MINUTES
TOWN OF AMHERST
AMHERST PLANNING BOARD MEETING
October 16, 2025
6:30 PM

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

This meeting is being video recorded.

ROLL CALL

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

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

MINUTES APPROVAL

September 5, 2025
Mr. O'Rourke moved to approve the minutes. The motion was seconded by Ms. Kahn and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

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 AMENDMENT TO MULTI-FAMILY DEVELOPMENT, SP-2023-05_A
Property located at 468-496 Dodge Road (NCD)
The Green Organization, Petitioner

Proposed addition of 16 units to the previously approved 92-unit residential development consisting of two 3-story apartment buildings (42 units each), located along the north property line, six 2-story townhome buildings (4 units each) located along the Dodge Road frontage, for a total of 108 units and 241 parking spaces (including 38 garage spaces), stormwater management facilities, landscaping and other ancillary site improvements.

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

In response to the Board's questions, Mr. Hopkins showed locations where recreational spaces could be created on the site plan.

Rebecca Hussak, 395 Dodge Road; Diana Zito, 387 Dodge Road; Brenda Burow, 425 Dodge Road; Shania Brown, 415 Dodge Road; and Mary Belotta, 501 Dodge Road spoke in opposition to the proposal.

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

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

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

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

SUBDIVISIONS & RELIEF FROM CONDITIONS OF SUBDIVISIONS

None

REZONING & RELIEF FROM CONDITIONS OF REZONINGS

2. REQUEST FOR RELIEF OF CONDITIONS OF REZONING APPROVAL, Z-2007-03_A
Property located at 330 Maple Road
716 Sports Complex LLC, Petitioner

The petitioner is requesting that conditions/restrictions imposed as part of the Town Board's approval of June 2, 2008 for the rezoning of 28.11 acres of land from CF to GB (Z-2007-03) be amended or deleted to allow for the potential future use of the site for a Sports Complex containing 500,000 ± sq. ft. of building area, that is comprised of two domed indoor sports venues that are 137,500 sq. ft. each (500 feet long, 275 feet wide and 100 feet in height), a 2 story 50,000 sq. ft. commercial/retail building that connects the two domes and a free standing 5 story, 175,000 sq. ft. hotel with 150 rooms.

The petitioner is proposing to remove the previous restrictions below:

. The creation of a 4.5-acre conservation project area, 101 feet in depth, fronting Maple Road on property described in Schedule "B"
. The Brownfield Cleanup Program will be instituted in a manner that results in the project site being cleaned to New York State Department of Environmental Conservation residential standards
. No single retail user shall be greater than 50,000 square feet in size.
. A maximum building height limitation of 50 feet for any structure.
. No freestanding drive-thru fast-food restaurants.
. No freestanding drive-thru pharmacies.
. Petitioners, their successors and assigns agree to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

The petitioner is proposing the following new restrictions to replace the restrictions to be deleted:

. There shall be a 101 ft. wide conservation area located along the Maple Road frontage of the Project Site ("Conservation Area"). There shall not be any buildings or parking spaces located in the Conservation Area. The only development permitted in the Conservation Area shall consist of driveway connections to Maple Road and improvements necessary for the development of the Project Site.
. The Declarant shall comply with the requirements imposed by the NYS Department of Environmental Conservation relative to the Brownfield Clean Up Program in connection with the development of the Project Site.
. No freestanding drive-thru fast food restaurants shall be permitted on the Project Site.
. No freestanding drive-thru pharmacies shall be permitted on the Project Site.

- The Declarant agrees to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

Brian McGrath, 4225 Genesse Street; Marc Fineberg, 208 S. Cayuga Road; and Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, represented the petitioner, explained the proposal and were available to answer questions from the Board. David Johnson, LaBella Associates was also present.

In response to the Board's questions, Mr. Hopkins stated there would be drainage issues if the project were built into the ground to keep the height lower, the proposed complex would be built 330' from the south side of Maple Road, a downstream sewer capacity analysis will be done during the site plan process and this project is being proposed by private investors. Mr. Johnson stated there are approximately 14 domes of similar size and height in NYS and the domes are built for our weather conditions. Mr. McGrath stated that building a similar complex as a solid structure would triple the cost.

Donalad Lawrence, 22 Coolidge Avenue, Lockport, NY; Dan Ryder, 38 Garden Parkway; Kelsey Ryan, 34 Coolidge Drive; Rebecca Hussak, 395 Dodge Road; Ed Greenway, 65 Laurie Lea; Jason Bibler, 231 Walton Drive; Steven McDonald, 17 Crystal Springs Lane; Cheryl Patterson, 365 Maple Road; Bill Maher, 215 Louvane Drive; Doug Hoffsass, 5933 Main Street; Karin Genevies, 30 Belvoir Road; Britton Mann, 1300 Elmwood Avenue; Darren Prestley, 712 Ashland Avenue, Buffalo, NY; Robert Fox, 8966 Woodview Drive, Colden, NY; and Dan Gronkowski, 337 North Rockingham Way spoke in favor of the proposal.

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

Following discussion, Mr. Davis moved to approve the request based on the resolution. The motion was seconded by Mr. Gill and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

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

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

3. REQUEST FOR RELIEF TO CONDITIONS OF SITE PLAN APPROVAL, SP-2025-03_A
Property located at 4548 & 4564 Main Street and 17 Fruehauf Avenue
Benderson Development Company LLC, Petitioner

The petitioner is requesting that condition number 11 of the Planning Board's resolution of approval dated September 25, 2025 be rescinded due to the extreme costs and uncertainty involved in complying with the requirement. The Planning Board has not made a similar condition for other similar projects that have been constructed in the Town. Parking is provided for 74 vehicles and is integral to the building. 45 parking spaces are located in the basement level which will be accessed via Fruehauf Avenue with 29 parking spaces being located on the 1st floor level and accessed via Chateau Terrace.

Following discussion, Mr. Gill moved to approve the request based on the resolution. The motion was seconded by Mr. Davis and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

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

SUBDIVISIONS & RELIEF FROM CONDITIONS OF SUBDIVISIONS

4. FINAL PLAT REVIEW FOR A 23-LOT SUBDIVISION "PARK GARDENS", SUB-2025--01_FP (AKA SP-2024-05_A)
Property located at 4774-4780 Sheridan Drive
4780 Sheridan Drive, Petitioner

Proposed subdivision of 5.03 acres into 23 parcels comprised of eleven (11) 2-unit townhome buildings with attached garages (22 units) and a common area lot along with the site, utility & lighting improvements. Number of units, and layout/location of buildings, drive and stormwater management practice remain the same as the previously-approved Site Plan (SP-2024-05.)

As part of the Preliminary Plat Approval, the Planning Board granted waivers to certain subdivision standards prior to taking action on the Preliminary Plat. The requested waivers to §204 of Town Code relate to design standards for the private street include:

- §204-3-2-4(1) – not providing required sidewalks on both sides of the private street,
- §204-3-2-4(1) – not providing required planting strips on both sides of the private street,
- §204-3-2-4 G – not providing required upright curbs on the private street, and
- §204-3-2-4A(7)(e) – not continuing the property lines to the centerline of the private roadway

On April 15, 2025 the Zoning Board of Appeals granted the following area variances:

- SECTION: 3-9-2B(2) (lot area)
- SECTION: 3-9-2B(2) (lot width)
- SECTION: 3-9-2B(2)(front setback)
- SECTION: 3-9-2B(2) (rear setback)
- SECTION: 3-9-2B(2) (side yard)
- SECTION: 3-9-2B(2)(building coverage

September 25, 2025

Following discussion, Ms. Penberthy to adjourn the proposal to the October Planning Board meeting. The motion was seconded by Mr. Gill and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

October 16, 2025

Following discussion, Mr. O'Rourke moved to adjourn the proposal until the required documents are received by the Planning Department. The motion was seconded by Ms. Kahn and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

RESULT:	**ADJOURNED [UNANIMOUS]**	**Next: 11/20/2025 6:30 PM**
MOVER:	Jonathan O'Rourke, Board Member	
SECONDER:	Carrie H. Kahn, Board Member	
AYES:	Chmiel, Davis, Gill, Kahn, O'Rourke	
ABSENT:	Penberthy, Raffaele Jr.	

REZONING & RELIEF FROM CONDITIONS OF REZONINGS

None

MISCELLANEOUS

5. 2026 PLANNING BOARD MEETING CALENDAR

Following discussion, Mr. Gill moved to approve the proposed 2026 meeting schedule with a condition that if any of the dates fall on a Buffalo Bill's game the Board considers rescheduling the meeting. The motion was seconded by Mr. Chmiel and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

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

OTHER COMMUNICATIONS

None

DIRECTOR'S REPORT

ADJOURNMENT

The Planning Board meeting of October 16, 2025 was adjourned at 8:32 pm.

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

Meeting: 10/16/25 06:30 PM
Department: Planning
Category: Site Plan and Relief from Conditions of Site Plan
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 30837

ADOPTED

PLANNING BOARD ITEM (ID # 30837)

Proposed Amendment to Multi-Family Development, SP-2023-05_A

Property located at 468-496 Dodge Road (NCD)
The Green Organization, Petitioner

Proposed addition of 16 units to the previously approved 92-unit residential development consisting of two 3-story apartment buildings (42 units each), located along the north property line, six 2-story townhome buildings (4 units each) located along the Dodge Road frontage, for a total of 108 units and 241 parking spaces (including 38 garage spaces), stormwater management facilities, landscaping and other ancillary site improvements.

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

In response to the Board's questions, Mr. Hopkins showed locations where recreational spaces could be created on the site plan.

Rebecca Hussak, 395 Dodge Road; Diana Zito, 387 Dodge Road; Brenda Burow, 425 Dodge Road; Shania Brown, 415 Dodge Road; and Mary Belotta, 501 Dodge Road spoke in opposition to the proposal.

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

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

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

ATTACHMENTS:

- SP-2023-05_A_application_101625 (PDF)
- SP-2023-05_A_drawings_101625 (PDF)
- SP-2023-05A signed neg dec 101625 (PDF)
- SP-2023-05A signed resolution 101625 (PDF)

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

Prepared By:
Sean Hopkins, Esq.
Hopkins Sorgi & McCarthy PLLC
5500 Main Street, Suite 343
Williamsville, NY 14221
Tel: 716.510-4338
E-mail: shopkins@hsmlegal.com

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	$1,200.00
Request for Relief of / Change to Conditions of Site Plan Approval	$1,200.00	_____
Request for Extension of Site Plan Approval	$ 450.00	_____
Stormwater Pollution Prevention Plan		
1 - 4.99 Acres	$ 500.00	_____
5 - 10 Acres	$ 750.00	_____
>10 Acres	$1,000.00	_____
Affidavit Fee for Public Hearing	$ 15.00	$15.00
	TOTAL FEE:	**$** 1,215.00

To Be Completed By Applicant

Petitioner:

Name: The Green Organization c/o Sean Hopkins, Esq.

Address: 35 California Road, Suite 100

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

Phone: 716-510-4338 Fax: _____

E Mail: shopkins@hsmlegal.com

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

Name: Carmina Wood Design [Patrick Sheedy Jr, PE]

Address: 80 Silo City Row, Suite 100

Buffalo (city) New York (state) 14203 (zip code)

Phone: 716-842-3165 Fax:

E Mail: psheedy@carminawooddesign.com

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

Address: 480 Dodge Road

SBL No(s): 41.06-1-8.1

Project Name: Proposed Multifamily Project

Project Description: See attached Exhibit "1" for a description of the proposed multifamily project. A completed Part 1 of the Full Environmental Assessment Form prepared pursuant to the State Environmental Quality Review Act ("SEQRA") is attached as Exhibit "2". Reduced-size copies of the Site Plan [Drawing C-100] and Landscape Plan [Drawing L-100] are attached as Exhibit "3".

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

The 3-story, 36-unit buildings have been revised to remove the previously proposed 3 bedroom units and replace with more 1 and 2 bedrooms units. The 3-story buildings now propose 18 one bedroom and 24 two bedroom units for a total of 42 units each. The previously proposed clubhouse/amenity area has been removed and replaced with another 4-unit townhouse building along the Dodge Road frontage. These changes result in a total of 108 units proposed, an increase from the previously approved 92 units.

	existing	proposed	total
Gross Floor Area (non-residential):	11,750 sf	0 sf	0 sf
Gross Floor Area Residential:	0	0	0
Number of Residential Units:	0	108	108
Number of Parking Spaces:	19	241	241

Acreage of Parcel: 5.17 acres

(list each parcel separately)

Frontage on Public Roads: 730 ft. of frontage on Dodge Road

(list each road separately)

Existing Zoning District(s) New Community District - General Commercial ("NCD-GC")

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

EXHIBIT 1

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

EXHIBIT 1 OF SITE PLAN AMENDMENT APPLICATION

PROJECT DESCRIPTION - MULTIFAMILY PROJECT
468-496 DODGE ROAD [FORMERLY 480 DODGE ROAD]

I. Description of the Multifamily Project:

The Applicant is seeking approval of an Amended Site Plan from the Planning Board in connection with the proposed multifamily project to be located the approximately 5.17 acre parcel located at 480 Dodge Road ("Project Site"). The Project Site is properly zoned NCD-GC pursuant to the Town of Amherst Zoning Map. The previous project that consisted of 92 residential units for lease received Site Plan Approval from the Planning Board on September 21, 2023. A copy of the resolution adopted by the Planning Board on September 21, 2023 granting Site Plan Approval for the previously approved project is provided at **Exhibit "5".**

The modified layout for the project consists of two three-story multifamily buildings to be located on the northern portion of the Project Site as was previously approved by the Planning Board and two-story townhome buildings to be located along the Dodge Road frontage. The previously proposed community building along the Dodge Road frontage has been eliminated and replaced with a two-story townhome building as depicted on project plans previously submitted to the Planning Department. The number of units to be leased has been increased from 92 units to 108 units primarily as a result of the elimination of three-bedroom units and modifying the floor plan for the three-story multifamily buildings.

The project also includes parking spaces, landscaping, lighting, a stormwater management system and required utility connections and improvements. The layout of the project is depicted on the full-size copy of the Site Plan [Drawing C-100] prepared by Carmina Wood Design.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Reduced-size copies of the Site Plan [Drawing C-100] and Landscape Plan [Drawing L-100] are provided at **Exhibit "3".**

A completed Part 1 of the Full Environmental Assessment Form prepared pursuant to the State Environmental Quality Review Act ("SEQRA") with Attachments "A" and "B" is provided at **Exhibit "2".** The proposed modifications to the previously approved project, which involves the redevelopment of the former Arbordale Nursery location, will not result in any potentially significant adverse environmental impacts. A copy of the Negative Declaration issued by the Planning Board pursuant to SEQRA on September 21, 2023 is provided at Attachment "A" of Part 1 of the Full Environmental Assessment Form.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

EXHIBIT 2

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Proposed Multifamily Project		
Project Location (describe, and attach a general location map): 468-496 Dodge Road [Formerly 480 Dodge Road] - Town of Amherst - Erie County [SBL: 41.06-1-8.1]		
Brief Description of Proposed Action (include purpose or need): The proposed project ("action") consists of a proposed 108 unit multifamily project to be located on a parcel of property located at 480 Dodge Road ("Project Site"). The proposed action has been defined broadly to include all required discretionary approvals and permits including Site Plan Approval from the Town of Amherst Planning Board as well as all proposed site improvements including proposed multifamily buildings, driveway connections onto Dodge Road, lighting, on-site storm water management improvements, landscaping and all required utility improvements. The project represents a modification of the project consisting of 92 units that received Site Plan Approval from the Planning Board on September 21, 2023. A copy of the Negative Declaration issued by the Planning Board pursuant to SEQRA on September 21, 2023 is provided at Attachment "A". The minor proposed modifications to the previously approved project layout will not result in any potentially significant adverse environmental impacts and as such the issuance of a Negative Declaration is justified.		
Name of Applicant/Sponsor: The Green Organization, Inc. c/o Sean Hopkins, Esq.	Telephone: 716-510-4338 E-Mail: shopkins@hsmlegal.com	
Address: 35 California Drive, Suite 100		
City/PO: Williamsville	State: NY	Zip Code: 14221
Project Contact (if not same as sponsor; give name and title/role):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Greens on Dodge II LLC c/o Sean Hopkins, Esq.	Telephone: E-Mail:	
Address: 35 Calfornia Drive, Suite 100		
City/PO: Williamsville	State: NY	Zip Code: 14221

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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		
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Site Plan Amendment	August 2025
c. City, Town or Village Zoning Board of Appeals ☐Yes ☐No		
d. Other local agencies ☑Yes ☐No	Building Department - Demolition & Building Permits, Eng. Dept. - Stormwater Permit	TBD
e. County agencies ☑Yes ☐No	ECDPW - Highway Work Permit, ECWA - water; and ECDOH - Water and Sewer	TBD
f. Regional agencies ☐Yes ☐No		
g. State agencies ☑Yes ☐No	NYSDEC - SPDES & DSCA	TBD
h. Federal agencies ☐Yes ☐No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☐No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☐No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☑Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☐No

If Yes, identify the plan(s):

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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?
New Community District General Commercial ["NCD-GC"].

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☐ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Williamsville Central School District

b. What police or other public protection forces serve the project site?
Town of Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?
Getzville Fire Company

d. What parks serve the project site?
Walton Woods Park

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)? Multifamily consisting of residential units for lease.

b. a. Total acreage of the site of the proposed action? 5.17 acres
b. Total acreage to be physically disturbed? 5.17 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 7.03 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☐ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☐ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☐ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

f. Does the project include new residential uses? ☑ Yes ☐ No

1.a

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				108
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☐ Yes ☐ No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑ Yes ☐ No

If Yes,

i. Purpose of the impoundment: Stormwater retention

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑ Other specify: Stormwater runoff from proposed development

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: 0.2 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):

The stormwater management area will consist of fill and does not constitute a regulated dam as defined by the NYSDEC

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐ Yes ☐ No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☐ No
If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐ Yes ☐ No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☐ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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: 21,780 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐ Yes ☐ No
If Yes:

- Name of district or service area: ECWA Consolidated Water District
- Does the existing public water supply have capacity to serve the proposal? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☑ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 19,800 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
Sanitary wastewater

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑ Yes ☐ No
If Yes:

- Name of wastewater treatment plant to be used: Town of Amherst Wastewater Treatment Plant
- Name of district: Town of Amherst Consolidated Sewer District
- Does the existing wastewater treatment plant have capacity to serve the project? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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 3.35 acres (impervious surface)

_____ Square feet or 5.17 acres (parcel size)

ii. Describe types of new point sources. Building roofs, surface parking areas

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

On site stormwater management facility

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☐ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☐ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☐ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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? [Copies of the Traffic Impact Study prepared by Passero Associates dated March 13, 2023 have been submitted with the Site Plan Application.] ☐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: 7:00am to 5:00 pm [as needed]
- Sunday: as needed
- Holidays: n/a

ii. During Operations:

- Monday - Friday: _____
- Saturday: _____
- Sunday: _____
- Holidays: _____

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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:

Temporary and unavoidable storm term noise impacts resulting from the use of construction equipment during construction of the proposed project

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:

Proposed on site lighting will be dark sky compliant and in compliance with Town of Amherst lighting standards in the Zoning Code.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☐ No

Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☐ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:_____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☐ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____
- Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____
- Operation: _____

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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:

Single family residential, multifamily residential and commercial uses.

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	2.3	3.35	+ 1.05
• Forested	0.0	0.0	0.0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0.0	0.0	0.0
• Agricultural (includes active orchards, field, greenhouse etc.)	0.0	0.0	0.0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0.0	0.0	0.0
• Wetlands (freshwater or tidal)	0.0	0.0	0.0
• Non-vegetated (bare rock, earth or fill)	0.0	0.0	0.0
• Other Describe: greenspace/landscape areas	2.87	1.82	- 1.05

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

1.a

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:
Creative Plan Learning Center

e. Does the project site contain an existing dam? ☐ Yes ☐ No
If Yes:
i. Dimensions of the dam and impoundment:
- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☐ No
If Yes:
i. Has the facility been formally closed? ☐ Yes ☐ No
- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☐ No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☐ No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No
☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____
☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No
If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

1.a

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☐

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? > 7 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☐ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site:

Cosad Loamy Fine Sand	84 %
Lakemont Mucky Silt Loam	5 %
Odessa Silt Loam	11 %

d. What is the average depth to the water table on the project site? Average: >1 feet

e. Drainage status of project site soils:
☐ Well Drained: _____% of site
☐ Moderately Well Drained: _____% of site
☑ Poorly Drained 100 % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

m. Identify the predominant wildlife species that occupy or use the project site:
Typical suburban species

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:
i. Species and listing (endangered or threatened): _____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:
i. Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☐ No
If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☐ No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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: Walton Woods Park

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): Town Park

iii. Distance between project and resource: 1 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.

Note: A copy of the No Impact Determination Letter issued by the NYS Office of Parks, Recreation and Historic Preservation on April 12, 2023 is provided at Attachment "B" and a copy of the Wetland Delineation Report prepared by Scott Livingstone dated May 4, 2023 confirming there are not any wetlands subject to the jurisdiction of either the USACE or the NYSDEC on the Projcet Site has been submitted with the Site Plan Amendment Application.

G. Verification

I certify that the information provided is true to the best of my knowledge.

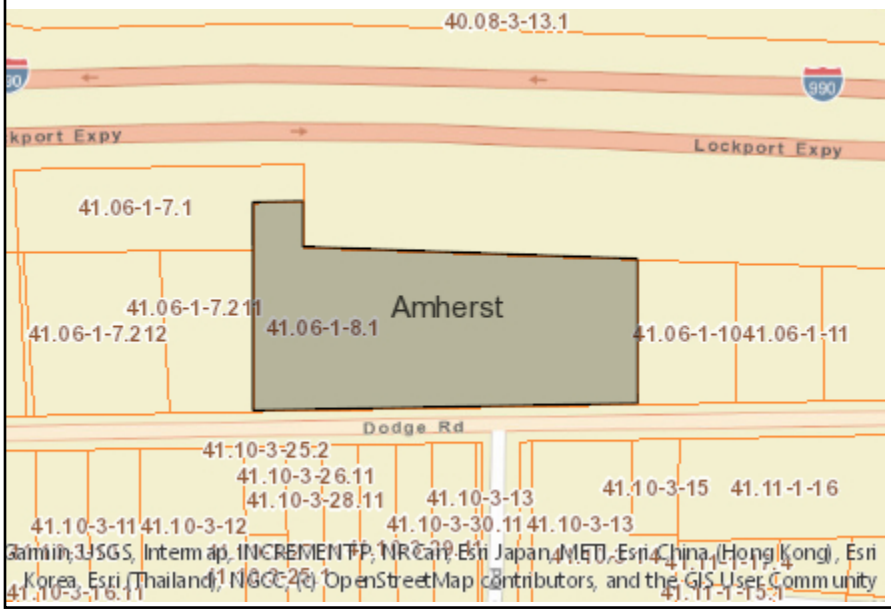
Applicant/Sponsor Name The Green Organization Date August 20, 2025

Signature _____ Title Attorney for Project Sponsor

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

PRINT FORM

EAF Mapper Summary Report



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



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

1.a

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TOWN OF AMHERST ATTACHMENT
State Environmental Quality Review
ENVIRONMENTAL ASSESSMENT FORM

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

Soil Name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Lakemont mucky silt loam	✔	✔		✔	
Cosad loamy fine sand	✔	✔		✔	
Odessa silt loam	✔	✔		✔	

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 X 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:
   5.17 acre project site, 1.86 acre parcel at 440 Dodge Road

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 hour upon completion of project 49 (weekday am/pm peak)
   Source: Traffic Impact Study

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:

    19,800 average flow 82,163 peak flow.

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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

ATTACHMENT A OF PART 1 OF FULL EAF

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Amherst
Town of Amherst Planning Department
Erie County, New York

Brian J. Kulp
Supervisor

Daniel C. Howard
Planning Direc

Daniel J. Ulatowski
Assistant Planning I

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

SEQR
Negative Declaration

SEP23'23 PM 1:38 7340

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency:	Town of Amherst Planning Board	**Project:**	SP-2023-05
Address:	5583 Main Street Williamsville, NY 14221 (716) 631-7051	**Date:**	September 21, 2023

This notice is issued pursuant to Chapter 104 of the Amherst Town Code and Part 617 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: A proposed 92-unit multifamily residential development consisting of two 3-story apartment buildings of 36 units each, five 2-story townhome buildings of 4 units each, and 233 parking spaces (including 34 total garage spaces). Work will include the site improvements not specifically stated above, including, stormwater, utilities, grading, lighting, paving, and landscaping.

Location: 480 Dodge Road, Amherst, Erie County

Petitioner: The Green Organization

Reasons Supporting This Determination

Based on information submitted by the applicant including a Full Environmental Assessment Form (EAF) - Part I, and a complete site plan application, a preliminary staff analysis was undertaken and EAF Part II completed. Compared to the criteria listed in Section 617.7, all indications are that this action will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Engineering Department on June 2, 2023 and July 5, 2023 reviewed the Grading, Drainage, Erosion Control Plan and Utility Plans submitted on May 25, 2023; Engineer's Report submitted on March 20, 2023; and Geotechnical Report prepared by Barron & Associates on May 11, 2023.

   The Stormwater Pollution Prevention Plan (SWPPP) submitted on May 25, 2023 was also reviewed. Based on its review of these documents, the Engineering Department has determined that the project has or will have met all applicable requirements and has no objection to its approval.

2. The project will not result in the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. The subject site is currently developed as a retail nursery and garden center and does not contain protected wildlife species or habitat. Approximately 2.5± acres of existing vegetation will be removed to accommodate the proposed residential development.

3. The project is not expected to create any substantive conflict with the Audubon Development Plan and Bicentennial Comprehensive Plan or corresponding NCD Zoning. The premises are ~~also~~ designated for mixed residential uses in the Town's future Conceptual Land Use Plan (Figure 6) and subsequently as Suburban Corridor Mixed-Use on Figure 6A of the Bicentennial Comprehensive Plan. The Planning Department in their review of August 16, 2023 and September 14, 2023 has reviewed the application documents and Building Department in their review of July 27, 2023 has reviewed the application documents along with the Geotechnical Report submitted on May 11, 2023 and determined that the subject project has or will have met all International Building Code - 2018 and Zoning Ordinance regulations.

4. The project is within an area identified by the State as having potential archaeological or historical significance, and the NYS Office of Parks, Recreation and Historic Preservation has reviewed the project and, as stated in their letter of April 12, 2023 determined that there will be no impact on these resources.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

5. The project will not impair the character or quality of important aesthetic resources of existing community or neighborhood character. The project is located in the New Community District - General Commercial (NCD-GC) zoning district where multi-family dwellings are permitted; neighboring uses are residential and commercial and zoned NCD-GC and NCD-ND; therefore, the project is consistent with surrounding land use.

6. The proposed subject development will include 92 multi-family dwellings in apartment buildings and townhomes, which will not cause a major change in the use of either the quantity or type of energy.

7. The project will not create any hazard to human health. The Fire Chief's Association on June 6, 2023 and August 18, 2023, reviewed the project and has no objection to the approval of the site plan, as all requirements of this agency has or will have been met. In accordance with the findings and conclusions in the Phase I Environmental Site Assessment prepared by LaBella dated August 15, 2022, no recognized environmental conditions, controlled environmental conditions, historic recognized environmental conditions or significant data gaps have been identified in connection with the existing site, and no further investigation is warranted.

8. The project will cause a substantial change in the use, or intensity of use, of land. The townhomes fronting along Dodge Road will be generally consistent with the scale of surrounding residential land uses, and the apartment buildings located on the rear portion of the property will be generally consistent with other multi-family developments within the Audubon New Community.

9. The construction of 92 apartments will increase the number of people using the site over its previous level of use, however the site is designed to adequately support demand for the proposed number of residents and all required road and utility infrastructure will be in place to accommodate the development.

10. Review of the Traffic Impact Study (TIS) prepared by Passero Associates, submitted to the Planning Department on May 2, 2023 and reviewed by NYSDOT on April 12, 2023 and Amherst Traffic Safety Board on May 4, 2023 indicate that significant negative traffic impacts are not expected to result from the proposed project.

11. A coordinated review of the project has been undertaken by Town Departments including, in addition to those mentioned above, Assessor on June 2, 2023, Plumbing Division on August 2, 2023, and Right-of-Way Agent on March 28, 2023. These reviews did not identify any potential significant adverse environmental issues and indicated that the proposal will not have a significant damaging impact on the environment.

12. Issues not specifically mentioned above and/or those not specifically reviewed were not raised by Town departments, outside agencies or the public and are not determined to cause significant negative environmental impacts.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Planning Board Approval
Moved by: Giuliani; Second by: Raffaele Ayes 6; Noes 0; Absent 1 (Chmiel)

Gary Palumbo, Associate Planner — Date 9.28.2023

Robert J. Gilmour, Planning Board Chair — Date 9-28-23

GP/ac
X:\Current_Planning\Files\Site Plans\2023\SP-2023-05_(480_Dodge_Rd_NCD)_032223\SP-2023-05_neg dec_092123.doc.docx
cc: Amherst Building Department
ECDEP
NYSDOT
Matt Green, The Green Organization, 6465 Main Street, East Amherst, NY 14051
Pat Sheedy, Carmina Wood Design, 487 Main Street, Suite 500, Buffalo, NY 14203
Sean Hopkins, Hopkins Sorgi & McCarthy, 5500 Main St,, Suite 343, Williamsville NY 14221

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

ATTACHMENT B OF PART 1 OF FULL EAF

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

April 12, 2023

Patrick Sheedy Jr.
Carmina Wood Design
487 Main Street
Suite 500
Buffalo, NY 14203

Re: SEQRA
Proposed Multi-Family 122-Unit New Development Project
480 Dodge Rd, Amherst, NY 14068
23PR03033

Dear Patrick Sheedy Jr.:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

rev: J. Vavrasek

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

EXHIBIT 3

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Site Plan
SCALE: 1"=30'

LOCKPORT EXPRESSWAY

DODGE (66.0' WIDE) ROAD

ROBIN RIDGE ROAD

Site Data	
ZONED: NCH-MS	
BUILDING PROPOSED (3 STORY APARTMENT BUILDING) & TOWNHOUSE BUILDING DETACHED GARAGES	
SETBACKS REQUIRED	PROVIDED
FRONT	15.7' MIN.
SIDE	N/A
SIDE (ACCESSORY)	3.5'
REAR	10.7' MIN.
REAR (ACCESSORY)	11.82' MIN.
SETBACKS - PARKING	
FRONT	61.4' MIN.
SIDE	14.46' MIN.
REAR	18.38' MIN.
PARKING	
REQUIRED	2 PER UNIT = 2x42 = 84
PROVIDED	84
GARAGE	42
TOTAL	126
LANDSCAPING	
REQUIRED (10% OF 9.14 AC)	0.91 AC (39,621 SF)
PROVIDED	0.24 AC (10,454 SF)
PARKING CALCULATIONS	
REQUIRED PARKING SPACES PER DWELLING UNIT	126 SPACES REQUIRED

STREET & SITE SIGNS:		
SIGN#	STREET SIGN	ROBIN RIDGE RD & DODGE RD
SIGN#	STOP SIGN	
SIGN#	SPEED LIMIT 45MPH	
SIGN#	SPEED LIMIT 40 MPH	
SIGN#	PYLON SIGN	
SIGN#		ARBORDALE NURSERIES LANDSCAPING

REVISIONS:		
No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. per neighbor comments	6/21/23
3	Rev. per Town comments	7/21/23
4	Rev. per Town comments	9/12/23
5	Rev. per Town comments	9/14/23
6	Rev. per Town comments	12/8/23
7	Rev. per ECDRW comments	1/12/24
8	Rev. per ECDRW comments	1/18/24
9	Clubhouse removed, townhouse added	8/22/25

Multi-Family Project

480 Dodge Road
Amherst, NY

CARMINA WOOD DESIGN
80 Silo City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

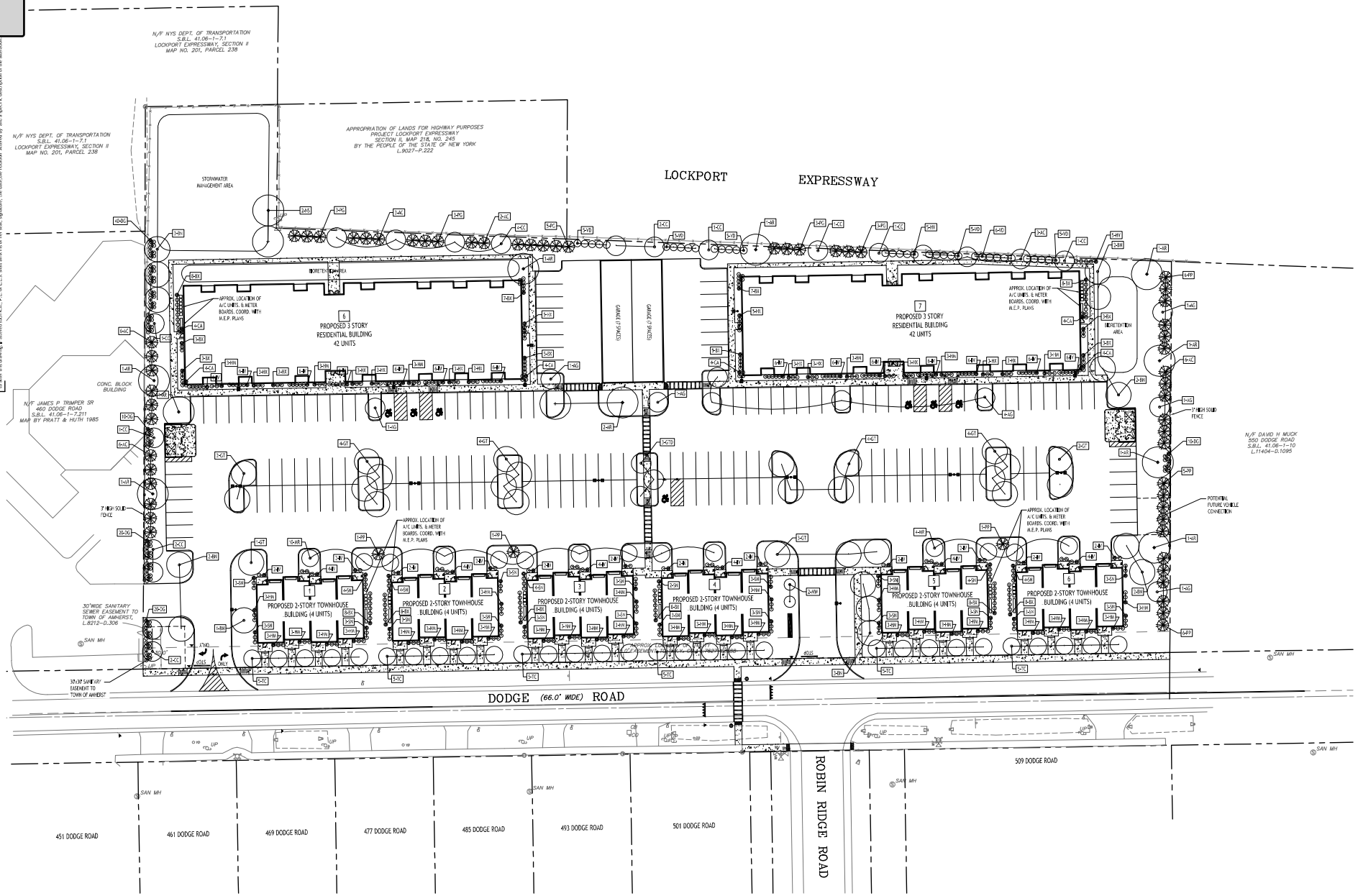
DRAWING NAME: Site Plan

DRAWING NO. C-100

Project No: 22.296

Date: 3/20/23
Scale: 1" = 30'
Drawn By: CW
Ck'd By: CW
As Noted

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Landscape Plan
SCALE: 1"=30

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

30 0 30 60Ft.

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CARMINA WOOD DESIGN
80 Stiles City Row, Suite 100
Buffalo, New York 14207
Phone: (716) 842-3165

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. townhouse layout	6/21/23
3	Rev. per Town comments	7/31/23
4	Rev. per Town comments	8/10/23
5	Rev. per Town comments	9/12/23
6	Rev. garage removed, townhouse added	8/22/25

Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
1769 Dodge Road, East Amherst, NY 14051-2133
Phone: 716-364-8954
RCWLandscapeArchitect@gmail.com

DRAWING NAME:
Landscape Plan

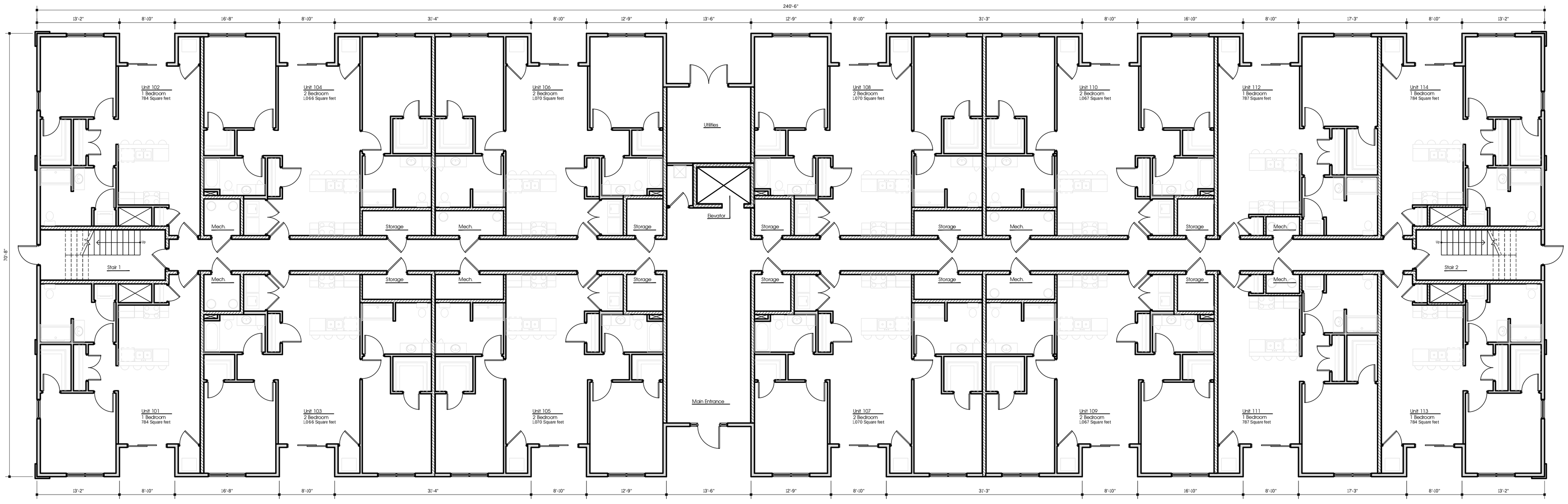
Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
L-100

Project No: 22.296

EXHIBIT 4

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Concept First Floor Plan

Second and Third Floors Similar

1/8" = 1'-0"

Green Organization - Multi-Family Concept Plan

480 Dodge Road Getzville, NY

8/20/2025

SUTTON architecture "Design 2 Build"

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Concept South Elevation

1/8" = 1'-0"



Concept West Elevation

1/8" = 1'-0"



Concept East Elevation

1/8" = 1'-0"



Concept North Elevation

1/8" = 1'-0"

Green Organization - Multi-Family Concept Elevations

480 Dodge Road Getzville, NY

8/20/2025

SUTTON architecture "Design 2 Build"

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

EXHIBIT 5

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION (NCD)
SP-2023-05

PETITIONER

The Green Organization
6465 Main Street
East Amherst, NY 14051

PROPERTY LOCATION

480 Dodge Road

WHEREAS the Town of Amherst Planning Board on Thursday, August 17, 2023 held a public hearing on a site plan for the proposed 92-unit multi-family development, and

WHEREAS the Planning Board has reviewed the plans and specifications for the proposed project, and

WHEREAS the Site Plan has been referred to the Town's various review agencies and they have made findings on this project, and

WHEREAS the Planning Board finds that:

1. The proposed site plan is consistent with the intent, objectives and specific requirements of the Zoning Ordinance, specifically those of the New Community District, Section 5-2.

2. The proposed site plan is in conformity with the Approved Development Plan for the Audubon New Community.

3. Adequate services and utilities are or will be available prior to occupancy, and

4. Review by the US Army Corps of Engineers under Section 404 of the Clean Water Act may be waived because the parcel is developed, as determined by a wetland delineation report.

5. 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.

6. The Site Plan is consistent with all other applicable laws.

NOW THEREFORE BE IT RESOLVED that in accordance with 6 NYCRR, Part 617 and Local Law #3-82, as amended, the Planning Board has issued a Negative Declaration attached hereto, and

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION (NCD)
SP-2023-05

PETITIONER

The Green Organization

PROPERTY LOCATION

480 Dodge Road

SEP28'23 PM 1:07 RCVD

NOW THEREFORE BE IT FURTHER RESOLVED that the Planning Board, in accordance with Section 8-15-9 of the Zoning Ordinance, approves said Site Plan, subject to the following conditions:

1. That the petitioner confirm their agreement to enter into a future reciprocal agreement for ingress and egress between the subject parcel and 460 Dodge Road; and that the access stub be shifted north and constructed to the property line aligning with the proposed southerly drive aisle.

2. That the petitioner must request and receive from the Town Board, release of the existing 30 foot wide Sanitary Sewer Easement or portion thereof along Dodge Road documenting that this easement is being modified or abandoned to allow for the proposed development.

3. That an outside children's play area be added to the site plan next to the clubhouse.

4. That the petitioner address the comments of the Fire Chiefs Association in their letter dated August 18, 2023, to the satisfaction of the Association.

5. That the petitioner address the comments of the Stormwater Management Officer and of the Engineering Department and in their letters dated April 28, 2023, May 16, 2023, June 2, 2023, and July 5, 2023 to the satisfaction of that department.

6. That a Rectangular Rapid Flashing Beacon (RRFB) be paid for and installed by the petitioner on Dodge Road at Robin Ridge Road, under a permit by ECDPW.

7. 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 and enclosure shall be high enough to enclose entire dumpster within.

8. 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.

9. That if any recognized environmental conditions are found in the field during construction, additional environmental investigation and remediation will be conducted by the petitioner under the direction of NYSDEC.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION (NCD)
SP-2023-05

PETITIONER	PROPERTY LOCATION
The Green Organization	480 Dodge Road

The foregoing resolution was adopted by the Town of Amherst Planning Board, September 21, 2023; moved by Giuliani; seconded by Gill; ayes 6, noes 0; absent 1 (Chmiel).

Robert J. Gilmour, Planning Board Chair

9-28-23
Date

GP/ac
X:\Current_Planning\Files\Site Plans\2023\SP-2023-05_(480_Dodge_Rd_NCD)_032223\SP-2023-05_resolution_092123.doc

cc: Commissioner of Building
Town Engineer
Fire Chiefs
Traffic/Safety Coordinator
Highway Superintendent
Matt Green, The Green Organization, 6465 Main Street, East Amherst, NY 14051
Pat Sheedy, Carmina Wood Design, 487 Main Street, Suite 500, Buffalo, NY 14203
Sean Hopkins, Hopkins Sorgi & McCarthy, 5500 Main St,, Suite 343, Williamsville NY 14221

Approved Plan: Carmina Wood Design
Received: September 14, 2023

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Wetland and Waterbodies Delineation Report

for

480 DODGE ROAD

Town of Amherst

Erie County, New York

for

The Green Organization

EARTH DIMENSIONS, INC.

Soils Investigations • Wetland Delineations

May 4, 2023
EDI Project Code: **W7D23**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

REPORT SUMMARIZING THE RESULTS OF A WETLAND DELINEATION SURVEY OF

480 DODGE ROAD

Prepared for Submission to:

U.S. ARMY CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO, NEW YORK 14207

Prepared By:

EARTH DIMENSIONS, INC.
1091 JAMISON ROAD
ELMA, NEW YORK 14059

Prepared For:

MATT GREEN
THE GREEN ORGANIZATION
6465 TRANSIT ROAD
EAST AMHERST, NEW YORK 14051
EMAIL: Matt@thegreenorganization.com
PHONE #: 716-471-2806

REPORT DATE: May 4, 2023

EDI PROJECT CODE: W7D23

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

PROJECT INFORMATION

Project Name	480 Dodge Road
Street Address	480 Dodge Road
SBL Number	41.06-1-8.1
Town	Amherst
County	Erie
State	New York
Latitude/Longitude (NAD83)	43.02468°N, -78.77421°W
Investigation Area	5.2± Acres
USGS 7.5 Minute Topographical Map	Tonawanda East Quadrangle
Waterway	NA
Hydrologic Unit Code	04120104
Date of Delineation	May 1, 2023
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	Arbordale Nursery, Inc.
Authority	Section 404
Permit/Letter Being Requested	Jurisdictional Determination

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TABLE OF CONTENTS

Executive 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 5
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 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
Figure 9: Aerial Photo with Wetlands
Figure 10: Soil Map with Wetlands
Figure 11: FEMA Floodplain Map
Figure 11: FEMA Floodplain Map
Appendix B – Data Sheets
Appendix C - Site Photographs
Appendix D - References
Appendix E – Project Contact Details

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

EXECUTIVE SUMMARY

The Green Organization has proposed the development of a 5.2± acre parcel located along the north side of Dodge Road in the Town of Amherst, County of Erie, and State of New York. The Green Organization has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation report that would allow the U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) to determine their jurisdictional authority over the investigation area, pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law. The proposed project does not qualify for Bipartisan Infrastructure Law (BIL) funding.

A preliminary review of available information pertaining to vegetation, soils, and hydrology in the project area was implemented prior to conducting a field investigation at the site. Sources of information included the United States Geological Survey (USGS), Natural Resources Conservation Service (NRCS), National Wetland Inventory (NWI), and NYSDEC Freshwater Wetland maps. The NRCS map indicates the potential for wetlands under federal 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 ditch that drains an upland portion of the site. EDI identified no wetlands or ponds within the investigation area.

TABLE 2: STREAM & DRAINAGE SUMMARY

Stream Identification #	Geographic Center (WGS84)		Waterway	DEC Class	Linear Feet On-site	Highwater Width (Ft)	Flow Regime	Substrate	Classification (Cowardin)	Jurisdiction Determinati
	Latitude	Longitude								
Upland Ditch 1	43.02433	-78.77416	NA	NA	110 feet	2 to 3	Ephemeral	Grass	NA	Non-Jurisdiction

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

SECTION I: INTRODUCTION

The Green Organization has proposed the development of a 5.2± acre parcel on the north side of Dodge Road in the Town of Amherst, County of Erie, and State of New York. The parcel is part of an existing retail nursery center. The project has been given the name 480 Dodge Road and is located on USGS 7.5 minute quadrangle map indexed as Tonawanda East (Figure 1). The field work was completed on May 1, 2023 using a handheld Trimble TDC650GPS to locate wetland and drainage boundaries.

The Green Organization 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 480 Dodge Road project site.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

SECTION II: SITE DESCRIPTION

The 480 Dodge Road project area is comprised of a 5.2± acre irregular shaped investigation area on the north 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 480 Dodge Road site is flat to gently sloping. The undeveloped upland within the investigation area consisted of successional old fill pad and successional old field communities. The majority of the site is an active nursery with multiple buildings including a retail store, several greenhouses and a large house. The vegetative communities of the investigation area are described according to *Ecological Communities of New York State* (Edinger et al. 2014).

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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 480 Dodge Road project site on the Tonawanda East quadrangle map. The figure depicts the flat to gently sloping topography of the site.

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 no stream or wetland types within the investigation area.

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 Rating
Cv	Cosad loamy fine sand	10
Lb	Lakemont mucky silt loam	100
Od	Odessa silt loam, 0 to 3% slopes	5

Cosad Series: The Cosad series consists of very deep, somewhat poorly drained soils formed in sandy deposits that overlie clayey lacustrine sediments. They are nearly level soils on lake plains. Slope ranges from 0 to 8 percent. Mean annual temperature is 48°F and mean annual precipitation is 40 inches.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Lakemont Series: The Lakemont series consists of deep, poorly drained and very poorly drained soils of lake plains. They are nearly level soils formed in very slowly permeable reddish colored clayey lacustrine sediments. Slope ranges from 0 to 3 percent. Permeability is moderately slow in the surface and very slow in the subsoil sand substratum. Mean annual temperature is about 48 degrees F. and mean annual precipitation is about 34 inches.

Odessa Series: The Odessa series consists of very deep, somewhat poorly drained soils formed in red, clayey lacustrine deposits. These soils are in moderately low areas on lake plains and valley terraces. Slope ranges from 0 to 20 percent. Mean annual temperature is 8 degrees C (46 degrees F), and mean annual precipitation is 995 mm (39 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. The Hydric Rating indicates the proportion of map units that meets the criteria for hydric soils. Soil units are designated as "hydric," "predominantly hydric," "partially hydric," "predominantly nonhydric," or "nonhydric" depending on the hydric rating of its respective components. "Hydric" means that all components listed for a given map unit are rated as being hydric. "Predominantly hydric" means components that comprise 66 to 99 percent of the map unit are rated as hydric. "Partially hydric" means components that comprise 33 to 66 percent of the map unit are rated as hydric. "Predominantly nonhydric" means components that comprise up to 33 percent of the map unit are rated as hydric. "Nonhydric" means that none of the components are rated as hydric. Wetland hydrologic conditions, hydric soils, and hydrophytic vegetation are the three criteria of a wetland.

4. NYSDEC Freshwater Wetlands Map

The NYSDEC Freshwater Wetlands map obtained from the online NYSDEC Environmental Resource Mapper displays no state jurisdictional Freshwater Wetland within and/or adjacent to the investigation area.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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 hydric soils and soils with possible inclusions depicted within the project area as shown on the NRCS map (Figure 3). Therefore, it was considered necessary to perform a field investigation at the site in order to determine the presence of federal and state protected wetlands. The methods specified in the Corps of Engineers Wetlands Delineation Manual (January 1987) and Northcentral and Northeast Regional Supplement Version 2.0 (January 2012) were employed during the field investigation. Procedures, results, and conclusions of the wetland delineation study are presented in the remainder of this report.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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 41ºF. The end of the growing season is defined as the point at which deciduous species lose their leaves or the last herbaceous plants cease flowering and their leaves become dry or brown, whichever comes latest.

Step 4

In order to accurately identify the limits of various vegetative communities and extent of wetlands on-site, a routine determination method was used. As depicted in Appendix A and included in Appendix B, four (4) data points were used to characterize the site.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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 would have been established for any 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 would have been based on the limits of areas where all three parameters were met. However, no wetland areas were identified.

STREAMS & DRAINAGES:

The federally regulated Ordinary High Water (OHW) mark of streams within the Project area were delineated utilizing the definitional criteria as presented in Title 33, Code of Federal Regulations, Part 328, and the USACE Regulatory Guidance Letter 05-05 – Guidance on Ordinary

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

SECTION V: RESULTS AND CONCLUSIONS

Earth Dimensions, Inc. (EDI) has completed a wetland delineation study at the 480 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 no wetlands, streams or ponds within the 480 Dodge Road site.

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 old fill pad and successional old field communities. The vegetative communities of the investigation area are described according to Ecological Communities of New York State (Edinger et al. 2014).

The successional old fill pad community was dominated by the following species: eastern cottonwood (*Populus deltoides),* Norway maple (*Acer plantanoides),* black willow (*Salix nigra),* dame's rocket (*Hesperis matronalis),* northern bedstraw (*Galium boreale),* fig leaf buttercup (*Ranunculus ficaria),* common burdock (*Arctium minus),* wild onion (*Allium canadensis),* garlic mustard (*Alliaria petiolata),* teasel (*Dipsacus fullonum),* grey dogwood (*Cornus racemosa),* spotted knapweed (*Centaurea stoebe),* Kentucky bluegrass (*Poa pratensis*), daisy fleabane (*Erigeron philadelphicus),* Queen Anne's lace (*Daucus carota*), bird's foot trefoil (*Lotus corniculatus*), common dandelion (*Taraxacum officinale*), Canada goldenrod (*Solidago canadensis*), black walnut (*Juglans nigra),* common mugwort (*Artemisia vulgaris),* evening primrose (*Oenothera biennis),* chokecherry (*Prunus virginiana)* and catnip (*Nepetia cataria).*

The successional old field community was dominated by the following species: flat topped goldenrod (*Euthamia graminifolia),* teasel (*Dipsacus fullonum),* meadow hawkweed (*Hieracium caespitosum),* orchard grass (*Dactylis glomerata),* grey dogwood (*Cornus racemosa),* Canada thistle (*Cirsium arvense),* garden vetch (*Vicia sativa),* Queen Anne's lace (*Daucus carota*), calico aster (*Symphyotrichum lateriflorum*), common dandelion (*Taraxacum officinale*) and spotted knapweed (*Centaurea stoebe).*

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

An upland ditch was identified and flows south along the existing driveway to drain a stockpile area in the center of the site. This ephemeral channel is not identified by NYSDEC standards. The substrate consists of vegetation and silt. Within the project area, the ditch is approximately 2 to 3 feet wide with an average water depth of 0-4 inches. EDI utilizes office and field observations to determine stream classifications. The ditch was identified as an ephemeral channel due to it being a manmade feature and not identified on the USGS Topography Map (Figure 1).

A map which depicts the site boundaries and the location of all observation points established during the field survey is included as Figure 6 in Appendix A of this report. Data forms are included as Appendix B. Appendix C includes representative photographs of the project area. Appendix D notes the references used during the preparation of this report and during the field investigation. Appendix E provides the names, addresses and phone numbers of the survey personnel involved in the wetland delineation study.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

SECTION VI: RECOMMENDATIONS

One (1) man-made ditch was identified, and no wetland areas or ponds 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 the ditch should not be regulated by USACE under Section 404. EDI recommends the following:

(1) Based on the lack of any identified wetlands or streams, it is EDI's professional opinion that the project may proceed without the need for a Section 404 Permit.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

480 Dodge Road

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix A - Figures



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

FIGURE 1: USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Tonawanda East Quadrangle / U.S. Geological Survey

480 Dodge Road

Town of Amherst, Erie County, New York



FIGURE 2: NATIONAL WETLANDS INVENTORY MAP

http://www.fws.gov/wetlands/data/mapper.HTML (Visited 05/02/23)

480 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

FIGURE 3: NRCS SOIL SURVEY MAP

http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx (Visited 05/02/23)

480 Dodge Road

Town of Amherst, Erie County, New York

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Lines
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Points
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Water Features
- Streams and Canals

- 8-Digit Hydrologic Units

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 22, Sep 10, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2020—Jul 10, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Cv	Cosad loamy fine sand	10	4.9	86.7%
Lb	Lakemont mucky silt loam	100	0.4	6.3%
Od	Odessa silt loam, 0 to 3 percent slopes	5	0.4	6.9%
Totals for Area of Interest			**5.6**	**100.0%**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



FIGURE 4: NYSDEC ENVIRONMENTAL RESOURCE MAPPER

https://gisservices.dec.ny.gov/gis/erm/ (Visited 05/02/23)

480 Dodge Road

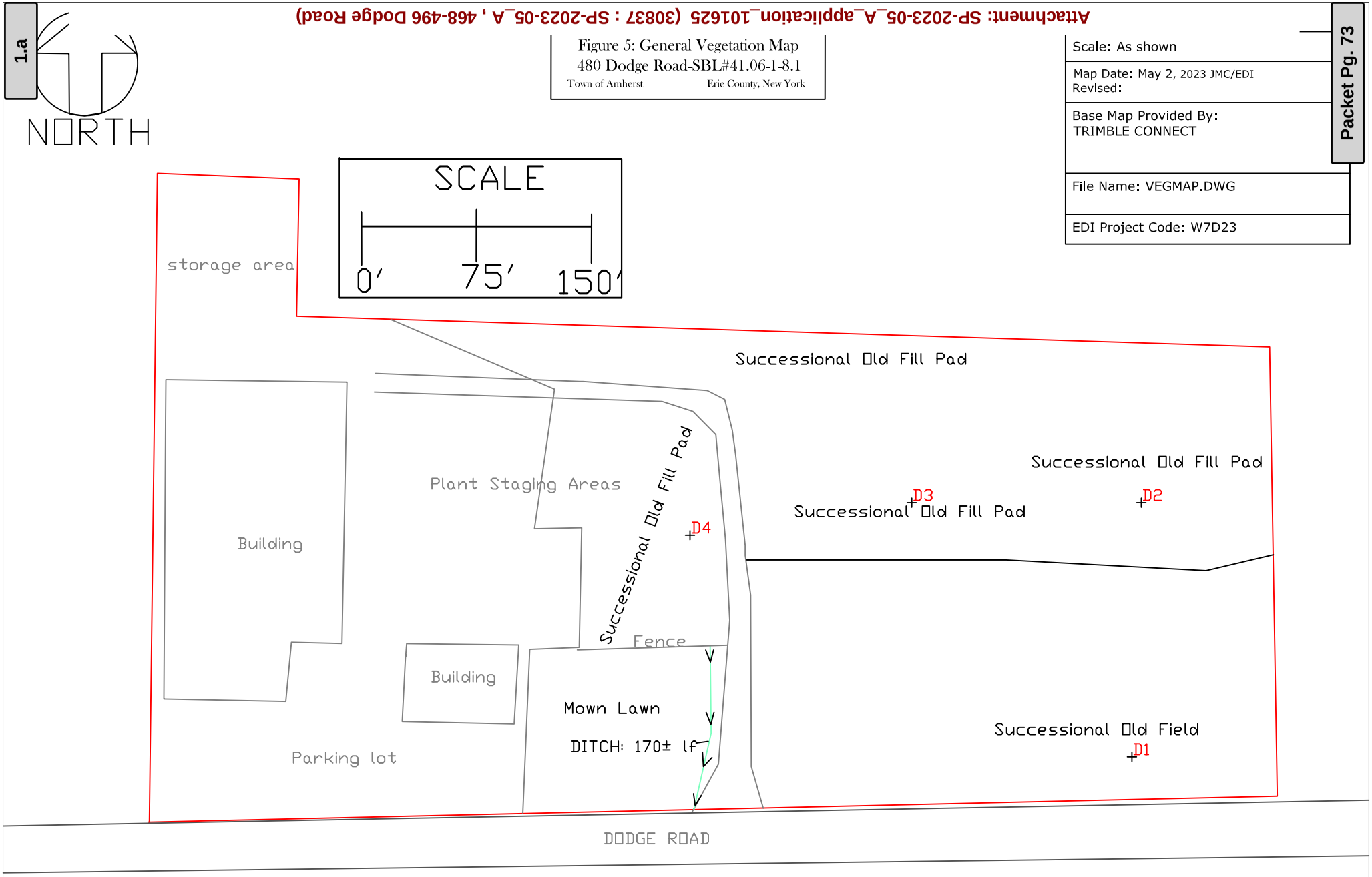
Town of Amherst, Erie County, New York

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Figure 5: General Vegetation Map
480 Dodge Road-SBL#41.06-1-8.1
Town of Amherst Erie County, New York

Scale: As shown
Map Date: May 2, 2023 JMC/EDI Revised:
Base Map Provided By: TRIMBLE CONNECT
File Name: VEGMAP.DWG
EDI Project Code: W7D23



LEGEND

Investigation Area

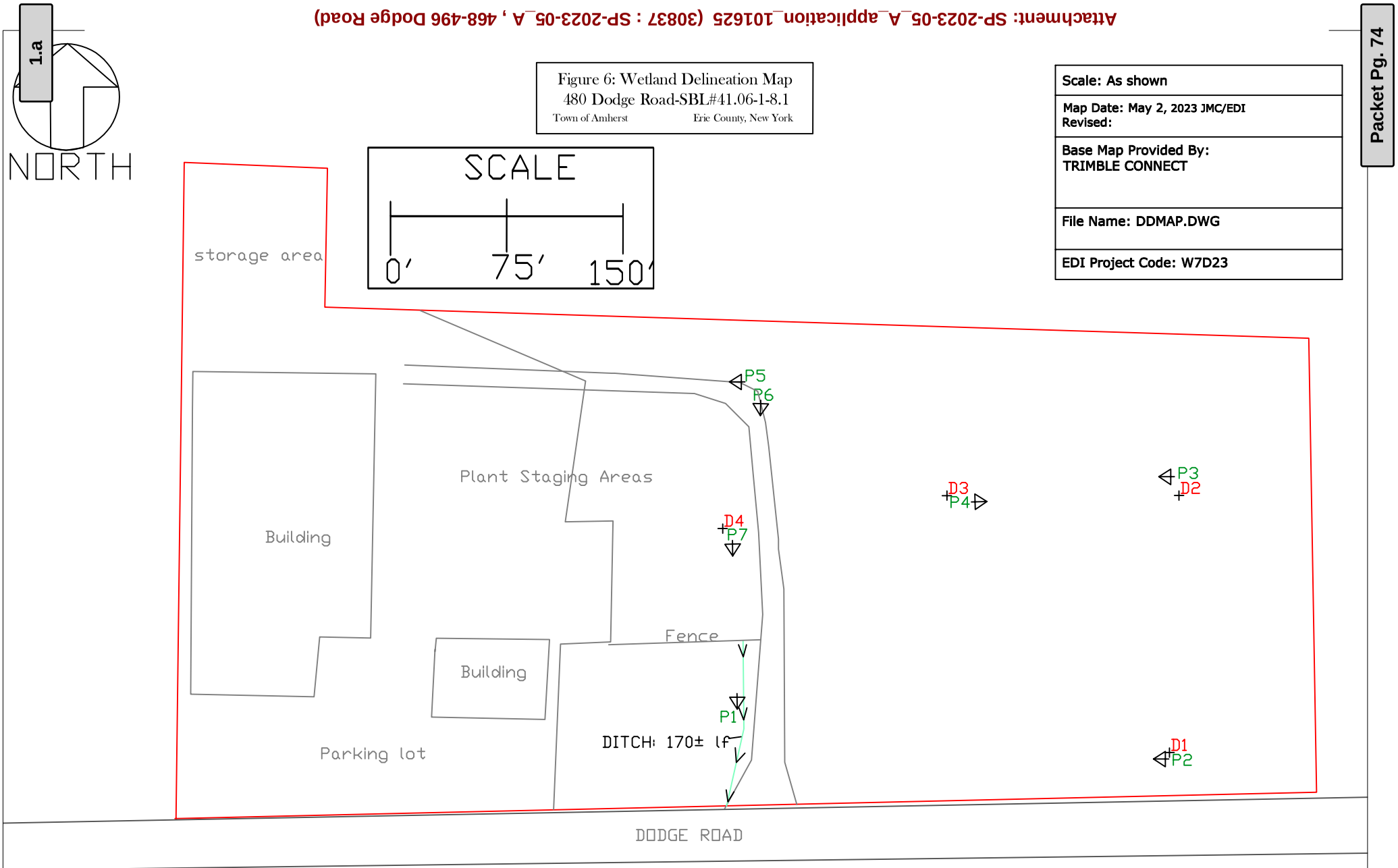
Drainage Feature

D1 Data point location

EARTH DIMENSIONS, INC.
Wetland Delineations • Wetland Mitigation

Figure 6: Wetland Delineation Map
480 Dodge Road-SBL#41.06-1-8.1
Town of Amherst Erie County, New York

Scale: As shown
Map Date: May 2, 2023 JMC/EDI Revised:
Base Map Provided By: TRIMBLE CONNECT
File Name: DDMAP.DWG
EDI Project Code: W7D23



LEGEND

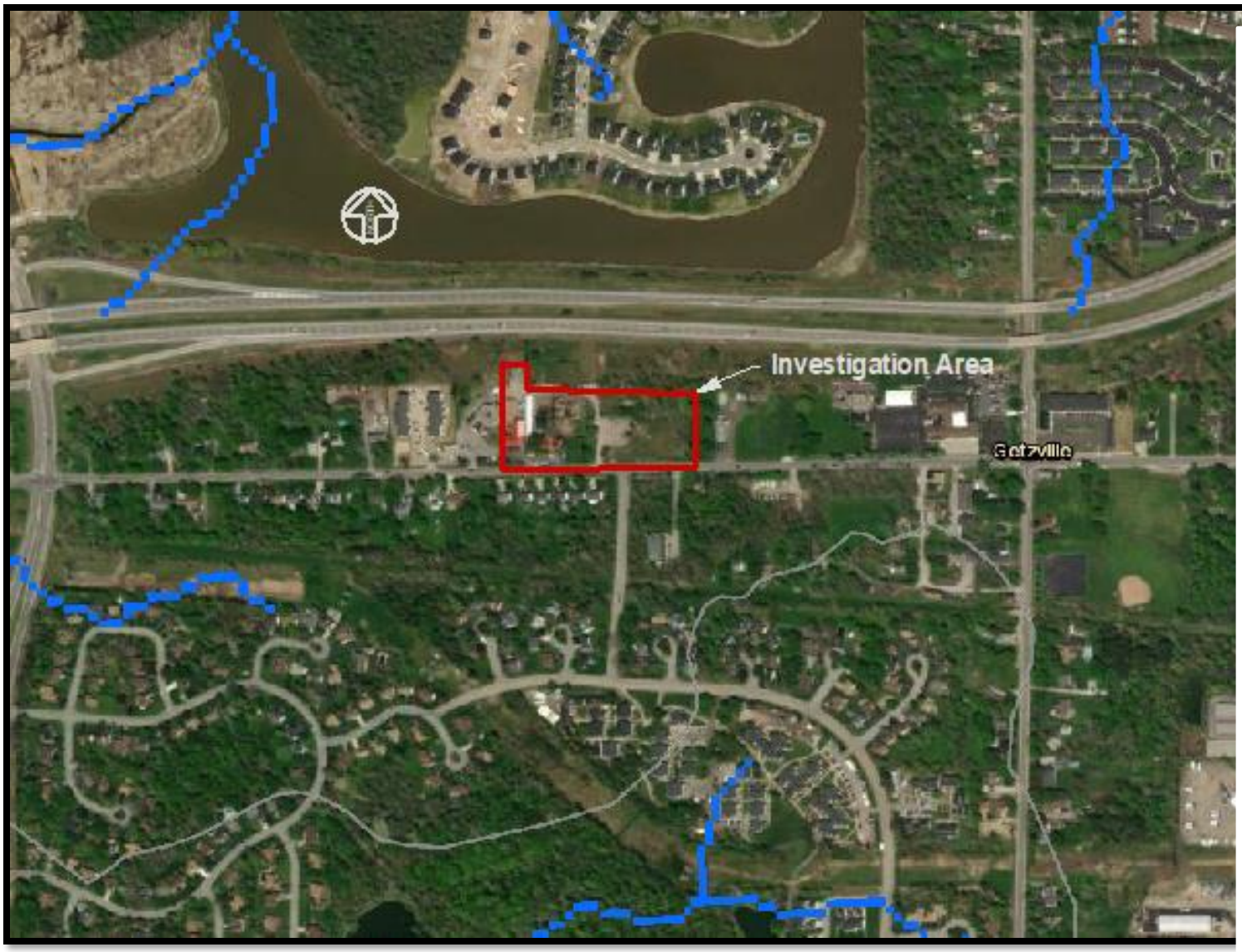
Investigation Area

Drainage Feature

D1 Data point location

P1 Photo Location

EARTH DIMENSIONS, INC.
Wetland Delineations • Wetland Mitigation



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

FIGURE 7: DRAINAGE MAP

https://streamstats.usgs.gov/ss/ (Visited 05/02/23)

480 Dodge Road

Town of Amherst, Erie County, New York



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

FIGURE 8: SITE AERIAL PHOTOGRAPH

https://gis.erie.gov/Html5Viewer133/index.html?viewer=ErieCountyNY.HTML5_2_11_0

480 Dodge Road

Town of Amherst, Erie County, New York

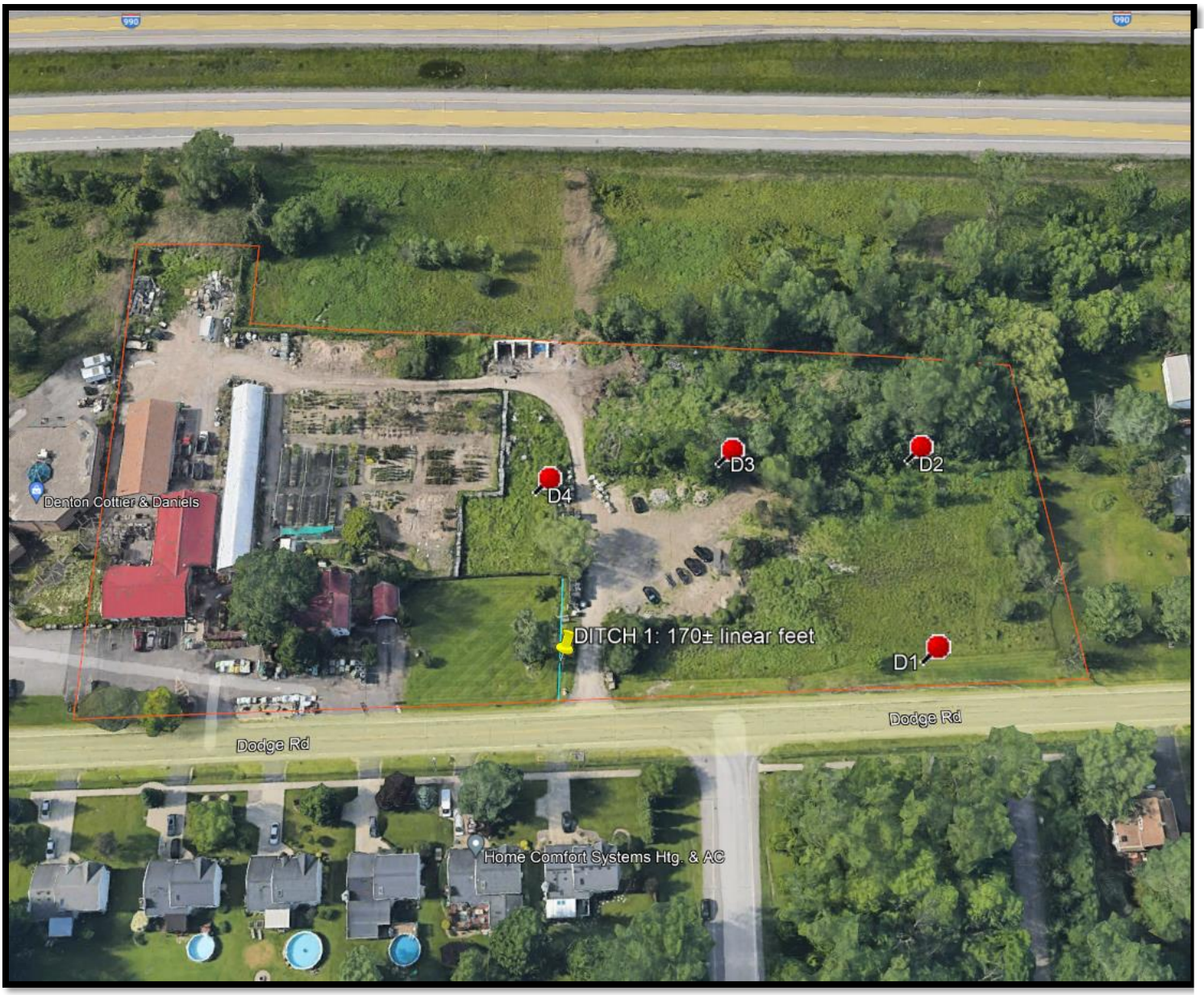


FIGURE 9: AERIAL PHOTO WITH WETLANDS

https://earth.google.com/web/ (Visited 05/02/23)

480 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



FIGURE 10: SOIL MAP WITH WETLANDS

https://earth.google.com/web/ (Visited 05/02/23)

480 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

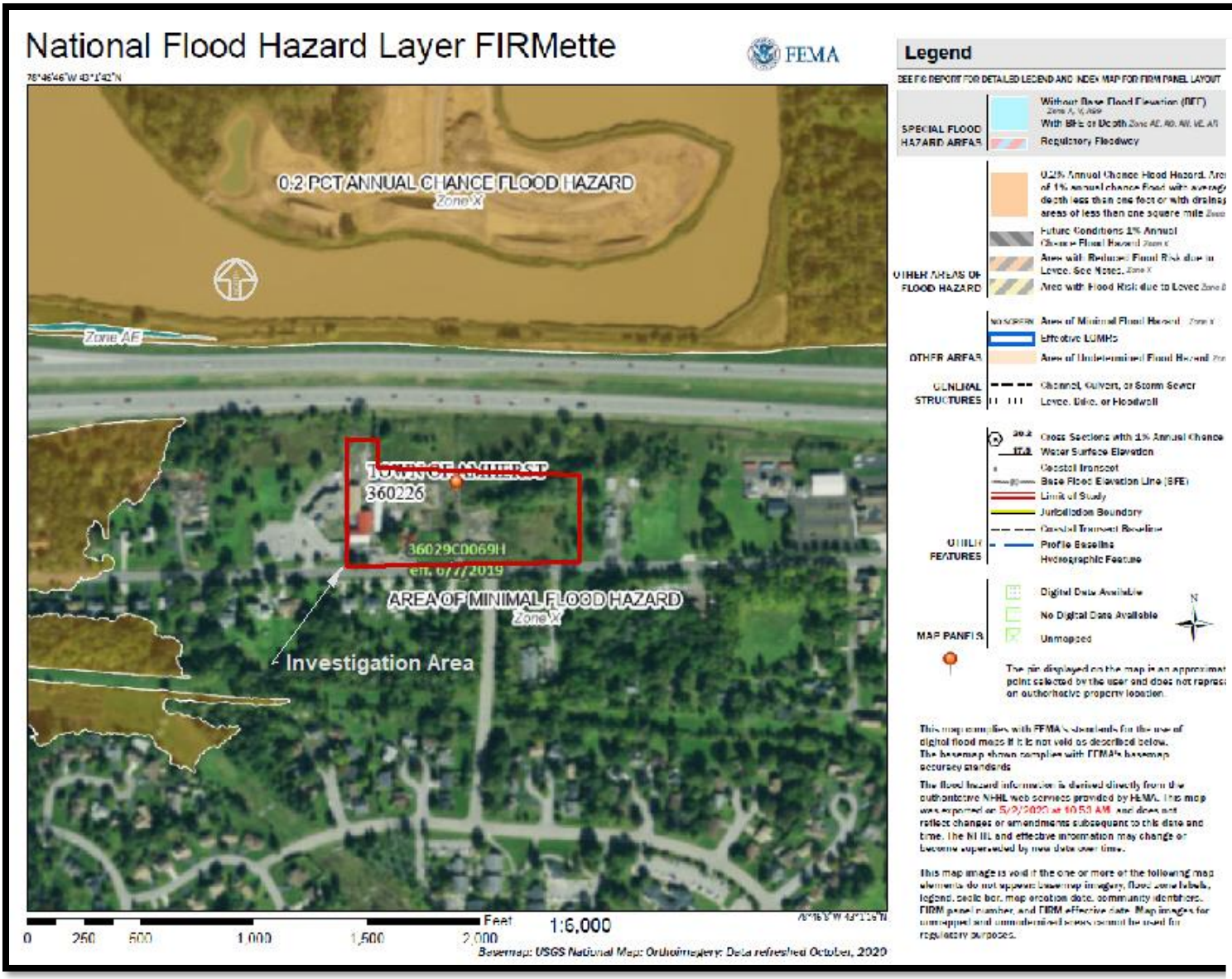


FIGURE 11: FEMA FLOODPLAIN MAP

https://hazards-fema.maps.arcgis.com/apps/webappviewer/ (Visited 05/02/23)

480 Dodge Road

Town of Amherst, Erie County, New York

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

480 DODGE ROAD

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX B – DATA SHEETS

Project Code: W7D23

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 480 Dodge Road Town/County: Amherst/Erie County Sampling Date: May 1, 2023

Applicant/Owner: The Green Organization State: New York Sampling Point: D1

Investigator(s): Scott Livingstone & Jody Celeste Section, Township, Range: 414.06-1-8.1

Landform (hillslope, terrace, etc.): Fill Pad Local relief (concave, convex, none): None Slope (%): 1

Subregion (LRR or MLRA) LRRL Lat: 43.02428 Long: 78.77313 Datum: NAD83

Soil Map Unit Name: CoSAD Loamy Fine Sand 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 X, 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 FIELD / FILL PAD

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season W ater Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Code: W7D23

VEGETATION : Use scientific names of plants.

Sampling Point: D1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Acer platanoides	5	Y	UPL
2.			
3.			
4.			
5.			
6.			
7.			
	5	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15')			
1. NA			
2.			
3.			
4.			
5.			
6.			
7.			
	0	= Total Cover	

Herb Stratum (Plot size: 5')			
1. Euthamia graminifolia	5	N	FAC
2. Dipsacus fullonum	5	N	NI
3. Taraxacum officinale	15	Y	FACW
4. Cirsium Arvense	5	N	FACU
5. Vicia sativa	10	Y	FACU
6. Daucus carota	10	Y	FACU
7. Symphyotrichum lateriflorum	10	Y	FAC
8. Hieracium caespitosum	5	N	NI
9. Dactylis Glomerata	10	Y	FACU
10. Cornus racemosa	10	Y	FAC
11. Centaurea stoebe	10	Y	NI
12.			
	95	= 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: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	25	x 3 =	75
FACU species	50	x 4 =	200
UPL species	5	x 5 =	25
Column Totals:	80 (A)		300 (B)

Prevalence Index = B/A = 3.75

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is < 3.0[1] NO

__ 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 OLD FIELD (MOWN)

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 2 **Direction of Photo** WEST

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 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
0-7	10YR4/1	100					SiL	F, 11
7-20	7.5YR5/1	85	7.5YR5/8	15	C	M	SiC	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ 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: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Code: W7D23

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 480 Dodge Road Town/County: Amherst/Erie County Sampling Date: May 1, 2023

Applicant/Owner: The Green Organization State: New York Sampling Point: D2

Investigator(s): Scott Livingstone & Jody Celeste Section, Township, Range: 414.06-1-8.1

Landform (hillslope, terrace, etc.): Fill Pile Local relief (concave, convex, none): CONVEX Slope (%): 15

Subregion (LRR or MLRA) LRRL Lat: 43,02474 Long: 78,77311 Datum: NAD83

Soil Map Unit Name: ODESSA SILT LOAM, 0-3% SLOPES 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 X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No _____	**Is the Sampled Area within a Wetland?** Yes _____ 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 FILL PILE WITH TREES
- OLD TOPSOIL STOCKPILE

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season W ater Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Code: W7D23

VEGETATION : Use scientific names of plants.

Sampling Point: D2

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. JUGLANS NIGRA	10	Y	FACW
2. POPULUS DELTOIDES	20	Y	FAC
3.			
4.			
5.			
6.			
7.			
	30	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15')			
1. NA			
2.			
3.			
4.			
5.			
6.			
7.			
	0	= Total Cover	

Herb Stratum (Plot size: 5')			
1. Hesperis matronalis	20	Y	FACW
2. Galium boreale	10	N	FAC
3. Ranunculus ficaria	45	Y	FACW
4. Arctium minus	10	N	FAC
5. Allium canadense	10	N	FAC
6. Alliaria petiolata	5	N	FAC
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: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	45	x 2 =	90
FAC species	30	x 3 =	90
FACU species	55	x 4 =	220
UPL species	0	x 5 =	0
Column Totals:	130 (A)		400 (B)

Prevalence Index = B/A = 3.06

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 OLD FILL PAD

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 3 **Direction of Photo** WEST

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

SOIL

Sampling Point: DZ

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR3/1	100					grs.l	F.11

[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: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Code: W7D23

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 480 Dodge Road Town/County: Amherst/Erie County Sampling Date: May 1, 2023

Applicant/Owner: The Green Organization State: New York Sampling Point: D3

Investigator(s): Scott Livingstone & Jody Celeste Section, Township, Range: 414.06-1-8.1

Landform (hillslope, terrace, etc.): Fill Pad Local relief (concave, convex, none): CONVEX Slope (%): 5

Subregion (LRR or MLRA) LRRL Lat: 43.02474 Long: 78.77367 Datum: NAD83

Soil Map Unit Name: COSAD LOAMY FINE SAND 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 X	No _____	**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 SUCCESSIONAL FIELD/FILL PAD
- OLD FILL PAD ASSOCIATED WITH NURSERY OPERATIO

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season W ater Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Code: W7D23

VEGETATION : Use scientific names of plants.

Sampling Point: D3

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. NA			
2.			
3.			
4.			
5.			
6.			
7. ✓			
	0 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. NA			
2.			
3.			
4.			
5.			
6.			
7. ✓			
	0 = Total Cover		

Herb Stratum (Plot size: 5')			
1. Hypericus MAJORANUS	10	N	FAC
2. Alliaria petiolata	20	Y	FACU
3. RANUNCULUS FICARIA	30	Y	FACW
4. Artemisia vulgaris	10	N	UPL
5. Solidago CANADENSIS	10	N	FACU
6. Prunus virginiana	5	N	FAC
7. Nepeta CATARIA	5	N	FACU
8. Lotus corniculatus	5	N	
9. DAUCUS CAROTA	2	N	
10. Alium CANADENSIS	3	N	
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: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	30	x 2 =	60
FAC species	0	x 3 =	0
FACU species	60	x 4 =	240
UPL species	10	x 5 =	50
Column Totals:	100 (A)		350 (B)

Prevalence Index = B/A = 3.5

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is < 3.0[1] NO

__ 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 OLD FIELD PAD

Hydrophytic Vegetation Present? Yes ✓ No __

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 4 Direction of Photo EAST

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

1.a

SOIL

Sampling Point: D3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR4/1	100					gr	Fill

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes _____ No X

Remarks:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 480 Dodge Road Town/County: Amherst/Erie County Sampling Date: May 1, 2023

Applicant/Owner: The Green Organization State: New York Sampling Point: D4

Investigator(s): Scott Livingstone & Jody Celeste Section, Township, Range: 414.06-1-8.1

Landform (hillslope, terrace, etc.): FILL PAD Local relief (concave, convex, none): CONVEX Slope (%): 3

Subregion (LRR or MLRA) LRRL Lat: 43.02468 Long: 78.77421 Datum: NAD83

Soil Map Unit Name: COSAD LOAMY FINE SAND 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 X, 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.)

- SUCCESSIONAL FIELD / FILL PAD

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ Marl Deposits (B15)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Moss Trim Lines (B16)
- __ Dry-Season W ater Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ Shallow Aquitard (D3)
- __ Microtopographic Relief (D4)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Code: W7D23

VEGETATION : Use scientific names of plants.

Sampling Point: D4

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. SALIX NIGRA	5	Y	FACW
2. Acer platanoides	5	Y	UPL
3.			
4.			
5.			
6.			
7.			
	10	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15')			
1. NA			
2.			
3.			
4.			
5.			
6.			
7.			
	0	= Total Cover	

Herb Stratum (Plot size: 5')			
1. Artemisia vulgaris	30	Y	FACW
2. Dipsacus fullonum	15	Y	FACW
3. Alliaria petiolata	15	Y	FACW
4. Oenothera biennis	5	N	FACW
5. Cornus racemosa	5	N	FAC
6. Chrysanthemum leucanthemum	5	N	FACW
7. Galium boreale	5	N	
8. Taraxacum officinale	10	N	
9. Pilea pratensis	5	N	
10. Erigeron philadelphicus	5	N	FAC
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: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	10	x 3 =	30
FACU species	90	x 4 =	360
UPL species	5	x 5 =	25
Column Totals:	110 (A)		425 (B)

Prevalence Index = B/A = 3.86

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 OVD FILL PAD

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 7 Direction of Photo SOUTH

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

SOIL Sampling Point: D4

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	10YR3/4	100					grsl	Fill
16-20	10YR5/4	90	10YR5/6	10	C	M	grcl	Fill

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L, M**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes _____ No X

Remarks:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

480 DODGE ROAD

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX C - SITE PHOTOGRAPHS



Photo 1 (05/01/23): Facing south towards Dodge Road. Depicts Ditch 1.



Photo 2 (05/01/23): Facing west from data point D1; depicts a successional old field community of data point D1.



Photo 3 (05/01/23): Facing west from data point D2; depicts a successional old fill pad community of data point D2.



Photo 4 (05/01/23): Facing east from data point D3; depicts a successional old fill pad community of data point D3.



Photo 5 (05/01/23): Facing west from along the existing roadway into the nursery.



Photo 6 (05/01/23): Facing south from along the existing roadway into the nursery.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Photo 7 (05/01/23): Facing south from data point D4; depicts a successional old fill pad community of data point D4.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

480 DODGE ROAD

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX D - REFERENCES

INFORMATIONAL REFERENCES
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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

480 DODGE ROAD

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX E – PROJECT CONTACT DETAILS

PROJECT CONTACT DETAILS

Wetland Personnel:

Soils and Hydrology Sampling
Scott Livingstone, Senior Soil Scientist
Earth Dimensions, Inc.
1091 Jamison Road
Elma, New York 14059
(716) 655-1717
slivingstone@earthdimensions.com

Vegetation Sampling
Jody Celeste, Ecologist
Earth Dimensions, Inc.
1091 Jamison Road
Elma, New York 14059
(716) 655-1717
jceleste@earthdimensions.com

Report Preparation
Jody Celeste, Ecologist
Earth Dimensions, Inc.
1091 Jamison Road
Elma, New York 14059
(716) 655-1717
jceleste@earthdimensions.com

Client Contact:

Matt Green
The Green Organization
6465 Transit Road
East Amherst, New York 14051
Phone # 716-471-2806
Email: Matt@thegreenorganization.com

Landowner Contact (If different from Client):

Jeff Salmon
Arbordale Nursery, Inc.
480 Dodge Road
Getzville, New York 14068
Phone # 716-688-9125
Email: Jeff@arbordale.com

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN

DOWNSTREAM SANITARY SEWER CAPACITY ANALYSIS REPORT

for

Multi-Family Project

480 Dodge Road
Town of Amherst, Erie County, New York

Prepared for

The Green Organization

6465 Transit Road
East Amherst, NY 14051

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

March 2023
rev. December 2023
rev. April 2025
rev. August 2025



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Description

This project is a redevelopment of a 5.17 acre site located at 480 Dodge Road in the Town of Amherst. Construction will consist of two three story multi-family buildings and six townhouse buildings with attached garages totaling 108 units, detached garage buildings, and associated utility, lighting and landscaping improvements. Currently the site is developed and utilized as a landscape nursery. All existing structures on site are to be demolished. The proposed site development area to be disturbed for this project is approximately 5.17 acres when construction is completed.

An existing 15" public sanitary sewer main is located adjacent to the parcel to the west of the property (460 Dodge Road) and will be utilized for this project. The proposed multi-family development will have a private 8" SDR-35 PVC sanitary lateral at 0.4% minimum slope route through the site. All multi-family, clubhouse and townhouse buildings will connect to this 8" private sewer via a 6" SDR-35 PVC sanitary lateral at 2.0% minimum. The private 8" sanitary sewer will connect the nearest public sanitary sewer manhole along the western boundary of the project site and a new public sanitary sewer manhole will be installed on the project site to allow for the connection to the existing public sanitary sewer. This public manhole will be located in a 30'x30' easement to the Town of Amherst.

