

*Assumes 6" (150 mm) stone above, below and between chambers and 40% stone porosity.

Shipping

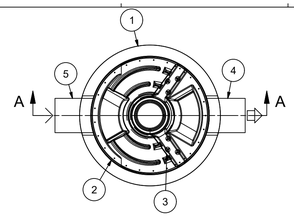
30 chambers/pallet
60 end caps/pallet
12 pallets/truck





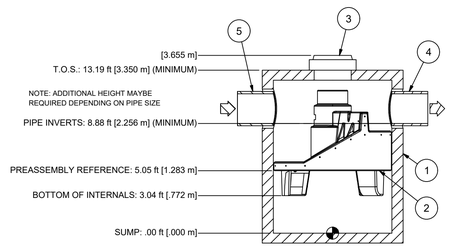
*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.



PLAN VIEW

HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS AS REQUIRED



SECTION A-A

PRODUCT SPECIFICATION:

1. Peak Hydraulic Flow: 50.0 cfs (1415 l/s)
2. Min Sediment Storage Capacity: 2.8 cu. yd. (2.1 cu. m.)
3. Oil Storage Capacity: 1002 gal. (3793 liters)
4. Maximum Inlet/Outlet Pipe Diameters: 48 in. (1200 mm)
5. The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
6. For more product information including regulatory acceptances, please visit https://hydro-int.com/en/products/first-defense

GENERAL NOTES:

1. General Arrangement drawings only. Contact Hydro International for site specific drawings.
2. The diameter of the inlet and outlet pipes may be no more than 48".
3. Multiple inlet pipes possible (refer to project plan).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plan.s)
5. Peak flow rate and minimum height limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

PARTS LIST				
ITEM	QTY	SIZE (in)	SIZE (mm)	DESCRIPTION
1	1	96	2400	I.D. PRECAST MANHOLE
2	1			INTERNAL COMPONENTS (PRE-INSTALLED)
3	1	30	750	FRAME AND COVER (ROUND)
4	1	48 (MAX)	1200 (MAX)	OUTLET PIPE (BY OTHERS)
5	1	48 (MAX)	1200 (MAX)	INLET PIPE (BY OTHERS)

ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE, PLANT, OR EQUIPMENT, (OR THE PERFORMANCE THEREOF) DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL HAVE A POLICY OF CONTINUOUS DEVELOPMENT AND RESERVE THE RIGHT TO AMEND THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF ITS EQUIPMENT, (OR ANY PART THEREOF), IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION. HYDRO INTERNATIONAL OWNS THE COPYRIGHT OF THIS DRAWING, WHICH IS SUPPLIED IN CONFIDENCE. IT MUST NOT BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED AND MUST NOT BE REPRODUCED, IN WHOLE OR IN PART, WITHOUT PRIOR PERMISSION IN WRITING FROM HYDRO INTERNATIONAL.

PROJECTION

IF IN DOUBT ASK

COMMENTS:

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.

2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.

3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

DATE:	SCALE:
10/7/2019	1:50
DRAWN BY: ER	CHECKED BY: MRJ
APPROVED BY	

Title:
8-ft DIAMETER
FIRST DEFENSE HIGH CAPACITY
GENERAL ARRANGEMENT

Hydro International
hydro-int.com
HYDRO INTERNATIONAL

DO NOT SCALE DRAWING
STEEL FABRICATION TOLERANCES
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

LINEAR	ANGULAR
000 - 012in = ±0.04in	000 - 120in = ±1°
012 - 024in = ±0.06in	120 - 240in = ±0.5°
024 - 048in = ±0.09in	240in >>>> = ±0.25°
048 - 120in = ±0.12in	
120in >>>> = ±0.20in	

WEIGHT: N/A
MATERIAL:
STOCK NUMBER:
DRAWING NO.: FDHC GA-8
SHEET SIZE: B
SHEET: 1 OF 1
Rev: -

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

SPECIAL INFORMATION:

ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

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NORTH

811 Know what's below. Call before you dig.

PROPERTY NUMBER: #1723
AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

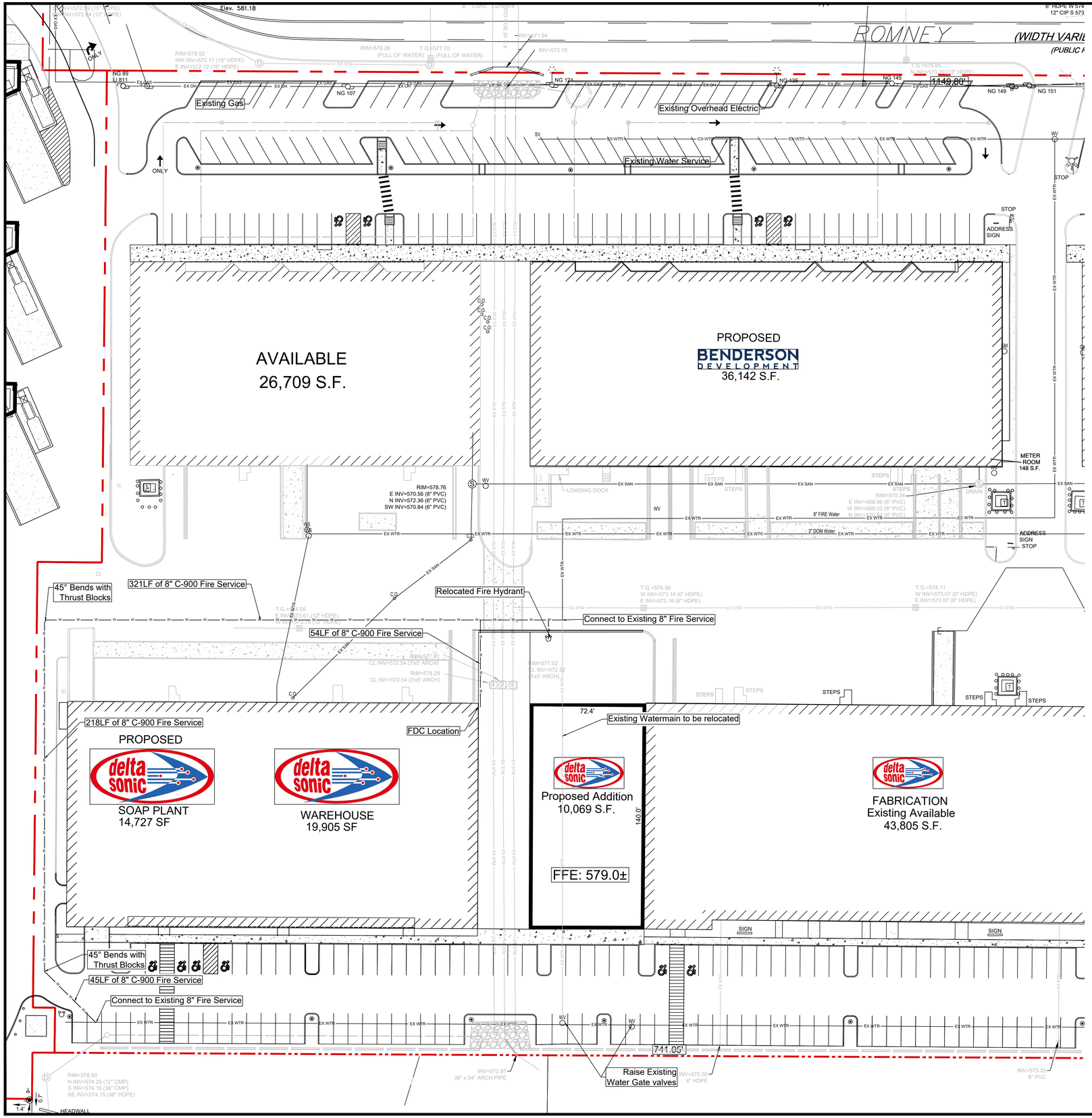
SEAL



TITLE:
Drainage Details

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.30.2023
DRAWING NO.: C5.21

Attachment: SP-1988-11P_drawings updated 090924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave) Updated 090924. 091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



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11.1. GREY CONCRETE SIDEWALKS SHALL HAVE CHEMMASTERS - SILENCURE WITHIN 2HRS AFTER FINAL FINISHING OF CONCRETE AND ALL BLEED WATER HAS DISSIPATED.
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12. LIGHTING FIXTURE ARROW SYMBOLS REFER TO THE DIRECTION THAT THE FIXTURES ARE REQUIRED TO FACE. SPECIFIC MOUNT BRACKETS WILL BE REQUIRED DEPENDING ON ORIENTATION AND FIXTURE COUNT.
13. CURB ISLAND DIMENSIONS ARE FROM INSIDE OF CURB TO INSIDE OF CURB.

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UTILITY NOTES:
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OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	12.13.2023	DZ	POND UPDATES
2	05.08.2024	DZ	Site Plan Update
4	07.31.2024	DZ	Site Updates
5	08.12.2024	DZ	Site Updates
6	08.30.2024	DZ	Town Comments

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ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 037703 STATE OF NEW YORK

TITLE:
Utility Plan (West)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO.: C6.00

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

(WIDTH VARIES) ROAD
(PUBLIC ROAD)

Utility Pole NG 165
NG 149 NG 151 NG 167 NG 165 NG 175 NG 198 NG 5220
APPROXIMATE LOCATION 2" GAS MAIN
8" Fire Service Relocation
LANDSCAPING
Relocated Existing Fire Service Hot Box
NG 5205
Relocated Existing Guy Wire
Adjust Water Valve to Grade
Relocated Existing Guy Wire
NG 5184
NG 5150
NORTH BAILEY AVENUE (VARIABLE WIDTH PUBLIC ROW)
White Stripe
Concrete Walk
Rec. Walk

OERLIKON METCO
29,673 S.F.

AVAILABLE
3,600 S.F.

ROTHSTEIN ACQUISITIONS
3,000 S.F.

CONTROLS
3,224 S.F.

DEPT OF LABOR
2,094 S.F.

SERVICE CORRIDOR 800 S.F.

METER ROOM
148 S.F.

8' CHAIN LINK FENCE

RIM=578.52
N INV=573.22 (8" PVC)
S INV=567.60 (8" PVC)
W INV=567.62 (8" PVC)

GLOBAL VENDING GROUP
18,248 S.F.

DOCK AREA
RAMP UP

AMHERST MEDICAL ASSOCIATES
11,547 S.F.

SUNRISE PEDIATRICS
3,413 S.F.

SERVICE CORRIDOR

AVAILABLE
1,578 S.F.

LAW OFFICES OF KENNETH HILLER
10,550 S.F.

STORAGE
2,403 S.F.

WINDOW DECOR
4,020 S.F.

McANN SYSTEMS
7,455 S.F.

AVAILABLE
2,311 S.F.

FDC Location

RIM=578.30
N INV=566.40 (8" PVC)
W INV=566.31 (8" PVC)
NE INV=573.04 (8" PVC)

LANDSCAPING
GRAVEL
NG 5150R-2
NG 5150R-1
5150R
1-1/4" PIPE 0.4' BELOW GRADE
1-1/4" PIPE 0.6' BELOW GRADE
1-1/4" PIPE 0.2' BELOW GRADE
RIM=578.87 (LOCKED)
Existing Hot Box Enclosure

NORTH BAILEY EXTENSION (WIDTH VARIES)

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No.	DATE	BY	REMARKS
1	12.13.2023	DZ	POND UPDATES
4	07.31.2024	DZ	Site Updates
6	08.30.2024	DZ	Town Comments

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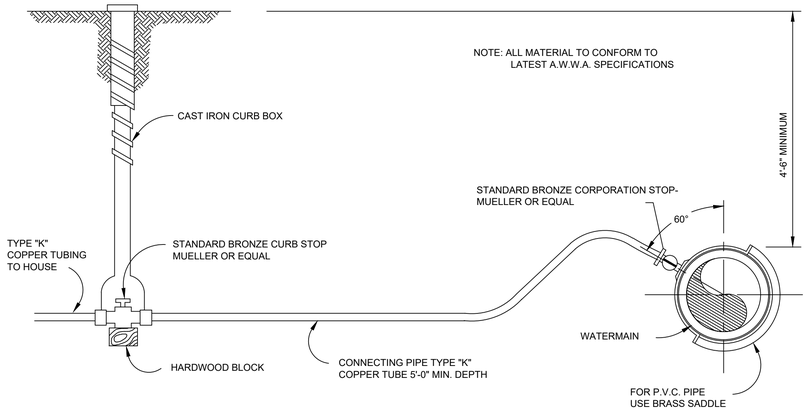
SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 027109 STATE OF NEW YORK

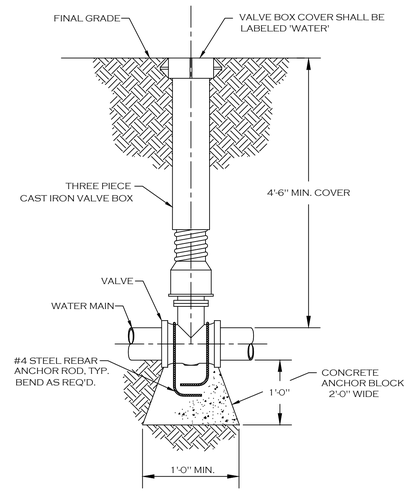
TITLE:
Utility Plan (East)

SCALE: 1:30
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO.: C6.01

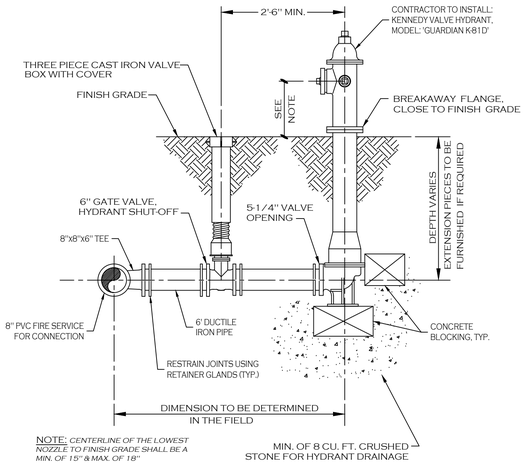
Attachment: SP-1988-11P_drawings updated 090924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



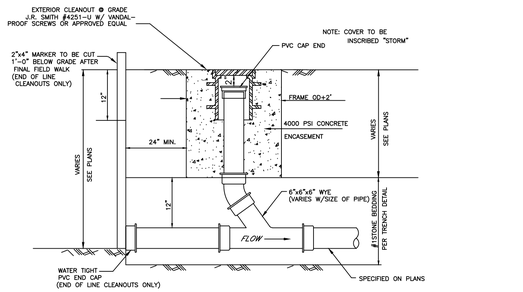
TYPICAL WATER SERVICE LINE INSTALLATION



TYPICAL GATE VALVE DETAIL

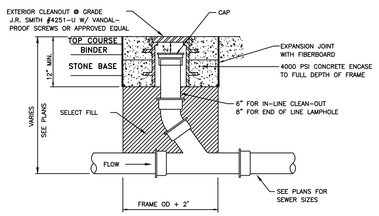


TYPICAL FIRE HYDRANT ASSEMBLY DETAIL



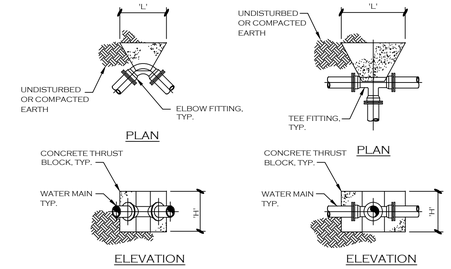
CLEANOUT IN LANDSCAPED AREAS

NOT TO SCALE



CLEANOUT IN PAVED 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

WATER MAIN

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS

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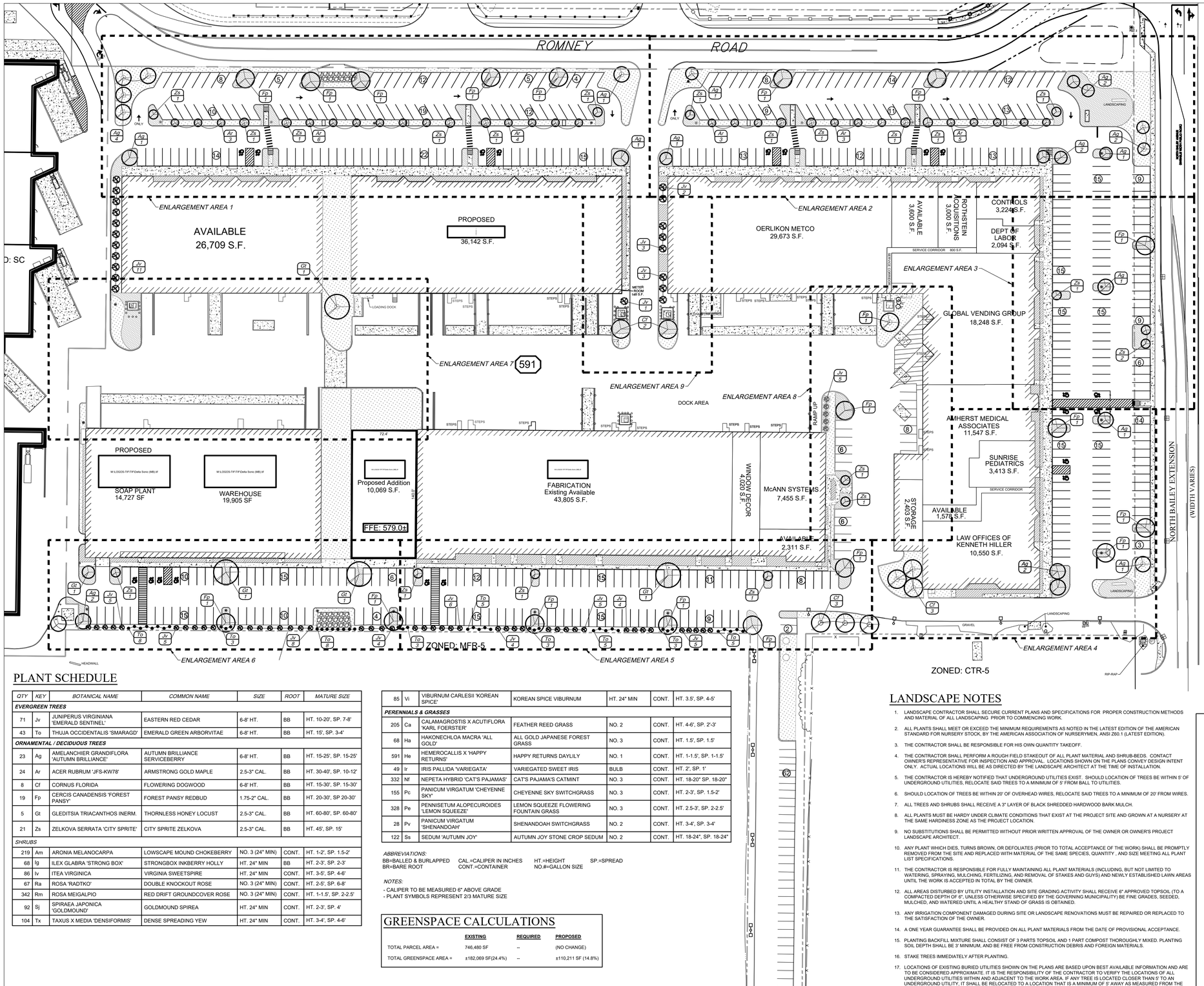
SEAL

REGISTERED ARCHITECT
JAMES ALLEN RUMSEY
109
STATE OF NEW YORK

TITLE:
Utility Details

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO. C6.10

Attachment: SP-1988-11P_drawings updated 090924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)





No.	Revision/Issue	Date
01	Revised based on site plan changes	2024-08-21

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

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LEGEND

- AREAS TO RECEIVE 4-6" TOPSOIL AND PERMANENT LAWN HYDRO SEED MIX
- PARKING LOT LANDSCAPE AREAS
- FOUNDATION LANDSCAPE AREAS

NOTE:
ALL DISTURBED LAWN AREAS SHALL RECEIVE 4-6" TOPSOIL AND PERMANENT LAWN HYDROSEED MIX.

SEED MIX:

PURITY	%GERM	LBS/ACRE	%BY
'Pennfine' Perennial Rye Grass	85	35	85
'Pennlawn' Red Fescue	80	35	97
'Baron' and 'Midnight' Kentucky Bluegrass	80	30	85

SEEDING RATE: 6.0 POUNDS PER 1,000 SQUARE FEET

MULCH: STRAW OR WOOD FIBER MULCH APPLIED AT THE RATE OF TWO TONS PER ACRE

STARTING FERTILIZER: 5:10:10 AT 20 POUNDS PER 1,000 SQUARE FEET

FOR FALL OR EARLY WINTER, SEED WITH CERTIFIED "AROOSTOCK" WINTER RYE (CEREAL RYE) AT 100 POUNDS PER ACRE.

Applicant

BENDERSON DEVELOPMENT

570 DELAWARE AVE, BUFFALO, NY 14202
PHONE (716) 886-0211 FAX (716)-856-7791
WWW.BENDERSON.COM

PROJECT NO.: 1810

Landscape Architect's Seal

REGISTERED LANDSCAPE ARCHITECT SARAH COSTICH 00257A STATE OF NEW YORK

Landscape Architect

COSTICH ENGINEERING

- CIVIL ENGINEERING
- LAND SURVEYING
- LANDSCAPE ARCHITECTURE

217 LAKE AVENUE
ROCHESTER, NY 14608
(585) 458-3020

Project Name and Address

AMHERST DEVELOPMENT PARK - BUILDING ADDITIONS

6000-6040 N. Bailey Avenue
Amherst, New York 14226

Drawing Name

OVERALL LANDSCAPE PLAN

Sheet	Drawing Number
1 OF 5	C-7.0
Date: 06/12/2024	
Scale: 1"=50'	

PLANT SCHEDULE

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	MATURE SIZE
EVERGREEN TREES						
71	Jv	JUNIPERUS VIRGINIANA 'EMERALD SENTINEL'	EASTERN RED CEDAR	6-8' HT.	BB	HT. 10-20', SP. 7-8'
43	To	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	6-8' HT.	BB	HT. 15', SP. 3-4'
ORNAMENTAL / DECIDUOUS TREES						
23	Ag	AMELANCHIER GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	6-8' HT.	BB	HT. 15-25', SP. 15-25'
24	Ar	ACER RUBRUM 'JFS-KW78'	ARMSTRONG GOLD MAPLE	2.5-3" CAL.	BB	HT. 30-40', SP. 10-12'
8	Cf	CORNUS FLORIDA	FLOWERING DOGWOOD	6-8' HT.	BB	HT. 15-30', SP. 15-30'
19	Fp	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY REDBUD	1.75-2" CAL.	BB	HT. 20-30', SP 20-30'
5	Gt	GLEDITSIA TRIACANTHOS INERM.	THORNLESS HONEY LOCUST	2.5-3" CAL.	BB	HT. 60-80', SP. 60-80'
21	Zs	ZELKOVA SERRATA 'CITY SPRITE'	CITY SPRITE ZELKOVA	2.5-3" CAL.	BB	HT. 45', SP. 15'
SHRUBS						
219	Am	ARONIA MELANOCARPA	LOWSCAPE MOUND CHOKEBERRY	NO. 3 (24" MIN)	CONT.	HT. 1-2', SP. 1.5-2'
68	Ig	ILEX GLABRA 'STRONG BOX'	STRONGBOX INKBERRY HOLLY	HT. 24" MIN	BB	HT. 2-3', SP. 2-3'
86	Iv	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	HT. 24" MIN	CONT.	HT. 3-5', SP. 4-6'
67	Ra	ROSA 'RADTKO'	DOUBLE KNOCKOUT ROSE	NO. 3 (24" MIN)	CONT.	HT. 2-5', SP. 6-8'
342	Rm	ROSA MEIGALPIO	RED DRIFT GROUNDCOVER ROSE	NO. 3 (24" MIN)	CONT.	HT. 1-1.5', SP. 2-2.5'
92	Sj	SPIRAEA JAPONICA 'GOLDMOUND'	GOLDMOUND SPIREA	HT. 24" MIN	CONT.	HT. 2-3', SP. 4'
104	Tx	TAXUS X MEDIA 'DENSIFORMIS'	DENSE SPREADING YEW	HT. 24" MIN	CONT.	HT. 3-4', SP. 4-6'
85	Vi	VIBURNUM CARLESII 'KOREAN SPICE'	KOREAN SPICE VIBURNUM	HT. 24" MIN	CONT.	HT. 3.5', SP. 4-5'
PERENNIALS & GRASSES						
205	Ca	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	NO. 2	CONT.	HT. 4-6', SP. 2'-3'
68	Ha	HAKONECHLOA MACRA 'ALL GOLD'	ALL GOLD JAPANESE FOREST GRASS	NO. 3	CONT.	HT. 1.5', SP. 1.5'
591	He	HEMEROCALLIS X 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	NO. 1	CONT.	HT. 1-1.5', SP. 1-1.5'
49	Ir	IRIS PALLIDA 'VARIEGATA'	VARIEGATED SWEET IRIS	BULB	CONT.	HT. 2', SP. 1'
332	Nf	NEPETA HYBRID 'CAT'S PAJAMAS'	CAT'S PAJAMA'S CATMINT	NO. 3	CONT.	HT. 18-20" SP. 18-20"
155	Pc	PANICUM VIRGATUM 'CHEYENNE SKY'	CHEYENNE SKY SWITCHGRASS	NO. 3	CONT.	HT. 2-3', SP. 1.5-2'
328	Pe	PENNISETUM ALOPECUROIDES 'LEMON SQUEEZE'	LEMON SQUEEZE FLOWERING FOUNTAIN GRASS	NO. 3	CONT.	HT. 2.5-3', SP. 2-2.5'
28	Pv	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCHGRASS	NO. 2	CONT.	HT. 3-4', SP. 3-4'
122	Ss	SEDUM 'AUTUMN JOY'	AUTUMN JOY STONE CROP SEDUM	NO. 2	CONT.	HT. 18-24", SP. 18-24"

ABBREVIATIONS:
BB=BALLED & BURLAPPED
BR=BARE ROOT
CAL.=CALIPER IN INCHES
CONT.=CONTAINER
HT.=HEIGHT
NO.#=GALLON SIZE
SP.=SPREAD

NOTES:
- CALIPER TO BE MEASURED 6" ABOVE GRADE
- PLANT SYMBOLS REPRESENT 2/3 MATURE SIZE

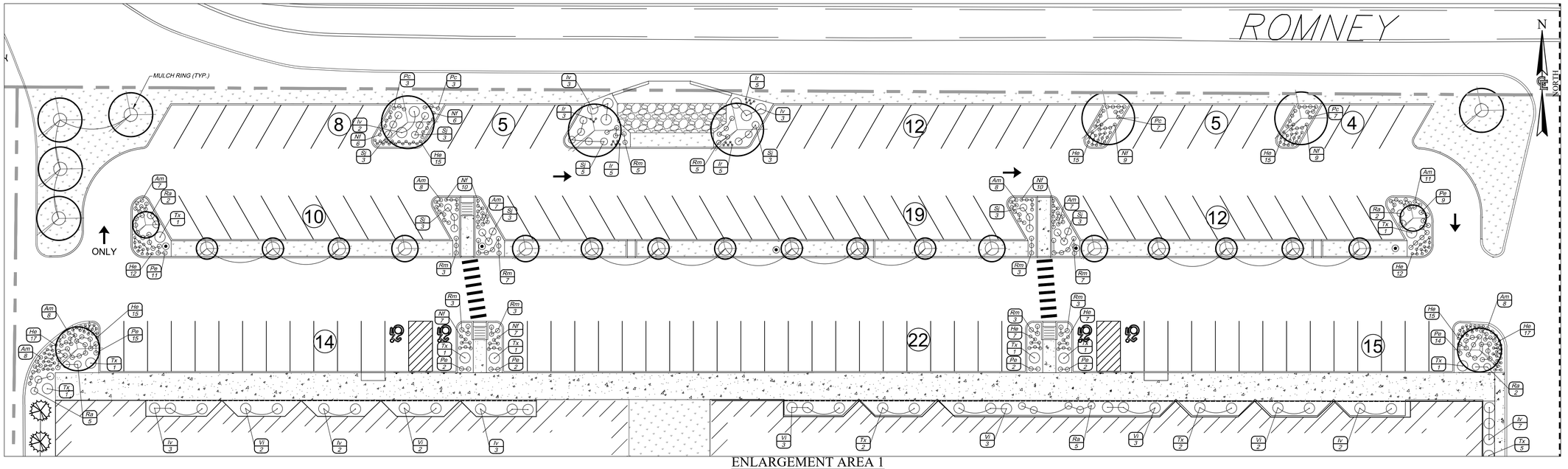
GREENSPACE CALCULATIONS

	EXISTING	REQUIRED	PROPOSED
TOTAL PARCEL AREA =	746,480 SF	--	(NO CHANGE)
TOTAL GREENSPACE AREA =	±182,069 SF(24.4%)	--	±110,211 SF (14.8%)