Wastewater from the proposed project will flow west along Dodge Road via an 18" sewer, and then west along Dodge Road via the 60" Peanut Line sewer. Flows then continue west and are conveyed north through an 84" sewer, and then ultimately to the Town of Amherst Wastewater Treatment Facility. Refer to the sewer routing map located in the TECSmith monitoring section of this downstream sewer capacity analysis report.

Node 1 – 340 Dodge Road (18"):

Existing Peak Flow measured (wet weather event)	= 0.043 cfs (0.028 mgd)*
Proposed 480 Dodge Road Peak Flow	= 0.127 cfs**
Proposed Total Peak Flow	= 0.170 cfs

Theoretical capacity of existing 18" RCP pipe @ 0.06% = 3.038 cfs

Conclusion: The proposed total peak flow is less than the capacity of the 18" ACP pipe, therefore there is sufficient capacity. At no time during the monitoring period did flow depth exceed the pipe diameter at Node 1 of the downstream monitoring points during the rain events monitored.

Node 2 – North Ellicott Creek Road (60"):

Existing Peak Flow measured (wet weather event)	= 31.763 cfs (20.532 mgd)*
Proposed 480 Dodge Road Flow Peak Flow	= 0.127 cfs**
Proposed Total Peak Flow	= 31.890 cfs

Theoretical capacity of existing 60" RCP pipe @ 0.07% = 81.366 cfs

Conclusion: The proposed total peak flow is less than the capacity of the 60" RCP pipe, therefore there is sufficient capacity. At no time during the monitoring period did flow depth exceed the pipe diameter at Node 2 of the downstream monitoring points during the rain events monitored.

Node 3 – Peanut Line (66"):

Existing Peak Flow measured (wet weather event)	= 56.466 cfs (36.50 mgd)*
Proposed 480 Dodge Road Peak Flow	= 0.127 cfs**
Proposed Total Peak Flow	= 56.593 cfs

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Capacity of existing 66” Peanut Line sewer = 88.798 cfs (57.4 mgd)

Conclusion: The proposed total peak flow is less than the capacity of the 66” Peanut Line sewer, therefore there is sufficient capacity.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Foot Notes:
Downstream capacity node information provided by Town of Amherst Engineering Department
*Converted from measurements in TECSmith report dated 8/12/20
**See Sanitary Sewage Demand Calculations

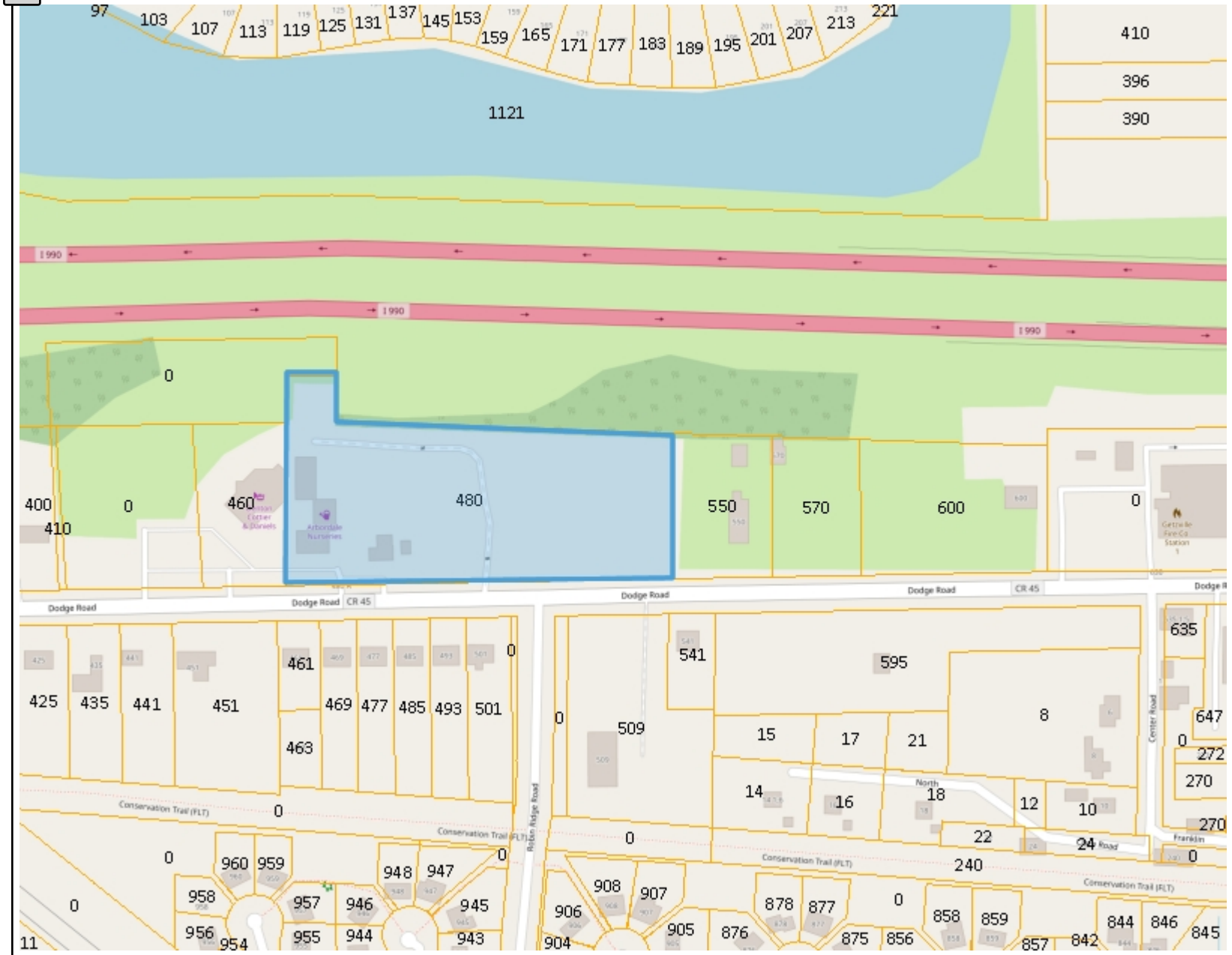
Location Map

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Erie County On-Line Mapping Application





Legend

- Parcels

0 0.07 0.1 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: 4,514

Sanitary Demand Calculations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN
487 MAIN STREET, SUITE 500
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 22.296 Date: 3/20/2023
Project Name: Multi-Family Development rev. 8/22/25
Project Address: 480 Dodge Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 2

1.a

Sanitary Sewage Demand Calculations:

Proposed Towhouses

110	gal/d/unit	x	36 units	=	3,960	gpd	*use 110 gallons per unit per day (1-bdrm)
220	gal/d/unit	x	72 units	=	15,840	gpd	*use 220 gallons per unit per day (2-bdrm)

Total Site Sanitary Demand: = 19,800 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 19,800 gpd / 100 gpcd = 198 per capita

Population (P) = 198 people

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

Peaking Factor = 4.15

Peak Sanitary Demand = 19,800 x 4.15 = 82,163 gpd
= 0.082 MGD
= 0.127 cfs

Required Infiltration and Inflow Mitigation:

Peak Sanitary Flow = 82,163 gpd = 57.06 gpm

4:1 offset flow per NYSDEC requirements = 57.06 x 4 = 228.23 gpm req'd

Mitigation Credit = $250 / gpm

Mitigation Agreement Amount = $57,057.36

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TECSmith Monitoring Report

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Date	Node 1			Node 2			Rain₂
	340 Dodge Road (18")			North Ellicott Creek Rd. (60")			(inches)
	FLOW (GAL x 1,000)	PEAK FLOW (MGD)	PEAK LEVEL (IN)	FLOW (GAL x 1,000)	PEAK FLOW (MDG)	PEAK LEVEL (IN)	
7/14/2020	2.772	0.016	1.480	6974.494	9.101	15.869	*0*
7/15/2020	4.498	0.017	1.409	6591.385	8.845	15.512	*0*
7/16/2020	8.981	0.028	1.915	9916.241	20.532	27.213	***0.86***
7/17/2020	7.891	0.023	1.581	10096.644	16.639	23.493	***0.03***
7/18/2020	4.239	0.018	1.514	8256.593	10.757	17.307	*0*
7/19/2020	4.120	0.017	1.443	7589.558	11.382	18.060	***0.21***
7/20/2020	5.074	0.018	1.463	7269.757	9.235	16.144	*0*
7/21/2020	4.950	0.021	1.574	6681.658	8.895	15.365	*0*
7/22/2020	7.724	0.025	1.803	8633.887	15.390	22.402	***0.42***
7/23/2020	6.646	0.022	1.634	7327.211	9.216	16.027	*0*
7/24/2020	4.713	0.017	1.457	6764.464	8.779	15.317	*0*
7/25/2020	4.290	0.017	1.452	6426.122	8.861	15.407	*0*
7/26/2020	3.747	0.022	1.443	6409.255	8.667	15.297	*0*
7/27/2020	7.977	0.020	1.740	6487.339	8.269	15.107	***0.03***
7/28/2020	6.442	0.017	1.514	6298.427	8.016	14.780	***0.01***
7/29/2020	7.408	0.019	1.574	8340.302	16.584	23.592	***0.18***
7/30/2020	8.040	0.024	1.628	6969.955	8.785	15.769	*0*
7/31/2020	6.650	0.021	1.577	6450.443	8.415	15.050	*0*
8/1/2020	6.228	0.022	1.525	6190.340	8.162	14.979	*0*
8/2/2020	7.807	0.025	1.638	7093.727	10.270	17.033	***0.29***
8/3/2020	8.748	0.025	1.748	6767.967	8.538	15.346	*0*
8/4/2020	8.173	0.023	1.663	6796.062	10.365	17.180	***0.9***
8/5/2020	8.747	0.026	1.743	8708.573	13.072	20.203	*0*
8/6/2020	5.549	0.024	1.538	6692.090	8.551	15.230	*0*
8/7/2020	3.728	0.022	1.634	6318.850	8.227	14.918	*0*
8/8/2020	5.740	0.022	1.580	6101.179	8.330	15.085	*0*
8/9/2020	4.715	0.017	1.563	6073.131	8.252	14.955	*0*
8/10/2020	7.088	0.020	1.628	6101.557	7.953	14.573	*0*
8/11/2020	3.030	0.019	1.576	2981.304	8.010	14.695	*0*
---	---	---	---	---	---	---	***2.93***

TECsmith

TECSMITH, Inc.
PO Box 383
Elma, New York 14059-0383
Tel: 716-462-0382
Fax: 716-687-1418

Date: August 12, 2020

SANITARY SEWER FLOW CAPACITY STUDY – Summary Review

Prepared For: 460 Dodge Road Capacity Analysis

Christopher Wood
487 Main Street, Suite 600
Buffalo, New York 14203
P: (716) 842-3165
F: (716) 842-0263

Project Name: 460 Dodge Road Capacity Analysis

Flow Monitoring Period: July 8, 2020 to August 5, 2020

Rain Events (> 0.5-inches) Monitored: July 16 (0.86”), and August (0.90”)

Number of Monitoring Nodes: Two (2) downstream manholes

Node Locations and Descriptions:

- Node 1 340 Dodge Road (18")
- Node 2 Dodge Rd 60" (60")

Summary Conclusion:

Based on the data presented in this report, specifically the flow depth measurements recorded (see graphs below)

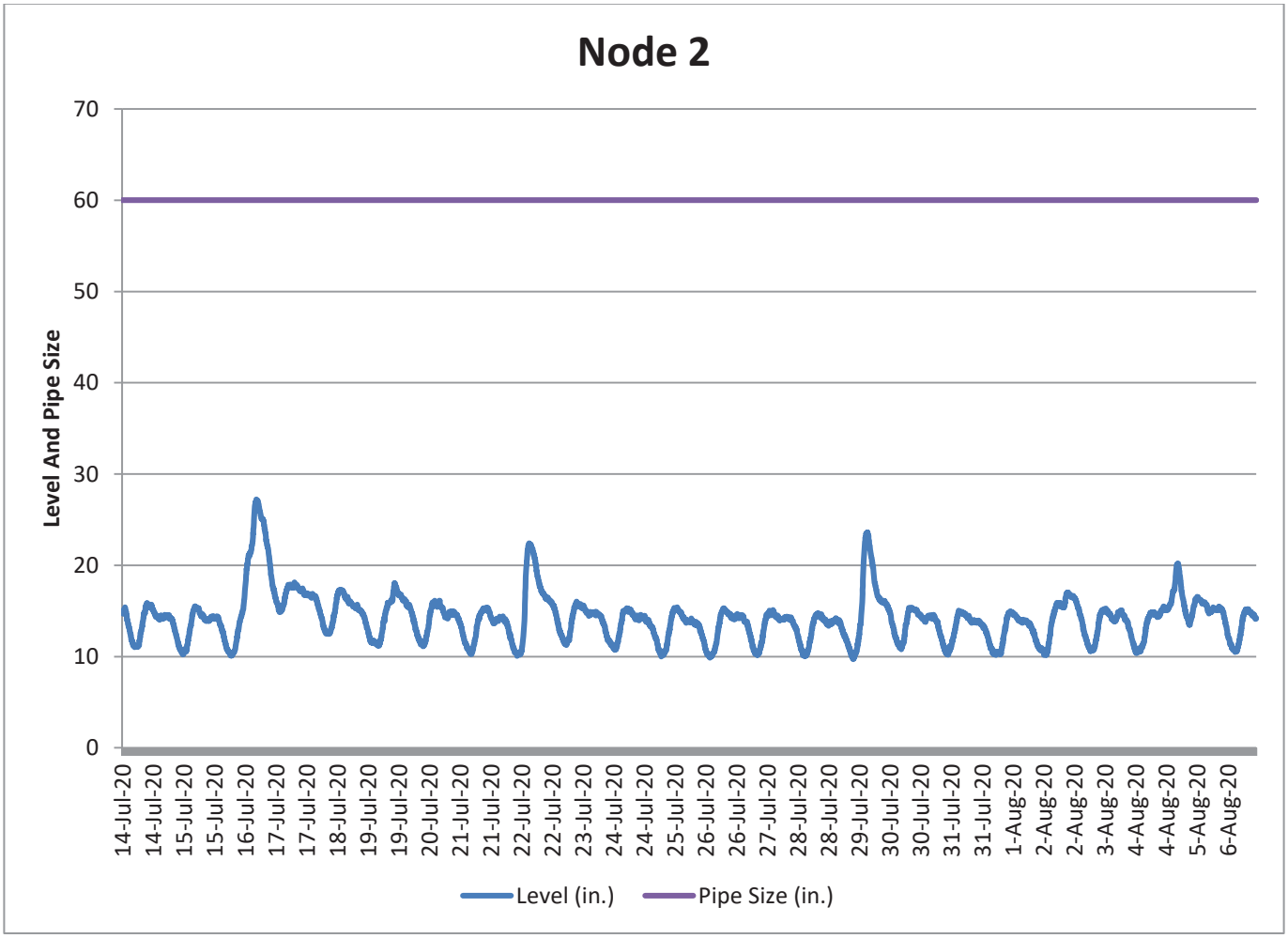
- At no time did the flow depth exceed pipe diameter at any of the downstream monitoring points during the rain events monitored.
- At no time during the monitoring period did the flow at any point slow or stall which would have caused a backup or flooding at the manhole.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TECsmith

TECSMITH, Inc.
PO Box 383
Elma, New York 14059-0383
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- At no time during the monitoring period did depth of flow exceed pipe diameter at Node 2.



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

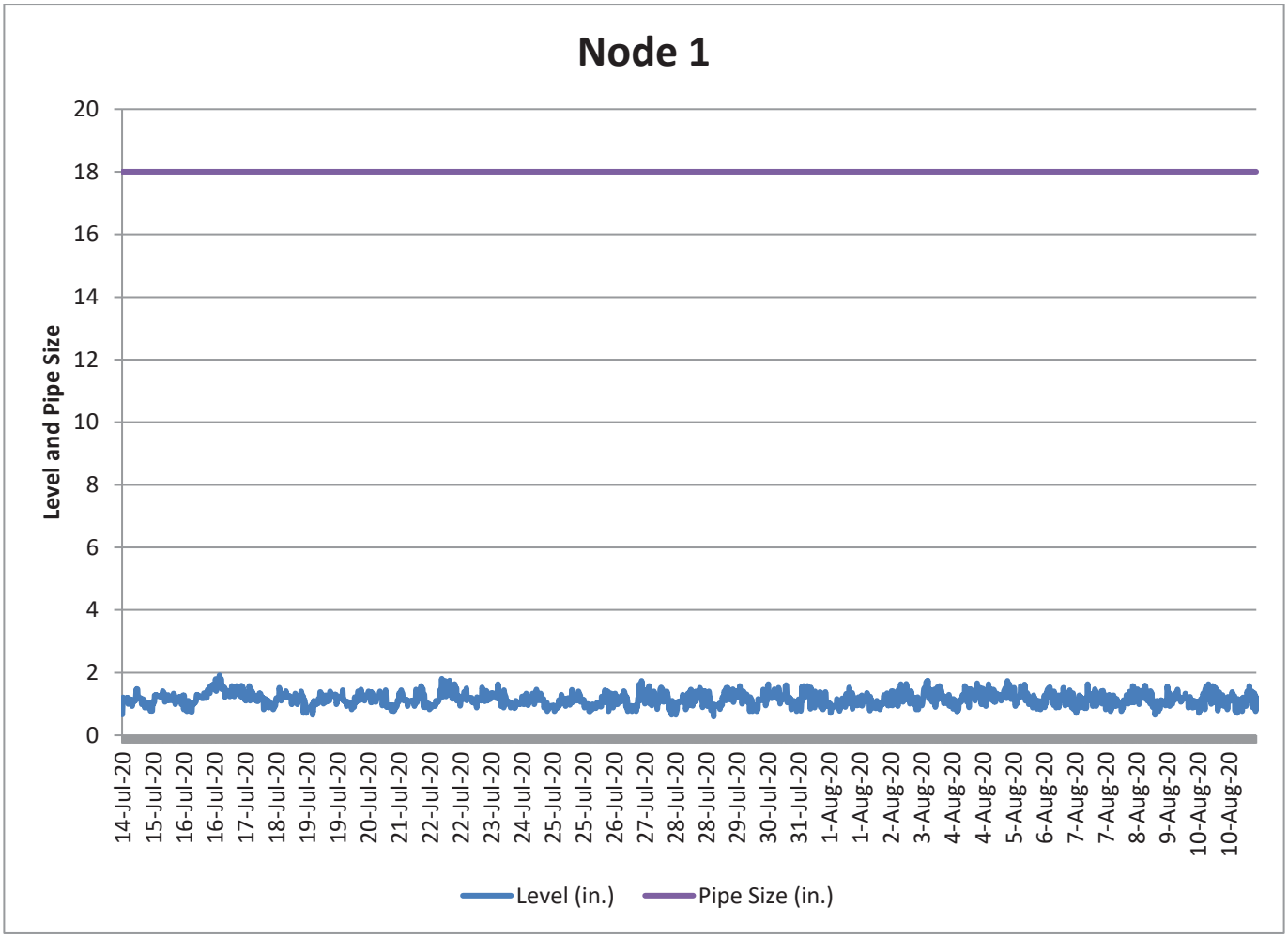
TECsmith

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Elma, New York 14059-0383
Tel: 716-462-0382
Fax: 716-687-1418

Depth of Flow Capacity Summary:

Depth of flow capacity is based on diameter of pipe. See graphs below.

- At no time during the monitoring period did depth of flow exceed pipe diameter at Node 1.



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Town of Amherst Sanitary Sewer Downstream Routing Maps

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Town of Amherst Engineering Department
Sewer Maintenance Division

Main Sanitary Sewer Interceptors

DOWNSTREAM SEWER

AMHERST PEANUT LINE & WEST SIDE INTERCEPTOR

460 Dodge Road - Proposed 26 Unit Apartment Building - Amherst Consolidated Sewer District

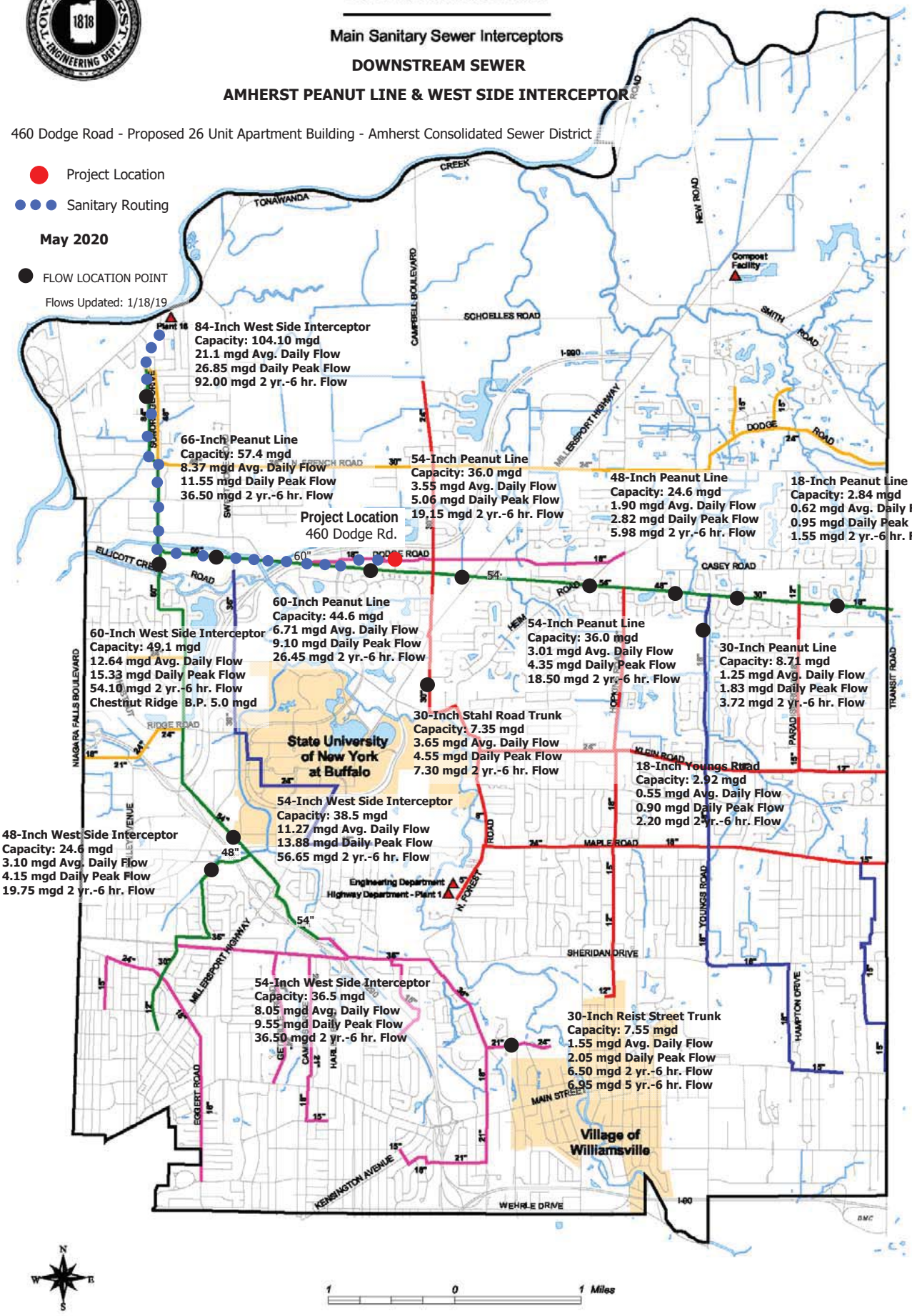
Project Location

Sanitary Routing

May 2020

FLOW LOCATION POINT

Flows Updated: 1/18/19



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

1.a

0837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD
DESIGN

ENGINEER'S REPORT

for

Multi-Family Project
480 Dodge Road
Town of Amherst, Erie County, New York

Prepared for

The Green Organization

6465 Transit Road
East Amherst, NY 14051

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

March 2023
rev. December 2023
rev. January 2025
rev. April 2025
rev. August 2025



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Table of Contents

Written Engineer's Report

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

Appendices

Appendix A Sanitary Sewer and Water Demand Calculations

- Downstream Sewer Capacity Analysis

Appendix B Storm Sewer System Drainage Calculations

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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Section 1 - Location & Description

This project is a redevelopment of a 5.17 acre site located on Dodge Road in the Town of Amherst. Construction will consist of two three story multi-family buildings and six townhouse buildings with attached garages totaling 108 units, detached garage buildings, and associated utility, lighting and landscaping improvements. Currently the site is developed and utilized as a landscape nursery. All existing structures on site are to be demolished. The proposed site development area to be disturbed for this project is approximately 5.17 acres when construction is completed.

Section 2 - Water Service

Water service for the multi-family development will be tapped off the existing 8" ECWA water main on the south side of Dodge Road. The service will be a 6" Class 52 DI combined water service to cross Dodge Road, then continue into an interior utility room of the clubhouse building where the 6" meter and RPZ will be installed. Proper heat and lighting will be provided to the enclosure, drainage due to testing or failure of the RPZ will be to the outside grade. The owner will be responsible for keeping the drainage ports clear of snow and debris. Water inside the multi-family buildings and clubhouse will be used for typical domestic uses.

The three story multi-family buildings are to be sprinklered, interior fire protection system to be designed by others. One private hydrant will be installed on site and two existing public hydrants along Dodge Road will ensure fire hose coverage not exceeding 600' for sprinklered buildings and 400' for non-sprinklered buildings.

Domestic Summary:	
Peak Operating Demand:	90.75 gpm
Water Main:	8" on Dodge Road
Static Pressure:	100 psi (ECWA)
Friction Loss:	0.0 psi
Loss through meter/RPZ:	13.0 psi
Elevation Loss:	0.0 psi
Pressure after RPZ:	87.0 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 multi-family development will have a private 8" SDR-35 PVC sanitary lateral at 0.4% minimum slope route through the site. All multi-family, clubhouse and townhouse buildings will connect to this 8" private sewer via a 6" SDR-35 PVC sanitary lateral at 2.0% minimum. The private 8" sanitary sewer will connect the nearest public sanitary sewer manhole along the western boundary of the project site and a new public sanitary sewer manhole will be installed on the project site to allow for the connection to the existing public sanitary sewer. This public manhole will be located in a 30'x30' easement to the Town of Amherst.

Design Parameters

1-bedroom unit:	110 gal/day/units x 36 units = 3,960 gpd
2-bedroom unit:	220 gal/day/units x 72 units = 15,840 gpd
	Total = 19,800 gpd

19,800 gpd * 4.15 = 82,163 gpd *use peaking factor of 4.15

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

Downstream sewer capacity analysis report is included in Appendix A of this report.

Section 4 - Storm Sewer Service

The existing site currently sheet drains in multiple directions, either towards the center of the site to an existing ditch which drains to the existing storm sewer system along Dodge Road, or north towards the Thruway property directly adjacent to the project site.

Stormwater runoff collected onsite as a result of the proposed development will be routed through the proposed storm sewer system consisting of bioretention areas, underground detention system and a wet detention basin connected by a series of manholes, catch basins, yard drains and smooth interior HDPE pipe. The bioretention areas on site are designed to provide 100% of the required runoff reduction volume (RRv). The soils in the vicinity of the bioretention areas are mainly USDA hydrologic group 'D' and therefore the system will be installed with underdrains per NYSDEC requirements. The bioretention areas will consist of 6" perforated HDPE underdrains in 12" of drainage gravel, followed by filter fabric and then finally 18" minimum of planting soil. Overflow yard drains will be installed to allow 6" maximum ponding for RRv treatment. Stormwater detention is required per NYSDEC standards and specifications. The underground detention field was designed to consist of ADS StormTech SC-740 chambers to allow for stormwater to be temporarily stored and discharged at a controlled rate. The chamber system is surrounded by stone and wrapped in geotextile fabric. Note that StormTech is one type of "chamber" system and there are several other by different manufacturers that may be used pending approval by the design engineer. Site specific shop drawings will be required from the contractor for approval by the engineer prior to construction of the specific system selected. An 8" outlet control pipe will be provided downstream of the underground detention field underdrain pipe and header pipe to include a water quality treatment unit. Discharge from the outlet pipe of the underground detention system will outlet to an existing 12" culvert pipe which crossed Dodge Road and discharges to the existing storm sewer system along the south side of Dodge Road. A wet detention pond will attenuate stormwater runoff generated in the north and west portions of the project using an 8" outlet control pipe to attenuate proposed runoff to required existing conditions prior to discharge off site. Discharge from the wet detention basin will outlet to an existing swale in the northwest corner of the property.

Chapter 9 of the NYSDEC Stormwater Management Design Manual details design requirements for redevelopment projects, which this project is categorized as. Runoff reduction is required for this project since the proposed impervious area (3.35 ac) is greater than the existing impervious area (2.30 ac). Water Quality Volume treatment is also required since there is a proposed increase in impervious area (1.05 ac). Runoff reduction volume (RRv), water quality volume (WQv) and stormwater volume attenuation for the site is designed in accordance with Chapter 4 of the NYSDEC Stormwater design manual. The bioretention areas are provided as a "green infrastructure" practice to provide runoff reduction and water quality treatment to meet the Chapter 4 requirements for the currently undeveloped areas. Runoff from the site was looked at as a whole for the calculation of volume attenuation requirements. The proposed underground detention field and wet detention basin is designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates, as well as the below stated Town stormwater runoff requirements.

<u>Town of Amherst Requirement:</u>
The Town of Amherst requires that the 25-year proposed storm event be attenuated with detention and that the outlet flowrate be restricted to the 10-year existing storm event. Since this project proposed two separate stormwater outlet points, volume attenuation is accomplished in both the dry detention basin and the underground detention system as shown by the below stormwater runoff summary tables.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Underground Detention Basin Summary:
ADS StormTech SC-740
Top of chambers = 581.67
Bottom of chambers = 579.17
Bottom of stone = 578.67
100-year storm storage volume = 14,839 cf @ 581.93

Water Quality Summary:
WQv req'd = 6,264 cf (0.144 ac-ft)
RRv min. req'd = 1,124 cf (0.026 ac-ft)
RRv provided - bioretention areas = 1,128 cf (0.026 ac-ft)
WQv provided – bioretention areas = 115 cf (0.003 ac-ft)
WQv provided – wet pond = 6,340 cf (0.146 ac-ft)
WQv provided – treatment structure = 2,991 cf (0.069 ac-ft)
Total RRv + WQv provided = 115 cf + 1,128 cf + 6,340 cf + 2,991 cf = 10,574 cf (0.243 ac-ft)

Bioretention: 100% of minimum post-development Runoff Reduction volume (RRv)
Area: 2,180 sf (total)
Bottom Elevation: 583.00

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

Runoff Summary (Culvert/Dodge Road):

Event	Ex. Runoff (cfs)*	Pro. Runoff (cfs)**	Result (cfs)
1-year	5.02	1.64	-3.38
10-year	10.93	2.84	-8.09
25-year	14.28	3.45	-10.83
100-year	20.94	4.75	-16.19

* Existing runoff is the summation of the runoff flowrate from subcatchments 2S and 4S shown Appendix B of this report.

** Proposed runoff flowrate is the rate controlled by the 8" outlet pipe from the underground detention basin which discharges to the existing 12" culvert pipe, which crosses Dodge Road to an existing storm drainage system along the south side of Dodge Road.

Runoff Summary (Ditch/Thruway):

Event	Ex. Runoff (cfs)*	Pro. Runoff (cfs)**	Result (cfs)
1-year	1.39	1.01	-0.38
10-year	2.94	1.61	-1.33
25-year	3.85	1.89	-1.96
100-year	5.66	2.35	-3.31

* Existing runoff is the summation of the runoff flowrate from subcatchment 1S and 3S shown Appendix B of this report.

** Proposed runoff flowrate is the rate controlled by the 8" outlet pipe from the wet detention basin which discharges to the existing along the northwest corner of the project site.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix A

Sanitary Sewer and Water Demand Calculations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN
487 MAIN STREET, SUITE 500
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 22.296 Date: 3/20/2023
Project Name: Multi-Family Development rev. 8/22/25
Project Address: 480 Dodge Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 2

Sanitary Sewage Demand Calculations:

Proposed Towhouses

110	gal/d/unit	x	36 units	=	3,960	gpd	*use 110 gallons per unit per day (1-bdrm)
220	gal/d/unit	x	72 units	=	15,840	gpd	*use 220 gallons per unit per day (2-bdrm)

Total Site Sanitary Demand: = 19,800 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 19,800 gpd / 100 gpcd = 198 per capita

Population (P) = 198 people

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

Peaking Factor = 4.15

Peak Sanitary Demand = 19,800 x 4.15 = 82,163 gpd
= 0.082 MGD
= 0.127 cfs

Required Infiltration and Inflow Mitigation:

Peak Sanitary Flow = 82,163 gpd = 57.06 gpm

4:1 offset flow per NYSDEC requirements = 57.06 x 4 = 228.23 gpm req'd

Mitigation Credit = $250 / gpm

Mitigation Agreement Amount = $57,057.36

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN
487 MAIN STREET, SUITE 500
BUFFALO, NEW YORK, 14203
(716) 842-3165
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Project No.: 22.296 Date: 3/20/2023
Project Name: Multi-Family Development rev. 8/22/25
Project Address: 480 Dodge Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 2 of 2

1.a

Water Demand Calculations (domestic):

Proposed Multi-Family

19,800 gpd x 1.1 = 21,780 gpd *use 110% of sewage demand

*use 1.8 peaking factor and assume a 12 hour day

21,780 gpm x 1day/12hr x 1hr/60min = 30.25 gpm

30.25 gpm x 3.0 = 90.75 gpm Q_{peak}

Headlosses:

Q_{peak} = 90.75 gpm
Pipe = 6 inch Ductile Iron C = 140
Length = 125 LF (approx. distance from tap to RPZ)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(125)(73.81)^{1.85}}{(140)^{1.85}\ (6)^{4.866}} = 0.10 \text{ ft} = 0.04 \text{ psi}$$

Δ elev = 0 ft = 0.00 psi
Loss through meter = 1 psi
Loss through RPZ = 12 psi
Total Losses = 13.0 psi
Static Pressure = 100 psi (per ECWA)
Residual Pressure Following RPZ = 100 - 13.0 = 87.0 psi (available after rpz & meter)

Residual Pressure 30" above 3rd Floor
Δ elev = 21 ft = 9.09 psi
Residual Pressure 30" above 3rd Floor = 77.9 psi

Water Demand Calculations (fire):

Proposed Multi-Family

Q = 1,000 gpd

Headlosses:

Q_{peak} = 1000 gpm
Pipe = 6 inch Ductile Iron C = 140
Length = 125 LF (approx. distance from tap to RPDA)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(125)(1000)^{1.85}}{(140)^{1.85}\ (6)^{4.866}} = 8.11 \text{ ft} = 3.51 \text{ psi}$$

Δ elev = 0 ft = 0.00 psi
Loss Through RPZ = 12.0 psi
Total Losses = 15.5 psi
Static Pressure = 100.0 psi (per ECWA)
Residual Pressure after RPDA = 100 - 15.5 = 84.5 psi

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Downstream Sewer Capacity Analysis

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN

DOWNSTREAM SANITARY SEWER CAPACITY ANALYSIS REPORT

for

Multi-Family Project

480 Dodge Road
Town of Amherst, Erie County, New York

Prepared for

The Green Organization

6465 Transit Road
East Amherst, NY 14051

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

March 2023
rev. December 2023
rev. April 2025
rev. August 2025



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Description

This project is a redevelopment of a 5.17 acre site located at 480 Dodge Road in the Town of Amherst. Construction will consist of two three story multi-family buildings and six townhouse buildings with attached garages totaling 108 units, detached garage buildings, and associated utility, lighting and landscaping improvements. Currently the site is developed and utilized as a landscape nursery. All existing structures on site are to be demolished. The proposed site development area to be disturbed for this project is approximately 5.17 acres when construction is completed.

An existing 15" public sanitary sewer main is located adjacent to the parcel to the west of the property (460 Dodge Road) and will be utilized for this project. The proposed multi-family development will have a private 8" SDR-35 PVC sanitary lateral at 0.4% minimum slope route through the site. All multi-family, clubhouse and townhouse buildings will connect to this 8" private sewer via a 6" SDR-35 PVC sanitary lateral at 2.0% minimum. The private 8" sanitary sewer will connect the nearest public sanitary sewer manhole along the western boundary of the project site and a new public sanitary sewer manhole will be installed on the project site to allow for the connection to the existing public sanitary sewer. This public manhole will be located in a 30'x30' easement to the Town of Amherst.

Wastewater from the proposed project will flow west along Dodge Road via an 18" sewer, and then west along Dodge Road via the 60" Peanut Line sewer. Flows then continue west and are conveyed north through an 84" sewer, and then ultimately to the Town of Amherst Wastewater Treatment Facility. Refer to the sewer routing map located in the TECSmith monitoring section of this downstream sewer capacity analysis report.

Node 1 – 340 Dodge Road (18"):

Existing Peak Flow measured (wet weather event)	= 0.043 cfs (0.028 mgd)*
Proposed 480 Dodge Road Peak Flow	= 0.127 cfs**
Proposed Total Peak Flow	= 0.170 cfs

Theoretical capacity of existing 18" RCP pipe @ 0.06% = 3.038 cfs

Conclusion: The proposed total peak flow is less than the capacity of the 18" ACP pipe, therefore there is sufficient capacity. At no time during the monitoring period did flow depth exceed the pipe diameter at Node 1 of the downstream monitoring points during the rain events monitored.

Node 2 – North Ellicott Creek Road (60"):

Existing Peak Flow measured (wet weather event)	= 31.763 cfs (20.532 mgd)*
Proposed 480 Dodge Road Flow Peak Flow	= 0.127 cfs**
Proposed Total Peak Flow	= 31.890 cfs

Theoretical capacity of existing 60" RCP pipe @ 0.07% = 81.366 cfs

Conclusion: The proposed total peak flow is less than the capacity of the 60" RCP pipe, therefore there is sufficient capacity. At no time during the monitoring period did flow depth exceed the pipe diameter at Node 2 of the downstream monitoring points during the rain events monitored.

Node 3 – Peanut Line (66"):

Existing Peak Flow measured (wet weather event)	= 56.466 cfs (36.50 mgd)*
Proposed 480 Dodge Road Peak Flow	= 0.127 cfs**
Proposed Total Peak Flow	= 56.593 cfs

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Capacity of existing 66” Peanut Line sewer = 88.798 cfs (57.4 mgd)

Conclusion: The proposed total peak flow is less than the capacity of the 66” Peanut Line sewer, therefore there is sufficient capacity.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

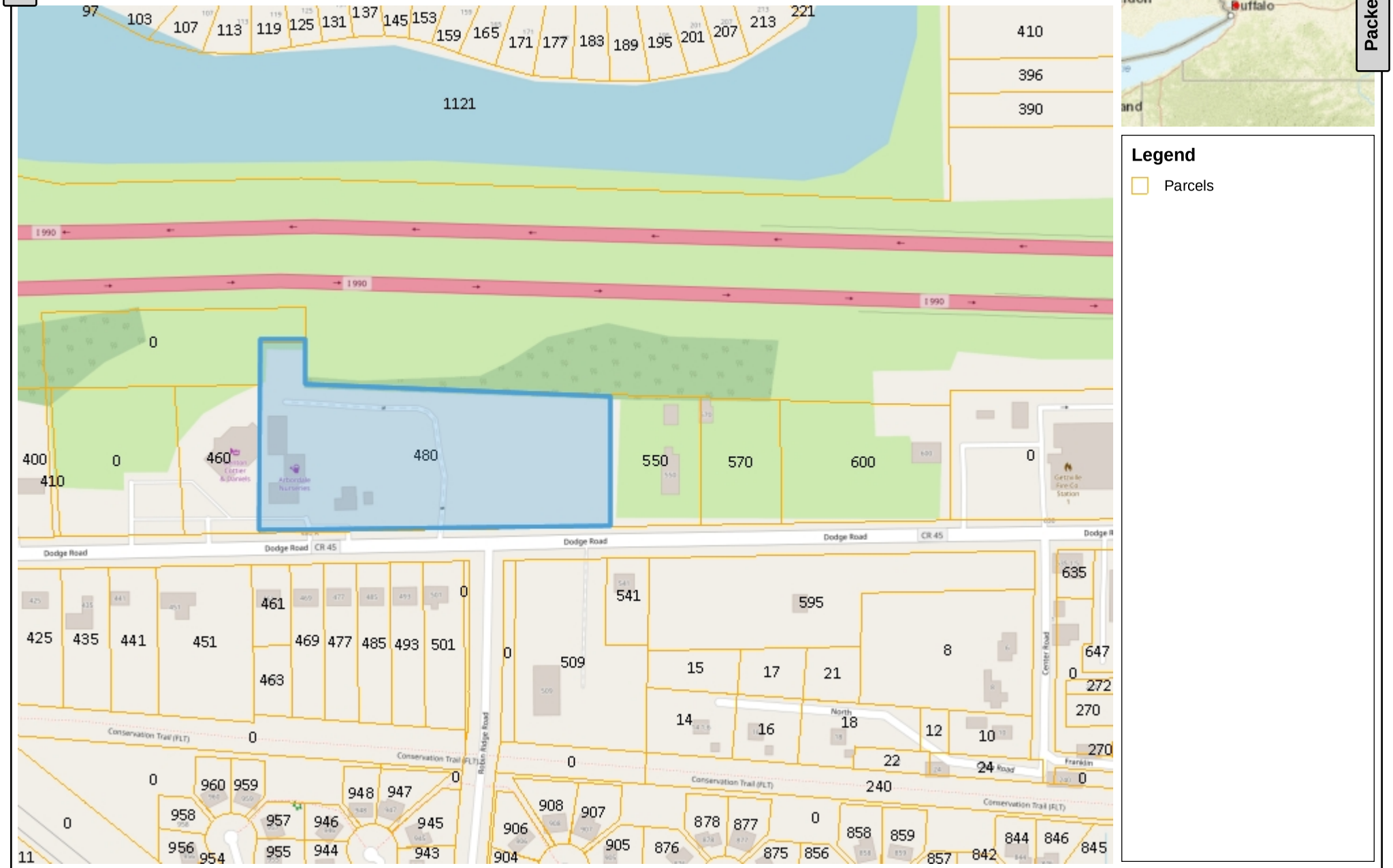
Foot Notes:
Downstream capacity node information provided by Town of Amherst Engineering Department
*Converted from measurements in TECSmith report dated 8/12/20
**See Sanitary Sewage Demand Calculations

Location Map

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Erie County On-Line Mapping Application





Legend

- Parcels

0 0.07 0.1 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: 4,514

Sanitary Demand Calculations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN
487 MAIN STREET, SUITE 500
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 22.296 Date: 3/20/2023
Project Name: Multi-Family Development rev. 8/22/25
Project Address: 480 Dodge Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 2

1.a

Sanitary Sewage Demand Calculations:

Proposed Towhouses

110 gal/d/unit	x	36 units	=	3,960	gpd		*use 110 gallons per unit per day (1-bdrm)
220 gal/d/unit	x	72 units	=	15,840	gpd		*use 220 gallons per unit per day (2-bdrm)

Total Site Sanitary Demand: = 19,800 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 19,800 gpd / 100 gpcd = 198 per capita

Population (P) = 198 people

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

Peaking Factor = 4.15

Peak Sanitary Demand = 19,800 x 4.15 = 82,163 gpd
= 0.082 MGD
= 0.127 cfs

Required Infiltration and Inflow Mitigation:

Peak Sanitary Flow = 82,163 gpd = 57.06 gpm

4:1 offset flow per NYSDEC requirements = 57.06 x 4 = 228.23 gpm req'd

Mitigation Credit = $250 / gpm

Mitigation Agreement Amount = $57,057.36

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TECSmith Monitoring Report

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Date	Node 1			Node 2			Rain₂
	340 Dodge Road (18")			North Ellicott Creek Rd. (60")			(inches)
	FLOW (GAL x 1,000)	PEAK FLOW (MGD)	PEAK LEVEL (IN)	FLOW (GAL x 1,000)	PEAK FLOW (MDG)	PEAK LEVEL (IN)	
7/14/2020	2.772	0.016	1.480	6974.494	9.101	15.869	*0*
7/15/2020	4.498	0.017	1.409	6591.385	8.845	15.512	*0*
7/16/2020	8.981	0.028	1.915	9916.241	20.532	27.213	***0.86***
7/17/2020	7.891	0.023	1.581	10096.644	16.639	23.493	***0.03***
7/18/2020	4.239	0.018	1.514	8256.593	10.757	17.307	*0*
7/19/2020	4.120	0.017	1.443	7589.558	11.382	18.060	***0.21***
7/20/2020	5.074	0.018	1.463	7269.757	9.235	16.144	*0*
7/21/2020	4.950	0.021	1.574	6681.658	8.895	15.365	*0*
7/22/2020	7.724	0.025	1.803	8633.887	15.390	22.402	***0.42***
7/23/2020	6.646	0.022	1.634	7327.211	9.216	16.027	*0*
7/24/2020	4.713	0.017	1.457	6764.464	8.779	15.317	*0*
7/25/2020	4.290	0.017	1.452	6426.122	8.861	15.407	*0*
7/26/2020	3.747	0.022	1.443	6409.255	8.667	15.297	*0*
7/27/2020	7.977	0.020	1.740	6487.339	8.269	15.107	***0.03***
7/28/2020	6.442	0.017	1.514	6298.427	8.016	14.780	***0.01***
7/29/2020	7.408	0.019	1.574	8340.302	16.584	23.592	***0.18***
7/30/2020	8.040	0.024	1.628	6969.955	8.785	15.769	*0*
7/31/2020	6.650	0.021	1.577	6450.443	8.415	15.050	*0*
8/1/2020	6.228	0.022	1.525	6190.340	8.162	14.979	*0*
8/2/2020	7.807	0.025	1.638	7093.727	10.270	17.033	***0.29***
8/3/2020	8.748	0.025	1.748	6767.967	8.538	15.346	*0*
8/4/2020	8.173	0.023	1.663	6796.062	10.365	17.180	***0.9***
8/5/2020	8.747	0.026	1.743	8708.573	13.072	20.203	*0*
8/6/2020	5.549	0.024	1.538	6692.090	8.551	15.230	*0*
8/7/2020	3.728	0.022	1.634	6318.850	8.227	14.918	*0*
8/8/2020	5.740	0.022	1.580	6101.179	8.330	15.085	*0*
8/9/2020	4.715	0.017	1.563	6073.131	8.252	14.955	*0*
8/10/2020	7.088	0.020	1.628	6101.557	7.953	14.573	*0*
8/11/2020	3.030	0.019	1.576	2981.304	8.010	14.695	*0*
---	---	---	---	---	---	---	***2.93***

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TECsmith

TECSMITH, Inc.
PO Box 383
Elma, New York 14059-0383
Tel: 716-462-0382
Fax: 716-687-1418

Date: August 12, 2020

SANITARY SEWER FLOW CAPACITY STUDY – Summary Review

Prepared For: 460 Dodge Road Capacity Analysis

Christopher Wood
487 Main Street, Suite 600
Buffalo, New York 14203
P: (716) 842-3165
F: (716) 842-0263

Project Name: 460 Dodge Road Capacity Analysis

Flow Monitoring Period: July 8, 2020 to August 5, 2020

Rain Events (> 0.5-inches) Monitored: July 16 (0.86”), and August (0.90”)

Number of Monitoring Nodes: Two (2) downstream manholes

Node Locations and Descriptions:

- Node 1 340 Dodge Road (18")
- Node 2 Dodge Rd 60" (60")

Summary Conclusion:

Based on the data presented in this report, specifically the flow depth measurements recorded (see graphs below)

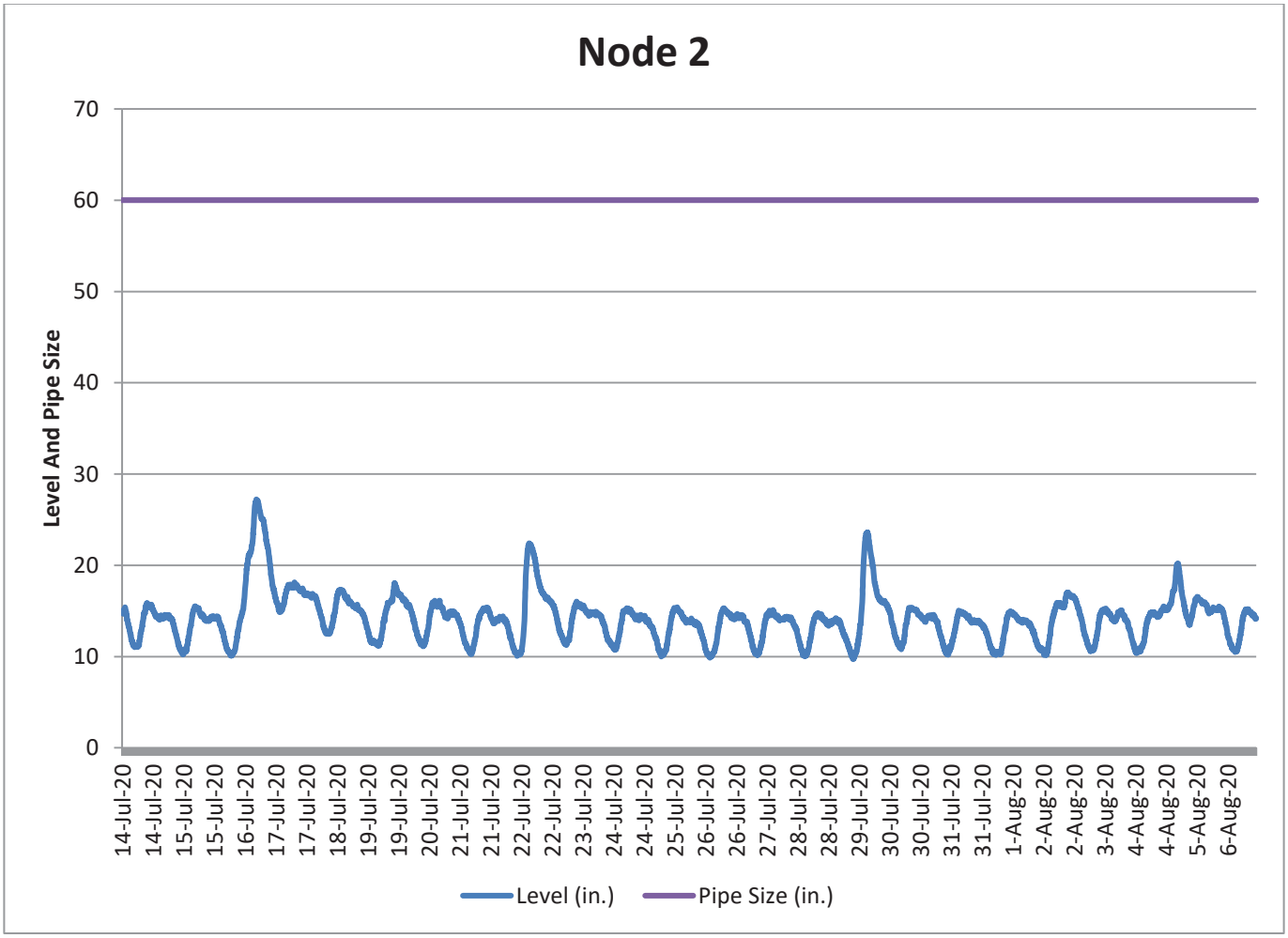
- At no time did the flow depth exceed pipe diameter at any of the downstream monitoring points during the rain events monitored.
- At no time during the monitoring period did the flow at any point slow or stall which would have caused a backup or flooding at the manhole.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TECsmith

TECSMITH, Inc.
PO Box 383
Elma, New York 14059-0383
Tel: 716-462-0382
Fax: 716-687-1418

- At no time during the monitoring period did depth of flow exceed pipe diameter at Node 2.



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

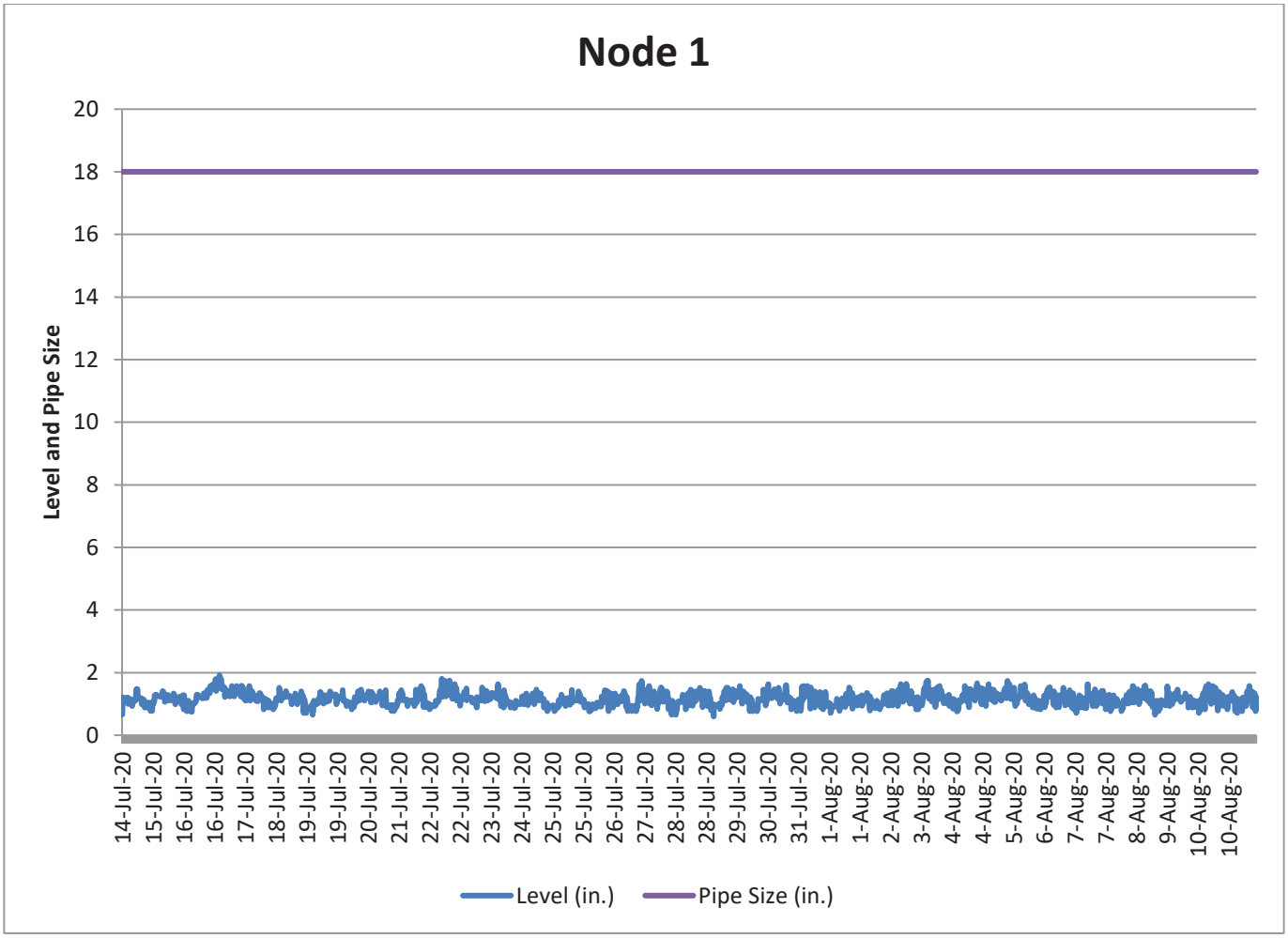
TECsmith

TECSMITH, Inc.
PO Box 383
Elma, New York 14059-0383
Tel: 716-462-0382
Fax: 716-687-1418

Depth of Flow Capacity Summary:

Depth of flow capacity is based on diameter of pipe. See graphs below.

- At no time during the monitoring period did depth of flow exceed pipe diameter at Node 1.



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Town of Amherst Sanitary Sewer Downstream Routing Maps

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Town of Amherst Engineering Department
Sewer Maintenance Division

Main Sanitary Sewer Interceptors

DOWNSTREAM SEWER

AMHERST PEANUT LINE & WEST SIDE INTERCEPTOR

460 Dodge Road - Proposed 26 Unit Apartment Building - Amherst Consolidated Sewer District

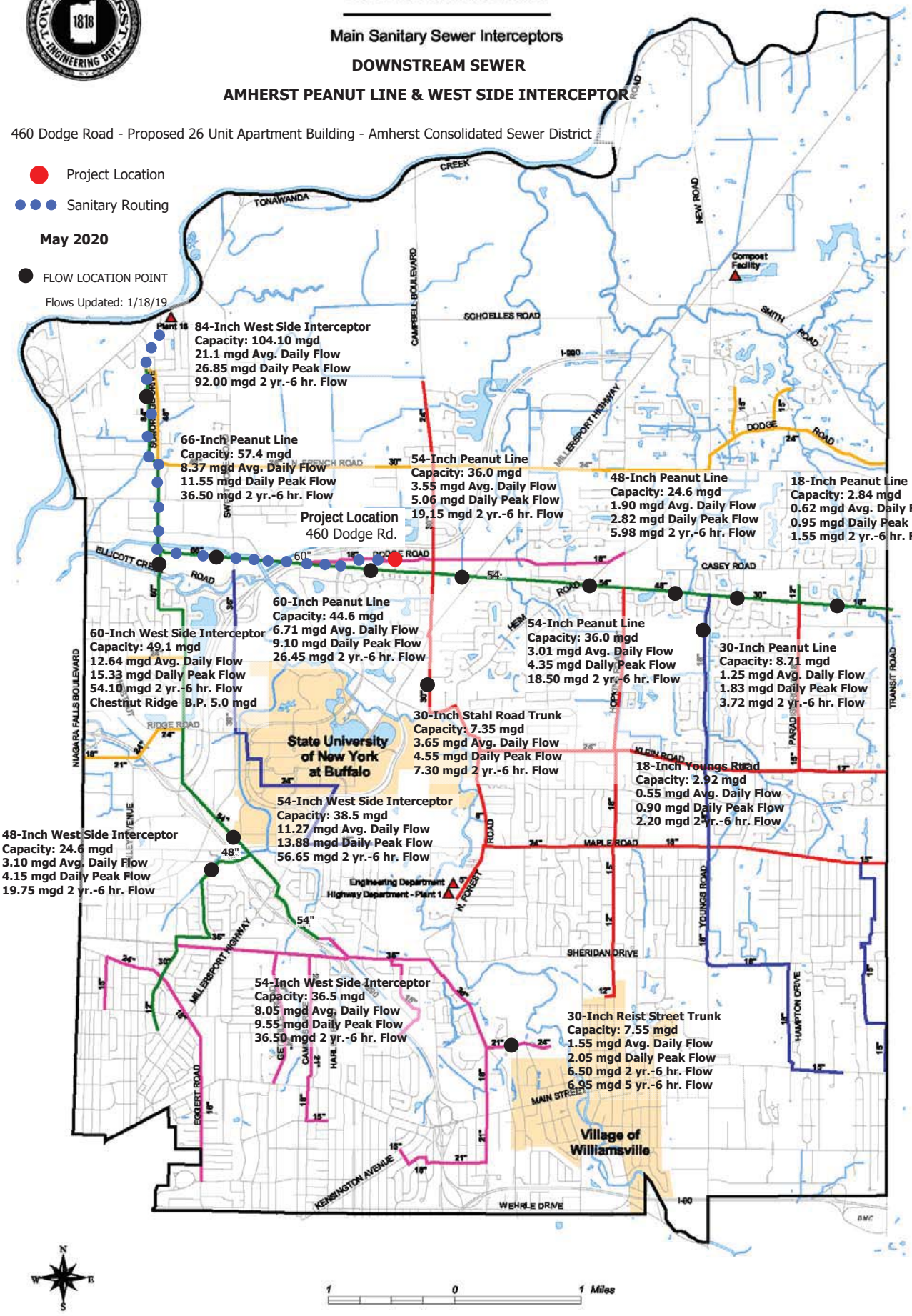
Project Location

Sanitary Routing

May 2020

FLOW LOCATION POINT

Flows Updated: 1/18/19



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

1.a

0837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix B

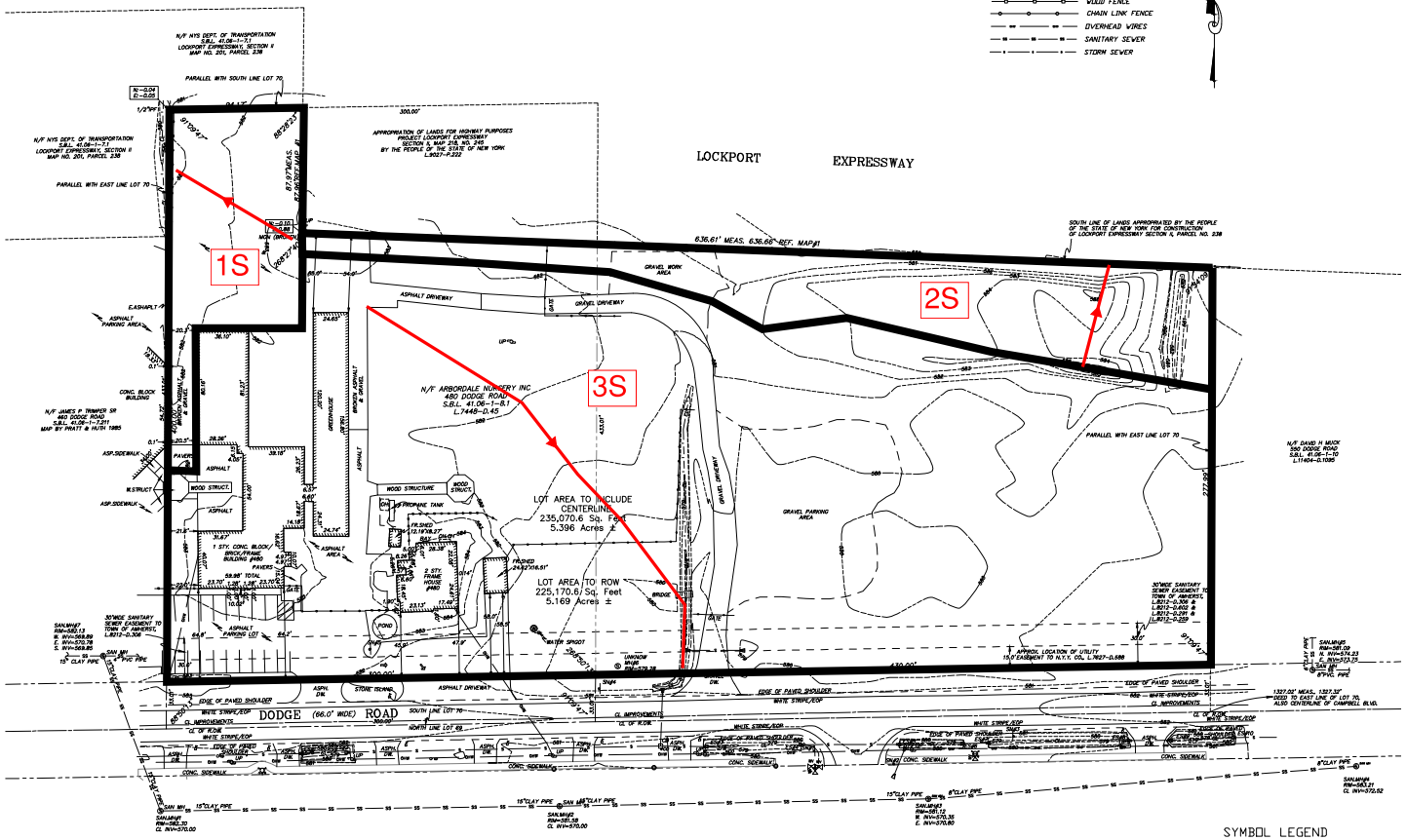
Storm Sewer System Drainage Calculations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Existing Runoff

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

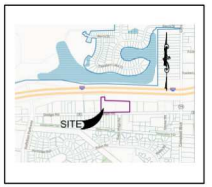
EXISTING RUNOFF



LINE LEGEND

These standard symbols will be found in the drawing.

- HATCH-BUILDING
- CL
- WOOD FENCE
- CHAIN LINK FENCE
- OVERHEAD WIRES
- SANITARY SEWER
- STORM SEWER



VICINITY MAP

REFERENCE MAPS:

1. MAP OF 460 DODGE ROAD BY LANDMARK LAND SURVEYING CO., JOB NO. 2040699, SURVEY UPDATED 09-26-22 FOR S.B.L. 41.06-1-8.1
2. MAP OF 460-480 DODGE ROAD BY PRATT & HUTH ASSOCIATES, JOB. NO. 00460, LAST REVISED JUNE 28, 1988

UN-PLOTTABLE EASEMENTS::

1. RIGHT-OF-WAY TO NATIONAL FUEL GAS DIST. CORP. FOR GAS MAIN PER LIBER 8707 OF DEEDS, PAGE 98.
2. EASEMENT TO TOWN OF AMHERST FOR 8" SANITARY SEWER ACROSS 25' FEET SOUTHERLY REAL PROPERTY FOR LIBER 8212 OF DEEDS, PAGE 306.
3. EASEMENT TO TOWN OF AMHERST FOR 30" SANITARY SEWER PER LIBER 7088 OF DEEDS, PAGE 220.
4. EASEMENT TO TOWN OF AMHERST FOR SEWER LINE PER LIBER 8212 OF DEEDS, PAGE 306.
5. RIGHT-OF-WAY TO NIAGARA GAS CORP. FOR GAS MAIN PER LIBER 7269 OF DEEDS, PAGE 98.

ABSTRACTS OF TITLE:

1. ABSTRACT OF TITLE BY EQUITY TITLE AGENCY, LLC, SEARCH No. E22-5600BAE, DATED AUGUST 18, 2022 FOR 460 DODGE ROAD, S.B.L. 41.06-1-8.1
2. ABSTRACT OF TITLE BY EQUITY TITLE AGENCY, LLC, SEARCH No. E22-5600BAE, DATED AUGUST 18, 2022 FOR 480 DODGE ROAD, S.B.L. 41.06-1-8.1

ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. BEFORE YOU DIG, DRILL, OR BLAST, CALL UFPO AT 1-800-962-7962.

NOTE:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING RECORD DRAWINGS PROVIDED TO THE SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. ADDITIONAL BURIED UTILITIES OF UNKNOWN LOCATION MAY EXIST. NO EXCAVATION WAS MADE TO VERIFY THE EXISTENCE OR LOCATION OF BURIED UTILITIES. THE SURVEYOR FURTHER DOES NOT WARRANT OR GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. BEFORE EXCAVATION ARE REQUIRED, THE APPROPRIATE AGENCIES SHOULD BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

1. VERTICAL CONTROL REFERENCED TO NAVD 88 VERTICAL DATUM.
2. HORIZONTAL CONTROL BASED ON NY STATE PLANE COORDINATE SYSTEM – NAD83 NY WEST ZONE.

END SECTION INVERTS:

ES#1	12" CMP	577.08
ES#2	12" CMP	578.35
ES#3	12" CMP	577.84
ES#4	12" CMP	578.33
ES#5	12" CMP	578.69
ES#6	12" HDPE	578.57
ES#7	12" HDPE	578.49
ES#8	12" HDPE	578.71
ES#9	12" HDPE	578.06
ES#10	12" CMP	578.89

STREET & SITE SIGNS:

SN#1	STREET SIGN	ROBIN RIDGE RD & DODGE RD
SN#2	STOP SIGN	
SN#3	SPEED LIMIT 40MPH	
SN#4	SPEED LIMIT 40 MPH	
SN#5	PYLON SIGN	ARBORDALE NURSERIES LANDSCAPING

SYMBOL LEGEND

These standard symbols will be found in the drawing.

- SIGN
- CATCHBASIN
- SANITARY SEWER
- WATER VALVE
- SEWER CLEAN OUT
- HYDRANT
- UTILITY POLE
- SPOT ELEVATION
- WELL
- MAILBOX
- YD YARD DRAIN
- END SECTION

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NOTE: THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE.

0 40 80 120

BOUNDARY & TOPOGRAPHIC SURVEY OF
PART OF LOT 70, TOWNSHIP 12, RANGE 7,
OF HOLLAND LAND COMPANY'S SURVEY
TOWN OF AMHERST, ERIE COUNTY, NEW YORK

GPI ENGINEERING, LANDSCAPE ARCHITECTURE & SURVEYING, LLP
ENGINEERING • SURVEYING • LANDSCAPE ARCHITECTURE
4820 SENECA STREET, SUITE 100
BUFFALO, NEW YORK 14228
(716) 633-4844 FAX 63

Job No. 10470 Date: DECEMB
Scale: 1" = 40' TAX No. 41.0

REVISION/TYPE

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Events for Subcatchment 1S: West

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.87	0.95	1,924	1.36
2-Year	2.20	1.15	2,370	1.67
5-Year	2.69	1.45	3,040	2.15
10-Year	3.14	1.72	3,661	2.59
25-Year	3.84	2.15	4,634	3.27
50-Year	4.48	2.53	5,528	3.90
100-Year	**5.23**	**2.98**	**6,579**	**4.65**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Events for Subcatchment 2S: East

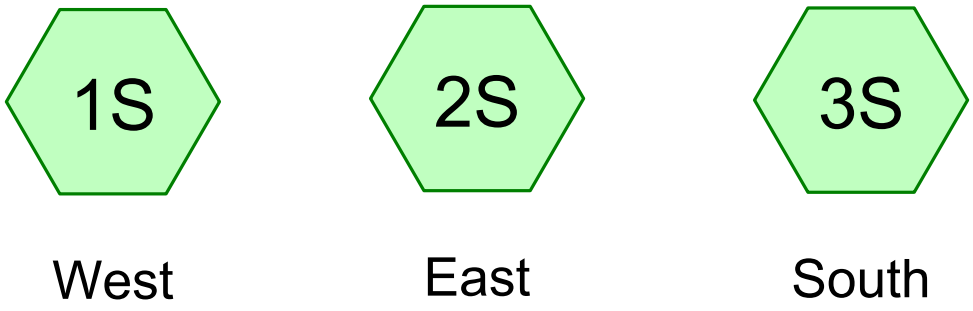
Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.87	0.44	1,291	0.56
2-Year	2.20	0.63	1,793	0.78
5-Year	2.69	0.93	2,606	1.14
10-Year	3.14	1.22	3,408	1.49
25-Year	3.84	1.70	4,727	2.07
50-Year	4.48	2.14	5,988	2.62
100-Year	**5.23**	**2.68**	**7,514**	**3.29**

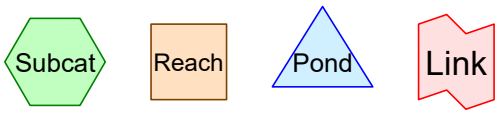
Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Events for Subcatchment 3S: South

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.87	5.02	13,877	0.92
2-Year	2.20	6.51	18,016	1.20
5-Year	2.69	8.80	24,436	1.62
10-Year	3.14	10.93	30,533	2.03
25-Year	3.84	14.28	40,270	2.67
50-Year	4.48	17.35	49,354	3.28
100-Year	**5.23**	**20.94**	**60,145**	**3.99**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)





Routing Diagram for 22.296 existing
Prepared by Carmina Wood Morris, PC, Printed 3/17/2023
HydroCAD® 10.20-2g s/n 05019 © 2022 HydroCAD Software Solutions LLC

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	Type II 24-hr		Default	24.00	1	1.87	2
2	2-Year	Type II 24-hr		Default	24.00	1	2.20	2
3	5-Year	Type II 24-hr		Default	24.00	1	2.69	2
4	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
5	25-Year	Type II 24-hr		Default	24.00	1	3.84	2
6	50-Year	Type II 24-hr		Default	24.00	1	4.48	2
7	100-Year	Type II 24-hr		Default	24.00	1	5.23	2

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
12,632	84	50-75% Grass cover, Fair, HSG D (1S, 3S)
58,806	96	Gravel surface, HSG D (1S, 3S)
41,382	98	Paved parking, HSG D (3S)
112,385	82	Woods/grass comb., Fair, HSG D (2S, 3S)
225,205	**89**	**TOTAL AREA**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
225,205	HSG D	1S, 2S, 3S
0	Other	
225,205		**TOTAL AREA**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	12,632	0	12,632	50-75% Grass cover, Fair	
0	0	0	58,806	0	58,806	Gravel surface	
0	0	0	41,382	0	41,382	Paved parking	
0	0	0	112,385	0	112,385	Woods/grass comb., Fair	
0	**0**	**0**	**225,205**	**0**	**225,205**	**TOTAL AREA**	

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=1.36"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=0.95 cfs 1,924 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=0.56"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=0.44 cfs 1,291 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=0.92"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=5.02 cfs 13,877 cf

Total Runoff Area = 225,205 sf Runoff Volume = 17,093 cf Average Runoff Depth = 0.91"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

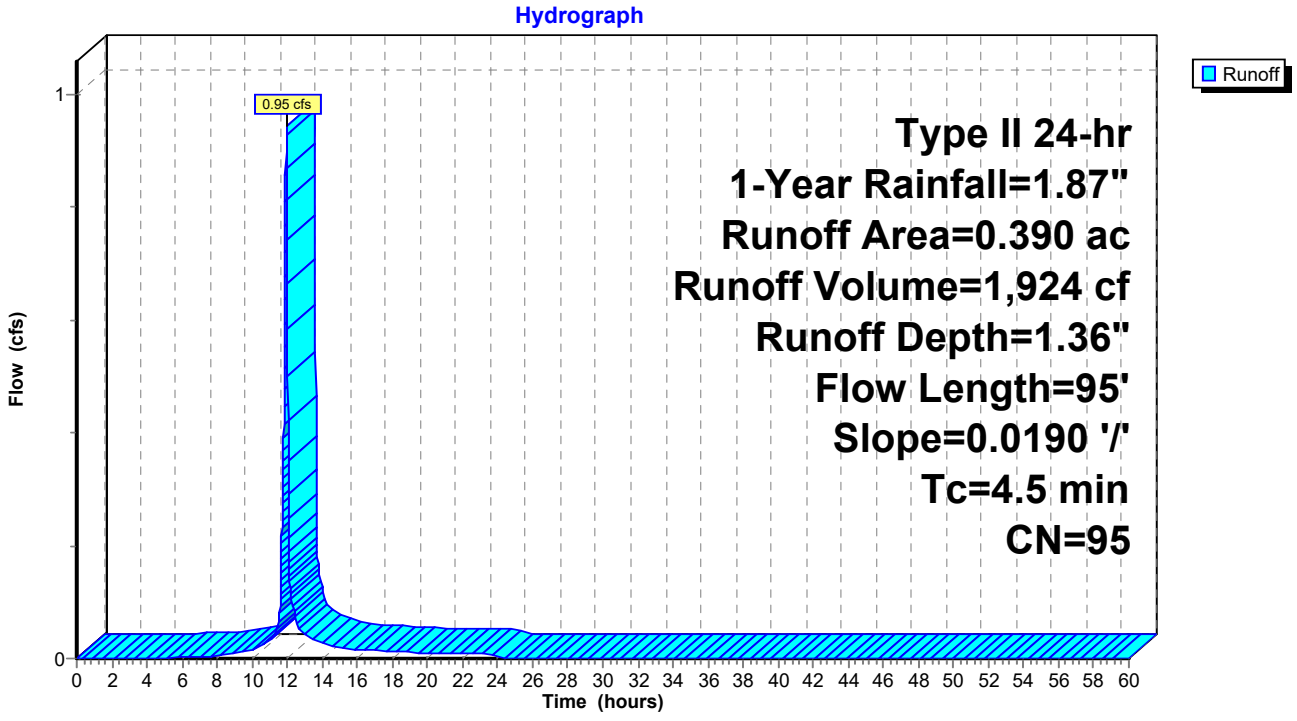
Runoff = 0.95 cfs @ 11.95 hrs, Volume= 1,924 cf, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

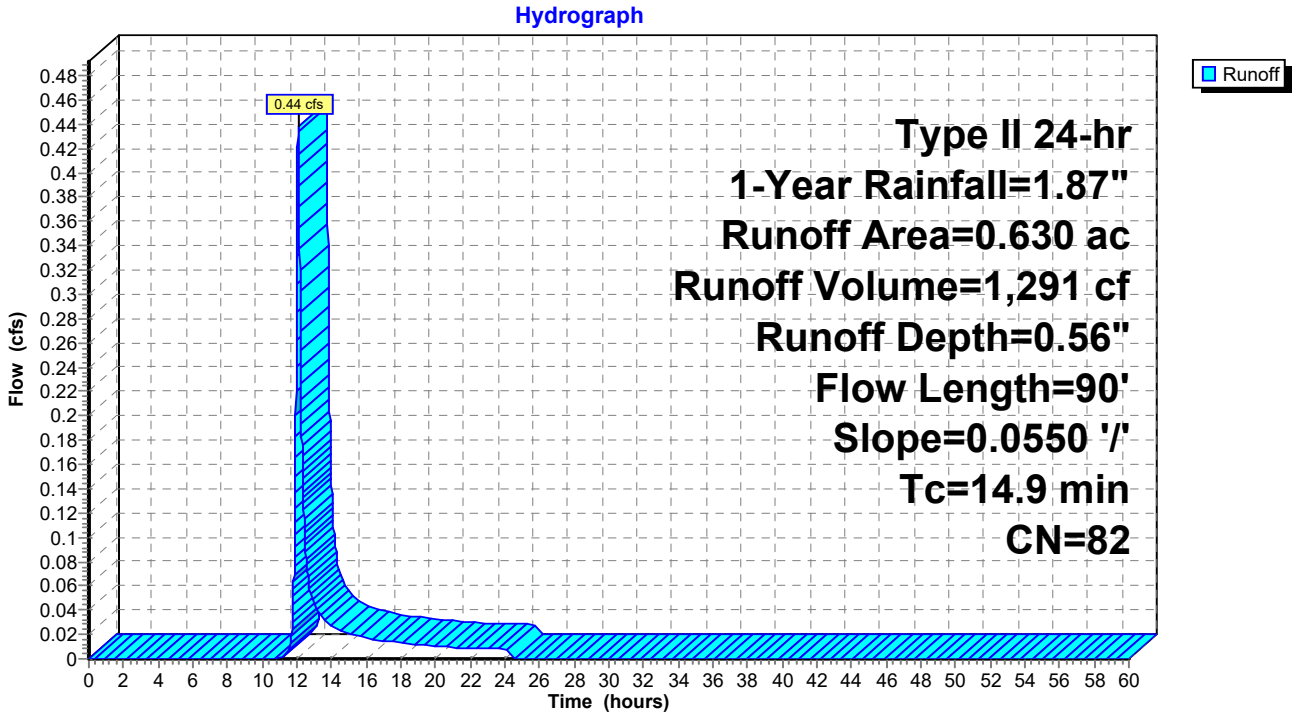
Runoff = 0.44 cfs @ 12.08 hrs, Volume= 1,291 cf, Depth= 0.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

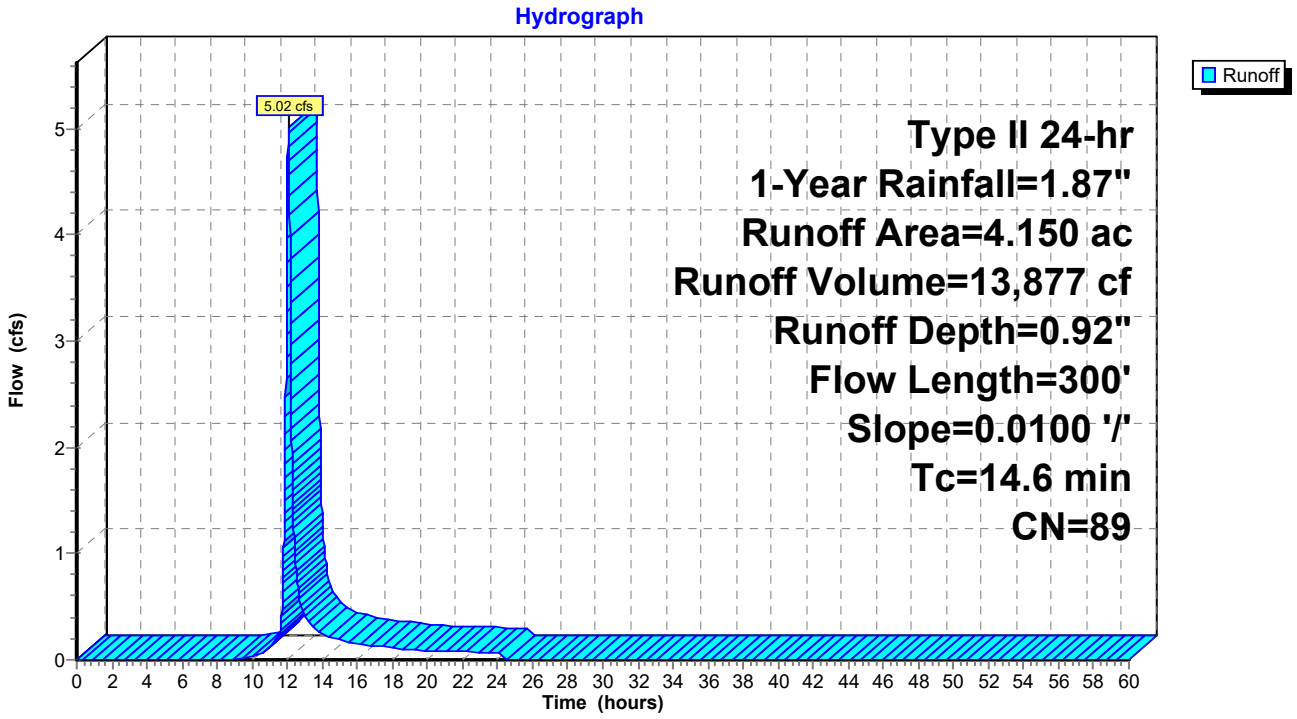
Runoff = 5.02 cfs @ 12.07 hrs, Volume= 13,877 cf, Depth= 0.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=1.67"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=1.15 cfs 2,370 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=0.78"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=0.63 cfs 1,793 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=1.20"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=6.51 cfs 18,016 cf

Total Runoff Area = 225,205 sf Runoff Volume = 22,178 cf Average Runoff Depth = 1.18"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

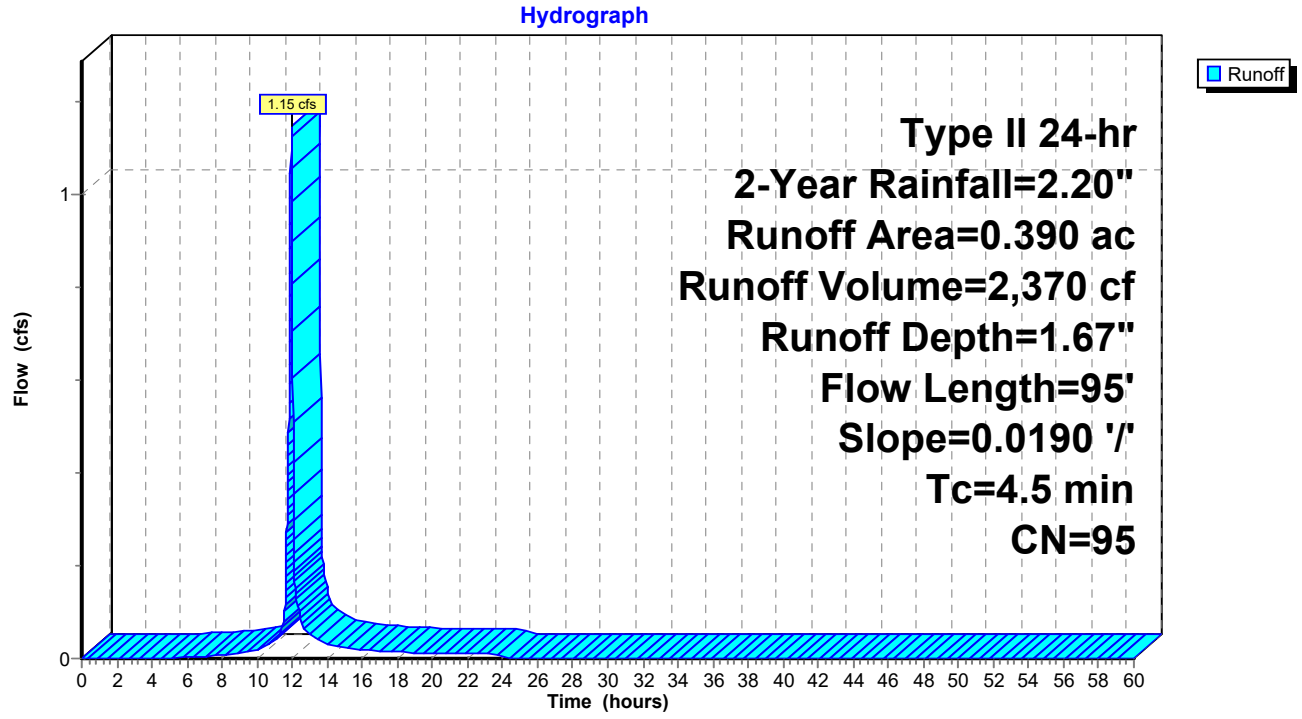
Runoff = 1.15 cfs @ 11.95 hrs, Volume= 2,370 cf, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.20"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

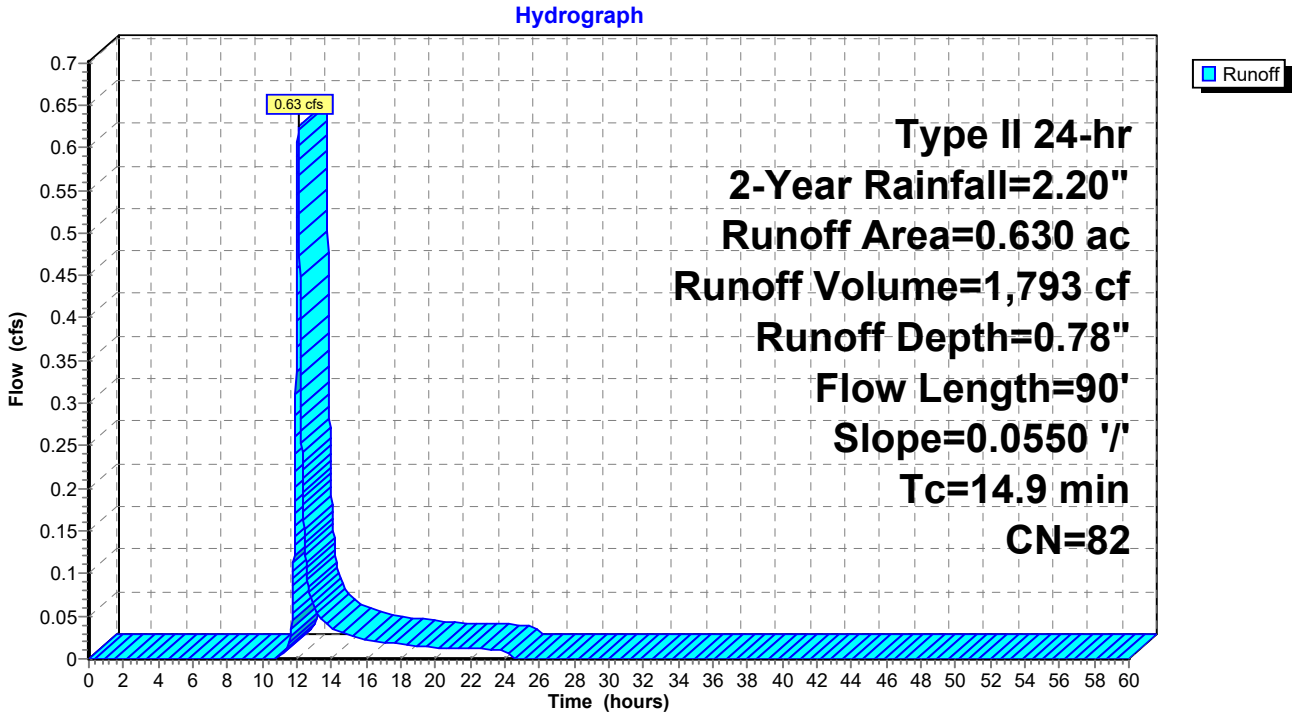
Runoff = 0.63 cfs @ 12.08 hrs, Volume= 1,793 cf, Depth= 0.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.20"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

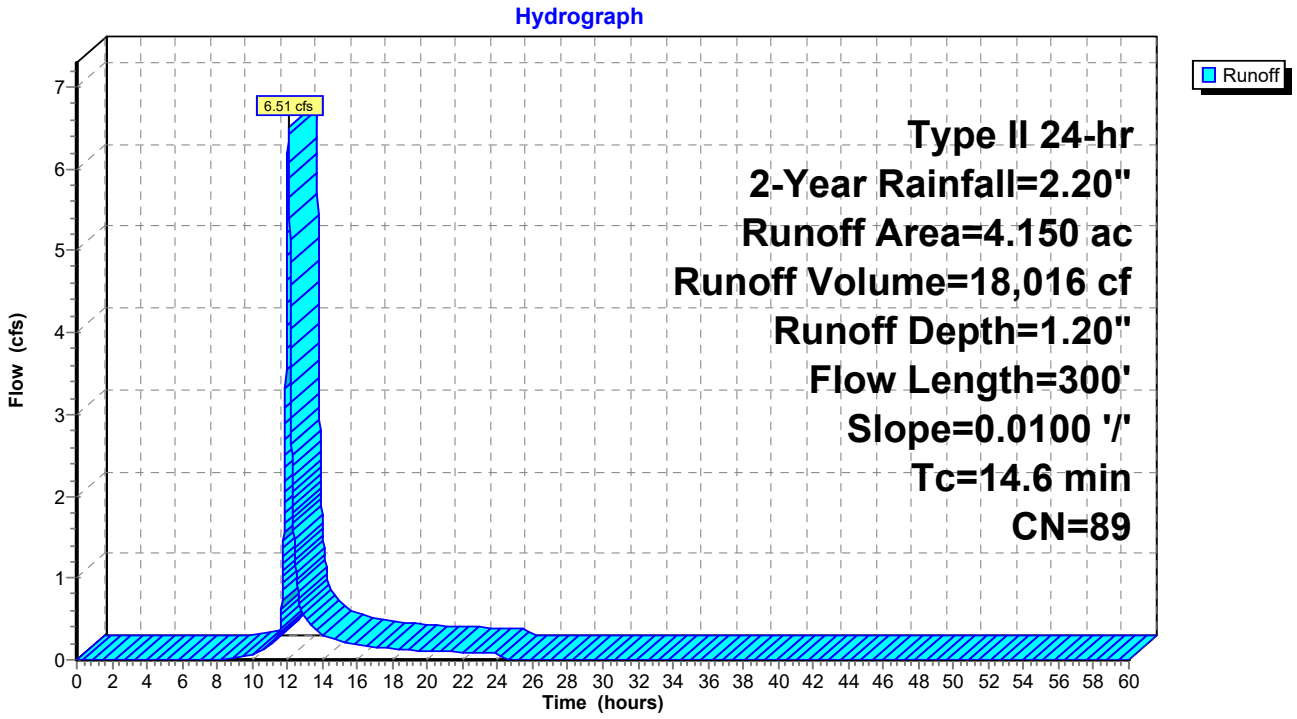
Runoff = 6.51 cfs @ 12.07 hrs, Volume= 18,016 cf, Depth= 1.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.20"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=2.15"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=1.45 cfs 3,040 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=1.14"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=0.93 cfs 2,606 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=1.62"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=8.80 cfs 24,436 cf

Total Runoff Area = 225,205 sf Runoff Volume = 30,082 cf Average Runoff Depth = 1.60"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

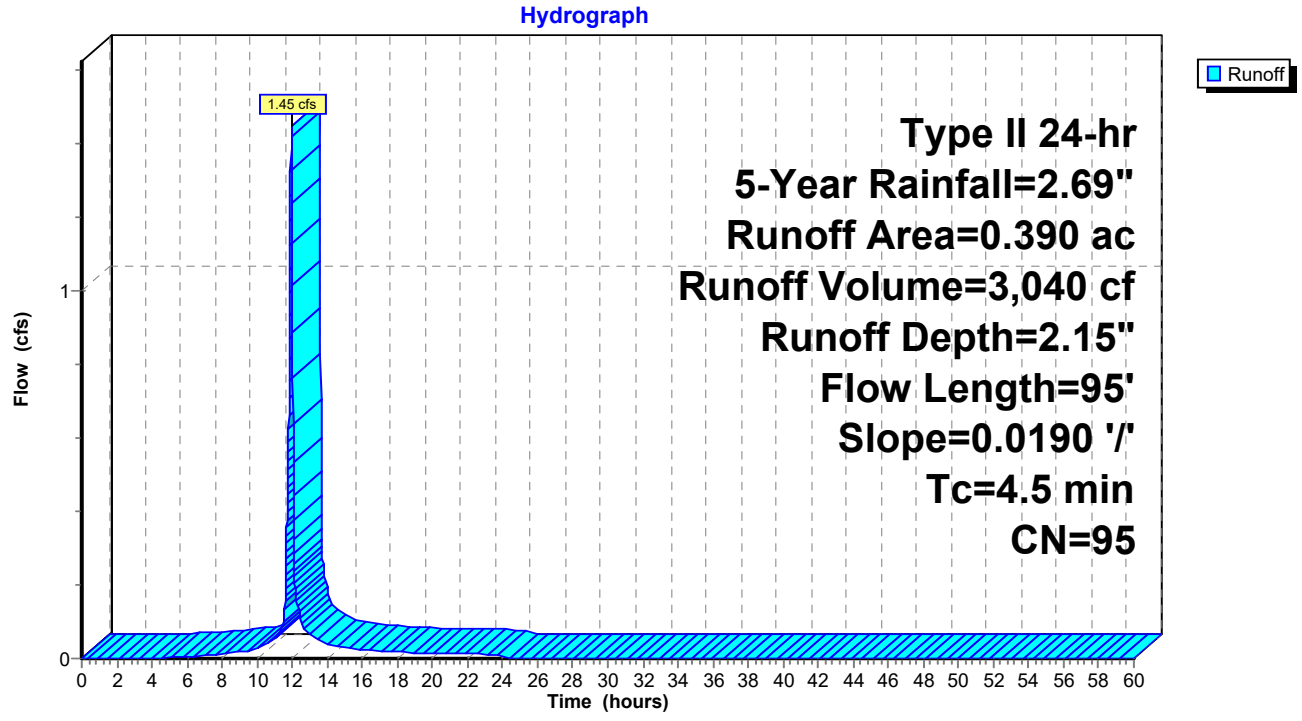
Runoff = 1.45 cfs @ 11.95 hrs, Volume= 3,040 cf, Depth= 2.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=2.69"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

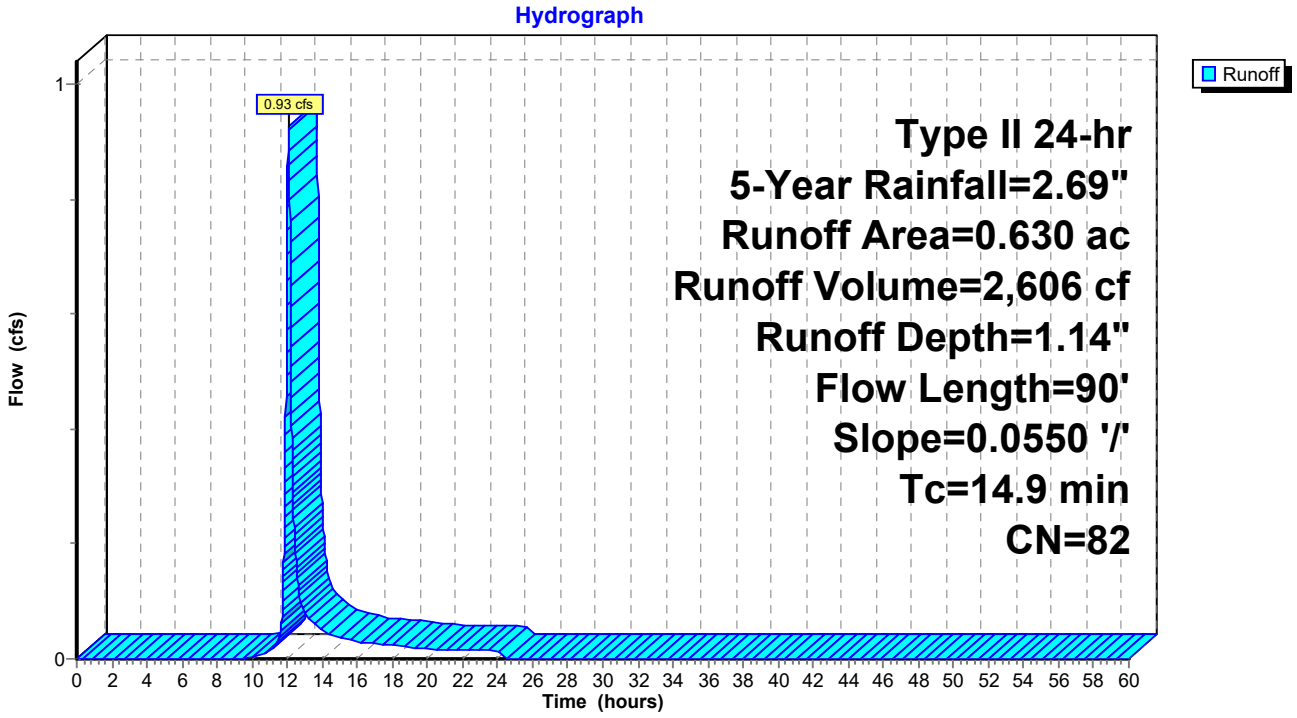
Runoff = 0.93 cfs @ 12.07 hrs, Volume= 2,606 cf, Depth= 1.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=2.69"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

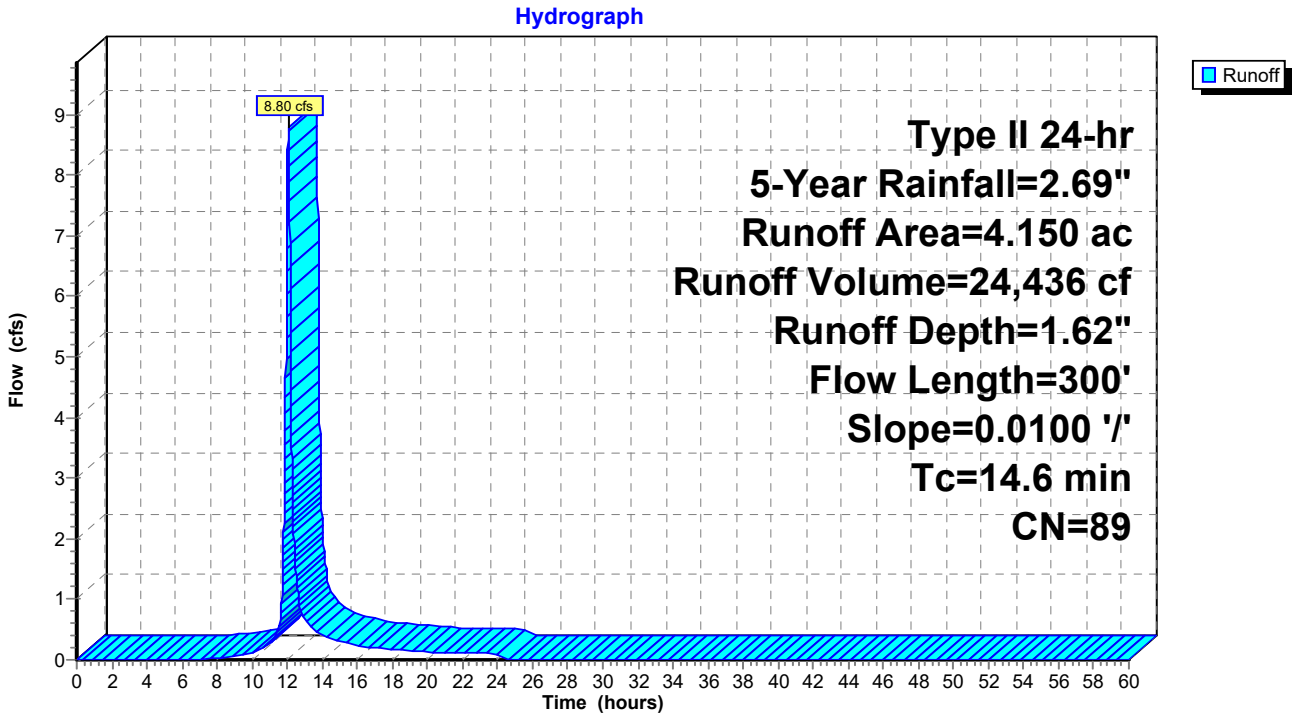
Runoff = 8.80 cfs @ 12.06 hrs, Volume= 24,436 cf, Depth= 1.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=2.69"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=2.59"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=1.72 cfs 3,661 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=1.49"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=1.22 cfs 3,408 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=2.03"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=10.93 cfs 30,533 cf

Total Runoff Area = 225,205 sf Runoff Volume = 37,602 cf Average Runoff Depth = 2.00"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

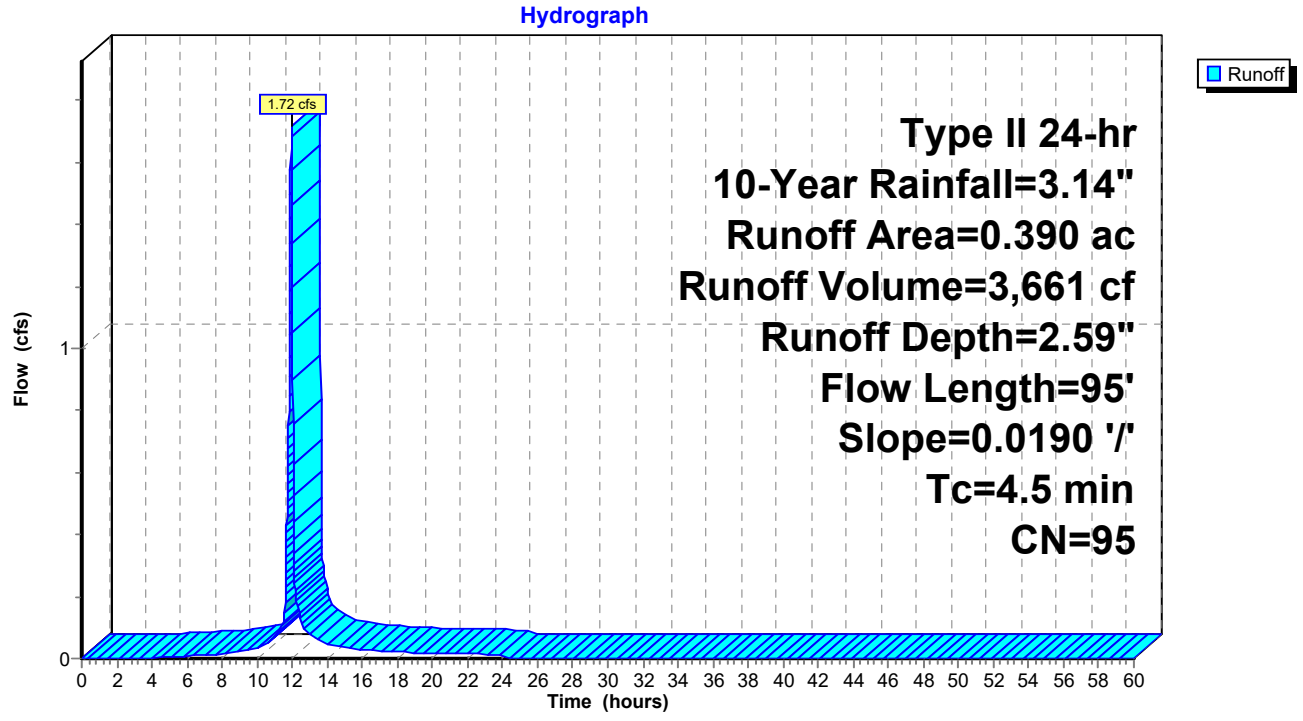
Runoff = 1.72 cfs @ 11.95 hrs, Volume= 3,661 cf, Depth= 2.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

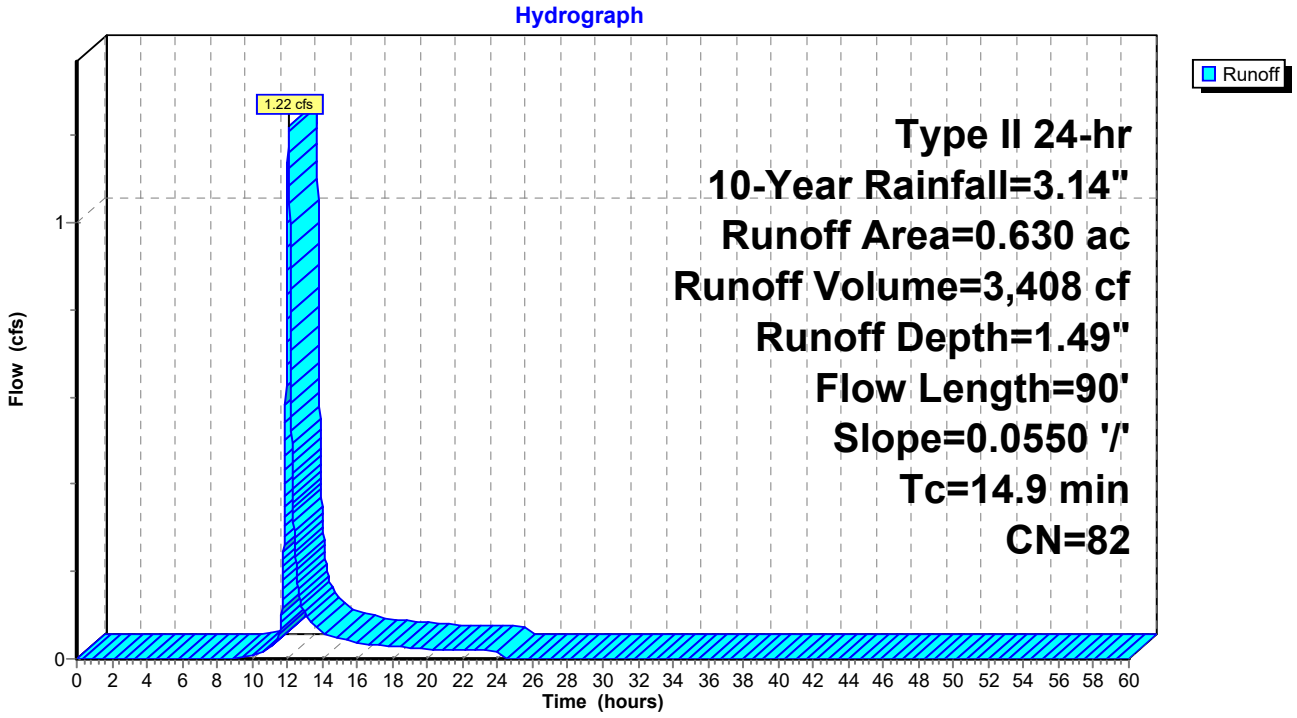
Runoff = 1.22 cfs @ 12.07 hrs, Volume= 3,408 cf, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

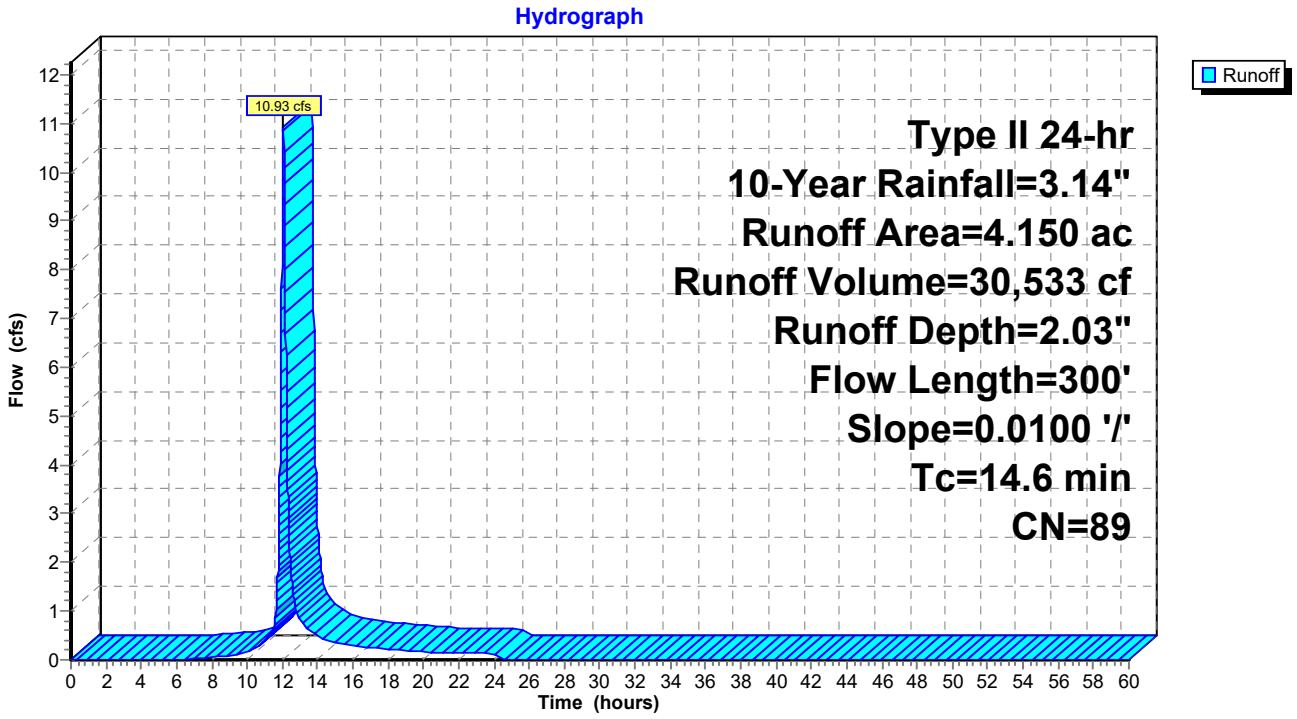
Runoff = 10.93 cfs @ 12.06 hrs, Volume= 30,533 cf, Depth= 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=3.27"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=2.15 cfs 4,634 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=2.07"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=1.70 cfs 4,727 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=2.67"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=14.28 cfs 40,270 cf

Total Runoff Area = 225,205 sf Runoff Volume = 49,632 cf Average Runoff Depth = 2.64"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

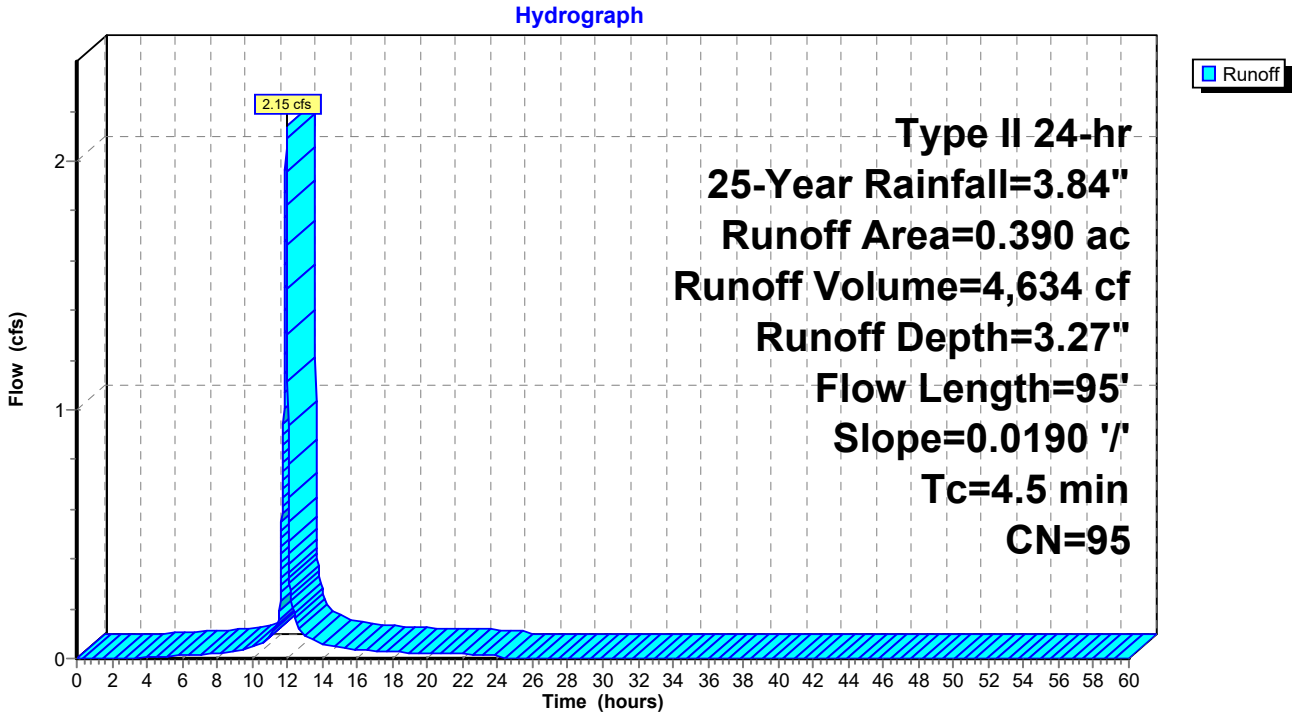
Runoff = 2.15 cfs @ 11.95 hrs, Volume= 4,634 cf, Depth= 3.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

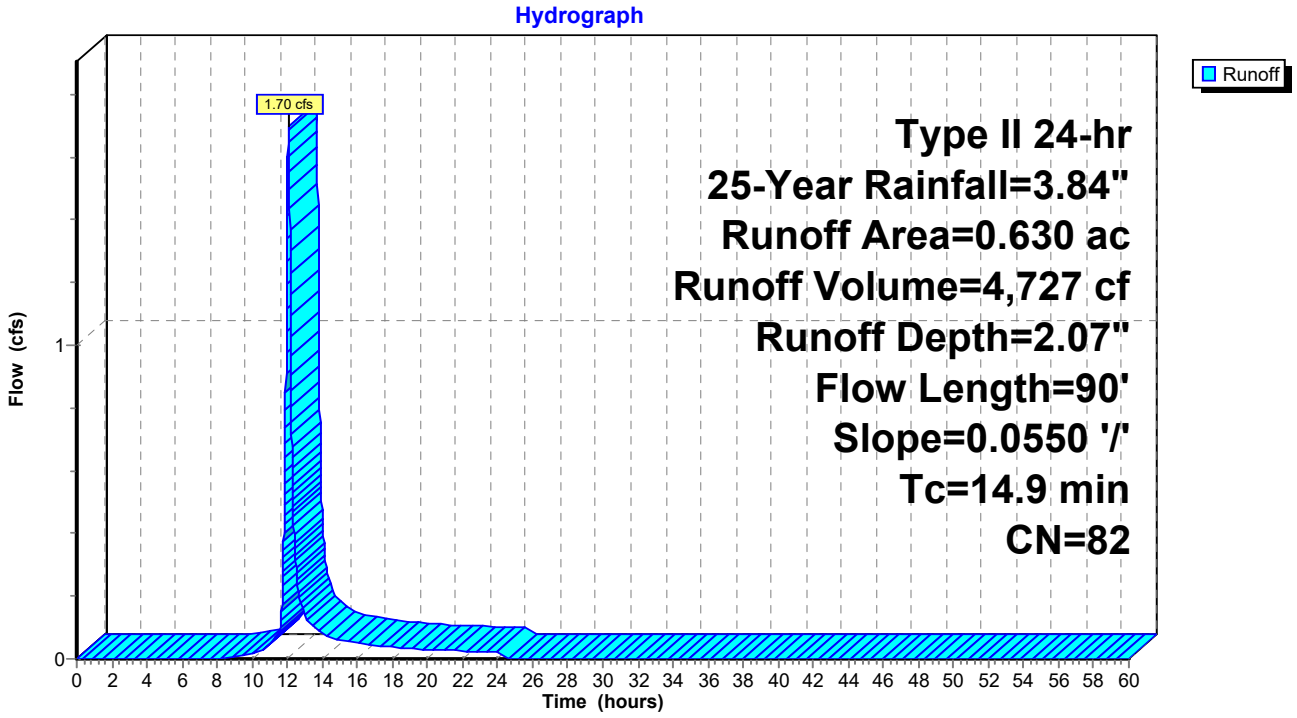
Runoff = 1.70 cfs @ 12.07 hrs, Volume= 4,727 cf, Depth= 2.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

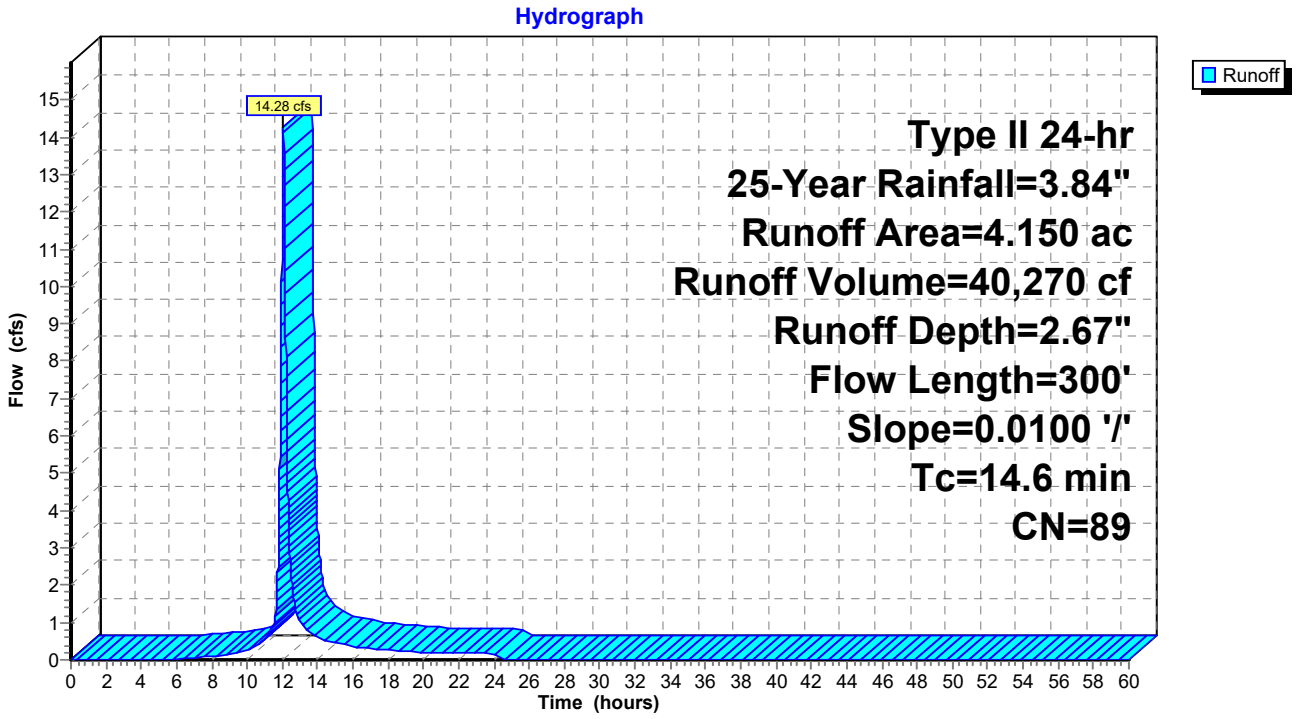
Runoff = 14.28 cfs @ 12.06 hrs, Volume= 40,270 cf, Depth= 2.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=3.90"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=2.53 cfs 5,528 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=2.62"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=2.14 cfs 5,988 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=3.28"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=17.35 cfs 49,354 cf

Total Runoff Area = 225,205 sf Runoff Volume = 60,871 cf Average Runoff Depth = 3.24"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

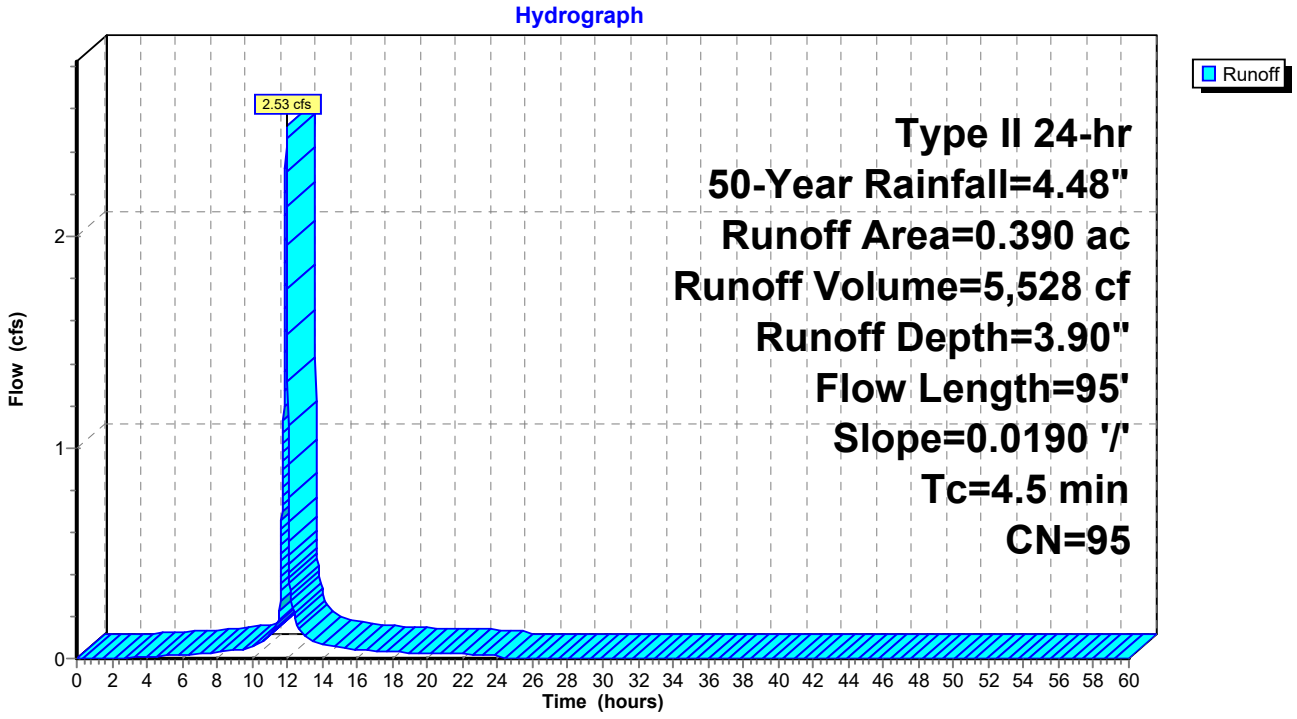
Runoff = 2.53 cfs @ 11.95 hrs, Volume= 5,528 cf, Depth= 3.90"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=4.48"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

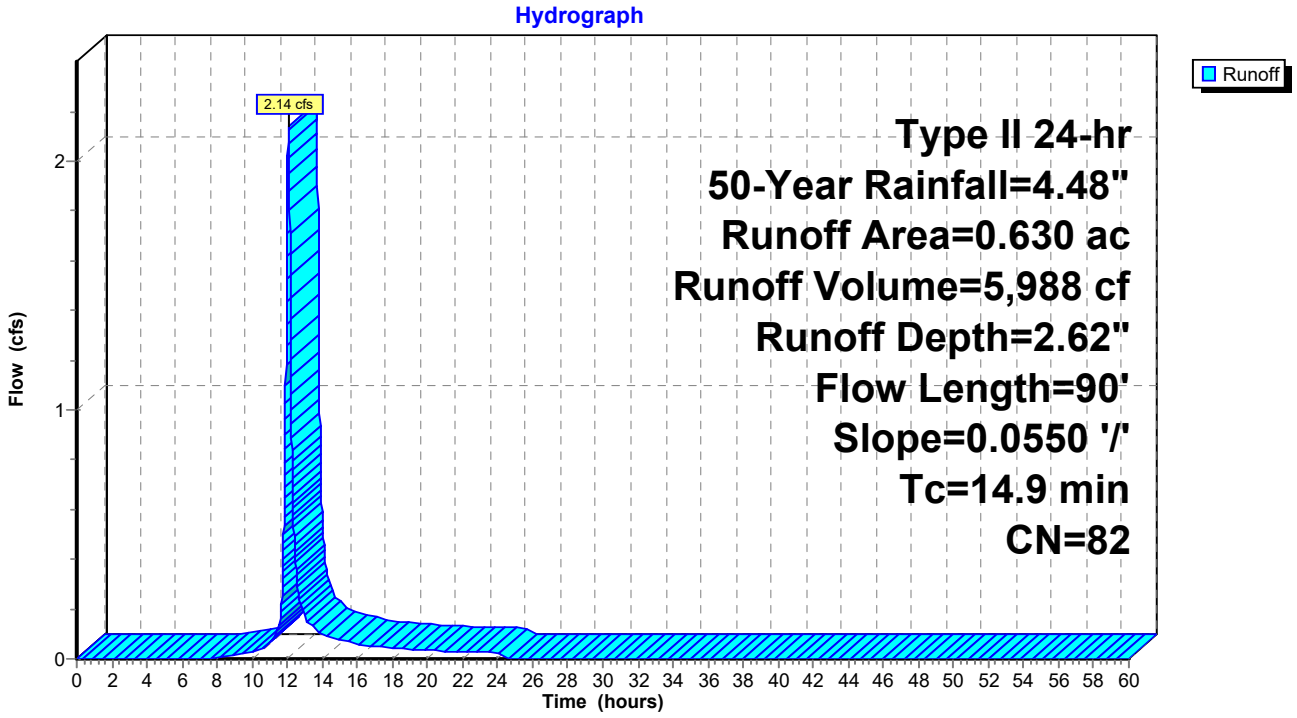
Runoff = 2.14 cfs @ 12.07 hrs, Volume= 5,988 cf, Depth= 2.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=4.48"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

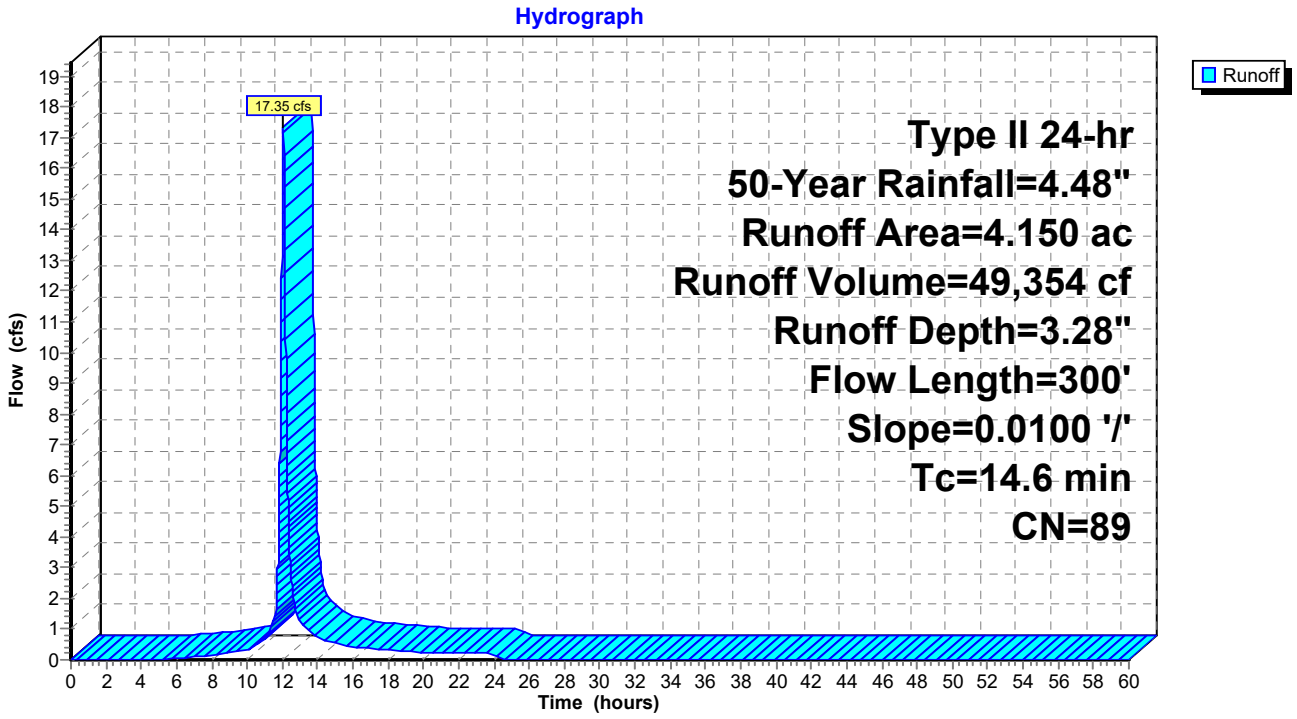
Runoff = 17.35 cfs @ 12.06 hrs, Volume= 49,354 cf, Depth= 3.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=4.48"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=4.65"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=2.98 cfs 6,579 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=3.29"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=2.68 cfs 7,514 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=3.99"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=20.94 cfs 60,145 cf

Total Runoff Area = 225,205 sf Runoff Volume = 74,238 cf Average Runoff Depth = 3.96"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

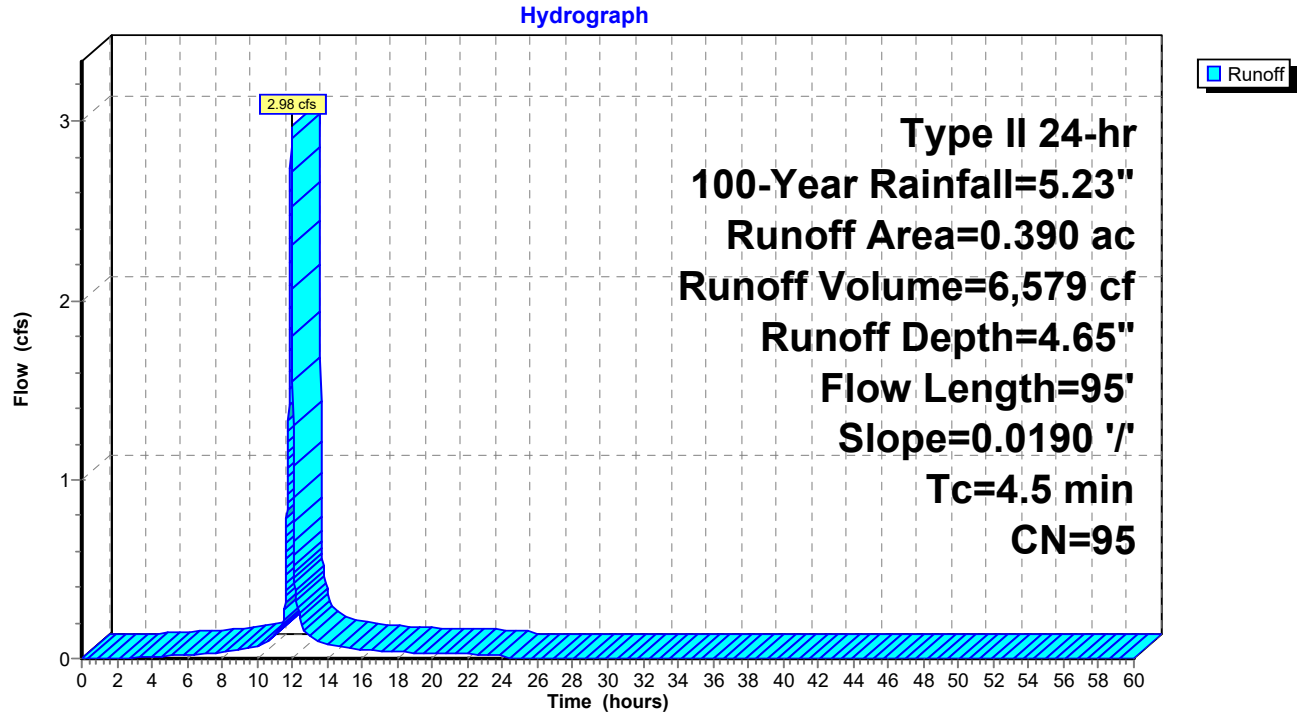
Runoff = 2.98 cfs @ 11.95 hrs, Volume= 6,579 cf, Depth= 4.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

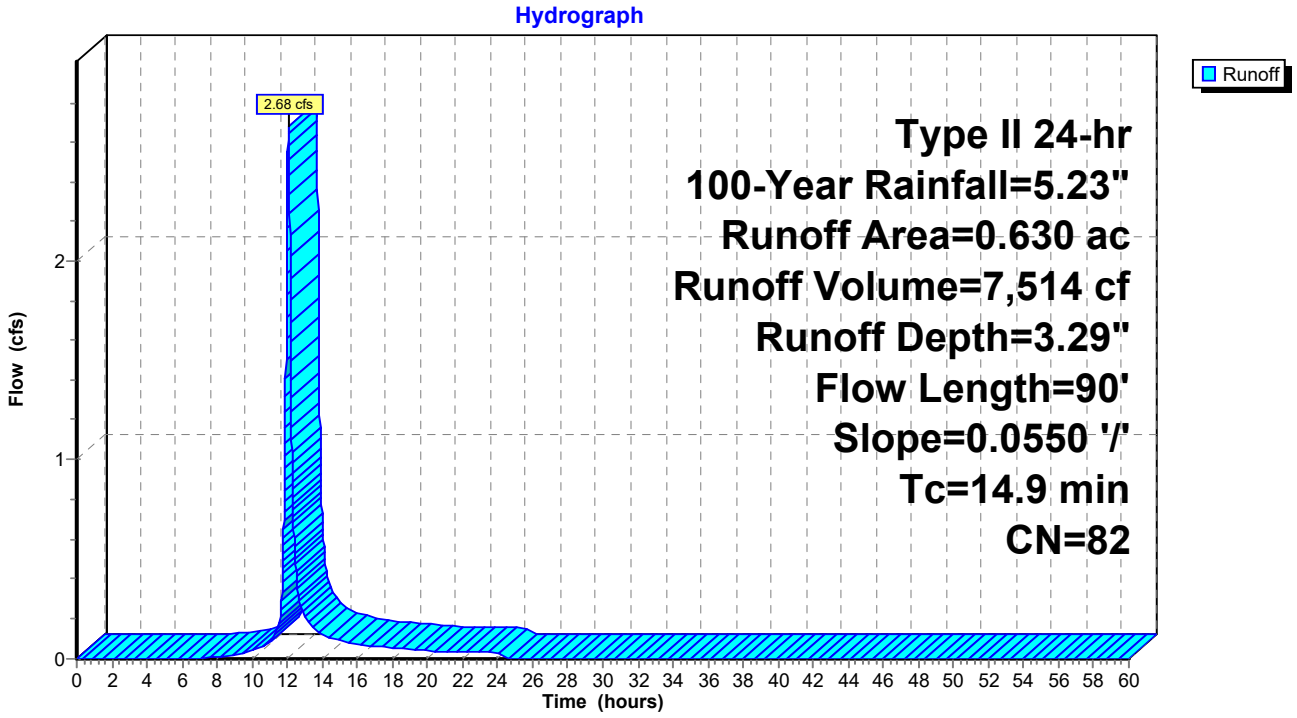
Runoff = 2.68 cfs @ 12.07 hrs, Volume= 7,514 cf, Depth= 3.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

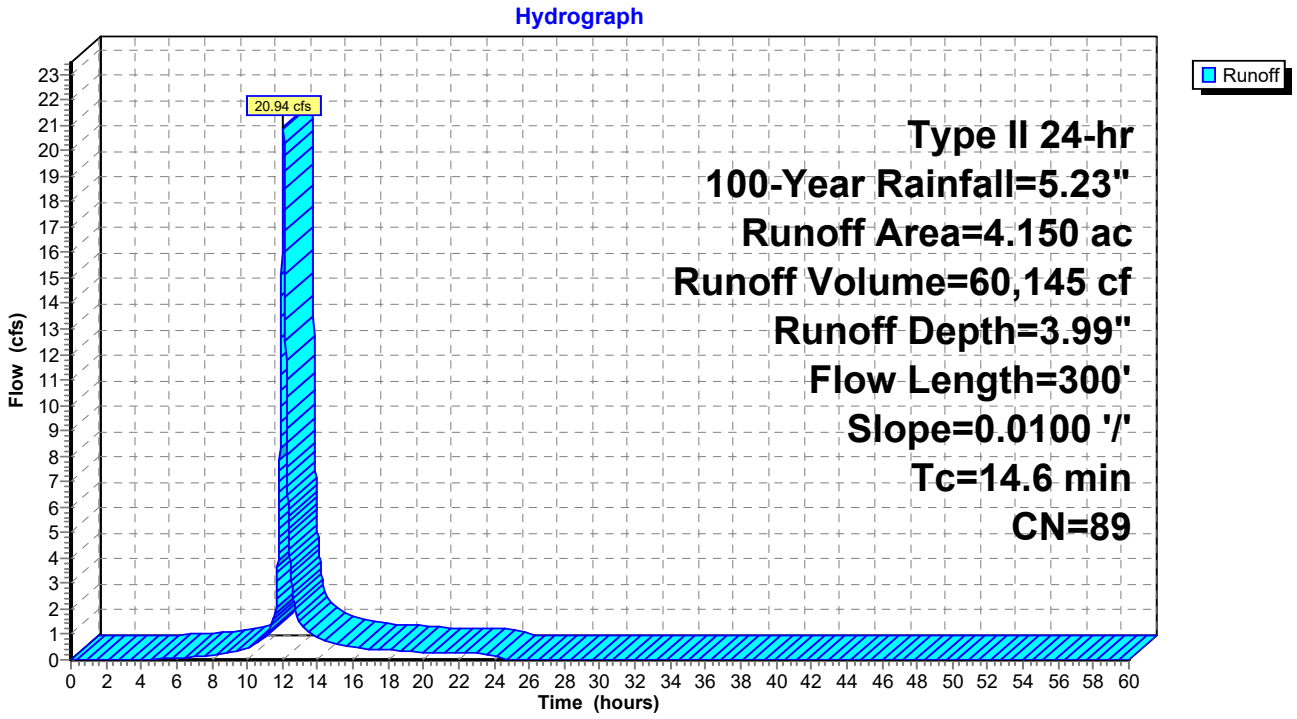
Runoff = 20.94 cfs @ 12.06 hrs, Volume= 60,145 cf, Depth= 3.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

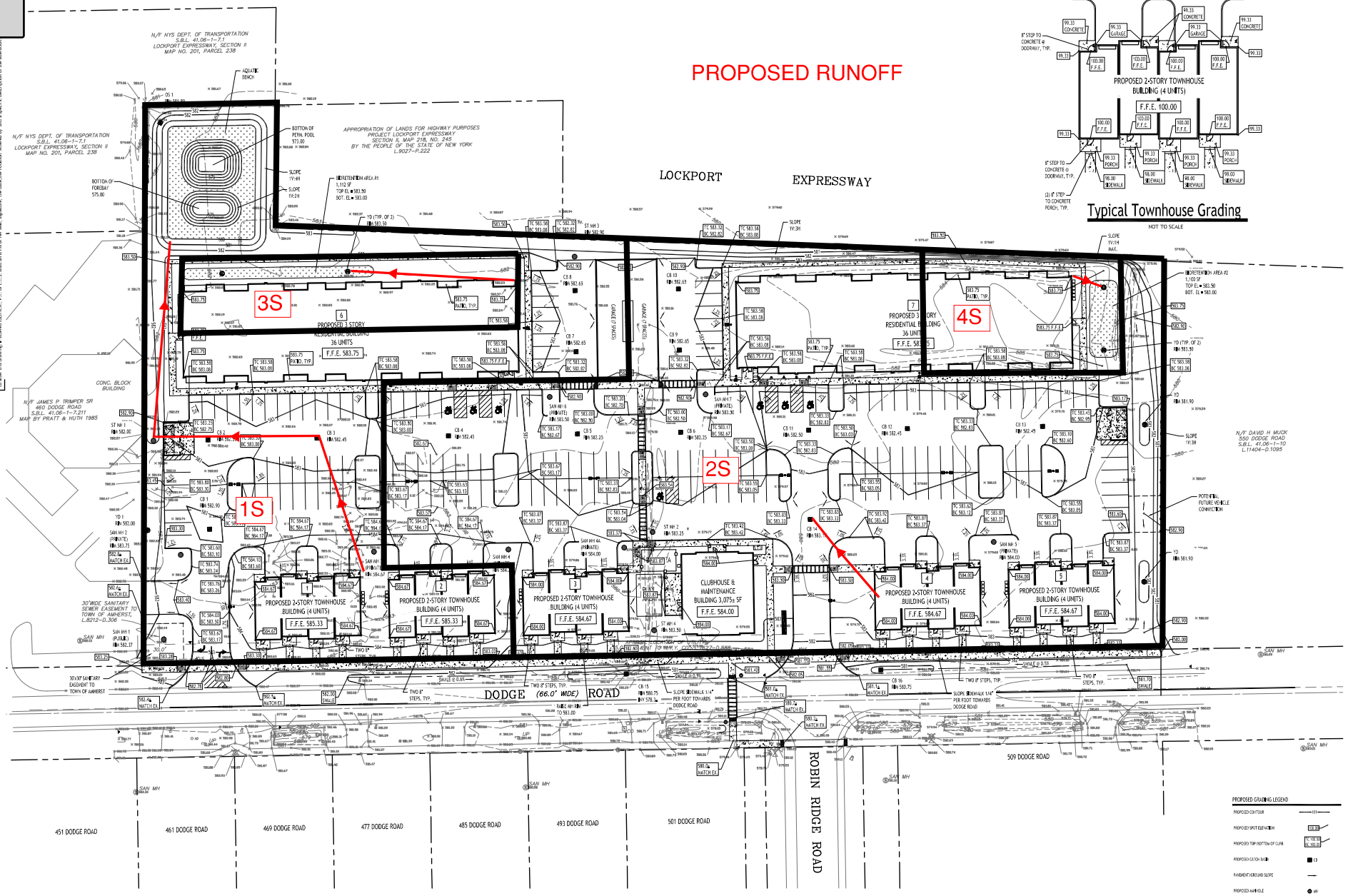
Proposed Runoff

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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Grading Plan
SCALE: 1"=30'

Typical Townhouse Grading
NOT TO SCALE

CARMINAWOOD DESIGN
80 Stiles City Row, Suite 100
Buffalo, NY 14202
Phone: (716) 842-3165

Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:			
No.	Description	Date	
1	Rev. per Town comments	5/23/23	
2	Rev. per Town & ECDPW comments	7/21/23	
3	Rev. per Town comments	8/10/23	
4	Rev. per Town comments	12/8/23	
5	Rev. per Town comments	1/27/25	

DRAWING NAME:
Grading Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
C-200

Project No: 22.296

Events for Pond 1P: Wet Pond

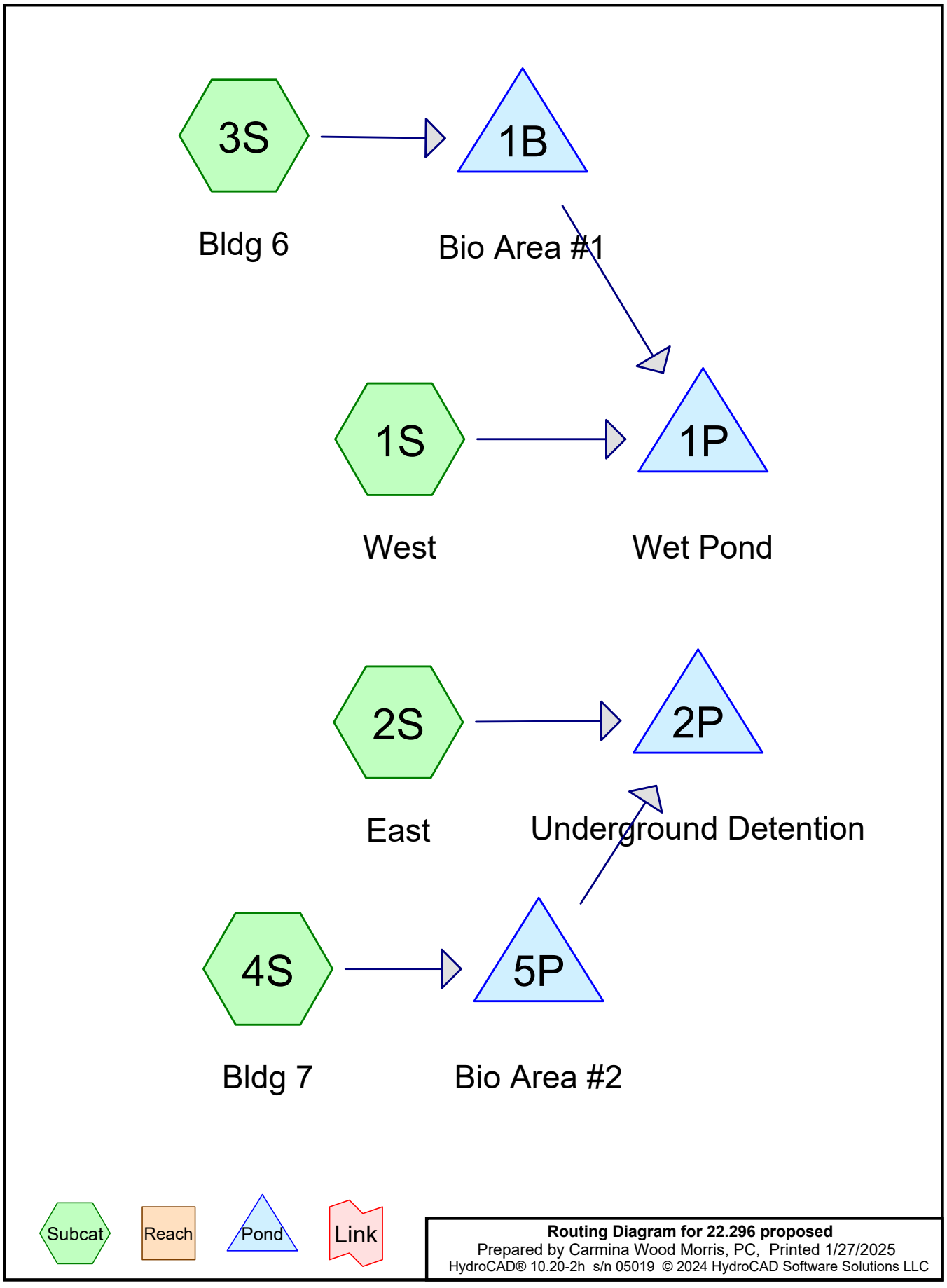
Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	4.25	1.01	580.39	2,344
2-Year	5.31	1.17	580.52	3,145
5-Year	6.89	1.40	580.72	4,403
10-Year	8.34	1.61	580.92	5,751
25-Year	10.95	1.89	581.24	7,974
50-Year	13.12	2.12	581.54	10,111
100-Year	**15.61**	**2.35**	**581.88**	**12,683**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Events for Pond 2P: Underground Detention

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	3.85	1.64	579.54	3,629
2-Year	4.93	2.08	579.70	4,566
5-Year	6.58	2.53	579.96	6,084
10-Year	8.00	2.84	580.24	7,653
25-Year	10.15	3.45	580.69	10,042
50-Year	12.10	4.00	581.16	12,266
100-Year	**14.36**	**4.75**	**581.93**	**14,839**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	Type II 24-hr		Default	24.00	1	1.87	2
2	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
3	25-Year	Type II 24-hr		Default	24.00	1	3.84	2
4	100-Year	Type II 24-hr		Default	24.00	1	5.23	2

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
73,616	80	>75% Grass cover, Good, HSG D (1S, 2S, 3S, 4S)
97,139	98	Paved parking, HSG D (1S, 2S, 3S, 4S)
54,450	98	Roofs, HSG D (1S, 2S, 3S, 4S)
225,205	**92**	**TOTAL AREA**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
225,205	HSG D	1S, 2S, 3S, 4S
0	Other	
225,205		**TOTAL AREA**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	73,616	0	73,616	>75% Grass cover, Good	
0	0	0	97,139	0	97,139	Paved parking	
0	0	0	54,450	0	54,450	Roofs	
0	**0**	**0**	**225,205**	**0**	**225,205**	**TOTAL AREA**	

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	1S	0.00	0.00	335.0	0.0030	0.013	0.0	12.0	0.0
2	1B	580.50	580.28	22.0	0.0100	0.013	0.0	6.0	0.0
3	1P	579.50	579.40	20.0	0.0050	0.013	0.0	8.0	0.0
4	2P	578.67	578.30	100.0	0.0037	0.013	0.0	12.0	0.0
5	5P	580.50	579.95	70.0	0.0079	0.013	0.0	8.0	0.0

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=2.000 ac 65.00% Impervious Runoff Depth=1.12"
Flow Length=440' Tc=3.9 min CN=92 Runoff=4.25 cfs 8,140 cf

Subcatchment2S: East Runoff Area=2.620 ac 69.85% Impervious Runoff Depth=1.20"
Flow Length=75' Tc=16.6 min CN=93 Runoff=3.84 cfs 11,374 cf

Subcatchment3S: Bldg 6 Runoff Area=0.300 ac 66.67% Impervious Runoff Depth=1.12"
Flow Length=100' Slope=0.0050 '/' Tc=19.3 min CN=92 Runoff=0.38 cfs 1,221 cf

Subcatchment4S: Bldg 7 Runoff Area=0.250 ac 60.00% Impervious Runoff Depth=1.05"
Flow Length=20' Slope=0.0060 '/' Tc=5.0 min CN=91 Runoff=0.48 cfs 954 cf

Pond 1B: Bio Area #1 Peak Elev=583.55' Storage=501 cf Inflow=0.38 cfs 1,221 cf
Outflow=0.17 cfs 1,221 cf

Pond 1P: Wet Pond Peak Elev=580.39' Storage=2,344 cf Inflow=4.25 cfs 9,361 cf
8.0" Round Culvert n=0.013 L=20.0' S=0.0050 '/' Outflow=1.01 cfs 9,361 cf

Pond 2P: Underground Detention Peak Elev=579.54' Storage=3,629 cf Inflow=3.85 cfs 12,328 cf
12.0" Round Culvert n=0.013 L=100.0' S=0.0037 '/' Outflow=1.64 cfs 12,293 cf

Pond 5P: Bio Area #2 Peak Elev=583.51' Storage=510 cf Inflow=0.48 cfs 954 cf
Outflow=0.03 cfs 954 cf

Total Runoff Area = 225,205 sf Runoff Volume = 21,689 cf Average Runoff Depth = 1.16"
32.69% Pervious = 73,616 sf 67.31% Impervious = 151,589 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

[47] Hint: Peak is 218% of capacity of segment #2

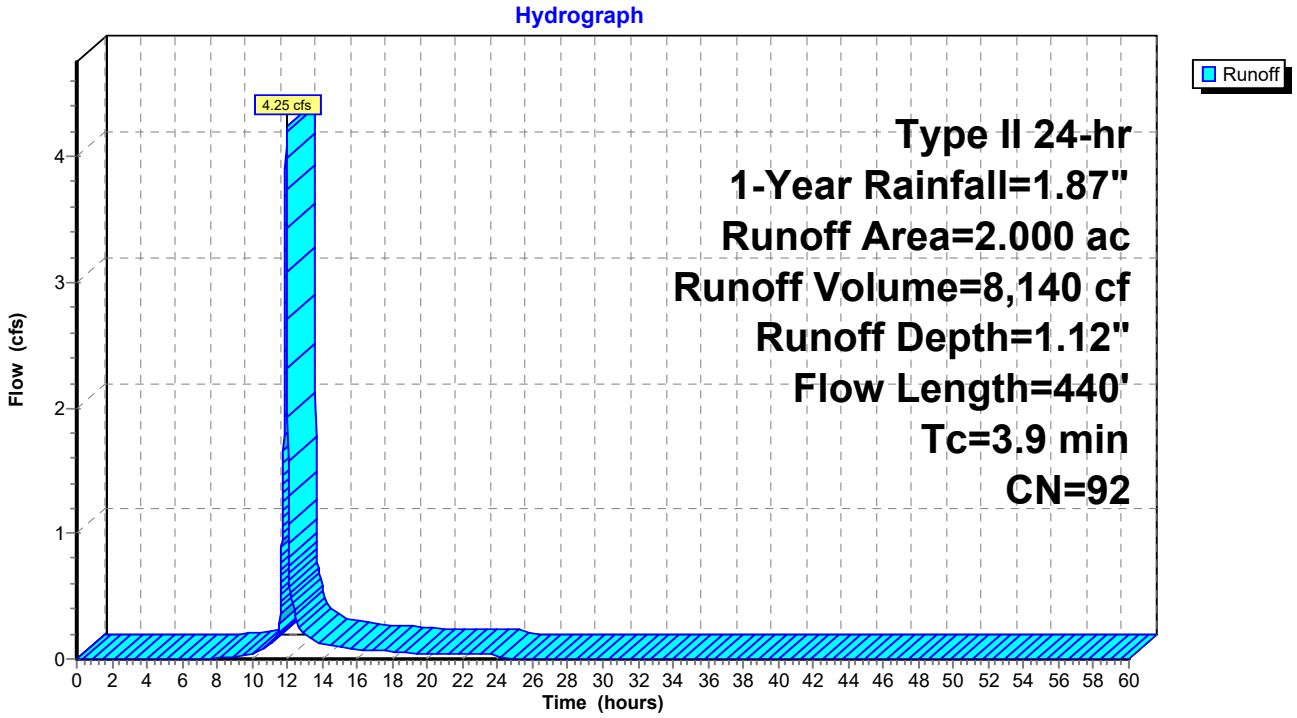
Runoff = 4.25 cfs @ 11.95 hrs, Volume= 8,140 cf, Depth= 1.12"
Routed to Pond 1P : Wet Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.470	98	Roofs, HSG D
0.830	98	Paved parking, HSG D
0.700	80	>75% Grass cover, Good, HSG D
2.000	92	Weighted Average
0.700		35.00% Pervious Area
1.300		65.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	105	0.0120	1.00		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
2.2	335	0.0030	2.48	1.95	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.9	440	Total			

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

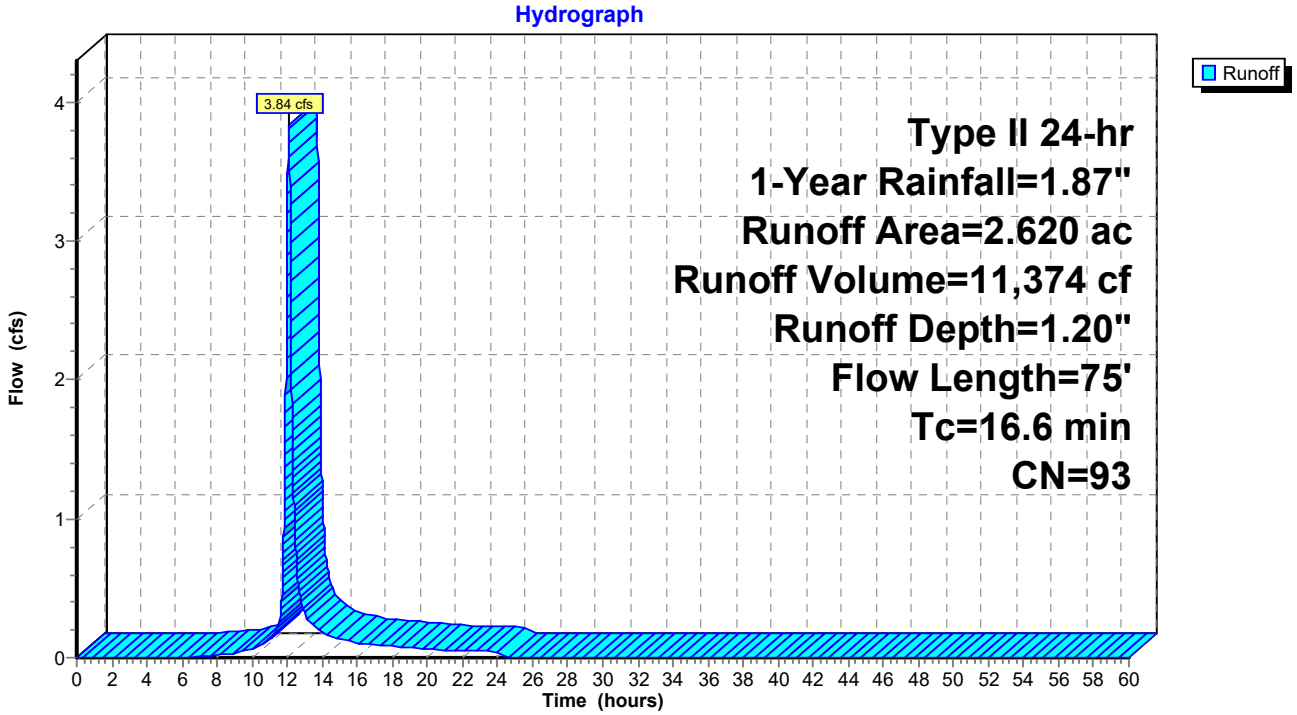
Runoff = 3.84 cfs @ 12.08 hrs, Volume= 11,374 cf, Depth= 1.20"
Routed to Pond 2P : Underground Detention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.550	98	Roofs, HSG D
1.280	98	Paved parking, HSG D
0.790	80	>75% Grass cover, Good, HSG D
2.620	93	Weighted Average
0.790		30.15% Pervious Area
1.830		69.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	50	0.0020	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
0.6	25	0.0100	0.70		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
16.6	75	Total			

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: Bldg 6

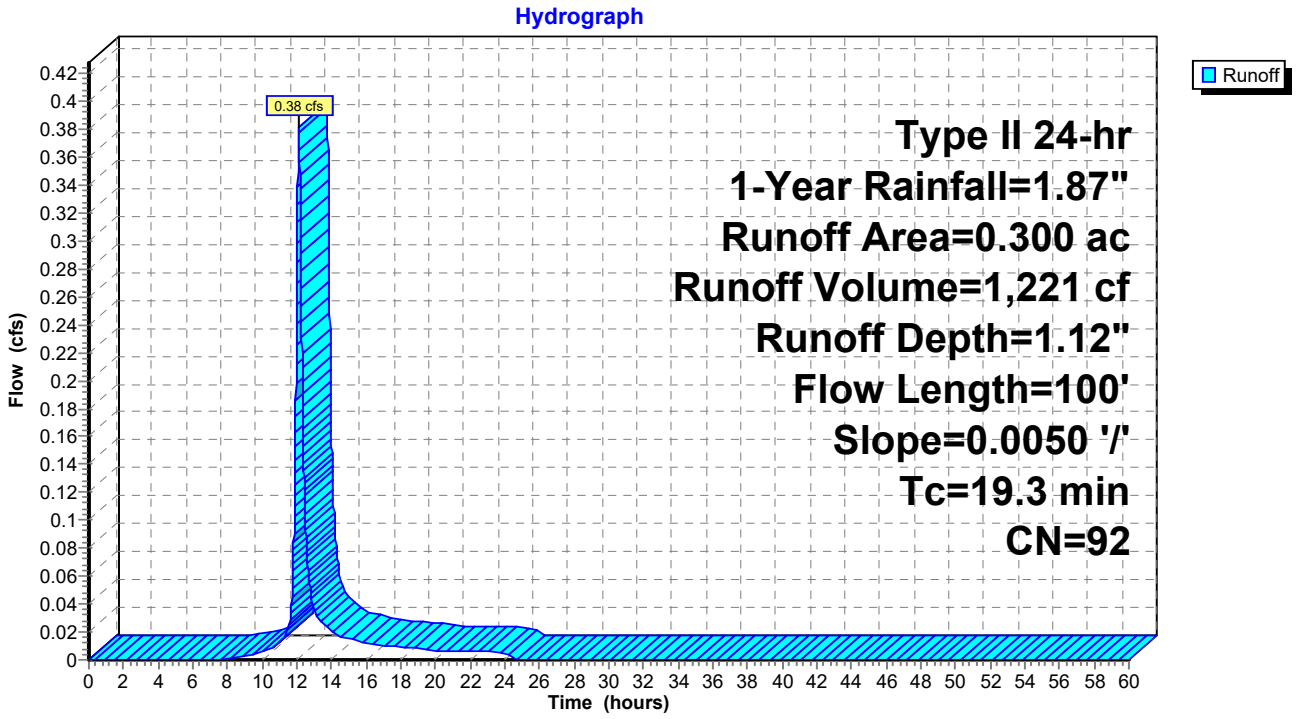
Runoff = 0.38 cfs @ 12.12 hrs, Volume= 1,221 cf, Depth= 1.12"
Routed to Pond 1B : Bio Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.130	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.070	98	Paved parking, HSG D
0.300	92	Weighted Average
0.100		33.33% Pervious Area
0.200		66.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.3	100	0.0050	0.09		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 3S: Bldg 6



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 4S: Bldg 7

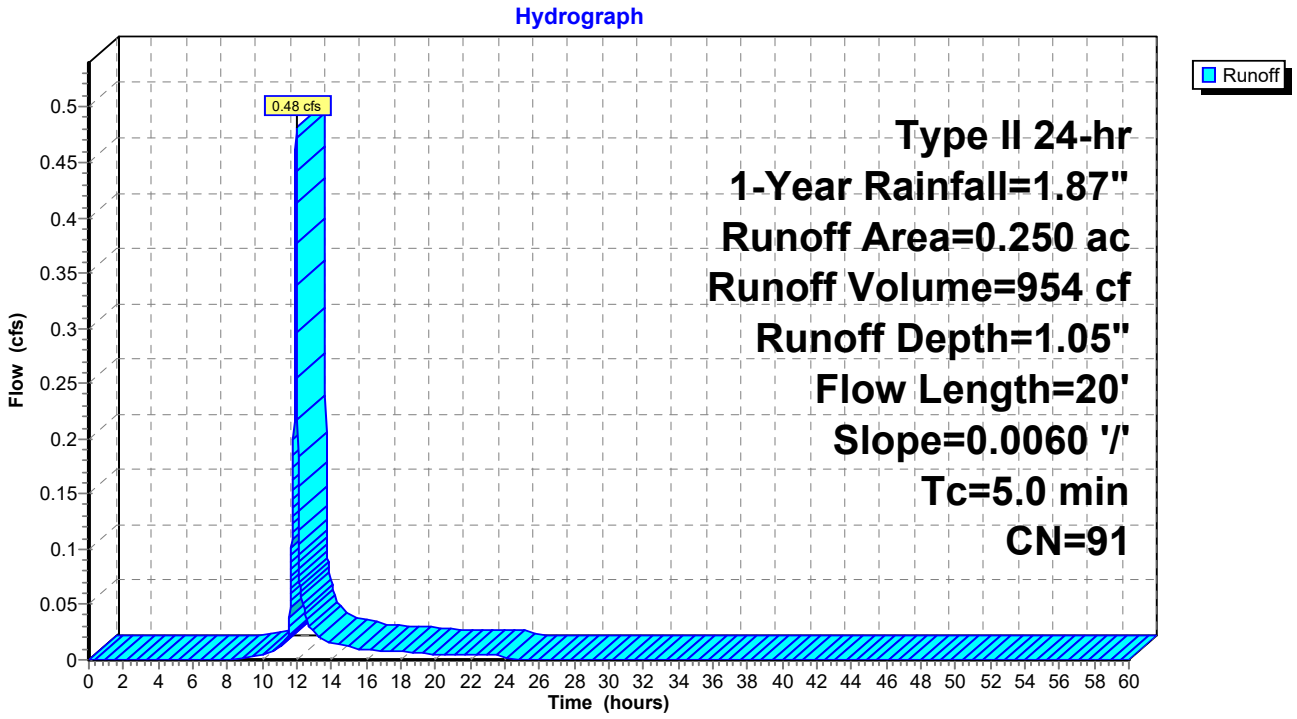
Runoff = 0.48 cfs @ 11.96 hrs, Volume= 954 cf, Depth= 1.05"
Routed to Pond 5P : Bio Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.100	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.050	98	Paved parking, HSG D
0.250	91	Weighted Average
0.100		40.00% Pervious Area
0.150		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	20	0.0060	0.07		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 4S: Bldg 7



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1B: Bio Area #1

Inflow Area = 13,068 sf, 66.67% Impervious, Inflow Depth = 1.12" for 1-Year event
Inflow = 0.38 cfs @ 12.12 hrs, Volume= 1,221 cf
Outflow = 0.17 cfs @ 12.34 hrs, Volume= 1,221 cf, Atten= 54%, Lag= 13.3 min
Primary = 0.17 cfs @ 12.34 hrs, Volume= 1,221 cf
Routed to Pond 1P : Wet Pond

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.55' @ 12.34 hrs Surf.Area= 1,196 sf Storage= 501 cf

Plug-Flow detention time= 494.4 min calculated for 1,221 cf (100% of inflow)
Center-of-Mass det. time= 494.3 min (1,322.3 - 827.9)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	767 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

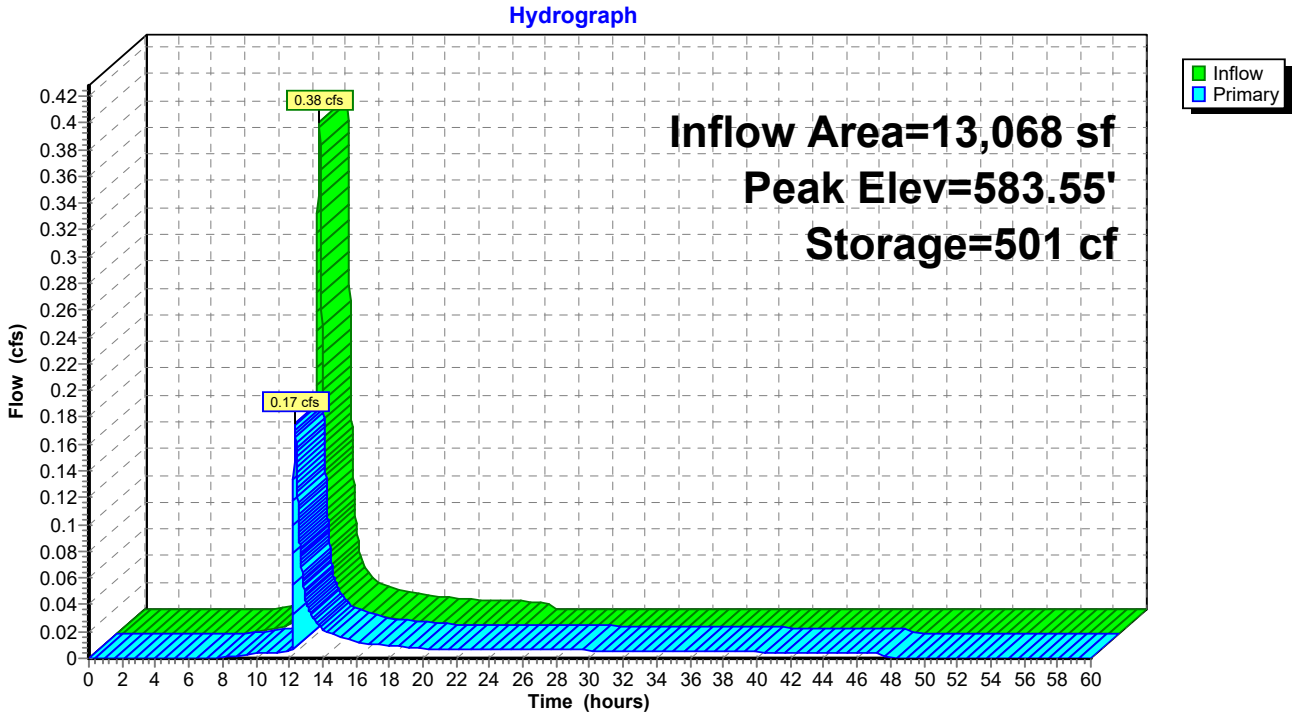
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	645	0	0
583.50	1,112	439	439
583.75	1,510	328	767

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**6.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 580.28' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.17 cfs @ 12.34 hrs HW=583.55' (Free Discharge)
└**1=Culvert** (Passes 0.17 cfs of 1.46 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 0.17 cfs @ 0.75 fps)
└**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1B: Bio Area #1



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1P: Wet Pond

[44] Hint: Outlet device #1 is below defined storage
[79] Warning: Submerged Pond 1B Primary device # 1 OUTLET by 0.11'

Inflow Area = 100,188 sf, 65.22% Impervious, Inflow Depth = 1.12" for 1-Year event
Inflow = 4.25 cfs @ 11.95 hrs, Volume= 9,361 cf
Outflow = 1.01 cfs @ 12.06 hrs, Volume= 9,361 cf, Atten= 76%, Lag= 7.0 min
Primary = 1.01 cfs @ 12.06 hrs, Volume= 9,361 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 580.39' @ 12.06 hrs Surf.Area= 6,191 sf Storage= 2,344 cf

Plug-Flow detention time= 15.3 min calculated for 9,361 cf (100% of inflow)
Center-of-Mass det. time= 15.3 min (895.3 - 880.0)

Volume	Invert	Avail.Storage	Storage Description
#1	580.00'	13,600 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

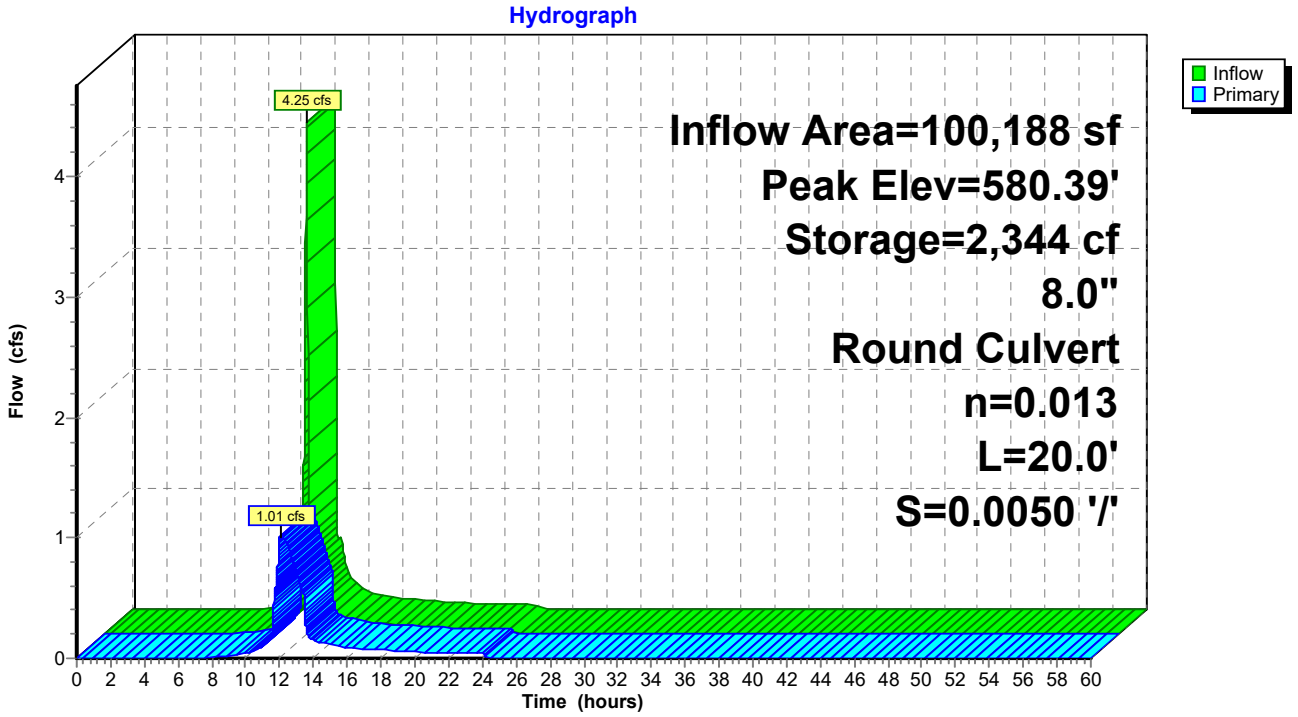
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
580.00	5,800	0	0
581.00	6,800	6,300	6,300
582.00	7,800	7,300	13,600

Device	Routing	Invert	Outlet Devices
#1	Primary	579.50'	**8.0" Round Culvert** L= 20.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 579.50' / 579.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.99 cfs @ 12.06 hrs HW=580.39' (Free Discharge)
↑—**1=Culvert** (Barrel Controls 0.99 cfs @ 2.85 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1P: Wet Pond



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 2P: Underground Detention

Inflow Area = 125,017 sf, 68.99% Impervious, Inflow Depth = 1.18" for 1-Year event
Inflow = 3.85 cfs @ 12.08 hrs, Volume= 12,328 cf
Outflow = 1.64 cfs @ 12.29 hrs, Volume= 12,293 cf, Atten= 57%, Lag= 12.5 min
Primary = 1.64 cfs @ 12.29 hrs, Volume= 12,293 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 579.54' @ 12.29 hrs Surf.Area= 7,226 sf Storage= 3,629 cf