LANDSCAPE NOTES

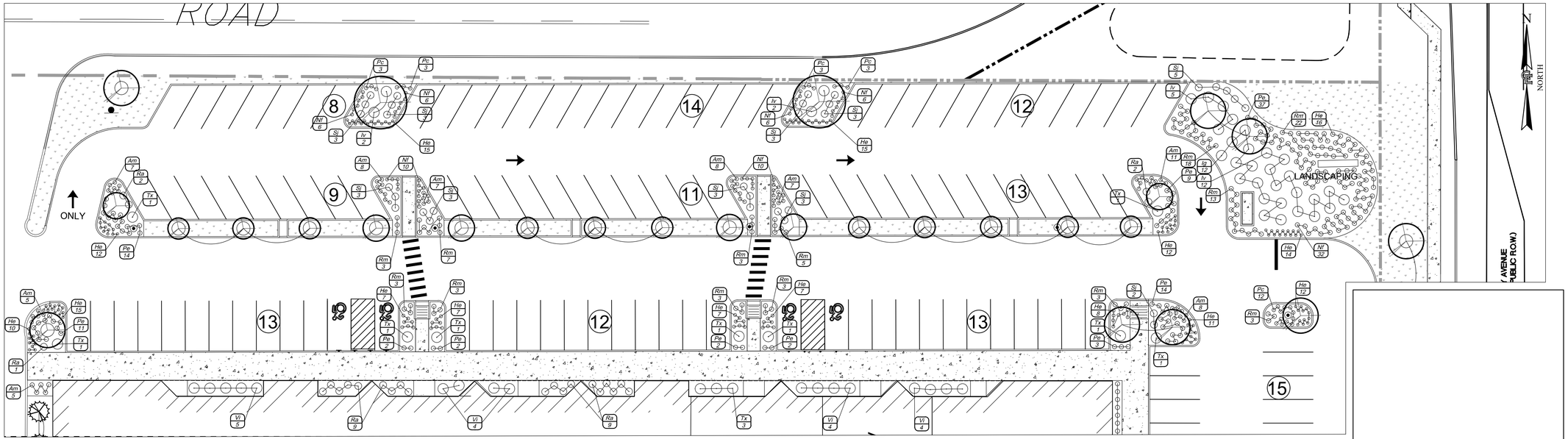
1. LANDSCAPE CONTRACTOR SHALL SECURE CURRENT PLANS AND SPECIFICATIONS FOR PROPER CONSTRUCTION METHODS AND MATERIAL OF ALL LANDSCAPING PRIOR TO COMMENCING WORK.
2. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60.1 (LATEST EDITION).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF.
4. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANT MATERIAL AND SHRUB-BEDS. CONTACT OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL. LOCATIONS SHOWN ON THE PLANS CONVEY DESIGN INTENT ONLY. ACTUAL LOCATIONS WILL BE AS DIRECTED BY THE LANDSCAPE ARCHITECT AT THE TIME OF INSTALLATION.
5. THE CONTRACTOR IS HEREBY NOTIFIED THAT UNDERGROUND UTILITIES EXIST. SHOULD LOCATION OF TREES BE WITHIN 5' OF UNDERGROUND UTILITIES, RELOCATE SAID TREES TO A MINIMUM OF 5' FROM BALL TO UTILITIES.
6. SHOULD LOCATION OF TREES BE WITHIN 20' OF OVERHEAD WIRES, RELOCATE SAID TREES TO A MINIMUM OF 20' FROM WIRES.
7. ALL TREES AND SHRUBS SHALL RECEIVE A 3" LAYER OF BLACK SHREDDED HARDWOOD BARK MULCH.
8. ALL PLANTS MUST BE HARDY UNDER CLIMATE CONDITIONS THAT EXIST AT THE PROJECT SITE AND GROWN AT A NURSERY AT THE SAME HARDINESS ZONE AS THE PROJECT LOCATION.
9. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER OR OWNER'S PROJECT LANDSCAPE ARCHITECT.
10. ANY PLANT WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY , AND SIZE MEETING ALL PLANT LIST SPECIFICATIONS.
11. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANT MATERIALS (INCLUDING, BUT NOT LIMITED TO WATERING, SPRAYING, MULCHING, FERTILIZING, AND REMOVAL OF STAKES AND GUYS) AND NEWLY ESTABLISHED LAWN AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
12. ALL AREAS DISTURBED BY UTILITY INSTALLATION AND SITE GRADING ACTIVITY SHALL RECEIVE 6" APPROVED TOPSOIL (TO A COMPACTED DEPTH OF 6", UNLESS OTHERWISE SPECIFIED BY THE GOVERNING MUNICIPALITY) BE FINE GRADES, SEEDED, MULCHED, AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
13. ANY IRRIGATION COMPONENT DAMAGED DURING SITE OR LANDSCAPE RENOVATIONS MUST BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
14. A ONE YEAR GUARANTEE SHALL BE PROVIDED ON ALL PLANT MATERIALS FROM THE DATE OF PROVISIONAL ACCEPTANCE.
15. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 3 PARTS TOPSOIL AND 1 PART COMPOST THOROUGHLY MIXED. PLANTING SOIL DEPTH SHALL BE 3' MINIMUM, AND BE FREE FROM CONSTRUCTION DEBRIS AND FOREIGN MATERIALS.
16. STAKE TREES IMMEDIATELY AFTER PLANTING.
17. LOCATIONS OF EXISTING BURIED UTILITIES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE WORK AREA. IF ANY TREE IS LOCATED CLOSER THAN 5' TO AN UNDERGROUND UTILITY, IT SHALL BE RELOCATED TO A LOCATION THAT IS A MINIMUM OF 5' AWAY AS MEASURED FROM THE ROOTBALL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, AND SITE APPURTENANCES, ETC., WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



ENLARGEMENT AREA 1

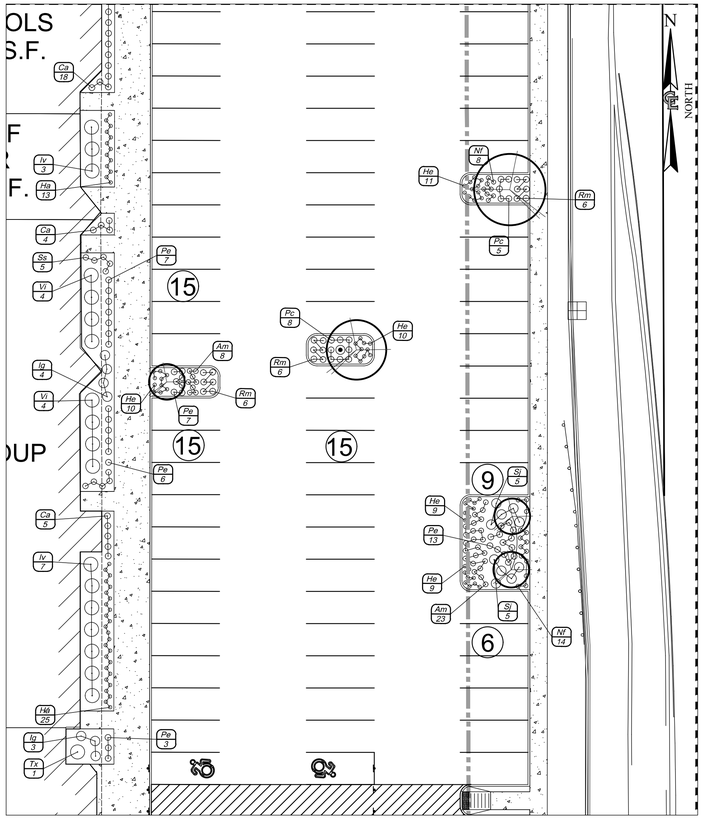
SCALE: 1" = 20'



ENLARGEMENT AREA 2

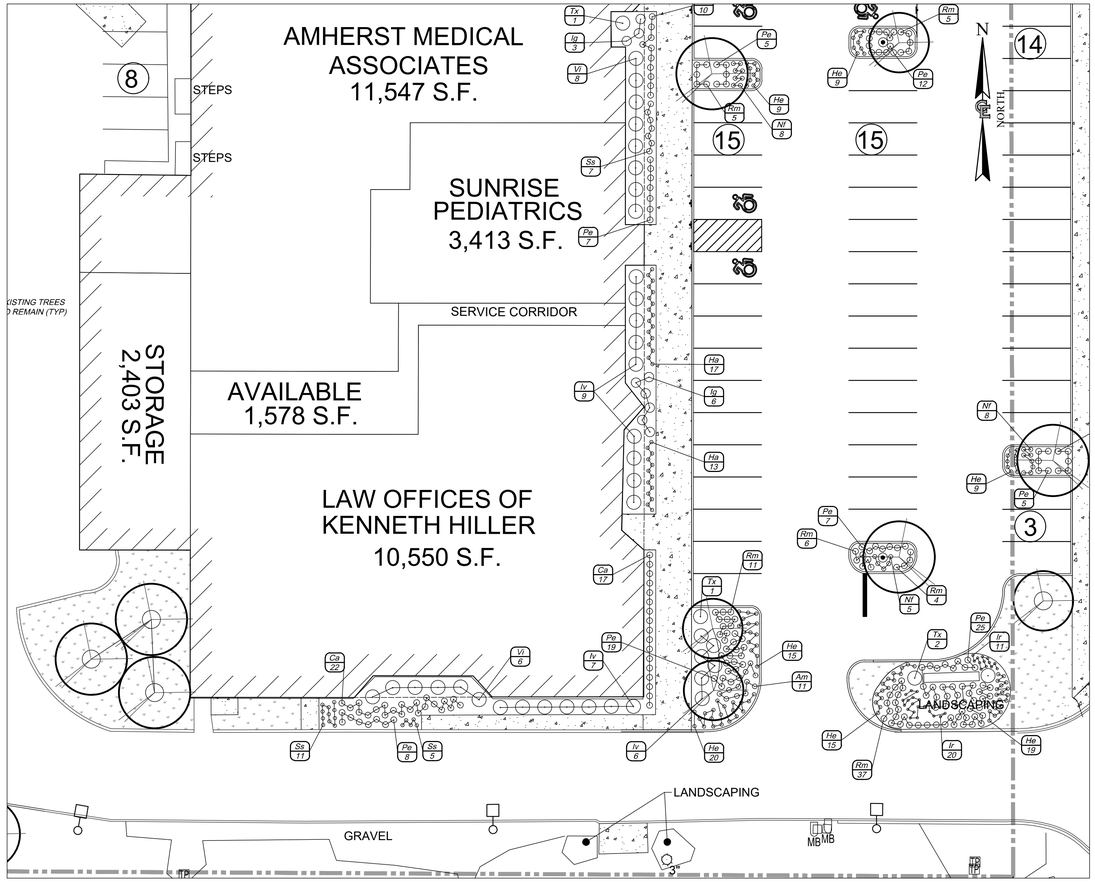
SCALE: 1" = 20'

| Revisions | | |



ENLARGEMENT AREA 3

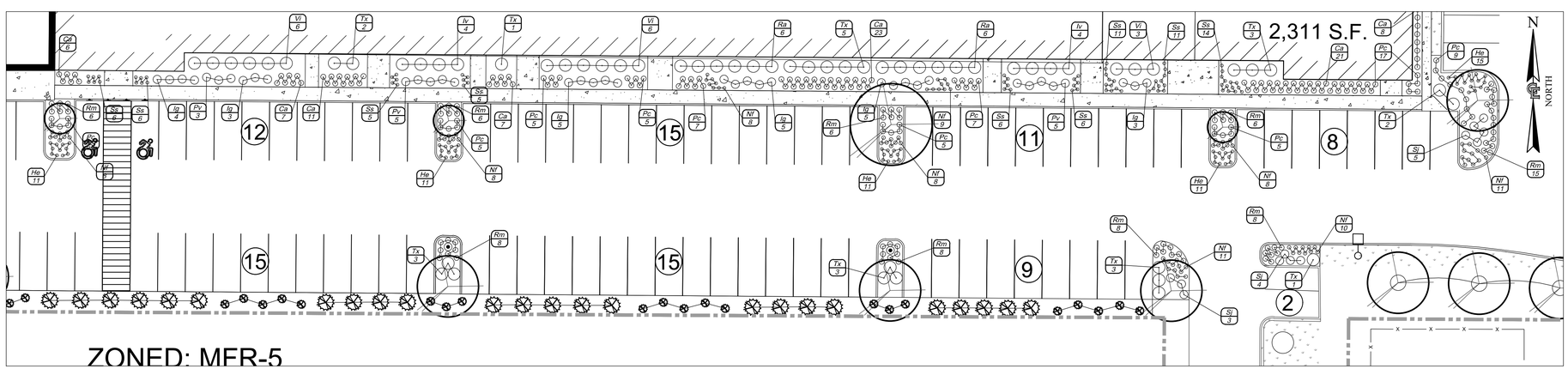
SCALE: 1" = 20'



ENLARGEMENT AREA 4

SCALE: 1" = 20'

MATCHLINE (SEE SHEET C-7.0)



ENLARGEMENT AREA 5

SCALE: 1" = 20'

No.	Revision/Issue	Date
01	Revised based on site plan changes	2024-08-21

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

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Applicant

BENDERSON DEVELOPMENT
570 DELAWARE AVE, BUFFALO, NY 14202
PHONE (716) 886-0211 FAX (716)-856-7791
WWW.BENDERSON.COM

PROJECT NO.: 1810

Landscape Architect's Seal

REGISTERED LANDSCAPE ARCHITECT
SARAH COSTICH
002574
STATE OF NEW YORK

Landscape Architect

COSTICH ENGINEERING
• CIVIL ENGINEERING
• LAND SURVEYING
• LANDSCAPE ARCHITECTURE
217 LAKE AVENUE
ROCHESTER, NY 14608
(585) 458-3020

Project Name and Address

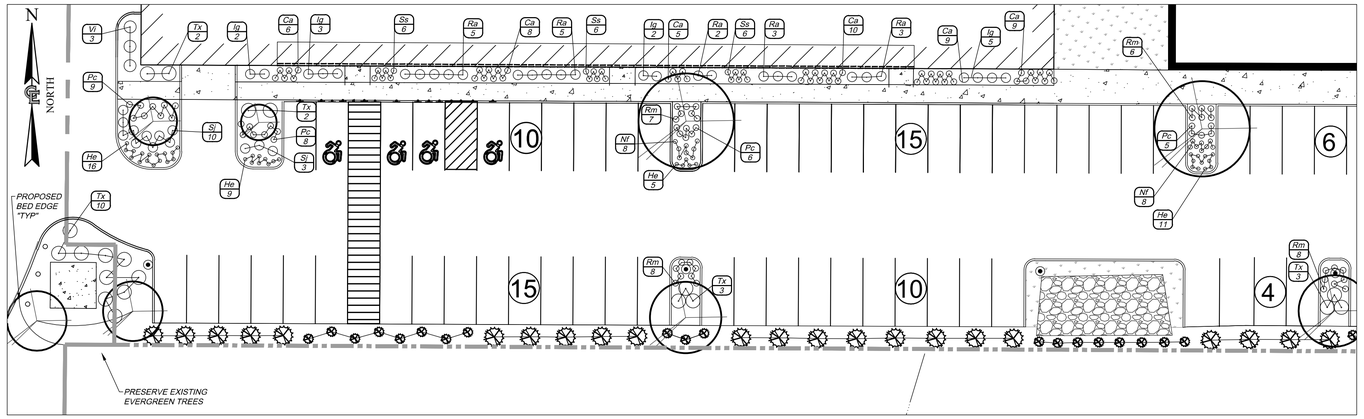
AMHERST DEVELOPMENT PARK - BUILDING ADDITIONS
6000-6040 N. Bailey Avenue
Amherst, New York 14226

Drawing Name

LANDSCAPE PLAN ENLARGEMENT AREAS

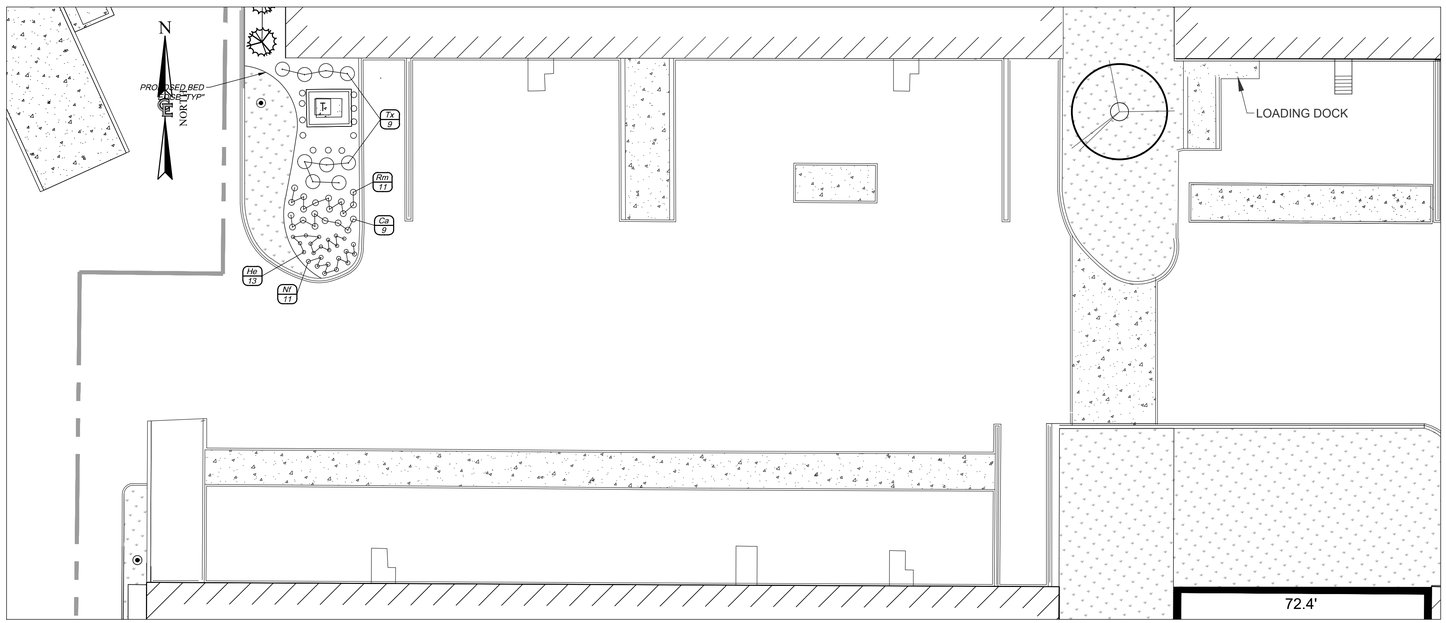
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3 OF 5	C-7.2
Date: 6/12/2024	
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Attachment: SP-1988-11P drawings updated 090924 091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



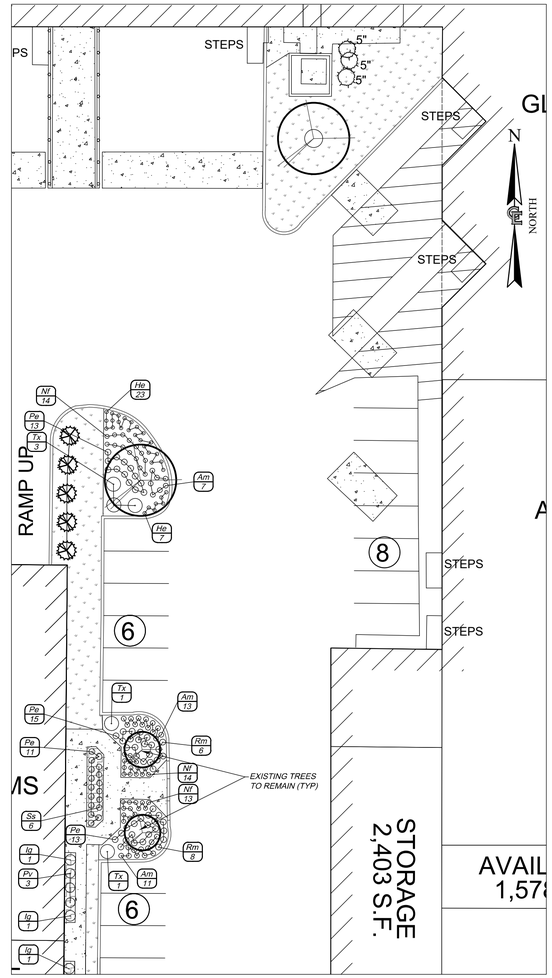
ENLARGEMENT AREA 6

SCALE: 1" = 20'



ENLARGEMENT AREA 7

SCALE: 1" = 20'



ENLARGEMENT AREA 8

SCALE: 1" = 20'

No.	Revision/Issue	Date
01	Revised based on site plan changes	2024-08-21

Revisions

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

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Applicant

BENDERSON DEVELOPMENT
570 DELAWARE AVE, BUFFALO, NY 14202
PHONE (716) 886-0211 FAX (716)-856-7791
WWW.BENDERSON.COM

PROJECT NO. 1810

Landscape Architect's Seal

REGISTERED LANDSCAPE ARCHITECT SARAH COSTICH 002574 STATE OF NEW YORK

Landscape Architect

COSTICH ENGINEERING
• Civil Engineering
• Land Surveying
• Landscape Architecture
217 Lake Avenue Rochester, NY 14608 (585) 458-3020

Project Name and Address

AMHERST DEVELOPMENT PARK - BUILDING ADDITIONS
6000-6040 N. Bailey Avenue
Amherst, New York 14226

Drawing Name

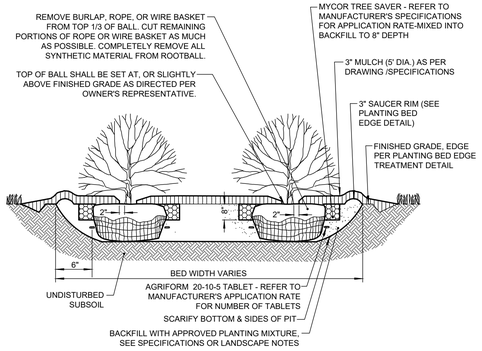
LANDSCAPE PLAN ENLARGEMENT AREAS

Sheet	Drawing Number
4 OF 5	C-7.3
Date: 6/12/2024	
Scale: 1"=20'	

Attachment: SP-1988-11P drawings updated 090924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

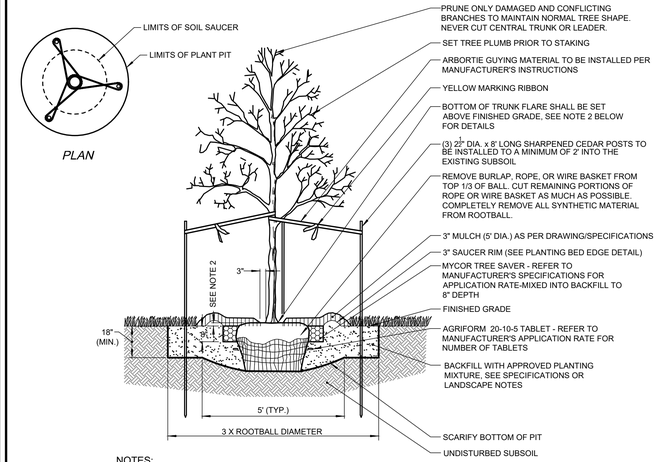
NOTES:

1. MAINTAIN A 2" MINIMUM RADIUS CLEAR OF MULCH AROUND THE TRUNK.
2. PLANTING BED DEPTH IN LAWN AREAS SHALL BE A MINIMUM OF 18" DEEP AND/OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. ALL PLANTING BEDS SHALL BE FREE OF CONSTRUCTION DEBRIS.
4. IF BARE ROOT PLANT MATERIAL IS SPECIFIED IN THE PLANT SCHEDULE, SEE LANDSCAPE NOTES ON SHEET LA100 FOR ADDITIONAL INFORMATION.



SHRUB PLANTING DETAIL

NOT TO SCALE

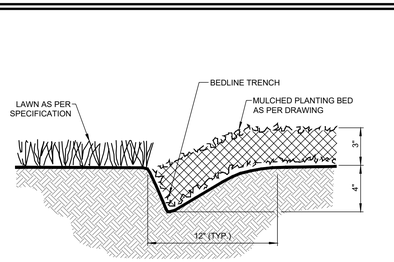


NOTES:

1. MAINTAIN A 3" MINIMUM RADIUS CLEAR OF MULCH AROUND THE TRUNK.
2. THE DISTANCE BETWEEN THE BOTTOM OF THE TRUNK FLARE AND THE FINISHED GRADE SHALL BE AS FOLLOWS:
   FOR SANDY OR LOAMY SOILS: 1"
   FOR CLAY OR POORLY DRAINED SOILS: 3"
   THE CONTRACTOR SHALL REVIEW THE APPROPRIATE PLANTING DEPTH WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. WHEN TAGGING TREES AT THE NURSERY, MARK THE NORTH SIDE OF THE TREE IN THE FIELD AND WHEN INSTALLING, ROTATE TREE TO FACE NORTH WHENEVER POSSIBLE
4. IF BARE ROOT PLANT MATERIAL IS SPECIFIED IN THE PLANT SCHEDULE, SEE LANDSCAPE NOTES ON SHEET LA100 FOR ADDITIONAL INFORMATION.

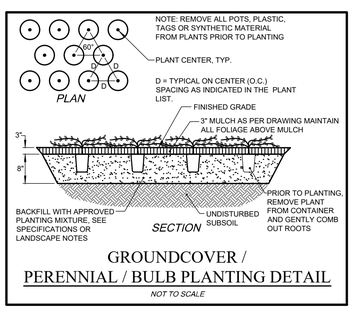
DECIDUOUS TREE PLANTING LESS THAN 4" CAL. DETAIL

NOT TO SCALE



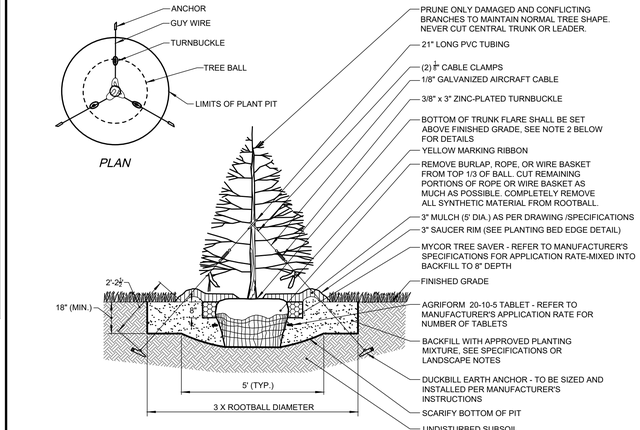
PLANTING BED EDGE TREATMENT DETAIL

NOT TO SCALE



GROUNDCOVER / PERENNIAL / BULB PLANTING DETAIL

NOT TO SCALE

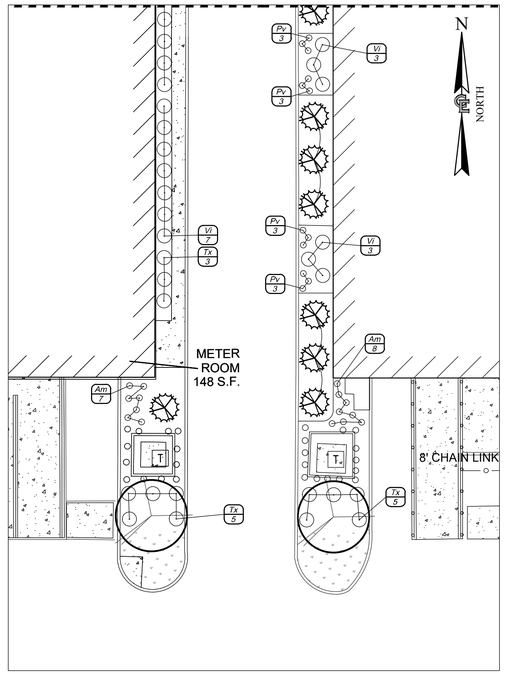


NOTES:

1. MAINTAIN A 2" MINIMUM RADIUS CLEAR OF MULCH AROUND THE TRUNK.
2. THE DISTANCE BETWEEN THE BOTTOM OF THE TRUNK FLARE AND THE FINISHED GRADE SHALL BE AS FOLLOWS:
   FOR SANDY OR LOAMY SOILS: 1"
   FOR CLAY OR POORLY DRAINED SOILS: 3"
   THE CONTRACTOR SHALL REVIEW THE APPROPRIATE PLANTING DEPTH WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. WHEN TAGGING TREES AT THE NURSERY, MARK THE NORTH SIDE OF THE TREE IN THE FIELD AND WHEN INSTALLING, ROTATE TREE TO FACE NORTH WHENEVER POSSIBLE
4. IF BARE ROOT PLANT MATERIAL IS SPECIFIED IN THE PLANT SCHEDULE, SEE LANDSCAPE NOTES ON SHEET LA100 FOR ADDITIONAL INFORMATION.

EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE



ENLARGEMENT AREA 9

SCALE: 1" = 20'

No.	Revision/Issue	Date
01	Revised based on site plan changes	2024-08-21

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

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Applicant

BENDERSON DEVELOPMENT
570 DELAWARE AVE, BUFFALO, NY 14202
PHONE (716) 886-0211 FAX (716)-856-7791
WWW.BENDERSON.COM

PROJECT NO. 1810

Landscape Architect's Seal

REGISTERED LANDSCAPE ARCHITECT SARAH COSTICH ON 00257A STATE OF NEW YORK

Landscape Architect

COSTICH ENGINEERING
• CIVIL ENGINEERING
• LAND SURVEYING
• LANDSCAPE ARCHITECTURE
217 LAKE AVENUE ROCHESTER, NY 14608 (585) 458-3020

Project Name and Address

AMHERST DEVELOPMENT PARK - BUILDING ADDITIONS

6000-6040 N. Bailey Avenue
Amherst, New York 14226

Drawing Name

LANDSCAPE PLAN ENLARGEMENT AREAS & DETAILS

Sheet	Drawing Number
5 OF 5	C-7.4
Date: 6/12/2024	
Scale: 1"=20'	

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

ROMNEY ROAD

AVAILABLE
26,709 S.F.