Plug-Flow detention time= 76.0 min calculated for 12,290 cf (100% of inflow)
Center-of-Mass det. time= 70.8 min (944.0 - 873.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	578.67'	6,515 cf	**20.50'W x 352.50'L x 3.50'H Field A** 25,292 cf Overall - 9,004 cf Embedded = 16,287 cf x 40.0% Voids
#2A	579.17'	9,004 cf	**ADS_StormTech SC-740 +Cap** x 196 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 196 Chambers in 4 Rows
		15,519 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	578.67'	**12.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.67' / 578.30' S= 0.0037 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.64 cfs @ 12.29 hrs HW=579.54' (Free Discharge)
↑—**1=Culvert** (Barrel Controls 1.64 cfs @ 3.04 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention - Chamber Wizard Field A

Chamber Model = ADS_StormTechSC-740 +Cap (ADS StormTech®SC-740 with cap length)
Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf
Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

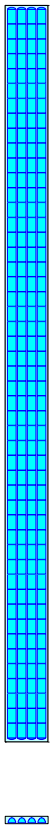
49 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 350.50' Row Length +12.0" End Stone x 2 = 352.50' Base Length
4 Rows x 51.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 20.50' Base Width
6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

196 Chambers x 45.9 cf = 9,004.2 cf Chamber Storage

25,291.6 cf Field - 9,004.2 cf Chambers = 16,287.4 cf Stone x 40.0% Voids = 6,515.0 cf Stone Storage

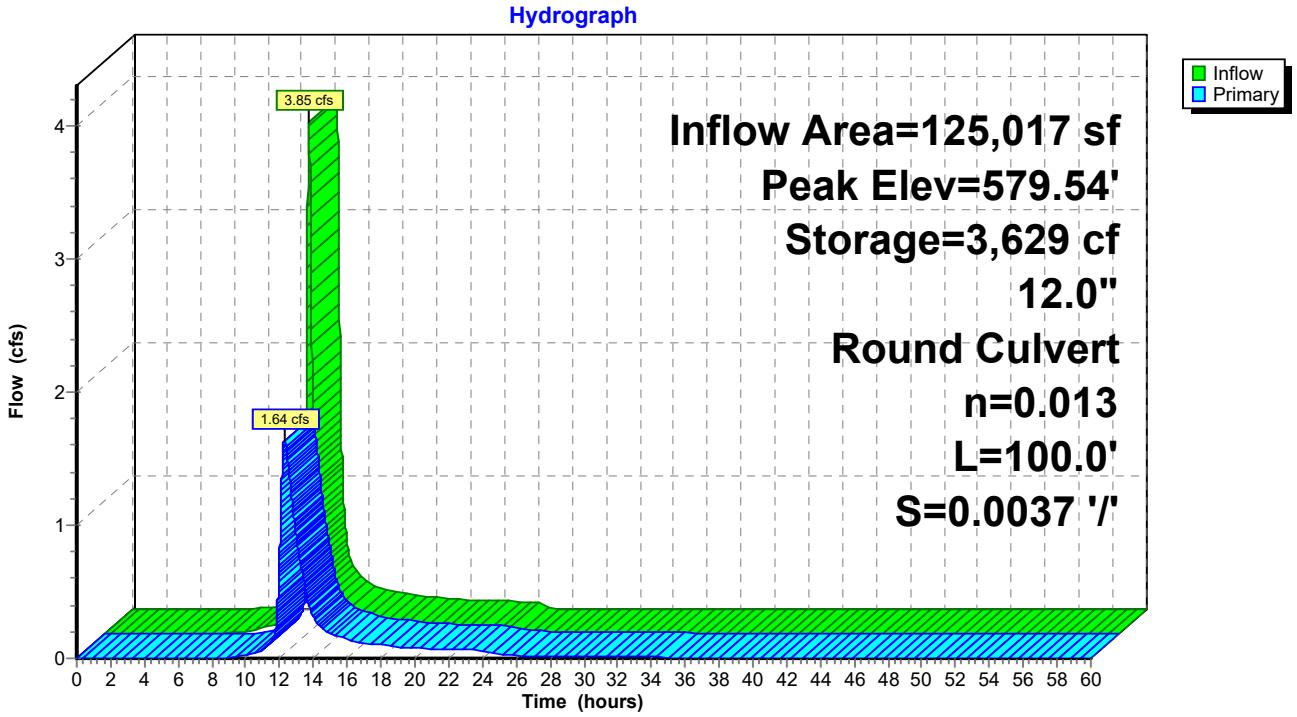
Chamber Storage + Stone Storage = 15,519.2 cf = 0.356 af
Overall Storage Efficiency = 61.4%
Overall System Size = 352.50' x 20.50' x 3.50'

196 Chambers
936.7 cy Field
603.2 cy Stone



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 5P: Bio Area #2

Inflow Area = 10,890 sf, 60.00% Impervious, Inflow Depth = 1.05" for 1-Year event
Inflow = 0.48 cfs @ 11.96 hrs, Volume= 954 cf
Outflow = 0.03 cfs @ 12.66 hrs, Volume= 954 cf, Atten= 94%, Lag= 41.9 min
Primary = 0.03 cfs @ 12.66 hrs, Volume= 954 cf
Routed to Pond 2P : Underground Detention

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.51' @ 12.66 hrs Surf.Area= 1,135 sf Storage= 510 cf

Plug-Flow detention time= 693.3 min calculated for 954 cf (100% of inflow)
Center-of-Mass det. time= 693.2 min (1,513.4 - 820.2)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

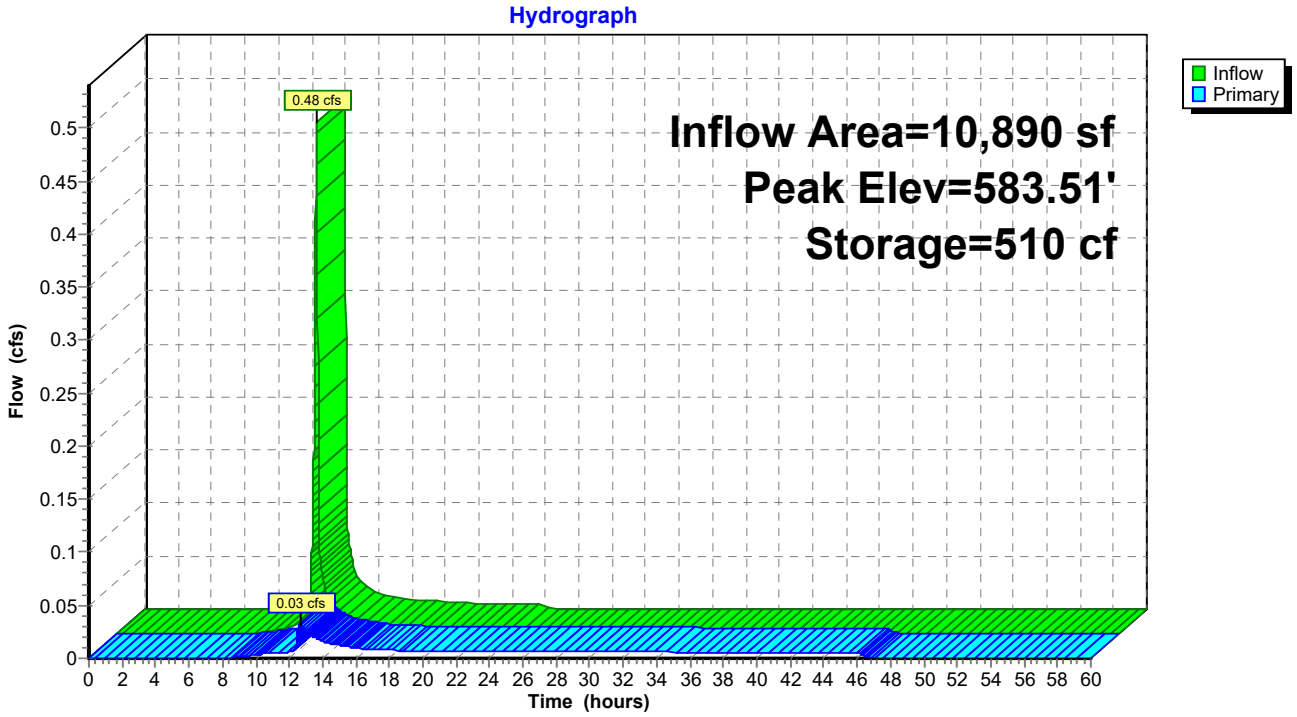
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	875	0	0
583.50	1,100	494	494
583.75	1,700	350	844

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**8.0" Round Culvert** L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 579.95' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.03 cfs @ 12.66 hrs HW=583.51' (Free Discharge)
└─**1=Culvert** (Passes 0.03 cfs of 2.08 cfs potential flow)
├─**2=Orifice/Grate** (Weir Controls 0.02 cfs @ 0.39 fps)
└─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 5P: Bio Area #2



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=2.000 ac 65.00% Impervious Runoff Depth=2.29"
Flow Length=440' Tc=3.9 min CN=92 Runoff=8.34 cfs 16,652 cf

Subcatchment2S: East Runoff Area=2.620 ac 69.85% Impervious Runoff Depth=2.39"
Flow Length=75' Tc=16.6 min CN=93 Runoff=7.47 cfs 22,713 cf

Subcatchment3S: Bldg 6 Runoff Area=0.300 ac 66.67% Impervious Runoff Depth=2.29"
Flow Length=100' Slope=0.0050 '/' Tc=19.3 min CN=92 Runoff=0.77 cfs 2,498 cf

Subcatchment4S: Bldg 7 Runoff Area=0.250 ac 60.00% Impervious Runoff Depth=2.20"
Flow Length=20' Slope=0.0060 '/' Tc=5.0 min CN=91 Runoff=0.97 cfs 1,998 cf

Pond 1B: Bio Area #1 Peak Elev=583.64' Storage=609 cf Inflow=0.77 cfs 2,498 cf
Outflow=0.72 cfs 2,498 cf

Pond 1P: Wet Pond Peak Elev=580.92' Storage=5,751 cf Inflow=8.34 cfs 19,150 cf
8.0" Round Culvert n=0.013 L=20.0' S=0.0050 '/' Outflow=1.61 cfs 19,150 cf

Pond 2P: Underground Detention Peak Elev=580.24' Storage=7,653 cf Inflow=8.00 cfs 24,711 cf
12.0" Round Culvert n=0.013 L=100.0' S=0.0037 '/' Outflow=2.84 cfs 24,672 cf

Pond 5P: Bio Area #2 Peak Elev=583.65' Storage=681 cf Inflow=0.97 cfs 1,998 cf
Outflow=0.78 cfs 1,998 cf

Total Runoff Area = 225,205 sf Runoff Volume = 43,861 cf Average Runoff Depth = 2.34"
32.69% Pervious = 73,616 sf 67.31% Impervious = 151,589 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

[47] Hint: Peak is 427% of capacity of segment #2

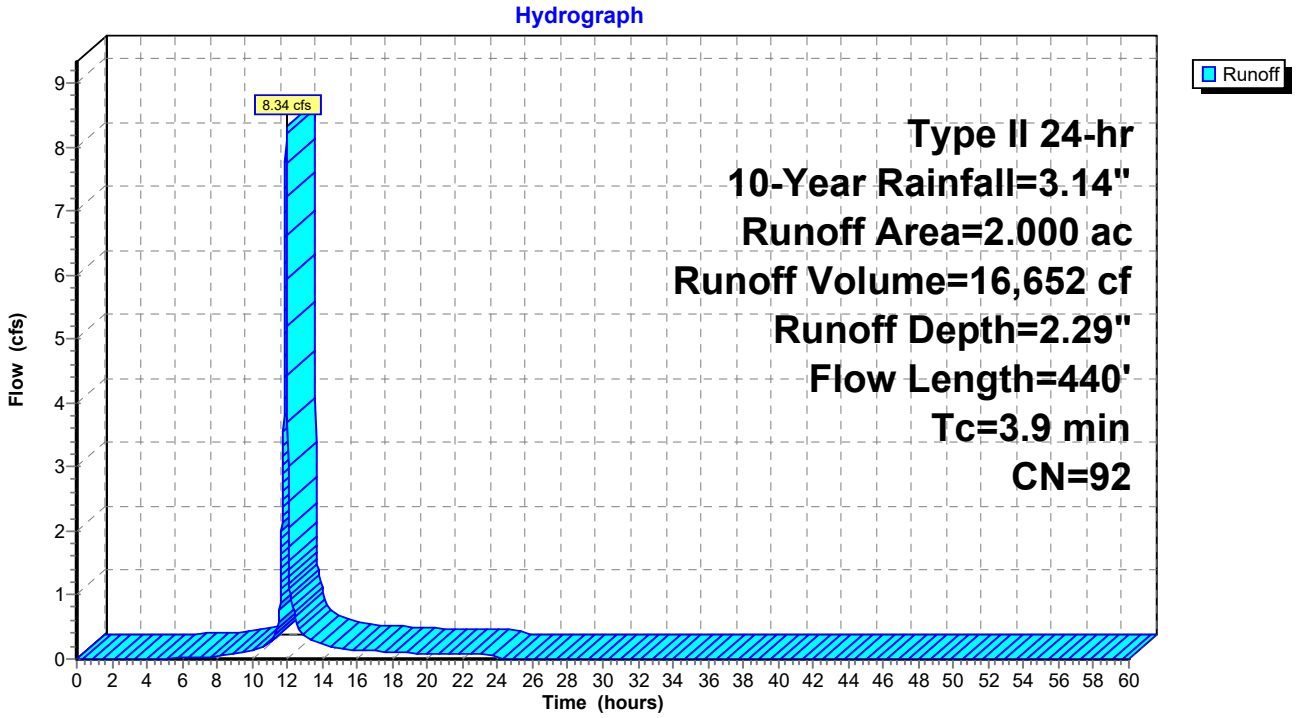
Runoff = 8.34 cfs @ 11.95 hrs, Volume= 16,652 cf, Depth= 2.29"
Routed to Pond 1P : Wet Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.470	98	Roofs, HSG D
0.830	98	Paved parking, HSG D
0.700	80	>75% Grass cover, Good, HSG D
2.000	92	Weighted Average
0.700		35.00% Pervious Area
1.300		65.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	105	0.0120	1.00		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
2.2	335	0.0030	2.48	1.95	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.9	440	Total			

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

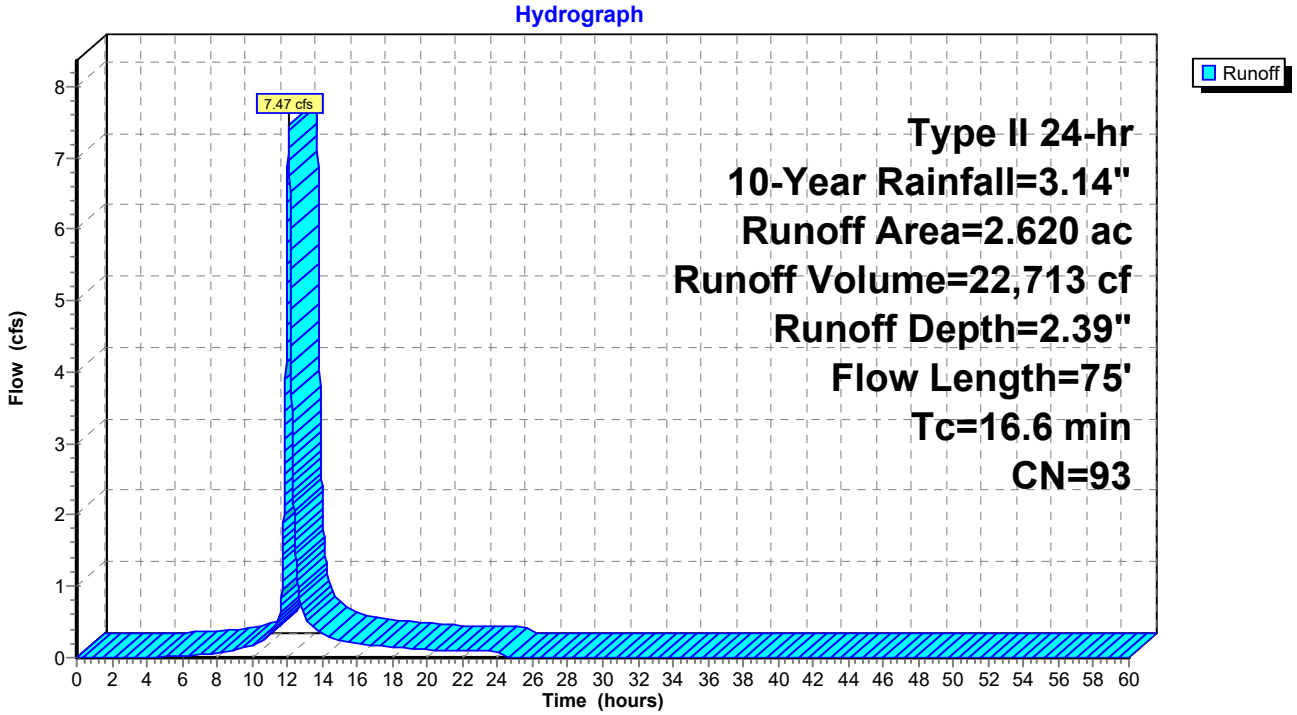
Runoff = 7.47 cfs @ 12.08 hrs, Volume= 22,713 cf, Depth= 2.39"
Routed to Pond 2P : Underground Detention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.550	98	Roofs, HSG D
1.280	98	Paved parking, HSG D
0.790	80	>75% Grass cover, Good, HSG D
2.620	93	Weighted Average
0.790		30.15% Pervious Area
1.830		69.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	50	0.0020	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
0.6	25	0.0100	0.70		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
16.6	75	Total			

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: Bldg 6

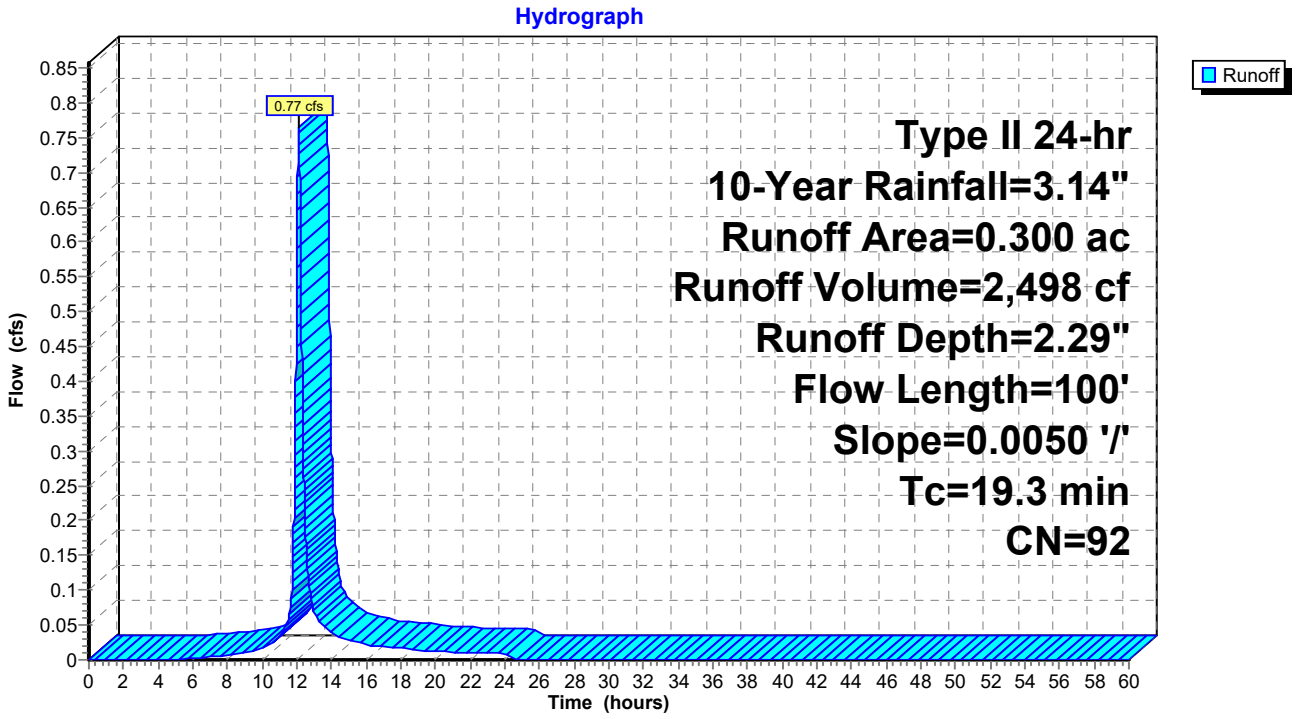
Runoff = 0.77 cfs @ 12.11 hrs, Volume= 2,498 cf, Depth= 2.29"
Routed to Pond 1B : Bio Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.130	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.070	98	Paved parking, HSG D
0.300	92	Weighted Average
0.100		33.33% Pervious Area
0.200		66.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.3	100	0.0050	0.09		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 3S: Bldg 6



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 4S: Bldg 7

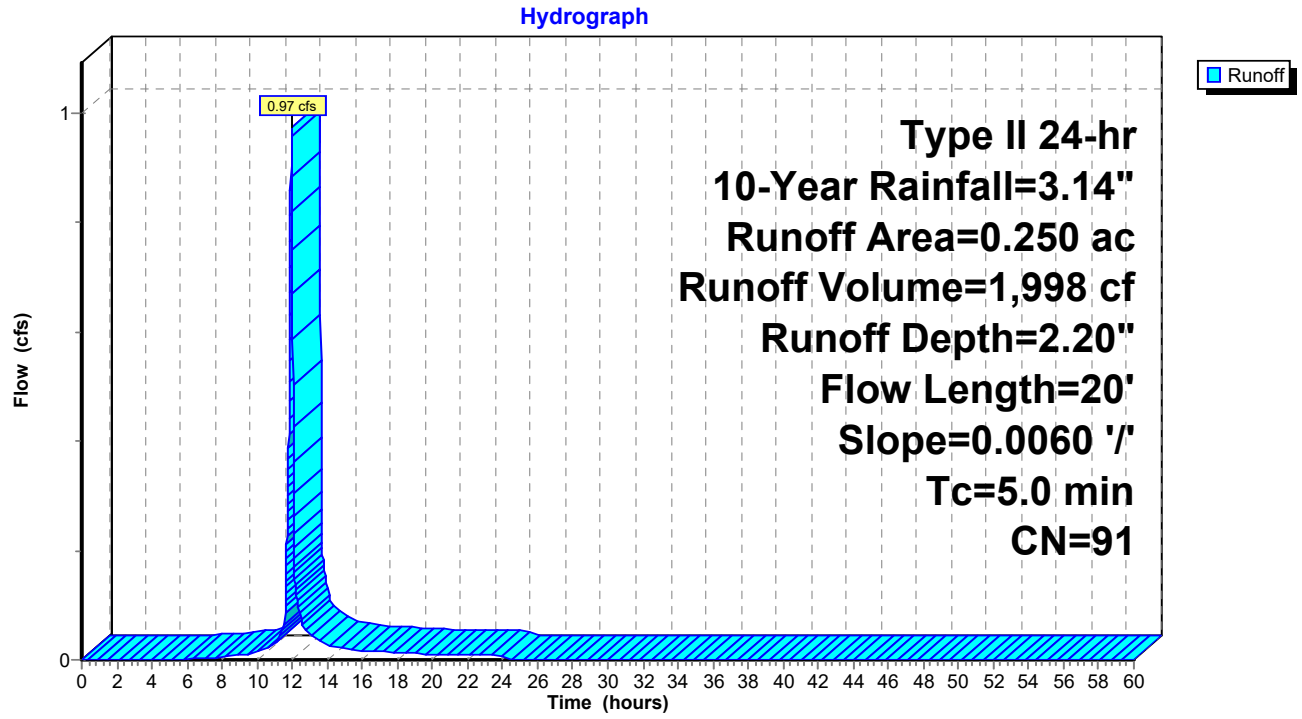
Runoff = 0.97 cfs @ 11.96 hrs, Volume= 1,998 cf, Depth= 2.20"
Routed to Pond 5P : Bio Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.100	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.050	98	Paved parking, HSG D
0.250	91	Weighted Average
0.100		40.00% Pervious Area
0.150		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	20	0.0060	0.07		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 4S: Bldg 7



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1B: Bio Area #1

Inflow Area = 13,068 sf, 66.67% Impervious, Inflow Depth = 2.29" for 10-Year event
Inflow = 0.77 cfs @ 12.11 hrs, Volume= 2,498 cf
Outflow = 0.72 cfs @ 12.17 hrs, Volume= 2,498 cf, Atten= 6%, Lag= 3.1 min
Primary = 0.72 cfs @ 12.17 hrs, Volume= 2,498 cf
Routed to Pond 1P : Wet Pond

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.64' @ 12.17 hrs Surf.Area= 1,333 sf Storage= 609 cf

Plug-Flow detention time= 258.8 min calculated for 2,498 cf (100% of inflow)
Center-of-Mass det. time= 258.8 min (1,066.4 - 807.6)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	767 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

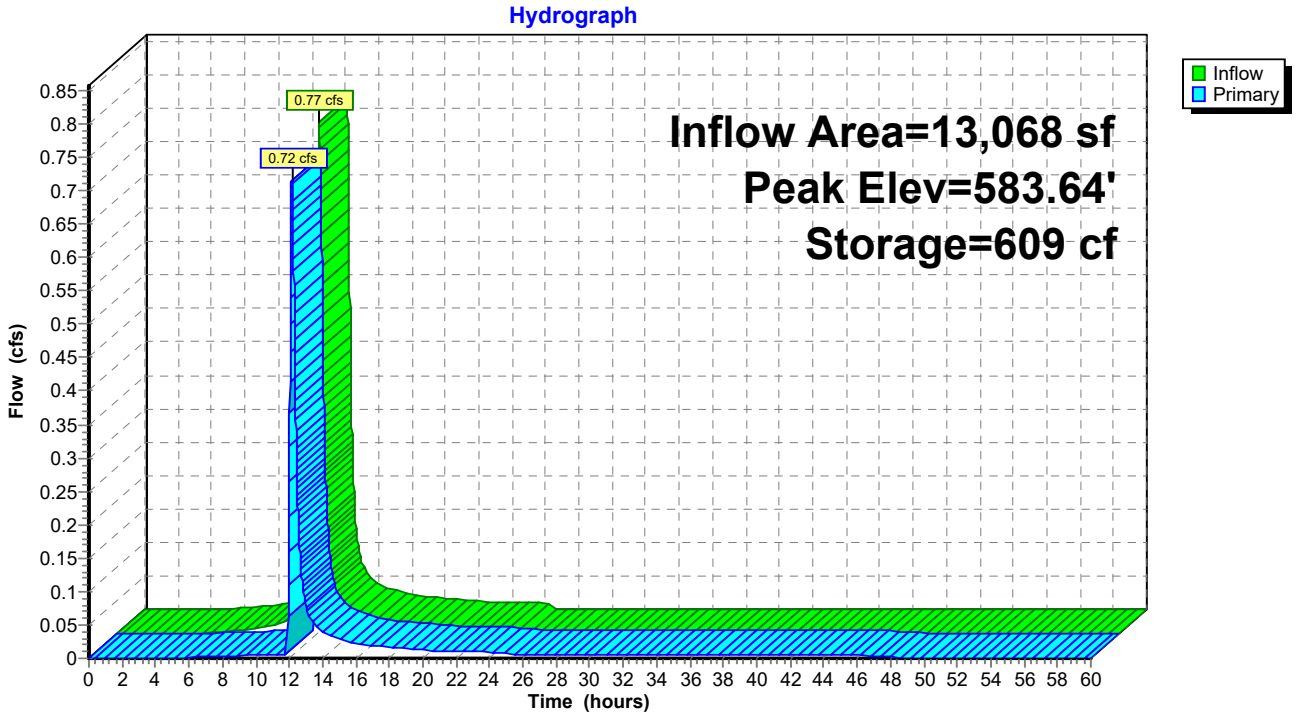
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	645	0	0
583.50	1,112	439	439
583.75	1,510	328	767

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**6.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 580.28' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.72 cfs @ 12.17 hrs HW=583.64' (Free Discharge)
└─**1=Culvert** (Passes 0.72 cfs of 1.48 cfs potential flow)
  ├─**2=Orifice/Grate** (Weir Controls 0.71 cfs @ 1.22 fps)
  └─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1B: Bio Area #1



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1P: Wet Pond

[44] Hint: Outlet device #1 is below defined storage
[79] Warning: Submerged Pond 1B Primary device # 1 INLET by 0.42'

Inflow Area = 100,188 sf, 65.22% Impervious, Inflow Depth = 2.29" for 10-Year event
Inflow = 8.34 cfs @ 11.95 hrs, Volume= 19,150 cf
Outflow = 1.61 cfs @ 12.22 hrs, Volume= 19,150 cf, Atten= 81%, Lag= 16.6 min
Primary = 1.61 cfs @ 12.22 hrs, Volume= 19,150 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 580.92' @ 12.22 hrs Surf.Area= 6,719 sf Storage= 5,751 cf

Plug-Flow detention time= 28.7 min calculated for 19,147 cf (100% of inflow)
Center-of-Mass det. time= 28.7 min (857.7 - 829.0)

Volume	Invert	Avail.Storage	Storage Description
#1	580.00'	13,600 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

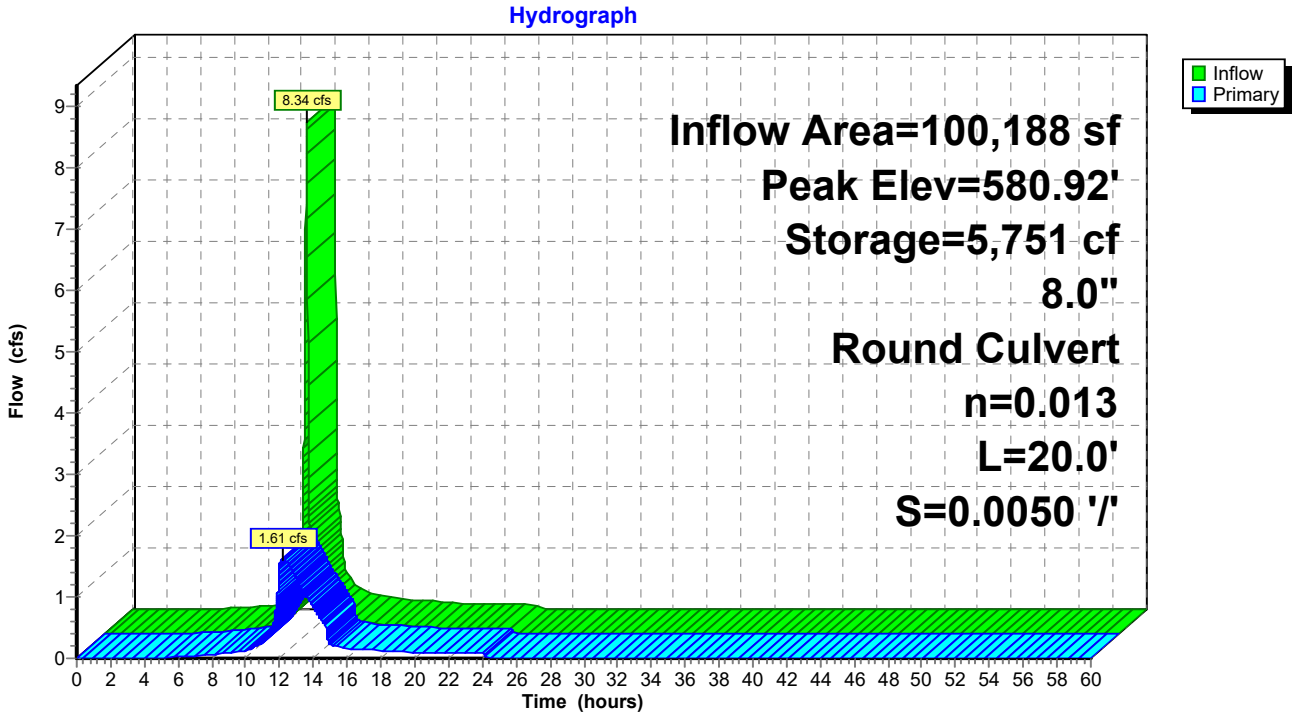
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
580.00	5,800	0	0
581.00	6,800	6,300	6,300
582.00	7,800	7,300	13,600

Device	Routing	Invert	Outlet Devices
#1	Primary	579.50'	**8.0" Round Culvert** L= 20.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 579.50' / 579.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.61 cfs @ 12.22 hrs HW=580.92' (Free Discharge)
↳**1=Culvert** (Barrel Controls 1.61 cfs @ 4.61 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1P: Wet Pond



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 2P: Underground Detention

[79] Warning: Submerged Pond 5P Primary device # 1 OUTLET by 0.29'

Inflow Area = 125,017 sf, 68.99% Impervious, Inflow Depth = 2.37" for 10-Year event
Inflow = 8.00 cfs @ 12.08 hrs, Volume= 24,711 cf
Outflow = 2.84 cfs @ 12.32 hrs, Volume= 24,672 cf, Atten= 65%, Lag= 14.6 min
Primary = 2.84 cfs @ 12.32 hrs, Volume= 24,672 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 580.24' @ 12.32 hrs Surf.Area= 7,226 sf Storage= 7,653 cf

Plug-Flow detention time= 59.9 min calculated for 24,668 cf (100% of inflow)
Center-of-Mass det. time= 56.9 min (886.0 - 829.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	578.67'	6,515 cf	**20.50'W x 352.50'L x 3.50'H Field A** 25,292 cf Overall - 9,004 cf Embedded = 16,287 cf x 40.0% Voids
#2A	579.17'	9,004 cf	**ADS_StormTech SC-740 +Cap** x 196 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 196 Chambers in 4 Rows
		15,519 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	578.67'	**12.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.67' / 578.30' S= 0.0037 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.84 cfs @ 12.32 hrs HW=580.24' (Free Discharge)
1=Culvert (Barrel Controls 2.84 cfs @ 3.61 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention - Chamber Wizard Field A

Chamber Model = ADS_StormTechSC-740 +Cap (ADS StormTech®SC-740 with cap length)
Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf
Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

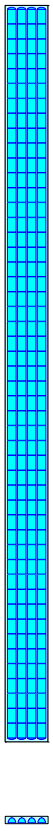
49 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 350.50' Row Length +12.0" End Stone x 2 = 352.50' Base Length
4 Rows x 51.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 20.50' Base Width
6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

196 Chambers x 45.9 cf = 9,004.2 cf Chamber Storage

25,291.6 cf Field - 9,004.2 cf Chambers = 16,287.4 cf Stone x 40.0% Voids = 6,515.0 cf Stone Storage

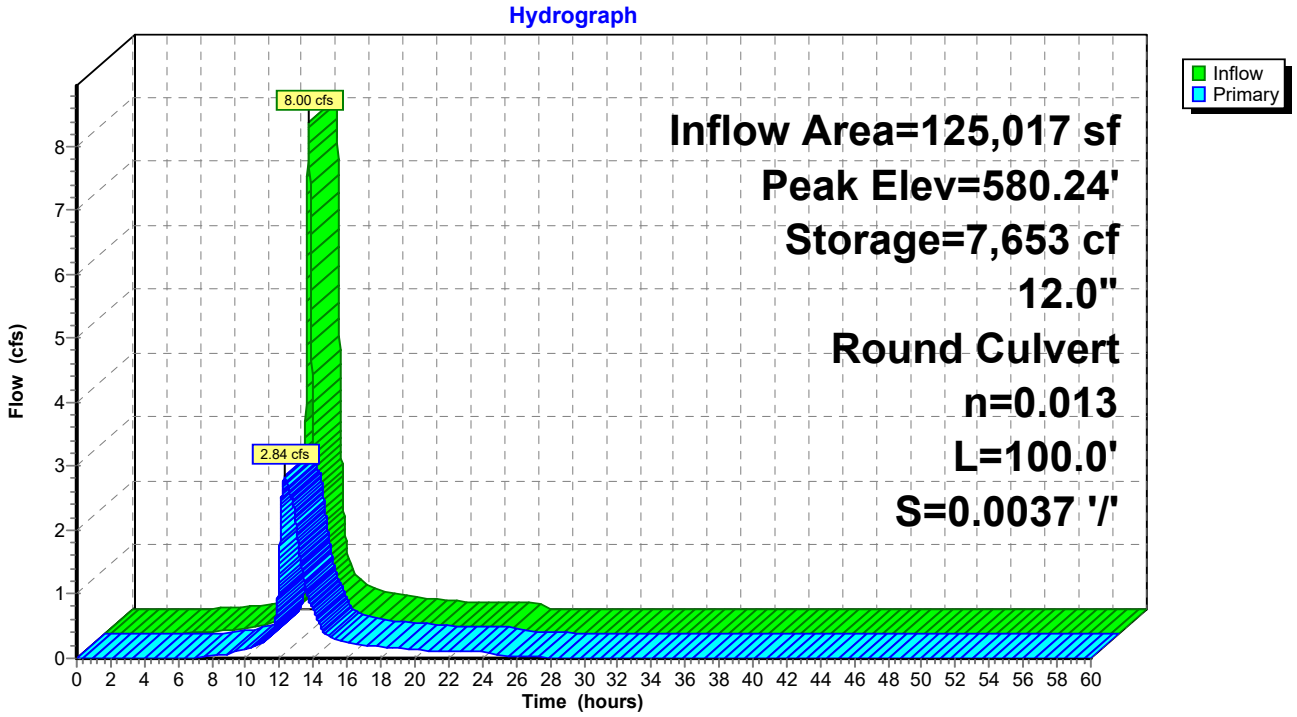
Chamber Storage + Stone Storage = 15,519.2 cf = 0.356 af
Overall Storage Efficiency = 61.4%
Overall System Size = 352.50' x 20.50' x 3.50'

196 Chambers
936.7 cy Field
603.2 cy Stone



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 5P: Bio Area #2

Inflow Area = 10,890 sf, 60.00% Impervious, Inflow Depth = 2.20" for 10-Year event
Inflow = 0.97 cfs @ 11.96 hrs, Volume= 1,998 cf
Outflow = 0.78 cfs @ 12.01 hrs, Volume= 1,998 cf, Atten= 20%, Lag= 2.9 min
Primary = 0.78 cfs @ 12.01 hrs, Volume= 1,998 cf
Routed to Pond 2P : Underground Detention

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.65' @ 12.01 hrs Surf.Area= 1,452 sf Storage= 681 cf

Plug-Flow detention time= 361.7 min calculated for 1,998 cf (100% of inflow)
Center-of-Mass det. time= 361.6 min (1,160.8 - 799.2)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

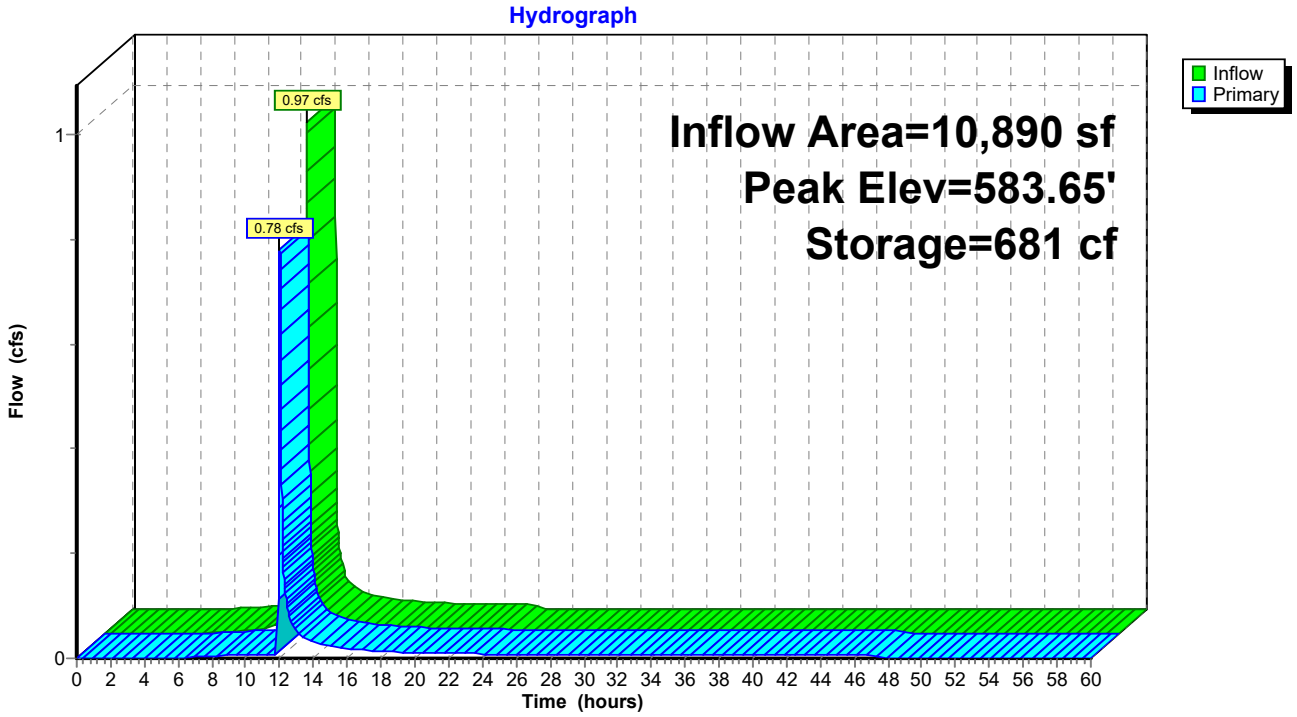
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	875	0	0
583.50	1,100	494	494
583.75	1,700	350	844

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**8.0" Round Culvert** L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 579.95' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.78 cfs @ 12.01 hrs HW=583.65' (Free Discharge)
└─**1=Culvert** (Passes 0.78 cfs of 2.12 cfs potential flow)
├─**2=Orifice/Grate** (Weir Controls 0.77 cfs @ 1.25 fps)
└─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 5P: Bio Area #2



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=2.000 ac 65.00% Impervious Runoff Depth=2.96"
Flow Length=440' Tc=3.9 min CN=92 Runoff=10.59 cfs 21,513 cf

Subcatchment2S: East Runoff Area=2.620 ac 69.85% Impervious Runoff Depth=3.06"
Flow Length=75' Tc=16.6 min CN=93 Runoff=9.46 cfs 29,143 cf

Subcatchment3S: Bldg 6 Runoff Area=0.300 ac 66.67% Impervious Runoff Depth=2.96"
Flow Length=100' Slope=0.0050 '/' Tc=19.3 min CN=92 Runoff=0.98 cfs 3,227 cf

Subcatchment4S: Bldg 7 Runoff Area=0.250 ac 60.00% Impervious Runoff Depth=2.86"
Flow Length=20' Slope=0.0060 '/' Tc=5.0 min CN=91 Runoff=1.25 cfs 2,599 cf

Pond 1B: Bio Area #1 Peak Elev=583.67' Storage=646 cf Inflow=0.98 cfs 3,227 cf
Outflow=0.93 cfs 3,227 cf

Pond 1P: Wet Pond Peak Elev=581.24' Storage=7,974 cf Inflow=10.95 cfs 24,740 cf
8.0" Round Culvert n=0.013 L=20.0' S=0.0050 '/' Outflow=1.89 cfs 24,740 cf

Pond 2P: Underground Detention Peak Elev=580.69' Storage=10,042 cf Inflow=10.15 cfs 31,743 cf
12.0" Round Culvert n=0.013 L=100.0' S=0.0037 '/' Outflow=3.45 cfs 31,703 cf

Pond 5P: Bio Area #2 Peak Elev=583.68' Storage=738 cf Inflow=1.25 cfs 2,599 cf
Outflow=1.10 cfs 2,599 cf

Total Runoff Area = 225,205 sf Runoff Volume = 56,483 cf Average Runoff Depth = 3.01"
32.69% Pervious = 73,616 sf 67.31% Impervious = 151,589 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

[47] Hint: Peak is 543% of capacity of segment #2

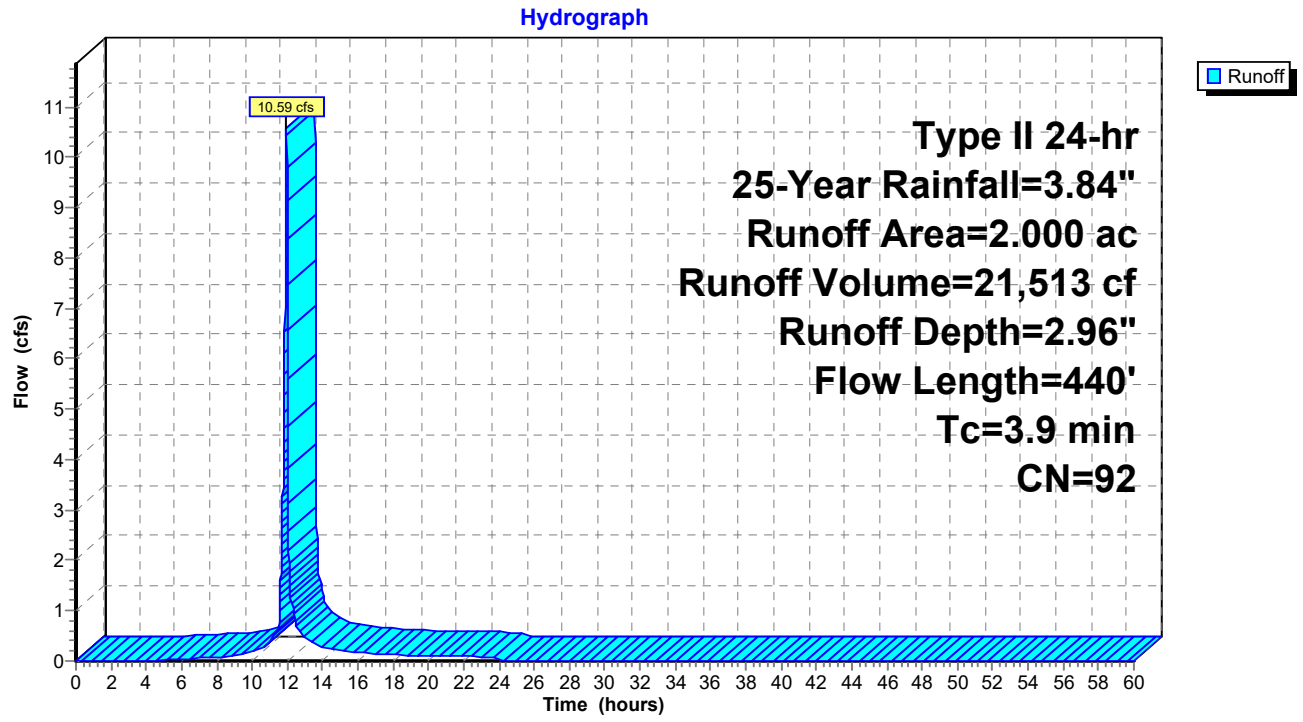
Runoff = 10.59 cfs @ 11.95 hrs, Volume= 21,513 cf, Depth= 2.96"
Routed to Pond 1P : Wet Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.470	98	Roofs, HSG D
0.830	98	Paved parking, HSG D
0.700	80	>75% Grass cover, Good, HSG D
2.000	92	Weighted Average
0.700		35.00% Pervious Area
1.300		65.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	105	0.0120	1.00		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
2.2	335	0.0030	2.48	1.95	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.9	440	Total			

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

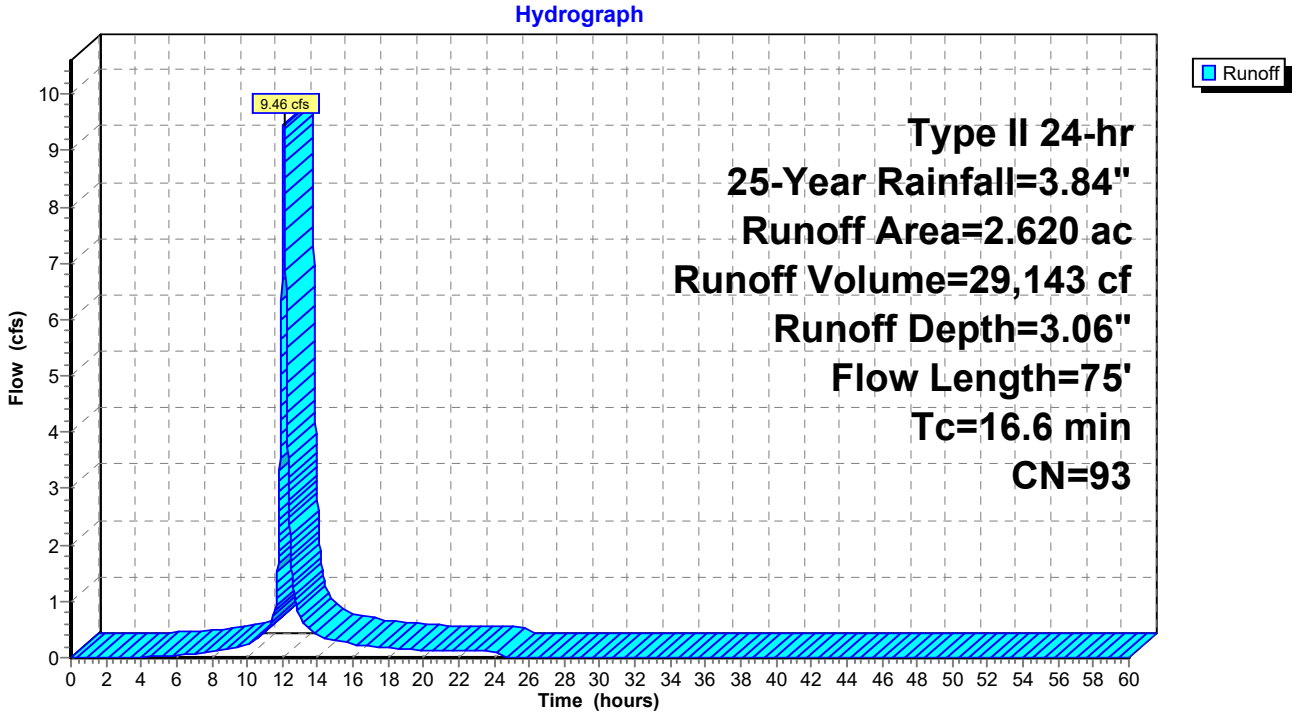
Runoff = 9.46 cfs @ 12.08 hrs, Volume= 29,143 cf, Depth= 3.06"
Routed to Pond 2P : Underground Detention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.550	98	Roofs, HSG D
1.280	98	Paved parking, HSG D
0.790	80	>75% Grass cover, Good, HSG D
2.620	93	Weighted Average
0.790		30.15% Pervious Area
1.830		69.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	50	0.0020	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
0.6	25	0.0100	0.70		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
16.6	75	Total			

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: Bldg 6

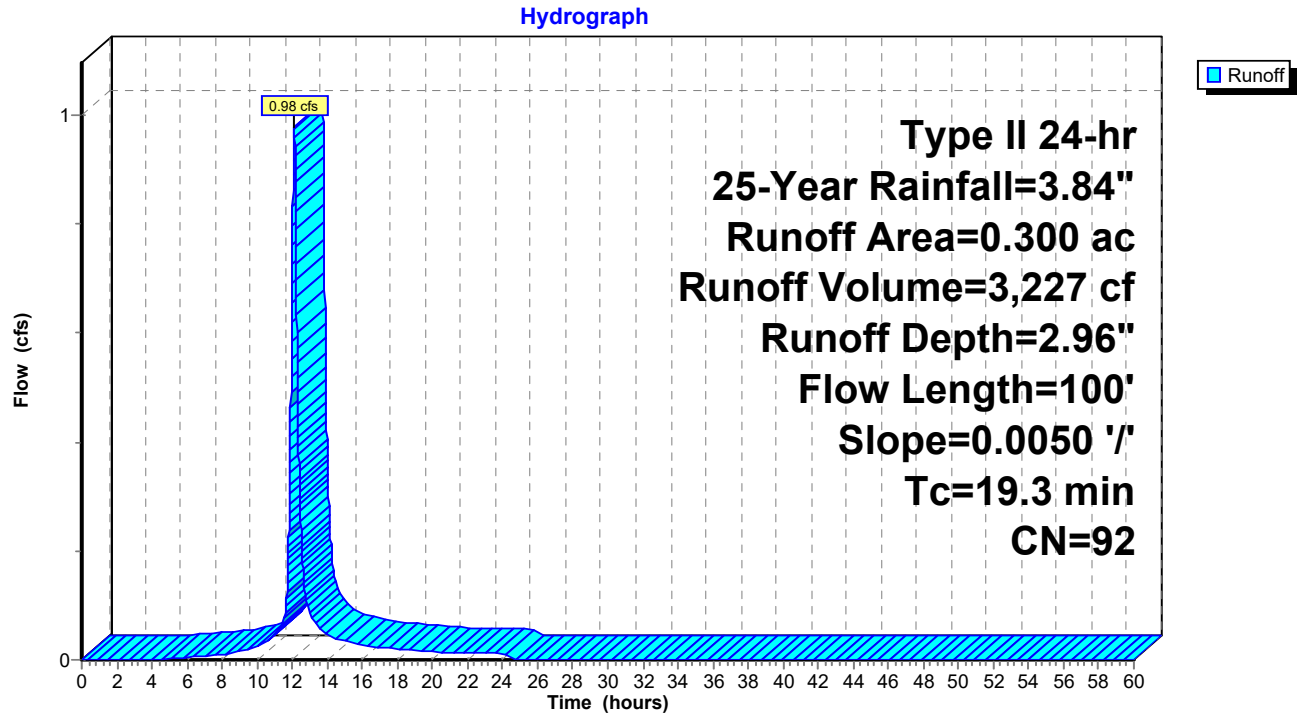
Runoff = 0.98 cfs @ 12.11 hrs, Volume= 3,227 cf, Depth= 2.96"
Routed to Pond 1B : Bio Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.130	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.070	98	Paved parking, HSG D
0.300	92	Weighted Average
0.100		33.33% Pervious Area
0.200		66.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.3	100	0.0050	0.09		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 3S: Bldg 6



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 4S: Bldg 7

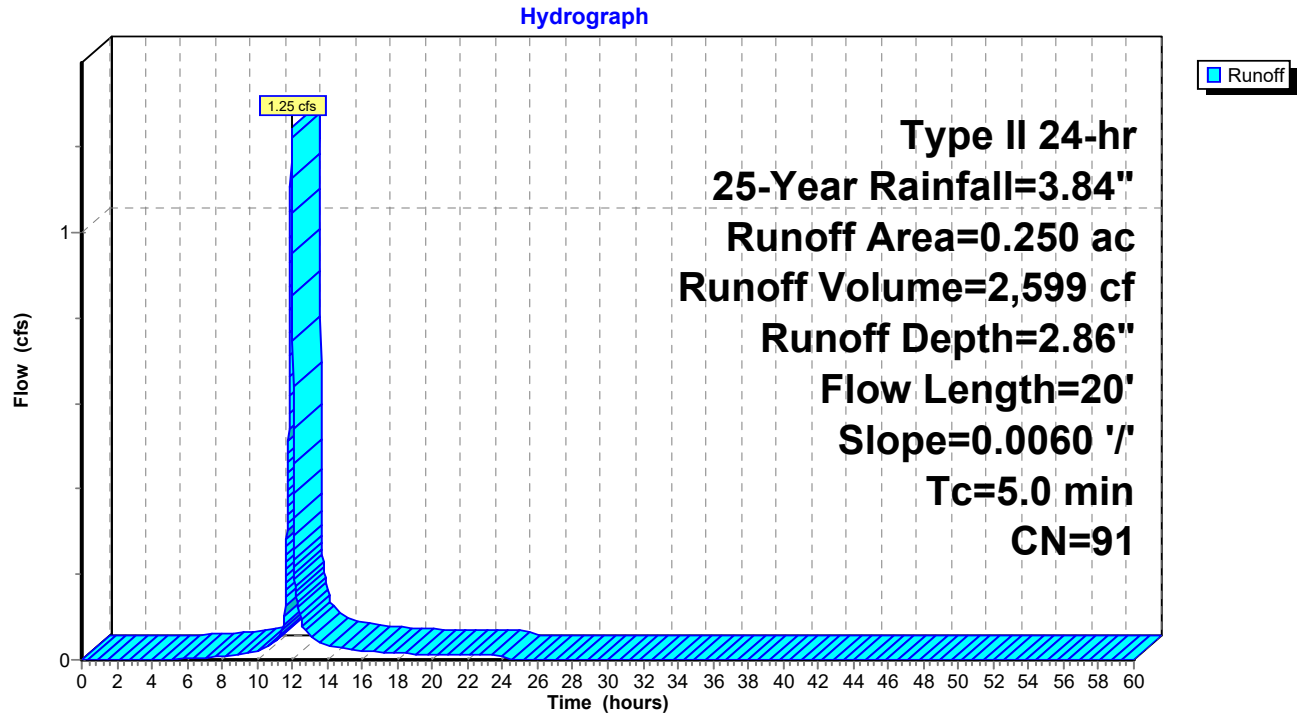
Runoff = 1.25 cfs @ 11.96 hrs, Volume= 2,599 cf, Depth= 2.86"
Routed to Pond 5P : Bio Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.100	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.050	98	Paved parking, HSG D
0.250	91	Weighted Average
0.100		40.00% Pervious Area
0.150		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	20	0.0060	0.07		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 4S: Bldg 7



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1B: Bio Area #1

Inflow Area = 13,068 sf, 66.67% Impervious, Inflow Depth = 2.96" for 25-Year event
Inflow = 0.98 cfs @ 12.11 hrs, Volume= 3,227 cf
Outflow = 0.93 cfs @ 12.16 hrs, Volume= 3,227 cf, Atten= 5%, Lag= 2.6 min
Primary = 0.93 cfs @ 12.16 hrs, Volume= 3,227 cf
Routed to Pond 1P : Wet Pond

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.67' @ 12.16 hrs Surf.Area= 1,376 sf Storage= 646 cf

Plug-Flow detention time= 206.8 min calculated for 3,227 cf (100% of inflow)
Center-of-Mass det. time= 206.7 min (1,007.2 - 800.5)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	767 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

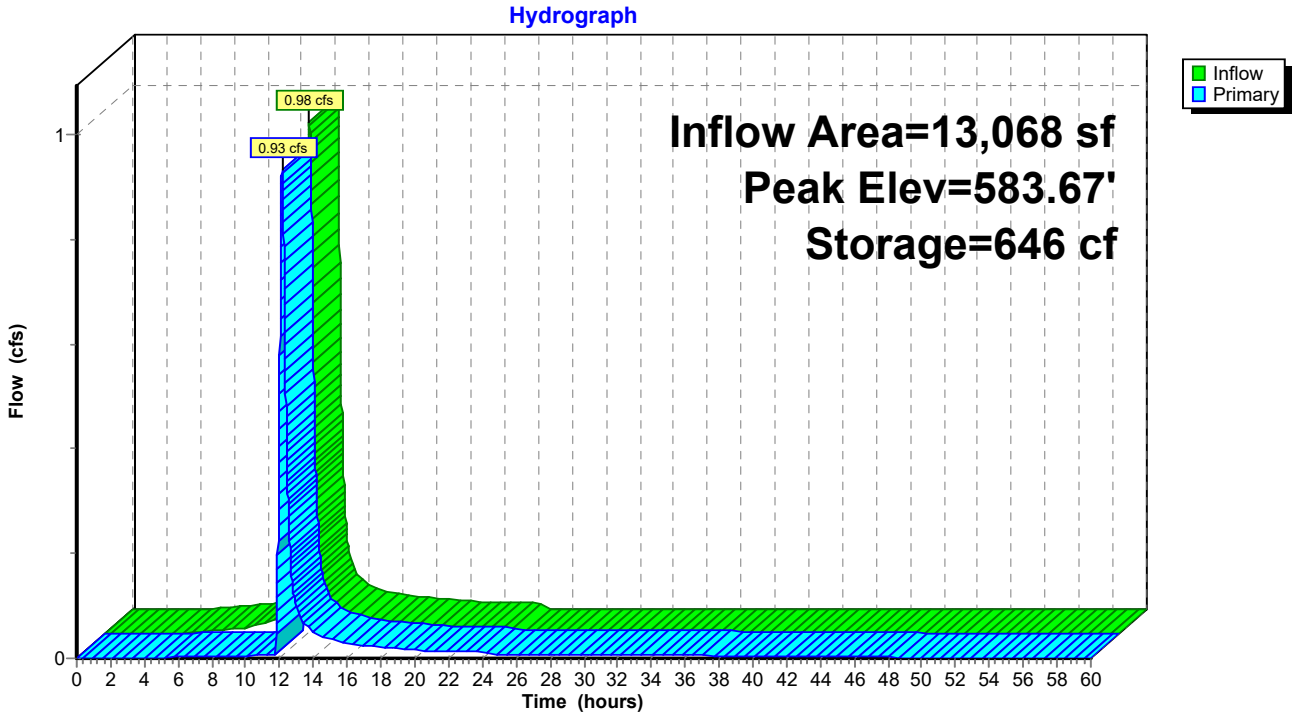
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	645	0	0
583.50	1,112	439	439
583.75	1,510	328	767

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**6.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 580.28' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.93 cfs @ 12.16 hrs HW=583.67' (Free Discharge)
└─**1=Culvert** (Passes 0.93 cfs of 1.49 cfs potential flow)
  ├─**2=Orifice/Grate** (Weir Controls 0.92 cfs @ 1.33 fps)
  └─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1B: Bio Area #1



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1P: Wet Pond

[44] Hint: Outlet device #1 is below defined storage
[79] Warning: Submerged Pond 1B Primary device # 1 INLET by 0.74'

Inflow Area = 100,188 sf, 65.22% Impervious, Inflow Depth = 2.96" for 25-Year event
Inflow = 10.95 cfs @ 11.95 hrs, Volume= 24,740 cf
Outflow = 1.89 cfs @ 12.26 hrs, Volume= 24,740 cf, Atten= 83%, Lag= 18.7 min
Primary = 1.89 cfs @ 12.26 hrs, Volume= 24,740 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 581.24' @ 12.26 hrs Surf.Area= 7,042 sf Storage= 7,974 cf

Plug-Flow detention time= 34.7 min calculated for 24,736 cf (100% of inflow)
Center-of-Mass det. time= 34.7 min (849.7 - 815.0)

Volume	Invert	Avail.Storage	Storage Description
#1	580.00'	13,600 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

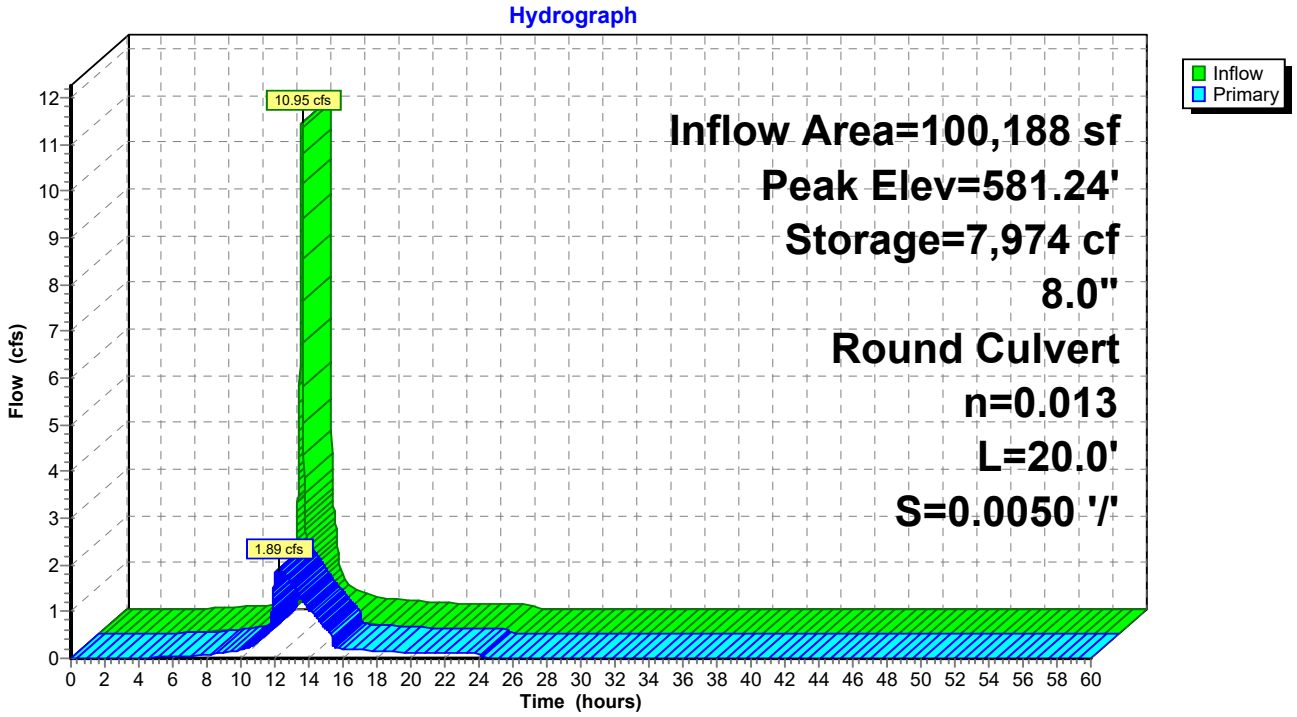
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
580.00	5,800	0	0
581.00	6,800	6,300	6,300
582.00	7,800	7,300	13,600

Device	Routing	Invert	Outlet Devices
#1	Primary	579.50'	**8.0" Round Culvert** L= 20.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 579.50' / 579.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.89 cfs @ 12.26 hrs HW=581.24' (Free Discharge)
↑—**1=Culvert** (Barrel Controls 1.89 cfs @ 5.42 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1P: Wet Pond



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 2P: Underground Detention

[79] Warning: Submerged Pond 5P Primary device # 1 INLET by 0.19'

Inflow Area = 125,017 sf, 68.99% Impervious, Inflow Depth = 3.05" for 25-Year event
Inflow = 10.15 cfs @ 12.07 hrs, Volume= 31,743 cf
Outflow = 3.45 cfs @ 12.32 hrs, Volume= 31,703 cf, Atten= 66%, Lag= 15.2 min
Primary = 3.45 cfs @ 12.32 hrs, Volume= 31,703 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 580.69' @ 12.32 hrs Surf.Area= 7,226 sf Storage= 10,042 cf

Plug-Flow detention time= 57.0 min calculated for 31,703 cf (100% of inflow)
Center-of-Mass det. time= 54.5 min (870.8 - 816.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	578.67'	6,515 cf	**20.50'W x 352.50'L x 3.50'H Field A** 25,292 cf Overall - 9,004 cf Embedded = 16,287 cf x 40.0% Voids
#2A	579.17'	9,004 cf	**ADS_StormTech SC-740 +Cap** x 196 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 196 Chambers in 4 Rows
		15,519 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	578.67'	**12.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.67' / 578.30' S= 0.0037 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.45 cfs @ 12.32 hrs HW=580.69' (Free Discharge)
└**1=Culvert** (Barrel Controls 3.45 cfs @ 4.40 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention - Chamber Wizard Field A

Chamber Model = ADS_StormTechSC-740 +Cap (ADS StormTech®SC-740 with cap length)
Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf
Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

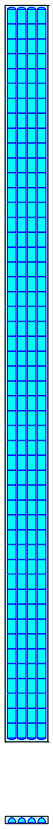
49 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 350.50' Row Length +12.0" End Stone x 2 = 352.50' Base Length
4 Rows x 51.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 20.50' Base Width
6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

196 Chambers x 45.9 cf = 9,004.2 cf Chamber Storage

25,291.6 cf Field - 9,004.2 cf Chambers = 16,287.4 cf Stone x 40.0% Voids = 6,515.0 cf Stone Storage

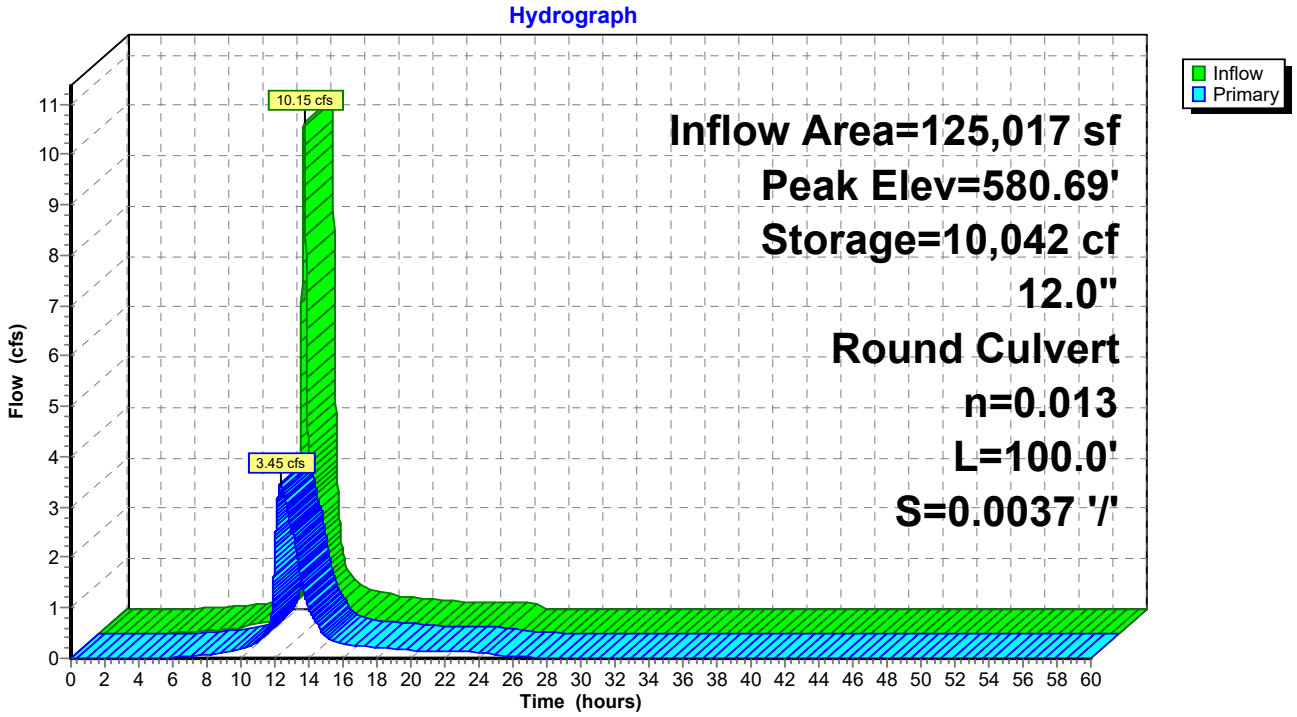
Chamber Storage + Stone Storage = 15,519.2 cf = 0.356 af
Overall Storage Efficiency = 61.4%
Overall System Size = 352.50' x 20.50' x 3.50'

196 Chambers
936.7 cy Field
603.2 cy Stone



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 5P: Bio Area #2

Inflow Area = 10,890 sf, 60.00% Impervious, Inflow Depth = 2.86" for 25-Year event
Inflow = 1.25 cfs @ 11.96 hrs, Volume= 2,599 cf
Outflow = 1.10 cfs @ 11.99 hrs, Volume= 2,599 cf, Atten= 12%, Lag= 2.1 min
Primary = 1.10 cfs @ 11.99 hrs, Volume= 2,599 cf
Routed to Pond 2P : Underground Detention

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.68' @ 11.99 hrs Surf.Area= 1,543 sf Storage= 738 cf

Plug-Flow detention time= 283.8 min calculated for 2,599 cf (100% of inflow)
Center-of-Mass det. time= 284.0 min (1,075.7 - 791.7)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

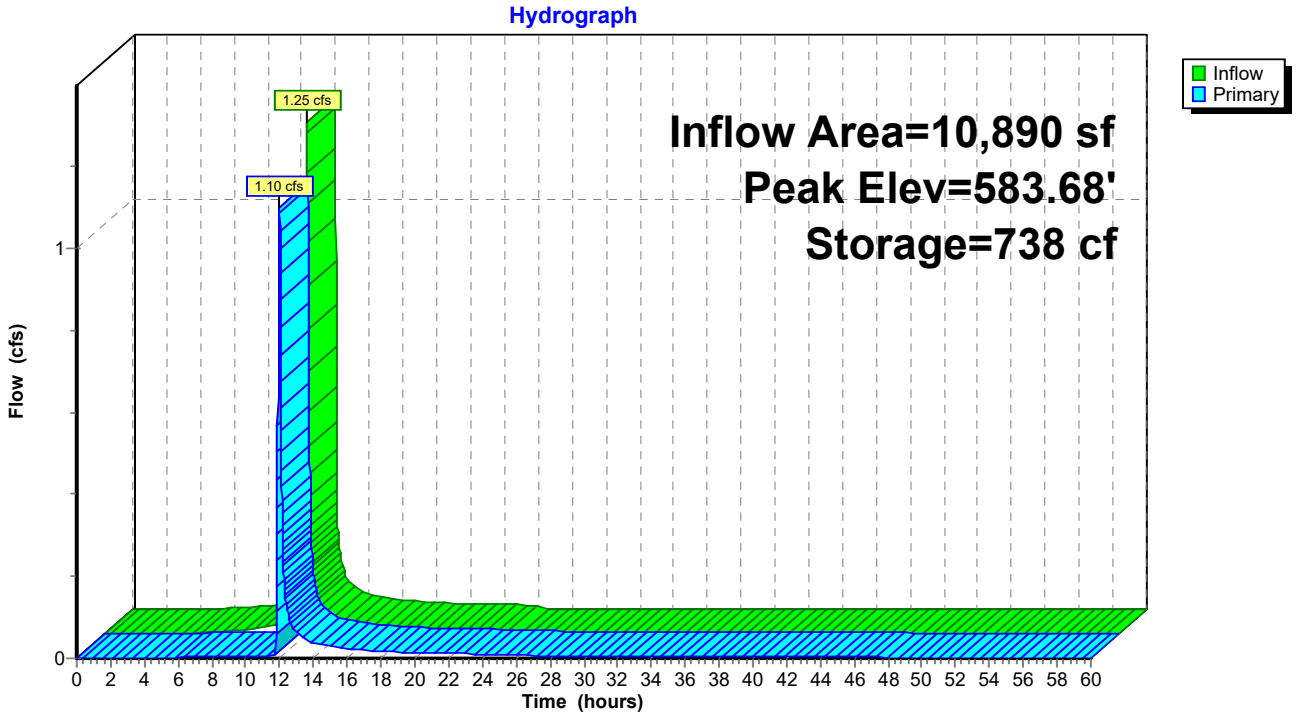
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	875	0	0
583.50	1,100	494	494
583.75	1,700	350	844

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**8.0" Round Culvert** L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 579.95' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=1.09 cfs @ 11.99 hrs HW=583.68' (Free Discharge)
└─**1=Culvert** (Passes 1.09 cfs of 2.14 cfs potential flow)
  ├─**2=Orifice/Grate** (Weir Controls 1.09 cfs @ 1.40 fps)
  └─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 5P: Bio Area #2



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=2.000 ac 65.00% Impervious Runoff Depth=4.31"
Flow Length=440' Tc=3.9 min CN=92 Runoff=15.01 cfs 31,321 cf

Subcatchment2S: East Runoff Area=2.620 ac 69.85% Impervious Runoff Depth=4.42"
Flow Length=75' Tc=16.6 min CN=93 Runoff=13.39 cfs 42,074 cf

Subcatchment3S: Bldg 6 Runoff Area=0.300 ac 66.67% Impervious Runoff Depth=4.31"
Flow Length=100' Slope=0.0050 '/' Tc=19.3 min CN=92 Runoff=1.40 cfs 4,698 cf

Subcatchment4S: Bldg 7 Runoff Area=0.250 ac 60.00% Impervious Runoff Depth=4.21"
Flow Length=20' Slope=0.0060 '/' Tc=5.0 min CN=91 Runoff=1.78 cfs 3,817 cf

Pond 1B: Bio Area #1 Peak Elev=583.71' Storage=710 cf Inflow=1.40 cfs 4,698 cf
Outflow=1.34 cfs 4,698 cf

Pond 1P: Wet Pond Peak Elev=581.88' Storage=12,683 cf Inflow=15.61 cfs 36,019 cf
8.0" Round Culvert n=0.013 L=20.0' S=0.0050 '/' Outflow=2.35 cfs 36,019 cf

Pond 2P: Underground Detention Peak Elev=581.93' Storage=14,839 cf Inflow=14.36 cfs 45,891 cf
12.0" Round Culvert n=0.013 L=100.0' S=0.0037 '/' Outflow=4.75 cfs 45,851 cf

Pond 5P: Bio Area #2 Peak Elev=583.74' Storage=825 cf Inflow=1.78 cfs 3,817 cf
Outflow=1.61 cfs 3,817 cf

Total Runoff Area = 225,205 sf Runoff Volume = 81,909 cf Average Runoff Depth = 4.36"
32.69% Pervious = 73,616 sf 67.31% Impervious = 151,589 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

[47] Hint: Peak is 769% of capacity of segment #2

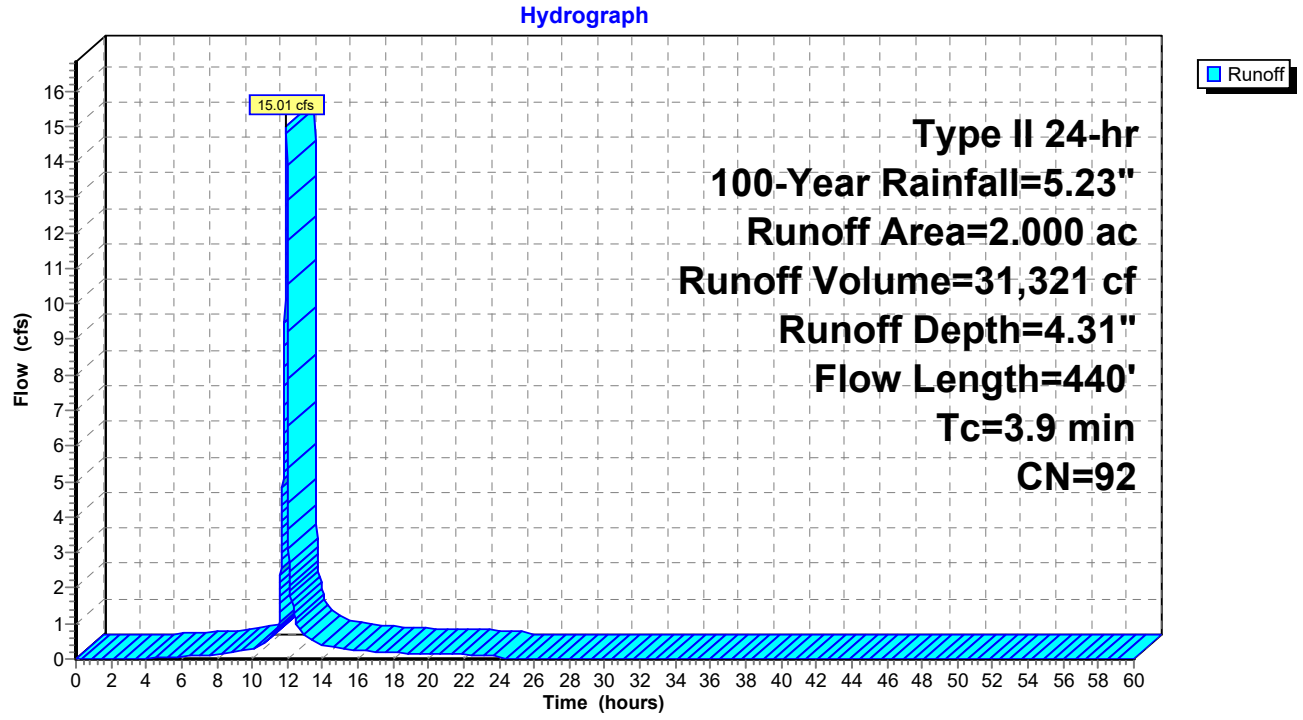
Runoff = 15.01 cfs @ 11.94 hrs, Volume= 31,321 cf, Depth= 4.31"
Routed to Pond 1P : Wet Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.470	98	Roofs, HSG D
0.830	98	Paved parking, HSG D
0.700	80	>75% Grass cover, Good, HSG D
2.000	92	Weighted Average
0.700		35.00% Pervious Area
1.300		65.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	105	0.0120	1.00		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
2.2	335	0.0030	2.48	1.95	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.9	440	Total			

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

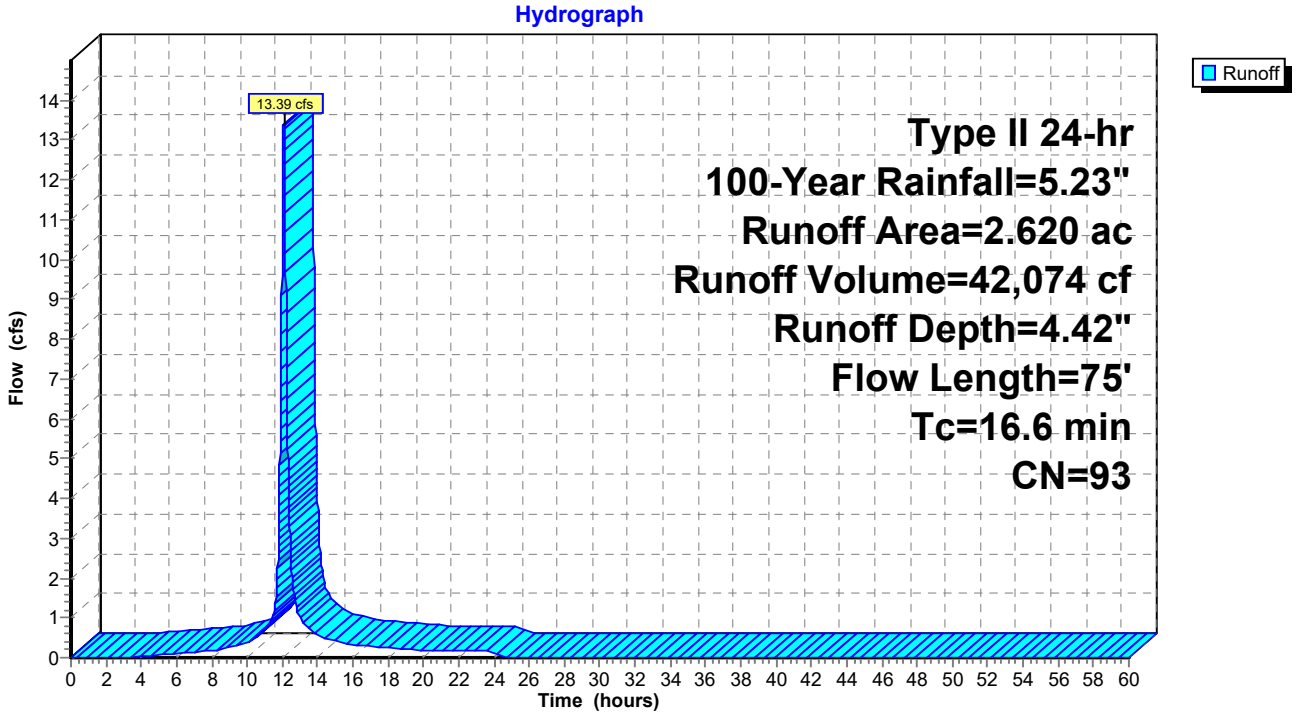
Runoff = 13.39 cfs @ 12.08 hrs, Volume= 42,074 cf, Depth= 4.42"
Routed to Pond 2P : Underground Detention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.550	98	Roofs, HSG D
1.280	98	Paved parking, HSG D
0.790	80	>75% Grass cover, Good, HSG D
2.620	93	Weighted Average
0.790		30.15% Pervious Area
1.830		69.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	50	0.0020	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
0.6	25	0.0100	0.70		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
16.6	75	Total			

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: Bldg 6

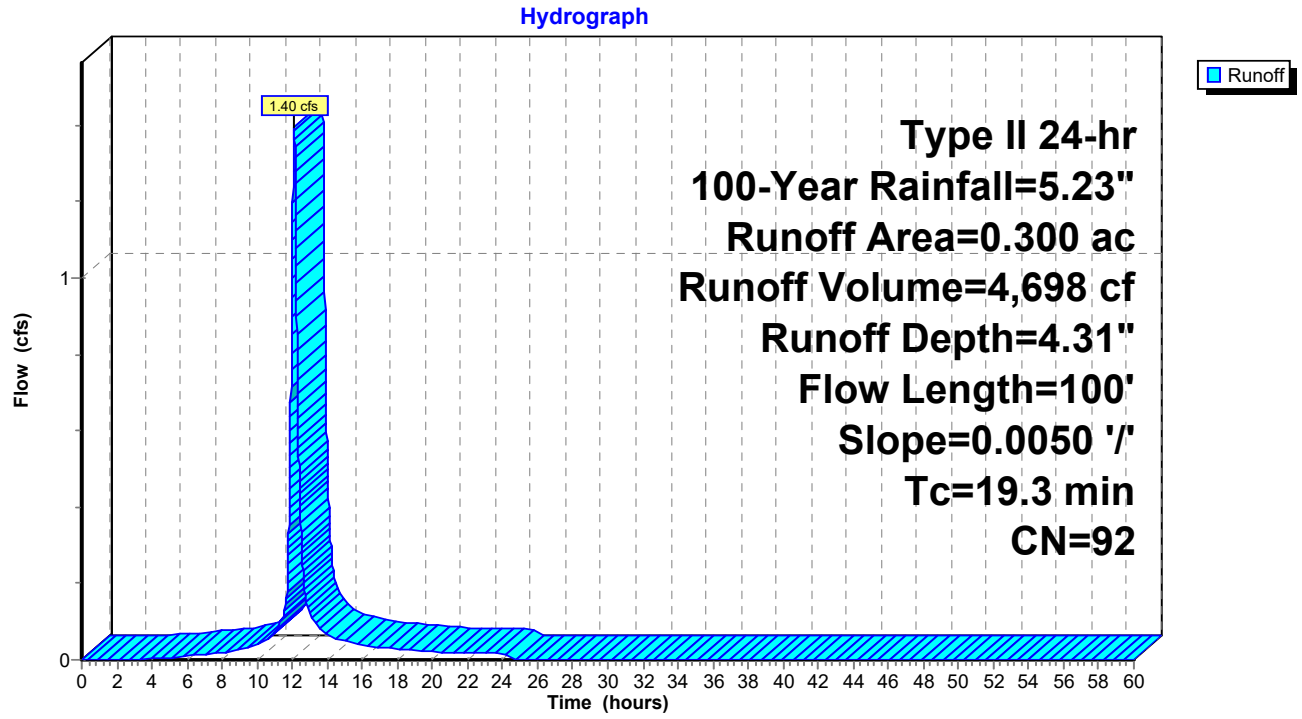
Runoff = 1.40 cfs @ 12.11 hrs, Volume= 4,698 cf, Depth= 4.31"
Routed to Pond 1B : Bio Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.130	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.070	98	Paved parking, HSG D
0.300	92	Weighted Average
0.100		33.33% Pervious Area
0.200		66.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.3	100	0.0050	0.09		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 3S: Bldg 6