PROPOSED
BENDERSON DEVELOPMENT
36,142 S.F.

METER ROOM 148 S.F.

LOADING DOCK

OERLIKON METCO
29,673 S.F.

AVAILABLE 3,600 S.F.

ROTHSTEIN ACQUISITIONS 3,000 S.F.

CONTROLS 3,224 S.F.

DEPT OF LABOR 2,094 S.F.

SERVICE CORRIDOR 800 S.F.

6' CHAIN LINK FENCE

GLOBAL VENDING GROUP
18,248 S.F.

AMHERST MEDICAL ASSOCIATES
11,547 S.F.

SUNRISE PEDIATRICS
3,413 S.F.

SERVICE CORRIDOR

AVAILABLE
1,578 S.F.

LAW OFFICES OF KENNETH HILLER
10,550 S.F.

STORAGE
2,403 S.F.

Existing Lighting

DOCK AREA

RAMP UP

PROPOSED

SOAP PLANT
14,727 SF

WAREHOUSE
19,905 SF

Proposed Addition
10,069 S.F.

FFE: 579.0±

72.4'

140.0'

FABRICATION
Existing Available
43,805 S.F.

WINDOW DECOR
4,020 S.F.

McANN SYSTEMS
7,455 S.F.

AVAILABLE
2,311 S.F.

GRAVEL

LANDSCAPING

RIP-RAP

HEADWALL

N/F
BOULEVARD TOWERS ASSOCIATES LLC
T.A.# 54.14-1-12.11
100 MEYER ROAD
L:11345 P:3418

N/F
BOULEVARD TOWERS ASSOCIATES LLC
T.A.# 54.14-1-13.2
120 MEYER ROAD

N/F
UNITED STATES POSTAL SERVICE
T.A.# 54.14-1-17.2
5500 NORTH BAILEY AVENUE
L:9795 P:412

OFFICIAL TOWN USE ONLY

Luminaire Schedule

Index	Manufacturer	Luminaire type	Item number	Lumens per Fixture	Mounting Height **	Fixture Watts	Quantity
	Cree	Cree Lighting OSQ Series Area Luminaire, Type 5M, 180W Input Power Designator, 4000K Double Head Fixtures	OSQL-C-30L-40K7-5M-UL-NM-BK	30,000 lm	25 Ft	180 W	13
	Cree	Cree Lighting OSQ Series Area Luminaire, Type 3M, 180W Input Power Designator, 4000K Double Head Fixtures with backlight shield	OSQL-C-30L-40K7-3M-UL-NM-BK w/ OSQ-L-C-BLSF	19,600 lm	25 Ft	180 W	6

*Relocated Poles shall reuse existing LED Fixtures
**Mounting Heights are measured from Finished Grade

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	12.13.2023	DZ	POND UPDATES
2	05.08.2024	DZ	Site Plan Update
4	07.31.2024	DZ	Site Updates
5	08.12.2024	DZ	Site Updates

SPECIAL INFORMATION:

ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ANY AND ALL STRUCTURES.

NOTICE

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NORTH

811 Know what's below. Call before you dig.

PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

REGISTERED ARCHITECT JAMES ALLEN RUMSEY 029109 STATE OF NEW YORK

TITLE:

Site Lighting Plan

SCALE: 1:70
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO. C8.00

Attachment: SP-1988-11P_drawings updated 090924_091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort™ Technology – Version C

Rev. Date: V3 04/17/2023

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. Medium is suitable upgrade for HID applications up to 400 Watts. Large is suitable upgrade for HID applications up to 1000 Watts. Extra Large is suitable upgrade for HID applications up to multiple 1000 Watts.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, high-mast and internal roadways

Performance Summary

Utilizes Patented NanoComfort™ Technology

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

Assembled in the USA by Cree Lighting from US and imported parts

Initial Delivered Lumens: 4,000 - 75,000

Efficacy: Up to 171 LPW

CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty*: 10 years for luminaire; 10 years for Colorfast DeltaGuard® finish; 5 years for BML sensor; up to 5 years for Synapse® accessories; 1 year for luminaire accessories

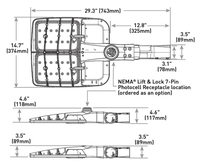
*See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Ordering Information

Fully assembled Luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-ML-C-AA-BK + **Luminaire:** OSQM-C-4L-30K7-2M-UL-NM-BK

OSQM - AA Mount





Luminaire	Weight
OSQM	19.3 lbs. (8.8kg)

Note: For OSQL, OSQX and additional mounts, refer to drawings beginning on page 26.

Mount (Luminaire must be ordered separately)*

OSQ-

Medium/Large Mounts
OSQ-ML-C-AA Adjustable Arm
OSQ-ML-C-DA Direct Arm
OSQ-ML-C-TM Trunnion Mount

Extra Large Mounts
OSQ-X-C-AA Adjustable Arm
OSQ-X-C-DA Direct Arm

Color Options: **SV** Silver, **BK** Black, **BZ** Bronze, **WH** White

* Reference fixture mounting drill pattern, EPA, and pole configuration suitability data beginning on page 14.

Luminaire (Must must be ordered separately)

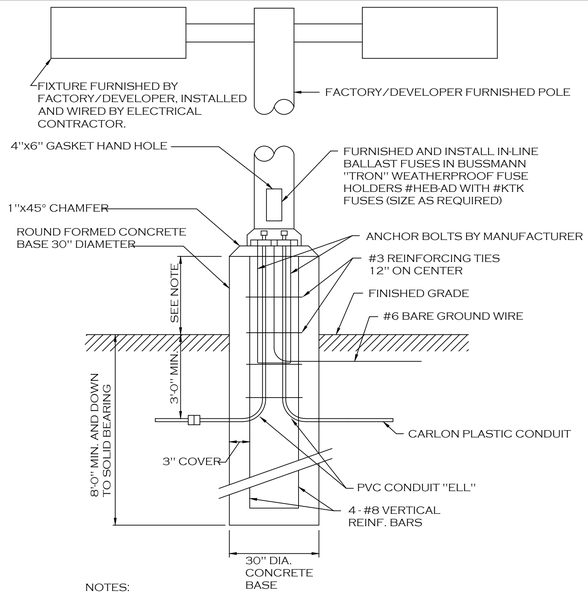
OSQ | **C**

Family	Size	Series	Lumen Package*	CCT/ CRI	Optic	Voltage	Mount	Color Options	Controls*	Options
OSQ	**M** Medium **L** Large **X** Extra Large	**C**	**Medium** **4L** 4,000 Lumens **6L** 6,000 Lumens **9L** 9,200 Lumens **11L** 11,000 Lumens **16L** 16,000 Lumens **Large** **22L** 22,000 Lumens **30L** 30,000 Lumens **40L** 40,000 Lumens **Extra Large** **50L** 50,000 Lumens **65L** 65,000 Lumens **75L** 75,000 Lumens	**30K7** 3000K, 70 CRI **40K7** 4000K, 70 CRI **50K7** 5000K, 70 CRI **57K7** 5700K, 70 CRI	**Asymmetric** **2M** Type II Mid Type II Mid w/ Factory-Installed Backlight Shield **3M** Type III Mid Type III Mid w/ Factory-Installed Backlight Shield **4M** Type IV Mid **Symmetric** **5M** Type V Mid **5N** Type V Narrow **4B** Type IV Mid w/ Factory-Installed Backlight Shield **AF** Automotive FrontlineOptic™ **AB** Automotive FrontlineOptic™ w/Factory-Installed Backlight Shield **33** NEMA® 3x3 **44** NEMA® 4x4 **55** NEMA® 5x5 **66** NEMA® 6x6 **77** NEMA® 7x5	**UL** Universal, 120-277V **UH** Universal, 347-480V - Not available with 4L, 40L or 75L lumen packages **UE** Universal, 277-480V - Available with 40L and 75L lumen packages	**NM** No Mount - Must specify mount from table above - Mount ordered separately	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**BML** **Bluetooth® Technology Enabled Multi-Level Sensor** - Utilizes a multifunction sensor - Refer to BML spec sheet for details - 20-40' sensor lens installed on luminaire; 8-20' sensor lens and aisle shroud included - Intended for downlight applications - Not UL listed - Not available with Q or X options or Synapse TLT-B2 or TLT-HVO accessories **09/08/07/06/05/04/03/02/01 Field Adjustable Output** - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 15-25 for power and lumen values - Not available with BML or X options or Synapse TLT-B2 or TLT-HVO accessories **XB/X7/X4/X5/X6/X3/X2/X1 Locked Lumen Output** - Must select XB, X7, X6, X5, X4, X3, X2, or X1 - Not available with BML or Q options - X7 option not available with the following lumen package/voltage offerings: 9L/UL, 16L/UL, 16L/UH, 30L/UL, 30L/UH, 40L/UL, 65L/UL, 65L/UH - X2 option not available 9L/UL lumen package/voltage - Lumen output is permanently locked to the setting selected - Refer to pages 15-25 for power and lumen values	**20KV** **20kV/10kA Surge Suppression** - Replaces standard 10kV/5kA surge protection **F** **Fuse** - Compatible with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - When code dictates fusing, use time delay fuse **N** **Factory Installed NEMA® Lift & Lock 7-Pin Photocell Receptacle** - External utility label per ANSI C136.15-2020 - 7-pin receptacle per ANSI C136.41 - Available only with OSQM & OSQL luminaires - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - Requires photocell or shorting cap by others **NEMA® Lift & Lock 7-Pin Photocell Receptacle** **R** **Rotate Right** - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - Requires photocell or shorting cap by others - Refer to page 2 for compatible Synapse control offerings **RL** **Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 26 for optic directionality - Not for use with symmetric optics **RR** **Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 26 for optic directionality - Not for use with symmetric optics

* Lumen Package codes identify approximate light output only. Actual lumen output levels vary by CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values
* Luminaire comes standard with 0-10V dimming

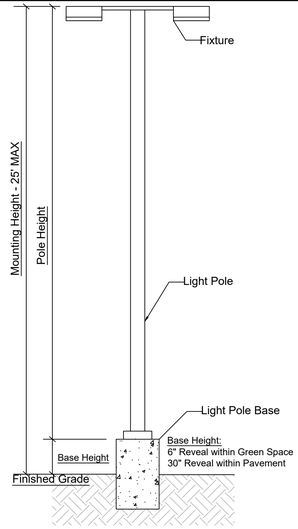
US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE ⇕ LIGHTING®



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



Light Pole Mounting

OFFICIAL TOWN USE ONLY

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
1	12.13.2023	DZ	POND UPDATES
4	07.31.2024	DZ	Site Updates

SPECIAL INFORMATION:

ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ANY AND ALL STRUCTURES.

NOTICE

UNAUTHORIZED ALTERATIONS OF THIS DOCUMENT ARE IN VIOLATION OF SECTION #7209 OF THE STATE EDUCATION LAW.

Know what's below. Call before you dig.

PROPERTY NUMBER: #1723

AREA: -

Amherst Development Park
6000 - 6040 North Bailey Ave
Amherst, NY 14226

PROPOSED SITE MODIFICATIONS

CONSULTANT

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

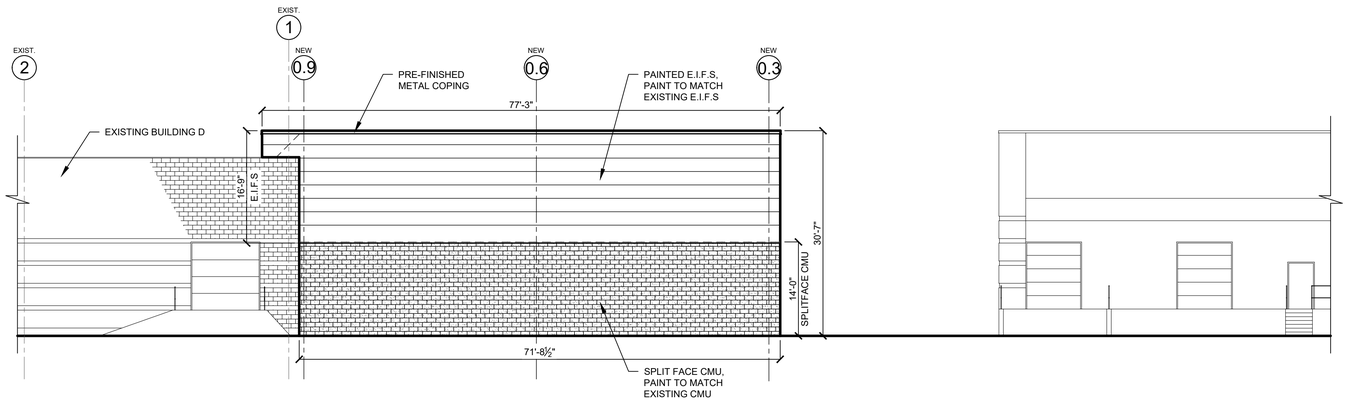
SEAL



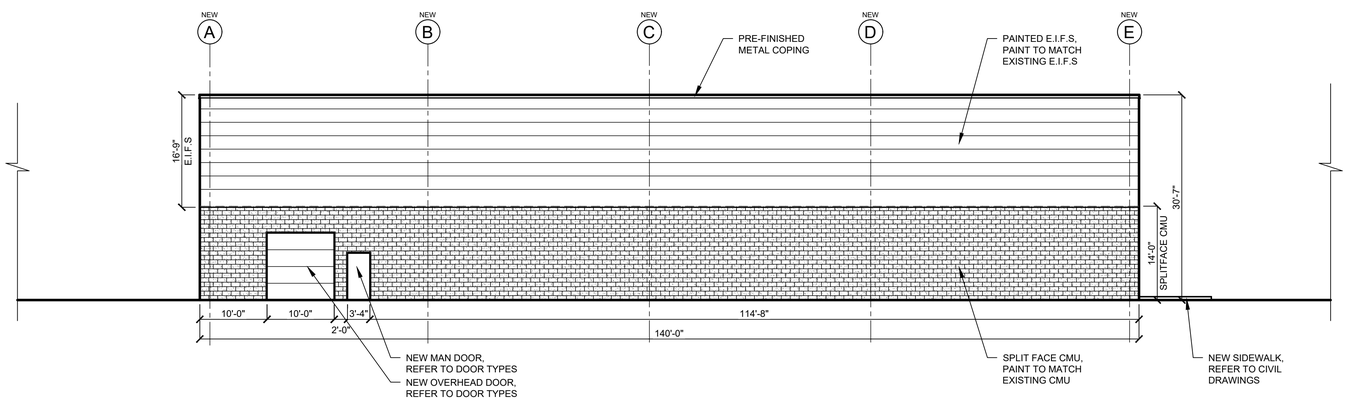
TITLE:
Lighting Details

SCALE: NTS
DRAWN BY: DMZ
CHECKED BY: MAO
DATE: 08.16.2023
DRAWING NO.: C8.10

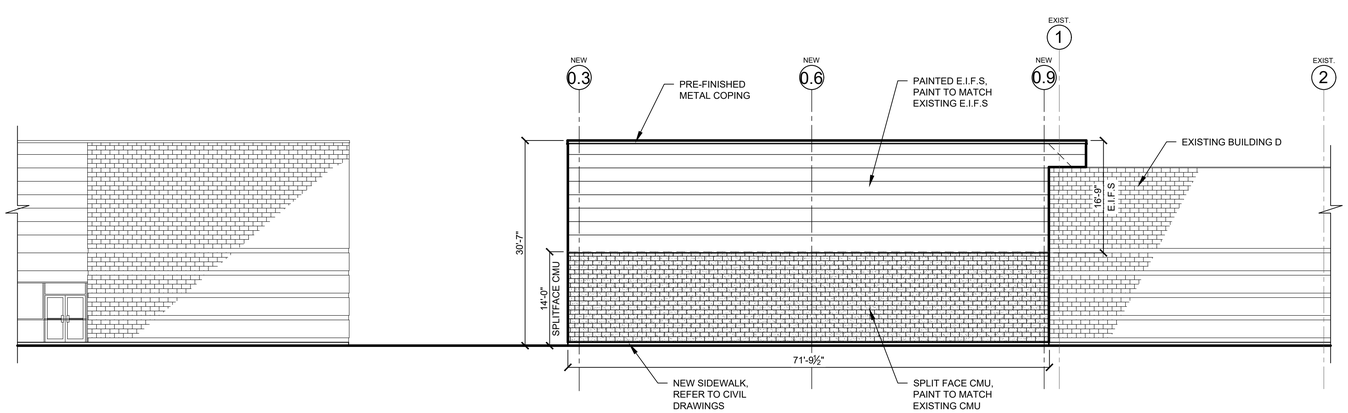
Attachment: SP-1988-11P_drawings updated 090924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)



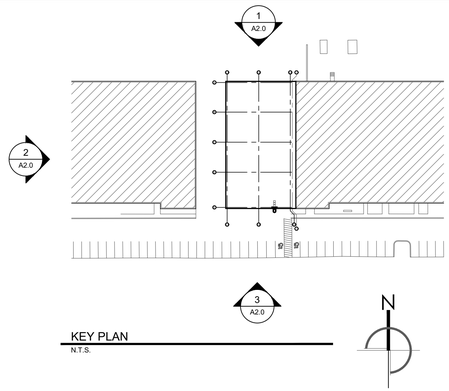
1 SOUTH ELEVATION
SCALE: 3/32"=1'-0"



2 WEST ELEVATION
SCALE: 3/32"=1'-0"



3 NORTH ELEVATION
SCALE: 3/32"=1'-0"



KEY PLAN
N.T.S.

DRAWING REVISIONS:

No.	DATE	BY	REMARKS
-	-	-	-

SPECIAL INFORMATION:

THIS DRAWING PREPARED FOR TENANT IMPROVEMENTS TO AN EXISTING BUILDING OR BUILDING CONSTRUCTED BY OTHERS IT IS UNDERSTOOD THAT ANY WARRANTY INFORMATION CONCERNING EQUIPMENT INSTALLED MUST BE FORWARDED TO THE OWNER AND THAT ANY AND ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

NOTICE

UNAUTHORIZED ALTERATIONS OF THIS DOCUMENT ARE IN VIOLATION OF SECTION #7209 OF THE STATE EDUCATION LAW.

PROPERTY NUMBER: -

AREA: - SF

AMHERST DEVELOPMENT PARK
6000 - 6040 NORTH BAILEY AVE
AMHERST, NY 14226

BUILDING D EXPANSION

CONSULTANT:

JAMES ALLEN RUMSEY
ARCHITECT
PREPARED FOR
BENDERSON DEVELOPMENT
570 DELAWARE AVE., BUFFALO, NY 14202
(716) 886-0211

SEAL

TITLE:

EXTERIOR ELEVATIONS

DRAWN BY: RKT
CHECKED BY: JAR
DATE: 00.00.00

DRAWING NO.
A2.0

Attachment: SP-1988-11P drawings updated 090924 091924 (28252 : SP-1988-11P, 6000-6020 N. Bailey Ave)

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

Meeting: 10/17/24 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: 29454

ADOPTED

PLANNING BOARD ITEM (ID # 29454)

Proposed Audubon Golf Course - Driving Range Improvements, SP-1993-13C

Property located at 500 Maple Road
Town of Amherst, Petitioner

Proposal to remove existing netting system and install a new 700’ long wooden pole supported netting system with a maximum height of 60’ on the east and west side of the golf driving range**.**

Michael Hitzel, Architect, Town of Amherst Engineering Department, represented the petitioner, explained the proposal and was available to answer questions from the Board.

In response to the Board's questions, Mr. Hitzel stated the height of the proposed netting and poles is the recommendation of a golf architect and that there is currently no fencing near one of the golf course holes.

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

Following discussion, Mr. Giuliani moved to approve the Negative Declaration. The motion was seconded by Mr. Raffaele and carried. Ayes 5, Noes 0, Absent 2 (Gill, Kahn).

Following the approval of the Negative Declaration, Mr. Giuliani moved to approve the request based on the resolution. The motion was seconded by Mr. Davis and carried. Ayes 5, Noes 0, Absent 2 (Gill, Kahn).

ATTACHMENTS:

- SP-1993-13_C_application_101724 (PDF)
- SP-1993-13_C_drawings_10172024 (PDF)
- SP-1993-13C signed neg dec 101724 (PDF)
- SP-1993-13C signed resolution 101724 (PDF)

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Dal Giuliani, Board Member
SECONDER:	John B. Davis, Board Member
AYES:	Chmiel, Davis, Giuliani, Penberthy, Raffaele Jr.
ABSENT:	Harbinder Gill, Carrie H. Kahn

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: Town of Amherst Engineering Department - Michael Hitzel

Address: 1100 North Forest Road

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

Phone: 716-631-7154 Fax: 716-631-7222

E Mail: mhitzel@amherst.ny.us

Attachment: SP-1993-13_C_application_101724 (29454 : SP-1993-13C, 500 Maple Rd.)

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

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

Name: Michael Hitzel

Address: Town of Amherst Engineering Department

1100 North Forest Road

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

Phone: 716-631-7154 x 7069 Fax: 716-631-7222

E Mail: mhitzel@amherst.ny.us

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

Address: 500 Maple Road

Amherst, NY 14221

SBL No(s): 55.04-1-6.11

Project Name: Audubon Golf Course Driving Range Netting

Project Description: Removal of the existing steel post and netting system currently located at the range. Installation of new wood support poles at heights of 40'-0" and 60'-0" spaced 50'-0" on center along the East and West sides of the golf range. A new netting system will be attached to the wood support poles. Total length of new netting along the East side is 700'-0" and along the West side is 700'-0".

Attachment: SP-1993-13_C_application_101724 (29454 : SP-1993-13C, 500 Maple Rd.)

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):

N/A

	existing	proposed	total
Gross Floor Area (non-residential):	N/A	N/A	N/A
Gross Floor Area Residential:	N/A	N/A	N/A
Number of Residential Units:	N/A	N/A	N/A
Number of Parking Spaces:	288	0	288

Acreage of Parcel: 228 acres

(list each parcel separately)

Frontage on Public Roads: 2,694 feet - Maple Road

(list each road separately)

Existing Zoning District(s) RC - Recreation Conservation

Attachment: SP-1993-13_C_application_101724 (29454 : SP-1993-13C, 500 Maple Rd.)

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
La: Lakemont silt loam	Sever: wetness, too clayey	Sever: wetness	Sever: wetness	Sever: wetness	Sever: wetness, low strength
Od: Odessa silt loam	Sever: wetness, too clayey	Sever: wetness, low strength, frost action	Sever: wetness, low strength	Sever: wetness, low strength, frost action	Sever: low strength, frost action
SaB: Schoharie silt loam	Sever: wetness, too clayey	Sever: low strength	Sever: wetness, low strength	Sever: low strength	Sever: low strength

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:
   <u>500 Maple Road, +/- 228 acres surround the project area</u>._____
   _____

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 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 <u>to remain as is</u>.
   Source: <u>No increase as golf range is remaining the same size just netting is being replace</u>.
   _____

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:
   _____N/A_____ average flow _____N/A_____ 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: SP-1993-13_C_application_101724 (29454 : SP-1993-13C, 500 Maple Rd.)

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

Town of Amherst Engineering Department

Name of Action or Project:
Audubon Golf Course Driving Range Netting

Project Location (describe, and attach a location map):
500 Maple Road, Amherst, NY 14221

Brief Description of Proposed Action:
Removal of existing steel post and netting system. Installation of new wood support post at heights of 40'-0" and 60'-0" spaced 50'-0" o.c. along the East and West Sides of the golf range. A new netting system will be attached to the wood support poles. Total length of new netting will be 1400 feet between the East and West sides.

Name of Applicant or Sponsor:	Telephone: 716-631-7154 ext 7069
Michael Hitzel	E-Mail: mhitzel@amherst.ny.us

Address:		
1100 North Forest Road		
City/PO: Williamsville	State: NY	Zip Code: 14221

	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:	☑	☐

3. a. Total acreage of the site of the proposed action? .41 acres
   b. Total acreage to be physically disturbed? .41 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 228 acres

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

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

Attachment: SP-1993-13_C_application_101724 (29454 : SP-1993-13C, 500 Maple Rd.)

	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?	☐	☑
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?	NO	YES
If Yes, identify: _____	☑	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES
	☑	☐
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?	☐	☑
9. Does the proposed action meet or exceed the state energy code requirements?	NO	YES
If the proposed action will exceed requirements, describe design features and technologies: _____ _____	☐	☑
10. Will the proposed action connect to an existing public/private water supply?	NO	YES
If No, describe method for providing potable water: _____ Project does not have any new water supply requirements	☑	☐
11. Will the proposed action connect to existing wastewater utilities?	NO	YES
If No, describe method for providing wastewater treatment: _____ Project does not have any wastewater generation needing wastewater utilities	☑	☐
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?	NO	YES
	☑	☐
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?	☐	☑
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?	NO	YES
	☐	☑
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-1993-13_C_application_101724 (29454 : SP-1993-13C, 500 Maple Rd.)

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: _____ _____		
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: _____ _____	☑	☐
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: Michael Hitzel, AIA LEED AP Date: 09/05/24

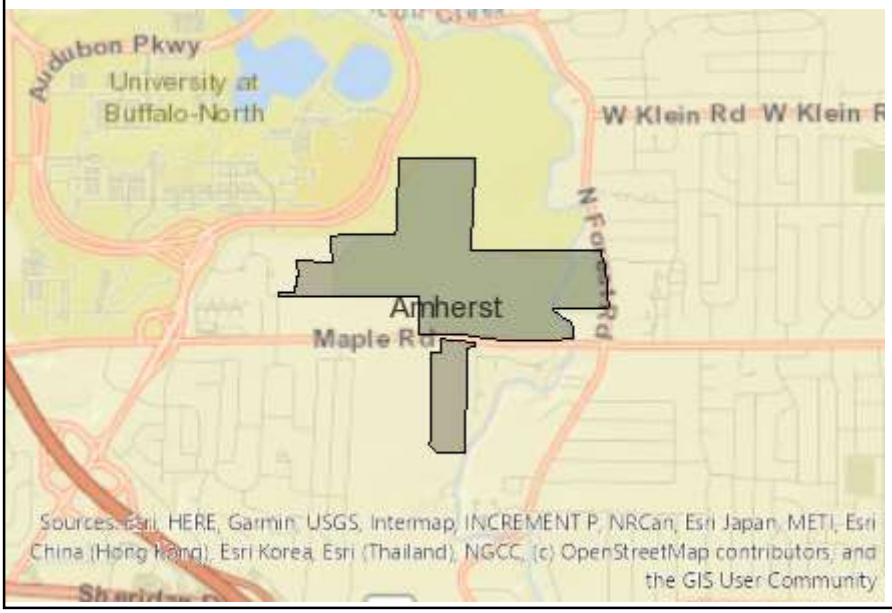
Signature: _____ Title: Project Architect

Attachment: SP-1993-13_C_application_101724 (29454 : SP-1993-13C, 500 Maple Rd.)

PRINT FORM

EAF Mapper Summary Report

Thursday, September 5, 2024 3:09 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]	Yes
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]	Yes

Attachment: SP-1993-13_C_application_101724 (29454 : SP-1993-13C, 500 Maple Rd.)

TOWN OF AMHERST

ERIE COUNTY **NEW YORK**

AUDUBON GOLF COURSE DRIVING RANGE NETTING

Town Supervisor
Brian J. Kulpa, RA

Town Councilmembers
Jacqualine G. Berger
Angela Marinucci
Shawn A. Lavin
Michael Szukala

Town Engineer
Jeffrey S. Burroughs, P.E.

Supt. of Highways
Steven Floss

Senior Deputy Town Attorney
Samuel Alba

TOWN JOB NO. 2000.085I

DRAWING INDEX

SHEET NO.	DWG. NO.	DESCRIPTION
1	T	TITLE PAGE
2	C-1	OVERALL SITE PLAN
3	C-2	SITE AND LANDSCAPE PLAN- EXISTING CONDITIONS
4	C-3	SITE PLAN - PROPOSED WORK
5	C-4	EXISTING GRADING AND DETAILS

SITE PLAN APPROVAL
09/05/2024

REGISTERED ARCHITECT
MICHAEL J. HITZEL
039045
STATE OF NEW YORK

TOWN OF AMHERST
ENGINEERING DEPARTMENT
5583 MAIN STREET
WILLIAMSVILLE, NY 14221
PHONE: (716) 631-7051

AUDUBON GOLF COURSE DRIVING RANGE NETTING

TITLE SHEET

FIELD CREW:
DRAWN BY: MJH
JOB NO. 2000.085I
CHECKED BY: BJA
CHECKED BY:
SCALE: AS NOTED
DATE: 09/05/24

REVISIONS

	BY	DATE

DWG. NO.
T
SHT. NO. 1 OF 5

Attachment: SP-1993-13_C_drawings_10172024 (29454 : SP-1993-13C, 500 Maple Rd.)