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 4S: Bldg 7

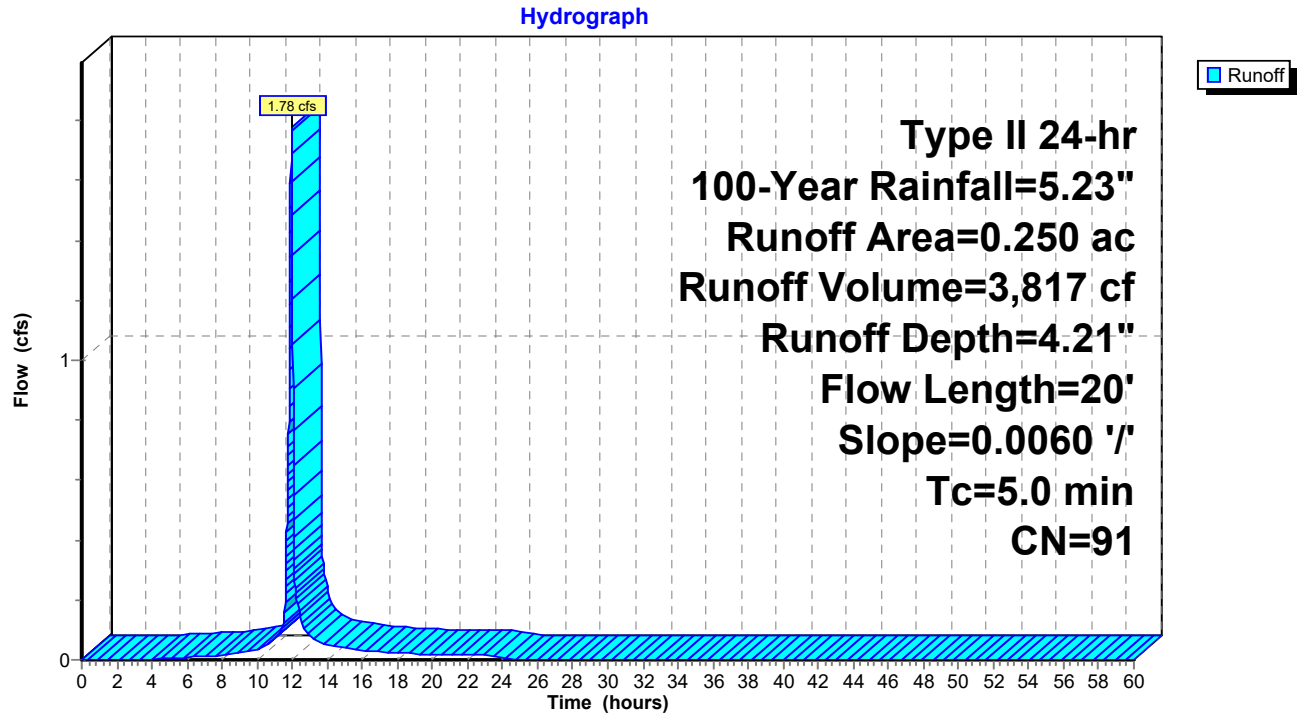
Runoff = 1.78 cfs @ 11.96 hrs, Volume= 3,817 cf, Depth= 4.21"
Routed to Pond 5P : Bio Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.100	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.050	98	Paved parking, HSG D
0.250	91	Weighted Average
0.100		40.00% Pervious Area
0.150		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	20	0.0060	0.07		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 4S: Bldg 7



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1B: Bio Area #1

Inflow Area = 13,068 sf, 66.67% Impervious, Inflow Depth = 4.31" for 100-Year event
Inflow = 1.40 cfs @ 12.11 hrs, Volume= 4,698 cf
Outflow = 1.34 cfs @ 12.15 hrs, Volume= 4,698 cf, Atten= 4%, Lag= 2.4 min
Primary = 1.34 cfs @ 12.15 hrs, Volume= 4,698 cf
Routed to Pond 1P : Wet Pond

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.71' @ 12.15 hrs Surf.Area= 1,449 sf Storage= 710 cf

Plug-Flow detention time= 151.3 min calculated for 4,698 cf (100% of inflow)
Center-of-Mass det. time= 151.3 min (941.6 - 790.3)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	767 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

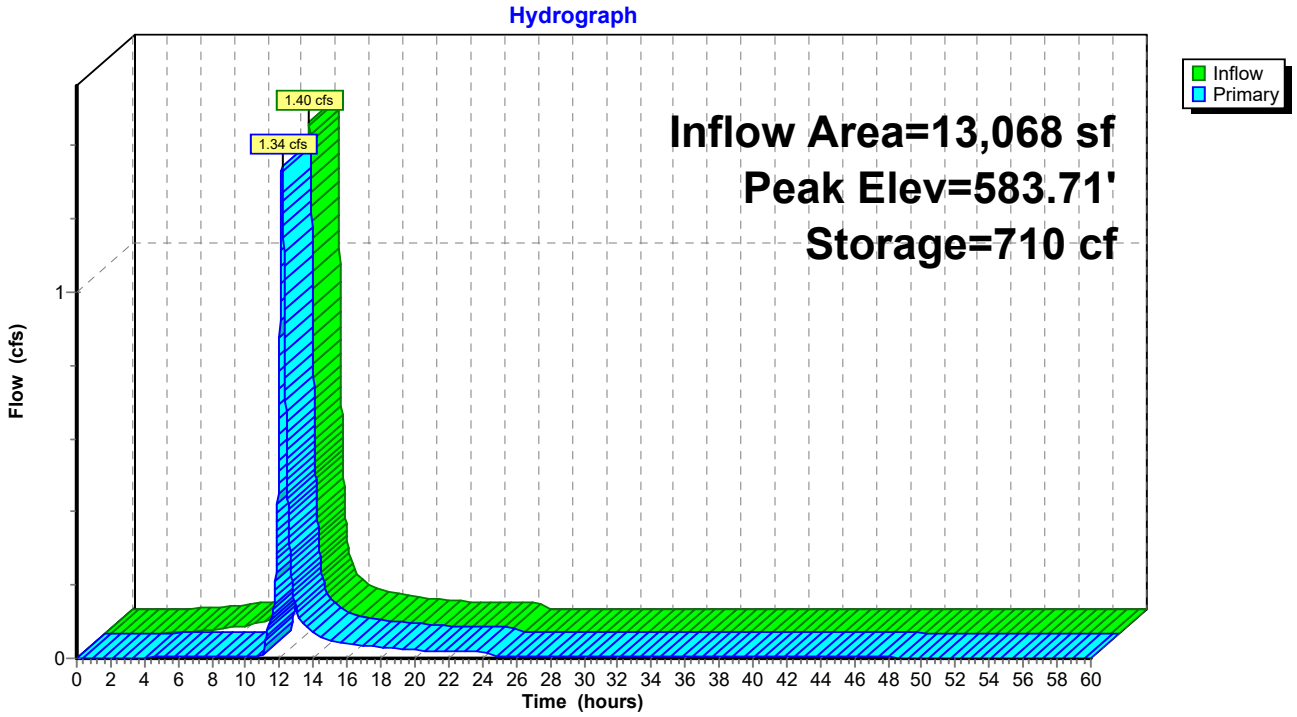
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	645	0	0
583.50	1,112	439	439
583.75	1,510	328	767

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**6.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 580.28' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=1.34 cfs @ 12.15 hrs HW=583.71' (Free Discharge)
└─**1=Culvert** (Passes 1.34 cfs of 1.50 cfs potential flow)
  ├─**2=Orifice/Grate** (Weir Controls 1.33 cfs @ 1.50 fps)
  └─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1B: Bio Area #1



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1P: Wet Pond

[44] Hint: Outlet device #1 is below defined storage
[79] Warning: Submerged Pond 1B Primary device # 1 INLET by 1.38'

Inflow Area = 100,188 sf, 65.22% Impervious, Inflow Depth = 4.31" for 100-Year event
Inflow = 15.61 cfs @ 11.95 hrs, Volume= 36,019 cf
Outflow = 2.35 cfs @ 12.31 hrs, Volume= 36,019 cf, Atten= 85%, Lag= 21.7 min
Primary = 2.35 cfs @ 12.31 hrs, Volume= 36,019 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 581.88' @ 12.31 hrs Surf.Area= 7,681 sf Storage= 12,683 cf

Plug-Flow detention time= 45.8 min calculated for 36,013 cf (100% of inflow)
Center-of-Mass det. time= 45.8 min (843.4 - 797.6)

Volume	Invert	Avail.Storage	Storage Description
#1	580.00'	13,600 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

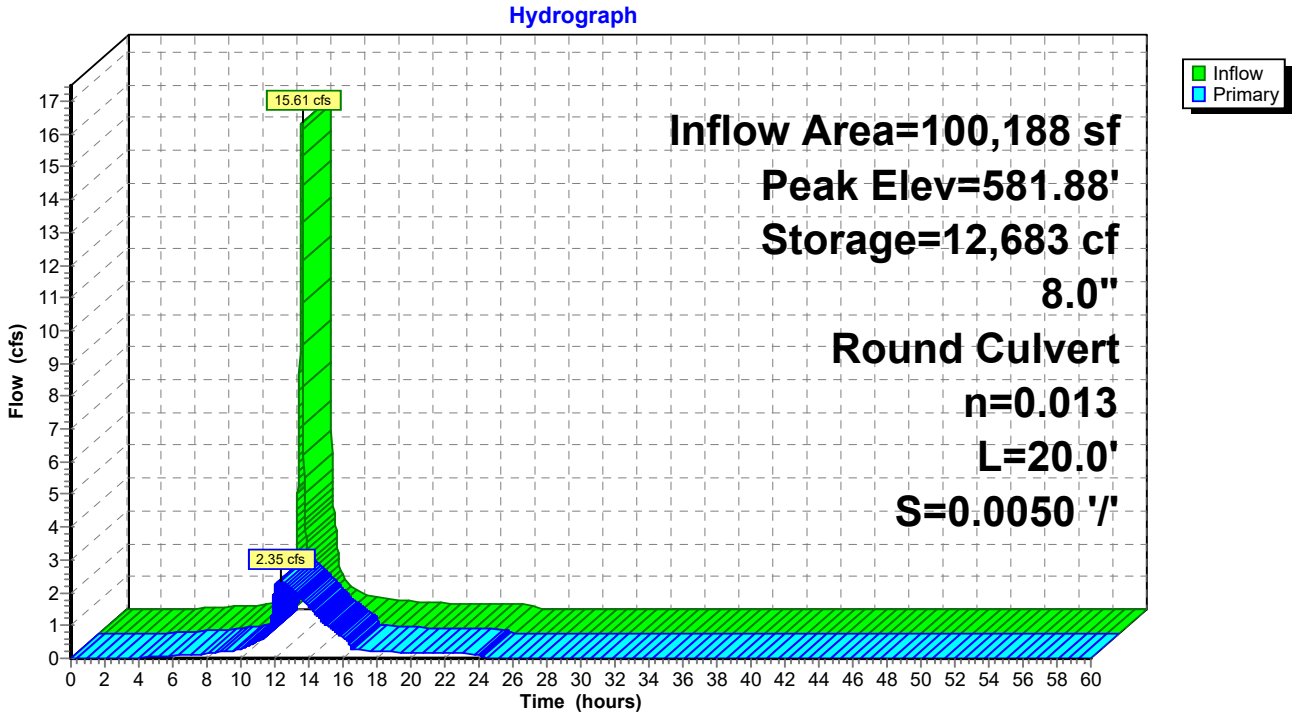
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
580.00	5,800	0	0
581.00	6,800	6,300	6,300
582.00	7,800	7,300	13,600

Device	Routing	Invert	Outlet Devices
#1	Primary	579.50'	**8.0" Round Culvert** L= 20.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 579.50' / 579.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=2.35 cfs @ 12.31 hrs HW=581.88' (Free Discharge)
↑**1=Culvert** (Barrel Controls 2.35 cfs @ 6.73 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1P: Wet Pond



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 2P: Underground Detention

[79] Warning: Submerged Pond 5P Primary device # 1 INLET by 1.43'

Inflow Area = 125,017 sf, 68.99% Impervious, Inflow Depth = 4.40" for 100-Year event
Inflow = 14.36 cfs @ 12.07 hrs, Volume= 45,891 cf
Outflow = 4.75 cfs @ 12.33 hrs, Volume= 45,851 cf, Atten= 67%, Lag= 15.6 min
Primary = 4.75 cfs @ 12.33 hrs, Volume= 45,851 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 581.93' @ 12.33 hrs Surf.Area= 7,226 sf Storage= 14,839 cf

Plug-Flow detention time= 54.1 min calculated for 45,851 cf (100% of inflow)
Center-of-Mass det. time= 52.3 min (852.4 - 800.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	578.67'	6,515 cf	**20.50'W x 352.50'L x 3.50'H Field A** 25,292 cf Overall - 9,004 cf Embedded = 16,287 cf x 40.0% Voids
#2A	579.17'	9,004 cf	**ADS_StormTech SC-740 +Cap** x 196 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 196 Chambers in 4 Rows
		15,519 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	578.67'	**12.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.67' / 578.30' S= 0.0037 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.75 cfs @ 12.33 hrs HW=581.93' (Free Discharge)
1=Culvert (Barrel Controls 4.75 cfs @ 6.05 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention - Chamber Wizard Field A

Chamber Model = ADS_StormTechSC-740 +Cap (ADS StormTech®SC-740 with cap length)
Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf
Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

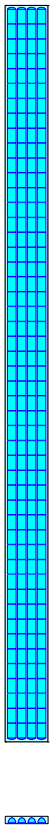
49 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 350.50' Row Length +12.0" End Stone x 2 = 352.50' Base Length
4 Rows x 51.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 20.50' Base Width
6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

196 Chambers x 45.9 cf = 9,004.2 cf Chamber Storage

25,291.6 cf Field - 9,004.2 cf Chambers = 16,287.4 cf Stone x 40.0% Voids = 6,515.0 cf Stone Storage

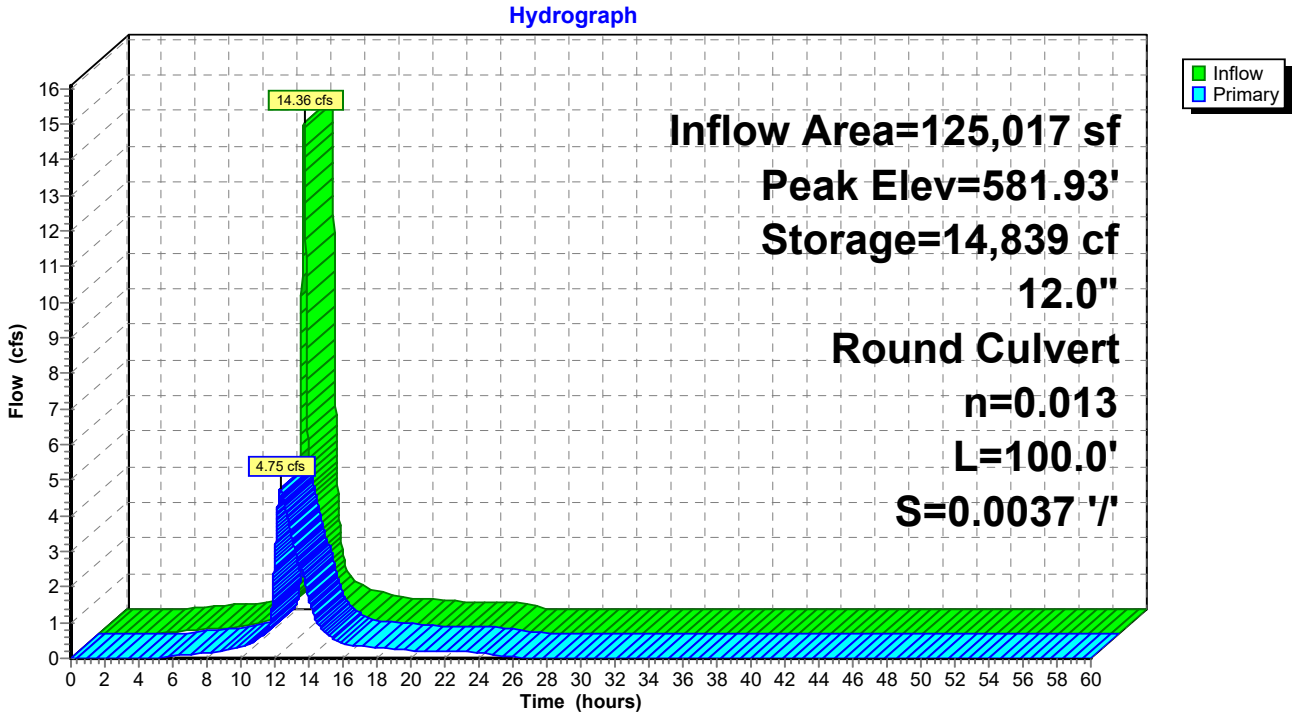
Chamber Storage + Stone Storage = 15,519.2 cf = 0.356 af
Overall Storage Efficiency = 61.4%
Overall System Size = 352.50' x 20.50' x 3.50'

196 Chambers
936.7 cy Field
603.2 cy Stone



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 5P: Bio Area #2

Inflow Area = 10,890 sf, 60.00% Impervious, Inflow Depth = 4.21" for 100-Year event
Inflow = 1.78 cfs @ 11.96 hrs, Volume= 3,817 cf
Outflow = 1.61 cfs @ 11.99 hrs, Volume= 3,817 cf, Atten= 10%, Lag= 1.9 min
Primary = 1.61 cfs @ 11.99 hrs, Volume= 3,817 cf
Routed to Pond 2P : Underground Detention

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.74' @ 11.99 hrs Surf.Area= 1,673 sf Storage= 825 cf

Plug-Flow detention time= 202.8 min calculated for 3,816 cf (100% of inflow)
Center-of-Mass det. time= 203.0 min (984.2 - 781.1)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

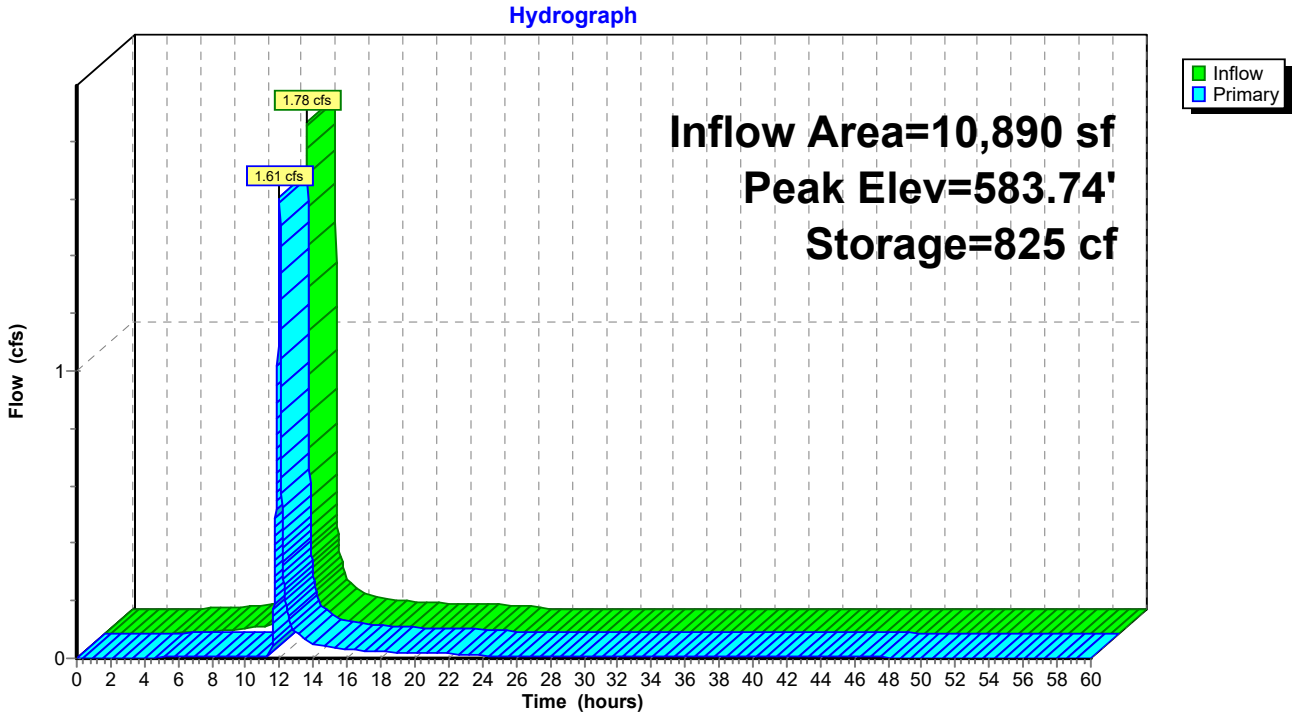
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	875	0	0
583.50	1,100	494	494
583.75	1,700	350	844

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**8.0" Round Culvert** L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 579.95' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=1.61 cfs @ 11.99 hrs HW=583.74' (Free Discharge)
└**1=Culvert** (Passes 1.61 cfs of 2.16 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 1.60 cfs @ 1.60 fps)
└**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 5P: Bio Area #2



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 3P: FOREBAY Water Quality in Detention Basin

[43] Hint: Has no inflow (Outflow=Zero)

Volume	Invert	Avail.Storage	Storage Description
#1	575.00'	2,185 cf	**Detention Pond (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
575.00	220	0	0
576.00	360	290	290
577.00	530	445	735
578.00	720	625	1,360
579.00	930	825	2,185

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 4P: PERMANENT POOL Water Quality in Detention Basin

[43] Hint: Has no inflow (Outflow=Zero)

Volume	Invert	Avail.Storage	Storage Description
#1	573.00'	4,155 cf	**Detention Pond (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
573.00	200	0	0
574.00	330	265	265
575.00	480	405	670
576.00	650	565	1,235
577.00	850	750	1,985
578.00	1,080	965	2,950
579.00	1,330	1,205	4,155

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Green Infrastructure & Water Quality Calculations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Proposed Multi-Family Project - 480 Dodge Road
Town of Amherst, Erie County, New York

WATER QUALITY REQUIRED FOR PROPOSED DEVELOPMENT AREA Area, Acres = 5.17
(Note: Reference Chap. 9 NYSDEC Stormwater Design Manual)

"Redevelopment Activity", Acres = 2.30 "New development", Acres = 2.87
(existing, disturbed impervious area)

Total proposed impervious, Acres = 3.35 Adjusted impervious, Acres = 1.63
"New" impervious, Acres = 1.05 (25% redevelopment, 100% new development)

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

Where:	P=90% Rainfall Event Number	P= 1
	Rv= 0.05+0.009*(I)	Rv= 0.33
	IC=Impervious Cover, Acres	IC= 1.63
	I=Impervious Cover (%)	I= 32
	A=Runoff Area, Acres	A= 5.17

WQv (ac-ft)= 0.143
WQv (cf)= 6,229

RRv PROVIDED FOR PROPOSED DEVELOPMENT AREA (See NYSDEC worksheets)

Min. RRv Req'd, cf = 1,124
Min. RRv Req'd, ac-ft = 0.026

	WQv, cf	RRv, cf
RRv, Bioretention Areas	115	1,128
WQv, Detention Pond	6,340	0
WQv, Treatment Unit	2,991	0
TOTAL, cf	9,446	1128
TOTAL, ac-ft	0.217	0.026

WQ & RR SUMMARY (ac-ft):

TOTAL WATER QUALITY PROVIDED FOR PROPOSED DEVELOPMENT AREA 0.243

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)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Version 1.7
Last Updated: 10/02/2015

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

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

Design Point:	1	
P=	1.00	*inch*

Breakdown of Subcatchments

Catchment Number	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	Description
1	2.00	0.51	26%	0.28	2,029	
2	2.62	0.77	29%	0.31	2,991	
3	0.30	0.20	67%	0.65	708	
4	0.25	0.15	60%	0.59	535	
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	5.17	1.63	32%	0.33	**6,264**	**Subtotal 1**
Total	5.17	1.63	32%	0.33	**6,264**	**Initial WQv**

Identify Runoff Reduction Techniques By Area

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

Recalculate WQv after application of Area Reduction Techniques

	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Runoff Coefficient Rv	WQv *(ft^3)*
"<<Initial WQv"	5.17	1.63	32%	0.33	6,264
Subtract Area	0.00	0.00			
WQv adjusted after Area Reductions	**5.17**	**1.63**	32%	0.33	6,264
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	5.17	1.63	32%	0.33	**6,264**
WQv reduced by Area Reduction techniques					0

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Minimum RRv

Enter the Soils Data for the site		
Soil Group	Acres	S
A		55%
B		40%
C		30%
D	**5.17**	20%
Total Area	5.17	

Calculate the Minimum RRv		
S =	**0.20**	
Impervious =	1.63	*acre*
Precipitation	1	*in*
Rv	0.95	
Minimum RRv	**1,124**	***ft3***
	0.03	af

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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:	1

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**
3	0.30	0.20	0.67	0.65	707.85	1.00	
Enter Impervious Area Reduced by Disconnection of Rooftops			67%	0.65	708	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						*ft^3*	

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

Calculate the Minimum Filter Area				
		Value	Units	Notes
WQv		708	*ft^3*	
Enter Depth of Soil Media	*df*	1.5	*ft*	*2.5-4 ft*
Enter Hydraulic Conductivity	*k*	0.5	*ft/day*	
Enter Average Height of Ponding	*hf*	0.5	*ft*	*6 inches max.*
Enter Filter Time	*tf*	2	*days*	
Required Filter Area	***Af***	**531**	***ft^2***	

Determine Actual Bio-Retention Area			
Filter Width	8	*ft*	
Filter Length	139	*ft*	
Filter Area	1112	*ft^2*	
Actual Volume Provided	1483	*ft^3*	

Determine Runoff Reduction				
Is the Bioretention contributing flow to another practice?			Select Practice	
RRv	593			
RRv applied	**593**	***ft^3***	***This is 40% of the storage provided or WQv whichever is less.***	
Volume Treated	115	*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 √	OK		*Check to be sure Area provided ≥ Af*	

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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:	1

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**
4	0.25	0.15	0.60	0.59	535.43	1.00	
Enter Impervious Area Reduced by Disconnection of Rooftops			60%	0.59	535	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						*ft^3*	

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

Calculate the Minimum Filter Area				
		Value	Units	Notes
WQv		535	*ft^3*	
Enter Depth of Soil Media	*df*	1.5	*ft*	*2.5-4 ft*
Enter Hydraulic Conductivity	*k*	0.5	*ft/day*	
Enter Average Height of Ponding	*hf*	0.5	*ft*	*6 inches max.*
Enter Filter Time	*tf*	2	*days*	
Required Filter Area	***Af***	**402**	***ft^2***	

Determine Actual Bio-Retention Area			
Filter Width	20	*ft*	
Filter Length	55	*ft*	
Filter Area	1100	*ft^2*	
Actual Volume Provided	1467	*ft^3*	

Determine Runoff Reduction				
Is the Bioretention contributing flow to another practice?			Select Practice	
RRv	587			
RRv applied	**535**	***ft^3***	***This is 40% of the storage provided or WQv whichever is less.***	
Volume Treated	0	*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 √	OK		*Check to be sure Area provided ≥ Af*	

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN

STORMWATER POLLUTION PREVENTION PLAN
for
CONSTRUCTION ACTIVITIES

At

Multi-Family Project
480 Dodge Road
Town of Amherst, Erie County, New York

Prepared for

The Green Organization

6465 Transit Road
East Amherst, NY 14051

Prepared by

Carmina Wood Design

80 Silo City Row, Suite 100
Buffalo, NY 14203

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

March 2023
rev. May 2023
rev. December 2023
rev. January 2024
rev. January 2025
rev. April 2025
rev. August 2025



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Table of Contents (con't)

Appendix A Site Location Map

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-0-25-001

Appendix F Forms

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

Appendix G NYSDEC Notice of Termination (NOT)

Appendix H Construction Documents

Appendix I Soils Information

Appendix J Standard Erosion Control Details

Appendix K NYSDEC Stormwater Management Inspection Lists

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

101 SCOPE

A. **PURPOSE:** The Green Organization (TGO) 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 TGO; and/or liquidated damages. This section provides a descriptive explanation of TGO's Storm Water Pollution Prevention Program and required Contractor participation.

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

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

Approval from a regulated, traditional land use control MS4:

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

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

C. **RESPONSIBILITIES OF THE CONTRACTOR:** The Contractor shall manage the discharge of storm water from the site in accordance with the NYSDEC General Permit for Construction Activities conditions and the following provisions of this section. The Operator shall be responsible for

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

conducting the storm water management practices in accordance with the permit. The Contractor shall be responsible for providing **qualified inspector**s to conduct the inspections required by the SWPPP. The Contractor shall be responsible for any enforcement action taken or imposed by federal, state, or local agencies, including the cost of fines, construction delays, and remedial actions resulting from the Contractor's failure to comply with the permit provisions. It shall be the responsibility of the Contractor to make any changes to the SWPPP necessary when the Contractor or any of his subcontractors elects to use borrow or fill or material storage sites, either contiguous to or remote from the construction site, when such sites are 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>**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

B. **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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

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

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

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

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

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

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

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

   c. For construction sites where soil disturbance activities have been **temporarily suspended (e.g. winter shutdown) and temporary stabilization measures 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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

under the jurisdiction of a regulated, traditional land use control MS4, the MS4 (provided the MS4 is not the **owner or operator** of the construction activity) in writing prior to reducing the frequency of inspections.

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

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

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;

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

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

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

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

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

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

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

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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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 level 1 inspection and document all site conditions to be signed off on by a licensed professional engineer ensuring all installed catch basins are free of any debris or accumulation of sediment. This inspection report shall be submitted along with the NOT to the Department. This inspection shall be Final payment and/or the release of retainage will be withheld until all provisions of the SWPPP have been submitted, completed and accepted by the Operator.

102 PROJECT NAME AND LOCATION

Multi-Family Project

480 Dodge Road

Town of Amherst, County of Erie, New York

Easting: 192510

Northing: 4770449

Estimated Area of Site ≈ 5.17 acres

Estimated Area to be disturbed by Construction Activities ≈ 5.17 acres

A general location map is included as Appendix A.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

103 OPERATOR'S NAME AND ADDRESS

The Green Organization

6465 Transit Road

East Amherst, NY 14051

Contact Person: Matt Green

Telephone: 716-402-2004

104 PROJECT DESCRIPTION

This project is a redevelopment of a 5.17 acre site located on Dodge Road in the Town of Amherst. Construction will consist of two three story multi-family buildings and five townhouse buildings with attached garages totaling 108 units, detached garage buildings, and associated utility, lighting and landscaping improvements. Currently the site is developed and utilized as a landscape nursery. All existing structures on site are to be demolished. The proposed site development area to be disturbed for this project is approximately 5.17 acres when construction is completed.

Soil disturbing activities will include:

A. Construction of temporary construction exit points

B. Clearing & grubbing of the site within disturbance limits

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

D. Installation of storm sewer pipes and inlets

E. Construction of utilities

F. Construction of curb and parking lot

G. Final grading & landscaping

H. Construction of buildings

This project is owned by The Green Organization and will be developed by the same. The work area consists of approximately 5.17 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.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

105 RUNOFF COEFFICIENT, SOILS, AND RAINFALL INFORMATION

The initial runoff curve number for the pre-construction site is "CN" = 89. The post-construction runoff curve number for the site will be "CN" = 92. The site is 5.17 acres of which approximately 5.17 acres will be disturbed by construction activities.

See soils information located in Appendix I.

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

106 WATERS

The runoff generated from this site is believed to ultimately discharge to Ellicott Creek.

107 INDIAN COUNTRY LANDS

This project is not located on Indian Lands.

108 ENDANGERED AND THREATENED SPECIES

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

109 CRITICAL HABITAT

See section 108 above.

110 HISTORIC PLACES

The assessed property is shown on the NYSHPO map as an archeologically sensitive area.

111 WETLANDS AND/OR OTHER SURFACE WATERS

No wetlands are located on 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.

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.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

C. Clear & Grub site

D. Installation of underground detention basin

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

The existing site currently sheet drains in multiple directions, either towards the center of the site to an existing ditch which drains to the existing storm sewer system along Dodge Road, or north towards the Thruway property directly adjacent to the project site.

Stormwater runoff collected onsite as a result of the proposed development will be routed through the proposed storm sewer system consisting of bioretention areas, underground detention system and a **wet** detention basin connected by a series of manholes, catch basins, yard drains and smooth interior HDPE pipe. The bioretention areas on site are designed to provide 100% of the required runoff reduction volume (RRv). The soils in the vicinity of the bioretention areas are mainly USDA hydrologic group 'D' and therefore the system will be installed with underdrains per NYSDEC requirements. The bioretention areas will consist of 6" perforated HDPE underdrains in 12" of drainage gravel, followed by filter fabric and then finally 18" minimum of planting soil. Overflow yard drains will be installed to allow 6" maximum ponding for RRv treatment. Stormwater detention is required per NYSDEC standards and specifications. The underground detention field was designed to consist of ADS StormTech SC-740 chambers to allow for stormwater to be temporarily stored and discharged at a

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

controlled rate. The chamber system is surrounded by stone and wrapped in geotextile fabric. Note that StormTech is one type of "chamber" system and there are several other by different manufacturers that may be used pending approval by the design engineer. Site specific shop drawings will be required from the contractor for approval by the engineer prior to construction of the specific system selected. An 8" outlet control pipe will be provided downstream of the underground detention field underdrain pipe and header pipe **to include a water quality treatment unit**. Discharge from the outlet pipe of the underground detention system will outlet to an existing 12" culvert pipe which crossed Dodge Road and discharges to the existing storm sewer system along the south side of Dodge Road. A **wet** detention pond will attenuate stormwater runoff generated in the north and west portions of the project **using** an 8" outlet control pipe to attenuate proposed runoff to required existing conditions prior to discharge off site. Discharge from the **wet** detention basin will outlet to an existing swale in the northwest corner of the property.

Chapter 9 of the NYSDEC Stormwater Management Design Manual details design requirements for redevelopment projects, which this project is categorized as. Runoff reduction is required for this project since the proposed impervious area (3.35 ac) is greater than the existing impervious area (2.30 ac). Water Quality Volume treatment is also required since there is a proposed increase in impervious area (1.05 ac). Runoff reduction volume (RRv), water quality volume (WQv) and stormwater volume attenuation for the site is designed in accordance with Chapter 4 of the NYSDEC Stormwater design manual. The bioretention areas are provided as a "green infrastructure" practice to provide runoff reduction and water quality treatment to meet the Chapter 4 requirements for the currently undeveloped areas. Runoff from the site was looked at as a whole for the calculation of volume attenuation requirements. The proposed underground detention field and dry detention basin is designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates, as well as the below stated Town stormwater runoff requirements.

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

1. Site planning to preserve natural features and reduce impervious cover.
    - Unit and parking counts have been reduced compared to initial conceptual plans, reducing the amount of impervious coverage on the project site.
2. Calculation of Water Quality Volume (WQv=RRv) for site.
    - See Stormwater Drainage Calculations.
3. Incorporation of Green Infrastructure techniques and standard SMPs with Runoff Reduction Volume (RRv) capacity.
    - Bioretention areas were incorporated into the site design to provide required RRv for the development. See Stormwater Drainage Calculations.
4. Use of standard SMPs where applicable, to treat the portion of water quality volume not addressed by green infrastructure techniques and standard SMPs with RRv capacity.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

- Since the provided RRv and WQv provided is equal to the WQv required, use of standard SMPs is not applicable.

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

- See Stormwater Drainage Calculations.

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

Water Quality & Runoff Reduction Volume:

The NYSDEC requires reduction of the total water quality volume by green infrastructure techniques and SMP's to replicate pre-development hydrology. Bioretention areas were incorporated into the site layout to provide the required RRv for contributing WQv runoff area for the development. The bioretention areas will provide 1,128 cf RRv. The minimum RRv required is 1,124 cf. The wet pond and treatment structure will treat 9,331 cf of WQv. The required WQv = 6,264 cf. The sum of the WQv treated and the RRv is greater than the required WQv, therefore the practice is acceptable.

Channel Protection:

The NYSDEC requires that 24-Hour extended detention be provided for the proposed 1-year storm event. A volume of 2,344 cf is accommodated in the wet detention basin at elevation 580.39 and a volume of 3,629 cf is accommodated in the underground detention basin at elevation 579.54.

Overbank Flooding:

The NYSDEC requires that the 10-year proposed storm event be attenuated with detention and that the outlet be restricted to the 10-year existing storm event. A volume of 5,751 cf is accommodated in the wet detention basin at elevation 580.92 and a volume of 7,653 cf is accommodated in the underground detention basin at elevation 580.24.

Extreme Storm Protection:

The NYSDEC requires that the 100-year proposed storm event be attenuated with detention and that the outlet be restricted to the 100-year existing storm event. A volume of 12,683 cf is accommodated in the wet detention basin at elevation 581.88 and a volume of 14,839 cf is accommodated in the underground detention basin at elevation 581.93.

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

113 OTHER CONTROLS

113.1 OFF-SITE VEHICLE TRACKING

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

113.2 EXCAVATION SPOIL MATERIALS

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

113.3 DUST CONTROL

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

A. Frequent watering of excavation and fill areas.

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

113.4 WASTE DISPOSAL

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

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

113.5 SANITARY WASTE

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

113.6 CONCRETE WASTE FROM CONCRETE TRUCKS

A. Emptying of excess unhardened concrete and/or washout from concrete delivery trucks will be allowed on the job site, but in either (1) specifically designated diked areas which have been prepared to prevent contact between concrete and/or washout and

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

storm water which will be discharged from the site or (2) in locations where waste concrete will be poured into forms to make rip-rap or other useful concrete products.

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

113.7 HAZARDOUS SUBSTANCES & HAZARDOUS WASTE

A. All hazardous waste materials will be disposed of by the Contractor in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. Site personnel will be instructed in these practices by the job superintendent, who will also be responsible for seeing these practices are followed. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the 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.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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.

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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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 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,

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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
- Soil stabilization additives

118.2 MATERIAL MANAGEMENT PRACTICES

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

properly disposed of according to manufacturer's instructions or state and federal regulations.

4. Concrete Wastes

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

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

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

E. Solid and Construction Wastes

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

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

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

F. Sanitary Wastes

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

G. Contaminated Soils

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

118.3 SPILL PREVENTION AND RESPONSE PROCEDURES

The Contractor will train all personnel in the proper handling and cleanup of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with storm water discharges. If such contact occurs, the storm water discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job site superintendent to properly train all personnel in spill prevention and clean up procedures.

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

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

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

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

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.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

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

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

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

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

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

119 CONTROL OF NON-STORM WATER DISCHARGES

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

A. Discharges from firefighting activities.

B. Fire hydrant flushings (see note below)

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.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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 area shall match the frequencies listed on the "Bioretention Operation, Maintenance and Management Inspection Checklist" in Appendix K of the SWPPP.

The proposed catch basins, as per section 115, shall be inspected 4 times per year for removal of floatable debris. Any silt buildup over 6" in depth shall be removed and disposed of properly off-site. The frequency of inspections for the underground detention system should be a minimum of once every 6 months, with jetting and vactoring to be conducted annually (or as needed as observed during inspections). Refer to manufacturer recommendations for additional maintenance information.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix A

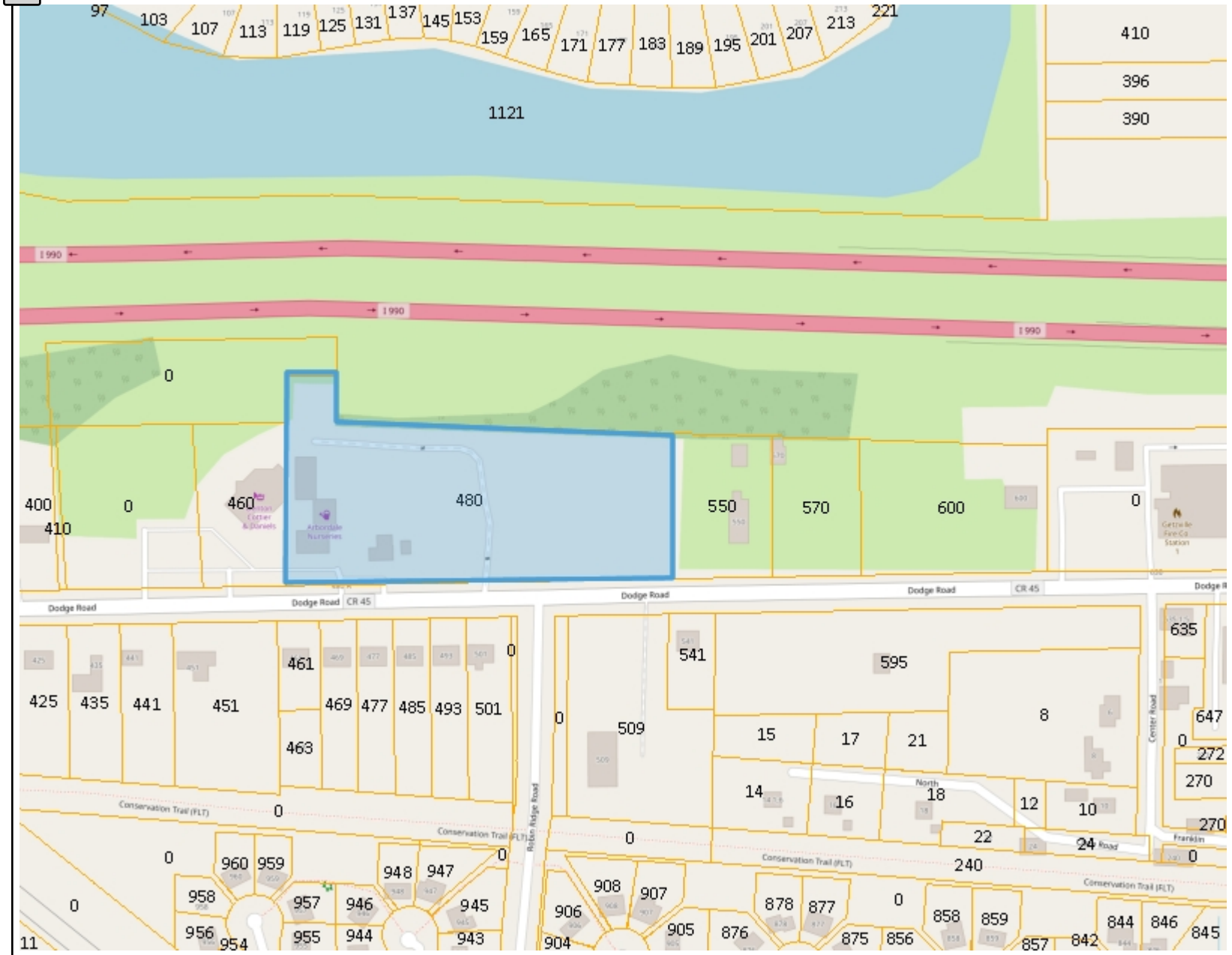
Site Location Map

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Erie County On-Line Mapping Application





Legend

- Parcels

0 0.07 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

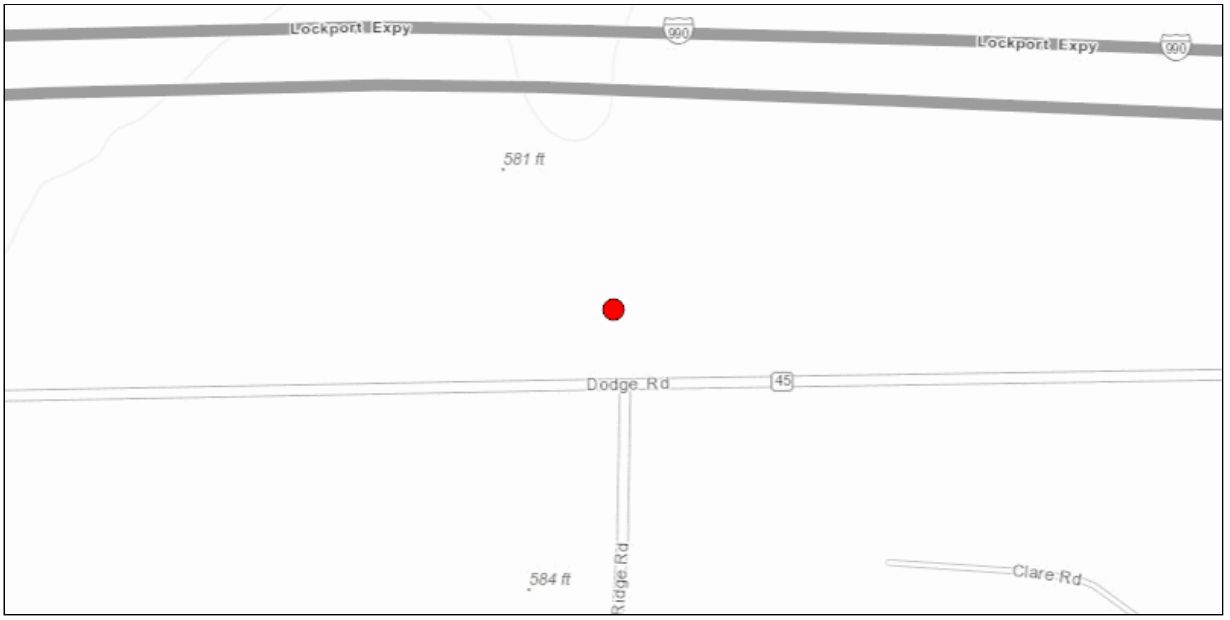
THIS MAP IS NOT TO BE USED FOR NAVIGATION

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: 4,514

Stormwater Interactive Map



The coordinates of the point you clicked on are:

UTM 18	**Easting:**	192510.630	**Northing:**	4770449.115
Longitude/Latitude	**Latitude:**	43.025	**Longitude:**	-78.774

The approximate address of the point you clicked on is:
486-498 Dodge Rd, Getzville, New York, 14068

County: Erie
Town: Amherst
USGS Quad: TONAWANDA EAST

DEC Administrative Boundaries

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

MS4 GP Automatically Designated Areas

UA Name: Buffalo
Municipality: AMHERST
SWIS: 142200
Regulated: Automatic

MS4 GP Additionally Designated Area (for MCM 4 and 5)

UA Name: undefined
Municipality: AMHERST
SWIS: 142200
Regulated: undefined

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix B

NYSDEC Notice of Intent (NOI)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NOTICE OF INTENT

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

NYR _____ (for DEC use only)

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

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

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
The Green Organization

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

Owner/Operator Contact Person First Name
Matt

Owner/Operator Mailing Address
6465 Transit Road

City
East Amherst

State
NY

Zip
14051 - ____

Phone (Owner/Operator)
716 - 402 - 2004

Fax (Owner/Operator)
___ - ___ - ____

Email (Owner/Operator)
matt@thegreenorganization.com

FED TAX ID
__ - _____ (not required for individuals)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Site Information

Project/Site Name

Multi-Family Project

Street Address (NOT P.O. BOX)

480 Dodge Road

Side of Street

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

City/Town/Village (THAT ISSUES BUILDING PERMIT)

Amherst

State: NY

Zip: 14068-

County: Erie

DEC Region: 9

Name of Nearest Cross Street

Robin Ridge Road

Distance to Nearest Cross Street (Feet)

0

Project In Relation to Cross Street

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

Tax Map Numbers
Section-Block-Parcel

41.06-1-8.1

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)

-78.774

Ex. -73.749

Y Coordinates (Northing)

43.025

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-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

Pre-Development Existing Land Use

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

Post-Development Future Land Use

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

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

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

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
5.2	5.2	2.3	3.3

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

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

A	B	C	D
%	%	%	100 %

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

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

Start Date	End Date
09/01/2023	09/01/2025

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

Erie County Department of Public Works

Highway Department

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-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

SWPPP Preparer
Carmina Wood Design

Contact Name (Last, Space, First)
Wood Christopher

Mailing Address
487 Main Street, Suite 500

City
Buffalo

State NY Zip 14203 -

Phone 716 - 842 - 3165

Fax - -

Email
cwood@carminawooddesign.com

SWPPP Preparer Certification

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

First Name Christopher **MI**

Last Name Wood



Date 03 / 20 / 2023

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

Temporary Structural

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

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

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

Permanent Structural

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

Other

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Post-construction Stormwater Management Practice (SMP) Requirements

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

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

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

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

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

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

Total WQv Required

0.026 **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-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

	Total Contributing Area (acres)		Total Contributing Impervious Area (acres)
RR Techniques (Area Reduction)			
○ Conservation of Natural Areas (RR-1)		and/or	
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or	
○ Tree Planting/Tree Pit (RR-3)		and/or	
○ Disconnection of Rooftop Runoff (RR-4)		and/or	
RR Techniques (Volume Reduction)			
○ Vegetated Swale (RR-5)			
○ Rain Garden (RR-6)			
○ Stormwater Planter (RR-7)			
○ Rain Barrel/Cistern (RR-8)			
○ Porous Pavement (RR-9)			
○ Green Roof (RR-10)			
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			
○ Infiltration Basin (I-2)			
○ Dry Well (I-3)			
○ Underground Infiltration System (I-4)			
○ Bioretention (F-5)			0.35
○ Dry Swale (O-1)			
Standard SMPs			
○ Micropool Extended Detention (P-1)			
○ Wet Pond (P-2)			1.6
○ 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-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

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

Name: StormPro V1 Treatment Unit

Manufacturer: ENV21

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

0.026 **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

0.026 **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-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

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

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

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

WQv Provided

0.215 **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).

0.241

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

0.149 **acre-feet**

CPv Provided

0.149 **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

13.87 **CFS**

Post-development

4.45 **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

26.60 **CFS**

Post-development

7.10 **CFS**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

The Green Organization

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.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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: Green

Owner/Operator Signature: Matthew J. Green

Date: 03 / 20 / 2023

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix C

MS4 SWPPP Acceptance Form

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

MS4 SWPPP Acceptance Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information	
1. Owner/Operator Name:	The Green Organization
2. Contact Person:	Matt Green
3. Street Address:	6465 Transit Road
4. City/State/Zip:	East Amherst, NY 14051
II. Project Site Information	
5. Project/Site Name:	Multi-Family Development
6. Street Address:	480 Dodge Road
7. City/State/Zip:	Getzville, NY 14068
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	
9. Title/Position:	
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4 Operator:	
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Street Address:	
14. City/State/Zip:	
15. Telephone Number:	

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

MS4 SWPPP Acceptance Form - continued

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

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in section II. of this form has been reviewed and meets the substantive requirements in the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP). Note: The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 Operator does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name[1]:

Title/Position:

Signature:

Date:

VI. Additional Information

[1] Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.

(NYSDEC - MS4 SWPPP Acceptance Form - January 2025)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix D

Engineer's Report

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD
DESIGN

ENGINEER'S REPORT

for

Multi-Family Project
480 Dodge Road
Town of Amherst, Erie County, New York

Prepared for

The Green Organization

6465 Transit Road
East Amherst, NY 14051

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

March 2023
rev. December 2023
rev. January 2025
rev. April 2025
rev. August 2025



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Table of Contents

Written Engineer's Report

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

Appendices

Appendix A Sanitary Sewer and Water Demand Calculations

- Downstream Sewer Capacity Analysis

Appendix B Storm Sewer System Drainage Calculations

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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Section 1 - Location & Description

This project is a redevelopment of a 5.17 acre site located on Dodge Road in the Town of Amherst. Construction will consist of two three story multi-family buildings and six townhouse buildings with attached garages totaling 108 units, detached garage buildings, and associated utility, lighting and landscaping improvements. Currently the site is developed and utilized as a landscape nursery. All existing structures on site are to be demolished. The proposed site development area to be disturbed for this project is approximately 5.17 acres when construction is completed.

Section 2 - Water Service

Water service for the multi-family development will be tapped off the existing 8" ECWA water main on the south side of Dodge Road. The service will be a 6" Class 52 DI combined water service to cross Dodge Road, then continue into an interior utility room of the clubhouse building where the 6" meter and RPZ will be installed. Proper heat and lighting will be provided to the enclosure, drainage due to testing or failure of the RPZ will be to the outside grade. The owner will be responsible for keeping the drainage ports clear of snow and debris. Water inside the multi-family buildings and clubhouse will be used for typical domestic uses.

The three story multi-family buildings are to be sprinklered, interior fire protection system to be designed by others. One private hydrant will be installed on site and two existing public hydrants along Dodge Road will ensure fire hose coverage not exceeding 600' for sprinklered buildings and 400' for non-sprinklered buildings.

Domestic Summary:	
Peak Operating Demand:	90.75 gpm
Water Main:	8" on Dodge Road
Static Pressure:	100 psi (ECWA)
Friction Loss:	0.0 psi
Loss through meter/RPZ:	13.0 psi
Elevation Loss:	0.0 psi
Pressure after RPZ:	87.0 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 multi-family development will have a private 8" SDR-35 PVC sanitary lateral at 0.4% minimum slope route through the site. All multi-family, clubhouse and townhouse buildings will connect to this 8" private sewer via a 6" SDR-35 PVC sanitary lateral at 2.0% minimum. The private 8" sanitary sewer will connect the nearest public sanitary sewer manhole along the western boundary of the project site and a new public sanitary sewer manhole will be installed on the project site to allow for the connection to the existing public sanitary sewer. This public manhole will be located in a 30'x30' easement to the Town of Amherst.

Design Parameters

1-bedroom unit:	110 gal/day/units x 36 units = 3,960 gpd
2-bedroom unit:	220 gal/day/units x 72 units = 15,840 gpd
	Total = 19,800 gpd

19,800 gpd * 4.15 = 82,163 gpd *use peaking factor of 4.15

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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

Downstream sewer capacity analysis report is included in Appendix A of this report.

Section 4 - Storm Sewer Service

The existing site currently sheet drains in multiple directions, either towards the center of the site to an existing ditch which drains to the existing storm sewer system along Dodge Road, or north towards the Thruway property directly adjacent to the project site.

Stormwater runoff collected onsite as a result of the proposed development will be routed through the proposed storm sewer system consisting of bioretention areas, underground detention system and a wet detention basin connected by a series of manholes, catch basins, yard drains and smooth interior HDPE pipe. The bioretention areas on site are designed to provide 100% of the required runoff reduction volume (RRv). The soils in the vicinity of the bioretention areas are mainly USDA hydrologic group 'D' and therefore the system will be installed with underdrains per NYSDEC requirements. The bioretention areas will consist of 6" perforated HDPE underdrains in 12" of drainage gravel, followed by filter fabric and then finally 18" minimum of planting soil. Overflow yard drains will be installed to allow 6" maximum ponding for RRv treatment. Stormwater detention is required per NYSDEC standards and specifications. The underground detention field was designed to consist of ADS StormTech SC-740 chambers to allow for stormwater to be temporarily stored and discharged at a controlled rate. The chamber system is surrounded by stone and wrapped in geotextile fabric. Note that StormTech is one type of "chamber" system and there are several other by different manufacturers that may be used pending approval by the design engineer. Site specific shop drawings will be required from the contractor for approval by the engineer prior to construction of the specific system selected. An 8" outlet control pipe will be provided downstream of the underground detention field underdrain pipe and header pipe to include a water quality treatment unit. Discharge from the outlet pipe of the underground detention system will outlet to an existing 12" culvert pipe which crossed Dodge Road and discharges to the existing storm sewer system along the south side of Dodge Road. A wet detention pond will attenuate stormwater runoff generated in the north and west portions of the project using an 8" outlet control pipe to attenuate proposed runoff to required existing conditions prior to discharge off site. Discharge from the wet detention basin will outlet to an existing swale in the northwest corner of the property.

Chapter 9 of the NYSDEC Stormwater Management Design Manual details design requirements for redevelopment projects, which this project is categorized as. Runoff reduction is required for this project since the proposed impervious area (3.35 ac) is greater than the existing impervious area (2.30 ac). Water Quality Volume treatment is also required since there is a proposed increase in impervious area (1.05 ac). Runoff reduction volume (RRv), water quality volume (WQv) and stormwater volume attenuation for the site is designed in accordance with Chapter 4 of the NYSDEC Stormwater design manual. The bioretention areas are provided as a "green infrastructure" practice to provide runoff reduction and water quality treatment to meet the Chapter 4 requirements for the currently undeveloped areas. Runoff from the site was looked at as a whole for the calculation of volume attenuation requirements. The proposed underground detention field and wet detention basin is designed to accommodate the 1-year through 100-year storm events controlling the offsite runoff rate to less than the existing runoff rates, as well as the below stated Town stormwater runoff requirements.

<u>Town of Amherst Requirement:</u>
The Town of Amherst requires that the 25-year proposed storm event be attenuated with detention and that the outlet flowrate be restricted to the 10-year existing storm event. Since this project proposed two separate stormwater outlet points, volume attenuation is accomplished in both the dry detention basin and the underground detention system as shown by the below stormwater runoff summary tables.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Underground Detention Basin Summary:
ADS StormTech SC-740
Top of chambers = 581.67
Bottom of chambers = 579.17
Bottom of stone = 578.67
100-year storm storage volume = 14,839 cf @ 581.93

Water Quality Summary:
WQv req'd = 6,264 cf (0.144 ac-ft)
RRv min. req'd = 1,124 cf (0.026 ac-ft)
RRv provided - bioretention areas = 1,128 cf (0.026 ac-ft)
WQv provided – bioretention areas = 115 cf (0.003 ac-ft)
WQv provided – wet pond = 6,340 cf (0.146 ac-ft)
WQv provided – treatment structure = 2,991 cf (0.069 ac-ft)
Total RRv + WQv provided = 115 cf + 1,128 cf + 6,340 cf + 2,991 cf = 10,574 cf (0.243 ac-ft)

Bioretention: 100% of minimum post-development Runoff Reduction volume (RRv)
Area: 2,180 sf (total)
Bottom Elevation: 583.00

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

Runoff Summary (Culvert/Dodge Road):

Event	Ex. Runoff (cfs)*	Pro. Runoff (cfs)**	Result (cfs)
1-year	5.02	1.64	-3.38
10-year	10.93	2.84	-8.09
25-year	14.28	3.45	-10.83
100-year	20.94	4.75	-16.19

* Existing runoff is the summation of the runoff flowrate from subcatchments 2S and 4S shown Appendix B of this report.

** Proposed runoff flowrate is the rate controlled by the 8" outlet pipe from the underground detention basin which discharges to the existing 12" culvert pipe, which crosses Dodge Road to an existing storm drainage system along the south side of Dodge Road.

Runoff Summary (Ditch/Thruway):

Event	Ex. Runoff (cfs)*	Pro. Runoff (cfs)**	Result (cfs)
1-year	1.39	1.01	-0.38
10-year	2.94	1.61	-1.33
25-year	3.85	1.89	-1.96
100-year	5.66	2.35	-3.31

* Existing runoff is the summation of the runoff flowrate from subcatchment 1S and 3S shown Appendix B of this report.

** Proposed runoff flowrate is the rate controlled by the 8" outlet pipe from the wet detention basin which discharges to the existing along the northwest corner of the project site.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix A

Sanitary Sewer and Water Demand Calculations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN
487 MAIN STREET, SUITE 500
BUFFALO, NEW YORK, 14203
(716) 842-3165
FAX (716) 842-0263

Project No.: 22.296 Date: 3/20/2023
Project Name: Multi-Family Development rev. 8/22/25
Project Address: 480 Dodge Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 2

Sanitary Sewage Demand Calculations:

Proposed Towhouses

110	gal/d/unit	x	36 units	=	3,960	gpd	*use 110 gallons per unit per day (1-bdrm)
220	gal/d/unit	x	72 units	=	15,840	gpd	*use 220 gallons per unit per day (2-bdrm)

Total Site Sanitary Demand: = 19,800 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 19,800 gpd / 100 gpcd = 198 per capita

Population (P) = 198 people

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

Peaking Factor = 4.15

Peak Sanitary Demand = 19,800 x 4.15 = 82,163 gpd
= 0.082 MGD
= 0.127 cfs

Required Infiltration and Inflow Mitigation:

Peak Sanitary Flow = 82,163 gpd = 57.06 gpm

4:1 offset flow per NYSDEC requirements = 57.06 x 4 = 228.23 gpm req'd

Mitigation Credit = $250 / gpm

Mitigation Agreement Amount = $57,057.36

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN
487 MAIN STREET, SUITE 500
BUFFALO, NEW YORK, 14203
(716) 842-3165
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Project No.: 22.296 Date: 3/20/2023
Project Name: Multi-Family Development rev. 8/22/25
Project Address: 480 Dodge Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 2 of 2

1.a

Water Demand Calculations (domestic):

Proposed Multi-Family

19,800 gpd x 1.1 = 21,780 gpd *use 110% of sewage demand

*use 1.8 peaking factor and assume a 12 hour day

21,780 gpm x 1day/12hr x 1hr/60min = 30.25 gpm

30.25 gpm x 3.0 = 90.75 gpm Q_{peak}

Headlosses:

Q_{peak} = 90.75 gpm
Pipe = 6 inch Ductile Iron C = 140
Length = 125 LF (approx. distance from tap to RPZ)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(125)(73.81)^{1.85}}{(140)^{1.85}\ (6)^{4.866}} = 0.10 \text{ ft} = 0.04 \text{ psi}$$

Δ elev = 0 ft = 0.00 psi
Loss through meter = 1 psi
Loss through RPZ = 12 psi
Total Losses = 13.0 psi
Static Pressure = 100 psi (per ECWA)
Residual Pressure Following RPZ = 100 - 13.0 = 87.0 psi (available after rpz & meter)

Residual Pressure 30" above 3rd Floor
Δ elev = 21 ft = 9.09 psi
Residual Pressure 30" above 3rd Floor = 77.9 psi

Water Demand Calculations (fire):

Proposed Multi-Family

Q = 1,000 gpd

Headlosses:

Q_{peak} = 1000 gpm
Pipe = 6 inch Ductile Iron C = 140
Length = 125 LF (approx. distance from tap to RPDA)

$$H_L = \frac{10.44\ L\ Q^{1.85}}{C^{1.85}\ D^{4.866}} = \frac{10.44(125)(1000)^{1.85}}{(140)^{1.85}\ (6)^{4.866}} = 8.11 \text{ ft} = 3.51 \text{ psi}$$

Δ elev = 0 ft = 0.00 psi
Loss Through RPZ = 12.0 psi
Total Losses = 15.5 psi
Static Pressure = 100.0 psi (per ECWA)
Residual Pressure after RPDA = 100 - 15.5 = 84.5 psi

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Downstream Sewer Capacity Analysis

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD
DESIGN

DOWNSTREAM SANITARY SEWER CAPACITY ANALYSIS REPORT

for

Multi-Family Project

480 Dodge Road
Town of Amherst, Erie County, New York

Prepared for

The Green Organization

6465 Transit Road
East Amherst, NY 14051

Prepared by

Carmina Wood Design

487 Main Street, Suite 500
Buffalo, NY 14203

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

March 2023
rev. December 2023
rev. April 2025
rev. August 2025



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Project Description

This project is a redevelopment of a 5.17 acre site located at 480 Dodge Road in the Town of Amherst. Construction will consist of two three story multi-family buildings and six townhouse buildings with attached garages totaling 108 units, detached garage buildings, and associated utility, lighting and landscaping improvements. Currently the site is developed and utilized as a landscape nursery. All existing structures on site are to be demolished. The proposed site development area to be disturbed for this project is approximately 5.17 acres when construction is completed.

An existing 15" public sanitary sewer main is located adjacent to the parcel to the west of the property (460 Dodge Road) and will be utilized for this project. The proposed multi-family development will have a private 8" SDR-35 PVC sanitary lateral at 0.4% minimum slope route through the site. All multi-family, clubhouse and townhouse buildings will connect to this 8" private sewer via a 6" SDR-35 PVC sanitary lateral at 2.0% minimum. The private 8" sanitary sewer will connect the nearest public sanitary sewer manhole along the western boundary of the project site and a new public sanitary sewer manhole will be installed on the project site to allow for the connection to the existing public sanitary sewer. This public manhole will be located in a 30'x30' easement to the Town of Amherst.

Wastewater from the proposed project will flow west along Dodge Road via an 18" sewer, and then west along Dodge Road via the 60" Peanut Line sewer. Flows then continue west and are conveyed north through an 84" sewer, and then ultimately to the Town of Amherst Wastewater Treatment Facility. Refer to the sewer routing map located in the TECSmith monitoring section of this downstream sewer capacity analysis report.

Node 1 – 340 Dodge Road (18"):

Existing Peak Flow measured (wet weather event)	= 0.043 cfs (0.028 mgd)*
Proposed 480 Dodge Road Peak Flow	= 0.127 cfs**
Proposed Total Peak Flow	= 0.170 cfs

Theoretical capacity of existing 18" RCP pipe @ 0.06% = 3.038 cfs

Conclusion: The proposed total peak flow is less than the capacity of the 18" ACP pipe, therefore there is sufficient capacity. At no time during the monitoring period did flow depth exceed the pipe diameter at Node 1 of the downstream monitoring points during the rain events monitored.

Node 2 – North Ellicott Creek Road (60"):

Existing Peak Flow measured (wet weather event)	= 31.763 cfs (20.532 mgd)*
Proposed 480 Dodge Road Flow Peak Flow	= 0.127 cfs**
Proposed Total Peak Flow	= 31.890 cfs

Theoretical capacity of existing 60" RCP pipe @ 0.07% = 81.366 cfs

Conclusion: The proposed total peak flow is less than the capacity of the 60" RCP pipe, therefore there is sufficient capacity. At no time during the monitoring period did flow depth exceed the pipe diameter at Node 2 of the downstream monitoring points during the rain events monitored.

Node 3 – Peanut Line (66"):

Existing Peak Flow measured (wet weather event)	= 56.466 cfs (36.50 mgd)*
Proposed 480 Dodge Road Peak Flow	= 0.127 cfs**
Proposed Total Peak Flow	= 56.593 cfs

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Capacity of existing 66” Peanut Line sewer = 88.798 cfs (57.4 mgd)

Conclusion: The proposed total peak flow is less than the capacity of the 66” Peanut Line sewer, therefore there is sufficient capacity.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Foot Notes:
Downstream capacity node information provided by Town of Amherst Engineering Department
*Converted from measurements in TECSmith report dated 8/12/20
**See Sanitary Sewage Demand Calculations

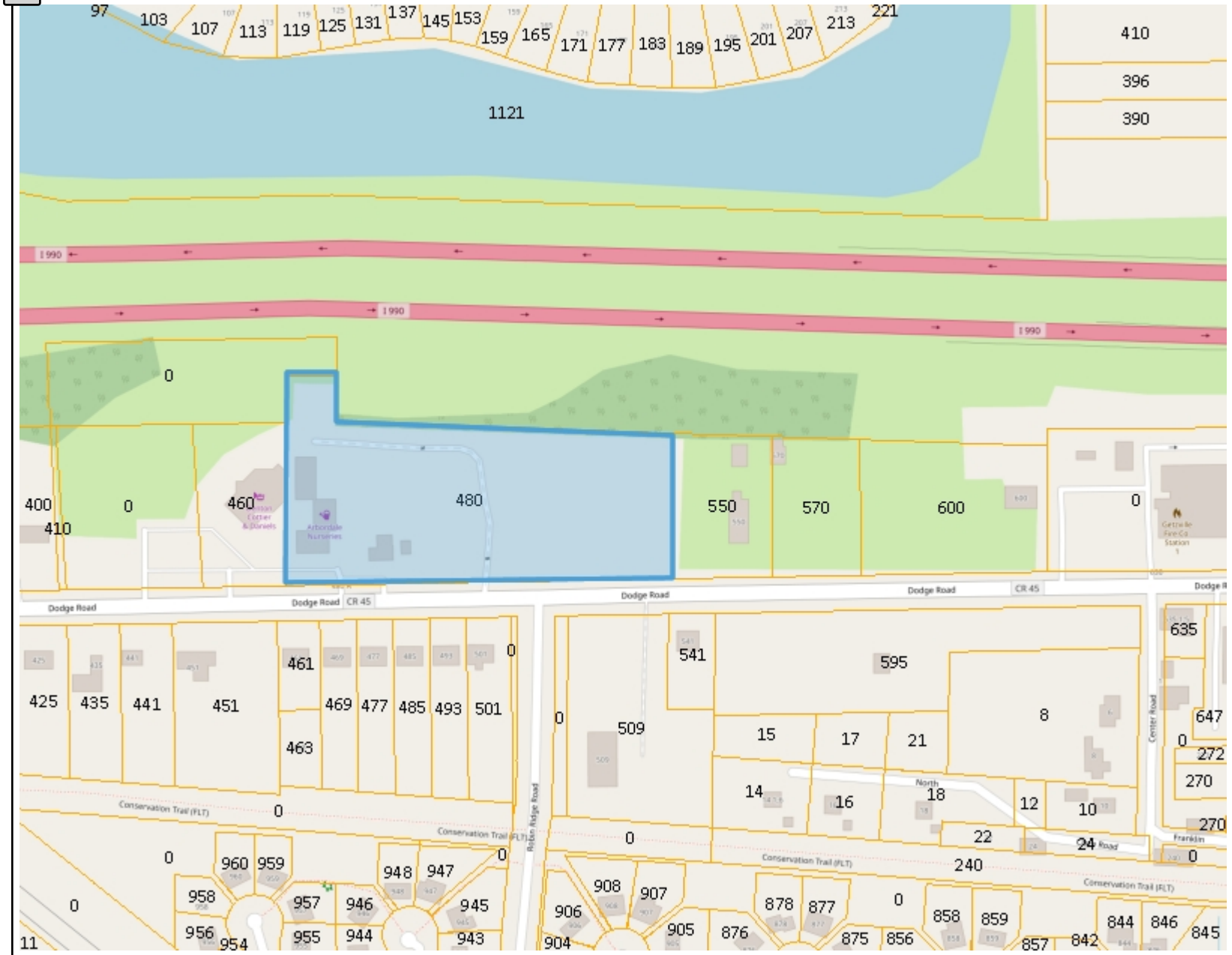
Location Map

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Erie County On-Line Mapping Application





Legend

- Parcels

0 0.07 0.1 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: 4,514

Sanitary Demand Calculations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CARMINA WOOD DESIGN
487 MAIN STREET, SUITE 500
BUFFALO, NEW YORK, 14203
(716) 842-3165
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Project No.: 22.296 Date: 3/20/2023
Project Name: Multi-Family Development rev. 8/22/25
Project Address: 480 Dodge Road Amherst, NY
Subject: Sanitary Sewer & Water Demand Calcs
Sheet: 1 of 2

Sanitary Sewage Demand Calculations:

Proposed Towhouses

110	gal/d/unit	x	36 units	=	3,960	gpd	*use 110 gallons per unit per day (1-bdrm)
220	gal/d/unit	x	72 units	=	15,840	gpd	*use 220 gallons per unit per day (2-bdrm)

Total Site Sanitary Demand: = 19,800 gpd

Find Peak Sanitary Demand:

Peaking Factor based on Population:

Total demand: 19,800 gpd / 100 gpcd = 198 per capita

Population (P) = 198 people

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

Peaking Factor = 4.15

Peak Sanitary Demand = 19,800 x 4.15 = 82,163 gpd
= 0.082 MGD
= 0.127 cfs

Required Infiltration and Inflow Mitigation:

Peak Sanitary Flow = 82,163 gpd = 57.06 gpm

4:1 offset flow per NYSDEC requirements = 57.06 x 4 = 228.23 gpm req'd

Mitigation Credit = $250 / gpm

Mitigation Agreement Amount = $57,057.36

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TECSmith Monitoring Report

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Date	Node 1			Node 2			Rain₂
	340 Dodge Road (18")			North Ellicott Creek Rd. (60")			(inches)
	FLOW (GAL x 1,000)	PEAK FLOW (MGD)	PEAK LEVEL (IN)	FLOW (GAL x 1,000)	PEAK FLOW (MDG)	PEAK LEVEL (IN)	
7/14/2020	2.772	0.016	1.480	6974.494	9.101	15.869	*0*
7/15/2020	4.498	0.017	1.409	6591.385	8.845	15.512	*0*
7/16/2020	8.981	0.028	1.915	9916.241	20.532	27.213	***0.86***
7/17/2020	7.891	0.023	1.581	10096.644	16.639	23.493	***0.03***
7/18/2020	4.239	0.018	1.514	8256.593	10.757	17.307	*0*
7/19/2020	4.120	0.017	1.443	7589.558	11.382	18.060	***0.21***
7/20/2020	5.074	0.018	1.463	7269.757	9.235	16.144	*0*
7/21/2020	4.950	0.021	1.574	6681.658	8.895	15.365	*0*
7/22/2020	7.724	0.025	1.803	8633.887	15.390	22.402	***0.42***
7/23/2020	6.646	0.022	1.634	7327.211	9.216	16.027	*0*
7/24/2020	4.713	0.017	1.457	6764.464	8.779	15.317	*0*
7/25/2020	4.290	0.017	1.452	6426.122	8.861	15.407	*0*
7/26/2020	3.747	0.022	1.443	6409.255	8.667	15.297	*0*
7/27/2020	7.977	0.020	1.740	6487.339	8.269	15.107	***0.03***
7/28/2020	6.442	0.017	1.514	6298.427	8.016	14.780	***0.01***
7/29/2020	7.408	0.019	1.574	8340.302	16.584	23.592	***0.18***
7/30/2020	8.040	0.024	1.628	6969.955	8.785	15.769	*0*
7/31/2020	6.650	0.021	1.577	6450.443	8.415	15.050	*0*
8/1/2020	6.228	0.022	1.525	6190.340	8.162	14.979	*0*
8/2/2020	7.807	0.025	1.638	7093.727	10.270	17.033	***0.29***
8/3/2020	8.748	0.025	1.748	6767.967	8.538	15.346	*0*
8/4/2020	8.173	0.023	1.663	6796.062	10.365	17.180	***0.9***
8/5/2020	8.747	0.026	1.743	8708.573	13.072	20.203	*0*
8/6/2020	5.549	0.024	1.538	6692.090	8.551	15.230	*0*
8/7/2020	3.728	0.022	1.634	6318.850	8.227	14.918	*0*
8/8/2020	5.740	0.022	1.580	6101.179	8.330	15.085	*0*
8/9/2020	4.715	0.017	1.563	6073.131	8.252	14.955	*0*
8/10/2020	7.088	0.020	1.628	6101.557	7.953	14.573	*0*
8/11/2020	3.030	0.019	1.576	2981.304	8.010	14.695	*0*
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TECsmith

TECSMITH, Inc.
PO Box 383
Elma, New York 14059-0383
Tel: 716-462-0382
Fax: 716-687-1418

Date: August 12, 2020

SANITARY SEWER FLOW CAPACITY STUDY – Summary Review

Prepared For: 460 Dodge Road Capacity Analysis

Christopher Wood
487 Main Street, Suite 600
Buffalo, New York 14203
P: (716) 842-3165
F: (716) 842-0263

Project Name: 460 Dodge Road Capacity Analysis

Flow Monitoring Period: July 8, 2020 to August 5, 2020

Rain Events (> 0.5-inches) Monitored: July 16 (0.86”), and August (0.90”)

Number of Monitoring Nodes: Two (2) downstream manholes

Node Locations and Descriptions:

- Node 1 340 Dodge Road (18")
- Node 2 Dodge Rd 60" (60")

Summary Conclusion:

Based on the data presented in this report, specifically the flow depth measurements recorded (see graphs below)

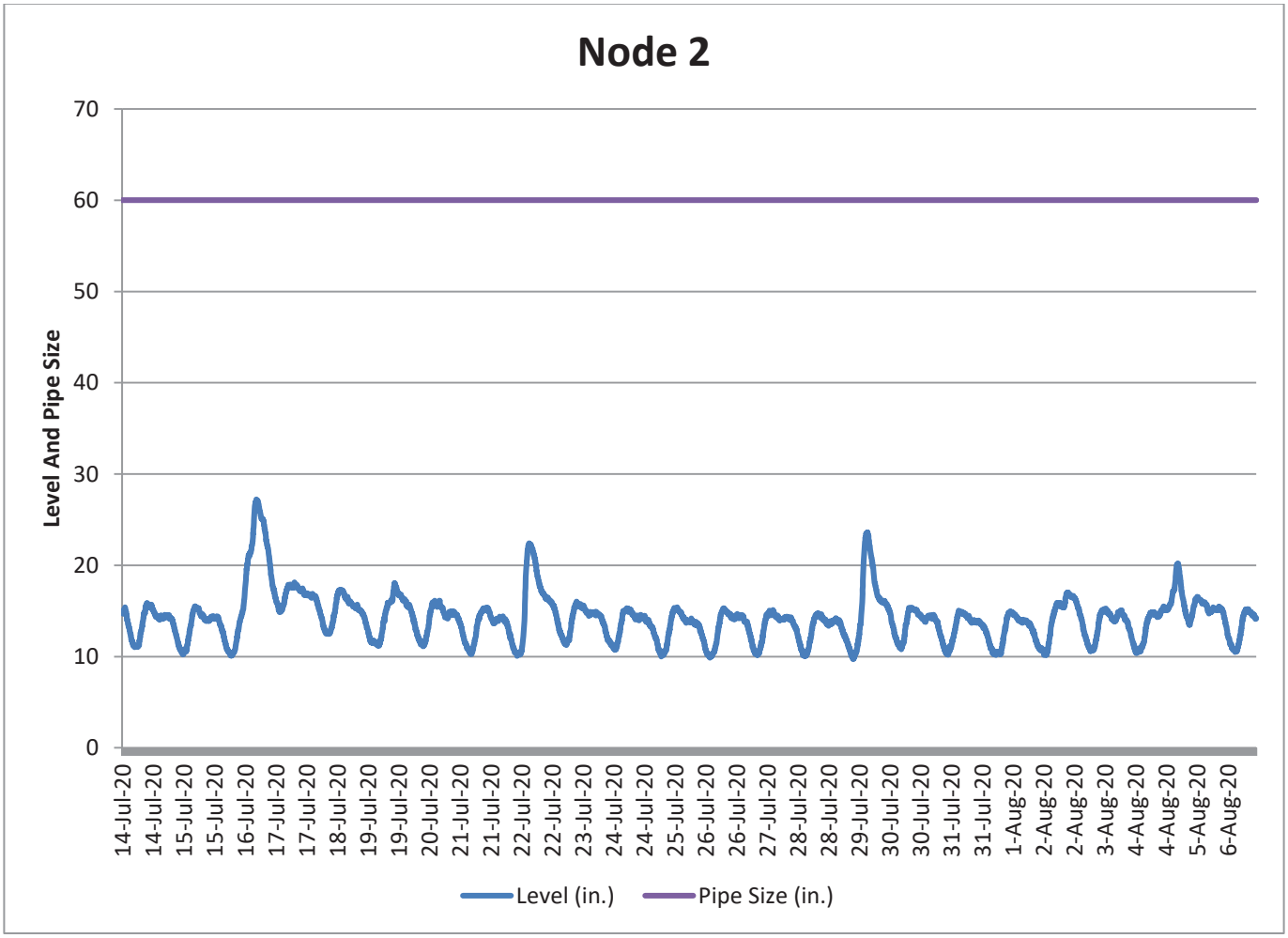
- At no time did the flow depth exceed pipe diameter at any of the downstream monitoring points during the rain events monitored.
- At no time during the monitoring period did the flow at any point slow or stall which would have caused a backup or flooding at the manhole.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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- At no time during the monitoring period did depth of flow exceed pipe diameter at Node 2.



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

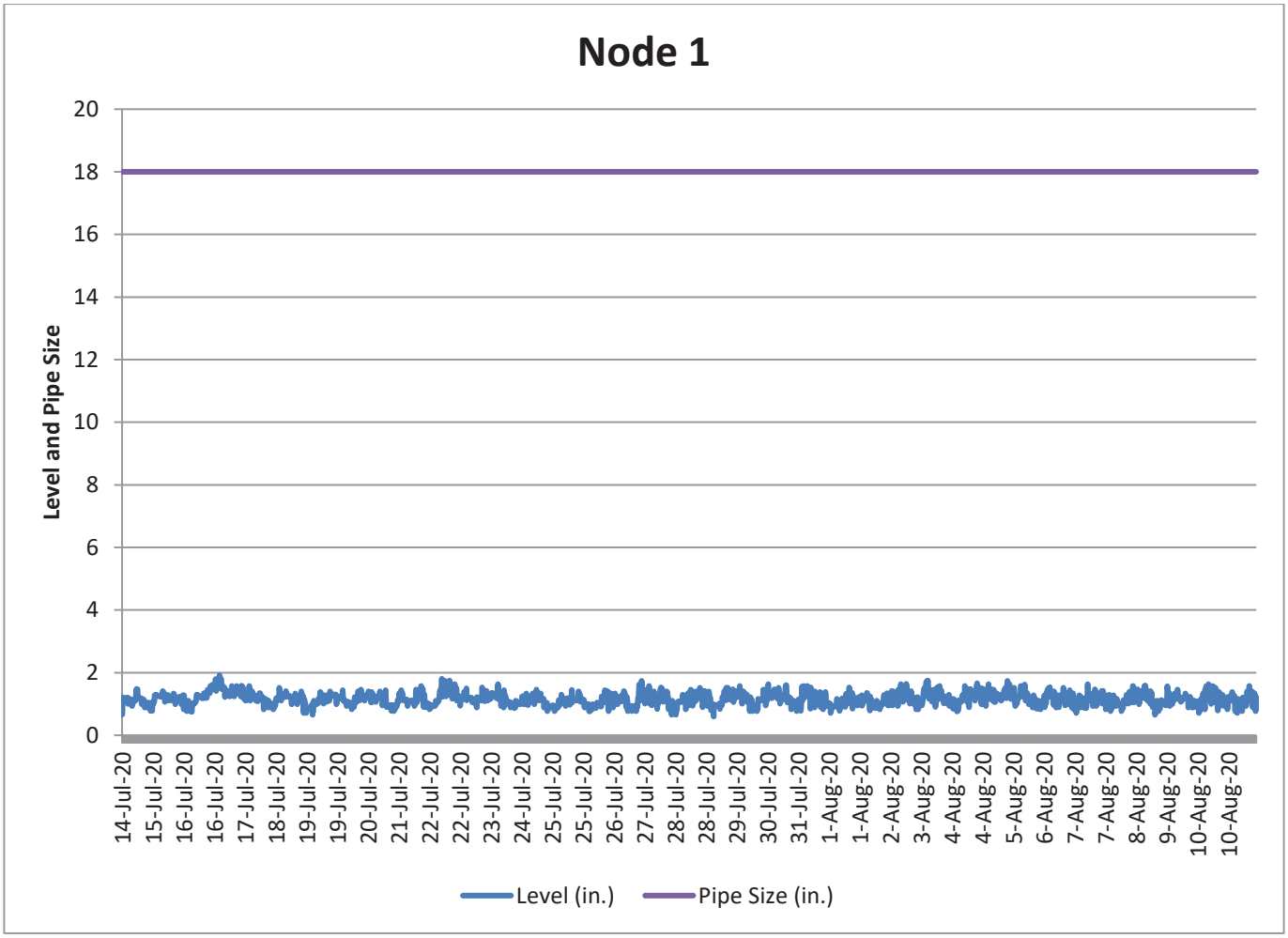
TECsmith

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PO Box 383
Elma, New York 14059-0383
Tel: 716-462-0382
Fax: 716-687-1418

Depth of Flow Capacity Summary:

Depth of flow capacity is based on diameter of pipe. See graphs below.

- At no time during the monitoring period did depth of flow exceed pipe diameter at Node 1.