0 200' 400'
SCALE IN FEET

REGISTERED ARCHITECT
MICHAEL J. HITZEL
039045
STATE OF NEW YORK

TOWN OF AMHERST
ENGINEERING DEPARTMENT
5583 MAIN STREET
WILLIAMSVILLE, NY 14221
PHONE: (716) 631-7051

AUDUBON GOLF COURSE DRIVING RANGE NETTING

OVERALL SITE PLAN

FIELD CREW:	
DRAWN BY:	MJH
JOB NO.	2000.0851
CHECKED BY:	BJA
CHECKED BY:	
SCALE:	AS NOTED
DATE:	09/05/24

REVISIONS

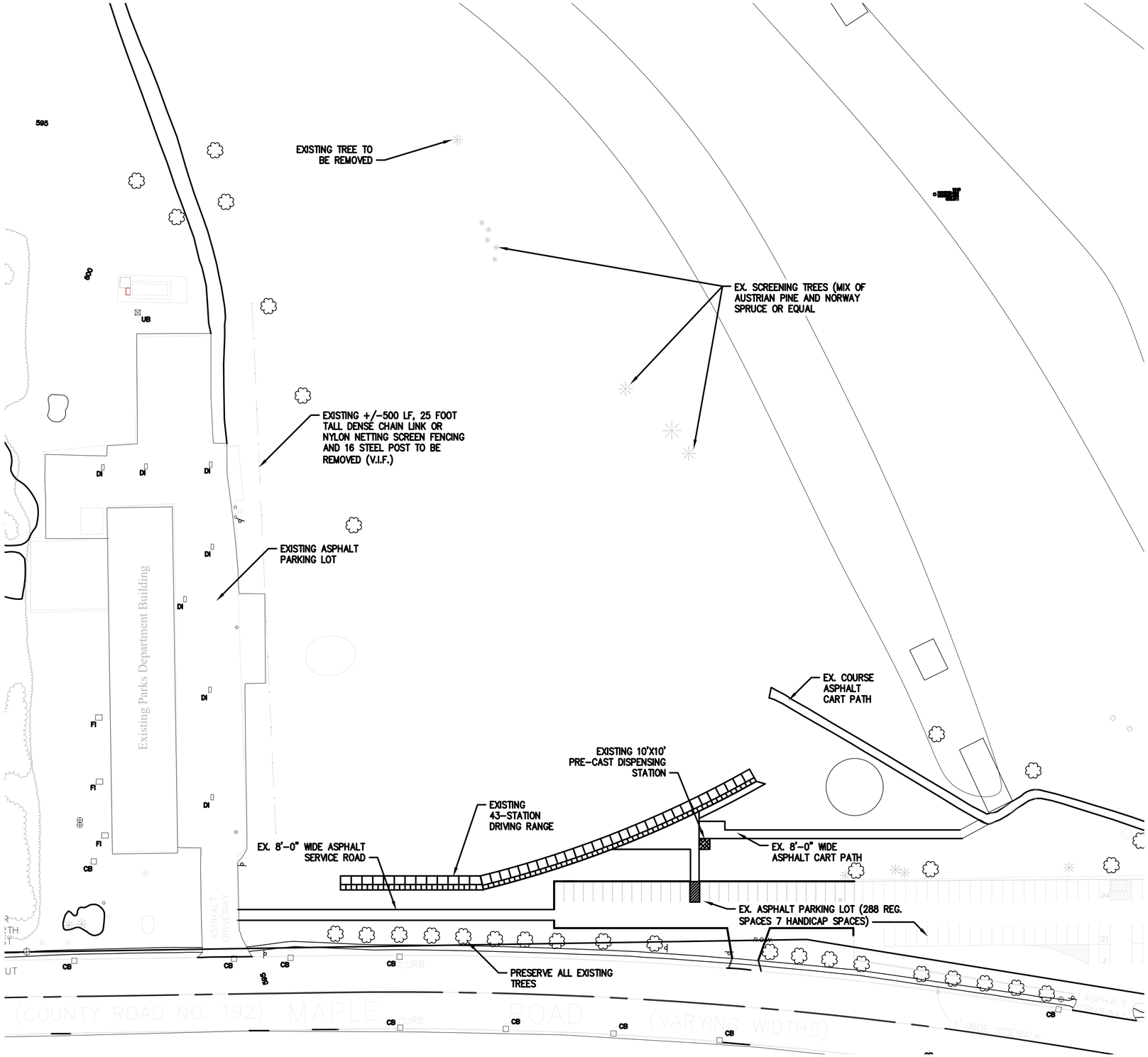
	BY	DATE

DWG. NO.

C1

SHT. NO. 2 OF 5

Attachment: SP-1993-13_C_drawings_10172024 (29454 : SP-1993-13C, 500 Maple Rd.)



NOTES:

1. FOR PERMITTING PURPOSES ONLY.
2. SITE DOES NOT CONTAIN ANY STATE OF FEDERAL WETLANDS AND IS NOT LOCATED IN A FEMA FLOODPLAIN OR FLOODWAY.

ZONING DISTRICTS

RC – RECREATION CONSERVATION

REGISTERED ARCHITECT
MICHAEL J. HITZEL
039045
STATE OF NEW YORK

LEGEND

EXISTING CONIFEROUS TREES (MIX OF AUSTRIAN PINE AND NORWAY SPRUCE OR EQUAL)

EXISTING DECIDUOUS TREES

EXISTING SHRUBS/BUSH

NOTE: ALL EXISTING LANDSCAPE SHALL REMAIN AS IS UNLESS NOTED OTHERWISE. PROJECT WILL NOT INCLUDE ANY NEW LANDSCAPING AS PART OF THE PROJECT

TOWN OF AMHERST
ENGINEERING DEPARTMENT
5583 MAIN STREET
WILLIAMSVILLE, NY 14221
PHONE: (716) 631-7051

AUDUBON GOLF COURSE DRIVING RANGE NETTING

SITE AND LANDSCAPE PLAN - EXISTING CONDITIONS

FIELD CREW:	
DRAWN BY:	MJH
JOB NO.	2000.085I
CHECKED BY:	BJA
CHECKED BY:	
SCALE:	AS NOTED
DATE:	09/05/24

REVISIONS

	BY	DATE

DWG. NO.

C2

SHT. NO. 3 OF 5

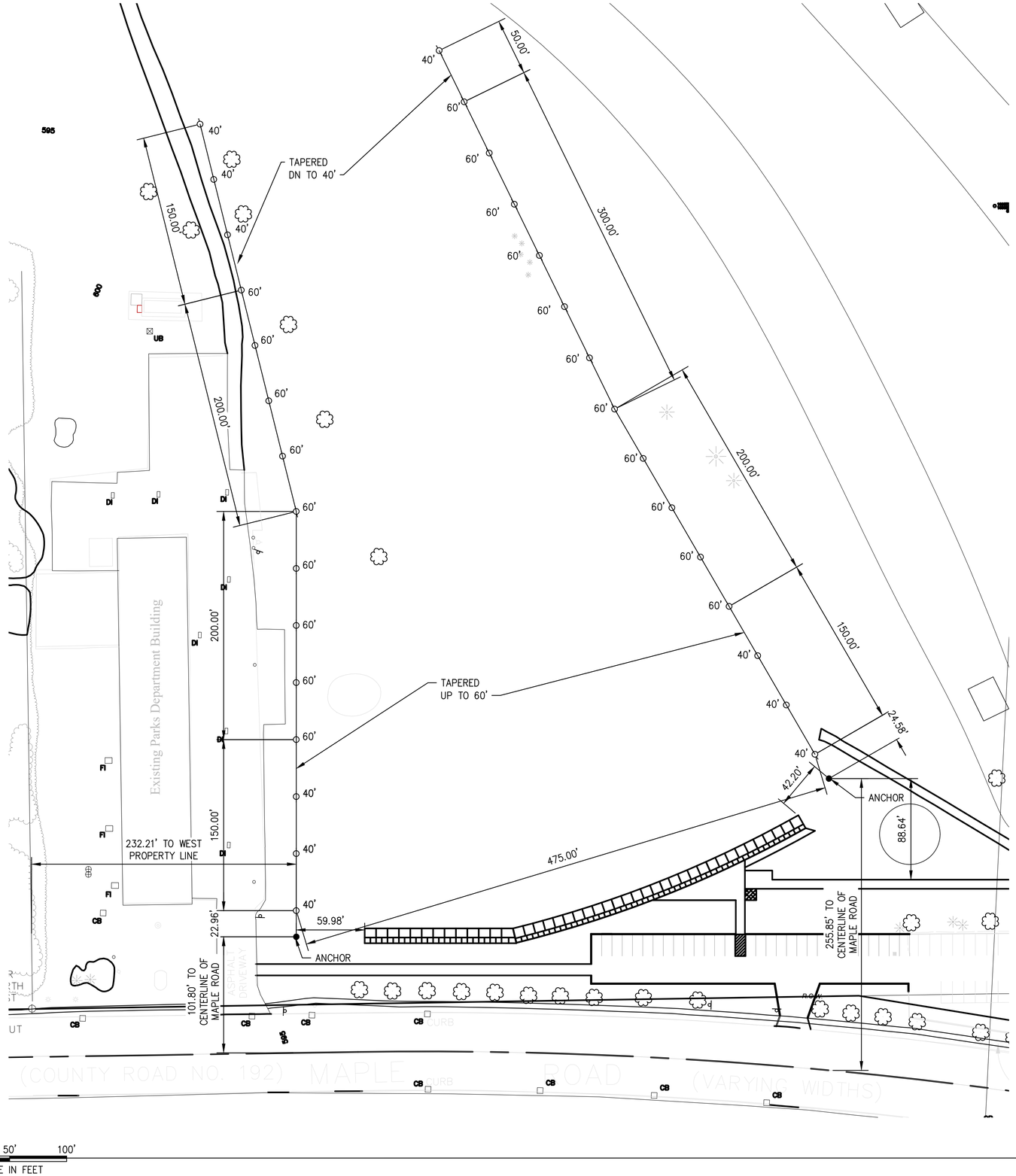
Attachment: SP-1993-13 C drawings_10172024 (29454 : SP-1993-13C, 500 Maple Rd.)

NOTES:

–ALL NEW WOOD POLES ARE SPACED 50'–0" O.C. OR AS SHOWN

–INDICATED POLE HEIGHTS ARE ABOVE FINISH GRADE

REGISTERED ARCHITECT
MICHAEL J. HITZEL
039045
STATE OF NEW YORK



TOWN OF AMHERST
ENGINEERING DEPARTMENT
5583 MAIN STREET
WILLIAMSVILLE, NY 14221
PHONE: (716) 631-7051

AUDUBON GOLF COURSE DRIVING RANGE NETTING

SITE PLAN - PROPOSED WORK

FIELD CREW:	
DRAWN BY:	MJH
JOB NO.	2000.085I
CHECKED BY:	BJA
CHECKED BY:	
SCALE:	AS NOTED
DATE:	09/05/24

REVISIONS

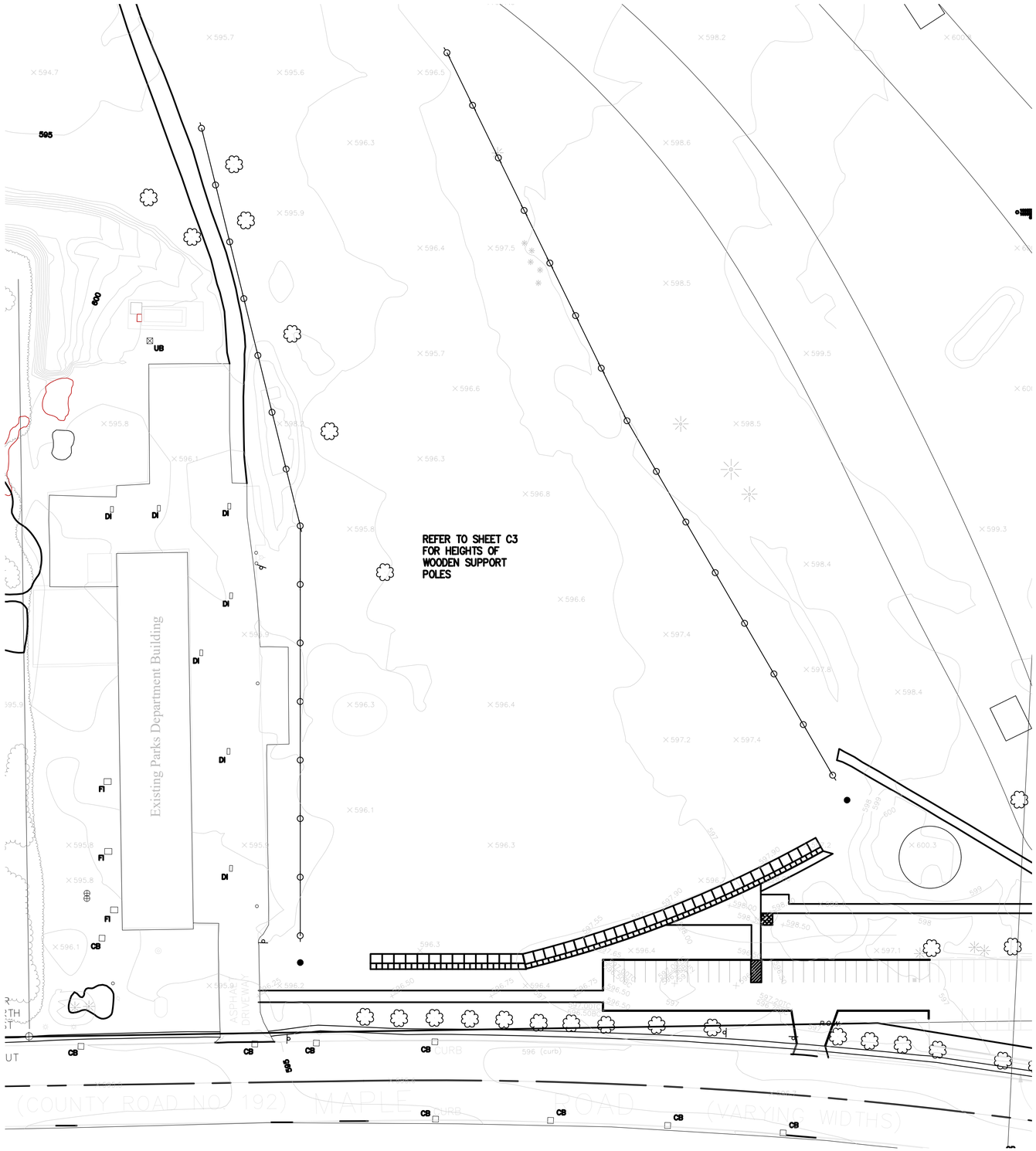
	BY	DATE

DWG. NO.

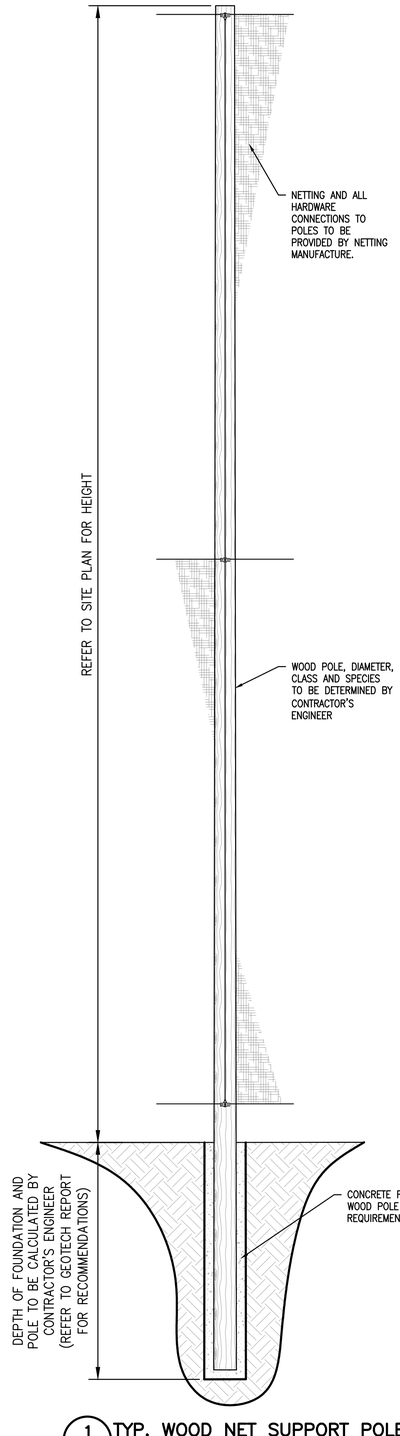
C3

SHT. NO. 4 OF 5

Attachment: SP-1993-13 C. drawings_10172024 (29454 : SP-1993-13C, 500 Maple Rd.)



0 50' 100'
SCALE IN FEET



1/02 TYP. WOOD NET SUPPORT POLE
1/4"= 1'-0"

REGISTERED ARCHITECT
MICHAEL J. HITZEL
039045
STATE OF NEW YORK

TOWN OF AMHERST
ENGINEERING DEPARTMENT
5583 MAIN STREET
WILLIAMSVILLE, NY 14221
PHONE: (716) 631-7051

AUDUBON GOLF COURSE DRIVING RANGE NETTING

EXISTING GRADING PLAN AND POLE DETAIL

FIELD CREW:
DRAWN BY: MJH
JOB NO. 2000.085I
CHECKED BY: BJA
CHECKED BY:
SCALE: AS NOTED
DATE: 09/05/04

REVISIONS

	BY	DATE

DWG. NO.
C4
SHT. NO. 5 OF 5

Attachment: SP-1993-13_C_drawings_10172024 (29454 : SP-1993-13C, 500 Maple Rd.)

Amherst

Town of Amherst Planning Department *Erie County, New York*

Brian J. Kulp
Supervisor

Daniel C. Howard,
Planning Direct

Daniel J. Ulatowski,
Assistant Planning D

OCT 25 2024 AM8:

SEQR
Negative Declaration

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency: Town of Amherst Planning Board

Project: SP-1993-13C

Address: 5583 Main Street
Williamsville, NY 14221
(716) 631-7051

Date: October 17, 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: Site Plan Review

SEQR Status: Unlisted Action

Description of Action: Removing existing netting system and installation of new 700' long wooden pole supported netting system with a maximum height of 60' on the east and west side of the golf range. Work will include the site improvements not specifically stated above, including, stormwater, utilities, and grading.

Location: 500 Maple Road, Amherst, Erie County

Petitioner: Town of Amherst

Attachment: SP-1993-13C signed neg dec 101724 (29454 : SP-1993-13C, 500 Maple Rd.)

OCT 25 2024 AM8

REASONS SUPPORTING THIS DETERMINATION

Based on information submitted by the applicant including a Full Environmental Assessment Form (EAF) - Part I, (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 Service Division on September 27, 2024 reviewed the Grading and Drainage plan submitted on September 5, 2024 prepared by the Town of Amherst Engineering Department. The Engineering Department Sanitary Division on October 10, 2024 reviewed the plans and documents submitted on September 20, 2024, 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. Review of the Local Waterfront Revitalization Program (LWPR) Waterfront Assessment Form submitted on October 10, 2024 and reviewed by the Planning Department on October 11, 2024 resulted in a recommendation that the project is consistent with the policy standards in the LWRP. The Planning Department also reviewed a Landscape Plan submitted on October 11 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 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 September 20, 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.

4. The project is not expected to create any substantive conflict with the Town Comprehensive Plan. The Planning Department and the Zoning Enforcement Officer in their review of October 8, 2024 have reviewed the application documents and the Building Department in their review of October 2, 2024 reviewed the application documents and determined that the subject project has or will have met all International Building Code – 2020 and Zoning Ordinance regulations.

5. The project is within an area identified by the State as having potential archaeological or historical significance. However, the subject work area on the site has been previously disturbed, therefore, the project will not impair the character or quality of important historical resources.

Attachment: SP-1993-13C signed neg dec 101724 (29454 : SP-1993-13C, 500 Maple Rd.)

OCT 25 2024 AMB

6. 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 Recreation Conservation (RC) zoning district neighboring uses are a mix of commercial shopping, offices, the University at Buffalo and residential uses and zoned General Business District (GB), Office Building District (OB), Residential District Three (R3), Multi-family Residential District Five (MFR-5), and Multi=family Residential District Six (MFR-6); therefore, the project is consistent with surrounding land use.

7. The proposed subject development will include removing existing netting system and installation of new 700' long wooden pole supported netting system with a maximum height of 60' on the east and west side of the golf range which will not cause a major change in the use of either the quantity or type of energy.

8. The project will not create any hazard to human health. The Fire Chief's Association on October 4, 2024, has reviewed the project and has no objection to the approval of the site plan, as all requirements of this agency have or will have been met.

9. 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 700' long netting system with 60' and 40' wooden support poles on the east and west side of the golf range will be consistent with the scale of surrounding land uses.

10. The function of the proposed golf range netting system will not significantly increase the number of people using the site over its previous level of use.

11. Review by the Town Traffic/Safety Board dated September 24, 2024 indicates that significant negative traffic impacts are not expected to result from the proposed project.

12. A coordinated review of the project has been undertaken by Town Departments, in addition to those mentioned above, Highway on September 26, 2024, Assessor on October 8, 2024, and Plumbing Division on October 1, 2024 and the outside agency Erie County Department of Environment and Planning on October 10, 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.

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 cause significant negative environmental impacts.

Planning Board Approval
Moved by: Giuliani; Seconded by: Raffaele; Ayes 5; Noes 0; Absent 2 (Gill, Kahn)

Attachment: SP-1993-13C signed neg dec 101724 (29454 : SP-1993-13C, 500 Maple Rd.)

OCT 25 2024 AM8

James Quinn, Assistant Planner — 10-22-24 Date

Michael J. Chmiel, Planning Board Chair — 10/24/24 Date

JQ/ac
X:\Current_Planning\Files\Site Plans\1993\SP-1993-13_C_(500_Maple_Rd)_2024\SP-1993-13_C_neg dec_101724.docx
cc: Commissioner of Building
Town Engineer
Fire Chiefs'
Highway
Traffic/Safety
ECDEP
NYSDEC
Michael Hitzel, Engineering Department, 1100 North Forest Road, Williamsville, NY 14221

Attachment: SP-1993-13C signed neg dec 101724 (29454 : SP-1993-13C, 500 Maple Rd.)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-1993-13C

OCT 25 2024 AM

PETITIONER

Town of Amherst Engineering Dept.
1100 North Forest Road
Williamsville, NY 14221

PROPERTY LOCATION

500 Maple Road

WHEREAS, the Town of Amherst Planning Board on Thursday, October 17, 2024 held a public hearing on a Site Plan for a 700-foot netting system on the east and west sides of the existing golf range with wooden support poles ranging in height from 40- to 60-foot, 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 in accordance with Chapter 205, Part 4, Section 1A of Town Law the Planning Board determines that the subject request is consistent with the policy standards in §205-4-4-1I of the Local Waterfront Revitalization Program, and

NOW THEREFORE BE IT FURTHER 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

Attachment: SP-1993-13C signed resolution 101724 (29454 : SP-1993-13C, 500 Maple Rd.)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION
SP-1993-13C

OCT 25 2024 AM8:

PETITIONER

Town of Amherst Engineering Dept.

PROPERTY LOCATION

500 Maple Road

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 in the review letter from the Planning Department and Zoning Enforcement Officer dated October 16, 2024 to the satisfaction of the department and the Officer.
2. That the consideration of signs is specifically excluded from this approval as they require a separate review and approval by the Town.
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.

The foregoing resolution was adopted by the Town of Amherst Planning Board, October 17, 2024; moved by Giuliani; seconded by Davis; ayes 5; noes 0; absent 2 (Gill, Kahn).

Michael J. Chmiel, Planning Board Chair

10/24/24
Date

JQ/ac
X:\Current_Planning\Files\Site Plans\1993\SP-1993-13_C_(500_Maple_Rd)_2024\SP-1993-13_C_resolution_101724.doc

cc: Commissioner of Building
Town Engineer
Fire Chiefs
Traffic/Safety
Highway Superintendent
ECDEP
NYSDEC
Michael Hitzel, Engineering Department, 1100 North Forest Road, Williamsville, NY 14221

Approved Plan: Town of Amherst Engineering Department
Received: October 10, 2024

Attachment: SP-1993-13C signed resolution 101724 (29454 : SP-1993-13C, 500 Maple Rd.)

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

TABLED

Meeting: 10/17/24 06:30 PM
Department: Planning
Category: Subdivisions & Relief from Conditions
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 29335

PLANNING BOARD ITEM (ID # 29335)

Proposed Sketch Plan for a 19-Lot Subdivision "Dodge Road Subdivision", SUB-2024-02_SK

Property located at 1789 Dodge Road
Joseph Rubino, Petitioner

Proposal to subdivide 6.7± acres of land into 18 sub-lots, 3 of the lots are for permanent open space and drainage.

October 17, 2024

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

In response to the Board's questions, Mr. Hopkins stated there will be fencing along a portion of the north and south property line, a meeting with the neighbors will take place during the preliminary plat phase, and that a larger sidewalk area could be installed on Dodge Road for students waiting for the school bus.

William Pitz, 1815 Dodge Rd.; Sandy Mack, 1790 Dodge Road; Nancy Fender, 101 Main St.; and Cheryl Anastasia, 1816 Dodge Road spoke in opposition of the proposal.

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

Following discussion, Mr. Giuliani moved to approve the request based on the resolution. The motion was seconded by Mr. Davis and failed. Ayes 3, Noes 2 (Penberthy, Raffaele), Absent 2 (Gill, Kahn).

Following discussion, Ms. Penberthy moved to adjourn the request until the November Planning Board meeting. The motion was seconded by Mr. Giuliani and passed. Ayes 5, Noes 0, Absent 2 (Gill, Kahn).

Following discussion, Mr. Penberthy moved to keep the public hearing open at the November Planning Board meeting. The motion was seconded by Mr. Giuliani and passed. Ayes 5, Noes 0, Absent 2 (Gill, Kahn).

ATTACHMENTS:

- SUB-2024-02_K_application_101724 (PDF)
- SUB-2024-02_K_drawings_101724 (PDF)
- Revised Sketch Plan uploaded 10/16/24 (PDF)
- Revised Concept Utility Plan uploaded 10/16/24 (PDF)

RESULT:	**ADJOURNED [UNANIMOUS]**	**Next: 11/21/2024 6:30 PM**
MOVER:	Brittany Lee Penberthy, Board Member	
SECONDER:	Dal Giuliani, Board Member	
AYES:	Chmiel, Davis, Giuliani, Penberthy, Raffaele Jr.	
ABSENT:	Harbinder Gill, Carrie H. Kahn	

Applicant: Joe Rubinso
Sketch Plan Application -
18 Lot Subdivision [15 Lots
for Detached Single-Family Homes
1789 Dodge Road

Not Named

TOWN OF AMHERST PLANNING DEPARTMENT

Application Subdivision Review

For Official Use

SUB-2024-02 SK
File # _____ **Acreage** 6.7± **Fee $** 1165

Type of Subdivision Application (check one):

Sketch Plan	✓
Preliminary Plat	
Final Plat	

Address Verified by Assessor's Office

_____
Verified By Date

		Fill In Applicable Fees
Sketch Plan	$1,150.00	$1,150.00
Preliminary Plat		
1 acre of less	$1,250.00	
Each Additional acre or fraction thereof	$ 650.00/acre	
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	
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
Final Plat	$ 450.00	
	TOTAL FEE:	$ 1,165.00

Materials Received by Planning Department

8/19/2024
RECEIVED BY DATE

Materials Accepted by Town Clerk & Fee Paid

_____
RECEIVED BY DATE

RECEIVED
AUG 19 2024
TOWN OF AMHERST
PLANNING DEPT.

To Be Completed By Applicant

Petitioner: Name: Joe Rubino c/o Sean Hopkins, Esq.
Address: 5500 Main Street, Suite 343
Williamsville, NY 14221
city state zip code

Phone: 510-4338 Fax: 427-6501 E Mail: shopkins@hsmlegal.com

Rev. 12/08
P/Currplan/Application Forms Working Document/Subdivision App.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Subdivision Name: Dodge Road Subdivision

Subdivision Location & Address: 1789 Dodge Road

Town of Amherst, Erie County, New York

Number of Sublots: 18 Sublots [15 lots for detached single-family homes along with 3 lots consisting of Permanent Open Space and storm water detention basin.

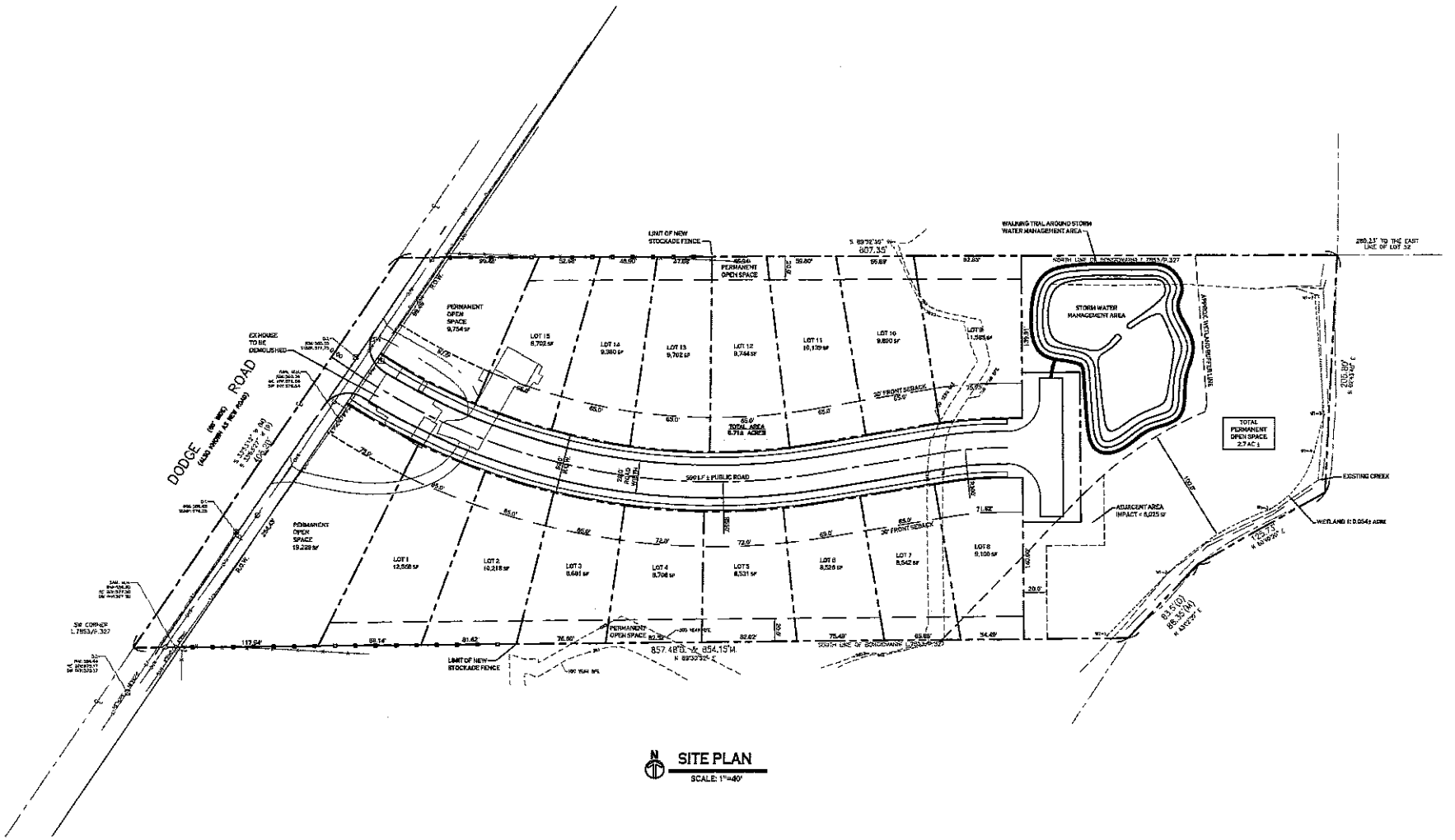
Land is Presently Zoned Residential District Three ("R-3")

A reduced size copy of the Concept Plan prepared by Carmina Wood Design depicting the layout of the proposed residential subdivision is attached as Exhibit "1" and full size copy is also attached to this Sketch Plan Application. Attached as Exhibit "2" are copies of the Negative Declaration issued by the Town Board pursuant to SEQRA on July 22, 2024 and Resolution No. 2024-538 as adopted by the Town Board on July 22, 2024 approving the rezoning of 1789 Dodge Road from SA to R-3 subject to six (6) conditions. Attached as Exhibit "3" is a copy of the Topographic Survey of the Project Site as prepared by Nussbaumer & Clarke, Inc. dated December 30, 2020.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Exhibit 1

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)



SITE PLAN
SCALE: 1"=40'

SITE DATA (ZONED R-3)

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 = 8 FT
REAR SETBACK = 30 FT

MAXIMUM LOT COVERAGE = 35%
MAXIMUM BUILDING HEIGHT = 35 FT

MINIMUM FLOOR AREA = 1,600 SF (1 STORY)
MINIMUM FLOOR AREA = 1,200 SF (2 STORIES)

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

40' 0 40 80FT.

All Rights Reserved. Use of these documents, which are protected by copyright laws, is restricted to the project listed. Any unauthorized use, including but not limited to reproduction, alteration, or distribution of these documents, is strictly prohibited without the written consent of CARMINA WOOD DESIGN. Violators will be prosecuted to the full extent of the law.

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CARMINA WOOD DESIGN
Buffalo | Utica | Greensboro

Single Family Subdivision

1789 Dodge Road
Amherst, New York

Revisions		
No.	Description	Date

PRELIMINARY
NOT FOR CONSTRUCTION

DRAWING NAME:
Sketch Plan

Date: 08.14.24
Drawn By: C. Wood
Scale: As Noted

DRAWING NO.
C-100

Project No: 20.247

Exhibit 2

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Amherst
Town of Amherst Planning Department
Erie County, New York

Brian J. Kulpa
Supervisor

Daniel C. Howard, AICP
Planning Director

Daniel J. Ulatowski, AICP
Assistant Planning Director

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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

TOWN OF AMHERST

TOWN CLERK'S OFFICE

6583 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
(716) 631-7021
FAX (716) 631-7152
www.amherst.ny.us

Francina J. Spoth
Town Clerk

Timothy Koller
Deputy Town Clerk

CERTIFICATE OF TOWN CLERK

I, Francina J. Spoth, Town Clerk of the Town of Amherst, in the County of Erie, State of New York, HEREBY CERTIFY, as follows:

That the attached Resolution 2024-539 "Adoption of Local Law to Amend the Zoning Map (1789 Dodge Road, Z-2020-15)" is a true and exact copy of the Resolution enacted by the Town Board at its meeting on July 22, 2024.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of said Town of Amherst this 2nd day of August, 2024.

Francina J. Spoth
Town Clerk
Town of Amherst, Erie County, NY

Sworn to before me
This 2nd day of August, 2024

Notary Public

TIMOTHY J. KOLLER
No. 01KO6263885
Notary Public, State of New York
Qualified in Erie County
My Commission Expires 06/11/2028

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Amherst Town Board
5583 Main Street
Williamsville, NY 14221
www.amherst.ny.us

Francina J. Spoth
Town Clerk

Meeting: 07/22/24 07:00 PM
Department: Town Clerk
Initiated by: **Timothy Koller**
Co-Sponsored by:

DOC ID: 29162 **RESOLUTION 2024-539** **ROLL CALL VOTE (ADOPTED)**

Adoption of Local Law to Amend the Zoning Map (1789 Dodge Road, Z-2020-15)

RESOLVED, that pursuant to 6NYCRR Part 617 (SEQR) and Town Code Section 104, as amended, that the requirements of SEQR have been completed and the Town Board issues the attached Negative Declaration, and be it further

RESOLVED, that pursuant to NYS Town Law Sec.272-a, the Town Board does not concur with the findings of the Planning Board as stated in their resolution of September 23, 2021 that the proposed Single Family Residential District Three (R-3) zoning at 1789 Dodge Road is generally inconsistent with the policies of the adopted Bicentennial Comprehensive Plan, and is not compatible with the present zoning and conforming use of nearby property and with the character of the neighborhood, and be it further

RESOLVED, that the Town Board does find that the proposed Residential District Three (R-3) zoning at 1789 Dodge Road is consistent with the adopted Bicentennial Comprehensive Plan because the proposal provides single-family residential density within the target range (2-4 units/acre) as established by Section 3.3.1 of the Bicentennial Comprehensive Plan for single family residential uses and further depicted by Figure 6 of the Plan and is consistent in character with the other single-family subdivisions in the vicinity, which are predominantly single family homes, and be it further

RESOLVED, that the Town Board does find that the proposal is consistent with the adopted Bicentennial Comprehensive Plan because the proposal will incorporate design changes that reflect a mutually beneficial transition between the R-3 zoning to the surrounding S-A zoning by utilizing perimeter open spaces, a 75-foot natural buffer / no build area along the Dodge Road frontage, and be it further

RESOLVED, that in accordance with Chapter 203, Section 8-3-6 of the Town Code (Zoning), the Town Board adopts Local Law ( ) to amend the Town Zoning map from Suburban Agriculture (SA) to Residential District Three (R-3) subject to the following conditions:

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 under the control of a home owners association.
4. That the final plat design shall include a right-of-way access to a potential

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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.

6/24/2024
A motion to open the public hearing was made by Supervisor Kulpa, seconded by Deputy Supervisor Lavin and unanimously approved 4-0. The public hearing was opened at 7:27 PM.

Sean Hopkins, Esq. and Joe Rubino presented and answered questions.

The following speakers addressed the Board:
William Pitz, 1815 Dodge Rd
Cheryl Anastasia, 1860 Dodge Rd
Nancy Fender, 101 Main St
John Hamsik, 1820 Dodge Rd
Pam Curcio, 1745 Dodge Rd
Jina Gentry, 65 Bissell Dr
Merja Kenola, 1800 Dodge Rd
Sandy Mack, 1790 Dodge Rd
Nick Rockwell, 1765 Dodge Rd
Bob Drdul, 92 Chateau Ter
Don Smith, 201 N Long St

There were no further speakers from the public, therefore Supervisor Kulpa moved to close the hearing and set a decision date for the July 22nd Town Board meeting, seconded by Deputy Supervisor Lavin and unanimously approved 4-0. The public hearing was closed at 8:38 PM.

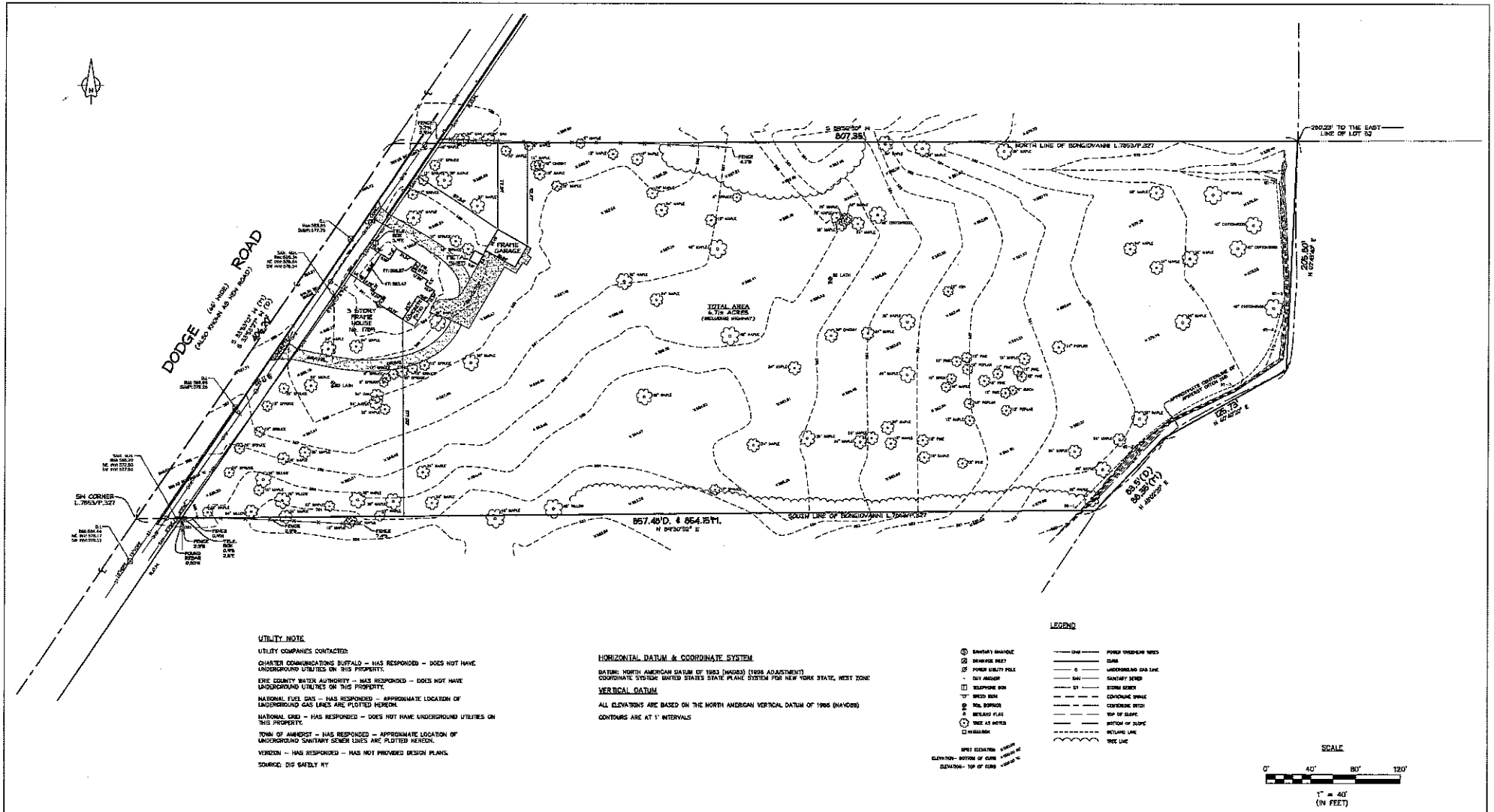
7/22/2024
A motion to approve was made by Supervisor Kulpa, seconded by Deputy Supervisor Lavin and was approved via Roll Call vote 4-1 (nay, Kulpa).

RESULT:	**ROLL CALL VOTE (ADOPTED) [4 TO 1]**
MOVER:	Brian J. Kulpa, Supervisor
SECONDER:	Shawn Lavin, Deputy Supervisor
AYES:	Lavin, Berger, Szukala, Marinucci
NAYS:	Kulpa

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Exhibit 3

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)



3556 Lake Shore Road, Suite 500, Buffalo, NY 14219
p (716) 822-4000 f (716) 250-6091 www.nussbaumerclarke.com

NUSSBAUMER & CLARKE, INC. ENGINEERS AND SURVEYORS

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 Scale: 1" = 40' Project No.: 2022-15270

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

New York State Department of Environmental Conservation
Division of Environmental Permits
NYSDEC Region 9 Headquarters
700 Delaware Ave
Buffalo, NY 14209
(716) 851-7165

August 19, 2024

JOSEPH RUBINO
5570 MAIN ST
WILLIAMSVILLE, NY 14221

Re: DEC ID # 9-1422-00629/00001
1789 DODGE RD SUBDIVISION

Dear Applicant :

Please be advised that your application for a DEC permit(s) is complete and a technical review has commenced. Notice and the opportunity for public comment is required for this application. Enclosed is a Notice of Complete Application for your project. Please have the Notice published in the newspaper identified below once during the week of 08/19/2024 on any day Monday through Friday.

AMHERST BEE
5564 MAIN ST
PO BOX 150
BUFFALO, NY 14231-0150

On the Notice of Complete Application, that information presented between the horizontal lines, on the enclosed page(s) should be published. Do not print this letter or the information contained below the second horizontal line. Please request the newspaper publisher to provide you with a Proof of Publication for the Notice. Upon receipt of the Proof of Publication promptly forward it to this office. You must provide the Proof of Publication before a final decision can be rendered on your application. You are responsible for paying the cost of publishing the Notice in the newspaper.

Notification of this complete application is also being provided by this Department in the NYSDEC Environmental Notice Bulletin.

This notification does not signify approval of your application for permit. Additional information may be requested from you at a future date, if deemed necessary to reach a decision on your application. Your project is classified major under the Uniform Procedures Act. Accordingly, a decision is due within 90 days of the date of this notice unless a public hearing is held, which may extend this time frame. If a public hearing is necessary, you will be notified.

If you have any questions please contact me at the above address or phone number above.

Sincerely,

BRUNO A DIBELLA
Division of Environmental Permits

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

THIS IS NOT A PERMIT

New York State Department of Environmental Conservation
Notice of Complete Application

Date: 08/12/2024

Applicant: JOSEPH RUBINO

Facility: 1789 DODGE RD SUBDIVISION
1789 Dodge Rd
Amherst, NY 14221

Application ID: 9-1422-00629/00001

Permits(s) Applied for: 1 - Article 24 Freshwater Wetlands

Project is located: in AMHERST in ERIE COUNTY

Project Description:
The Department has received a permit application for the temporary impact to 0.14 acres of the regulated 100 foot adjacent area (AA) of NYSDEC Freshwater Wetland (FWW) CC-15 as a result of minor grading for lot number 9 and the road terminus for the proposed subdivision. The project is located on 1789 Dodge Road in the Town of Amherst. The project meets the Department's Part 663 compatibility and weighing standards. The Department is seeking comments on the proposed regulated activity prior to making a final decision on permit issuance.

Availability of Application Documents:
Filed application documents, and Department draft permits where applicable, are available for inspection during normal business hours at the address of the contact person. To ensure timely service at the time of inspection, it is recommended that an appointment be made with the contact person.

State Environmental Quality Review (SEQR) Determination
Project is a Type I action and will not have a significant effect on the environment. A coordinated review with other involved agencies was performed and a Negative Declaration is on file.

SEQR Lead Agency Amherst Town Planning Board

State Historic Preservation Act (SHPA) Determination
Cultural resource lists and maps have been checked. The proposed activity is not in an area of identified archaeological sensitivity and no known registered, eligible or inventoried archaeological sites or historic structures were identified or documented for the project location. No further review in accordance with SHPA is required.

DEC Commissioner Policy 29, Environmental Justice and Permitting (CP-29)
It has been determined that the proposed action is not subject to CP-29.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Availability For Public Comment

Comments on this project must be submitted in writing to the Contact Person no later than 09/05/2024 or 15 days after the publication date of this notice, whichever is later.

Contact Person

BRUNO A DIBELLA
NYSDEC
700 Delaware Ave
Buffalo, NY 14209
(716) 851-7165

CC List for Complete Notice

Angie Driscoll NYSDEC
Scott Livingstone EDI Inc
Hon Brian Kulpa Town of Amherst
ENB
File

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Wetland and Waterbodies Delineation Report

for

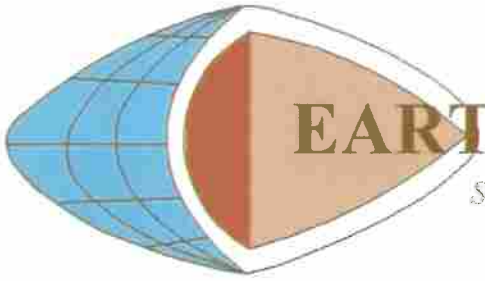
1789 DODGE ROAD

Town of Amherst

Erie County, New York

for

Joe Rubino



EARTH DIMENSIONS, INC.

Soils Investigations • Wetland Delineations

December 21, 2020
EDI Project Code: **W20J20a**

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

TABLE OF CONTENTS

Executive Summary ii

Table 1: Wetland Summary ii

Table 2: Stream & Drainage Summary ii

Section I: Introduction 1

Section II: Site Description 2

Section III: Preliminary Data Review 3

A. SUMMARY OF FINDINGS 3

1. USGS 7.5 Minute Topographical Map 3

2. USFWS National Wetlands Inventory Map 3

3. Natural Resources Conservation Service Soils Map 3

4. NYSDEC Freshwater Wetlands Map 4

B. RESULTS OF AGENCY INFORMATION REVIEW 4

Section IV: Field Investigation Procedures 6

Wetlands: 6

Streams & Drainages: 9

Section V: Results And Conclusions 11

Section VI: Recommendations 13

Appendix A - Figures

Figure 1: USGS 7.5 Minute Topographical Map

Figure 2: National Wetlands Inventory Map

Figure 3: NRCS Erie County Soil Survey Map

Figure 4: NYSDEC Environmental Resource Mapper

Figure 5: General Vegetation Map

Figure 6: Wetland Delineation Map

Figure 7: Drainage Map

Figure 8: Site Aerial Photograph

Appendix B – Data Sheets

Appendix C - Site Photographs

Appendix D - References

Appendix E - Wetland Investigation Personnel

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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)	Jurisdictional Determinatio
Stream 1	UNT to Ransom Creek/ Town of Amherst Ditch 26B	C	436.3 feet	20 to 25	Intermittent	Organic, silt	R4SB6	Jurisdictional

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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_K_application_101724 (29335 : SUB-2024-02SK, 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

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

1789 Dodge Road

Appendix A - Figures

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

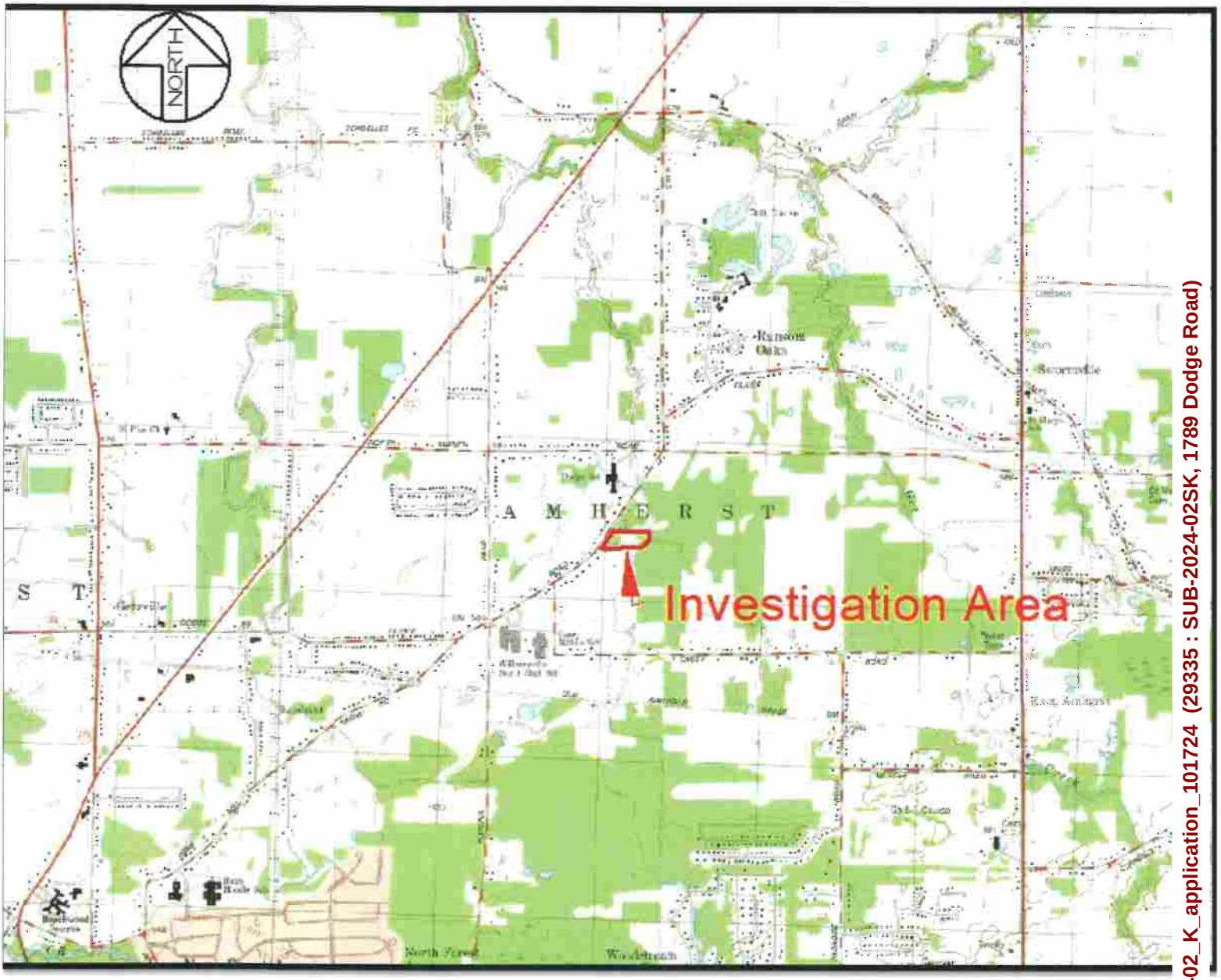


FIGURE 1: USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Clarence Center Quadrangle / 2002 DeLorme

1789 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

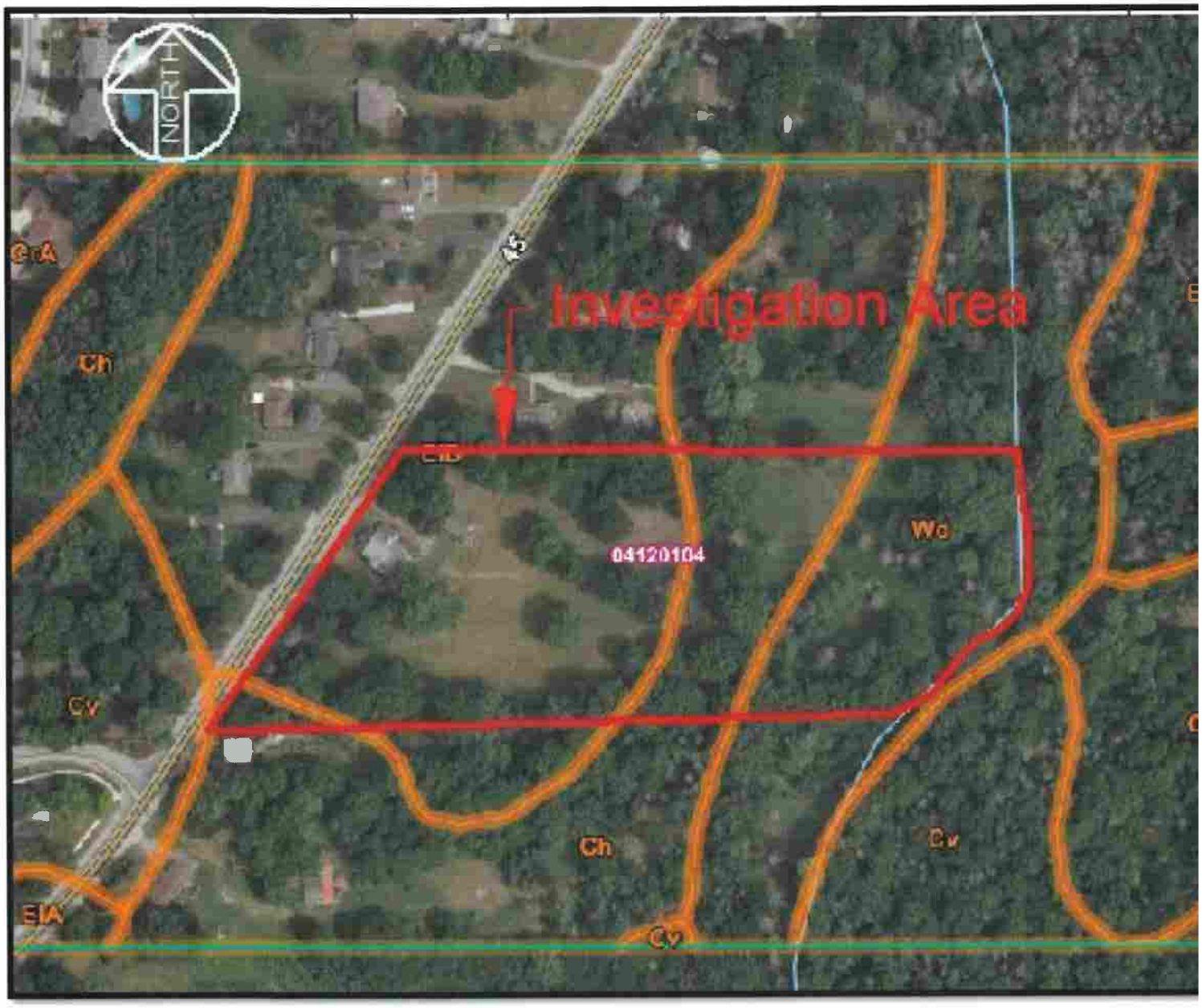


FIGURE 3: NRCS ERIE COUNTY SOIL SURVEY MAP

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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)



FIGURE 4: NYSDEC ENVIRONMENTAL RESOURCE MAPPER

http://www.dec.ny.gov/imsmaps/ERM/viewer.htm (Visited 12/21/20)

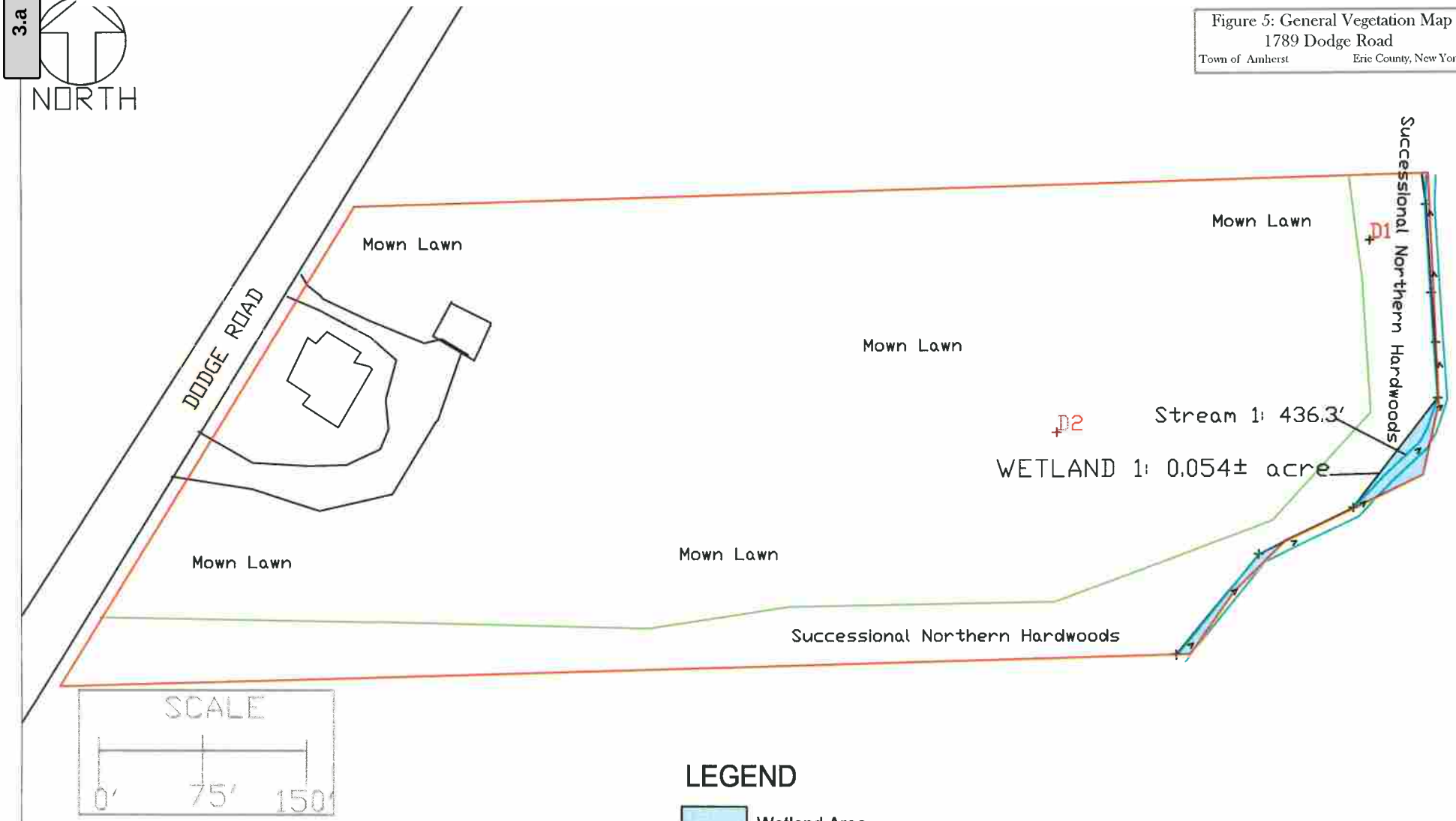
1789 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Figure 5: General Vegetation Map
1789 Dodge Road
Town of Amherst Erie County, New York