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Town of Amherst Sanitary Sewer Downstream Routing Maps

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Town of Amherst Engineering Department
Sewer Maintenance Division

Main Sanitary Sewer Interceptors

DOWNSTREAM SEWER

AMHERST PEANUT LINE & WEST SIDE INTERCEPTOR

460 Dodge Road - Proposed 26 Unit Apartment Building - Amherst Consolidated Sewer District

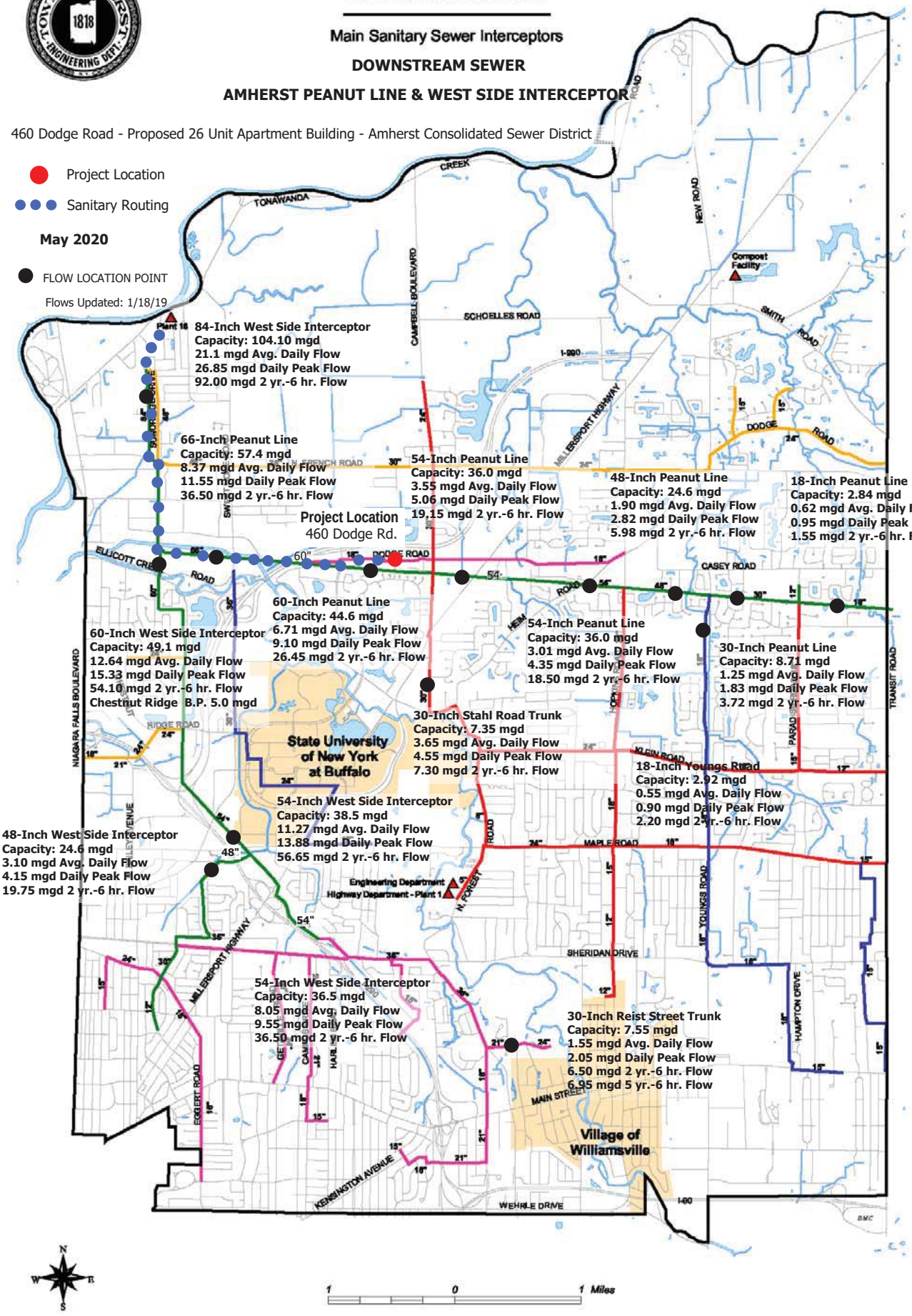
Project Location

Sanitary Routing

May 2020

FLOW LOCATION POINT

Flows Updated: 1/18/19



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

1.a

0837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix B

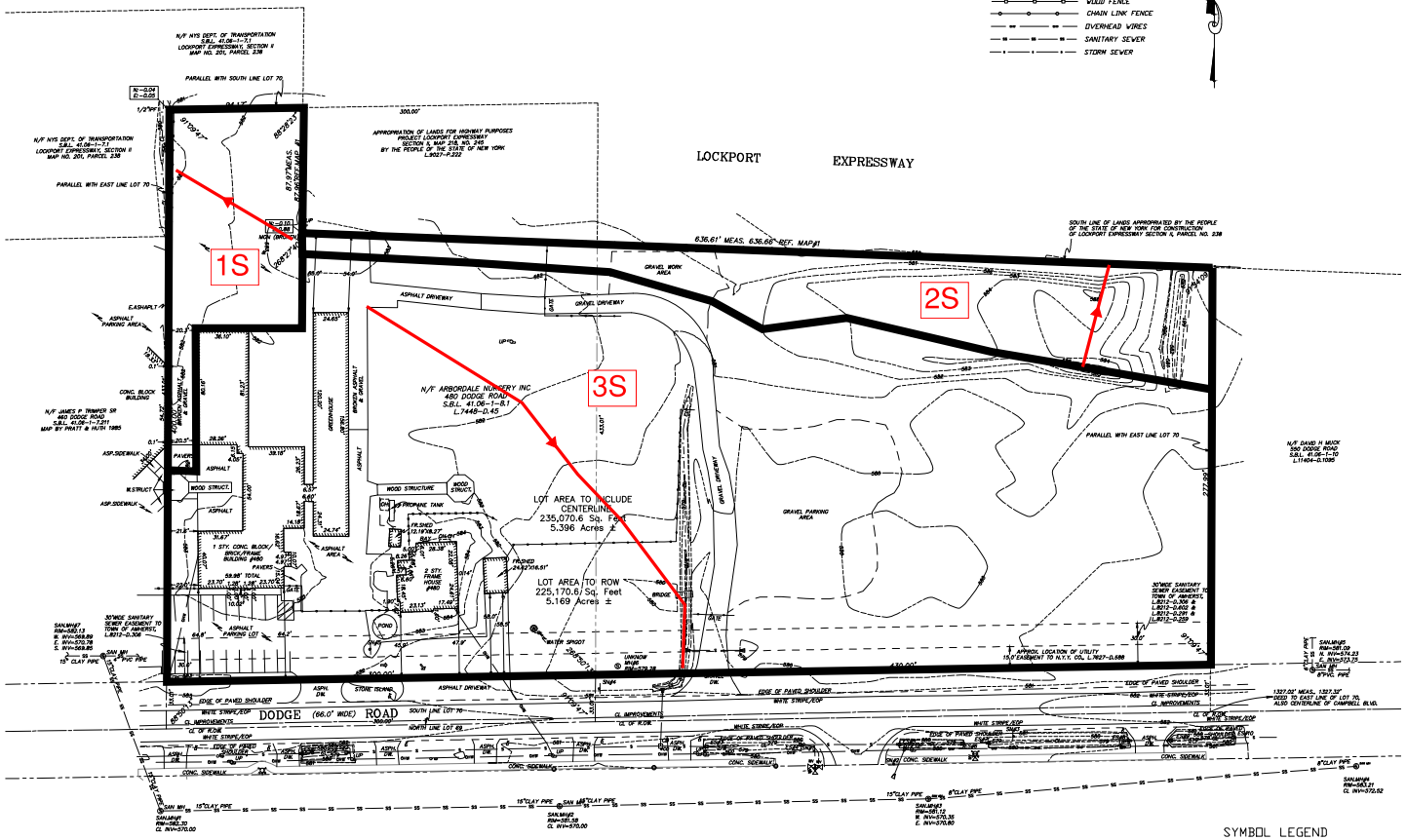
Storm Sewer System Drainage Calculations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Existing Runoff

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

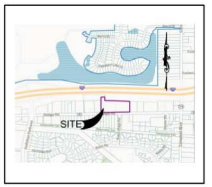
EXISTING RUNOFF



LINE LEGEND

These standard symbols will be found in the drawing.

- HATCH-BUILDING
- CL
- WOOD FENCE
- CHAIN LINK FENCE
- OVERHEAD WIRES
- SANITARY SEWER
- STORM SEWER



VICINITY MAP

REFERENCE MAPS:

1. MAP OF 460 DODGE ROAD BY LANDMARK LAND SURVEYING CO., JOB NO. 2040699, SURVEY UPDATED 09-26-22 FOR S.B.L. 41.06-1-8.1
2. MAP OF 510-560 DODGE ROAD BY PRATT & HUTH ASSOCIATES, JOB. NO. 00460, LAST REVISED JUNE 28, 1988

UN-PLOTTABLE EASEMENTS::

1. RIGHT-OF-WAY TO NATIONAL FUEL GAS DIST. CORP. FOR GAS MAIN PER LIBER 8707 OF DEEDS, PAGE 98.
2. EASEMENT TO TOWN OF AMHERST FOR 8" SANITARY SEWER ACROSS 25' FEET SOUTHERLY REAL PROPERTY FOR LAND BACK OF TOWERS, PAGE 445.
3. EASEMENT TO TOWN OF AMHERST FOR 30" SANITARY SEWER PER LIBER 7555 OF DEEDS, PAGE 320.
4. EASEMENT TO TOWN OF AMHERST FOR SEWER LINE PER LIBER 8212 OF DEEDS, PAGE 306.
5. RIGHT-OF-WAY TO NIAGARA GAS CORP. FOR GAS MAIN PER LIBER 7269 OF DEEDS, PAGE 98.

ABSTRACTS OF TITLE:

1. ABSTRACT OF TITLE BY EQUITY TITLE AGENCY, LLC, SEARCH No. E22-5600BAE, DATED AUGUST 18, 2022 FOR 460 DODGE ROAD, S.B.L. 41.06-1-8.1
2. ABSTRACT OF TITLE BY EQUITY TITLE AGENCY, LLC, SEARCH No. E22-5600BAE, DATED AUGUST 18, 2022 FOR 480 DODGE ROAD, S.B.L. 41.06-1-8.1

ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. BEFORE YOU DIG, DRILL, OR BLAST, CALL UFPO AT 1-800-962-7962.

NOTE:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING RECORD DRAWINGS PROVIDED TO THE SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. ADDITIONAL BURIED UTILITIES OF UNKNOWN LOCATION MAY EXIST. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN WERE LOCATED IN THE MANNER PERFORMED BY A SUBSURFACE UTILITY ENGINEERING FIRM, NOR DOES HE WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. BEFORE EXCAVATION ANY REQUIRE, THE APPROPRIATE AGENCIES SHOULD BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

1. VERTICAL CONTROL REFERENCED TO NAVD 88 VERTICAL DATUM.
2. HORIZONTAL CONTROL BASED ON NY STATE PLANE COORDINATE SYSTEM – NAD83 NY WEST ZONE.

END SECTION INVERTS:

ES#1	12" CMP	577.08
ES#2	12" CMP	578.35
ES#3	12" CMP	577.84
ES#4	12" CMP	578.33
ES#5	12" CMP	578.69
ES#6	12" HDPE	578.57
ES#7	12" HDPE	578.49
ES#8	12" HDPE	578.71
ES#9	12" HDPE	578.06
ES#10	12" CMP	578.89

STREET & SITE SIGNS:

SN#1	STREET SIGN	ROBIN RIDGE RD & DODGE RD
SN#2	STOP SIGN	
SN#3	SPEED LIMIT 40MPH	
SN#4	SPEED LIMIT 40 MPH	
SN#5	PYLON SIGN	ARBORDALE NURSERIES LANDSCAPING

SYMBOL LEGEND

These standard symbols will be found in the drawing.

- SIGN
- CATCHBASIN
- SANITARY SEWER
- WATER VALVE
- SEWER CLEAN OUT
- HYDRANT
- UTILITY POLE
- SPOT ELEVATION
- WELL
- MAILBOX
- YD YARD DRAIN
- END SECTION

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NOTE: THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE.

0 40 80 120

BOUNDARY & TOPOGRAPHIC SURVEY OF
PART OF LOT 70, TOWNSHIP 12, RANGE 7,
OF HOLLAND LAND COMPANY'S SURVEY
TOWN OF AMHERST, ERIE COUNTY, NEW YORK

GPI ENGINEERING, LANDSCAPE ARCHITECTURE & SURVEYING, LLP
ENGINEERING • SURVEYING • LANDSCAPE ARCHITECTURE
4820 SENECA STREET, SUITE 110
BUFFALO, NEW YORK 14228
(716) 633-4844 FAX 63

Job No. 10470 Date: DECEMB
Scale: 1" = 40' TAX No. 41.0

REVISION/TYPE

Events for Subcatchment 1S: West

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.87	0.95	1,924	1.36
2-Year	2.20	1.15	2,370	1.67
5-Year	2.69	1.45	3,040	2.15
10-Year	3.14	1.72	3,661	2.59
25-Year	3.84	2.15	4,634	3.27
50-Year	4.48	2.53	5,528	3.90
100-Year	**5.23**	**2.98**	**6,579**	**4.65**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Events for Subcatchment 2S: East

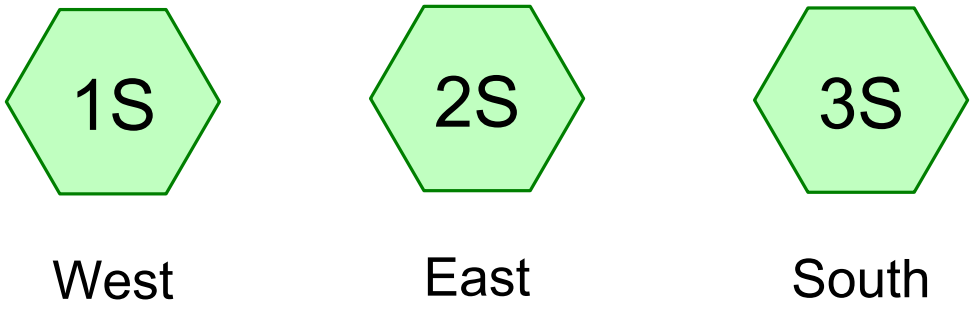
Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.87	0.44	1,291	0.56
2-Year	2.20	0.63	1,793	0.78
5-Year	2.69	0.93	2,606	1.14
10-Year	3.14	1.22	3,408	1.49
25-Year	3.84	1.70	4,727	2.07
50-Year	4.48	2.14	5,988	2.62
100-Year	**5.23**	**2.68**	**7,514**	**3.29**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Events for Subcatchment 3S: South

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.87	5.02	13,877	0.92
2-Year	2.20	6.51	18,016	1.20
5-Year	2.69	8.80	24,436	1.62
10-Year	3.14	10.93	30,533	2.03
25-Year	3.84	14.28	40,270	2.67
50-Year	4.48	17.35	49,354	3.28
100-Year	**5.23**	**20.94**	**60,145**	**3.99**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Subcat Reach Pond Link

Routing Diagram for 22.296 existing
Prepared by Carmina Wood Morris, PC, Printed 3/17/2023
HydroCAD® 10.20-2g s/n 05019 © 2022 HydroCAD Software Solutions LLC

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	Type II 24-hr		Default	24.00	1	1.87	2
2	2-Year	Type II 24-hr		Default	24.00	1	2.20	2
3	5-Year	Type II 24-hr		Default	24.00	1	2.69	2
4	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
5	25-Year	Type II 24-hr		Default	24.00	1	3.84	2
6	50-Year	Type II 24-hr		Default	24.00	1	4.48	2
7	100-Year	Type II 24-hr		Default	24.00	1	5.23	2

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
12,632	84	50-75% Grass cover, Fair, HSG D (1S, 3S)
58,806	96	Gravel surface, HSG D (1S, 3S)
41,382	98	Paved parking, HSG D (3S)
112,385	82	Woods/grass comb., Fair, HSG D (2S, 3S)
225,205	**89**	**TOTAL AREA**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
225,205	HSG D	1S, 2S, 3S
0	Other	
225,205		**TOTAL AREA**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	12,632	0	12,632	50-75% Grass cover, Fair	
0	0	0	58,806	0	58,806	Gravel surface	
0	0	0	41,382	0	41,382	Paved parking	
0	0	0	112,385	0	112,385	Woods/grass comb., Fair	
0	**0**	**0**	**225,205**	**0**	**225,205**	**TOTAL AREA**	

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=1.36"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=0.95 cfs 1,924 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=0.56"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=0.44 cfs 1,291 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=0.92"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=5.02 cfs 13,877 cf

Total Runoff Area = 225,205 sf Runoff Volume = 17,093 cf Average Runoff Depth = 0.91"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

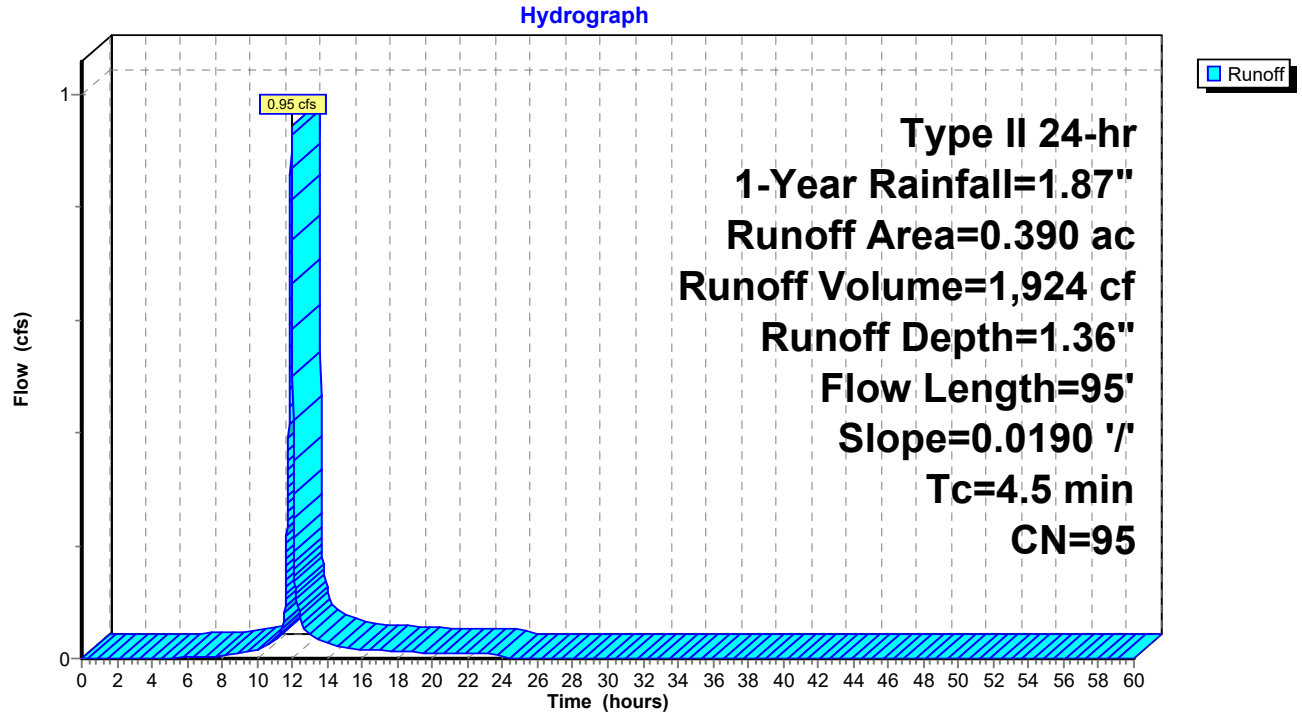
Runoff = 0.95 cfs @ 11.95 hrs, Volume= 1,924 cf, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

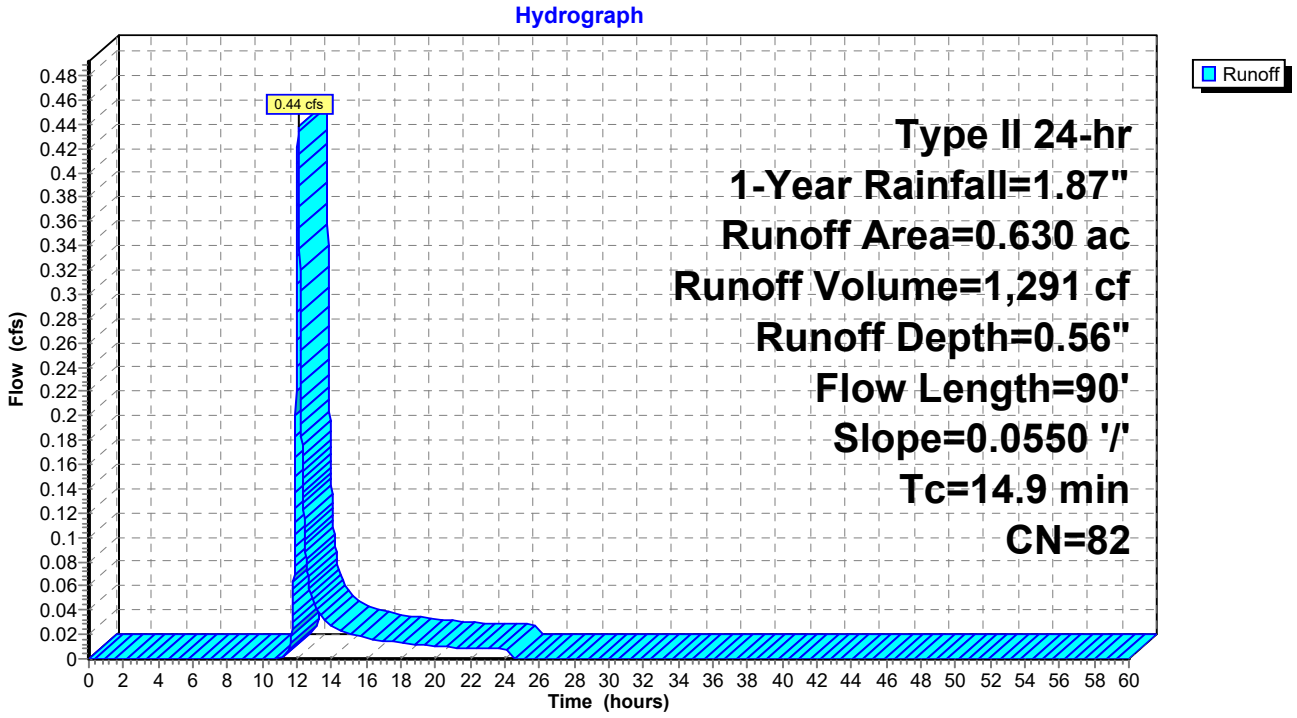
Runoff = 0.44 cfs @ 12.08 hrs, Volume= 1,291 cf, Depth= 0.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

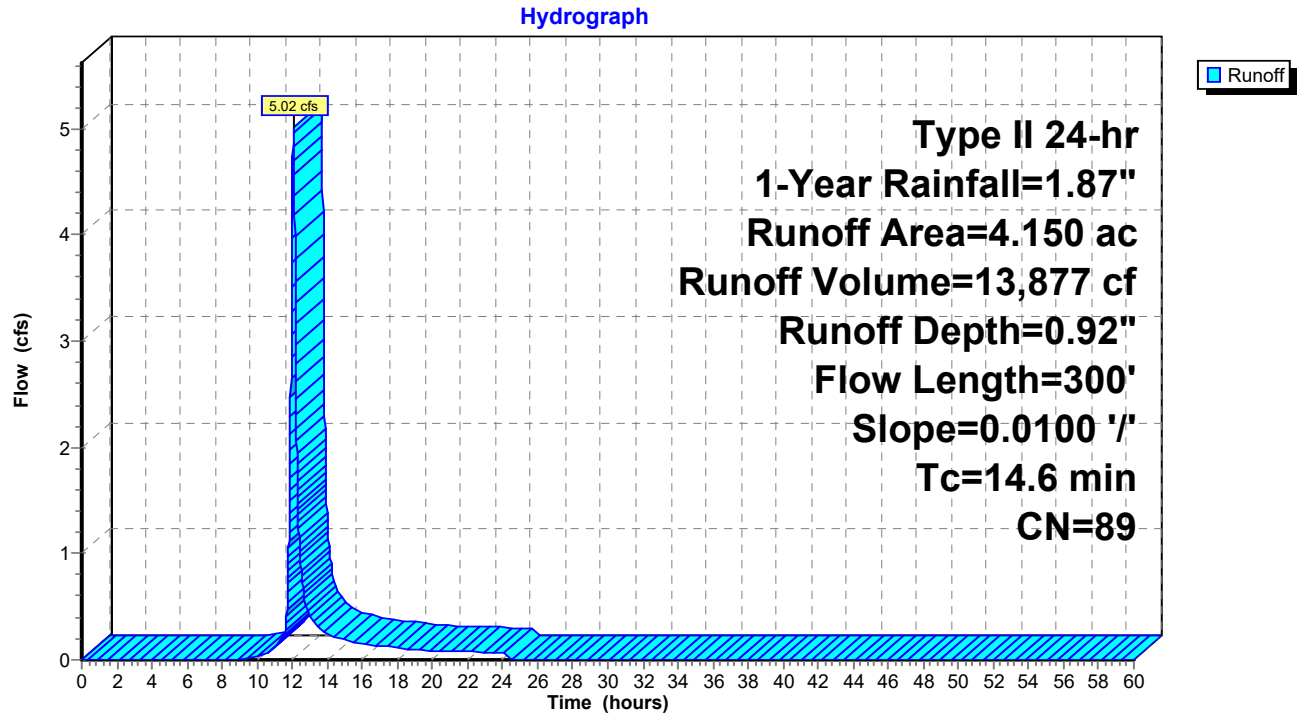
Runoff = 5.02 cfs @ 12.07 hrs, Volume= 13,877 cf, Depth= 0.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=1.67"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=1.15 cfs 2,370 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=0.78"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=0.63 cfs 1,793 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=1.20"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=6.51 cfs 18,016 cf

Total Runoff Area = 225,205 sf Runoff Volume = 22,178 cf Average Runoff Depth = 1.18"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

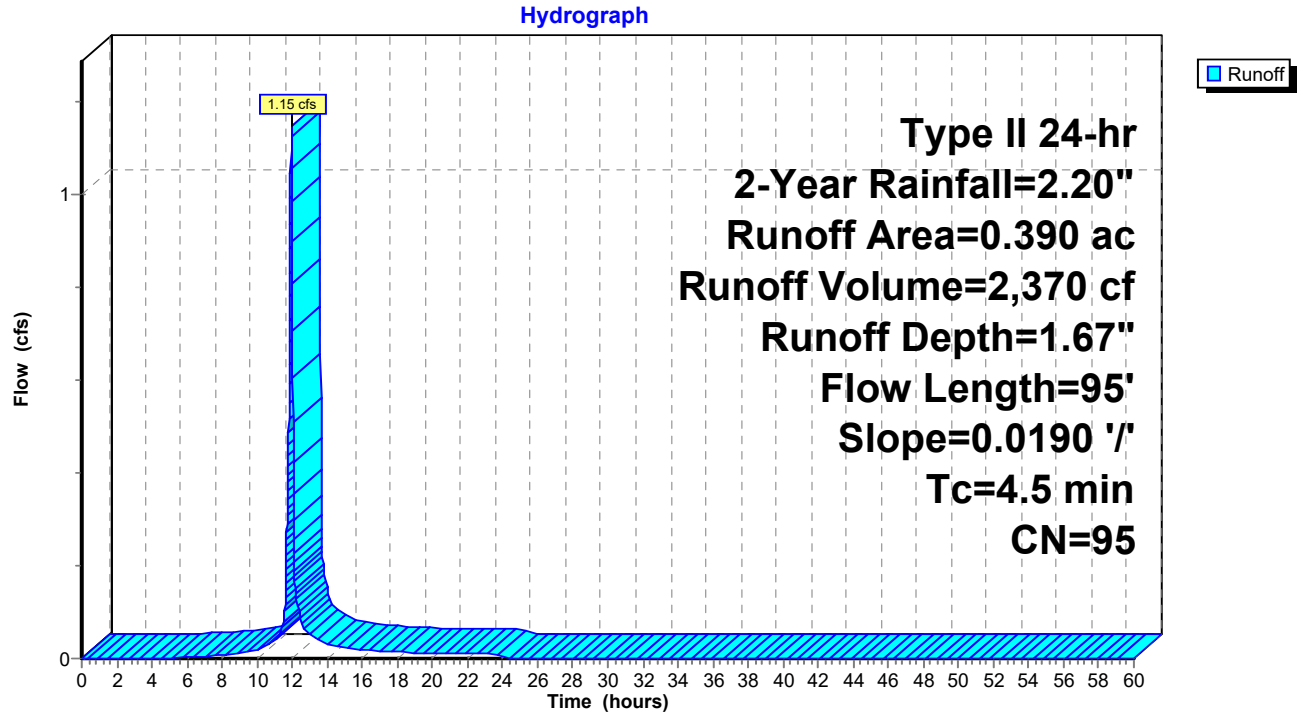
Runoff = 1.15 cfs @ 11.95 hrs, Volume= 2,370 cf, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.20"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

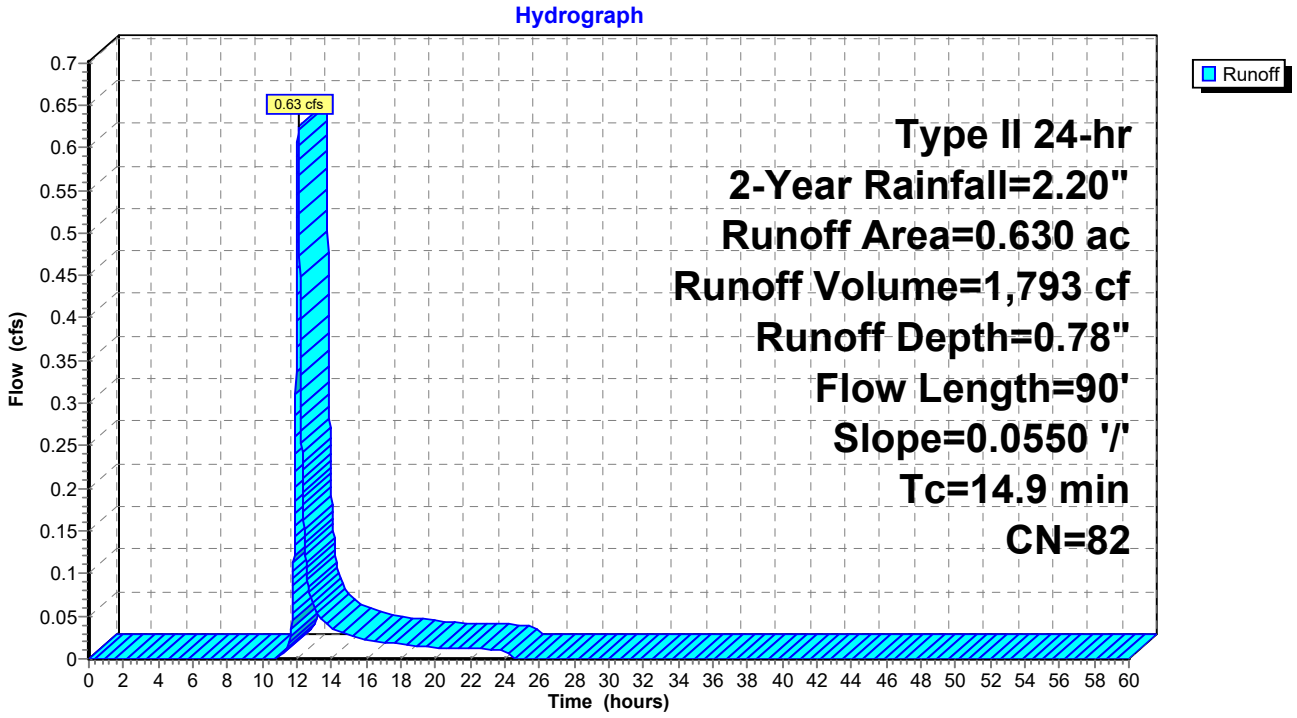
Runoff = 0.63 cfs @ 12.08 hrs, Volume= 1,793 cf, Depth= 0.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.20"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

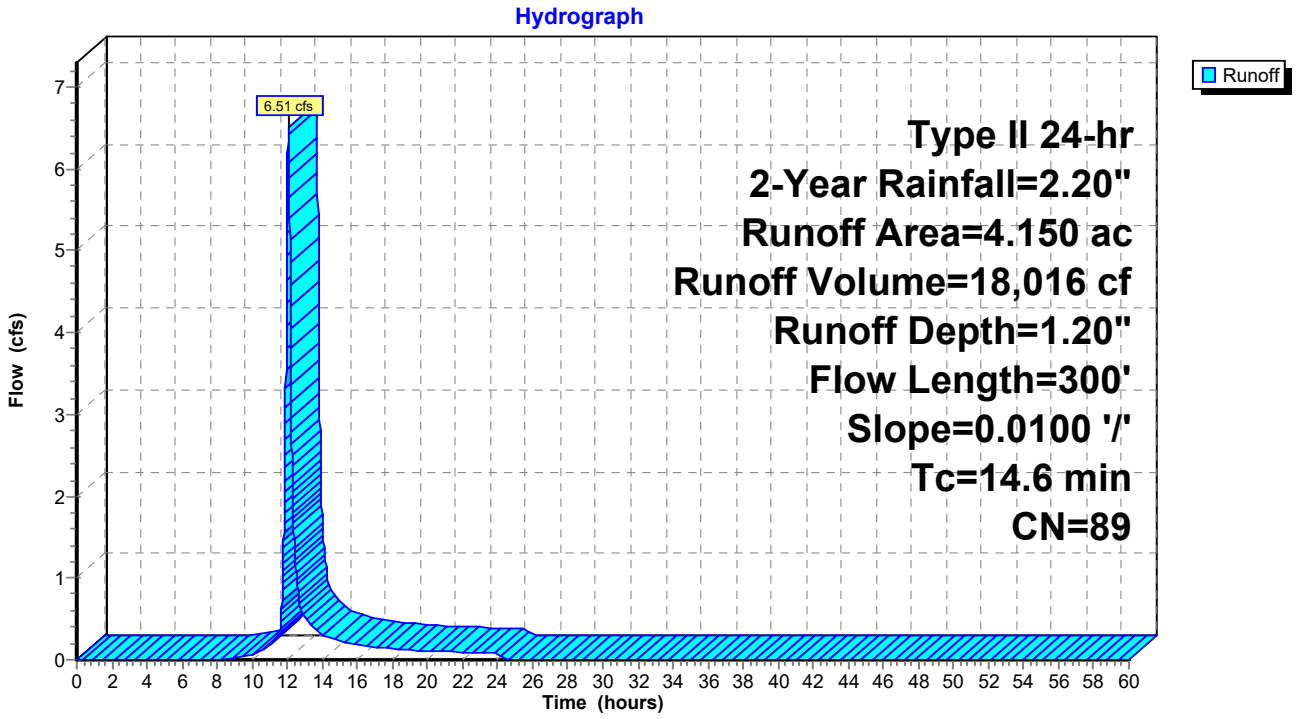
Runoff = 6.51 cfs @ 12.07 hrs, Volume= 18,016 cf, Depth= 1.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.20"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=2.15"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=1.45 cfs 3,040 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=1.14"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=0.93 cfs 2,606 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=1.62"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=8.80 cfs 24,436 cf

Total Runoff Area = 225,205 sf Runoff Volume = 30,082 cf Average Runoff Depth = 1.60"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

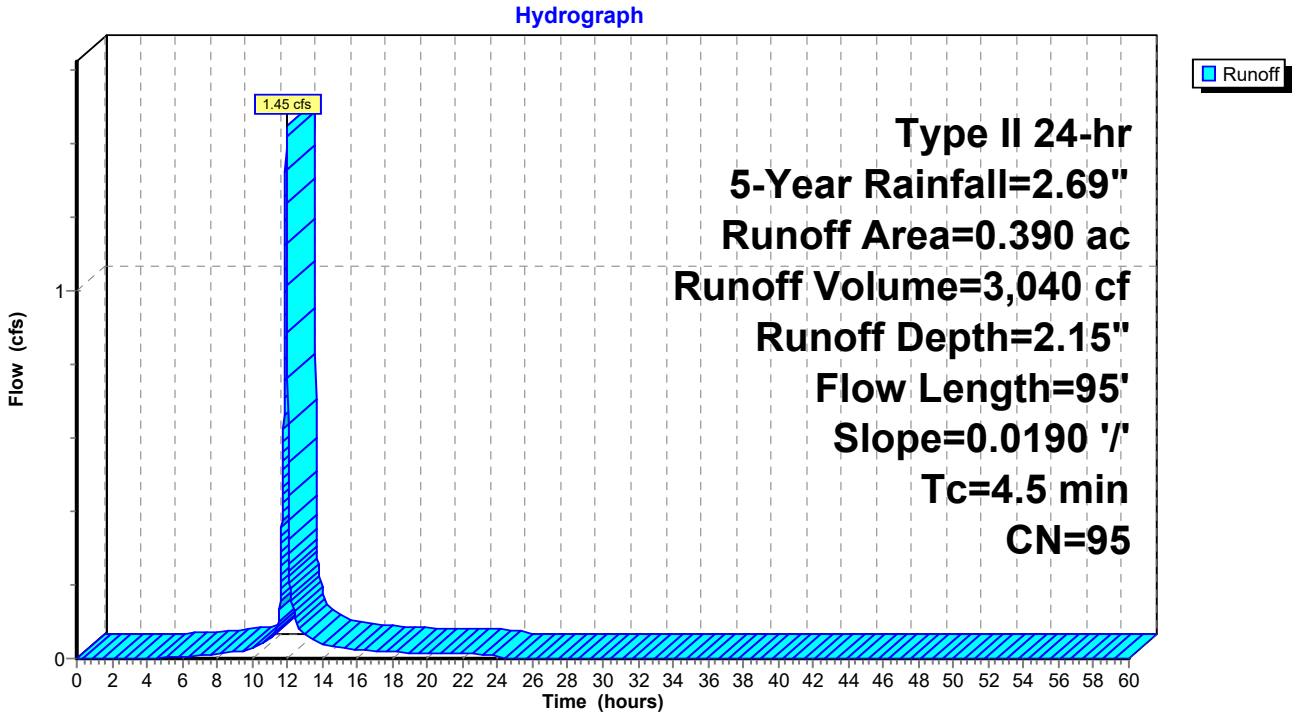
Runoff = 1.45 cfs @ 11.95 hrs, Volume= 3,040 cf, Depth= 2.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=2.69"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

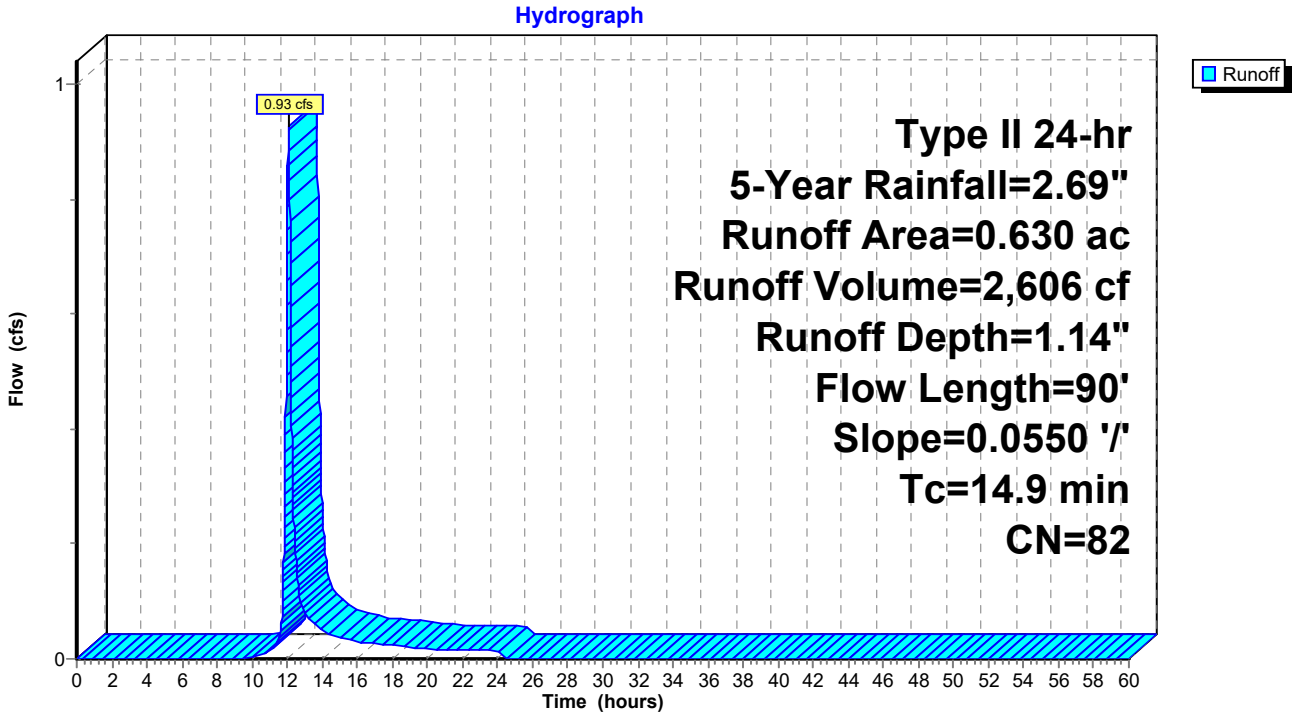
Runoff = 0.93 cfs @ 12.07 hrs, Volume= 2,606 cf, Depth= 1.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=2.69"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

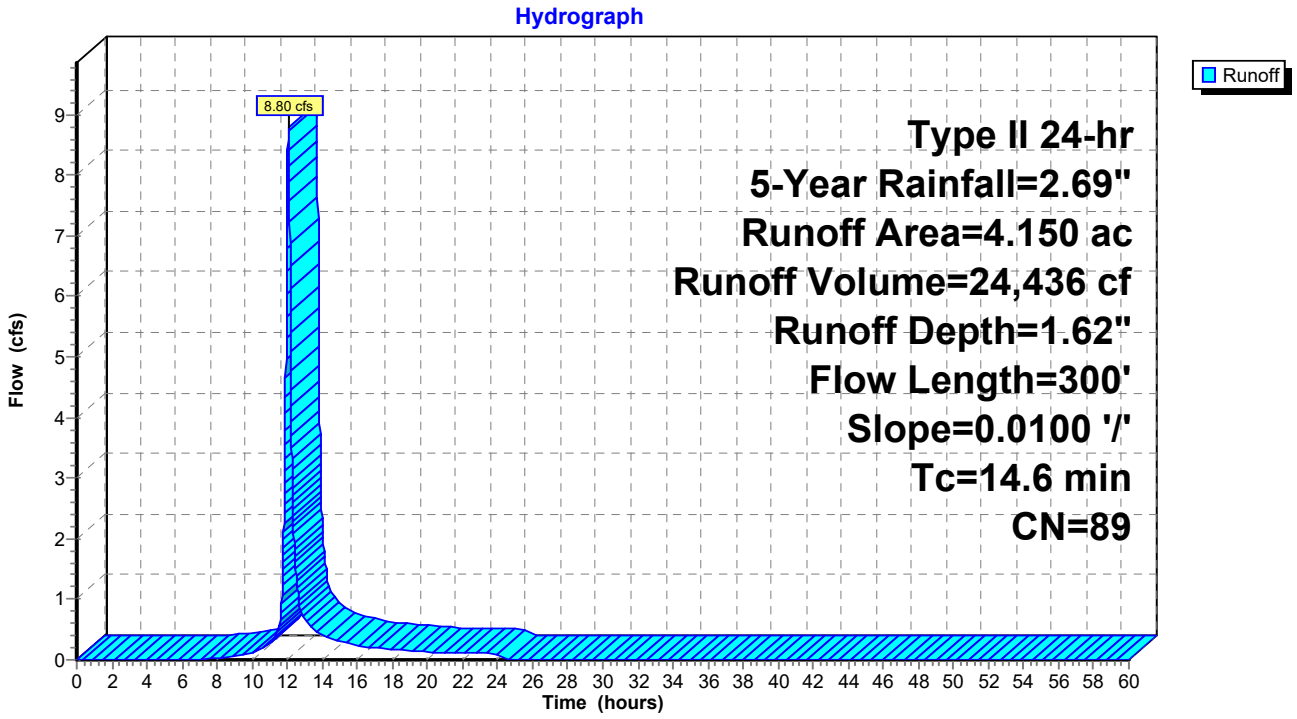
Runoff = 8.80 cfs @ 12.06 hrs, Volume= 24,436 cf, Depth= 1.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=2.69"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=2.59"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=1.72 cfs 3,661 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=1.49"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=1.22 cfs 3,408 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=2.03"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=10.93 cfs 30,533 cf

Total Runoff Area = 225,205 sf Runoff Volume = 37,602 cf Average Runoff Depth = 2.00"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

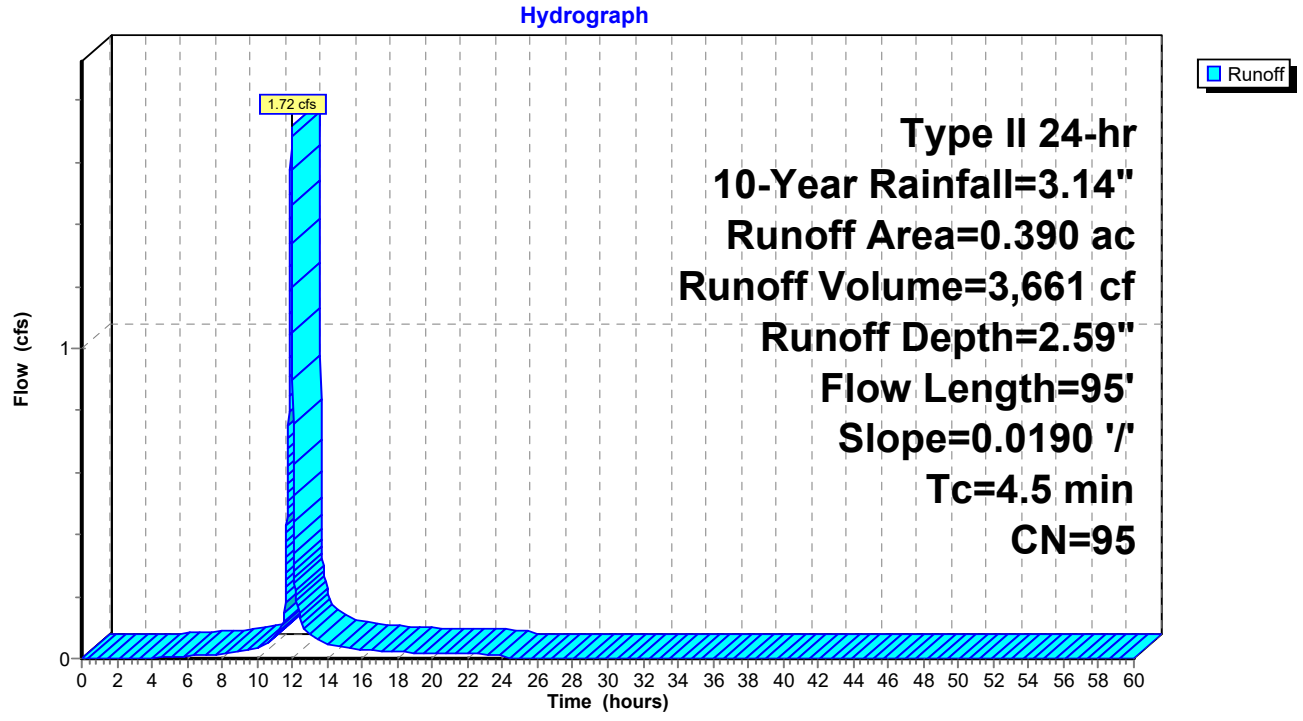
Runoff = 1.72 cfs @ 11.95 hrs, Volume= 3,661 cf, Depth= 2.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

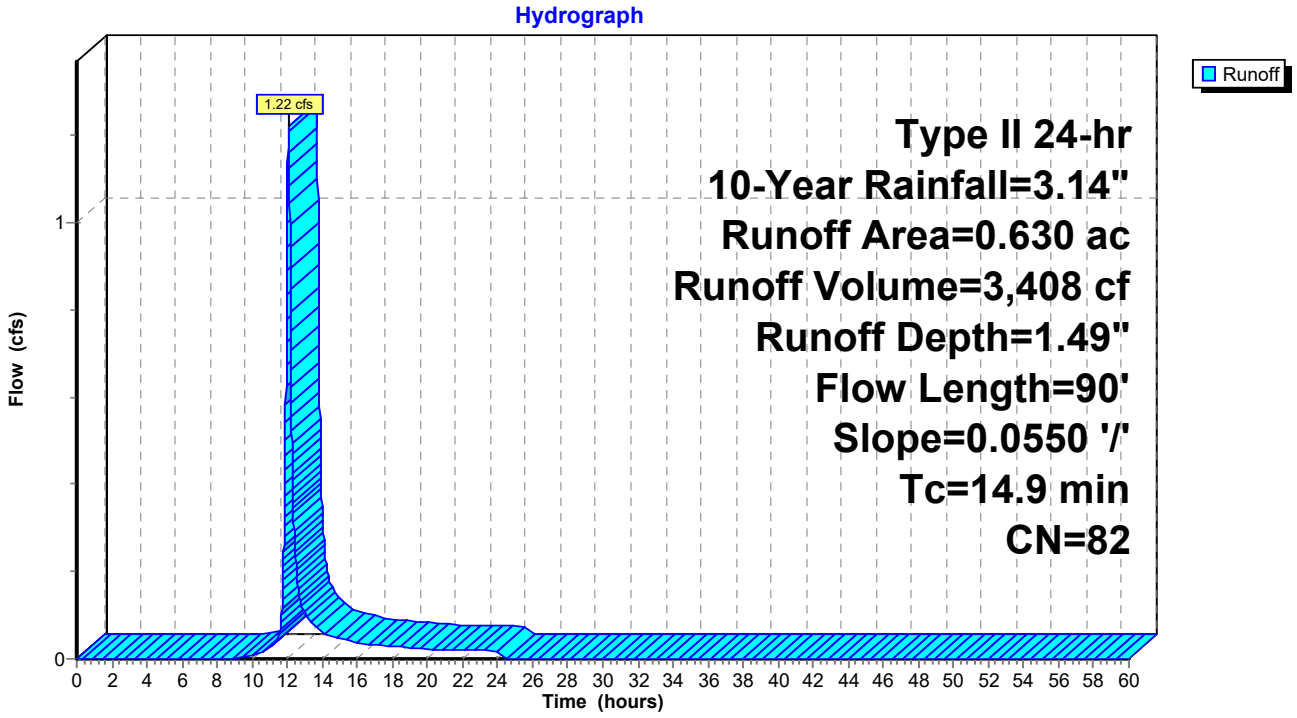
Runoff = 1.22 cfs @ 12.07 hrs, Volume= 3,408 cf, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

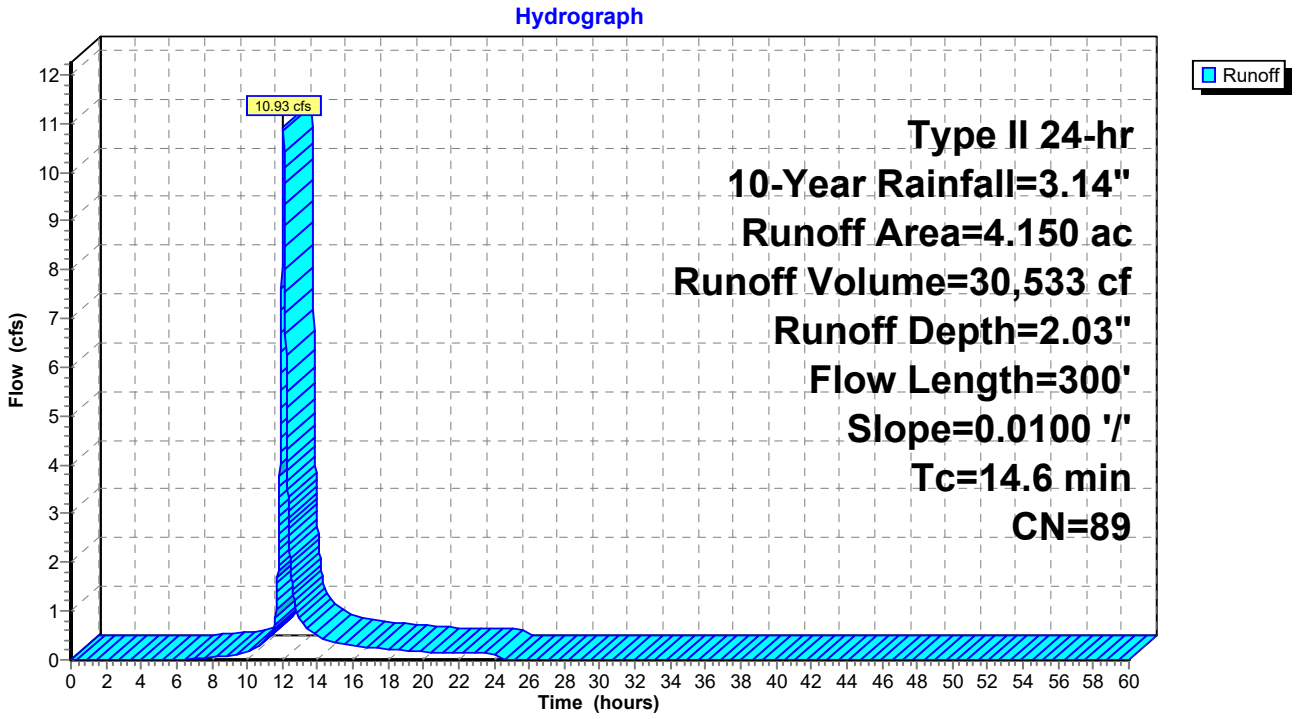
Runoff = 10.93 cfs @ 12.06 hrs, Volume= 30,533 cf, Depth= 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=3.27"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=2.15 cfs 4,634 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=2.07"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=1.70 cfs 4,727 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=2.67"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=14.28 cfs 40,270 cf

Total Runoff Area = 225,205 sf Runoff Volume = 49,632 cf Average Runoff Depth = 2.64"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

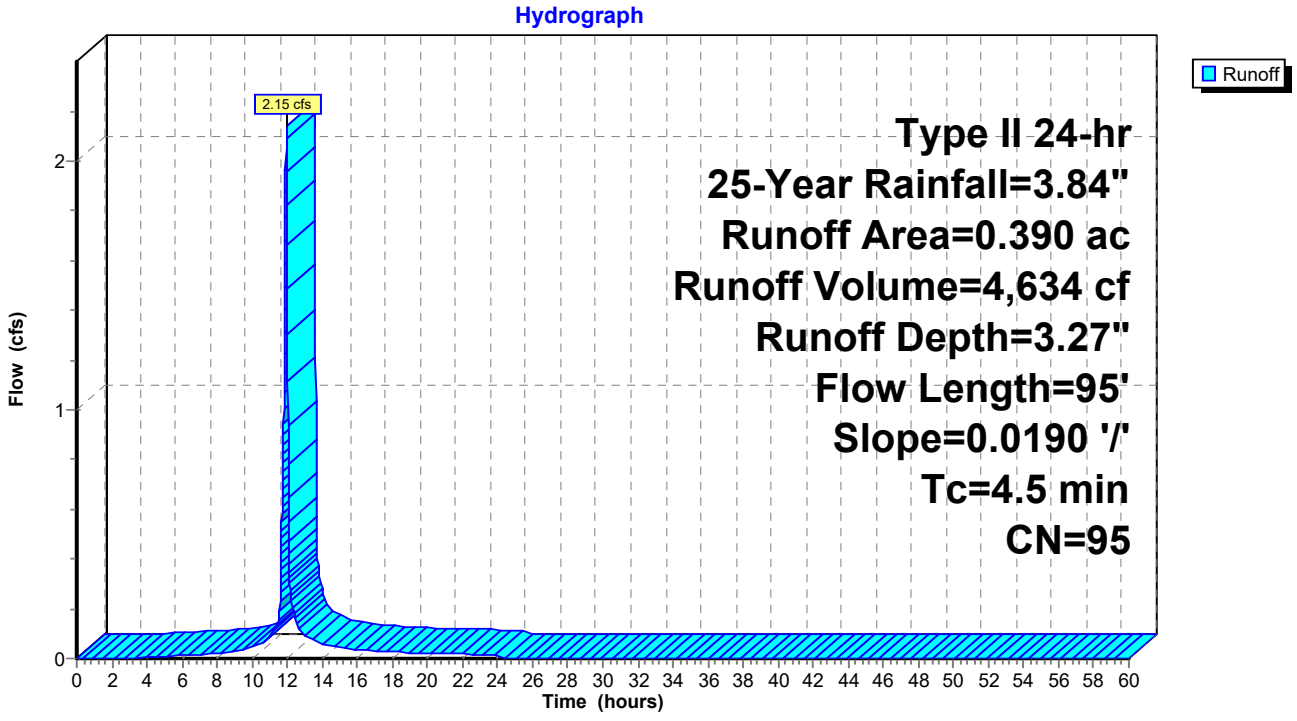
Runoff = 2.15 cfs @ 11.95 hrs, Volume= 4,634 cf, Depth= 3.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

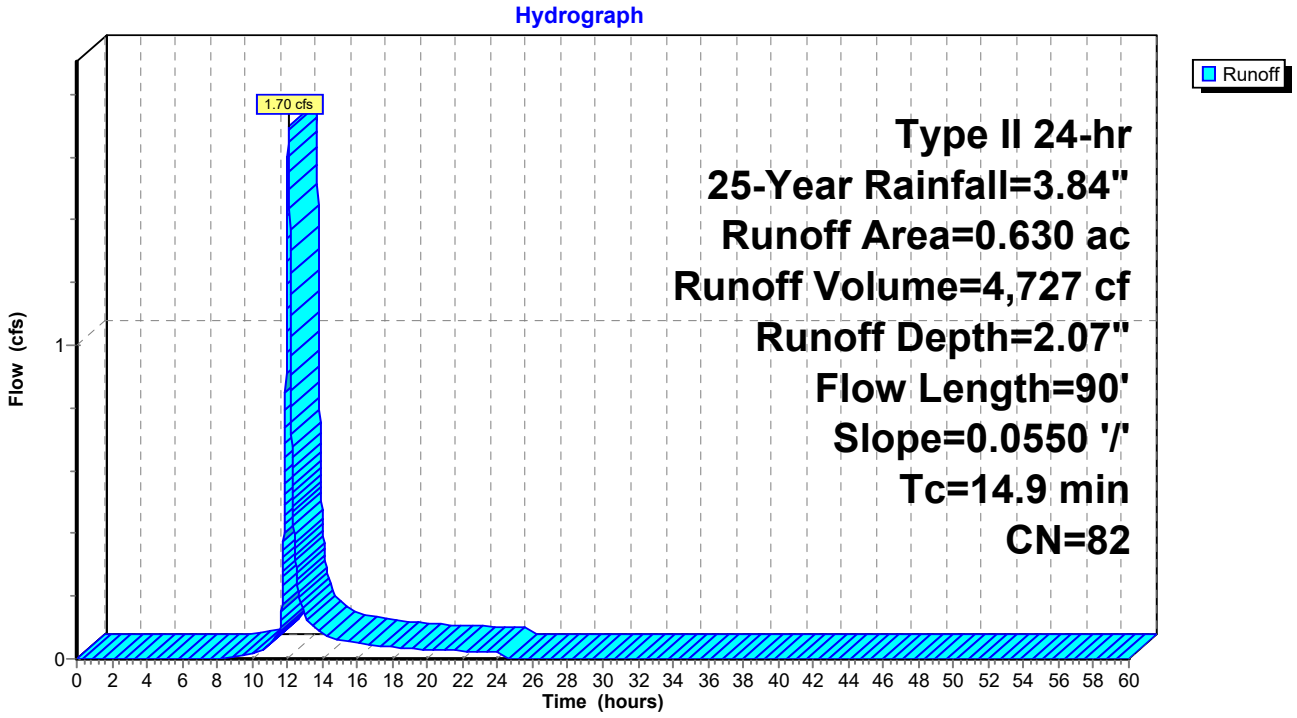
Runoff = 1.70 cfs @ 12.07 hrs, Volume= 4,727 cf, Depth= 2.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

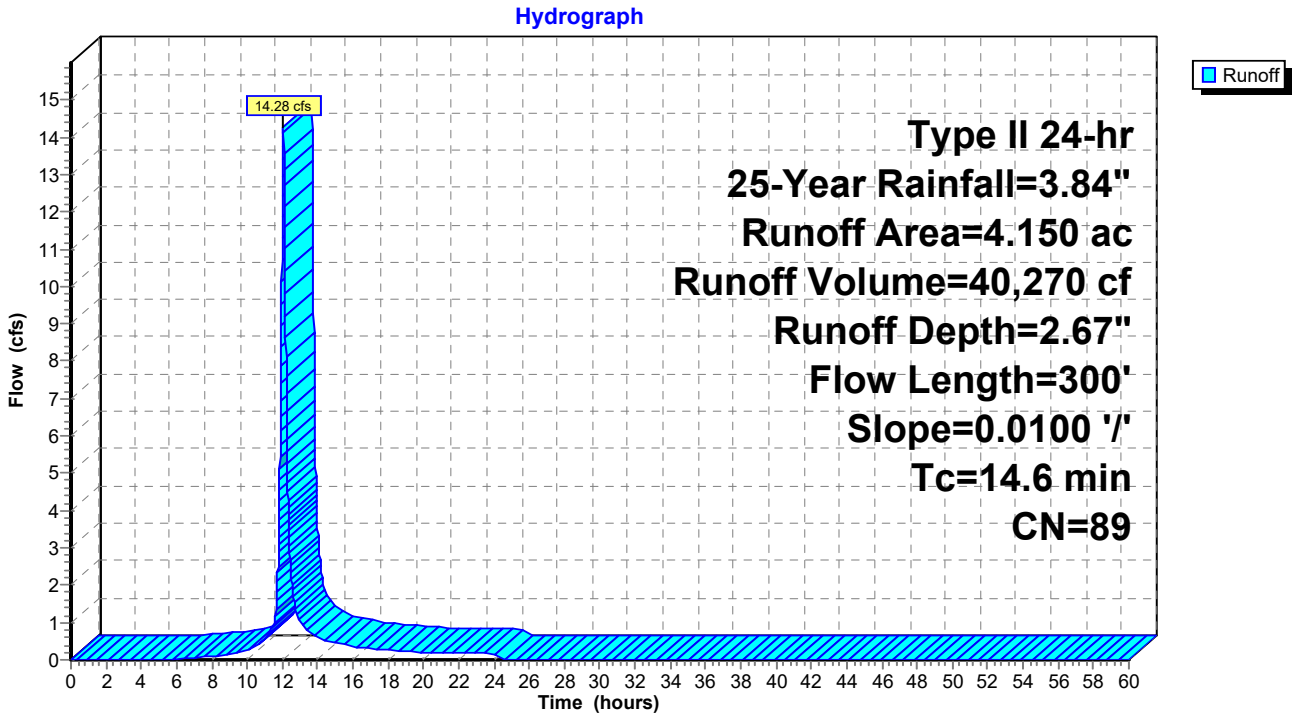
Runoff = 14.28 cfs @ 12.06 hrs, Volume= 40,270 cf, Depth= 2.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=3.90"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=2.53 cfs 5,528 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=2.62"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=2.14 cfs 5,988 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=3.28"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=17.35 cfs 49,354 cf

Total Runoff Area = 225,205 sf Runoff Volume = 60,871 cf Average Runoff Depth = 3.24"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

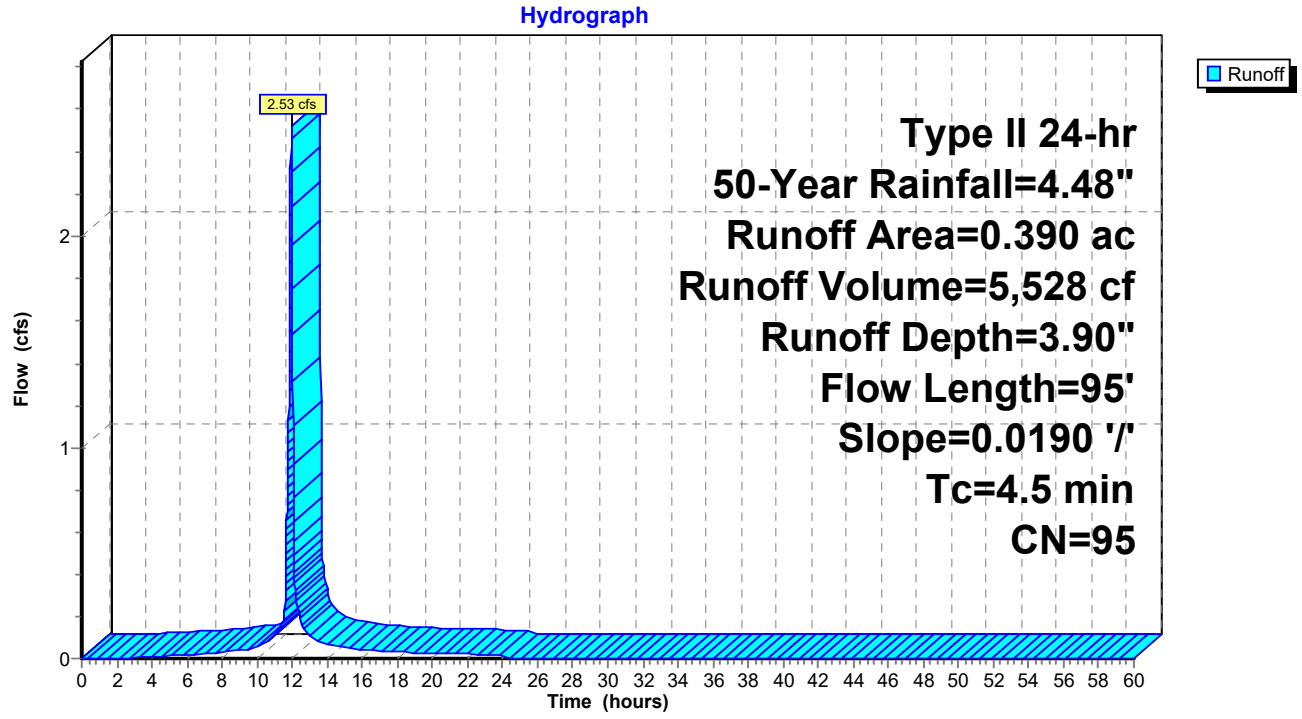
Runoff = 2.53 cfs @ 11.95 hrs, Volume= 5,528 cf, Depth= 3.90"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=4.48"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

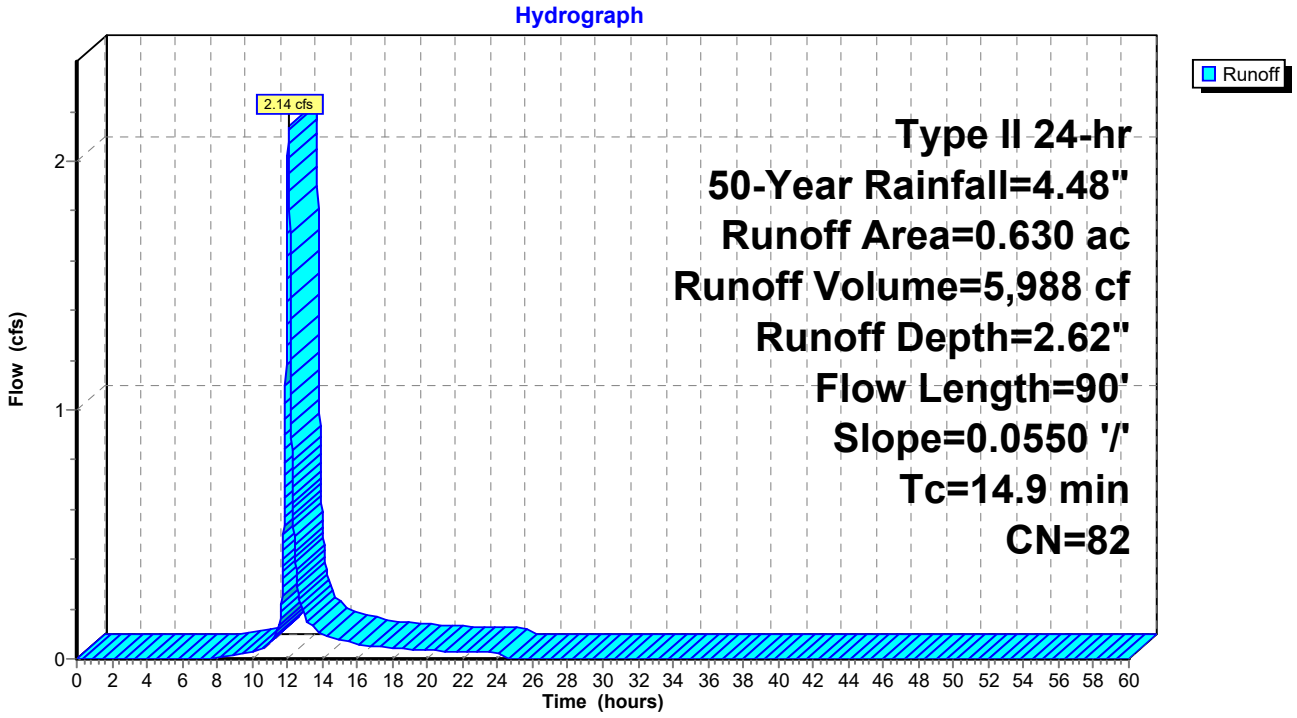
Runoff = 2.14 cfs @ 12.07 hrs, Volume= 5,988 cf, Depth= 2.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=4.48"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

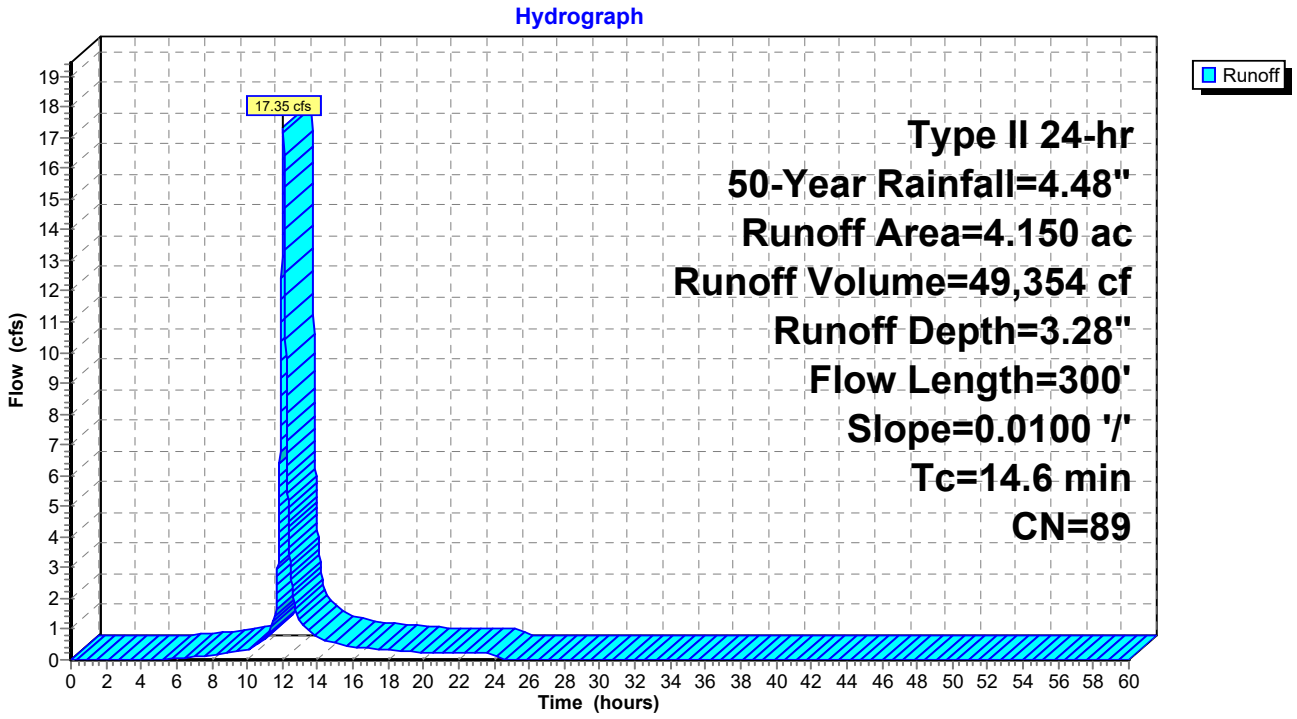
Runoff = 17.35 cfs @ 12.06 hrs, Volume= 49,354 cf, Depth= 3.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=4.48"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=0.390 ac 0.00% Impervious Runoff Depth=4.65"
Flow Length=95' Slope=0.0190 '/' Tc=4.5 min CN=95 Runoff=2.98 cfs 6,579 cf

Subcatchment2S: East Runoff Area=0.630 ac 0.00% Impervious Runoff Depth=3.29"
Flow Length=90' Slope=0.0550 '/' Tc=14.9 min CN=82 Runoff=2.68 cfs 7,514 cf

Subcatchment3S: South Runoff Area=4.150 ac 22.89% Impervious Runoff Depth=3.99"
Flow Length=300' Slope=0.0100 '/' Tc=14.6 min CN=89 Runoff=20.94 cfs 60,145 cf

Total Runoff Area = 225,205 sf Runoff Volume = 74,238 cf Average Runoff Depth = 3.96"
81.62% Pervious = 183,823 sf 18.38% Impervious = 41,382 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

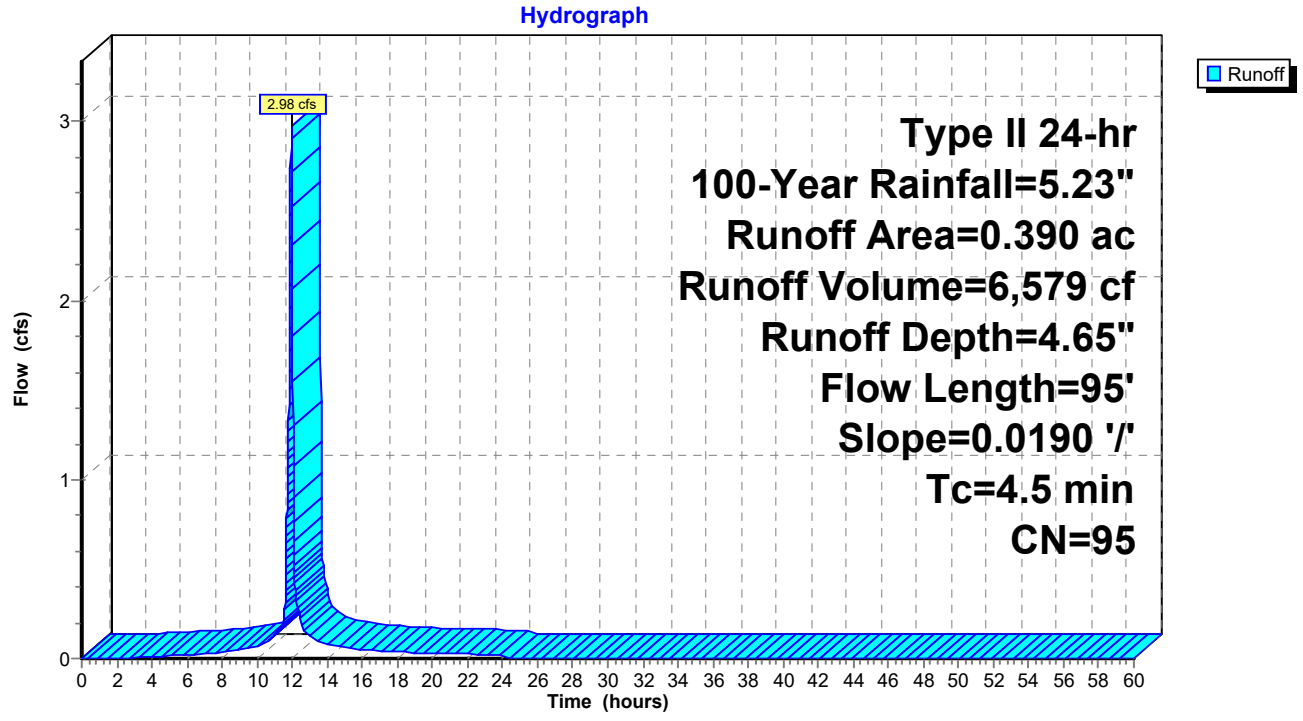
Runoff = 2.98 cfs @ 11.95 hrs, Volume= 6,579 cf, Depth= 4.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.350	96	Gravel surface, HSG D
0.040	84	50-75% Grass cover, Fair, HSG D
0.390	95	Weighted Average
0.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.0190	0.35		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

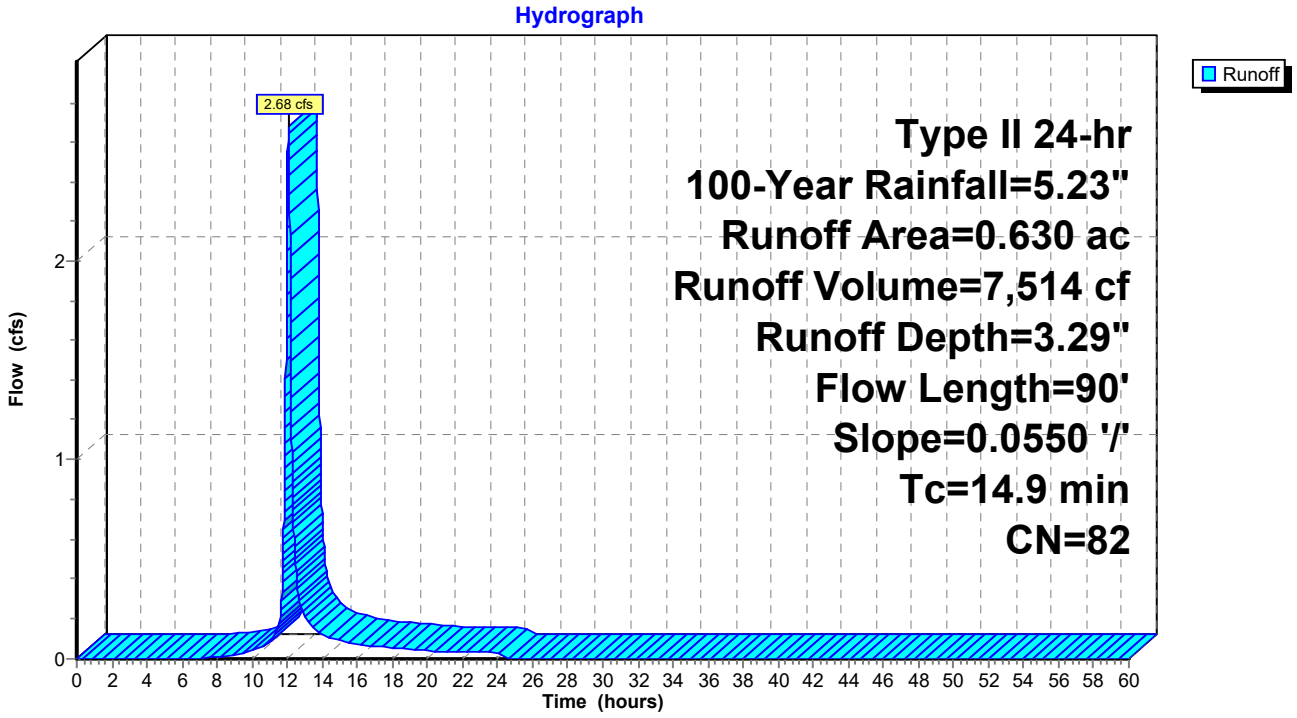
Runoff = 2.68 cfs @ 12.07 hrs, Volume= 7,514 cf, Depth= 3.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.630	82	Woods/grass comb., Fair, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	90	0.0550	0.10		**Sheet Flow, woods/grass** Woods: Light underbrush n= 0.400 P2= 2.50"

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: South

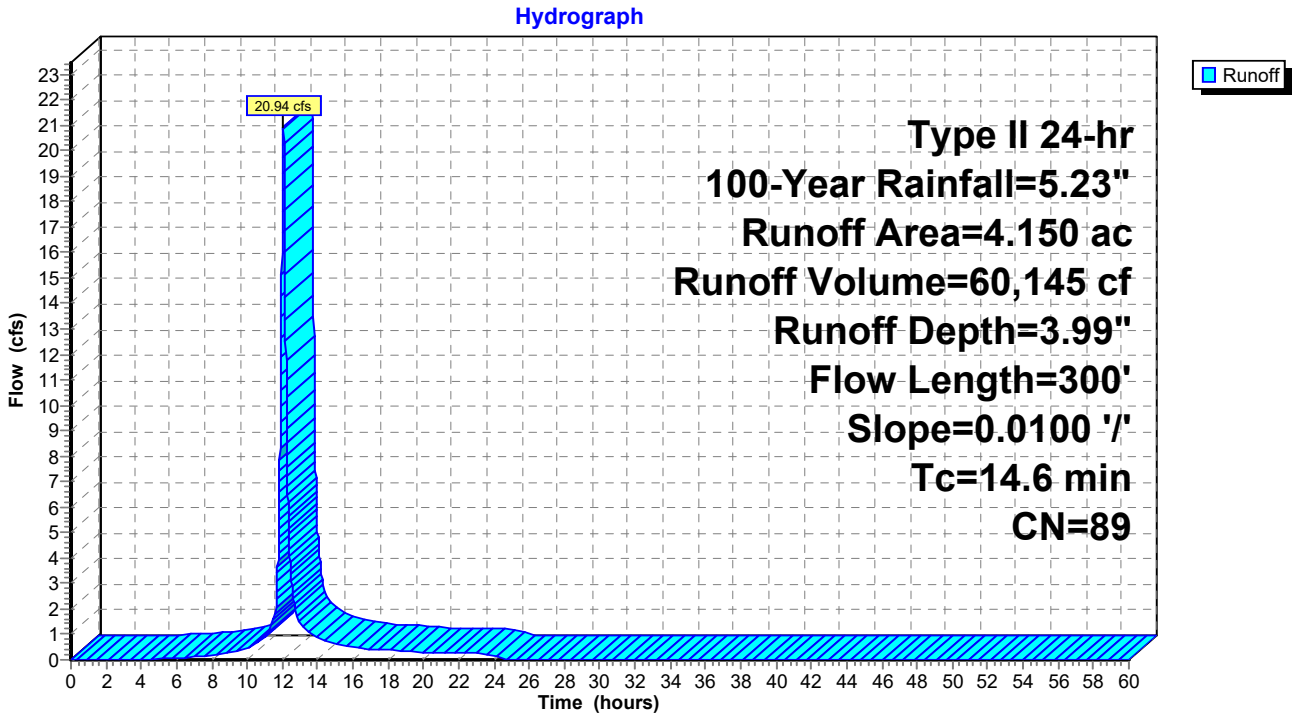
Runoff = 20.94 cfs @ 12.06 hrs, Volume= 60,145 cf, Depth= 3.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.950	98	Paved parking, HSG D
1.000	96	Gravel surface, HSG D
0.250	84	50-75% Grass cover, Fair, HSG D
1.950	82	Woods/grass comb., Fair, HSG D
4.150	89	Weighted Average
3.200		77.11% Pervious Area
0.950		22.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	300	0.0100	0.34		**Sheet Flow, gravel** Fallow n= 0.050 P2= 2.50"

Subcatchment 3S: South



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Proposed Runoff

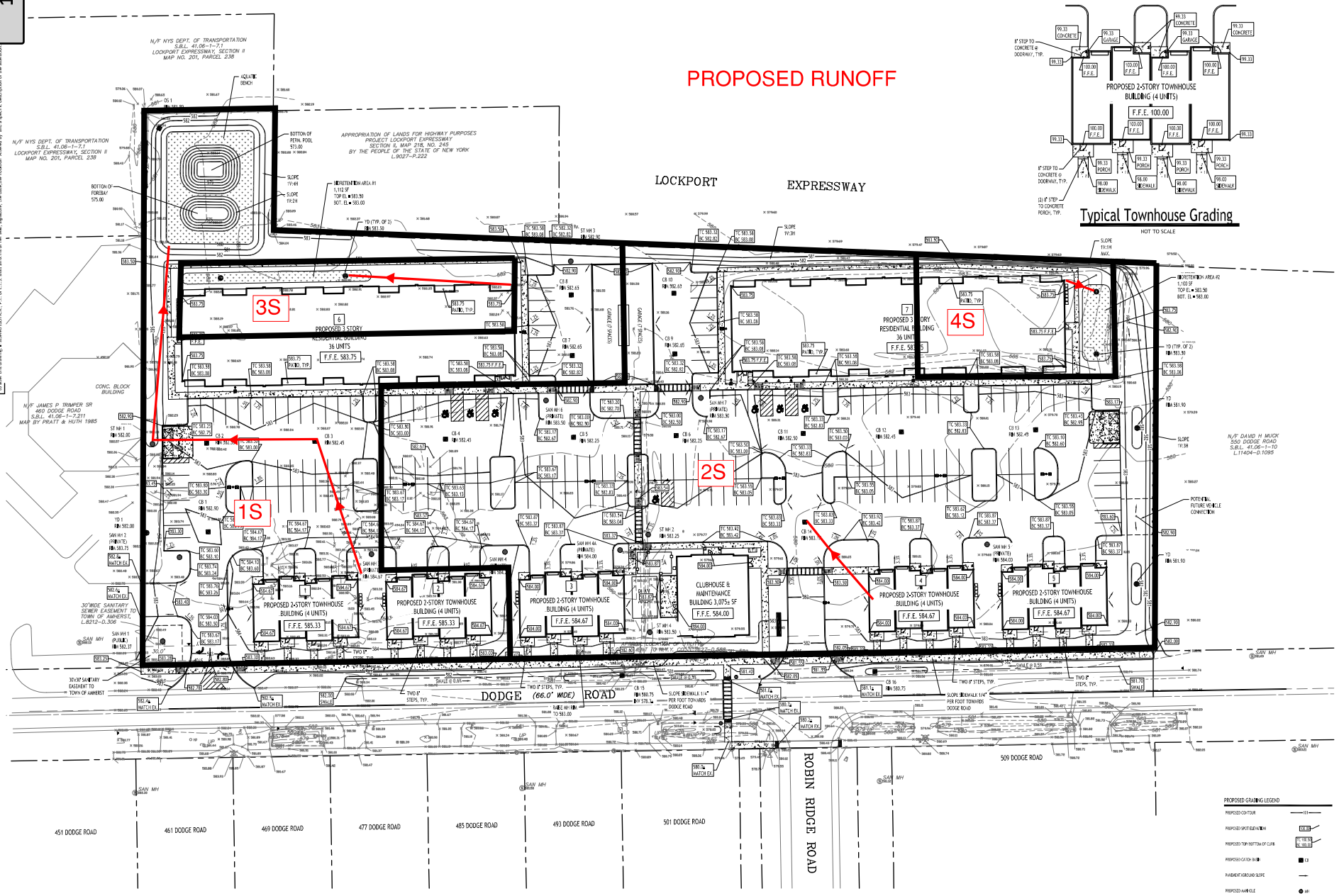
Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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© CARMINA WOOD DESIGN

PROPOSED RUNOFF



Grading Plan
SCALE: 1"=30'

Typical Townhouse Grading
NOT TO SCALE

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

30' 0 30' 60Ft.