LEGEND

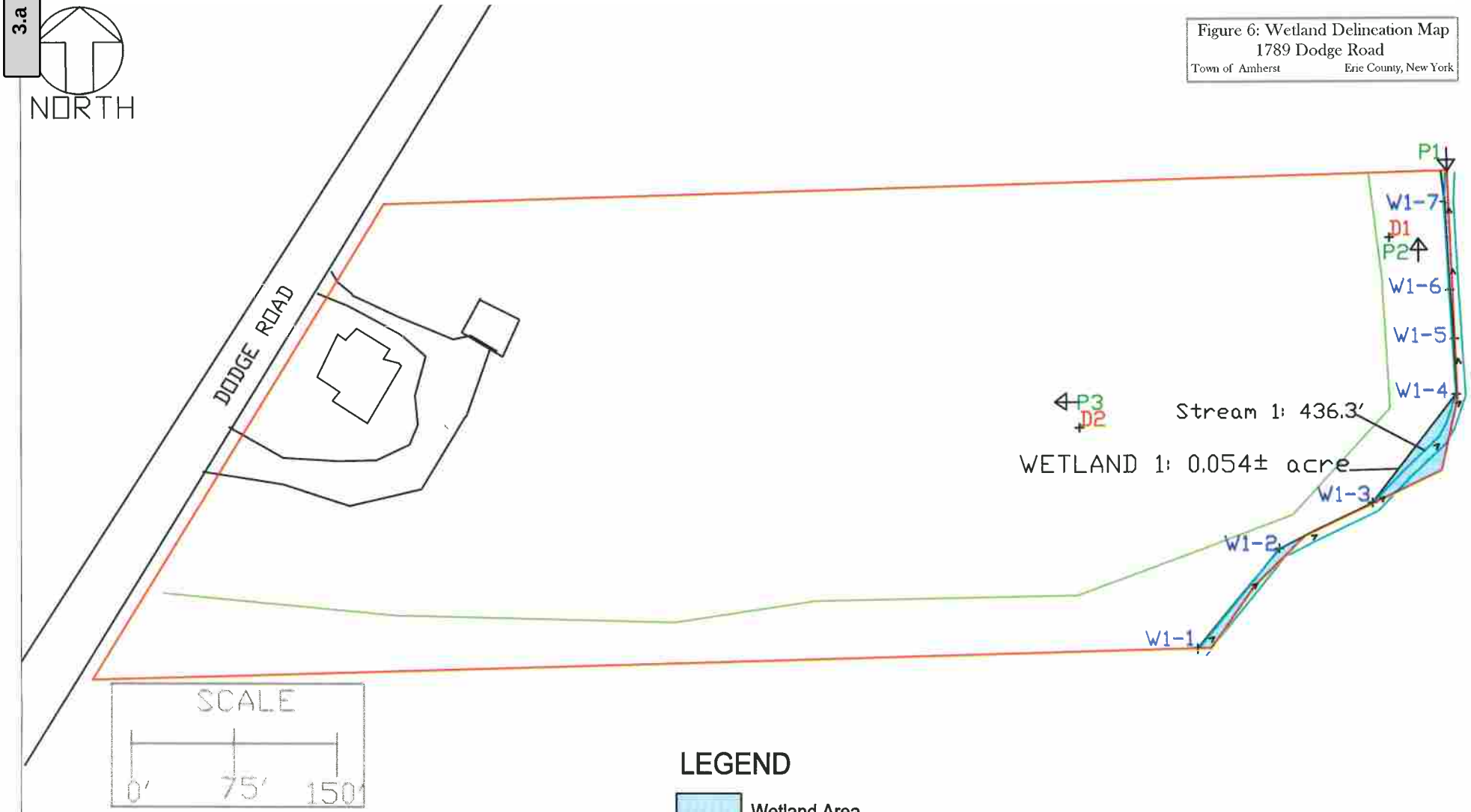
- Wetland Area
- Stream
- D1 Data Point Location
- Investigation Area

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.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Figure 6: Wetland Delineation Map
1789 Dodge Road
Town of Amherst Erie County, New York



LEGEND

- Wetland Area
- Photo location (P1)
- Data Point Location (D1)
- Investigation Area
- Wetland Flag (W1-1)
- Stream

Scale: as shown
Map Date: December 21, 2020 JMC/EDI Revised:
Base Map Provided By: GPS Mapping
File Name: DD MAP.DWG
EDI Project Code: W20J20a

EARTH DIMENSIONS, INC.

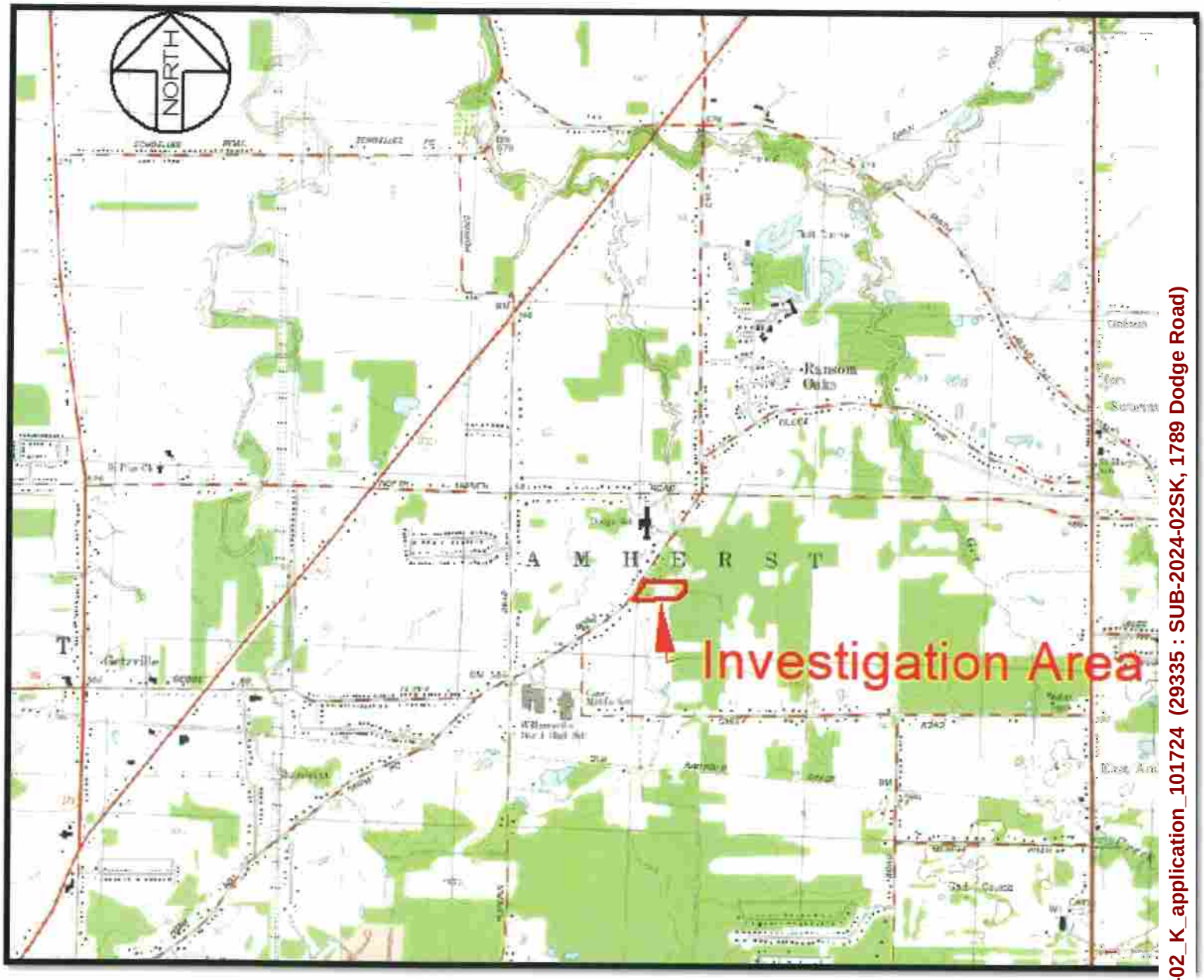


FIGURE 7: DRAINAGE MAP

Clarence Center Quadrangle / 2002 DeLorme

1789 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

1789 Dodge Road

Appendix B – Data Sheets

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Project Code: W20J20a

3.a

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	FACW
2. Alliaria petiolata	35	Y	FACW
3. Galium aparine	5	N	FACW
4. Circea lutetiana	5	N	NI
5. Dactylis glomerata	5	N	FACW
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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 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: NZ

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 NW I 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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

1789 Dodge Road

Appendix C - Site Photographs

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

1789 Dodge Road

Appendix D - References

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

INFORMATIONAL REFERENCES
USED BY EARTH DIMENSIONS INC.

Andrus, R.E. 1980. Sphagnaceae (Peat Moss Family) of New York State. Contributions to a Flora of New York State III, R.S. Mitchell (Ed.), Bulletin No. 442, New York State Museum, Albany, New York. 89 pp.

Benyus, J.M. 1989. The Field Guide to Wildlife Habitats of the Eastern United States. Fireside, Simon & Shuster, Inc., New York. 335 pp.

Britton, N.L., and H.A. Brown. 1970. An Illustrated Flora of the Northern United States and Canada, Volumes 1, 2, and 3. Dover Publications, Inc., New York. 2052 pp.

Brockman, C.F., R. Merrilees, and H.S. Zim. 1968. Trees of North America: A Field Guide to the Major Native and Introduced Species North of Mexico. Western Publishing, Inc. New York, New York. 280 pp.

Brown, L. 1979. Grasses: An Identification Guide. Peterson Nature Library. Houghton Mifflin Co., Boston. 240 pp.

Cobb, B. 1963. A Field Guide to the Ferns and Related Families. Houghton Mifflin Co., Boston. 281 pp.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. Laroe. 1979. Classification of Wetlands and Deep Water Habitats of the United States. U.S. Fish and Wildlife Service, Washington, D.C. FWS/OBS-79-31. 103 pp.

Eggers, S.D., and D.M. Reed. 1997. Wetland Plants and Plant Communities of Minnesota and Wisconsin. Second Edition. U.S. Army Corps of Engineers, St. Paul District, Minnesota. 263 pp.

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mass. 100 pp. plus appendices.

Hotchkiss, N. 1970. Common Marsh Plants of the United States and Canada. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C., Resource Publication 93.

Hurley, L.M. 1990. Field Guide to the Submerged Aquatic Vegetation of Chesapeake Bay. U.S. Fish and Wildlife Service, Chesapeake Bay Estuary Program, Annapolis, Maryland. 51 pp.

Knobel, E. 1977. Field Guide to the Grasses, Sedges, and Rushes of the United States. Dover publications, Inc., New York. 83 pp.

Little, E.L. 1980. The Audubon Society Field Guide to North American Trees (Eastern Region). Alfred A. Knopf, New York. 714 pp.

Magee, D.W. 1981. Freshwater Wetlands. University of Massachusetts Press, Clarence. 245 pp.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Mitchell, R.S., and G.C. Tucker. 1997. Revised Checklist of New York State Plants. Contributions to a Flora of New York State IV, R.S. Mitchell (Ed.). Bulletin No. 490, New York State Museum, Albany, New York. 400 pp.

Munsell Color Chart. (Munsell Color 1975).

National Wetland Inventory Maps. U.S. Department of the Interior, Fish and Wildlife Service, National Wetland Inventory, St. Petersburg, Florida. http://wetlandsfws.er.usgs.gov date visited: 2/4/2010

Niering, W.C., and N.C. Olmstead. 1979. The Audubon Society Field Guide to North American Wildflowers (Eastern Region). Alfred A. Knopf, New York. 887 pp.

New York State Code of Rules and Regulations (NYCRR). 1989. Protected Native Plants. NYCRR Part 193.3, June, 1989. New York State Department of Environmental Conservation.

New York Natural Heritage Program. 2002. New York Rare Plant Status List, February, 1989. S.M. Young, (Ed.), New York State Department of Environmental Conservation and The Nature Conservancy publication. 26 pp.

New York State Department of Environmental Conservation Freshwater Wetlands Maps, NYSDEC Environmental Resource Mapper, http://www.dec.ny.gov/imsmaps/ERM/viewer.htm

Newcomb, L. 1977. Newcomb's Wildflower Guide. Little, Brown and Co., Boston. 490 pp.

Ogden, E.C. 1981. Field Guide to Northeastern Ferns. Contributions to a Flora of New York State III, R.S. Mitchell (Ed.), Bulletin No. 444, New York State Museum, Albany, New York. 122 pp.

Peattie, D.C. 1991. A Natural History of Trees of Eastern and North America. Houghton Mifflin Co., Boston. 606 pp.

Peterson, RT., and M. McKenny. 1968. A Field Guide to Wildflowers of Northeastern and Northcentral North America. Houghton Mifflin Co., Boston. 420 pp.

Petrides, G.A. 1972. A Field Guide to Trees and Shrubs. Houghton Mifflin Co., Boston. 428 pp.

Prescott, G.W. 1969. How to Know the Aquatic Plants. Second Edition. William C. Brown Co., Dubuque, Iowa. 171 pp.

Raynal, D.J., and D. J. Leopold. 1999. Landowner's Guide to State-Protected Plants of Forests in New York State. New York Center for Forestry Research and Development, SUNY-ESF, Syracuse, New York. 92pp.

Reed, Porter B. Jr. 1988. National List of Plant Species that Occur in Wetlands: Northeast (Region 1). U.S. Fish and Wildlife Service, Washington, D.C. Biol. Rept. 88 (26.1). 112 pp.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Reschke, C. 2002. Ecological Communities of New York State. New York Natural Heritage Program. NYSDEC, Latham, N.Y. (2nd Ed.) 136 pp.

Soil Conservation Service. 1975. Soil Taxonomy: A Basic System of Soil Classification for Making and Interpreting Soil Surveys. U.S.D.A., Soil Conservation Service, U.S. Handbook 436.

Soil Conservation Service. 1988. New York Hydric Soils and Soils with Hydric Inclusions, revised July, 1988, Soil Conservation Service, Syracuse, New York, Technical Guide, Section II. 23 pp.

Simonds,R.L., and H.H. Tweedie. 1978. Wildflowers of the Great Lakes Region. Chicago Review Press, Chicago. 96 pp.

Symonds, G.W.D. 1958. The Tree Identification Book. Quill, New York. 272 pp.

Symonds, G.W.D. 1963. The Shrub Identification Book. William Morrow & Co., New York. 379 pp.

Tiner, R. W. Jr. 1988. A Field Guide to Nontidal Wetland Identification. Maryland Department of Natural Resources and U.S. Fish and Wildlife Service Cooperative Publication. Maryland Department of Natural Resources, Annapolis, Maryland. 283 pp. + 198 color plates.

United States Department and Agriculture & the Natural Resources Conservation Service (USDA, NRCS).Soil Conservation Service Soil Survey of Erie County, New York. U.S.D.A., Soil Conservation Service. 1986 http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

USDA, NRCS. 2009. The PLANTS Database (http://plants.usda.gov). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.

United States Geological Survey maps, Denver, Colorado. Clarence Center Quadrangle/2002DeLorme.

U.S. Army Corps of Engineers. 2009. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-09-19. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

U.S. Fish and Wildlife Service, A Wetlands and Deepwater Habitats Classification. May 3, 2002, http: //www.nwi.fws.gov/. June 16, 2002.

Zander, R.H., and G.J. Pierce. 1979. Flora of the Niagara Frontier Region. Bulletin of the Buffalo Society of Natural Sciences, Vol. 16 (Suppl. 2), Buffalo, New York. 110 pp

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

1789 Dodge Road

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

EARTH DIMENSIONS, INC.
* Soil & Hydrogeologic Investigations * Wetland Delineations
1091 Jamison Road, Elma NY 14059
(716) 655-1717 * Fax (716) 655-2915 www.earthdimensions.com

February 16, 2022 W20J20a

Mr. David Denk
Regional Permit Administrator
NYSDEC Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

RE: Single Family Subdivision – 1789 Dodge Road
Town of Amherst, Erie County, New York

Dear Mr. Denk:

On behalf of our client, Joseph Rubino, Earth Dimensions, Inc. (EDI) is submitting the attached Joint Application for Permit and appendices for a proposed 17-lot residential subdivision located in the Town of Grand Island, Erie County, New York.

The project will require the impact of 6,025 square feet (0.14± acre of regulated upland adjacent area to NYSDEC Freshwater Wetland CC-15 in associated with minor grading associated with Lot #9 and the proposed road terminus. The applicant is requesting an Article 24 permit for this proposed impact which is currently maintained lawn. Note that a SEQR Determination has not yet been issued by the Town of Amherst but will be forwarded once available in order to make this application complete. A hard copy of this application along with a check for the $200 application fee is being sent via the US Postal Service.

If you have any questions or require further information, please contact our office at (716) 655-1717 or email slivingstone@earthdimensions.com.

Very truly yours,
Earth Dimensions, Inc.

Scott J. Livingstone
Wetlands Operations Manager

Encl:
Appendix 1 – Site Location Map
Appendix 2 – Site Plans/Impact Map
Appendix 3 – SEQR Documentation
Appendix 4 – NYSDEC Wetland Verification Letter
Appendix 5 – Tree Planting Map & Monument Plan
Appendix 6 – Joint Application for Permit

Cc: Joe Rubino via email
Sean Hopkins, Esq. via email
Chris Wood, Carmina Wood Morris via email

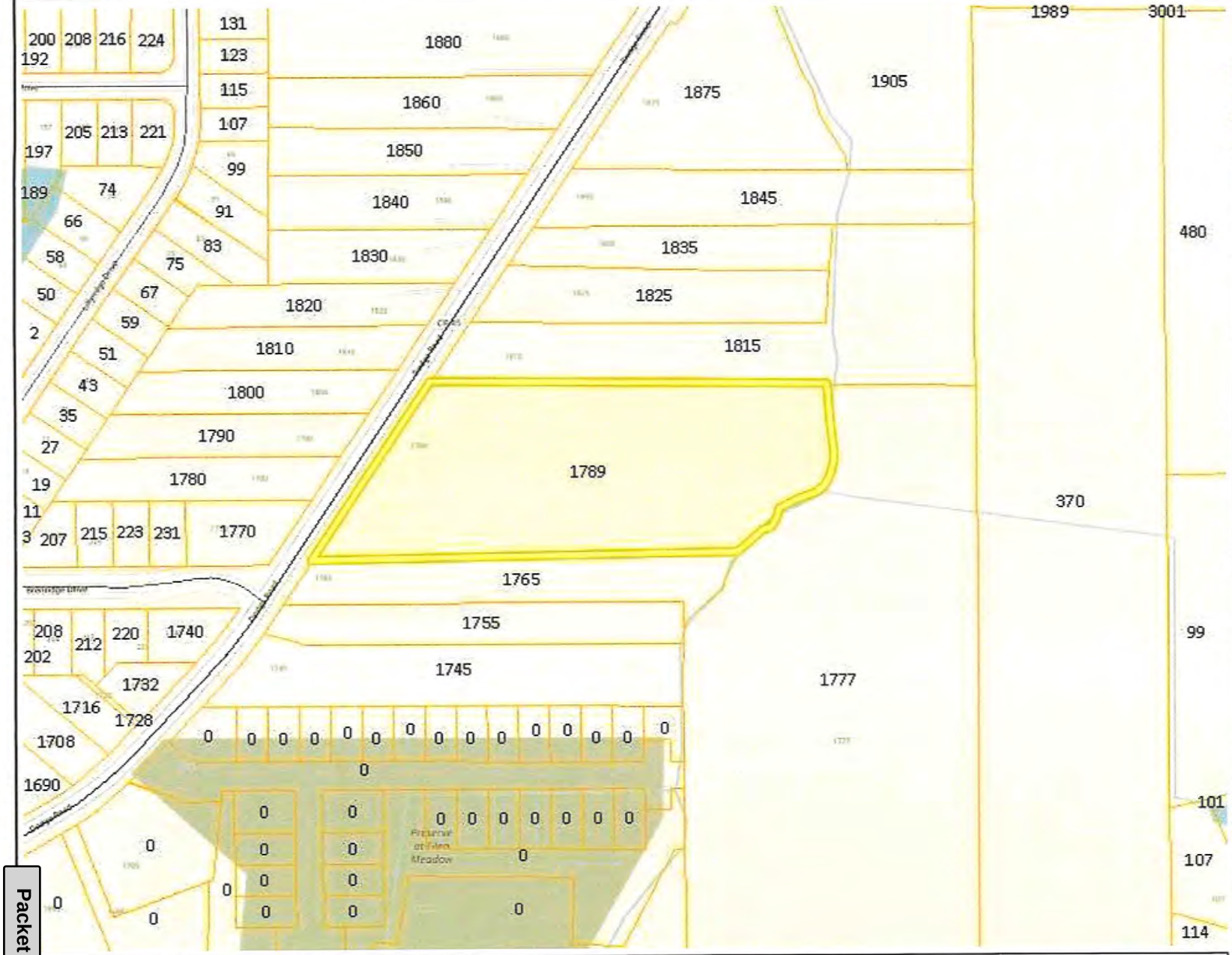
Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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APPENDIX 1 – SITE LOCATION MAP

Erie County On-Line Mapping Application





Legend

- Parcels
- Streets and Highways
  - Interstate
  - Primary State Road
  - Secondary State Road
  - County Road
  - Local Road

0 0.07 0.1 Miles

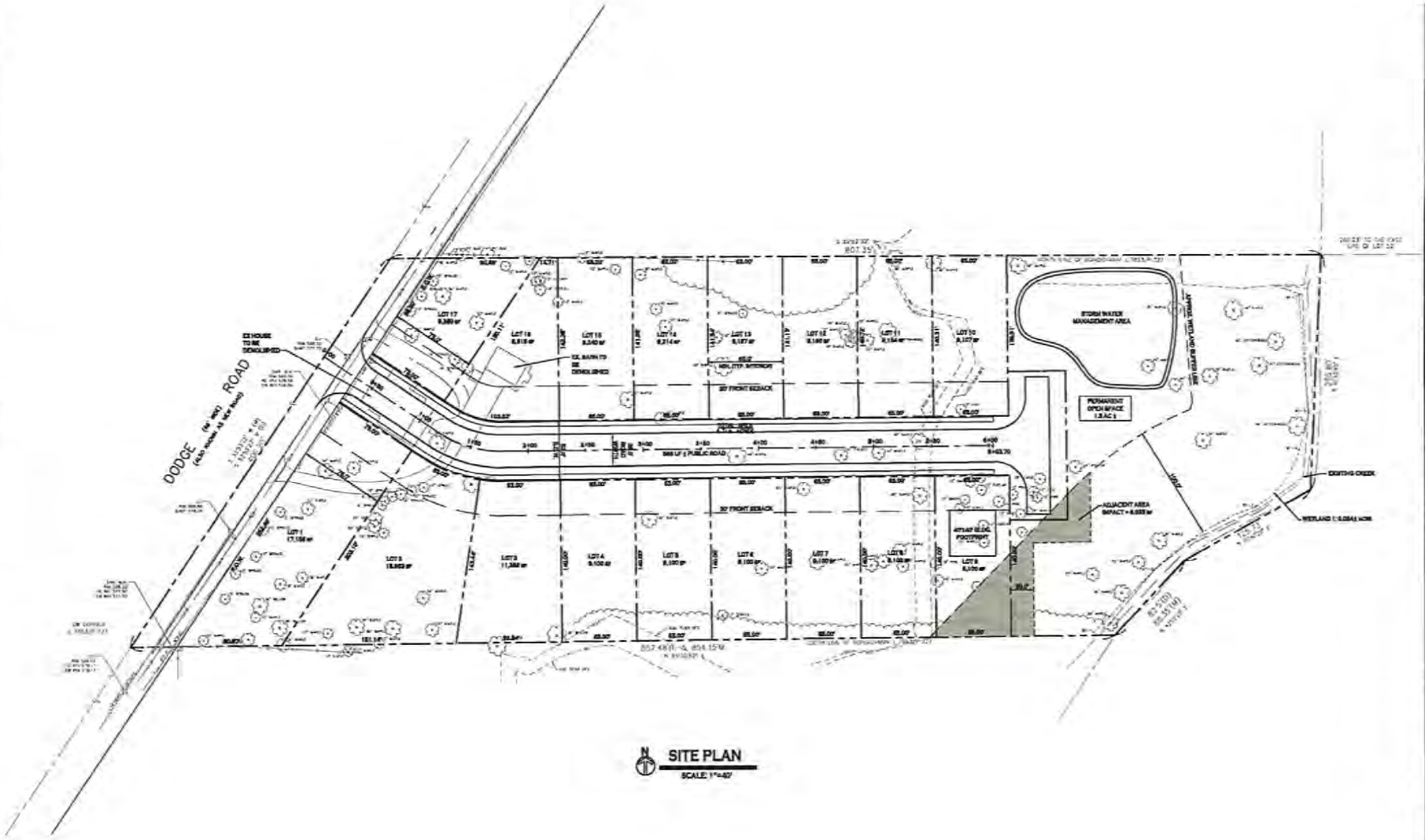
ERIE COUNTY
DEPARTMENT OF ENVIRONMENT & PLANNING

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

1: 4,514

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

APPENDIX 2 – SITE PLANS/IMPACT MAP



SITE DATA (REZONED FROM SA TO R4 ZONING)

AREA = 6.7 ACRES ±

MIN. LOT WIDTH = 65 FT INTERIOR LOTS
MIN. LOT WIDTH = 75 FT CORNER LOTS

MIN. LOT AREA = 6,500 SF INTERIOR LOTS
MIN. LOT AREA = 8,700 SF CORNER LOTS

FRONT SETBACK = 30 FT (OFF EDGE OF PVMT)
SIDE SETBACK = 8 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 = 1,300 SF (2 STORIES)

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD MORRIS, P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40' 0 40 80 SCALE

Carmina Wood Morris

REVISIONS:
No. Description Date

PROJECT NAME:
New Construction
Single Family Subdivision
1789 Dodge Road
Amherst, New York

Date: 12/1/2
Drawn by: C. Woc
Scale: As Note

DRAWING NAME:
Site Plan

DRAWING NO.
C-1

Project no.:

(C) Carmina Wood Morris DPC

All rights reserved. Reuse of these documents without the expressed written permission of Carmina Wood Morris, PC is prohibited. Violation(s) is a violation of Article 145 section 2586A and 1301 of the New York State education law for any person, unless acting under the direction of a registered architect, to make a change to any plan or drawing or to affix his seal or stamp to such plan or drawing which alters such plan or drawing. In addition, the filing, the commercial utilization and a specific description of the violation.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

APPENDIX 3 – SEQR DOCUMENTATION

Amended Part 1 of Full Environmental Assessment Form - Rezoning of 1789 Dodge Road from SA to R-3
Applicant: Joe Rubino

Full Environmental Assessment Form
Part 1 - Project and Setting

Prepared By: Sean W. Hopkins, Esq.
Hopkins Sorgi & McCarthy PLLC
5500 Main Street, Suite 343
Williamsville, New York 14221
Tel: 716.510-4338
E-mail: shopkins@hsr-legal.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 rezoning of approximately 6.7 acres of land at 1789 Dodge Road ("Project Site") from Suburban Agriculture ("S-A") to Residential District Three ("R-3") to accommodate a proposed 18 lot residential subdivision (15 homes) along with all related site improvements. A copy of the Sketch Plan [Drawing C-100 - Date: 07/14/21] depicting the layout of the proposed residential subdivision as prepared by Carmina Wood Morris DPC is attached to the Amended Rezoning Application. 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, a roadway connection 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 per the recommended land use in Figure 6 of the Town's adopted Comprehensive Plan. The Project Sponsor believes the project will not result in any potentially significant adverse environmental impacts and that the issuance of a negative declaration by the designated lead agency [anticipated to be the Amherst Town Board] is both appropriate and justified.		
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: 5500 Main Street, Suite 343		
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_K_application_101724 (29335 : SUB-2024-02SK, 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	Town Board - Rezoning and Public Improvement Permits	December 28, 2020 [Amended Application: August 16, 2021]
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Preliminary Plat and Final Plat Approval	To be determined
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 - SPDES Permit and DSCA Approval	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): [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):

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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?
Suburban Agriculture District ("SA")

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? Residential District Three ("R-3")

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? 3.7 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? 18 [There will be 15 lots for detached single-family homes.]
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: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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	15			
At completion of all phases	15			

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: _____ 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.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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: 6,600 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: 6,600 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_K_application_101724 (29335 : SUB-2024-02SK, 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 _____ 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: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 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	1.495	1.2
• Forested	1.9	1.5	(0.4)
• 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	0.054
• 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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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 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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 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 August 16, 2021

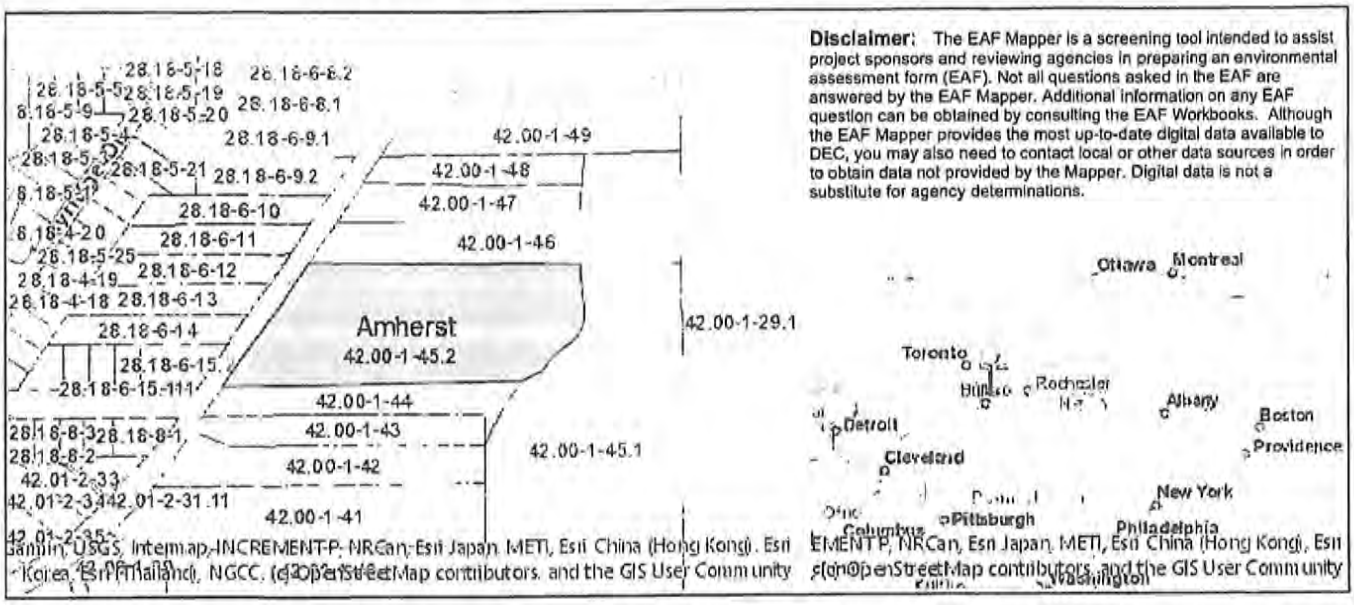
Signature _____ Title Counsel for Project Sponsor

PRINT FORM

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

EAF Mapper Summary Report

Monday, December 21, 2020 3:37 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]	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_K_application_101724 (29335 : SUB-2024-02SK, 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_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

APPENDIX 4 – NYSDEC WETLAND VERIFICATION LETTER

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 | 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

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 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

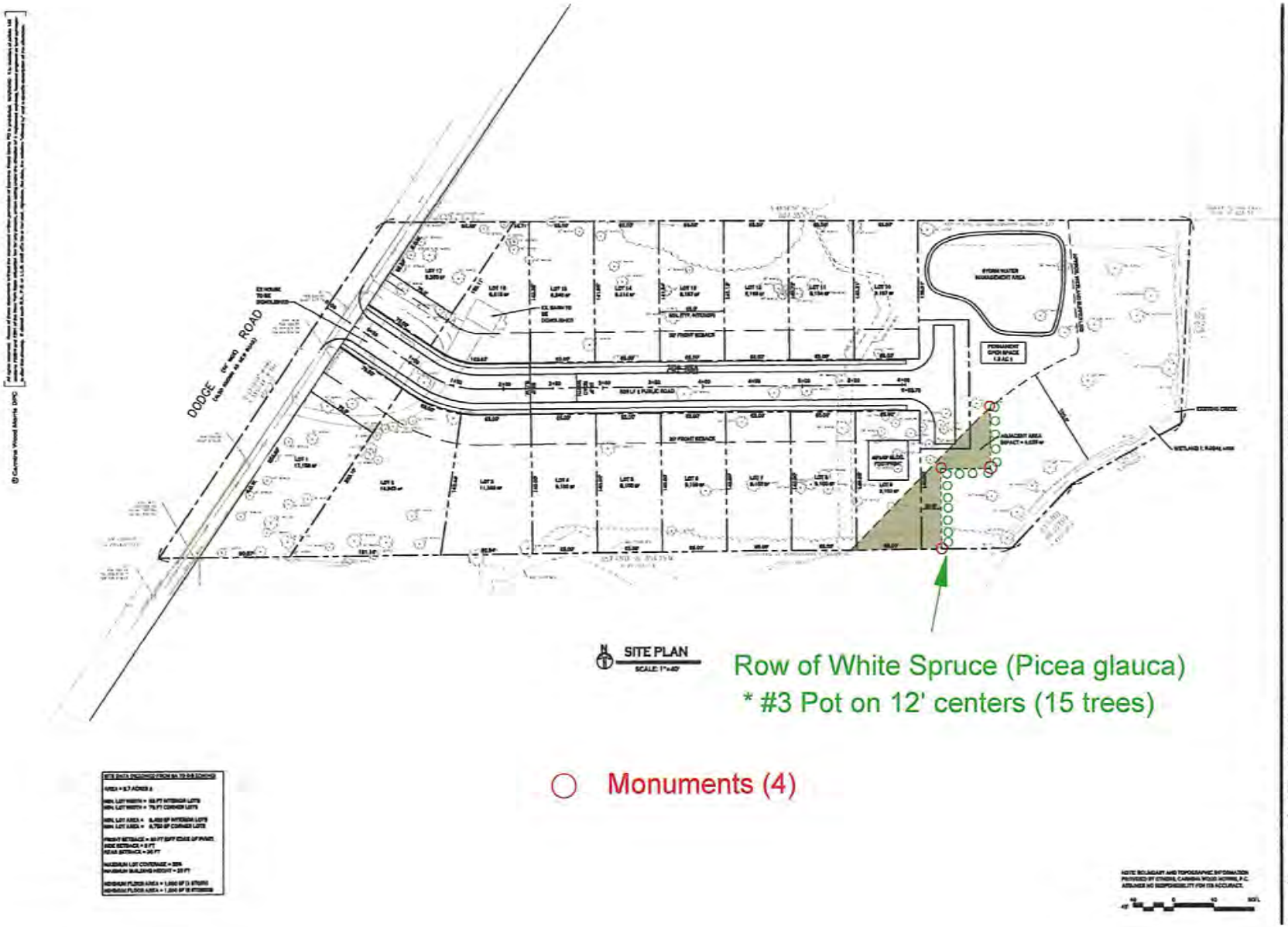
Attach: Survey Requirements
Wetland Information Handout

cc: Ms. Jody Celeste, Earth Dimensions, Inc.
Wetland CC-15 file

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

APPENDIX 5 – TREE PLANTING MAP/MONUMENT PLAN


DODGE ROAD
SITE PLAN
Row of White Spruce (Picea glauca)
* #3 Pot on 12' centers (15 trees)
Monuments (4)
Carmina Wood Morris
PROJECT NAME:
New Construction
Single Family Subdivision
1789 Dodge Road
Amherst, New York
DRAWING NAME:
Site Plan
DRAWING NO.
C-100

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

APPENDIX 6 – JOINT APPLICATION FOR PERMIT

NEW YORK STATE | Department of Environmental Conservation | Office of General Services | Department of State

US Army Corps of Engineers

JOINT APPLICATION FORM

For Permits for activities activities affecting streams, waterways, waterbodies, wetlands, coastal areas, sources of water, and endangered and threatened species.

You must separately apply for and obtain Permits from each involved agency before starting work. Please read all instructions.

1. **Applications To:**

>NYS Department of Environmental Conservation ☑ Check here to confirm you sent this form to NYSDEC.

Check all permits that apply:

- ☐ Stream Disturbance
- ☐ Excavation and Fill in Navigable Waters
- ☐ Docks, Moorings or Platforms
- ☐ Dams and Impoundment Structures
- ☐ 401 Water Quality Certification
- ☑ Freshwater Wetlands
- ☐ Tidal Wetlands
- ☐ Wild, Scenic and Recreational Rivers
- ☐ Coastal Erosion Management
- ☐ Water Withdrawal
- ☐ Long Island Well
- ☐ Incidental Take of Endangered / Threatened Species

>US Army Corps of Engineers ☐ Check here to confirm you sent this form to USACE.

Check all permits that apply: ☐ Section 404 Clean Water Act ☐ Section 10 Rivers and Harbors Act

Is the project Federally funded? ☐ Yes ☑ No

If yes, name of Federal Agency:

General Permit Type(s), if known:

Preconstruction Notification: ☐ Yes ☑ No

>NYS Office of General Services ☐ Check here to confirm you sent this form to NYSOGS.

Check all permits that apply:

- ☐ State Owned Lands Under Water
- ☐ Utility Easement (pipelines, conduits, cables, etc.)
- ☐ Docks, Moorings or Platforms

>NYS Department of State ☐ Check here to confirm you sent this form to NYSDOS.

Check if this applies: ☐ Coastal Consistency Concurrence

2. **Name of Applicant**

Joseph Rubino

Taxpayer ID (if applicant is NOT an individual)

Mailing Address: 5462 Sheridan Drive

Post Office / City: Williamsville

State: NY

Zip: 14221

Telephone: 716-983-1155

Email: JosephRubino@howardhanna.com

Applicant Must be (check all that apply): ☑ Owner ☐ Operator ☐ Lessee

3. **Name of Property Owner (if different than Applicant)**

Mailing Address

Post Office / City

State

Zip

Telephone

Email

For Agency Use Only	Agency Application Number:

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

4. **Name of Contact / Agent**

Scott Livingstone

Mailing Address	Post Office / City	State	Zip
Earth Dimensions, Inc. 1091 Jamison Road	Elma	NY	14059

Telephone 716-655-1717 Email slivingstone@earthdimensions.com

5. **Project / Facility Name**

Single Family Residential Subdivision

Property Tax Map Section / Block / Lot Number: 42.00-1-45.2

Project Street Address, if applicable	Post Office / City	State	Zip
1789 Dodge Road	East Amherst	NY	14051

Provide directions and distances to roads, intersections, bridges and bodies of water

The site is located on the east side of Dodge Road north of the intersection with Brenridge Drive.

☑ Town ☐ Village ☐ City

County	Stream/Waterbody Name
Erie	FWW CC-15 Upland AA

Amherst

Project Location Coordinates: Enter Latitude and Longitude in degrees, minutes, seconds:

Latitude: 43 ° 1 ' 46.956N " Longitude: -78 ° 43 ' 38.352W "

6. **Project Description:** Provide the following information about your project. Continue each response and provide any additional information on other pages. **Attach plans on separate pages.**

a. Purpose of the proposed project:

The proposed project involves the construction of a 17-lot residential subdivision on a 6.7 acre mostly vacant land parcel.

b. Description of current site conditions:

The project area is mostly mown lawn with scattered trees. An existing single family home and outbuilding are located near the Dodge Road frontage.

c. Proposed site changes:

The project will involve the construction a 17-lot residential subdivision with associated infrastructure. The project will require the impact to 6,025 square feet (0.14 acre) of state regulated 100-foot upland adjacent area to FWW CC-15. The proposed impact area is within an existing mown lawn area.

d. Type of structures and fill materials to be installed, and quantity of materials to be used (e.g., square feet of coverage, cubic yards of fill material, structures below ordinary/mean high water, etc.):

No impacts are proposed to any regulated streams.

e. Area of excavation or dredging, volume of material to be removed, location of dredged material placement:

The project does not involve dredging. The site will be graded, with all graded material remaining on site.

f. Is tree cutting or clearing proposed? ☑ Yes If Yes, explain below. ☐ No

Timing of the proposed cutting or clearing (month/year): Unknown

Number of trees to be cut: Acreage of trees to be cleared: 6.7 acres

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

JOINT APPLICATION FORM – Continued. Submit this completed page as part of your Application.

g. Work methods and type of equipment to be used:

Standard construction practices and equipment, including excavators and bull dozers will be utilized during the construction of the project.

h. Describe the planned sequence of activities:

Pollution control (silt fence, silt sock, etc.) will be installed prior to site disturbance. The site will then be cleared and stripped and the stormwater facilities will be installed. Upon completion of initial grading, roads and utilities will be installed followed by construction of the residential structures. Upon completion, the site will be finished graded and stabilized.

i. Pollution control methods and other actions proposed to mitigate environmental impacts:

Standard Blue Book SWPPP measures will be used to prevent sediment from entering waterways or wetlands during construction.

j. Erosion and silt control methods that will be used to prevent water quality impacts:

Silt fence or silt sock will be placed along the approved limits of disturbance. Immediately after final grading, seeding and mulching will take place.

k. Alternatives considered to avoid regulated areas. If no feasible alternatives exist, explain how the project will minimize impacts:

The project has been designed to minimize impacts to the upland adjacent area. The 0.14 acre of upland adjacent area impact is associated with grading requirements for Lot 9 and the proposed road terminus.

l. Proposed use: ☑ Private ☐ Public ☐ Commercial

m. Proposed Start Date: Summer 2022 Estimated Completion Date: Summer 2023

n. Has work begun on project? ☐ Yes If Yes, explain below. ☑ No

o. Will project occupy Federal, State, or Municipal Land? ☐ Yes If Yes, explain below. ☑ No

p. List any previous DEC, USACE, OGS or DOS Permit / Application numbers for activities at this location:

LRB-2020-01691

q. Will this project require additional Federal, State, or Local authorizations, including zoning changes?

☑ Yes If Yes, list below. ☐ No

Town of Amherst Site Plan Approval
Erie County Health Department

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

JOINT APPLICATION FORM – Continued. Submit this completed page as part of your Application.

7. **Signatures.**
Applicant and Owner (If different) must sign the application.
Append additional pages of this Signature section if there are multiple Applicants, Owners or Contact/Agents.

I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief.

Permission to Inspect - I hereby consent to Agency inspection of the project site and adjacent property areas. Agency staff may enter the property without notice between 7:00 am and 7:00 pm, Monday - Friday. Inspection may occur without the owner, applicant or agent present. If the property is posted with "keep out" signs or fenced with an unlocked gate, Agency staff may still enter the property. Agency staff may take measurements, analyze site physical characteristics, take soil and vegetation samples, sketch and photograph the site. I understand that failure to give this consent may result in denial of the permit(s) sought by this application.

False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the NYS Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than $10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

Signature of Applicant | Date: 2/10/22

Applicant Must be (check all that apply): ☑ Owner ☐ Operator ☐ Lessee

Printed Name: Joseph Rubino | Title: Owner

Signature of Owner (if different than Applicant) | Date:

Printed Name: | Title:

Signature of Contact / Agent | Date: 2.10.22

Printed Name: Scott Livingstone | Title: Wetlands Operations Manager

For Agency Use Only **DETERMINATION OF NO PERMIT REQUIRED**

Agency Application Number:

(Agency Name) has determined that No Permit is required from this Agency for the project described in this application.

Agency Representative:

Printed Name: | Title:

Signature: | Date:

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

AUTHORIZATION

The Executors of the Estate of Theresa Lotter, record property owner of 50% of the property located at 10060 Transit Road in the Town of Amherst, New York (the "Property"), hereby authorizes the law firm of Barclay Damon, LLP to file a rezoning application for the Property, along with any and all necessary supporting documentation, including any additional applications or submittals required, with the Town of Amherst, in connection with the approvals sought for the Property.

By: Heidi A. Wieczorek

Heidi A. Wieczorek

Title: Co-Executor

Dated: 4-15-2019

18347390.1

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

FINAL

LAND PURCHASE AGREEMENT

DATE: March ___, 2019

SELLER: Fritz Lotter and The Estate of Theresa Lotter
10060 Transit Road
East Amherst, NY 14051

PURCHASER: Forbes Homes, Inc., its successors and or assigns
470 Cayuga Road
Cheektowaga, NY 14225

ATTORNEY APPROVAL:

This Purchase Agreement is subject to attorney approval of the respective parties within five (5) business days of the Effective Date, hereinafter defined in Paragraph 21 of this Agreement. If approval is not given within five (5) business days of the Effective Date said condition will be deemed waived ("Attorney Approval Contingency").

BACKGROUND INFORMATION:

Seller is the owner of the Premises (defined herein). Seller wishes to sell the Premises as defined in Paragraph 1 (f) of this Agreement to Purchaser and Purchaser wishes to purchase the Premises from Seller.

CONSIDERATION:

In consideration of the promises, the mutual covenants and agreements set forth herein and other good and valuable consideration, Seller and Purchaser agree as set forth below.

1. **DEFINITIONS:**

   a) "Agreement" shall mean this Land Purchase Agreement.

   b) "Closing" shall mean the act of consummating the transactions contemplated in this Agreement.

   c) "Closing Date" means the date on which the Closing occurs as established pursuant to the provisions herein.

   d) "Intended use" means the use of the property as a subparcelled residential development, townhouses, mixed use commercial residential office and development of such property for such use.

   e) "Permitted Exceptions" shall mean, and shall be limited to, public utility easements of record, if any, which do not interfere with Purchaser's Intended Use.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

f) "Premises" shall mean the parcel of land consisting of approximately 24 +/- acres, located at 10060 Transit Road, New York, SBL 29.01-2-5.1.

2. SALE OF PREMISES. Seller agrees to sell to Purchaser and Purchase agrees to purchase from Seller the Premises subject to only the Permitted Exceptions.

Purchaser shall accept the Property subject to Permitted Exceptions, providing they do not conflict with Purchaser's Intended Use.

INITIAL

3. PURCHASE PRICE.

a) ☐ Subject to the adjustments described herein, Purchaser agrees to pay to Seller a total sum calculated at $00,000.00/acre of land, exclusive of delineated on-site wetlands.

Example:

32 total site acres
1-acre delineated wetlands
31 acres exclusive of wetlands x $00,000.00/acre = $000,000.00 Purchase Price

OR

☒ Subject to adjustments described herein, Purchaser agrees to pay to Seller a total sum of [redacted]

b) *Initial Deposit:* Upon acceptance and full execution of this Contract and waiver or expiration of the Attorney Approval Contingency, an Initial Deposit of Ten Thousand and 00/100 Dollars ($10,000.00) shall be delivered to Seller's attorney by Purchaser to be held in escrow by Seller's attorney until the Closing Date or earlier termination of this Agreement. On the Closing Date, said deposit shall be distributed 50 percent ($5,000.00) to Fritz Lotter and 50 percent ($5,000.00) to The Estate of Theresa Lotter.

c) *Additional Deposit:* Upon satisfying all Contingencies described in Paragraph 6, an Additional Deposit of Ten Thousand and 00/100 ($10,000.00) shall be delivered to Seller's attorney by Purchaser to be held in escrow by Seller's attorney until the Closing Date or earlier termination of this Agreement. On the Closing Date, said deposit shall be distributed 50 percent ($5,000.00) to Fritz Lotter and 50 percent ($5,000.00) to The Estate of Theresa Lotter.

d) *Closing Payment:* After deposits, the balance due on this Contract is [redacted] as adjusted pursuant to the term of this Agreement ("Adjusted Purchase Price"), to be paid and distributed as follows:

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

i) On closing and delivery of the Deed to the Premises, Purchaser shall deliver to the Estate of Theresa Lotter the sum of Fifty Percent (50%) of the Adjusted Purchase Price.

ii) On closing and delivery of the Deed to the Premises, Purchaser shall deliver to Fritz Lotter the sum of Twenty- Five Percent (25%) of the Adjusted Purchase Price.

iii) On closing and delivery of the Deed to the Premises, Purchaser shall deliver to Fritz Lotter's attorney, John P. Robshaw Jr., Esq. the sum of Twenty-Five Percent (25%) of the Adjusted Purchase Price.

4. **TITLE.**

a) At its own expense, Seller shall cause to be furnished and delivered to Purchaser's attorneys within fifteen (15) days after full execution of this Contract, a tax and title search fully guaranteed by a title insurance corporation licensed under Article 64 of the Title Insurance Law, which includes a search of indices to bankrupts in the office of the clerk of the United States Bankruptcy Court in the district where the Premises are located, which covers Premises only, is dated subsequent to the date of this Agreement, and with a local tax certificate where not covered by the search. The first set-out of the search shall be the first recorded source of title in the County Clerk's Office where the Premises is located or a deed to an apparent owner recorded prior to 1920.

b) Seller shall credit Purchaser at closing for the cost of a survey that will be prepared by a licensed surveyor of Purchaser's choosing. Purchaser is responsible for payment to surveyor of all costs associated with said survey. The survey shall show the Premises and the location of all borders, easements and rights of way on or affecting the Premises, meet at least the minimum ALTA and Erie County Bar Association standards and shall include staking if desired by Purchaser. Any easement or encroachment appearing on the survey, which is not a Permitted Exception, shall be deemed a title defect under this Agreement.

c) Seller shall deliver good and marketable title to the Premises subject only to the Permitted Exceptions. Seller shall deliver to the agents for such title company as Purchaser shall select such documentation as may be reasonably required for Purchaser to obtain fee title insurance or mortgagee title insurance.

d) Purchaser agrees to notify Seller in writing of any objections to or defects of title at least ten (10) days prior to the Closing Date. Seller shall, at Seller's expense cure such title defects within thirty (30) days thereafter. Seller shall use reasonable efforts to cure any title defects or objections. If Seller cannot cure such title defects, Seller shall pay for title insurance to insure over the Title Defects to the satisfaction of Purchaser and its lender naming Purchaser and its lender as insured which policy shall be ordered and obtained by Purchaser and invoiced to Seller. If Seller, after exercising due diligence and acting in good faith, cannot cure the Title Defects or comply with such requests of the issuer to enable it to insure over the Title Defects

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

to the satisfaction of Purchaser and the Lender, then Purchaser may cancel this Agreement or elect to accept title as Seller can convey. If Purchaser elects to cancel this Agreement, all deposits shall be returned to Purchaser and this Agreement shall terminate without further liability as to either Party.

5. TAXES.

a) Seller shall pay in full all real estate and school taxes, all water and sewer charges, and all installments for special assessments against the Property, due and payable prior to the Closing Date.

b) Any non-delinquent taxes and assessments appearing on current tax bills and water and sewer charges shall be prorated and adjusted as of 12:00 midnight prior to the delivery of the deed.

c) Any agriculture or special tax credit/exemption/conservation program fees, costs or penalties incurred or due as a result of Purchaser's intended development of the Property shall be paid by Seller.

INITIAL

HAW

6. CONTINGENCY. This Contract is contingent on the following:

a) ☐ *Subdivision Approval:* Closing is subject to approval of the subdivision by the appropriate Town, County and State Departments for the contemplated subdivision and is expected to take between 12 and 18 months.

b) ☐ *Site Plan Approval:* Purchaser receiving final site plan approval for Purchaser's Intended Use and development from the local governing bodies of the municipality where the Premises is located.

c) ☐ *Mortgage Financing:* Purchaser receiving a mortgage in an amount not less than $_____, with interest at a rate not greater than ___ percent, with a term not less than _____years, an amortization period not less than ____, a lot release fee not greater than $_____], and other commercially reasonable terms and conditions of Purchaser.

d) *Other Inspection:* Purchaser receiving results acceptable to Purchaser in Purchaser's sole and absolute discretion, of such investigations desired to be performed by Purchaser to determine that the Premises is acceptable to Purchaser for the Intended Use, including without limitation, environmental testing, water testing, investigation as to location and costs to connect utilities, reviewing restrictive covenants, investigating local law and regulation compliance, availability of building permits, soil testing, investigations of zoning, and investigations as to flood plain and wetland status.

e) In the event that any of these Contingencies are not fulfilled or waived by Purchaser within 180 days from the receipt of written confirmation from Seller that the Inspection Records (as defined in Section 14(b)) have been provided to Purchaser,

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

either Seller or Purchaser may terminate this Agreement and all deposits shall be returned to Purchaser.

7. RECORDS. Seller shall promptly provide upon request copies of such real estate tax bills, financial information, and other information or documents relating to the Premises as Purchaser shall reasonably request.

8. REPRESENTATIONS AND WARRANTIES OF SELLER. Seller hereby makes the following representations and warranties to Purchaser, all of which representations and warranties are true and accurate on the date hereof, will be true and accurate on the Closing Date and all of which shall survive Closing:

a) This Agreement constitutes the legal, valid and binding obligation of Seller enforceable against Seller in accordance within its terms.

b) There is no action, proceeding, or investigation pending or, to the best of Seller's knowledge threatened (nor any basis therefore), which questions, directly or indirectly, the validity or enforceability of this Agreement, any easements benefiting or burdening the Premises, any certificates, approvals, permits, licenses or environmental impact statements.

c) Seller has title to the Property and is authorized to enter this Land Purchase Agreement.

d) There are no leases, subleases, occupancy or operating agreements affecting the Premises and all prior leases, subleases, occupancy or operating agreements which may affect the Premises or any part thereof will be terminated, and there are no outstanding rights, duties, liabilities or obligations with respect thereto.

e) No approval, consent, order or authorization of, or designation, registration, declaration or filing (other than for recording purposes) with any governmental authority is required for Seller's valid execution and delivery of and compliance with this Agreement.

f) Seller has not received any notice of or has any knowledge of any violation of any zoning, building, law, ordinance, regulation, rule, condition or restriction affecting the Premises.

g) There are not particles, materials, substances or emissions of a hazardous, toxic, pollutive or ecologically or environmentally damaging nature on or below the surface of the Premises.

h) To the best of Seller's knowledge, the Premises is not within any area determined by the Department of Housing and Urban Development to be flood prone under the Federal Flood Protection Act of 1973 or within any area declared to be wetlands.

© [illegible]

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

9. REPRESENTATIONS AND WARRANTIES OF PURCHASER. Purchaser hereby makes the following representations and warranties to Seller, all of which representations and warranties are true and accurate on the date hereof will be true and accurate on the Closing Date and all of which shall survive Closing:

a) Purchaser shall perform Purchaser's duties and obligations under this Agreement in accordance with the terms and conditions of this Agreement.

b) This Agreement constitutes the valid and binding obligation of Purchaser in accordance with its terms and conditions.

10. COSTS. Seller shall pay for tax and title search to date of Closing and for the survey, transfer tax, filing fee for transfer tax forms, recording fees for any documentation required to clear title, the special additional mortgage tax, if applicable, and premium for the owner's and lender's policy in accordance with Paragraph 4 of this Contract, if applicable. Purchaser shall pay for mortgage tax, fee for recording deed and mortgage, filing fee for Real Property Transfer Report, fee for survey certificate charge as required by Purchaser's Lender (even if mortgage not approved), mortgage holder's assumption and release of liability fees, and, except as otherwise provided in this Contract, all fees, costs and other charges imposed or required by Purchaser's lender. Each party shall pay their own legal and accounting costs and expenses.

11. CASUALTY AND CONDEMNATION. If, prior to Closing, the Premises or any portion thereof is damaged or destroyed by fire or other casualty or taken in a condemnation proceeding by, or sold under threat of condemnation to, an entity exercising the power of eminent domain, so as to render the Premises unsuitable (in the absolute discretion of Purchaser) for the purposes contemplated by this Agreement, Purchaser may terminate this Agreement on notice to Seller, the deposit given to Seller by Purchaser shall be promptly returned and the parties shall be relieved of, and released from, any and all further rights, duties, obligations and liabilities hereunder.

12. BROKER: Seller and Purchaser each represent and warrant that it did not use a broker to bring about this Agreement and agree to indemnify the other for any broker's commission claimed in violation of this representation.

13. CLOSING. The Property shall be closed at the Erie County Clerk's Office within ninety (90) business days of satisfaction or waiver of all Contingencies provided at Article 6, or at such place and time that Seller and Purchaser mutually agree upon (the "Closing Date"). At Closing, Seller shall deliver to Purchaser:

a) A fully executed Warranty Deed with full covenants in recordable form for the Premises, which deed shall be in a form reasonably satisfactory to Purchaser's counsel and which deed shall convey to Purchaser good and marketable fee simple title to the Premises free and clear of all liens and encumbrances except permitted Exceptions.

b) Original receipts for payment of all non-delinquent taxes and assessments appearing on current tax bills and water and sewer charges.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

c) Full and exclusive possession of the Property.

d) All such other documents and payments as Seller is required to deliver pursuant to the terms of this Contract.

e) At Closing, Purchaser shall deliver to Seller, the purchase money Note and Mortgage (if applicable) and all such other documents and payments as Purchaser is required to deliver pursuant to the terms of this Contract.