CARMINAWOOD DESIGN
80 Stiles City Row, Suite 100
Buffalo, NY 14202
Phone: (716) 842-3165

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. per Town & ECDPW comments	7/21/23
3	Rev. per Town comments	8/10/23
4	Rev. per Town comments	12/8/23
5	Rev. per Town comments	1/27/25

DRAWING NAME:
Grading Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
C-200

Project No: 22.296

Events for Pond 1P: Wet Pond

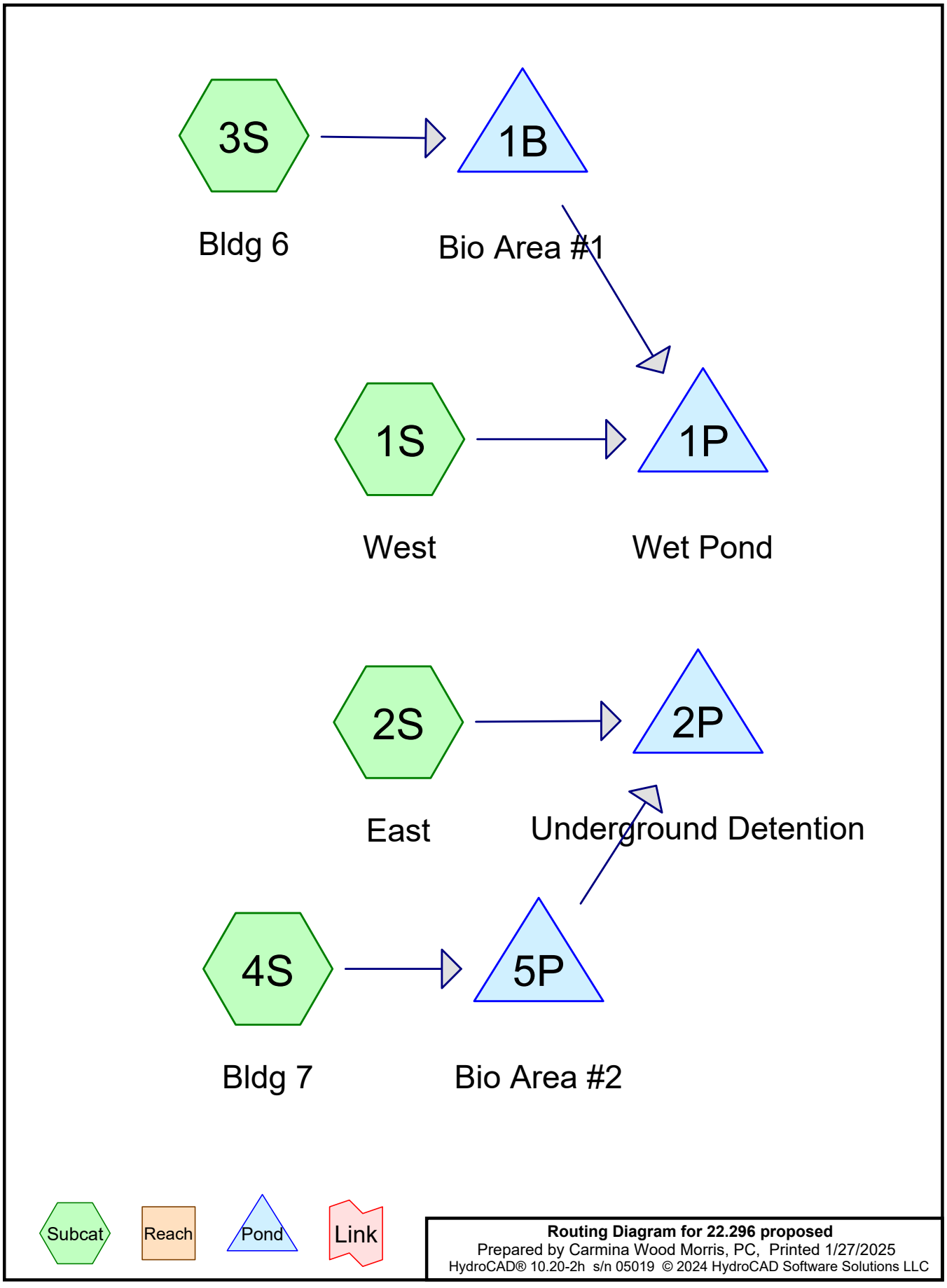
Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	4.25	1.01	580.39	2,344
2-Year	5.31	1.17	580.52	3,145
5-Year	6.89	1.40	580.72	4,403
10-Year	8.34	1.61	580.92	5,751
25-Year	10.95	1.89	581.24	7,974
50-Year	13.12	2.12	581.54	10,111
100-Year	**15.61**	**2.35**	**581.88**	**12,683**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Events for Pond 2P: Underground Detention

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	3.85	1.64	579.54	3,629
2-Year	4.93	2.08	579.70	4,566
5-Year	6.58	2.53	579.96	6,084
10-Year	8.00	2.84	580.24	7,653
25-Year	10.15	3.45	580.69	10,042
50-Year	12.10	4.00	581.16	12,266
100-Year	**14.36**	**4.75**	**581.93**	**14,839**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	Type II 24-hr		Default	24.00	1	1.87	2
2	10-Year	Type II 24-hr		Default	24.00	1	3.14	2
3	25-Year	Type II 24-hr		Default	24.00	1	3.84	2
4	100-Year	Type II 24-hr		Default	24.00	1	5.23	2

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
73,616	80	>75% Grass cover, Good, HSG D (1S, 2S, 3S, 4S)
97,139	98	Paved parking, HSG D (1S, 2S, 3S, 4S)
54,450	98	Roofs, HSG D (1S, 2S, 3S, 4S)
225,205	**92**	**TOTAL AREA**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
0	HSG B	
0	HSG C	
225,205	HSG D	1S, 2S, 3S, 4S
0	Other	
225,205		**TOTAL AREA**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Su Nu
0	0	0	73,616	0	73,616	>75% Grass cover, Good	
0	0	0	97,139	0	97,139	Paved parking	
0	0	0	54,450	0	54,450	Roofs	
0	**0**	**0**	**225,205**	**0**	**225,205**	**TOTAL AREA**	

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	1S	0.00	0.00	335.0	0.0030	0.013	0.0	12.0	0.0
2	1B	580.50	580.28	22.0	0.0100	0.013	0.0	6.0	0.0
3	1P	579.50	579.40	20.0	0.0050	0.013	0.0	8.0	0.0
4	2P	578.67	578.30	100.0	0.0037	0.013	0.0	12.0	0.0
5	5P	580.50	579.95	70.0	0.0079	0.013	0.0	8.0	0.0

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=2.000 ac 65.00% Impervious Runoff Depth=1.12"
Flow Length=440' Tc=3.9 min CN=92 Runoff=4.25 cfs 8,140 cf

Subcatchment2S: East Runoff Area=2.620 ac 69.85% Impervious Runoff Depth=1.20"
Flow Length=75' Tc=16.6 min CN=93 Runoff=3.84 cfs 11,374 cf

Subcatchment3S: Bldg 6 Runoff Area=0.300 ac 66.67% Impervious Runoff Depth=1.12"
Flow Length=100' Slope=0.0050 '/' Tc=19.3 min CN=92 Runoff=0.38 cfs 1,221 cf

Subcatchment4S: Bldg 7 Runoff Area=0.250 ac 60.00% Impervious Runoff Depth=1.05"
Flow Length=20' Slope=0.0060 '/' Tc=5.0 min CN=91 Runoff=0.48 cfs 954 cf

Pond 1B: Bio Area #1 Peak Elev=583.55' Storage=501 cf Inflow=0.38 cfs 1,221 cf
Outflow=0.17 cfs 1,221 cf

Pond 1P: Wet Pond Peak Elev=580.39' Storage=2,344 cf Inflow=4.25 cfs 9,361 cf
8.0" Round Culvert n=0.013 L=20.0' S=0.0050 '/' Outflow=1.01 cfs 9,361 cf

Pond 2P: Underground Detention Peak Elev=579.54' Storage=3,629 cf Inflow=3.85 cfs 12,328 cf
12.0" Round Culvert n=0.013 L=100.0' S=0.0037 '/' Outflow=1.64 cfs 12,293 cf

Pond 5P: Bio Area #2 Peak Elev=583.51' Storage=510 cf Inflow=0.48 cfs 954 cf
Outflow=0.03 cfs 954 cf

Total Runoff Area = 225,205 sf Runoff Volume = 21,689 cf Average Runoff Depth = 1.16"
32.69% Pervious = 73,616 sf 67.31% Impervious = 151,589 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

[47] Hint: Peak is 218% of capacity of segment #2

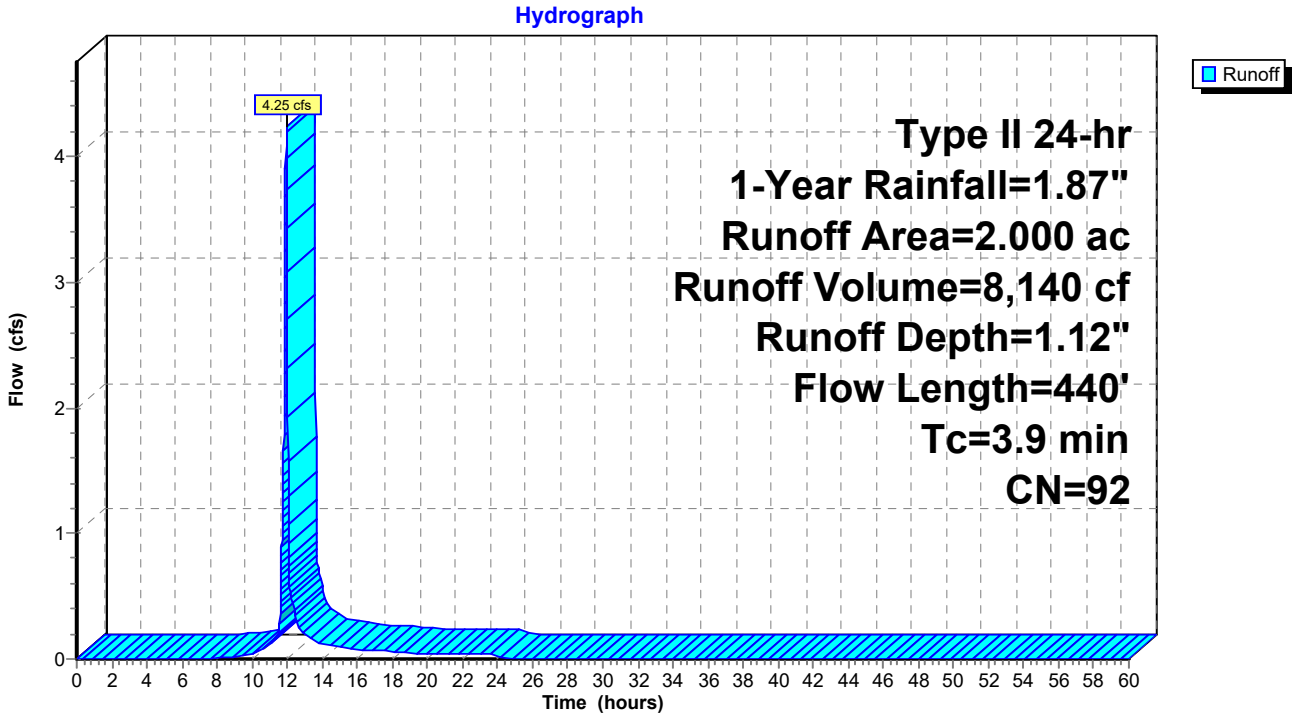
Runoff = 4.25 cfs @ 11.95 hrs, Volume= 8,140 cf, Depth= 1.12"
Routed to Pond 1P : Wet Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.470	98	Roofs, HSG D
0.830	98	Paved parking, HSG D
0.700	80	>75% Grass cover, Good, HSG D
2.000	92	Weighted Average
0.700		35.00% Pervious Area
1.300		65.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	105	0.0120	1.00		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
2.2	335	0.0030	2.48	1.95	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.9	440	Total			

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

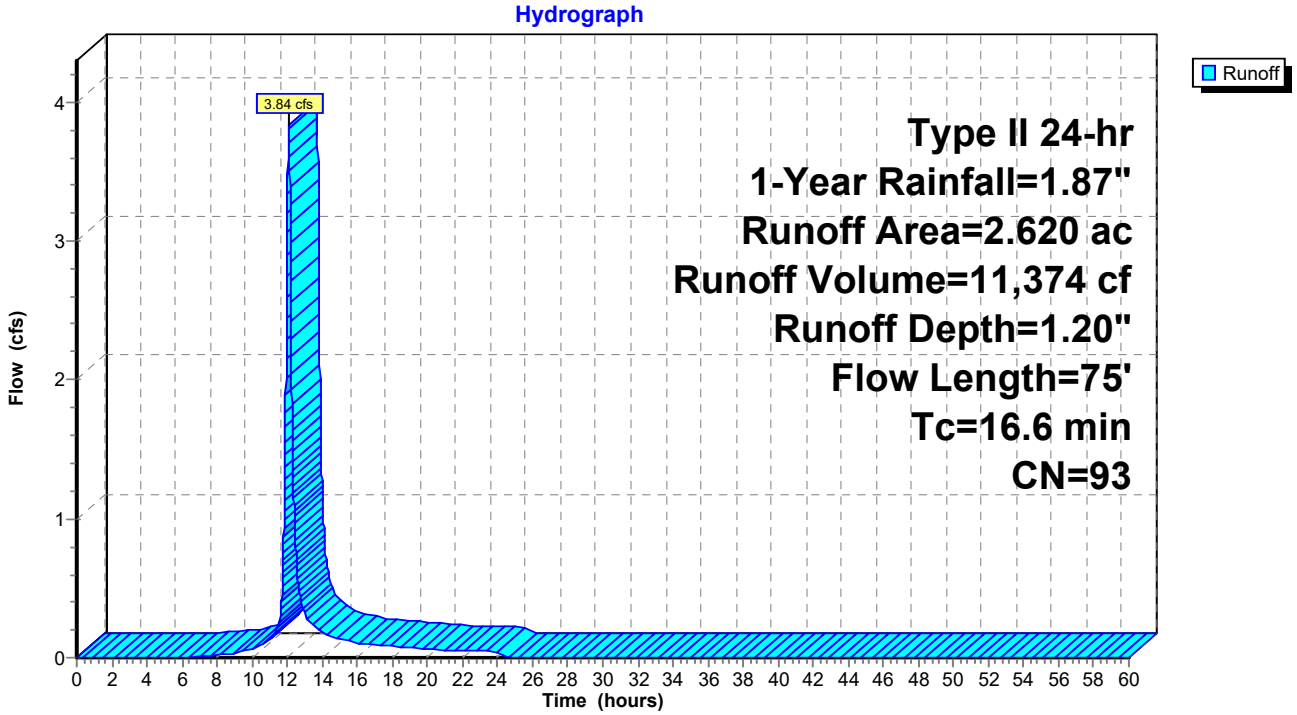
Runoff = 3.84 cfs @ 12.08 hrs, Volume= 11,374 cf, Depth= 1.20"
Routed to Pond 2P : Underground Detention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.550	98	Roofs, HSG D
1.280	98	Paved parking, HSG D
0.790	80	>75% Grass cover, Good, HSG D
2.620	93	Weighted Average
0.790		30.15% Pervious Area
1.830		69.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	50	0.0020	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
0.6	25	0.0100	0.70		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
16.6	75	Total			

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: Bldg 6

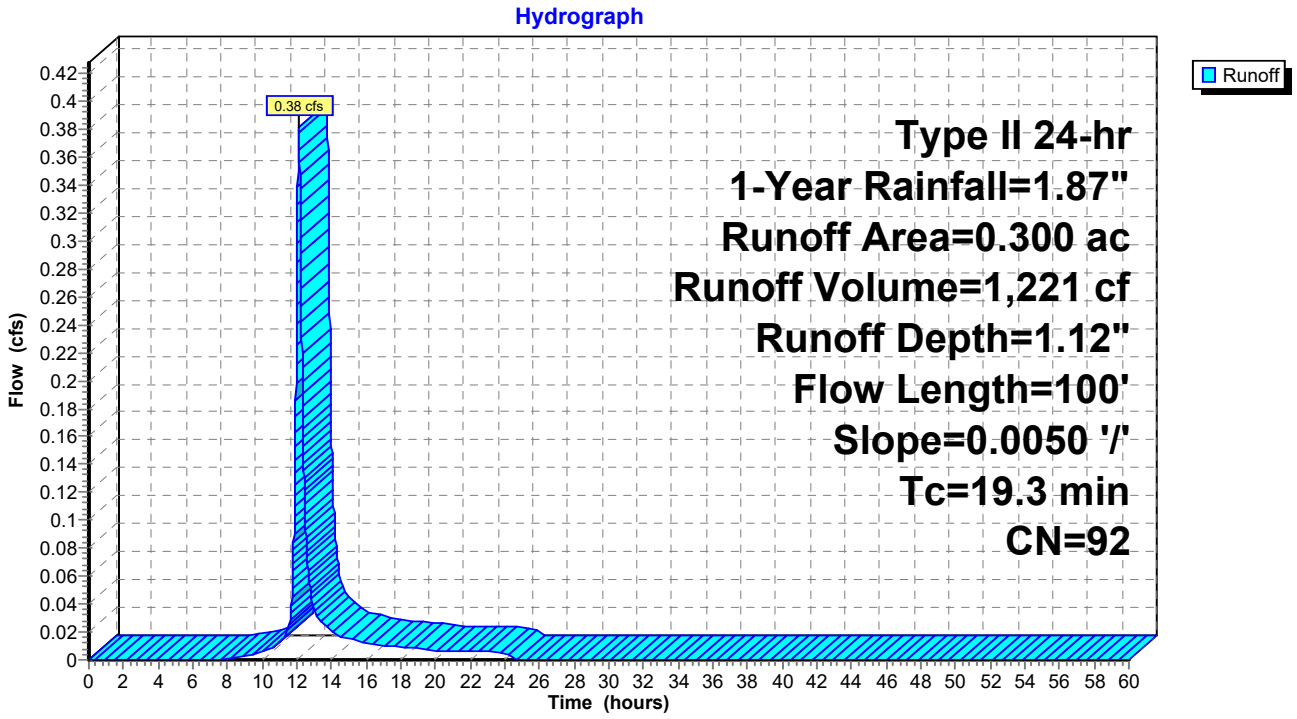
Runoff = 0.38 cfs @ 12.12 hrs, Volume= 1,221 cf, Depth= 1.12"
Routed to Pond 1B : Bio Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.130	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.070	98	Paved parking, HSG D
0.300	92	Weighted Average
0.100		33.33% Pervious Area
0.200		66.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.3	100	0.0050	0.09		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 3S: Bldg 6



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 4S: Bldg 7

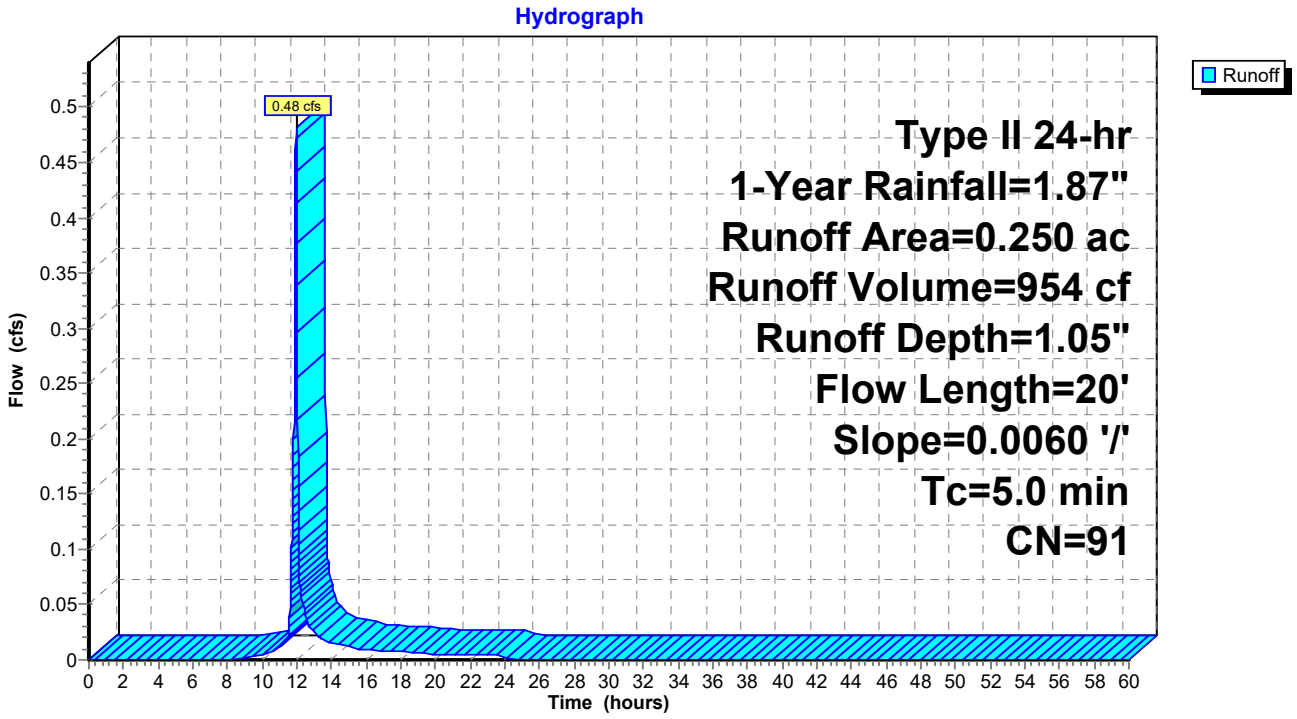
Runoff = 0.48 cfs @ 11.96 hrs, Volume= 954 cf, Depth= 1.05"
Routed to Pond 5P : Bio Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=1.87"

Area (ac)	CN	Description
0.100	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.050	98	Paved parking, HSG D
0.250	91	Weighted Average
0.100		40.00% Pervious Area
0.150		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	20	0.0060	0.07		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 4S: Bldg 7



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1B: Bio Area #1

Inflow Area = 13,068 sf, 66.67% Impervious, Inflow Depth = 1.12" for 1-Year event
Inflow = 0.38 cfs @ 12.12 hrs, Volume= 1,221 cf
Outflow = 0.17 cfs @ 12.34 hrs, Volume= 1,221 cf, Atten= 54%, Lag= 13.3 min
Primary = 0.17 cfs @ 12.34 hrs, Volume= 1,221 cf
Routed to Pond 1P : Wet Pond

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.55' @ 12.34 hrs Surf.Area= 1,196 sf Storage= 501 cf

Plug-Flow detention time= 494.4 min calculated for 1,221 cf (100% of inflow)
Center-of-Mass det. time= 494.3 min (1,322.3 - 827.9)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	767 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

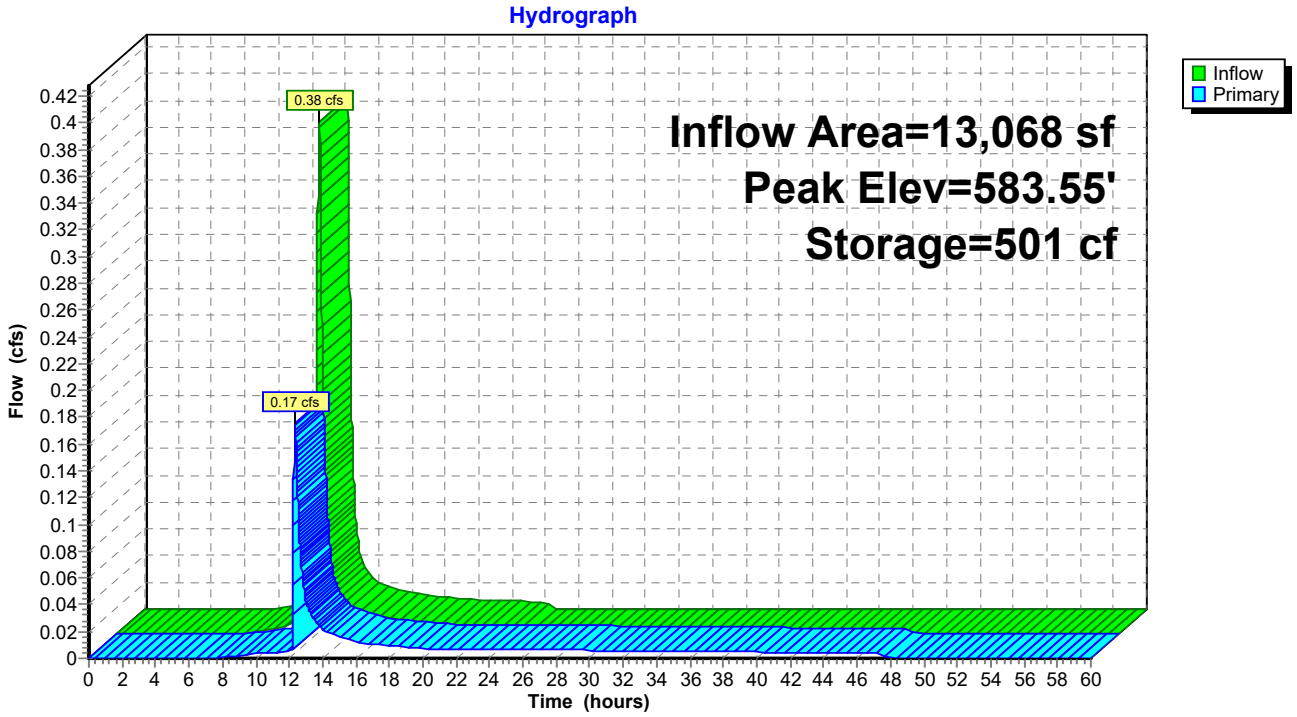
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	645	0	0
583.50	1,112	439	439
583.75	1,510	328	767

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**6.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 580.28' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.17 cfs @ 12.34 hrs HW=583.55' (Free Discharge)
└**1=Culvert** (Passes 0.17 cfs of 1.46 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 0.17 cfs @ 0.75 fps)
└**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1B: Bio Area #1



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1P: Wet Pond

[44] Hint: Outlet device #1 is below defined storage
[79] Warning: Submerged Pond 1B Primary device # 1 OUTLET by 0.11'

Inflow Area = 100,188 sf, 65.22% Impervious, Inflow Depth = 1.12" for 1-Year event
Inflow = 4.25 cfs @ 11.95 hrs, Volume= 9,361 cf
Outflow = 1.01 cfs @ 12.06 hrs, Volume= 9,361 cf, Atten= 76%, Lag= 7.0 min
Primary = 1.01 cfs @ 12.06 hrs, Volume= 9,361 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 580.39' @ 12.06 hrs Surf.Area= 6,191 sf Storage= 2,344 cf

Plug-Flow detention time= 15.3 min calculated for 9,361 cf (100% of inflow)
Center-of-Mass det. time= 15.3 min (895.3 - 880.0)

Volume	Invert	Avail.Storage	Storage Description
#1	580.00'	13,600 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

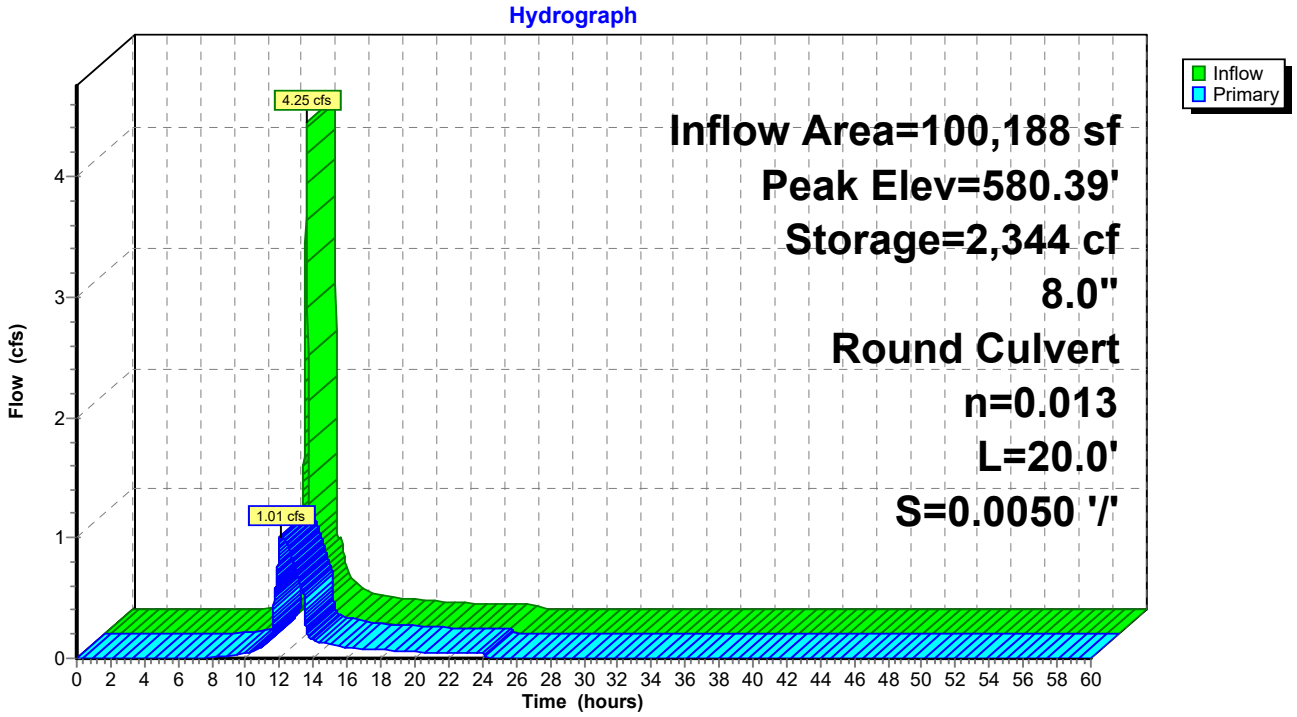
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
580.00	5,800	0	0
581.00	6,800	6,300	6,300
582.00	7,800	7,300	13,600

Device	Routing	Invert	Outlet Devices
#1	Primary	579.50'	**8.0" Round Culvert** L= 20.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 579.50' / 579.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.99 cfs @ 12.06 hrs HW=580.39' (Free Discharge)
↑**1=Culvert** (Barrel Controls 0.99 cfs @ 2.85 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1P: Wet Pond



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 2P: Underground Detention

Inflow Area = 125,017 sf, 68.99% Impervious, Inflow Depth = 1.18" for 1-Year event
Inflow = 3.85 cfs @ 12.08 hrs, Volume= 12,328 cf
Outflow = 1.64 cfs @ 12.29 hrs, Volume= 12,293 cf, Atten= 57%, Lag= 12.5 min
Primary = 1.64 cfs @ 12.29 hrs, Volume= 12,293 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 579.54' @ 12.29 hrs Surf.Area= 7,226 sf Storage= 3,629 cf

Plug-Flow detention time= 76.0 min calculated for 12,290 cf (100% of inflow)
Center-of-Mass det. time= 70.8 min (944.0 - 873.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	578.67'	6,515 cf	**20.50'W x 352.50'L x 3.50'H Field A** 25,292 cf Overall - 9,004 cf Embedded = 16,287 cf x 40.0% Voids
#2A	579.17'	9,004 cf	**ADS_StormTech SC-740 +Cap** x 196 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 196 Chambers in 4 Rows
		15,519 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	578.67'	**12.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.67' / 578.30' S= 0.0037 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.64 cfs @ 12.29 hrs HW=579.54' (Free Discharge)
↑—**1=Culvert** (Barrel Controls 1.64 cfs @ 3.04 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention - Chamber Wizard Field A

Chamber Model = ADS_StormTechSC-740 +Cap (ADS StormTech®SC-740 with cap length)
Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf
Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

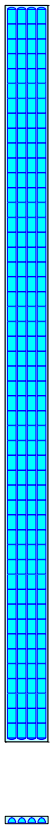
49 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 350.50' Row Length +12.0" End Stone x 2 = 352.50' Base Length
4 Rows x 51.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 20.50' Base Width
6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

196 Chambers x 45.9 cf = 9,004.2 cf Chamber Storage

25,291.6 cf Field - 9,004.2 cf Chambers = 16,287.4 cf Stone x 40.0% Voids = 6,515.0 cf Stone Storage

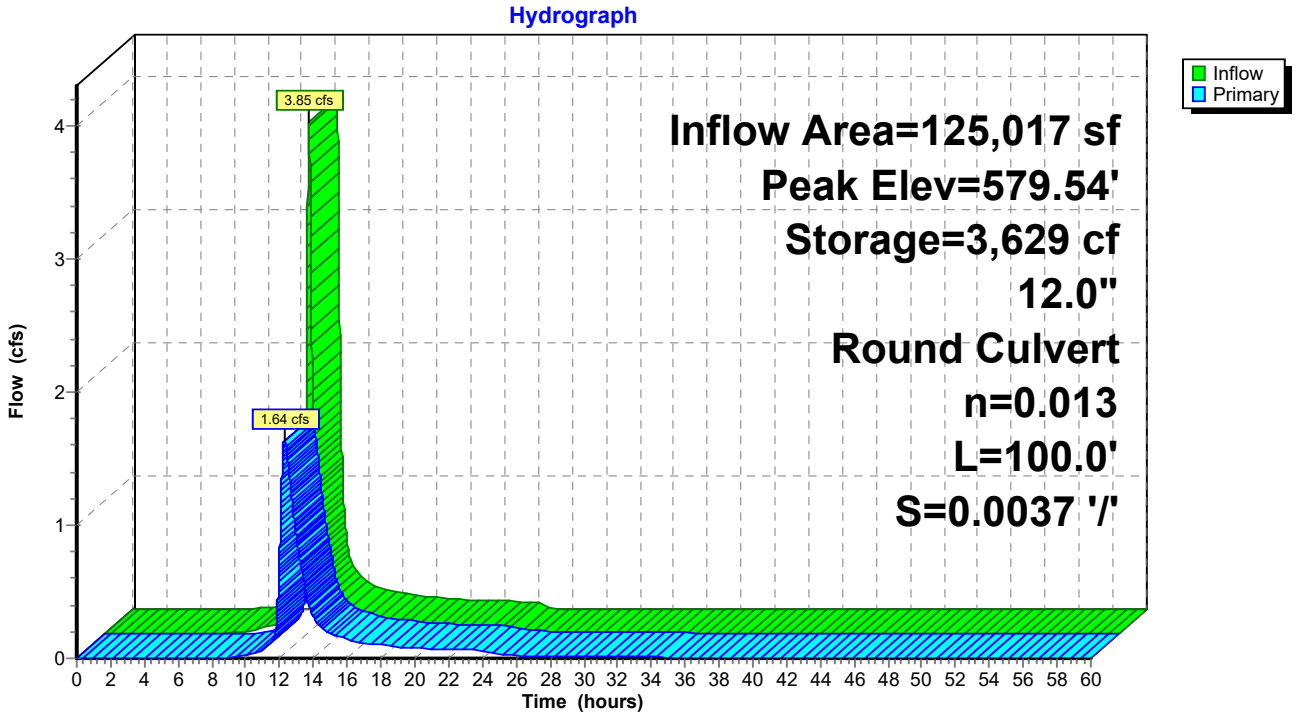
Chamber Storage + Stone Storage = 15,519.2 cf = 0.356 af
Overall Storage Efficiency = 61.4%
Overall System Size = 352.50' x 20.50' x 3.50'

196 Chambers
936.7 cy Field
603.2 cy Stone



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 5P: Bio Area #2

Inflow Area = 10,890 sf, 60.00% Impervious, Inflow Depth = 1.05" for 1-Year event
Inflow = 0.48 cfs @ 11.96 hrs, Volume= 954 cf
Outflow = 0.03 cfs @ 12.66 hrs, Volume= 954 cf, Atten= 94%, Lag= 41.9 min
Primary = 0.03 cfs @ 12.66 hrs, Volume= 954 cf
Routed to Pond 2P : Underground Detention

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.51' @ 12.66 hrs Surf.Area= 1,135 sf Storage= 510 cf

Plug-Flow detention time= 693.3 min calculated for 954 cf (100% of inflow)
Center-of-Mass det. time= 693.2 min (1,513.4 - 820.2)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

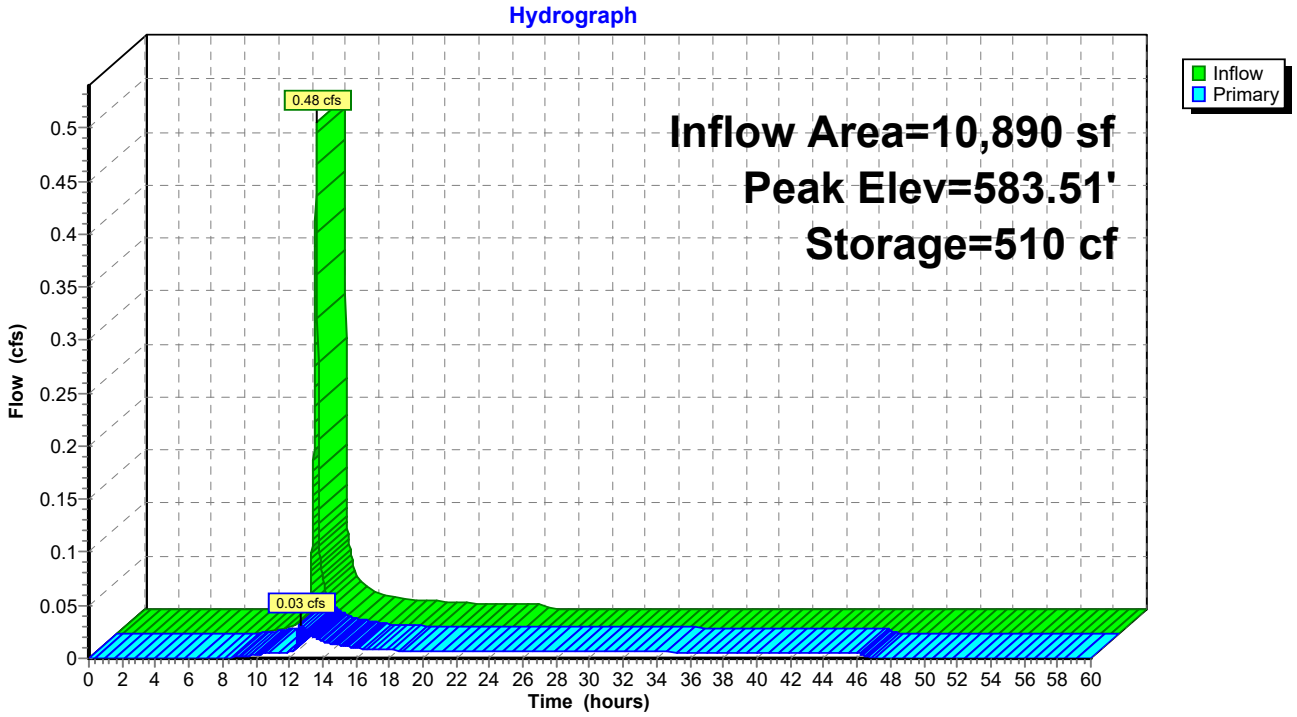
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	875	0	0
583.50	1,100	494	494
583.75	1,700	350	844

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**8.0" Round Culvert** L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 579.95' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.03 cfs @ 12.66 hrs HW=583.51' (Free Discharge)
└**1=Culvert** (Passes 0.03 cfs of 2.08 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 0.02 cfs @ 0.39 fps)
└**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 5P: Bio Area #2



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=2.000 ac 65.00% Impervious Runoff Depth=2.29"
Flow Length=440' Tc=3.9 min CN=92 Runoff=8.34 cfs 16,652 cf

Subcatchment2S: East Runoff Area=2.620 ac 69.85% Impervious Runoff Depth=2.39"
Flow Length=75' Tc=16.6 min CN=93 Runoff=7.47 cfs 22,713 cf

Subcatchment3S: Bldg 6 Runoff Area=0.300 ac 66.67% Impervious Runoff Depth=2.29"
Flow Length=100' Slope=0.0050 '/' Tc=19.3 min CN=92 Runoff=0.77 cfs 2,498 cf

Subcatchment4S: Bldg 7 Runoff Area=0.250 ac 60.00% Impervious Runoff Depth=2.20"
Flow Length=20' Slope=0.0060 '/' Tc=5.0 min CN=91 Runoff=0.97 cfs 1,998 cf

Pond 1B: Bio Area #1 Peak Elev=583.64' Storage=609 cf Inflow=0.77 cfs 2,498 cf
Outflow=0.72 cfs 2,498 cf

Pond 1P: Wet Pond Peak Elev=580.92' Storage=5,751 cf Inflow=8.34 cfs 19,150 cf
8.0" Round Culvert n=0.013 L=20.0' S=0.0050 '/' Outflow=1.61 cfs 19,150 cf

Pond 2P: Underground Detention Peak Elev=580.24' Storage=7,653 cf Inflow=8.00 cfs 24,711 cf
12.0" Round Culvert n=0.013 L=100.0' S=0.0037 '/' Outflow=2.84 cfs 24,672 cf

Pond 5P: Bio Area #2 Peak Elev=583.65' Storage=681 cf Inflow=0.97 cfs 1,998 cf
Outflow=0.78 cfs 1,998 cf

Total Runoff Area = 225,205 sf Runoff Volume = 43,861 cf Average Runoff Depth = 2.34"
32.69% Pervious = 73,616 sf 67.31% Impervious = 151,589 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

[47] Hint: Peak is 427% of capacity of segment #2

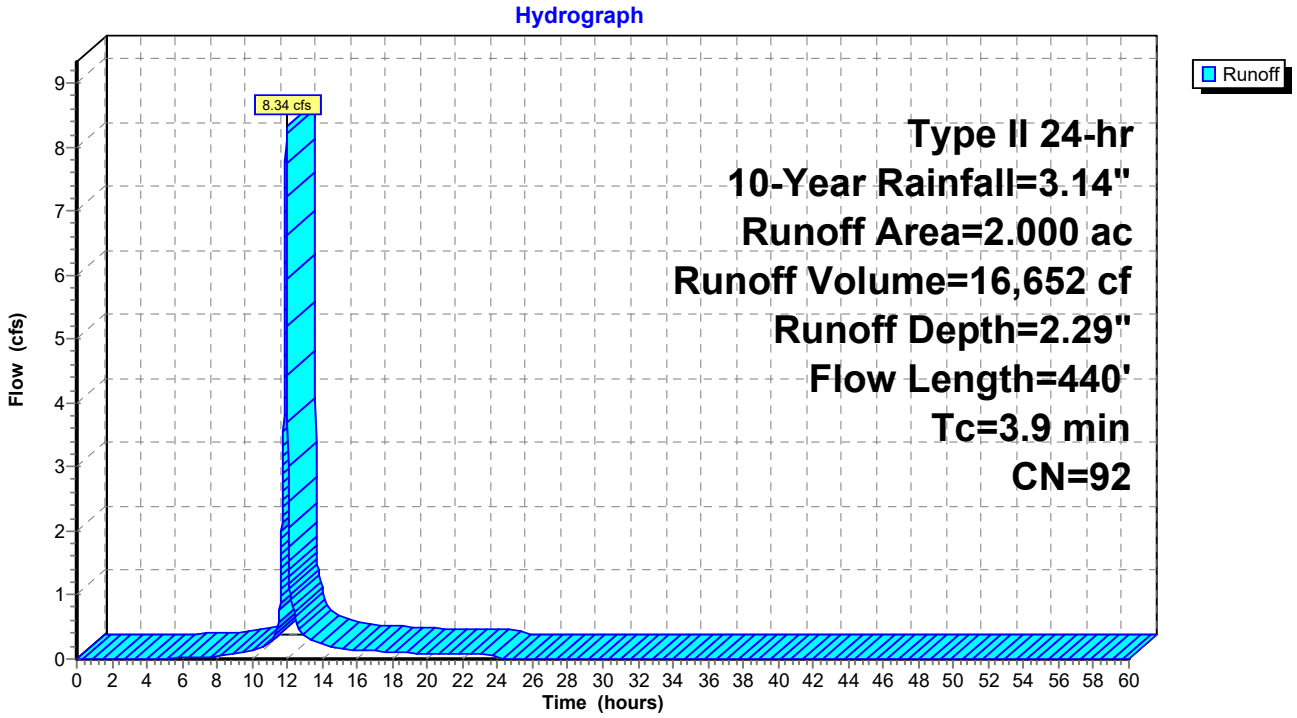
Runoff = 8.34 cfs @ 11.95 hrs, Volume= 16,652 cf, Depth= 2.29"
Routed to Pond 1P : Wet Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.470	98	Roofs, HSG D
0.830	98	Paved parking, HSG D
0.700	80	>75% Grass cover, Good, HSG D
2.000	92	Weighted Average
0.700		35.00% Pervious Area
1.300		65.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	105	0.0120	1.00		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
2.2	335	0.0030	2.48	1.95	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.9	440	Total			

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

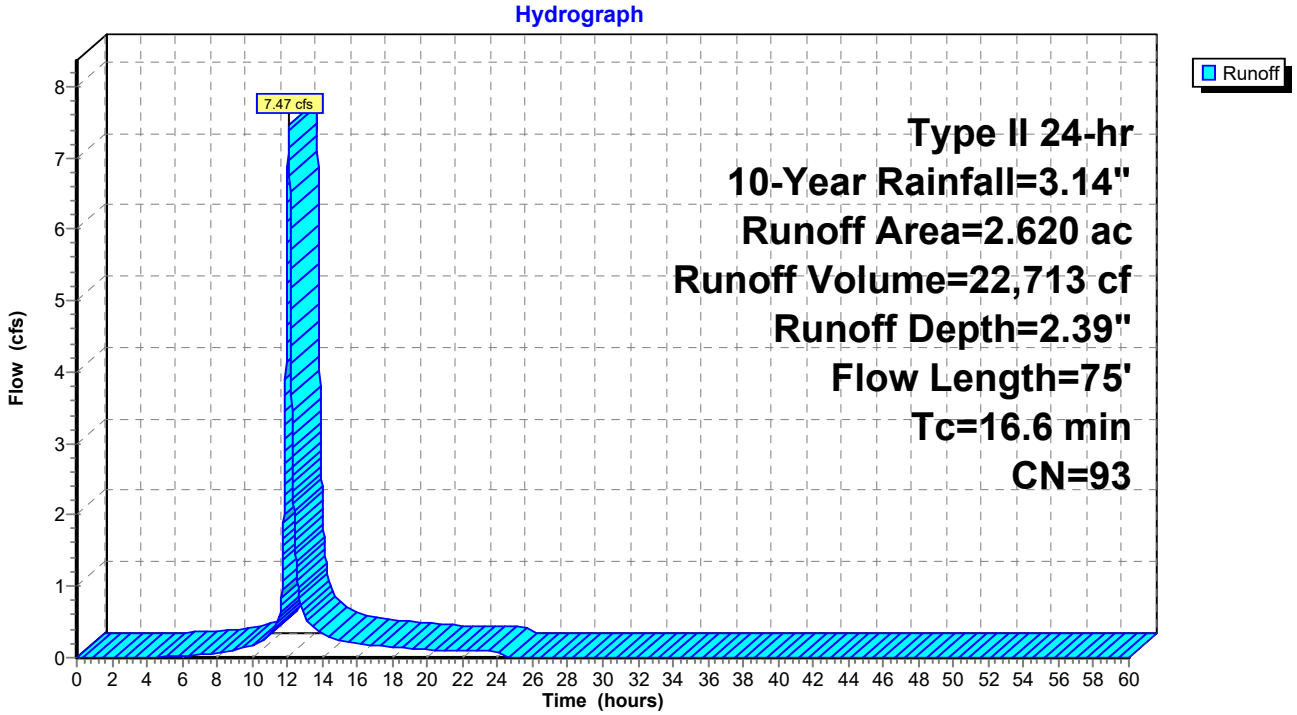
Runoff = 7.47 cfs @ 12.08 hrs, Volume= 22,713 cf, Depth= 2.39"
Routed to Pond 2P : Underground Detention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.550	98	Roofs, HSG D
1.280	98	Paved parking, HSG D
0.790	80	>75% Grass cover, Good, HSG D
2.620	93	Weighted Average
0.790		30.15% Pervious Area
1.830		69.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	50	0.0020	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
0.6	25	0.0100	0.70		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
16.6	75	Total			

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: Bldg 6

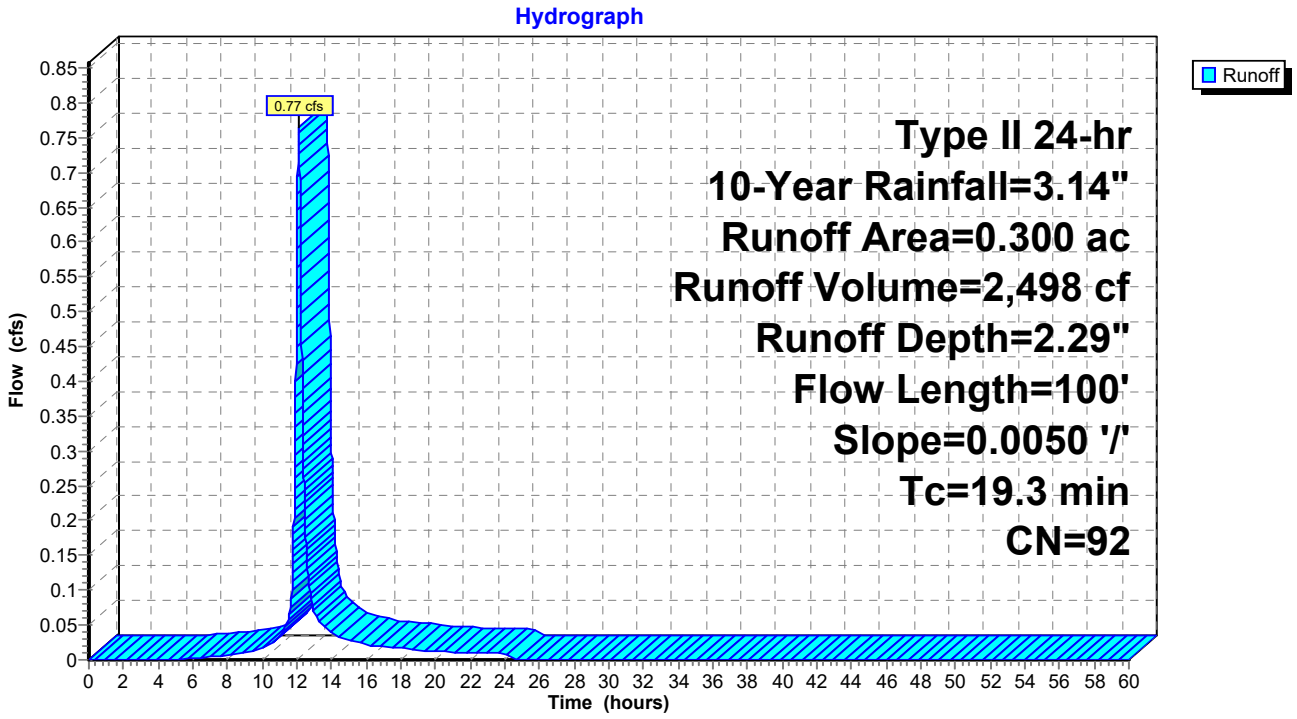
Runoff = 0.77 cfs @ 12.11 hrs, Volume= 2,498 cf, Depth= 2.29"
Routed to Pond 1B : Bio Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.130	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.070	98	Paved parking, HSG D
0.300	92	Weighted Average
0.100		33.33% Pervious Area
0.200		66.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.3	100	0.0050	0.09		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 3S: Bldg 6



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 4S: Bldg 7

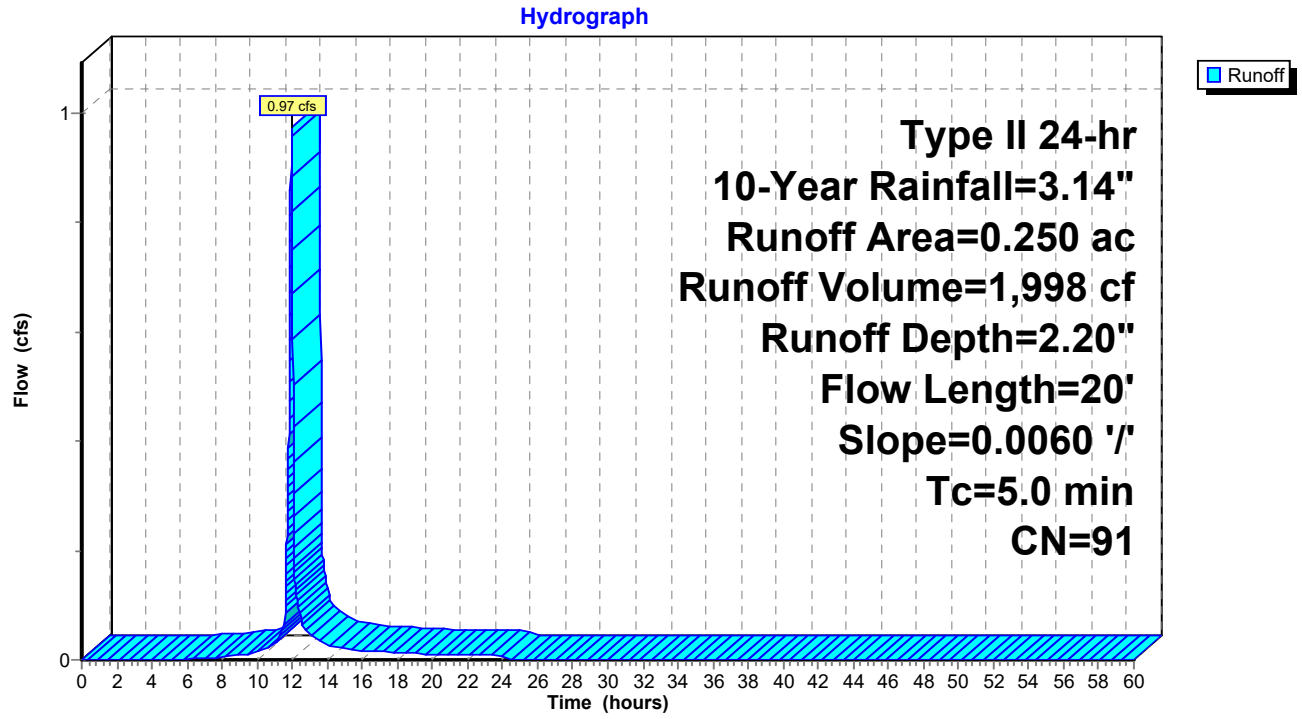
Runoff = 0.97 cfs @ 11.96 hrs, Volume= 1,998 cf, Depth= 2.20"
Routed to Pond 5P : Bio Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.14"

Area (ac)	CN	Description
0.100	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.050	98	Paved parking, HSG D
0.250	91	Weighted Average
0.100		40.00% Pervious Area
0.150		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	20	0.0060	0.07		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 4S: Bldg 7



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1B: Bio Area #1

Inflow Area = 13,068 sf, 66.67% Impervious, Inflow Depth = 2.29" for 10-Year event
Inflow = 0.77 cfs @ 12.11 hrs, Volume= 2,498 cf
Outflow = 0.72 cfs @ 12.17 hrs, Volume= 2,498 cf, Atten= 6%, Lag= 3.1 min
Primary = 0.72 cfs @ 12.17 hrs, Volume= 2,498 cf
Routed to Pond 1P : Wet Pond

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.64' @ 12.17 hrs Surf.Area= 1,333 sf Storage= 609 cf

Plug-Flow detention time= 258.8 min calculated for 2,498 cf (100% of inflow)
Center-of-Mass det. time= 258.8 min (1,066.4 - 807.6)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	767 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

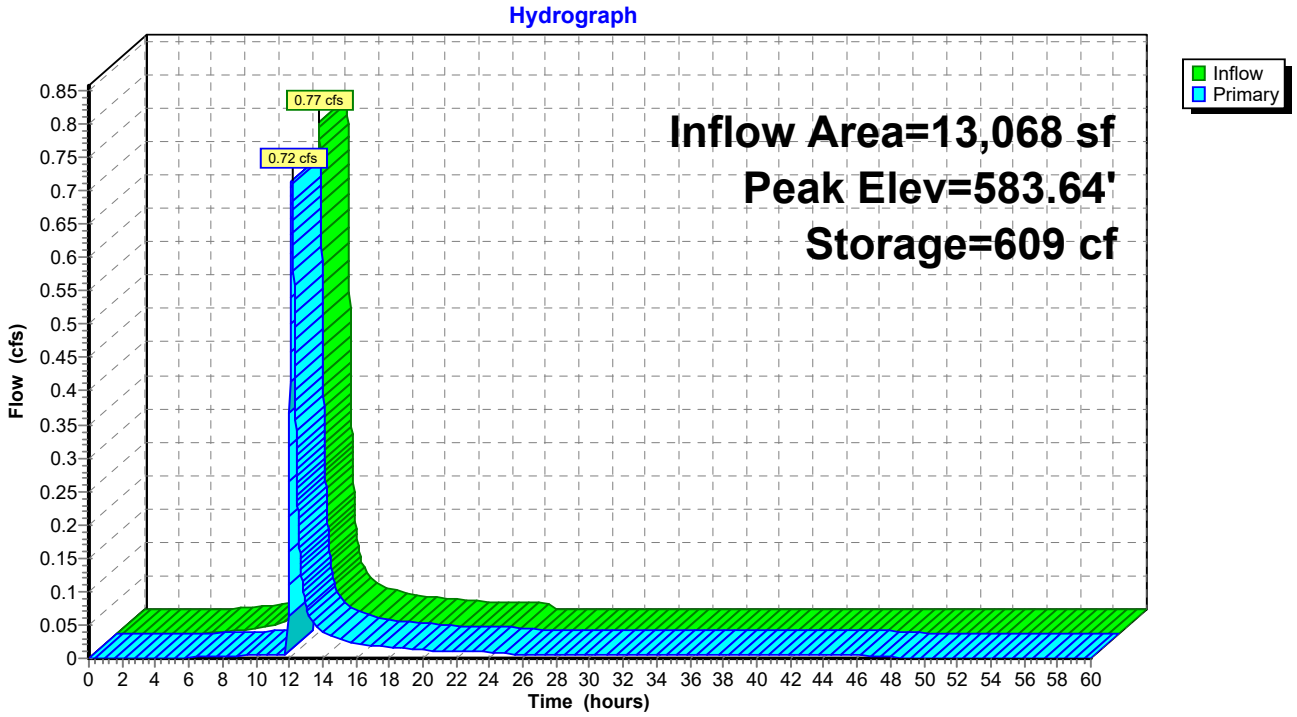
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	645	0	0
583.50	1,112	439	439
583.75	1,510	328	767

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**6.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 580.28' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.72 cfs @ 12.17 hrs HW=583.64' (Free Discharge)
└─**1=Culvert** (Passes 0.72 cfs of 1.48 cfs potential flow)
├─**2=Orifice/Grate** (Weir Controls 0.71 cfs @ 1.22 fps)
└─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1B: Bio Area #1



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1P: Wet Pond

[44] Hint: Outlet device #1 is below defined storage
[79] Warning: Submerged Pond 1B Primary device # 1 INLET by 0.42'

Inflow Area = 100,188 sf, 65.22% Impervious, Inflow Depth = 2.29" for 10-Year event
Inflow = 8.34 cfs @ 11.95 hrs, Volume= 19,150 cf
Outflow = 1.61 cfs @ 12.22 hrs, Volume= 19,150 cf, Atten= 81%, Lag= 16.6 min
Primary = 1.61 cfs @ 12.22 hrs, Volume= 19,150 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 580.92' @ 12.22 hrs Surf.Area= 6,719 sf Storage= 5,751 cf

Plug-Flow detention time= 28.7 min calculated for 19,147 cf (100% of inflow)
Center-of-Mass det. time= 28.7 min (857.7 - 829.0)

Volume	Invert	Avail.Storage	Storage Description
#1	580.00'	13,600 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

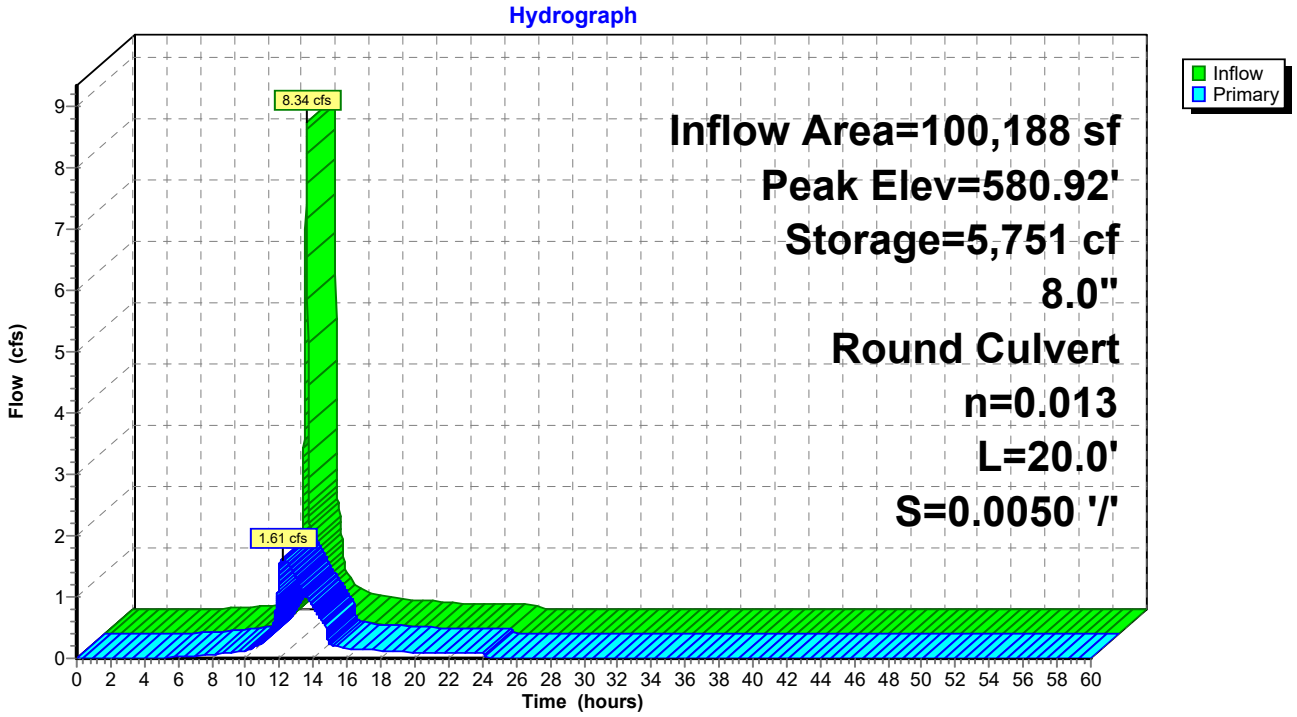
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
580.00	5,800	0	0
581.00	6,800	6,300	6,300
582.00	7,800	7,300	13,600

Device	Routing	Invert	Outlet Devices
#1	Primary	579.50'	**8.0" Round Culvert** L= 20.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 579.50' / 579.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.61 cfs @ 12.22 hrs HW=580.92' (Free Discharge)
↳**1=Culvert** (Barrel Controls 1.61 cfs @ 4.61 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1P: Wet Pond



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 2P: Underground Detention

[79] Warning: Submerged Pond 5P Primary device # 1 OUTLET by 0.29'

Inflow Area = 125,017 sf, 68.99% Impervious, Inflow Depth = 2.37" for 10-Year event
Inflow = 8.00 cfs @ 12.08 hrs, Volume= 24,711 cf
Outflow = 2.84 cfs @ 12.32 hrs, Volume= 24,672 cf, Atten= 65%, Lag= 14.6 min
Primary = 2.84 cfs @ 12.32 hrs, Volume= 24,672 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 580.24' @ 12.32 hrs Surf.Area= 7,226 sf Storage= 7,653 cf

Plug-Flow detention time= 59.9 min calculated for 24,668 cf (100% of inflow)
Center-of-Mass det. time= 56.9 min (886.0 - 829.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	578.67'	6,515 cf	**20.50'W x 352.50'L x 3.50'H Field A** 25,292 cf Overall - 9,004 cf Embedded = 16,287 cf x 40.0% Voids
#2A	579.17'	9,004 cf	**ADS_StormTech SC-740 +Cap** x 196 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 196 Chambers in 4 Rows
		15,519 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	578.67'	**12.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.67' / 578.30' S= 0.0037 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.84 cfs @ 12.32 hrs HW=580.24' (Free Discharge)
└**1=Culvert** (Barrel Controls 2.84 cfs @ 3.61 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention - Chamber Wizard Field A

Chamber Model = ADS_StormTechSC-740 +Cap (ADS StormTech®SC-740 with cap length)
Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf
Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

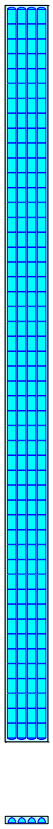
49 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 350.50' Row Length +12.0" End Stone x 2 = 352.50' Base Length
4 Rows x 51.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 20.50' Base Width
6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

196 Chambers x 45.9 cf = 9,004.2 cf Chamber Storage

25,291.6 cf Field - 9,004.2 cf Chambers = 16,287.4 cf Stone x 40.0% Voids = 6,515.0 cf Stone Storage

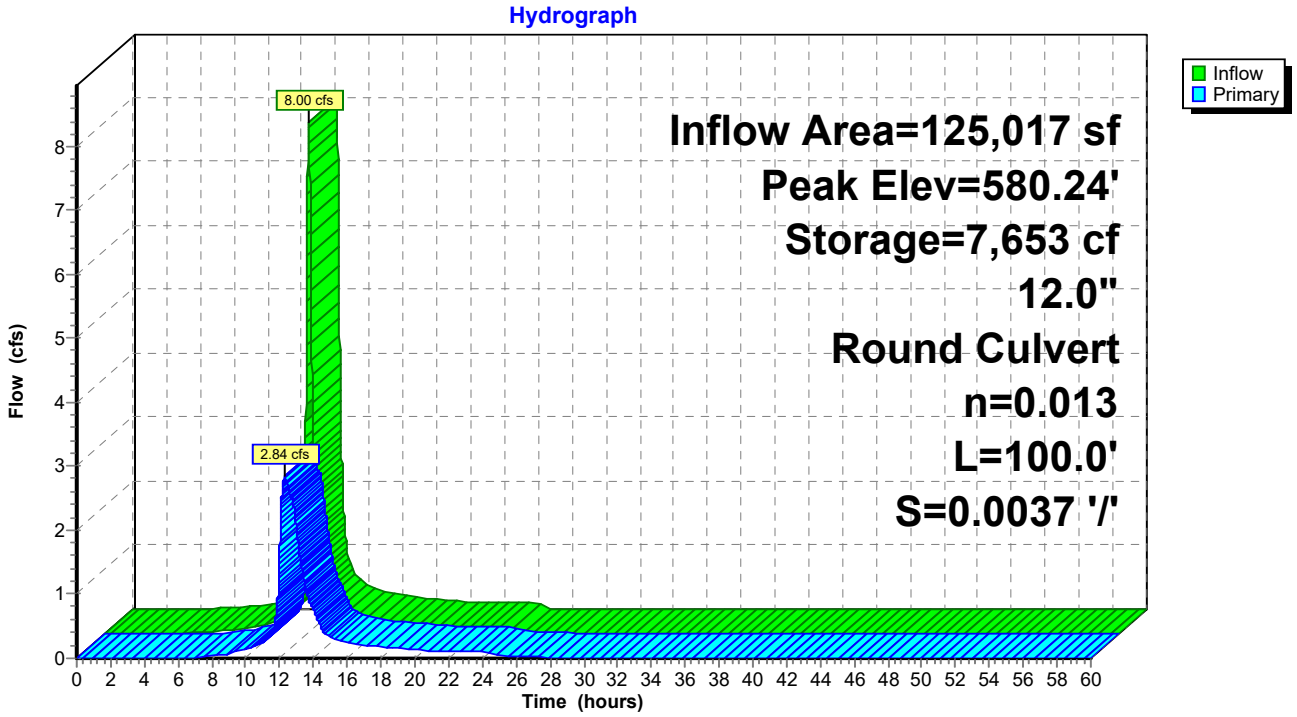
Chamber Storage + Stone Storage = 15,519.2 cf = 0.356 af
Overall Storage Efficiency = 61.4%
Overall System Size = 352.50' x 20.50' x 3.50'

196 Chambers
936.7 cy Field
603.2 cy Stone



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 5P: Bio Area #2

Inflow Area = 10,890 sf, 60.00% Impervious, Inflow Depth = 2.20" for 10-Year event
Inflow = 0.97 cfs @ 11.96 hrs, Volume= 1,998 cf
Outflow = 0.78 cfs @ 12.01 hrs, Volume= 1,998 cf, Atten= 20%, Lag= 2.9 min
Primary = 0.78 cfs @ 12.01 hrs, Volume= 1,998 cf
Routed to Pond 2P : Underground Detention

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.65' @ 12.01 hrs Surf.Area= 1,452 sf Storage= 681 cf

Plug-Flow detention time= 361.7 min calculated for 1,998 cf (100% of inflow)
Center-of-Mass det. time= 361.6 min (1,160.8 - 799.2)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

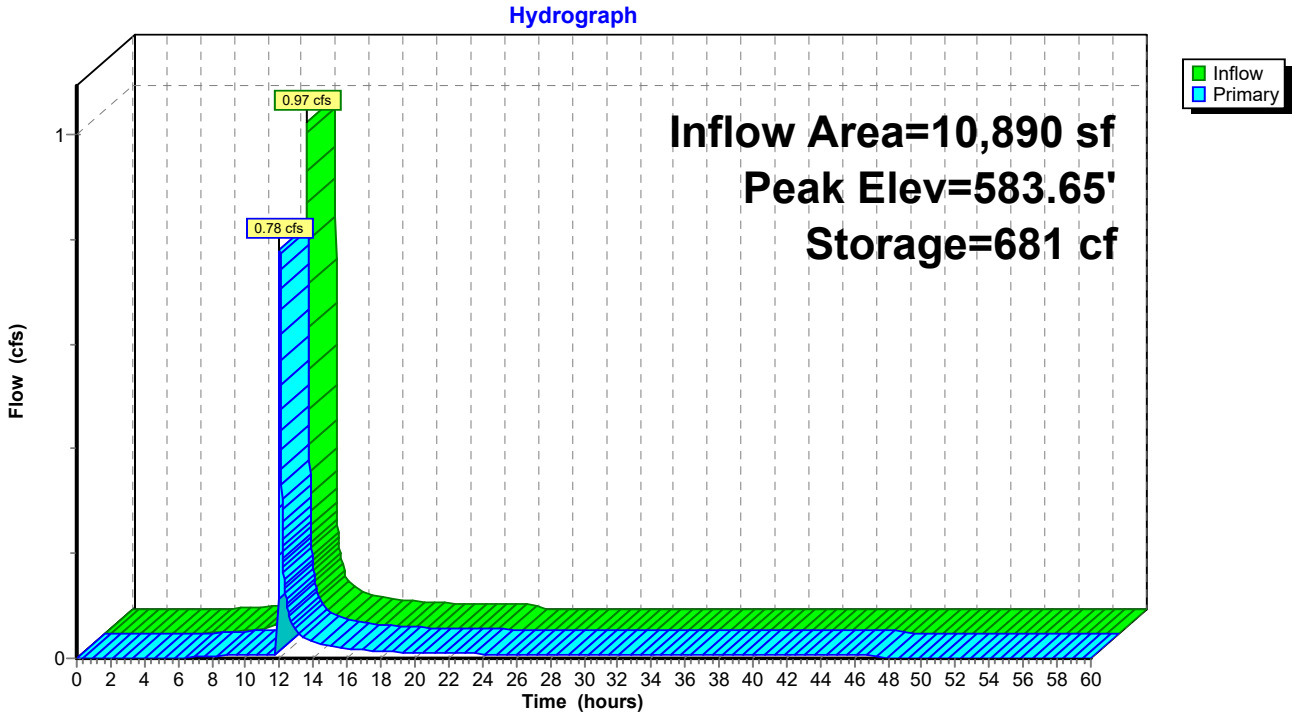
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	875	0	0
583.50	1,100	494	494
583.75	1,700	350	844

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**8.0" Round Culvert** L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 579.95' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.78 cfs @ 12.01 hrs HW=583.65' (Free Discharge)
└─**1=Culvert** (Passes 0.78 cfs of 2.12 cfs potential flow)
├─**2=Orifice/Grate** (Weir Controls 0.77 cfs @ 1.25 fps)
└─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 5P: Bio Area #2



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=2.000 ac 65.00% Impervious Runoff Depth=2.96"
Flow Length=440' Tc=3.9 min CN=92 Runoff=10.59 cfs 21,513 cf

Subcatchment2S: East Runoff Area=2.620 ac 69.85% Impervious Runoff Depth=3.06"
Flow Length=75' Tc=16.6 min CN=93 Runoff=9.46 cfs 29,143 cf

Subcatchment3S: Bldg 6 Runoff Area=0.300 ac 66.67% Impervious Runoff Depth=2.96"
Flow Length=100' Slope=0.0050 '/' Tc=19.3 min CN=92 Runoff=0.98 cfs 3,227 cf

Subcatchment4S: Bldg 7 Runoff Area=0.250 ac 60.00% Impervious Runoff Depth=2.86"
Flow Length=20' Slope=0.0060 '/' Tc=5.0 min CN=91 Runoff=1.25 cfs 2,599 cf

Pond 1B: Bio Area #1 Peak Elev=583.67' Storage=646 cf Inflow=0.98 cfs 3,227 cf
Outflow=0.93 cfs 3,227 cf

Pond 1P: Wet Pond Peak Elev=581.24' Storage=7,974 cf Inflow=10.95 cfs 24,740 cf
8.0" Round Culvert n=0.013 L=20.0' S=0.0050 '/' Outflow=1.89 cfs 24,740 cf

Pond 2P: Underground Detention Peak Elev=580.69' Storage=10,042 cf Inflow=10.15 cfs 31,743 cf
12.0" Round Culvert n=0.013 L=100.0' S=0.0037 '/' Outflow=3.45 cfs 31,703 cf

Pond 5P: Bio Area #2 Peak Elev=583.68' Storage=738 cf Inflow=1.25 cfs 2,599 cf
Outflow=1.10 cfs 2,599 cf

Total Runoff Area = 225,205 sf Runoff Volume = 56,483 cf Average Runoff Depth = 3.01"
32.69% Pervious = 73,616 sf 67.31% Impervious = 151,589 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

[47] Hint: Peak is 543% of capacity of segment #2

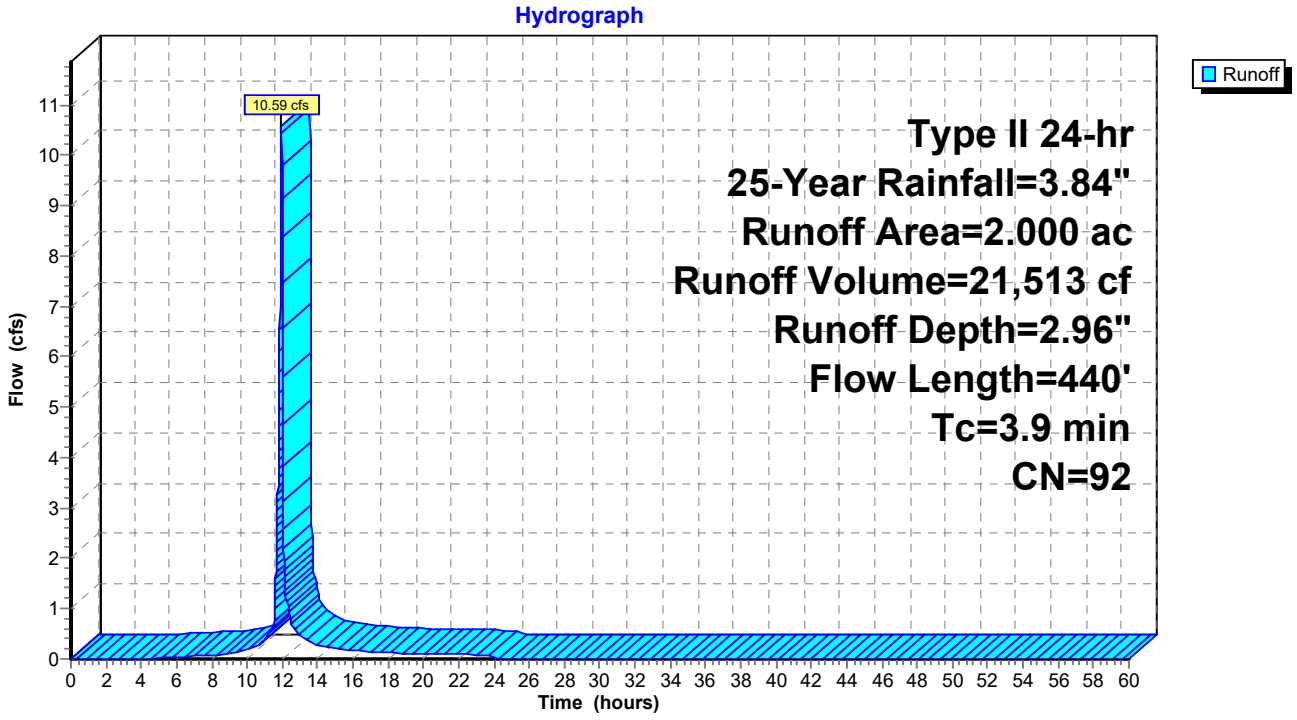
Runoff = 10.59 cfs @ 11.95 hrs, Volume= 21,513 cf, Depth= 2.96"
Routed to Pond 1P : Wet Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.470	98	Roofs, HSG D
0.830	98	Paved parking, HSG D
0.700	80	>75% Grass cover, Good, HSG D
2.000	92	Weighted Average
0.700		35.00% Pervious Area
1.300		65.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	105	0.0120	1.00		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
2.2	335	0.0030	2.48	1.95	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.9	440	Total			

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

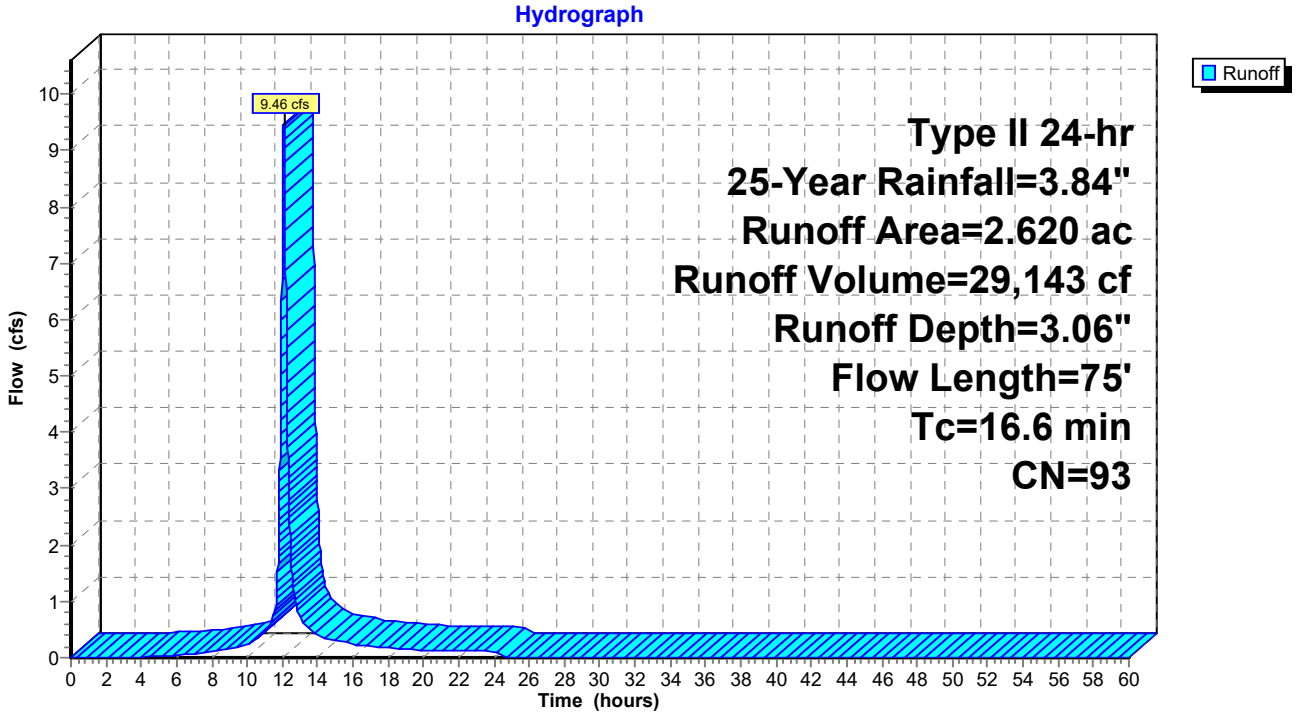
Runoff = 9.46 cfs @ 12.08 hrs, Volume= 29,143 cf, Depth= 3.06"
Routed to Pond 2P : Underground Detention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.550	98	Roofs, HSG D
1.280	98	Paved parking, HSG D
0.790	80	>75% Grass cover, Good, HSG D
2.620	93	Weighted Average
0.790		30.15% Pervious Area
1.830		69.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	50	0.0020	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
0.6	25	0.0100	0.70		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
16.6	75	Total			

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: Bldg 6

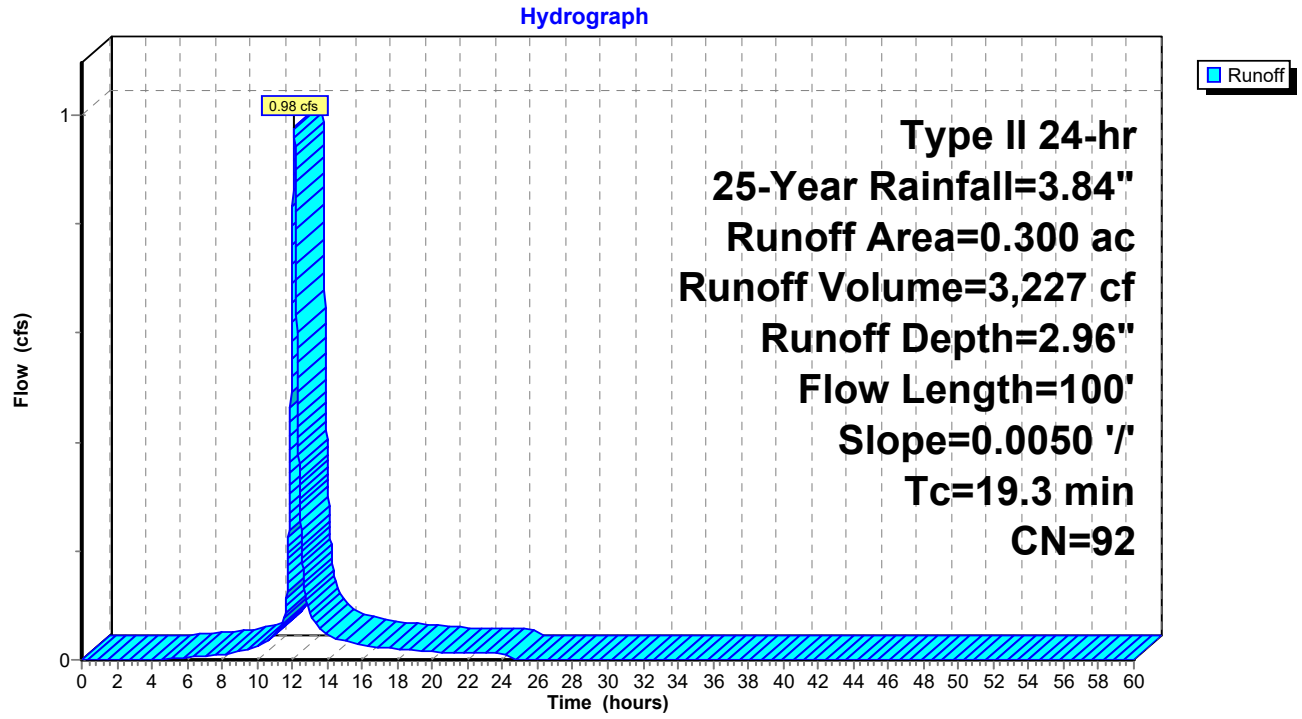
Runoff = 0.98 cfs @ 12.11 hrs, Volume= 3,227 cf, Depth= 2.96"
Routed to Pond 1B : Bio Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.130	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.070	98	Paved parking, HSG D
0.300	92	Weighted Average
0.100		33.33% Pervious Area
0.200		66.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.3	100	0.0050	0.09		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 3S: Bldg 6



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 4S: Bldg 7

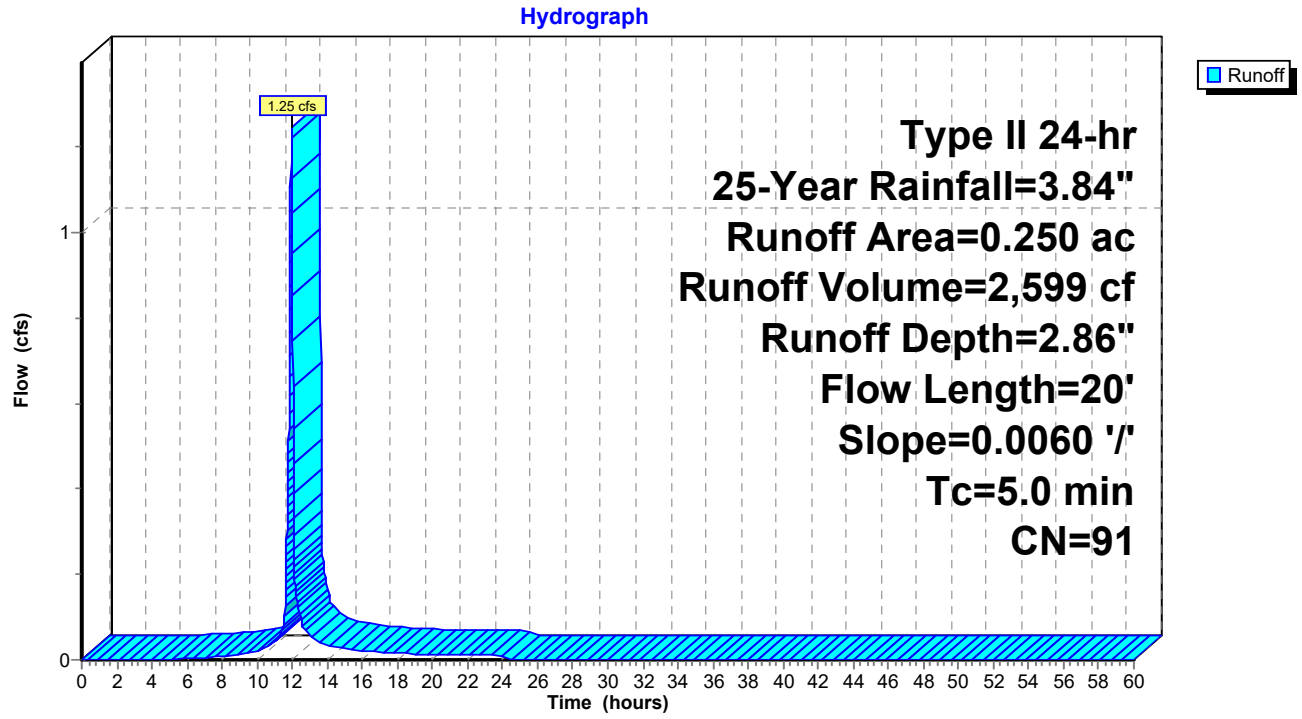
Runoff = 1.25 cfs @ 11.96 hrs, Volume= 2,599 cf, Depth= 2.86"
Routed to Pond 5P : Bio Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=3.84"

Area (ac)	CN	Description
0.100	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.050	98	Paved parking, HSG D
0.250	91	Weighted Average
0.100		40.00% Pervious Area
0.150		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	20	0.0060	0.07		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 4S: Bldg 7



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1B: Bio Area #1

Inflow Area = 13,068 sf, 66.67% Impervious, Inflow Depth = 2.96" for 25-Year event
Inflow = 0.98 cfs @ 12.11 hrs, Volume= 3,227 cf
Outflow = 0.93 cfs @ 12.16 hrs, Volume= 3,227 cf, Atten= 5%, Lag= 2.6 min
Primary = 0.93 cfs @ 12.16 hrs, Volume= 3,227 cf
Routed to Pond 1P : Wet Pond

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.67' @ 12.16 hrs Surf.Area= 1,376 sf Storage= 646 cf

Plug-Flow detention time= 206.8 min calculated for 3,227 cf (100% of inflow)
Center-of-Mass det. time= 206.7 min (1,007.2 - 800.5)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	767 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