14. MISCELLANEOUS.

a) From and after the date of this Agreement, Seller will refrain from (i) performing any grading or excavation, construction or removal of any portions of the Premises, or making any other change or improvement upon or about the Premises Property; (ii) creating or incurring, or suffering to exist, any mortgage, lien, pledge, or other encumbrances in any way affecting the Premises; (iii) (a) modifying, terminating or extending any lease of all or part of the Premises; (b) entering into any new lease, rental agreement or operating agreement affecting any part of the Premises; (c) giving Sellers consent to any matter requiring the consent of Seller under any lease, without the prior written approval of Purchaser, with no obligation of Purchaser to give such approval; and (iv) committing any waste or nuisance upon the Premises; and Seller will observe all laws, ordinances, regulations and restrictions affecting the Property and its use.

b) Seller shall deliver within seven (7) days of the Effective Date, true and complete copies of any and all deeds, surveys, specifications, public works agreements, environmental reports, current title reports with supporting documents, deed restrictions, supplemental declarations and covenants and any agricultural or special tax credit/ exemption/ conservation program documents, copies of existing service contracts, copies of bills for current real estate school taxes and assessments, water and sewer charges, together with proof of payment thereof, legal citations, notices or warnings relating to the Premises, insurance claims, copies of title abstracts, profit and loss records, and other records relating to the use or development of the Premises that are within Seller's possession or control (the "Inspection Records"). During the time this Contract remains in full force and effect, Seller agrees that Purchaser, its agents and representatives may enter upon the Property for the purpose of making surveys, test borings, soil analysis, wetland investigation, cultural resource investigation, engineering studies and to perform other activities as Purchaser may deem necessary. Purchaser has the authority to make application to the appropriate agencies for the Intended Use and development and the owner agrees to give written approval for necessary applications to Purchasers for the Intended Use and development of the Premises.

c) Seller shall be allowed to farm the subject premises during the calendar year 2019.

d) During the calendar year 2019, Seller may remove existing soil stockpiles from the subject premises.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

e) Any date specified in this Contract which is a Saturday, Sunday, or legal holiday shall be extended to the first regular business day after such date, which is not a Saturday, Sunday, or legal holiday.

f) This Contract may be executed in several counterparts, each of which shall be deemed an original, but all of which shall constitute one and the same instrument.

g) In the event of any dispute or controversy arising out of or relating to this Contract or the parties' compliance therewith, it is agreed that the exclusive forum for determination of any and all such disputes or controversies shall be the appropriate trial court for the jurisdiction in which the Property is located. Moreover, in addition to any other relief to which it may be entitle, the prevailing party shall be entitled to recover its attorneys' fees and costs incurred in regard to such dispute or controversy. The parties waive their respective rights of trial by jury.

h) This Contract shall be governed by, construed and enforced in accordance with the law of the State of New York.

15. FURTHER ASSURANCES AND SURVIVAL. From time to time, prior to, on or after the Closing date, Seller and Purchaser shall at the request of the other make, execute and deliver or obtain and deliver all such affidavits, deeds, certificates and other instruments and documents, and shall do or cause to be done all such acts or things, which either party may reasonably require in order to more fully perfect the consummation of the transactions contemplated by this Agreement.

16. NOTICES. All notices under this Agreement shall be in writing and shall be given (i) by delivery in person, (ii) by nationally recognized next day courier service, (iii) by first class, registered or certified mail, postage prepaid; (iv) by facsimile, or by (v) electronic mail, or either party at its address set forth below

If to Purchaser:

Forbes Homes, Inc.
470 Cayuga Road
Cheektowaga, NY 14225

Barbara B. Strzemski-Haase, Esq.
Duke, Holzman, Photiadis & Gresens LLP
701 Seneca Street, Suite 750
Buffalo, New York 14210

If to Seller:

Fritz Lotter and The Estate of Theresa Lotter
10060 Transit Road
East Amherst, NY 14051

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

and

John P. Robshaw, Jr., Esq.
Robshaw & Voelkl, P.C.
5672 Main Street
Williamsville, NY 14221

or at such other address as either party may from time to time designate by giving notice in writing to the other party. Seller's and Purchaser's attorneys are hereby authorized to send and receive notices hereunder on behalf of their respective clients. Any such notice, demand, request or communication shall be deemed to have been duly given or served on the date received, on the date shown on the return receipt or other evidence of delivery, if mailed, or on the date shown on the confirmation receipt, if telecopied.

17. ENTIRE AGREEMENT. This Agreement supersedes all prior discussions and agreements between Seller and Purchaser with respect to the transactions contemplated by this Agreement. This Agreement shall not be modified or amended in any respect except by a written agreement executed by or on behalf of the party or parties against which enforcement of such modification or amendment is sought.

18. CAPTIONS. All captions in this Agreement are solely for the purpose of facilitating reference to this Agreement and shall not supplement, limit or otherwise vary the text of this Agreement.

19. SEVERABILITY. If any clause, provision paragraph, or subparagraph of this Agreement or of any exhibit hereto is ruled invalid by any court of competent jurisdiction, the invalidity of such clause, provision paragraph, or subparagraph shall not affect any of the remaining clauses, provisions, paragraphs or subparagraphs of this Agreement or its exhibits.

20. BINDING EFFECT. This Agreement and the covenants, terms and conditions contained herein shall be binding upon and inure to the benefit of the heirs, executors, administrators, successors and assigns of the parties hereto.

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

22. **EFFECTIVE DATE.** This Contract shall become effective on the date last signed (the Effective Date).

PURCHASER: Forbes Homes, Inc.

By: _____ Date: 3/22/19
David J. Capretto, President

SELLER:

By: _____ Date: 3/22/19
Fritz Lotter

The Estate of Theresa Lotter

By: _____ Date: 3/27/19
David Lotter, Co-Executor

By: _____ Date: 3/22/19
Mark Lotter, Co-Executor

By: _____ Date: _____
Heidi Lotter, Co-Executor

Attorney for Purchaser:

Barbara B. Strzemski-Haase, Esq.
Duke, Holzman, Photiadis & Gresens LLP
701 Seneca Street, Suite 750
Buffalo, New York 14210
(716) 855-1111
(716) 855-0327
bstrzemski-haase@dhpglaw.com

Attorney for Seller:

John P. Robshaw, Jr.
Robshaw & Voelkl, P.C.
Attorney and Counselor at Law
5672 Main Street
Williamsville, NY 14221
(716) 633-4030
(716) 633-8154 Fax
jrobshaw@robshawlaw.com

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

21. **EFFECTIVE DATE.** This Contract shall become effective on the date last signed (the Effective Date).

PURCHASER: Forbes Homes, Inc.

By: _____ Date: _____
David J. Capretto, President

SELLER:

By: _____ Date: _____
Fritz Lotter

The Estate of Theresa Lotter

By: _____ Date: _____
David Lotter, Co-Executor

By: _____ Date: _____
Mark Lotter, Co-Executor

By: Heidi A Wieczorek Date: 3-26-19
~~Heidi Lotter~~, Co-Executor
Heidi A. Wieczorek

Attorney for Purchaser:

Barbara B. Strzemski-Haase, Esq.
Duke, Holzman, Photiadis & Gresens LLP
701 Seneca Street, Suite 750
Buffalo, New York 14210
(716) 855-1111
(716) 855-0327
bstrzemski-haase@dhgglaw.com

Attorney for Seller:

John P. Robshaw, Jr.
Robshaw & Voelkl, P.C.
Attorney and Counselor at Law
5672 Main Street
Williamsville, NY 14221
(716) 633-4030
(716) 633-8154 Fax
jrobshaw@robshawlaw.com

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

ADDENDUM
TO CONTRACT OF SALE DATED
MARCH 22, 2019
BETWEEN
FRITZ LOTTER AND THE ESTATE OF THERESA LOTTER
AND
FORBES HOMES, INC., ITS SUCCESSORS AND/OR ASSIGNS
FOR PROPERTY LOCATED AT
10060 TRANSIT ROAD

---

1. The above Contract of Sale is made contingent upon the receipt by Purchaser of all necessary subdivision and other local, state and federal approvals of the property for its Intended use ("Intended use Approvals") in Purchaser's sole and absolute discretion. In the event the Purchaser does not receive the Intended use Approvals in Purchaser's sole and absolute discretion, Purchaser may terminate this Agreement.

2. The Purchaser shall provide an additional deposit in the amount of [redacted] which, together with the previous deposit of [redacted] shall be non-refundable.

3. The Purchase Price shall increase by [redacted] for each 30 days the Closing Date is delayed after December 25, 2019, or any pro-rata portion thereof for any period less than 30 days, payable at Closing.

4. All other terms and conditions of said Contract shall remain in full force and effect.

5. This Addendum may be signed in counterpart and via electronic signatures.

Dated: September 25, 2019

Fritz Lotter

Fritz Lotter

The Estate of Theresa P. Lotter

Mark Lotter, Co-Executor

David Lotter

Heidi Lotter Wieczorek

Forbes Homes, Inc.

Representative Date

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

ADDENDUM
TO CONTRACT OF SALE DATED
MARCH 22, 2019
BETWEEN
FRITZ LOTTER AND THE ESTATE OF THERESA LOTTER
AND
FORBES HOMES, INC., ITS SUCCESSORS AND/OR ASSIGNS
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Dated: September ____, 2019

Fritz Lotter

The Estate of Theresa P. Lotter

Mark Lotter, Co-Executor

David Lotter

Heidi Lotter Wieczorek

Forbes Homes, Inc.

Representative Date

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

ADDENDUM
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4. All other terms and conditions of said Contract shall remain in full force and effect.

5. This Addendum may be signed in counterpart and via electronic signatures.

Dated: September 25, 2019

Fritz Lotter

The Estate of Theresa P. Lotter

Mark Lotter, Co-Executor

David Lotter

Heidi A Wieczorek 9/25/19

Heidi Lotter Wieczorek

Forbes Homes, Inc.

Representative Date

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)



SITE DATA:

MIXED USE COMMERCIAL (1ST FLOOR SQFT)	44,570±
MIXED USE OFFICE (2ND FLOOR SQFT)	44,570±
MIXED USE APARTMENT (3RD-5TH FLOOR, UNITS/FLOOR)	454
TOWNHOME UNITS (TRADITIONAL NEIGHBORHOOD ATTACHED)	184
SINGLE FAMILY (TRADITIONAL NEIGHBORHOOD DETACHED)	344
SINGLE FAMILY (NC)	299
REQUIRED PARKING	0 MINIMUM
PROVIDED PARKING (ON-STREET, TRANSIT ROAD)	420
PROVIDED PARKING (ON-STREET, NEIGHBORHOOD)	324
PROVIDED PARKING (MU, REAR)	1172
PROVIDED PARKING (TOTAL)	1916

Town of Amherst
ERIE COUNTY NEW YORK

Ashley Green
10080 & 10090 Transit Road, Amherst
ERIE COUNTY, NEW YORK STATE

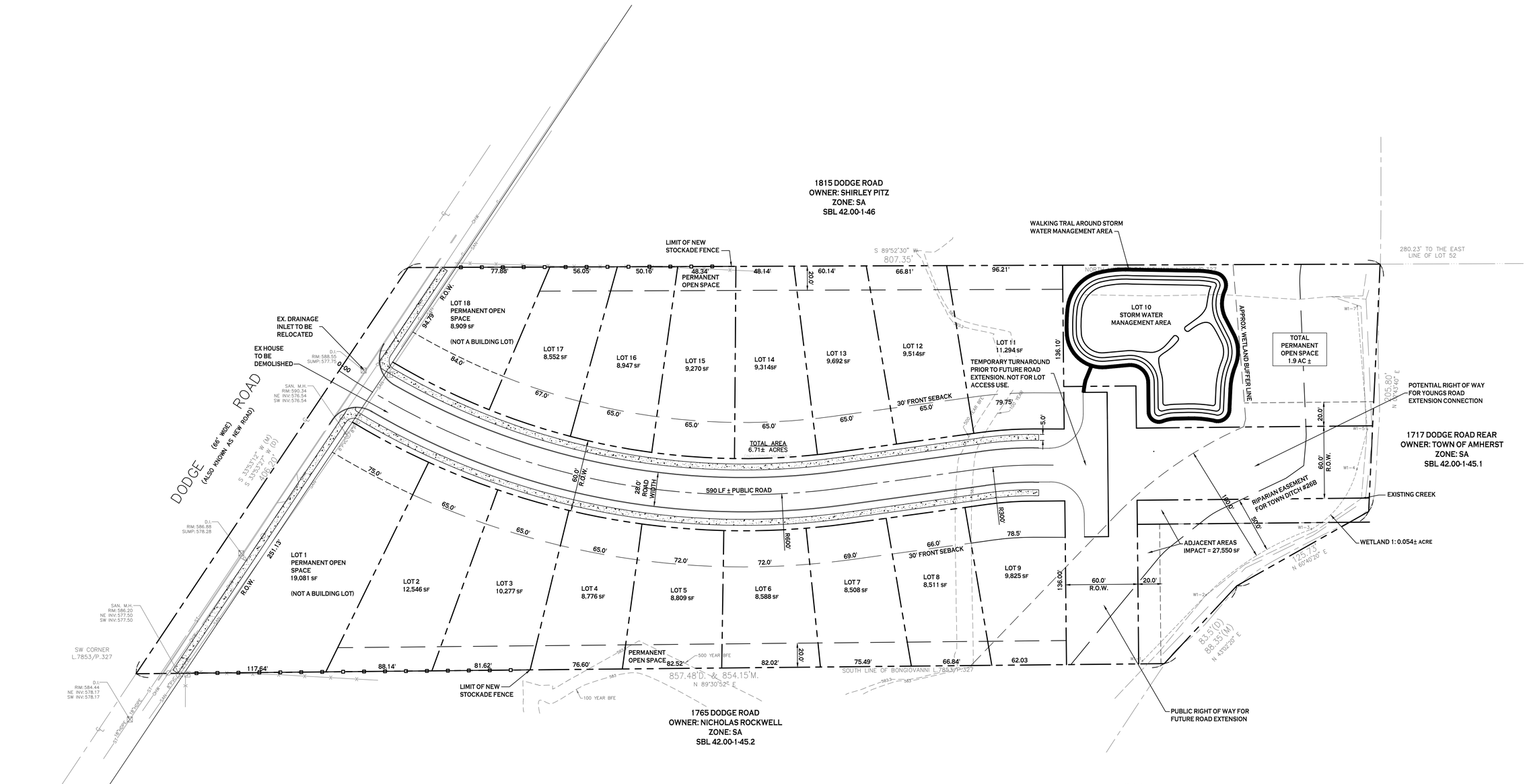
CONCEPT PLAN

1 of 1

Attachment: SUB-2024-02_K_application_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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SITE PLAN

SCALE: 1"=40'

SITE DATA (ZONED R-3)
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)

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

40' 40 0 40 80Ft.

CARMINAWOOD
DESIGN
Buffalo | Utica | Greensboro

Single Family Subdivision

1789 Dodge Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024

PRELIMINARY
NOT FOR CONSTRUCTION

DRAWING NAME:
Sketch Plan

Date: 08.14
Drawn By: C. W
Scale: As No

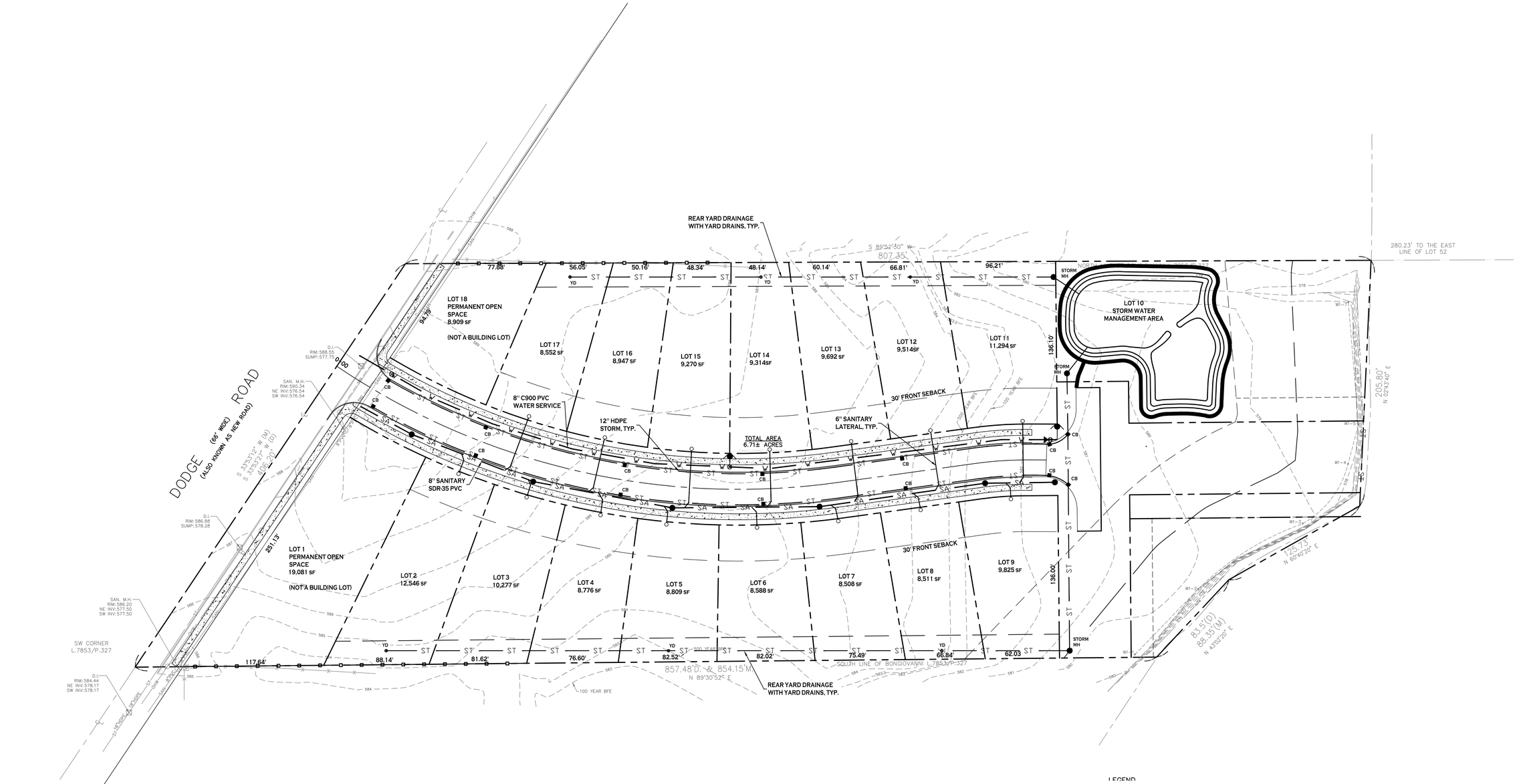
DRAWING NO.
C-100

Project No: 20.247

Attachment: SUB-2024-02_K_drawings_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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SITE PLAN

SCALE: 1"=40'

SITE DATA (ZONED R-3)
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)

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

40' 40 0 40 80Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Single Family Subdivision

1789 Dodge Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Rev. Per Town Comments	9/19/2024

PRELIMINARY
NOT FOR CONSTRUCTION

DRAWING NAME:
Concept Utility Plan

Date: 08.14
Drawn By: C. W
Scale: As No

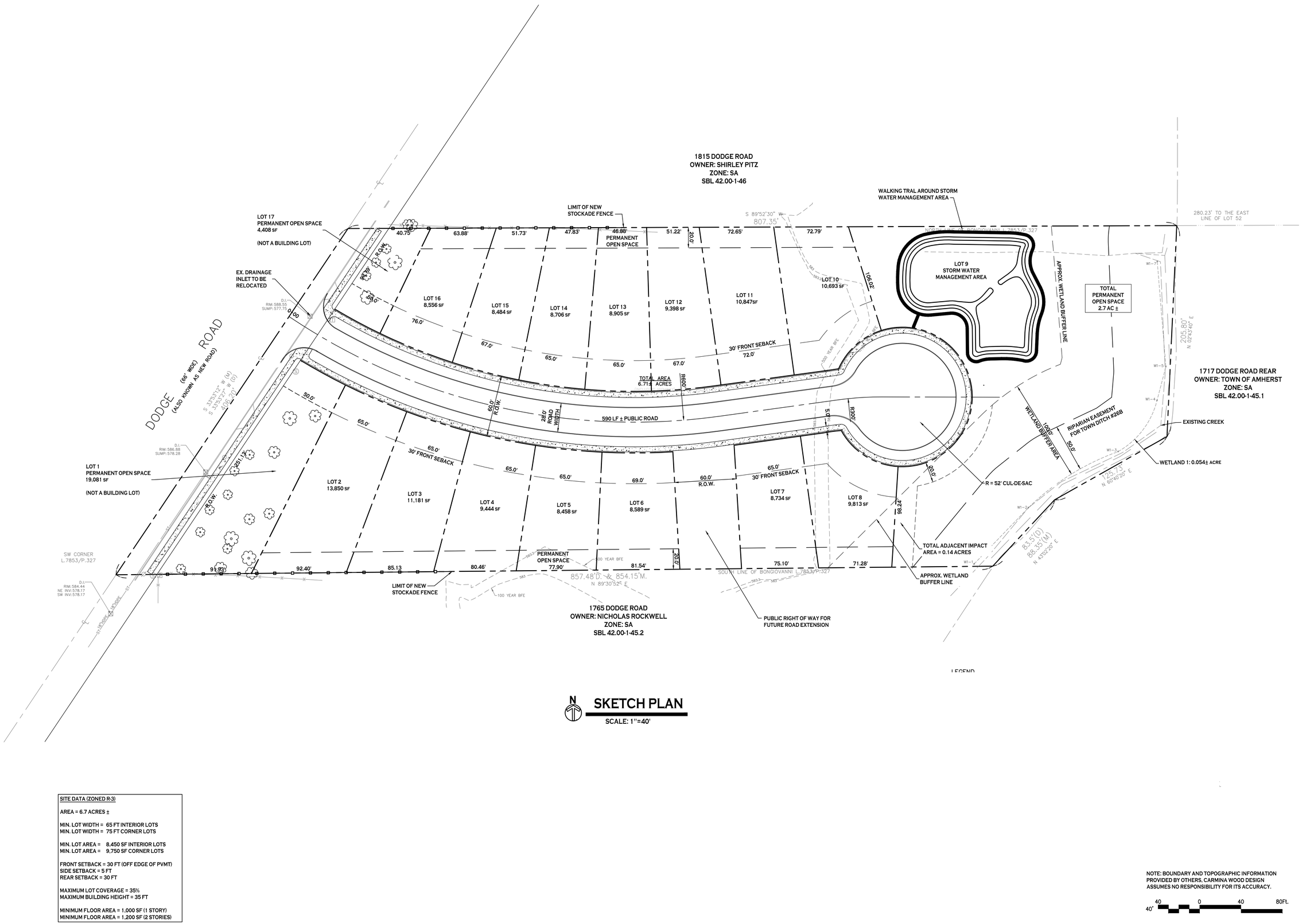
DRAWING NO.
C-101

Project No: 20.247

Attachment: SUB-2024-02_K_drawings_101724 (29335 : SUB-2024-02SK, 1789 Dodge Road)

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SKETCH PLAN

SCALE: 1"=40'

SITE DATA (ZONED R-3)

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)

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

40' 40 0 40 80Ft.

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Single Family Subdivision

1789 Dodge Road
Amherst, New York

REVISIONS:

No.	Description	Date

Attachment: Revised Sketch Plan uploaded 10/16/24 (29335 : SUB-2024-025K, 1789 Dodge Road)

PRELIMINARY
NOT FOR CONSTRUCTION

DRAWING NAME:
Sketch Plan

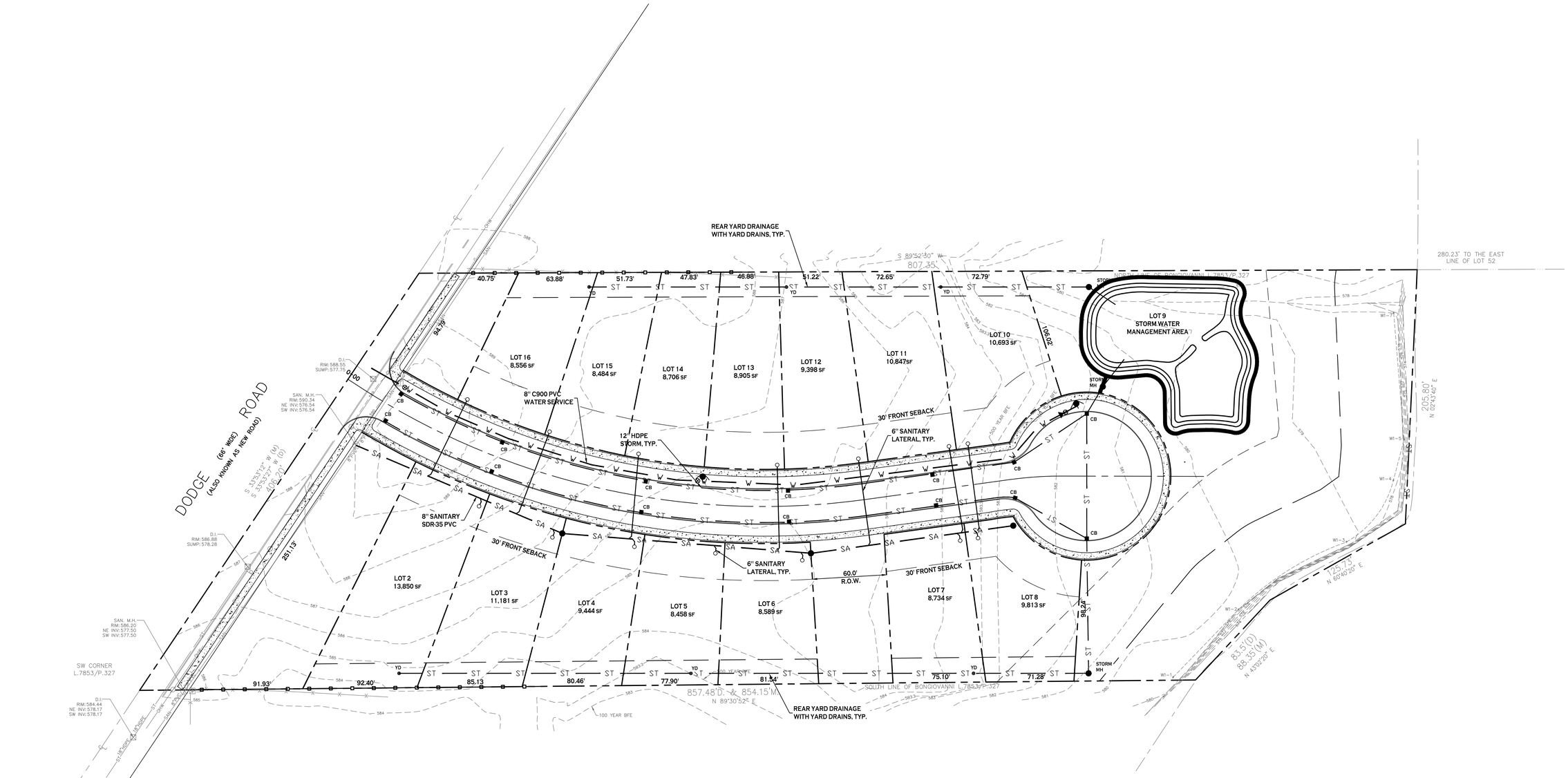
Date: 10.14
Drawn By: C. W
Scale: As No

DRAWING NO.
C-100

Project No: 20.247

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SITE PLAN

SCALE: 1"=40'

SITE DATA (ZONED R-3)
AREA = 6.7 ACRES ±
MIN. LOT WIDTH = 65 FT INTERIOR LOTS
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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)

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

40' 40 0 40 80Ft.

CARMINAWOOD
DESIGN
Buffalo | Utica | Greensboro

Single Family Subdivision

1789 Dodge Road
Amherst, New York

REVISIONS:		
No.	Description	Date

Attachment: Revised Concept Utility Plan uploaded 10/16/24 (29335 : SUB-2024-025K, 1789 Dodge Road)

PRELIMINARY
NOT FOR CONSTRUCTION

DRAWING NAME:
Concept Utility Plan

Date: 08.14
Drawn By: C. W
Scale: As No

DRAWING NO.
C-101

Project No: 20.247

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

ADOPTED

Meeting: 10/17/24 06:30 PM
Department: Planning
Category: Miscellaneous
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 29497

PLANNING BOARD ITEM (ID # 29497)

2025 Planning Board Meeting Calendar

COMMENTS - Current Meeting:

Approved with Changes (in italics)

Planning Board Meeting

Thursday 6:30 Pm

1/16/2025

2/20/2025

3/20/2025

4/17/2025

5/15/2025

6/19/2025

No July Meeting

08/21/2025

09/18/2025

10/16/2025

11/20/2025

No December Meeting

01/15/2026

2/19/2026

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Brittany Lee Penberthy, Board Member
SECONDER:	Dal Giuliani, Board Member
AYES:	Chmiel, Davis, Giuliani, Penberthy, Raffaele Jr.
ABSENT:	Harbinder Gill, Carrie H. Kahn