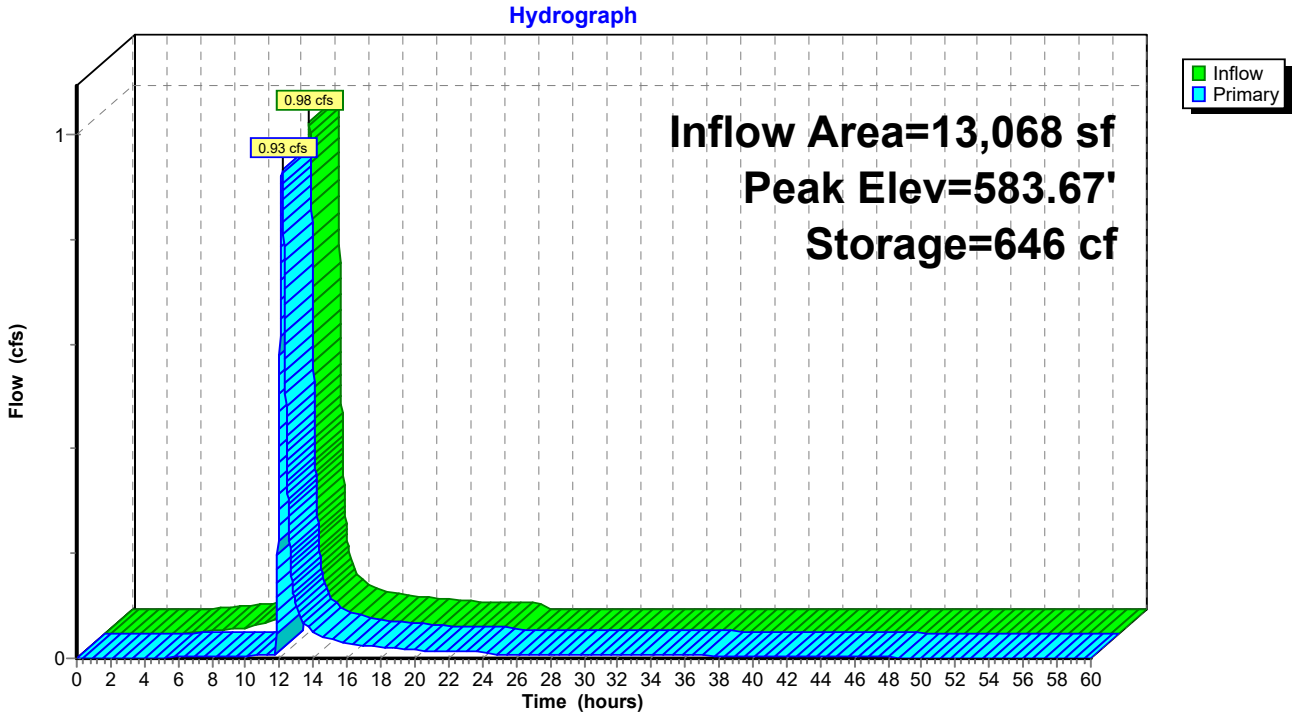
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	645	0	0
583.50	1,112	439	439
583.75	1,510	328	767

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**6.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 580.28' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=0.93 cfs @ 12.16 hrs HW=583.67' (Free Discharge)
└─**1=Culvert** (Passes 0.93 cfs of 1.49 cfs potential flow)
  ├─**2=Orifice/Grate** (Weir Controls 0.92 cfs @ 1.33 fps)
  └─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1B: Bio Area #1



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1P: Wet Pond

[44] Hint: Outlet device #1 is below defined storage
[79] Warning: Submerged Pond 1B Primary device # 1 INLET by 0.74'

Inflow Area = 100,188 sf, 65.22% Impervious, Inflow Depth = 2.96" for 25-Year event
Inflow = 10.95 cfs @ 11.95 hrs, Volume= 24,740 cf
Outflow = 1.89 cfs @ 12.26 hrs, Volume= 24,740 cf, Atten= 83%, Lag= 18.7 min
Primary = 1.89 cfs @ 12.26 hrs, Volume= 24,740 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 581.24' @ 12.26 hrs Surf.Area= 7,042 sf Storage= 7,974 cf

Plug-Flow detention time= 34.7 min calculated for 24,736 cf (100% of inflow)
Center-of-Mass det. time= 34.7 min (849.7 - 815.0)

Volume	Invert	Avail.Storage	Storage Description
#1	580.00'	13,600 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

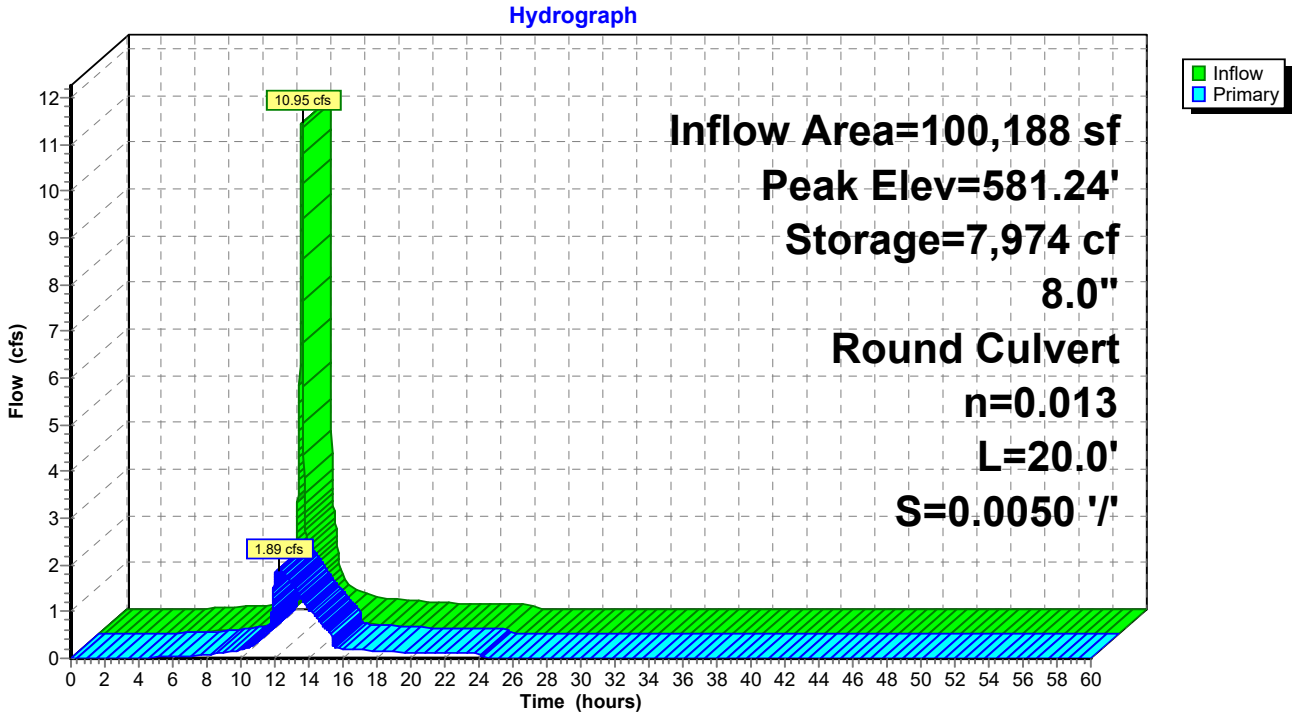
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
580.00	5,800	0	0
581.00	6,800	6,300	6,300
582.00	7,800	7,300	13,600

Device	Routing	Invert	Outlet Devices
#1	Primary	579.50'	**8.0" Round Culvert** L= 20.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 579.50' / 579.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.89 cfs @ 12.26 hrs HW=581.24' (Free Discharge)
↑—**1=Culvert** (Barrel Controls 1.89 cfs @ 5.42 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1P: Wet Pond



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 2P: Underground Detention

[79] Warning: Submerged Pond 5P Primary device # 1 INLET by 0.19'

Inflow Area = 125,017 sf, 68.99% Impervious, Inflow Depth = 3.05" for 25-Year event
Inflow = 10.15 cfs @ 12.07 hrs, Volume= 31,743 cf
Outflow = 3.45 cfs @ 12.32 hrs, Volume= 31,703 cf, Atten= 66%, Lag= 15.2 min
Primary = 3.45 cfs @ 12.32 hrs, Volume= 31,703 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 580.69' @ 12.32 hrs Surf.Area= 7,226 sf Storage= 10,042 cf

Plug-Flow detention time= 57.0 min calculated for 31,703 cf (100% of inflow)
Center-of-Mass det. time= 54.5 min (870.8 - 816.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	578.67'	6,515 cf	**20.50'W x 352.50'L x 3.50'H Field A** 25,292 cf Overall - 9,004 cf Embedded = 16,287 cf x 40.0% Voids
#2A	579.17'	9,004 cf	**ADS_StormTech SC-740 +Cap** x 196 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 196 Chambers in 4 Rows
		15,519 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	578.67'	**12.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.67' / 578.30' S= 0.0037 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.45 cfs @ 12.32 hrs HW=580.69' (Free Discharge)
└**1=Culvert** (Barrel Controls 3.45 cfs @ 4.40 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention - Chamber Wizard Field A

Chamber Model = ADS_StormTechSC-740 +Cap (ADS StormTech®SC-740 with cap length)
Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf
Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

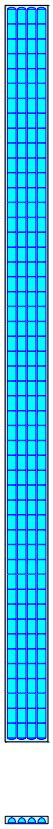
49 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 350.50' Row Length +12.0" End Stone x 2 = 352.50' Base Length
4 Rows x 51.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 20.50' Base Width
6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

196 Chambers x 45.9 cf = 9,004.2 cf Chamber Storage

25,291.6 cf Field - 9,004.2 cf Chambers = 16,287.4 cf Stone x 40.0% Voids = 6,515.0 cf Stone Storage

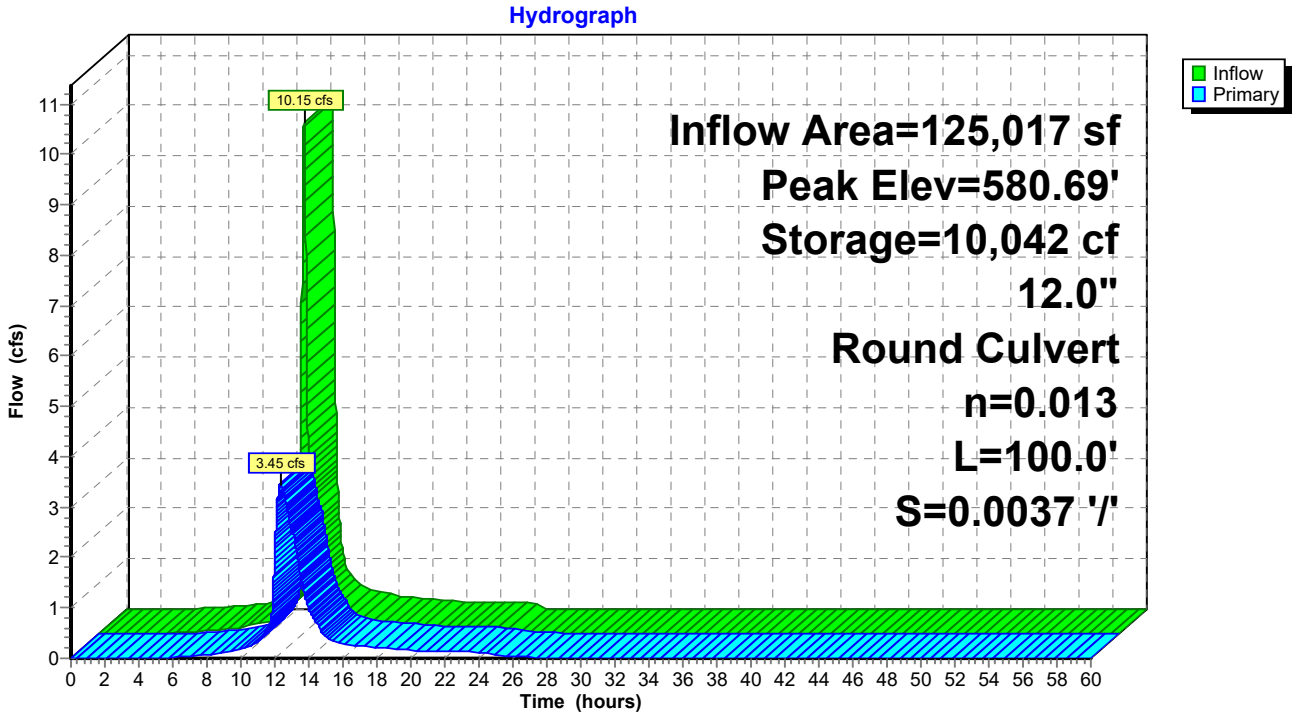
Chamber Storage + Stone Storage = 15,519.2 cf = 0.356 af
Overall Storage Efficiency = 61.4%
Overall System Size = 352.50' x 20.50' x 3.50'

196 Chambers
936.7 cy Field
603.2 cy Stone



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 5P: Bio Area #2

Inflow Area = 10,890 sf, 60.00% Impervious, Inflow Depth = 2.86" for 25-Year event
Inflow = 1.25 cfs @ 11.96 hrs, Volume= 2,599 cf
Outflow = 1.10 cfs @ 11.99 hrs, Volume= 2,599 cf, Atten= 12%, Lag= 2.1 min
Primary = 1.10 cfs @ 11.99 hrs, Volume= 2,599 cf
Routed to Pond 2P : Underground Detention

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.68' @ 11.99 hrs Surf.Area= 1,543 sf Storage= 738 cf

Plug-Flow detention time= 283.8 min calculated for 2,599 cf (100% of inflow)
Center-of-Mass det. time= 284.0 min (1,075.7 - 791.7)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

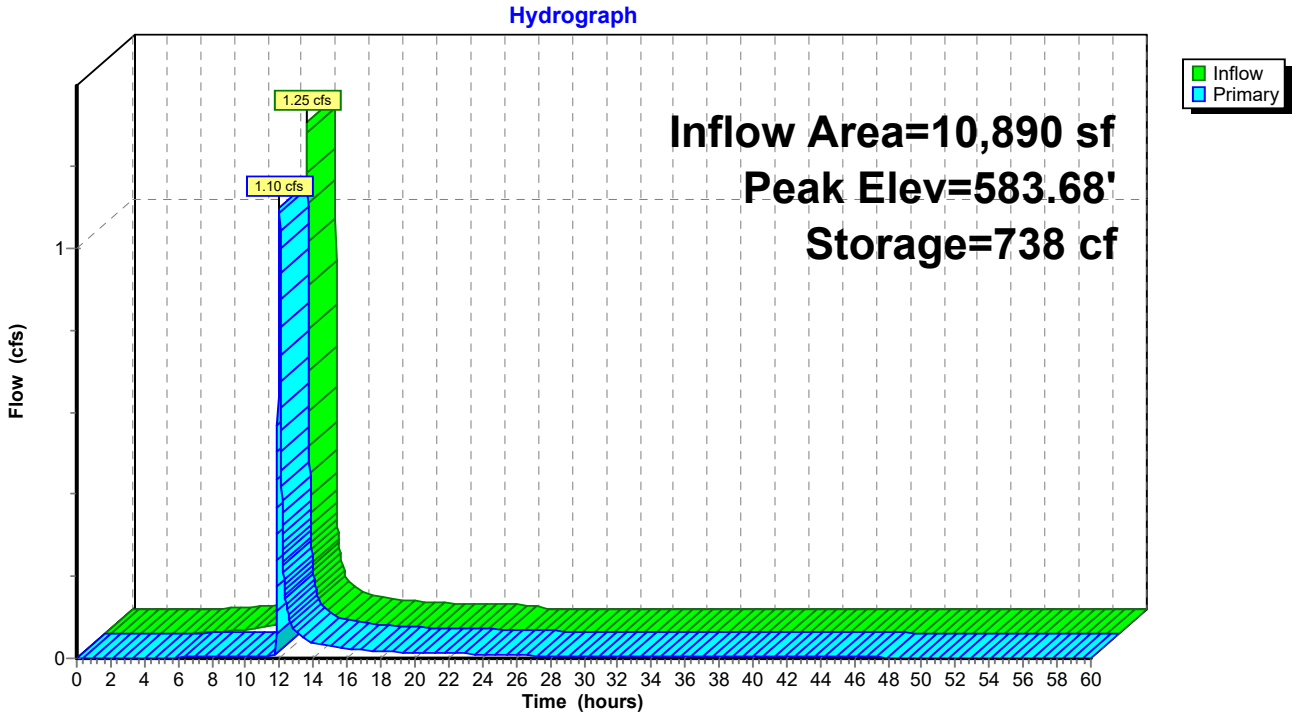
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	875	0	0
583.50	1,100	494	494
583.75	1,700	350	844

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**8.0" Round Culvert** L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 579.95' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=1.09 cfs @ 11.99 hrs HW=583.68' (Free Discharge)
└**1=Culvert** (Passes 1.09 cfs of 2.14 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 1.09 cfs @ 1.40 fps)
└**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 5P: Bio Area #2



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: West Runoff Area=2.000 ac 65.00% Impervious Runoff Depth=4.31"
Flow Length=440' Tc=3.9 min CN=92 Runoff=15.01 cfs 31,321 cf

Subcatchment2S: East Runoff Area=2.620 ac 69.85% Impervious Runoff Depth=4.42"
Flow Length=75' Tc=16.6 min CN=93 Runoff=13.39 cfs 42,074 cf

Subcatchment3S: Bldg 6 Runoff Area=0.300 ac 66.67% Impervious Runoff Depth=4.31"
Flow Length=100' Slope=0.0050 '/' Tc=19.3 min CN=92 Runoff=1.40 cfs 4,698 cf

Subcatchment4S: Bldg 7 Runoff Area=0.250 ac 60.00% Impervious Runoff Depth=4.21"
Flow Length=20' Slope=0.0060 '/' Tc=5.0 min CN=91 Runoff=1.78 cfs 3,817 cf

Pond 1B: Bio Area #1 Peak Elev=583.71' Storage=710 cf Inflow=1.40 cfs 4,698 cf
Outflow=1.34 cfs 4,698 cf

Pond 1P: Wet Pond Peak Elev=581.88' Storage=12,683 cf Inflow=15.61 cfs 36,019 cf
8.0" Round Culvert n=0.013 L=20.0' S=0.0050 '/' Outflow=2.35 cfs 36,019 cf

Pond 2P: Underground Detention Peak Elev=581.93' Storage=14,839 cf Inflow=14.36 cfs 45,891 cf
12.0" Round Culvert n=0.013 L=100.0' S=0.0037 '/' Outflow=4.75 cfs 45,851 cf

Pond 5P: Bio Area #2 Peak Elev=583.74' Storage=825 cf Inflow=1.78 cfs 3,817 cf
Outflow=1.61 cfs 3,817 cf

Total Runoff Area = 225,205 sf Runoff Volume = 81,909 cf Average Runoff Depth = 4.36"
32.69% Pervious = 73,616 sf 67.31% Impervious = 151,589 sf

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 1S: West

[47] Hint: Peak is 769% of capacity of segment #2

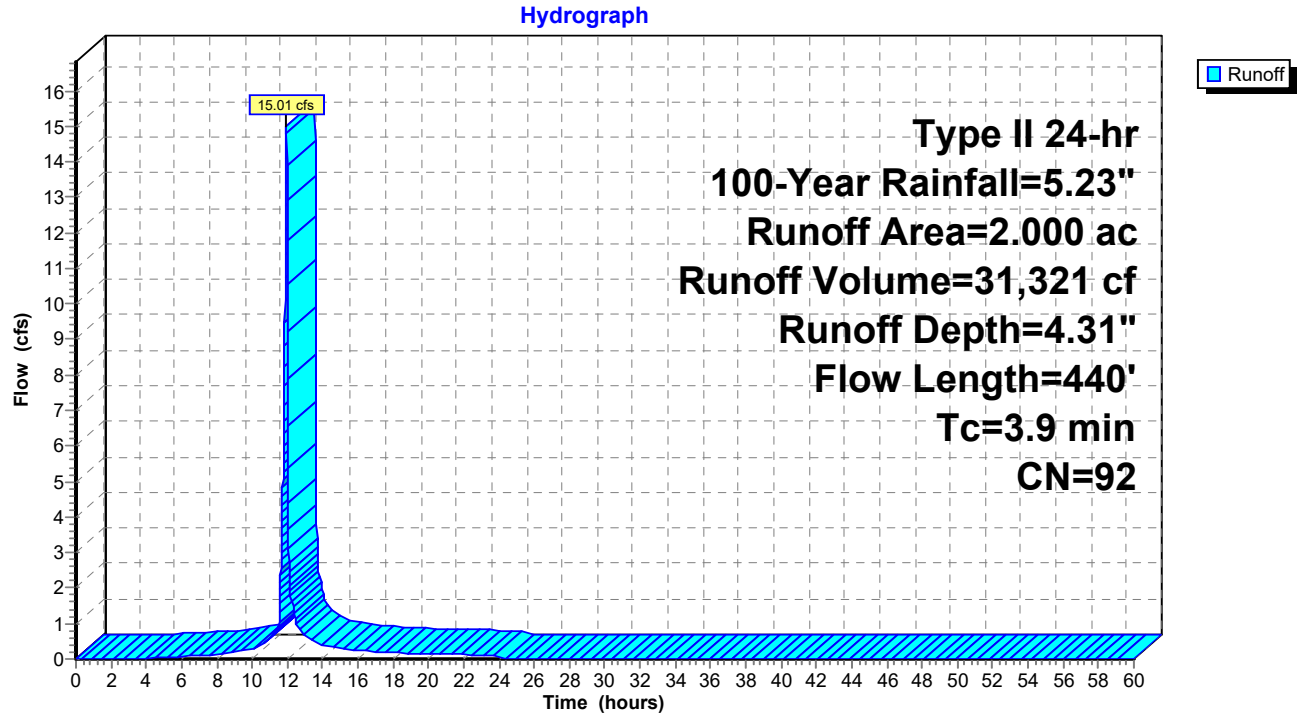
Runoff = 15.01 cfs @ 11.94 hrs, Volume= 31,321 cf, Depth= 4.31"
Routed to Pond 1P : Wet Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.470	98	Roofs, HSG D
0.830	98	Paved parking, HSG D
0.700	80	>75% Grass cover, Good, HSG D
2.000	92	Weighted Average
0.700		35.00% Pervious Area
1.300		65.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	105	0.0120	1.00		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
2.2	335	0.0030	2.48	1.95	**Pipe Channel, 12" pipe** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
3.9	440	Total			

Subcatchment 1S: West



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 2S: East

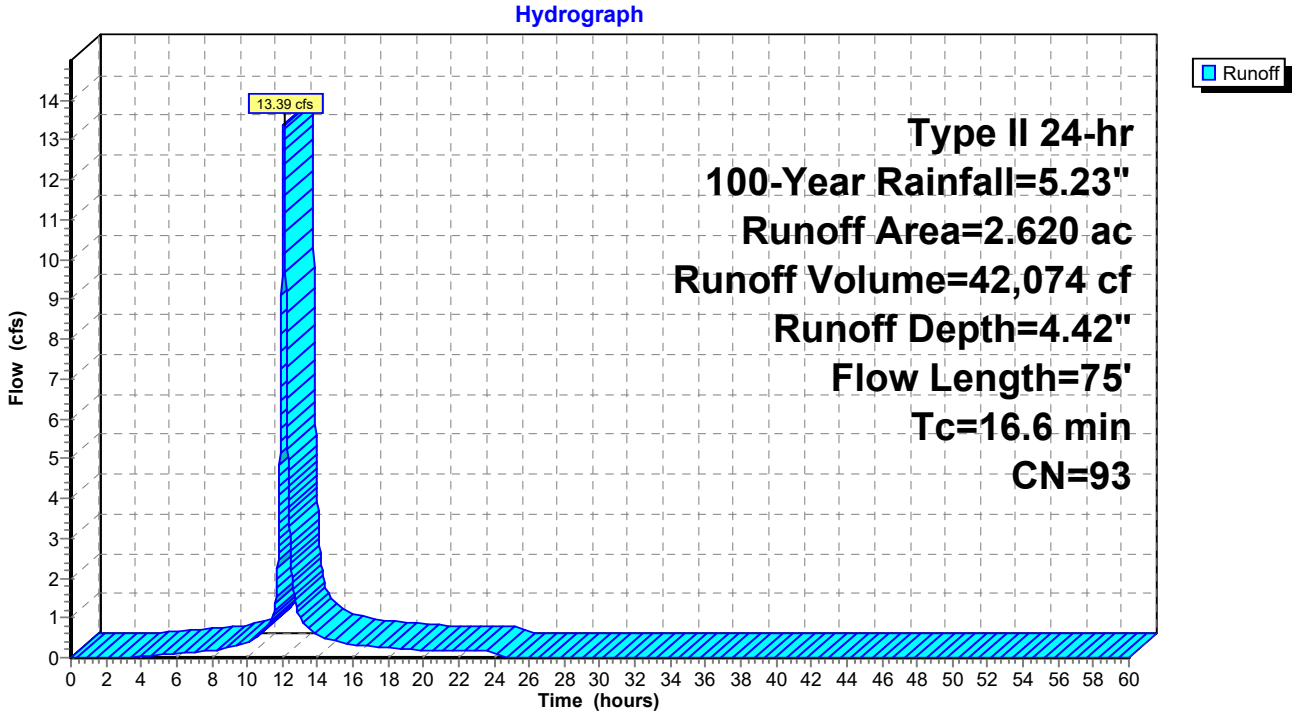
Runoff = 13.39 cfs @ 12.08 hrs, Volume= 42,074 cf, Depth= 4.42"
Routed to Pond 2P : Underground Detention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.550	98	Roofs, HSG D
1.280	98	Paved parking, HSG D
0.790	80	>75% Grass cover, Good, HSG D
2.620	93	Weighted Average
0.790		30.15% Pervious Area
1.830		69.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	50	0.0020	0.05		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"
0.6	25	0.0100	0.70		**Sheet Flow, pavement** Smooth surfaces n= 0.011 P2= 2.50"
16.6	75	Total			

Subcatchment 2S: East



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 3S: Bldg 6

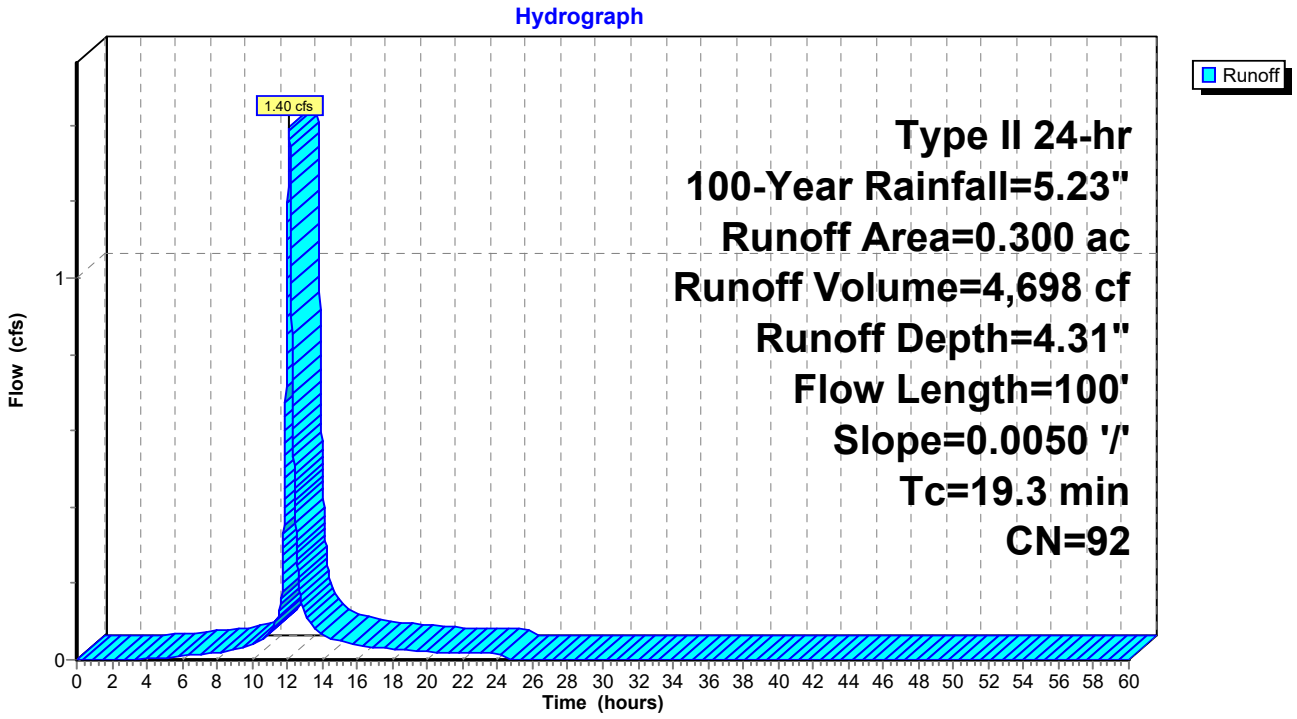
Runoff = 1.40 cfs @ 12.11 hrs, Volume= 4,698 cf, Depth= 4.31"
Routed to Pond 1B : Bio Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.130	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.070	98	Paved parking, HSG D
0.300	92	Weighted Average
0.100		33.33% Pervious Area
0.200		66.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.3	100	0.0050	0.09		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 3S: Bldg 6



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Subcatchment 4S: Bldg 7

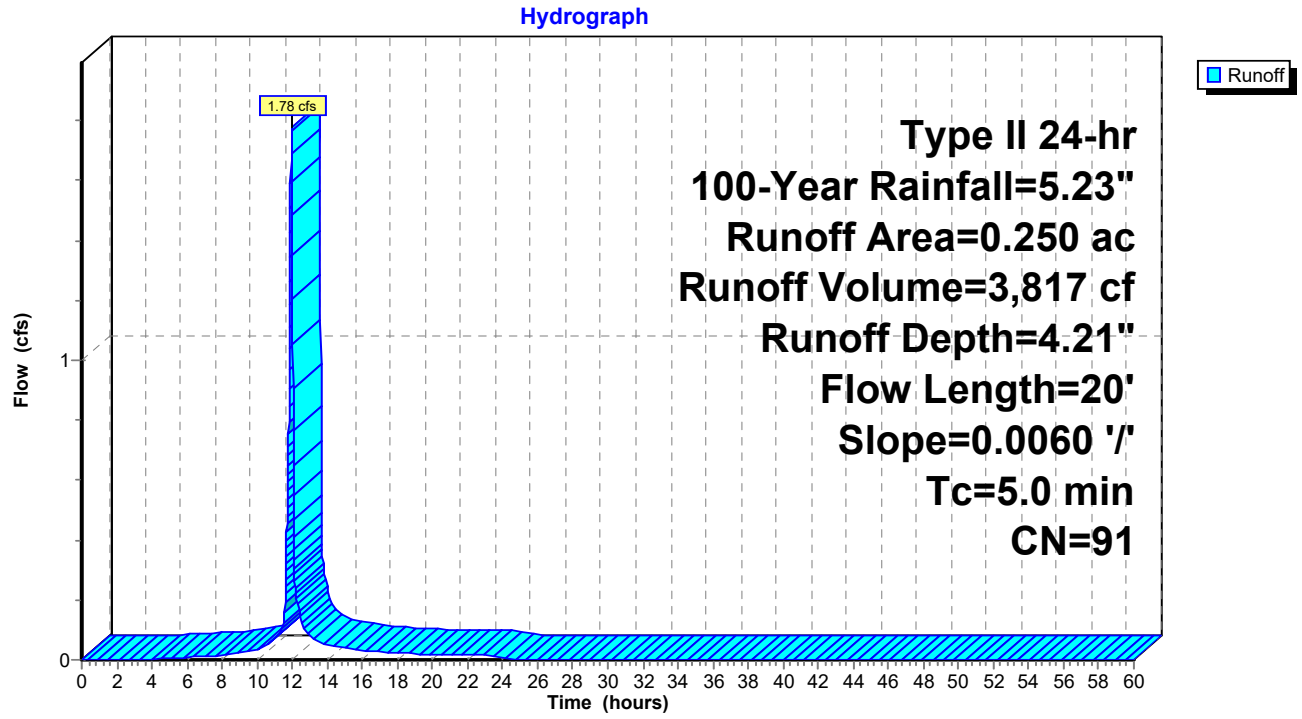
Runoff = 1.78 cfs @ 11.96 hrs, Volume= 3,817 cf, Depth= 4.21"
Routed to Pond 5P : Bio Area #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.23"

Area (ac)	CN	Description
0.100	98	Roofs, HSG D
0.100	80	>75% Grass cover, Good, HSG D
0.050	98	Paved parking, HSG D
0.250	91	Weighted Average
0.100		40.00% Pervious Area
0.150		60.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	20	0.0060	0.07		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 2.50"

Subcatchment 4S: Bldg 7



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1B: Bio Area #1

Inflow Area = 13,068 sf, 66.67% Impervious, Inflow Depth = 4.31" for 100-Year event
Inflow = 1.40 cfs @ 12.11 hrs, Volume= 4,698 cf
Outflow = 1.34 cfs @ 12.15 hrs, Volume= 4,698 cf, Atten= 4%, Lag= 2.4 min
Primary = 1.34 cfs @ 12.15 hrs, Volume= 4,698 cf
Routed to Pond 1P : Wet Pond

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.71' @ 12.15 hrs Surf.Area= 1,449 sf Storage= 710 cf

Plug-Flow detention time= 151.3 min calculated for 4,698 cf (100% of inflow)
Center-of-Mass det. time= 151.3 min (941.6 - 790.3)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	767 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

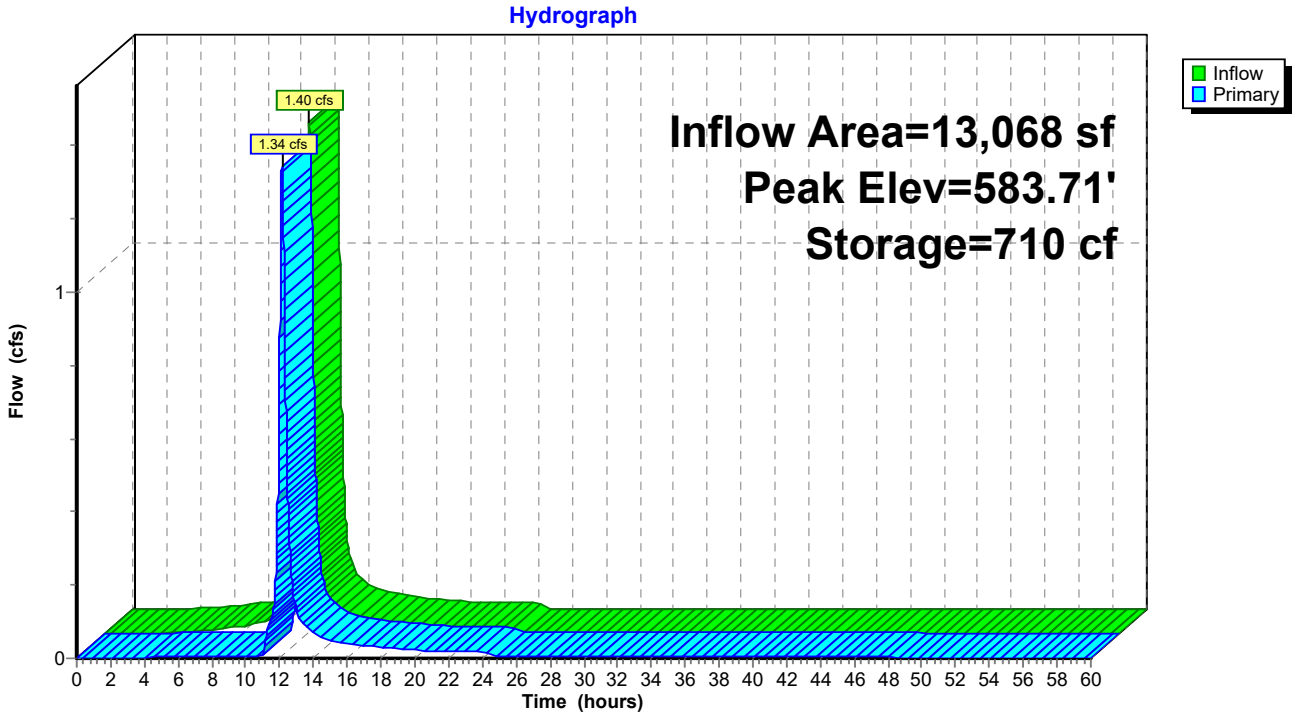
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	645	0	0
583.50	1,112	439	439
583.75	1,510	328	767

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**6.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 580.28' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=1.34 cfs @ 12.15 hrs HW=583.71' (Free Discharge)
└─**1=Culvert** (Passes 1.34 cfs of 1.50 cfs potential flow)
├─**2=Orifice/Grate** (Weir Controls 1.33 cfs @ 1.50 fps)
└─**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1B: Bio Area #1



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 1P: Wet Pond

[44] Hint: Outlet device #1 is below defined storage
[79] Warning: Submerged Pond 1B Primary device # 1 INLET by 1.38'

Inflow Area = 100,188 sf, 65.22% Impervious, Inflow Depth = 4.31" for 100-Year event
Inflow = 15.61 cfs @ 11.95 hrs, Volume= 36,019 cf
Outflow = 2.35 cfs @ 12.31 hrs, Volume= 36,019 cf, Atten= 85%, Lag= 21.7 min
Primary = 2.35 cfs @ 12.31 hrs, Volume= 36,019 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 581.88' @ 12.31 hrs Surf.Area= 7,681 sf Storage= 12,683 cf

Plug-Flow detention time= 45.8 min calculated for 36,013 cf (100% of inflow)
Center-of-Mass det. time= 45.8 min (843.4 - 797.6)

Volume	Invert	Avail.Storage	Storage Description
#1	580.00'	13,600 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

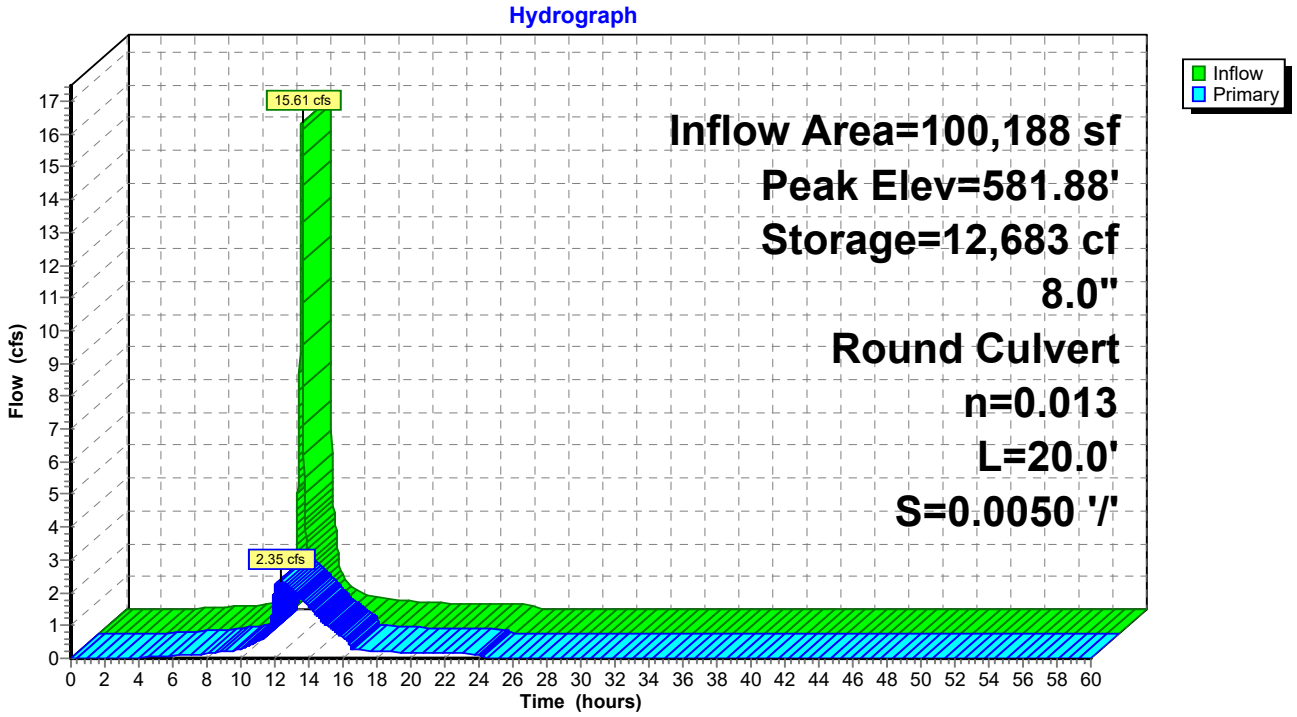
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
580.00	5,800	0	0
581.00	6,800	6,300	6,300
582.00	7,800	7,300	13,600

Device	Routing	Invert	Outlet Devices
#1	Primary	579.50'	**8.0" Round Culvert** L= 20.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 579.50' / 579.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=2.35 cfs @ 12.31 hrs HW=581.88' (Free Discharge)
↑**1=Culvert** (Barrel Controls 2.35 cfs @ 6.73 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 1P: Wet Pond



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 2P: Underground Detention

[79] Warning: Submerged Pond 5P Primary device # 1 INLET by 1.43'

Inflow Area = 125,017 sf, 68.99% Impervious, Inflow Depth = 4.40" for 100-Year event
Inflow = 14.36 cfs @ 12.07 hrs, Volume= 45,891 cf
Outflow = 4.75 cfs @ 12.33 hrs, Volume= 45,851 cf, Atten= 67%, Lag= 15.6 min
Primary = 4.75 cfs @ 12.33 hrs, Volume= 45,851 cf

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 581.93' @ 12.33 hrs Surf.Area= 7,226 sf Storage= 14,839 cf

Plug-Flow detention time= 54.1 min calculated for 45,851 cf (100% of inflow)
Center-of-Mass det. time= 52.3 min (852.4 - 800.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	578.67'	6,515 cf	**20.50'W x 352.50'L x 3.50'H Field A** 25,292 cf Overall - 9,004 cf Embedded = 16,287 cf x 40.0% Voids
#2A	579.17'	9,004 cf	**ADS_StormTech SC-740 +Cap** x 196 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 196 Chambers in 4 Rows
		15,519 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	578.67'	**12.0" Round Culvert** L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 578.67' / 578.30' S= 0.0037 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.75 cfs @ 12.33 hrs HW=581.93' (Free Discharge)
└**1=Culvert** (Barrel Controls 4.75 cfs @ 6.05 fps)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention - Chamber Wizard Field A

Chamber Model = ADS_StormTechSC-740 +Cap (ADS StormTech®SC-740 with cap length)
Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf
Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

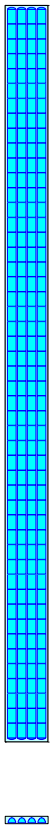
49 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 350.50' Row Length +12.0" End Stone x 2 = 352.50' Base Length
4 Rows x 51.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 20.50' Base Width
6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

196 Chambers x 45.9 cf = 9,004.2 cf Chamber Storage

25,291.6 cf Field - 9,004.2 cf Chambers = 16,287.4 cf Stone x 40.0% Voids = 6,515.0 cf Stone Storage

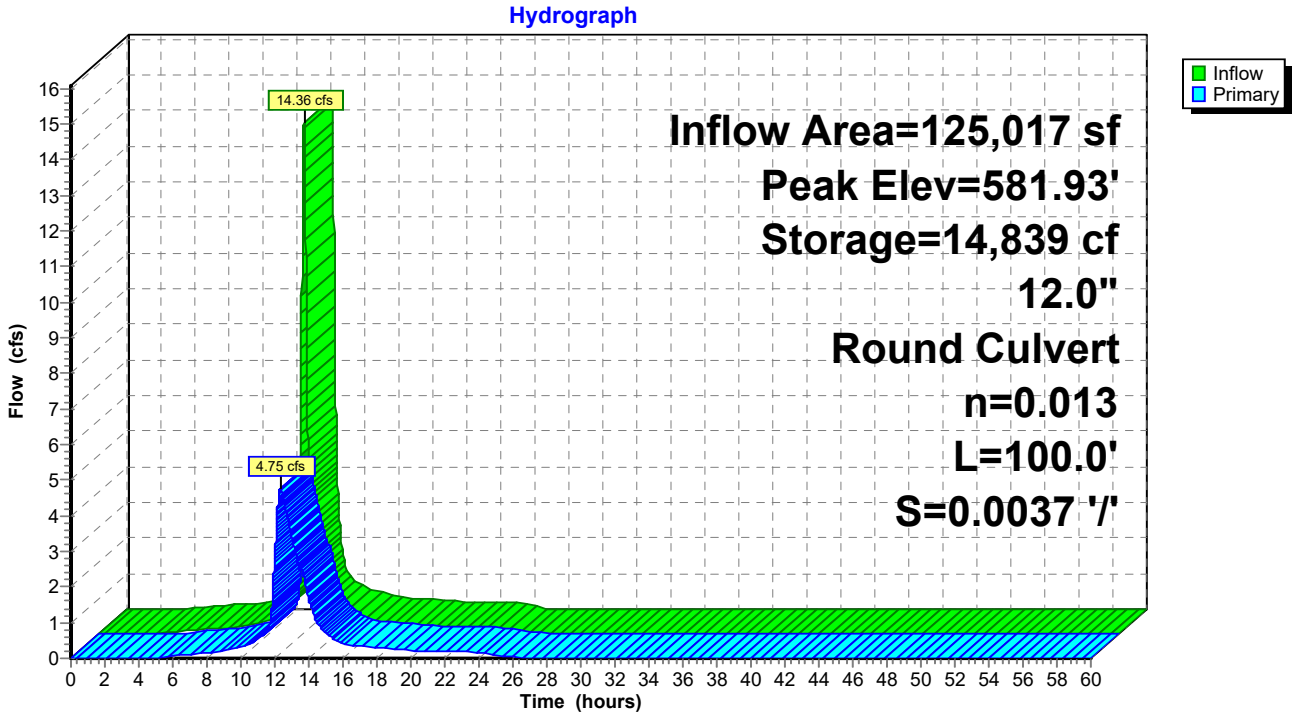
Chamber Storage + Stone Storage = 15,519.2 cf = 0.356 af
Overall Storage Efficiency = 61.4%
Overall System Size = 352.50' x 20.50' x 3.50'

196 Chambers
936.7 cy Field
603.2 cy Stone



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 2P: Underground Detention



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 5P: Bio Area #2

Inflow Area = 10,890 sf, 60.00% Impervious, Inflow Depth = 4.21" for 100-Year event
Inflow = 1.78 cfs @ 11.96 hrs, Volume= 3,817 cf
Outflow = 1.61 cfs @ 11.99 hrs, Volume= 3,817 cf, Atten= 10%, Lag= 1.9 min
Primary = 1.61 cfs @ 11.99 hrs, Volume= 3,817 cf
Routed to Pond 2P : Underground Detention

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs
Peak Elev= 583.74' @ 11.99 hrs Surf.Area= 1,673 sf Storage= 825 cf

Plug-Flow detention time= 202.8 min calculated for 3,816 cf (100% of inflow)
Center-of-Mass det. time= 203.0 min (984.2 - 781.1)

Volume	Invert	Avail.Storage	Storage Description
#1	583.00'	844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

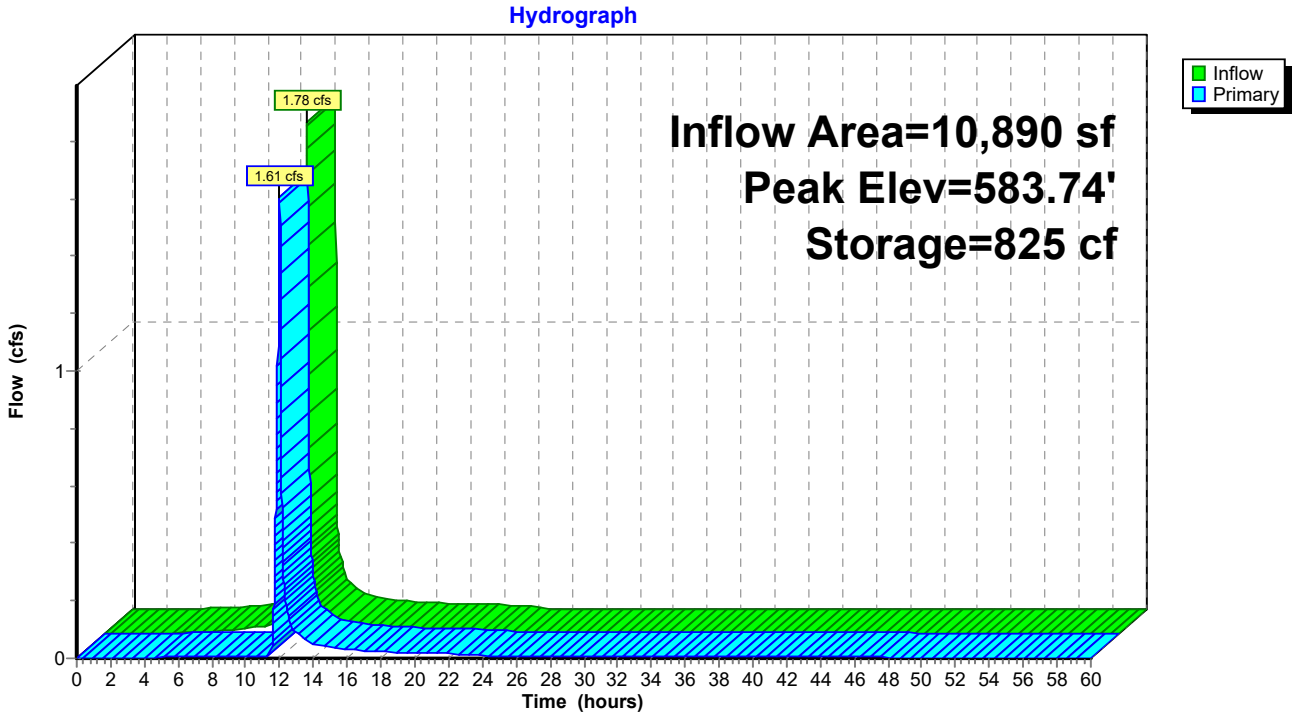
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
583.00	875	0	0
583.50	1,100	494	494
583.75	1,700	350	844

Device	Routing	Invert	Outlet Devices
#1	Primary	580.50'	**8.0" Round Culvert** L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 580.50' / 579.95' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf
#2	Device 1	583.50'	**8.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#3	Device 1	583.00'	**0.250 in/hr Exfiltration over Horizontal area** Conductivity to Groundwater Elevation = 570.00'

Primary OutFlow Max=1.61 cfs @ 11.99 hrs HW=583.74' (Free Discharge)
└**1=Culvert** (Passes 1.61 cfs of 2.16 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 1.60 cfs @ 1.60 fps)
└**3=Exfiltration** (Controls 0.01 cfs)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Pond 5P: Bio Area #2



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 3P: FOREBAY Water Quality in Detention Basin

[43] Hint: Has no inflow (Outflow=Zero)

Volume	Invert	Avail.Storage	Storage Description
#1	575.00'	2,185 cf	**Detention Pond (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
575.00	220	0	0
576.00	360	290	290
577.00	530	445	735
578.00	720	625	1,360
579.00	930	825	2,185

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Summary for Pond 4P: PERMANENT POOL Water Quality in Detention Basin

[43] Hint: Has no inflow (Outflow=Zero)

Volume	Invert	Avail.Storage	Storage Description
#1	573.00'	4,155 cf	**Detention Pond (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
573.00	200	0	0
574.00	330	265	265
575.00	480	405	670
576.00	650	565	1,235
577.00	850	750	1,985
578.00	1,080	965	2,950
579.00	1,330	1,205	4,155

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Green Infrastructure & Water Quality Calculations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Proposed Multi-Family Project - 480 Dodge Road
Town of Amherst, Erie County, New York

WATER QUALITY REQUIRED FOR PROPOSED DEVELOPMENT AREA Area, Acres = 5.17
(Note: Reference Chap. 9 NYSDEC Stormwater Design Manual)

"Redevelopment Activity", Acres = 2.30 "New development", Acres = 2.87
(existing, disturbed impervious area)

Total proposed impervious, Acres = 3.35 Adjusted impervious, Acres = 1.63
"New" impervious, Acres = 1.05 (25% redevelopment, 100% new development)

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

Where:	P=90% Rainfall Event Number	P= 1
	Rv= 0.05+0.009*(I)	Rv= 0.33
	IC=Impervious Cover, Acres	IC= 1.63
	I=Impervious Cover (%)	I= 32
	A=Runoff Area, Acres	A= 5.17

WQv (ac-ft)= 0.143
WQv (cf)= 6,229

RRv PROVIDED FOR PROPOSED DEVELOPMENT AREA (See NYSDEC worksheets)

Min. RRv Req'd, cf = 1,124
Min. RRv Req'd, ac-ft = 0.026

	WQv, cf	RRv, cf
RRv, Bioretention Areas	115	1,128
WQv, Detention Pond	6,340	0
WQv, Treatment Unit	2,991	0
TOTAL, cf	9,446	1128
TOTAL, ac-ft	0.217	0.026

WQ & RR SUMMARY (ac-ft):

TOTAL WATER QUALITY PROVIDED FOR PROPOSED DEVELOPMENT AREA 0.243

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)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Version 1.7
Last Updated: 10/02/2015

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

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

Design Point:	1	
P=	1.00	*inch*

Breakdown of Subcatchments

Catchment Number	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	Description
1	2.00	0.51	26%	0.28	2,029	
2	2.62	0.77	29%	0.31	2,991	
3	0.30	0.20	67%	0.65	708	
4	0.25	0.15	60%	0.59	535	
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	5.17	1.63	32%	0.33	**6,264**	**Subtotal 1**
Total	5.17	1.63	32%	0.33	**6,264**	**Initial WQv**

Identify Runoff Reduction Techniques By Area

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

Recalculate WQv after application of Area Reduction Techniques

	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Runoff Coefficient Rv	WQv *(ft^3)*
"<<Initial WQv"	5.17	1.63	32%	0.33	6,264
Subtract Area	0.00	0.00			
WQv adjusted after Area Reductions	**5.17**	**1.63**	32%	0.33	6,264
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	5.17	1.63	32%	0.33	**6,264**
WQv reduced by Area Reduction techniques					0

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Minimum RRv

Enter the Soils Data for the site		
Soil Group	Acres	S
A		55%
B		40%
C		30%
D	**5.17**	20%
Total Area	5.17	

Calculate the Minimum RRv		
S =	**0.20**	
Impervious =	1.63	*acre*
Precipitation	1	*in*
Rv	0.95	
Minimum RRv	**1,124**	***ft3***
	0.03	af

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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:	1

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**
3	0.30	0.20	0.67	0.65	707.85	1.00	
Enter Impervious Area Reduced by Disconnection of Rooftops			67%	0.65	708	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						*ft^3*	

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

Calculate the Minimum Filter Area				
		Value	Units	Notes
WQv		708	*ft^3*	
Enter Depth of Soil Media	*df*	1.5	*ft*	*2.5-4 ft*
Enter Hydraulic Conductivity	*k*	0.5	*ft/day*	
Enter Average Height of Ponding	*hf*	0.5	*ft*	*6 inches max.*
Enter Filter Time	*tf*	2	*days*	
Required Filter Area	***Af***	**531**	***ft^2***	

Determine Actual Bio-Retention Area			
Filter Width	8	*ft*	
Filter Length	139	*ft*	
Filter Area	1112	*ft^2*	
Actual Volume Provided	1483	*ft^3*	

Determine Runoff Reduction				
Is the Bioretention contributing flow to another practice?			Select Practice	
RRv	593			
RRv applied	**593**	***ft^3***	***This is 40% of the storage provided or WQv whichever is less.***	
Volume Treated	115	*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 √	OK		*Check to be sure Area provided ≥ Af*	

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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:	1

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**
4	0.25	0.15	0.60	0.59	535.43	1.00	
Enter Impervious Area Reduced by Disconnection of Rooftops			60%	0.59	535	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						*ft^3*	

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

Calculate the Minimum Filter Area				
		Value	Units	Notes
WQv		535	*ft^3*	
Enter Depth of Soil Media	*df*	1.5	*ft*	*2.5-4 ft*
Enter Hydraulic Conductivity	*k*	0.5	*ft/day*	
Enter Average Height of Ponding	*hf*	0.5	*ft*	*6 inches max.*
Enter Filter Time	*tf*	2	*days*	
Required Filter Area	***Af***	**402**	***ft^2***	

Determine Actual Bio-Retention Area			
Filter Width	20	*ft*	
Filter Length	55	*ft*	
Filter Area	1100	*ft^2*	
Actual Volume Provided	1467	*ft^3*	

Determine Runoff Reduction				
Is the Bioretention contributing flow to another practice?			Select Practice	
RRv	587			
RRv applied	**535**	***ft^3***	***This is 40% of the storage provided or WQv whichever is less.***	
Volume Treated	0	*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 √	OK		*Check to be sure Area provided ≥ Af*	

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix E

NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-25-001

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL
CONSERVATION (NYSDEC)

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP-0-25-001

Construction General Permit (CGP)

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

of the Environmental Conservation Law

Effective Date: January 29, 2025 Expiration Date: January 28, 2030

Scott E. Sheeley

Chief Permit Administrator

Scott E. Sheeley JAN. 29, 2025

Authorized Signature Date

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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

PREFACE

Pursuant to Section 402 of the Clean Water Act (CWA), and 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), *stormwater discharges* from certain *construction activities* are unlawful unless they are authorized by a National Pollutant Discharge Elimination System (NPDES) permit or by a state permit program. New York State administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, and Article 70, as well as 6 NYCRR Parts 621 and 750.

C*onstruction activities* constitute construction of a *point source* and, therefore, pursuant to ECL sections 17-0505, 17-0701, and 17-0803, the *owner or operator* must have coverage under a SPDES permit prior to *commencement of construction activities*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES CONSTRUCTION GENERAL PERMIT (CGP) GP-0-25-001
FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

Table of Contents

Part I. How to Obtain Coverage and General Requirements 5
A. Eligibility Requirements 5
B. Types of *Discharges* Authorized 9
C. Prohibited *Discharges* 10
D. Electronic Notice of Intent (eNOI) Submittal 10
E. General Requirements for *Owners or Operators* with Permit Coverage 14
F. Permit Coverage for *Discharges* Authorized Under GP-0-20-001 18
G. Change of *Owner or Operator* 19
Part II. Water Quality-Based Effluent Limitations 20
A. Maintaining Water Quality 20
B. Effluent Limitations Applicable to *Discharges* from *Construction Activities* 20
C. Post-Construction Stormwater Management Practice (SMP) Requirements 23
Part III. Stormwater Pollution Prevention Plan (SWPPP) 28
A. General *SWPPP* Requirements 28
B. Required *SWPPP* Contents 32
C. Required *SWPPP* Components by Project Type 37
Part IV. Inspection and Maintenance Requirements 37
A. General Construction Site Inspection and Maintenance Requirements 37
B. Contractor Maintenance Inspection Requirements 37
C. *Qualified Inspector* Inspection Requirements 38
Part V. How to Terminate CGP Coverage 43
A. Electronic Notice of Termination (eNOT) Submittal 43
Part VI. Record Retention and Reporting 45
A. Record Retention 46
B. Reporting 46
Part VII. Standard Permit Requirements 46
A. Duty to Comply 46
B. Need to Halt or Reduce Activity Not a Defense 46
C. Penalties 46
D. False Statements 47
E. Re-Opener Clause 47
F. Duty to Mitigate 47
G. Requiring Another General Permit or Individual SPDES Permit 47
H. Duty to Provide Information 49
I. Extension 49
J. Signatories and Certification 50
K. Inspection and Entry 52
L. Confidentiality of Information 53
M. Other Permits May Be Required 53

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

N. NYSDEC Orders or Civil Decrees/Judgments 53
O. Property Rights 53
P. Compliance with Interstate Standards 53
Q. Oil and Hazardous Substance Liability 54
R. Severability 54
S. NYSDEC Approved Forms 54
APPENDIX A – Abbreviations and Definitions 55
Abbreviations 55
Definitions 56
APPENDIX B – Required SWPPP Components by Project Type 64
Table 1 64
Table 2 66
APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal 68
APPENDIX D – Impaired Waterbodies (by Construction Related Pollutants) 74
APPENDIX E – List of NYSDEC Regional Offices 80
APPENDIX F – SWPPP Preparer Certification Form 81
APPENDIX G – MS4 SWPPP Acceptance Form 83
APPENDIX H – NYCDEP SWPPP Acceptance/Approval Form 86
APPENDIX I – MS4 No Jurisdiction Form 89
APPENDIX J – Owner/Operator Certification Form 91

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Part I. How to Obtain Coverage and General Requirements

To be covered under this permit, the *owner or operator* must meet all eligibility requirements in Part I.A. and follow the requirements for obtaining permit coverage in Part I.D., F., or G.

A. Eligibility Requirements

For a *common plan of development or sale*, the *phase(s)* that meet the eligibility requirements in Part I.A. may obtain coverage under this permit even if other *phase(s)* of the same *common plan of development or sale* do not meet the eligibility requirements and require an individual SPDES permit.

1. The *owner's or operator's construction activities* involve soil disturbances of:

    a. one or more acres; or

    b. less than one acre which are part of a *common plan of development or sale* that will ultimately disturb one or more acres; or

    c. less than one acre where NYSDEC has determined that a SPDES permit is required for *stormwater discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of pollutants to *surface waters of the State*.

        i. 5,000 square feet or more, but less than one acre, and are in the New York City Watershed located east of the Hudson River, Appendix C Figure 1; or

        ii. 20,000 square feet or more, but less than one acre, within the municipal boundaries of the City of New York (NYC); or

        iii. less than 20,000 square feet which are part of a *common plan of development or sale* that will ultimately disturb 20,000 square feet or more, but less than one acre, within the municipal boundaries of NYC; or

        iv. that creates 5,000 square feet or more of *impervious area* within the municipal boundaries of NYC.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

2. *Discharges* from the *owner's or operator's construction activities* are/were not:

    a. already covered by a different SPDES permit; or

    b. covered under a different SPDES permit that was denied, terminated, or revoked; or

    c. identified in an expired individual SPDES permit that was not renewed; or

    d. required to obtain an individual SPDES permit or another general SPDES permit in accordance with Part VII.K.

3. If *construction activities* may adversely affect a species that is endangered or threatened, the *owner or operator* must obtain a:

    a. permit issued pursuant to 6 NYCRR Part 182 for the project; or

    b. letter issued by NYSDEC of non-jurisdiction pursuant to 6 NYCRR Part 182 for the project.

4. If *construction activities* have the potential to affect an *historic property*, the *owner or operator* must obtain one of the following:

    a. documentation that the *construction activity* is not within an archeological buffer area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant:

        i. 1-5 acres of disturbance - 20 feet; or

        ii. 5-20 acres of disturbance - 50 feet; or

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

iii. 20+ acres of disturbance - 100 feet.

b. NYSDEC consultation form sent to OPRHP,[1] and copied to NYSDEC's Agency Historic Preservation Officer (APO), and

i. the State Environmental Quality Review Act (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or

ii. documentation from OPRHP that the *construction activity* will result in No Impact; or

iii. documentation from OPRHP providing a determination of No Adverse Impact; or

iv. a Letter of Resolution signed by the *owner or operator*, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA).

c. documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

i. No Affect; or

ii. No Adverse Affect; or

iii. Executed Memorandum of Agreement.

d. documentation that SHPA Section 14.09 has been completed by NYSDEC or another state agency.

5. If *construction activities* are subject to SEQR, the *owner or operator* must obtain documentation that SEQR has been satisfied.

6. If *construction activities* are not subject to SEQR, but subject to the equivalent environmental review from another New York State or federal agency, the

[1] The consultation form can be submitted, along with other project information, through OPRHP's Cultural Resource Information System (CRIS) portal. If submitted through CRIS, paper copies of the consultation form need not be mailed.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

owner or operator must obtain documentation that project review, pursuant to a process equivalent to SEQR from another New York State or federal agency, has been satisfied.

7. If *construction activities* require Uniform Procedures Act (UPA) Permits (see 6 NYCRR Part 621) from NYSDEC, or the equivalent from another New York State or federal agency, the *owner or operator* must:

    a. obtain all such necessary permits; or

    b. receive notification from NYSDEC pursuant to 6 NYCRR 621.3(a)(4) excepting Part I.A.7.a.

8. *Construction activities* are not eligible if they meet the following criteria in Part I.A.8.a. or b.:

    a. For linear transportation and linear utility project types, the *construction activities*:

        i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

        ii. are undertaken on land with no existing *impervious cover*; and

        iii. disturb two or more acres of *steep slope*.

    b. For all other project types, the *construction activities*:

        i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

        ii. are undertaken on land with no existing *impervious cover*; and

        iii. disturb one or more acres of *steep slope*.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

B. Types of *Discharges* Authorized

1. The following *stormwater discharges* are authorized under this permit:

   a. *Stormwater discharges*, including *stormwater* runoff, snowmelt runoff, and surface runoff and drainage, associated with *construction activity*, are authorized under this permit provided that appropriate *stormwater* controls are designed, installed, and maintained in accordance with Part II. and Part III.

   b. *Stormwater discharges* from construction support activities at the *construction site* (including concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, and borrow areas) if the following requirements are met:

      i. The support activity is directly related to the *construction site* required to have permit coverage for *stormwater discharges*; and

      ii. The support activity is not a commercial operation, nor does it serve multiple unrelated *construction sites*; and

      iii. The support activity does not continue to operate beyond the completion of the *construction activity* at the site it supports; and

      iv. *Stormwater* controls are implemented in accordance with Part II. and Part III. for *discharges* from the support activity areas.

2. The following non-*stormwater discharges* associated with *construction activity* are authorized under this permit:

   a. Non-*stormwater discharges* listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "*Discharges* from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; and

   b. Non-*stormwater discharges* of waters to which other components have not been added that are used in accordance with the *SWPPP* to control dust or irrigate vegetation in stabilized areas; and

   c. Uncontaminated *discharges* from *dewatering* operations

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

3. Authorized *discharges* of *stormwater* or authorized *discharges* of non-*stormwater*, commingled with a *discharge* authorized by a different SPDES permit and/or a *discharge* that does not require SPDES permit authorization, are also authorized under this permit.

C. Prohibited *Discharges*

1. Non-*stormwater discharges* prohibited under this permit include but are not limited to:

    a. Wastewater from washout of concrete; and

    b. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials; and

    c. Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance; and

    d. Soaps, solvents, or detergents used in vehicle and equipment washing or external building washdown; and

    e. Toxic or hazardous substances from a spill or other release.

D. Electronic Notice of Intent (eNOI) Submittal

To receive authorization in accordance with Part I.D.3.b., the *owner or operator* must submit a complete eNOI in accordance with the requirements in Part I.D. The eNOI contains questions to: ensure eligibility requirements in Part I.A. have been met; obtain *owner or operator* contact information; obtain the total area to be disturbed and the existing/future *impervious areas* (rounded to the nearest tenth of an acre); confirm *Traditional Land Use Control MS4 Operator* jurisdiction over construction projects; satisfy the EPA eRule requirements; confirm that the Water Quality-Based Effluent Limitations in Part II. have been met; demonstrate consideration of the future risks due to climate change in accordance with Part III.A.2.; and confirm that the other *Stormwater Pollution Prevention Plan (SWPPP)* requirements in Part III. have been met.

1. An eNOI may be submitted for:

    a. *construction activities* that are not part of a *common plan of development or sale*; or

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

b. an entire *common plan of development or sale*; or

c. separate *phase(s)* of a *common plan of development or sale* if the following requirements are met:

   i. the *common plan of development or sale* meets the eligibility requirements of Part I.A.5. or 6.; and

   ii. the *phase(s)* meet(s) all other eligibility requirements of Part I.A.; and

   iii. Part III.C. Required *SWPPP* Components by Project Type is based on the *common plan of development or sale*, not the *phase(s)*; or

d. *tree clearing* that is associated with, or will support, a *renewable energy* generation, transmission, or storage project that meets Part I.A.5. and 6., if the *tree clearing*:

   i. meets all other eligibility requirements of Part I.A.; and

   ii. will occur in NYSDEC's Regions 3-9; and

   iii. is not within ¼ mile of a bat hibernaculum protected pursuant to 6 NYCRR Part 182; and

   iv. will occur between November 1st and March 31st.

2. As prerequisites for submitting an eNOI, the *owner or operator* must:

   a. prepare a *SWPPP* for Part I.D.1.a., b., c., or d. in accordance with Part III.; and

   b. based on the following criteria, upload the following signature forms signed in accordance with Part VII.J. to the eNOI prior to submission:

      i. for all eNOIs:

         1. the SWPPP Preparer Certification Form, Appendix F, signed by the *SWPPP* preparer; and

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

2. the Owner/Operator Certification Form, Appendix J, signed by the *owner or operator*; and

ii. if an eNOI includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that will *discharge* to the *MS4(s)*:

1. determine if the *Traditional Land Use Control MS4 Operator(s)* have review authority. A *Traditional Land Use Control MS4 Operator* does not have review authority where:

a. the *owner or operator* of the *construction activities* in Part I.D.2.b.ii. is the same entity as the *Traditional Land Use Control MS4 Operator* identified in Part I.D.2.b.ii.; or

b. there is a statute exempting the *owner or operator* from zoning review by the *Traditional Land Use Control MS4 Operator*; or

c. there is no such statute per Part I.D.2.b.ii.1.b., the *Traditional Land Use Control MS4 Operator* concludes, after public hearing, that it does not have zoning review authority in accordance with Legal Memorandum LU14 Updated January 2020 “Governmental Immunity from Zoning and Other Legislation”; and

2. if the *Traditional Land Use Control MS4 Operator(s)* have review authority, submit the *SWPPP* to the *Traditional Land Use Control MS4 Operator(s)* for review and have:

a. if outside the municipal boundaries of NYC: the MS4 SWPPP Acceptance Form, Appendix G, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.; or

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

b. if within the municipal boundaries of NYC: The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval Form, Appendix H, signed by the principal executive officer or ranking elected official from the Traditional Land Use Control MS4 Operator, or by a duly authorized representative of that person in accordance with Part VII.J.2.; and

3. if the *Traditional Land Use Control MS4 Operator* does not have review authority, have the MS4 No Jurisdiction Form, Appendix I, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.

3. Submitting an eNOI:

a. The *owner or operator* must submit a complete Notice of Intent electronically using a NYSDEC approved form.[2]

b. The *owner or operator* is authorized to *commence construction activity* as of the authorization date indicated in the Letter of Authorization (LOA), which is sent by NYSDEC after a complete eNOI is submitted.

i. If an eNOI is received for a *SWPPP* that deviates from one of the technical standards but demonstrates *equivalence* in accordance with Part III.B.1.a.ii. or Part III.B.2.b.ii., if the *SWPPP* includes *construction activities* that are not within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)*, and/or if the *SWPPP* includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that do not have review authority in accordance with Part I.D.2.b.ii.1., the authorization date indicated in the LOA will be 60 business days after the eNOI submission date.

[2] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

c. If *Traditional Land Use Control MS4 Operator(s)* have review authority in accordance with Part I.D.2.b.ii.2., the *owner or operator* must, within five business days of receipt of the LOA, send an electronic copy of the LOA to the *Traditional Land Use Control MS4 Operator(s)* with review authority.

E. General Requirements for *Owners or Operators* with Permit Coverage

1. As of the date the LOA is received, the *owner or operator* must make the eNOI, *SWPPP*, and LOA available for review and copying in accordance with the requirements in Part VII.H. When applicable, as of the date an updated LOA is received, the *owner or operator* must make the updated LOA available for review and copying in accordance with the requirements in Part VII.H.

2. The *owner or operator* must ensure compliance with all requirements of this permit and that the provisions of the *SWPPP*, including any changes made to the *SWPPP* in accordance with Part III.A.5., are properly implemented and maintained from the *commencement of construction activity* until:

   a. all areas of disturbance have achieved *final stabilization;* and

   b. the owner's or operator's coverage under this permit is terminated in accordance with Part V.A.5.a.

3. As of the date of the *commencement of construction activities* until Part I.E.2.a. and b. have been met, the *owner or operator* must maintain at the *construction site*, a copy of:

   a. all documentation necessary to demonstrate eligibility with this permit; and

   b. this permit; and

   c. the *SWPPP*; and

   d. the signed SWPPP Preparer Certification Form; and

   e. the signed MS4 SWPPP Acceptance Form or signed NYCDEP SWPPP Acceptance/Approval Form or signed MS4 No Jurisdiction Form (when applicable); and

   f. the signed Owner/Operator Certification Form; and

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

g. the eNOI; and

h. the LOA; and

i. the LOA transmittal to the Traditional Land Use Control MS4 Operator in accordance with Part I.D.3.c. (when applicable).

4. The *owner or operator* must maintain at the *construction site*, until Part I.E.2.a. and b. have been met, as of the date the documents become final or are received, a copy of the:

   a. responsible contractor's or subcontractor's certification statement(s) in accordance with Part III.A.7.; and

   b. inspection reports in accordance with Part IV.C.4. and 6.; and

   c. Request to Disturb Greater Than Five Acres and the Authorization Letter to Disturb Greater Than Five Acres in accordance with Part I.E.6. (when applicable); and

   d. Request to Continue Coverage and the Letter of Continued Coverage (LOCC) in accordance with Part I.F.2. and 4. (when applicable); and

   e. The updated LOA(s) in accordance with Part I.E.9. (when applicable).

5. The *owner or operator* must maintain the documents in Part I.E.3. and 4. in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection. The documents must be paper documents unless electronic documents are accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be. If electronic documents are kept on site, the *owner or operator* must maintain functional equipment on site available to an inspector during normal hours of operation such that an inspector may view the electronic documents in a format that can be read in a similar manner as a paper record and in a legally dependable format with no less evidentiary value than their paper equivalent.

6. The *owner or operator* must meet the following requirements prior to disturbing greater than five acres of soil at any one time:

   a. The *owner or operator* must submit a written Request to Disturb Greater Than Five Acres to:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

i. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, if a *Traditional Land Use Control MS4 Operator* does not have review authority in accordance with Part I.D.2.b.ii.1.; or

ii. the *Traditional Land Use Control MS4 Operator*, if a *Traditional Land Use Control MS4 Operator* has review authority in accordance with Part I.D.2.b.ii.1.; or

iii. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, and each involved *Traditional Land Use Control MS4 Operator*, if the project spans multiple municipalities with more than one *Traditional Land Use Control MS4 Operator* involved with review authority in accordance with Part I.D.2.b.ii.1.

b. The written Request to Disturb Greater Than Five Acres must include:

i. The SPDES permit identification number (Permit ID); and

ii. Full technical justification demonstrating why alternative methods of construction that would result in five acres of soil disturbance or less at any one time are not feasible; and

iii. The phasing plan for the project and sequencing plans for all *phases* from the *SWPPP* in accordance with Part III.B.1.d.; and

iv. Plans with locations and details of erosion and sediment control practices such that the heightened concern for erosion when disturbing greater than five acres at one time has been addressed; and

v. Acknowledgment that "the *owner or operator* will comply with the requirements in Part IV.C.2.b."; and

vi. Acknowledgment that "the *owner or operator* will comply with the requirements in Part II.B.1.b."

c. The *owner or operator* must be in receipt of an Authorization Letter to Disturb Greater Than Five Acres, which will include when the

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

authorization begins and ends and indicate a maximum area (acres) of soil disturbance allowed at any one time, from:

i. NYSDEC, if Part I.E.6.a.i. or iii. apply; or

ii. the *Traditional Land Use Control MS4 Operator*, if Part I.E.6.a.ii. applies.

7. Upon a finding of significant non-compliance with the practices described in the *SWPPP* or violation of this permit, NYSDEC may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order must be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

8. If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE).[3] *Construction activity* shall not resume until written permission to do so has been received from the RWE.

9. To be authorized to implement modifications to the information previously submitted in the eNOI, the *owner or operator* must:

   a. notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI; and

   b. update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D.; and

   c. receive an updated LOA.

10. The eNOI, *SWPPP*, LOA, updated LOAs (when applicable), and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

[3] The Regional Water Manager where a DEC Region does not have a RWE.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

F. Permit Coverage for *Discharges* Authorized Under GP-0-20-001

When applicable:

1. Upon the effective date of this permit, an *owner or operator* of *a construction activity*, with coverage under GP-0-20-001, will have interim coverage under GP-0-25-001 for 45 calendar days starting on the effective date of GP-0-25-001 so long as the *owner or operator* maintains compliance with all applicable requirements of this permit.

2. Within 30 calendar days of the effective date of this permit, the *owner or operator*, with coverage under GP-0-20-001, must submit a complete Request to Continue Coverage electronically using a NYSDEC approved form,[4] which contains the information identified in Part I.F.3. below, if:

   a. the *owner or operator* continues to implement the SMP component in conformance with the technical standards in place at the time of initial project authorization; and

   b. the *owner or operator* will comply with all non-design requirements of GP-0-25-001.

3. The Request to Continue Coverage form contains questions to: ensure eligibility requirements in Part I.A. have been met; verify *owner or operator* contact information; verify the permit identification number; verify the original eNOI submission ID, if applicable; verify Part I.F.2.a. and b.; verify the version of the Design Manual that the technical/design components conform to; and receive an updated Owner/Operator Certification Form, Appendix I.

4. The *owner or operator* has obtained continued coverage under GP-0-25-001 as of the date indicated in the LOCC, which is sent by NYSDEC after a complete Request to Continue Coverage form is submitted.

5. If the owner or operator does not submit the Request to Continue Coverage form in accordance with Part I.F.2. and 3., coverage under this permit is automatically terminated after interim coverage expires.

[4] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

G. Change of *Owner or Operator*

When applicable:

1. When property ownership changes, or when there is a change in operational control over the construction plans and specifications, the following process applies:

    a. The new *owner or operator* must meet the applicable prerequisites for submitting an eNOI in accordance with Part I.D.2.; and

    b. The new *owner or operator* must submit an eNOI in accordance with Part I.D.3.; and

    c. Permit coverage for the new *owner or operator* will be effective upon receipt of the LOA in accordance with Part I.D.3.b.; and

    d. The new *owner or operator*, upon receipt of their LOA, must provide their Permit ID to the original *owner or operator*; and

    e. If the original *owner or operator* will no longer be the *owner or operator* of the *construction activity* identified in the original *owner's or operator's* eNOI, the original *owner or operator*, upon receipt of the new *owner's or operator's* Permit ID in accordance with Part I.G.1.d., must submit to NYSDEC a completed eNOT in accordance with Part V. that includes the name and Permit ID of the new *owner or operator*; or

    f. If the original *owner or operator* maintains ownership of a portion of the *construction activity*, the original *owner or operator* must maintain their coverage under the permit by modifying their eNOI; modifications to the eNOI must include:

        i. the revised area of disturbance and/or *impervious area(s)*; and

        ii. the revised SMP information, if applicable; and

        iii. a narrative description of what has changed; and

        iv. the new *owner's or operator's* Permit ID for the portion of the project removed from the eNOI.

    Owners or operators must follow Part I.E.9. to modify the eNOI.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Part II. Water Quality-Based Effluent Limitations

A. Maintaining Water Quality

NYSDEC expects that compliance with the requirements of this permit will control *discharge*s necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any *discharge* to either cause or contribute to a violation of the following *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York:

1. There must be no increase in turbidity that will cause a substantial visible contrast to natural conditions; and

2. There must be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and

3. There must be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the *stormwater discharge*s authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standard,* the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this permit and document in accordance with Part IV.C.4. of this permit. To address the *water quality standard* violation the *owner or operator* must include and implement appropriate controls in the *SWPPP* to correct the problem or obtain an individual SPDES permit.

If, despite compliance with the requirements of this permit, it is demonstrated that the *stormwater discharge*s authorized by this permit are causing or contributing to a violation of *water quality standards*, or if NYSDEC determines that a modification of this permit is necessary to prevent a violation of *water quality standards*, the authorized *discharge*s will no longer be eligible for coverage under this permit, and the *owner or operator* must obtain an individual SPDES permit prior to further *discharges* from the *construction site*.

B. Effluent Limitations Applicable to *Discharges* from *Construction Activities*

*Discharge*s authorized by this permit must achieve, at a minimum, the effluent limitations in Part II.B.1.a., b., c., d., and e. These limitations represent the

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement, and maintain control measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part II.B.1.a., b., c., d., and e. and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (BB), dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in *SWPPP* the reason(s) for the deviation, or alternative design, and provide information in the *SWPPP* demonstrating that the deviation or alternative design is *equivalent* to the technical standard.

    a. **Erosion and Sediment Controls.** At a minimum, erosion and sediment controls must be selected, designed, installed, implemented, and maintained to:

        i. *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharge*s; and

        ii. Control *stormwater discharge*s, including both peak flow rates and total *stormwater* volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points; and

        iii. *Minimize* the amount of soil exposed during *construction activity*; and

        iv. *Minimize* the disturbance of *steep slope*; and

        v. *Minimize* sediment *discharge*s from the site; and

        vi. Provide and maintain *natural buffers* around surface waters, direct *stormwater* to vegetated areas and maximize *stormwater* infiltration to reduce *pollutant discharge*s, unless *infeasible*; and

        vii. *Minimize* soil compaction. *Minimizing* soil compaction is not required

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

where the intended function of a specific area of the site dictates that it be compacted; and

viii. Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and

ix. *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of *pollutants* that could be discharged from the site.

b. **Soil Stabilization**. In areas where soil disturbance activity has ceased, whether permanently or *temporarily ceased*, the application of soil stabilization measures must be initiated by the end of the next business day and completed within 14 calendar days from the date the current soil disturbance activity ceased. For *construction sites* that *directly discharge* to one of the 303(d) segments listed in Appendix D, or are located in one of the watersheds listed in Appendix C, or are authorized to disturb greater than five acres in accordance with Part I.E.5.a.viii., the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven calendar days from the date the soil disturbance activity ceased.

c. **Dewatering**. *Discharge*s from *dewatering* activities, including *discharge*s from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

d. **Pollution Prevention Measures**. Select, design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be selected, designed, installed, implemented, and maintained to:

i. *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. Soaps, detergents and solvents cannot be used; and

ii. *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

and to *stormwater*. *Minimization* of exposure is not required in cases where the exposure to precipitation and to *stormwater* will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of *stormwater* contamination (such as final products and materials intended for outdoor use); and

iii. Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

e. **Surface Outlets.** When discharging from basins and impoundments, the surface outlets must be designed, constructed, and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-Construction Stormwater Management Practice (SMP) Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction SMPs, in accordance with Part III.C., must select, design, install, implement, and maintain the SMPs to meet the *performance criteria* in the New York State Stormwater Management Design Manual, dated July 31, 2024 (DM), using sound engineering judgment. Where SMPs are not designed in conformance with the *performance criteria* in the DM, the *owner or operator* must include in the *SWPPP* the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. The *owner or operator* of a *construction activity*, that requires SMPs in accordance with Part III.C., must design the practices to meet the applicable *sizing criteria* in Part II.C.2.a., b., c., or d.

a. Sizing Criteria for *New Development*

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the total WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv must be calculated in accordance with the criteria in Section 4.2 of the DM; or

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the requirements in Part II.C.2.a.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

   In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.4 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

   1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or

   2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs without detention or velocity controls; or

   3. The site *directly discharges* into a fifth order or larger water body (stream, river, or lake), or tidal waters, where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

iii. *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or

2. A downstream analysis reveals that *overbank* control is not required.

iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or

2. A downstream analysis reveals that *overbank* control is not required.

b. *Sizing Criteria* for *New Development* in Enhanced Phosphorus Removal Watersheds

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24-hour design storm over the post-developed watershed and must be calculated in accordance with the criteria in Section 4.3 of the DM; or

2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part II.C.2.b.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible.*

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.5 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or

2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs; or

3. The site *directly discharges* to tidal waters, or a fifth order or larger water body (stream, river, or lake) where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

iii. *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or

2. A downstream analysis reveals that *overbank* control is not required.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or

2. A downstream analysis reveals that *overbank* control is not required.

c. *Sizing Criteria* for *Redevelopment Activity*

i. Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* must be addressed by one of the following options, as outlined in Section 9.2.1. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C) must calculate the WQv in accordance with Section 4.3 of the DM. All other *redevelopment activities* must calculate the WQv in accordance with Section 4.2 of the DM.

1. Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the DM must be applied to all newly created pervious areas; or

2. Capture and treat 100% of the required WQv, for a minimum of 25% of the disturbed redevelopment *impervious area*, by implementation of standard SMPs or reduced by application of runoff reduction techniques; or

3. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a volume-based alternative SMP, as defined in Section 9.4 of the DM; or

4. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a flow-through alternative SMP sized to treat the peak rate of runoff from the WQv design storm; or

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

5. Application of a combination of 1 through 4 above that provide a weighted average of at least two of the above methods. Application of this method must be in accordance with the criteria in Section 9.2.1(A)(V) of the DM; or

6. If there is an existing SMP located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 through 5 above.

ii. Channel Protection Volume (CPv) is not required if there is 0% change to hydrology that increases the *discharge* rate and volume from the project site.

iii. *Overbank* Flood Control (Qp) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

iv. Extreme Flood Control (Qf) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

d. *Sizing Criteria* for Combination of *Redevelopment Activity* and *New Development*

Construction projects, that include both *new development* and *redevelopment activity*, must use SMPs that meet the *sizing criteria* calculated as an aggregate of the *sizing criteria* in Part II.C.2.a. or b. for the *new development* portion of the project and Part II.C.2.c. for the *redevelopment activity* portion of the project.

Part III. Stormwater Pollution Prevention Plan (SWPPP)

A. General *SWPPP* Requirements

1. A *SWPPP* must be prepared and implemented by the *owner or operator* of all *construction activity* covered by this permit. All authorized *discharges* must be identified in the *SWPPP*. The *SWPPP* must document the selection, design, installation, implementation and maintenance of the control measures and

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

practices that will be used to meet the effluent limitations in Part II.B. and, where applicable, the SMP requirements in Part II.C.

2. The *SWPPP* must demonstrate consideration in narrative format of the future physical risks due to climate change pursuant to the Community Risk and Resiliency Act (CRRA), 6 NYCRR Part 490, and associated guidance.

    a. The owner or operator must consider:

        i. the following physical risks due to climate change:

            (i) increasing temperature; and

            (ii) increasing precipitation; and

            (iii) increasing variability in precipitation, including chance of drought; and

            (iv) increasing frequency and severity of flooding; and

            (v) rising sea level; and

            (vi) increasing storm surge; and

            (vii) shifting ecology.

        ii. for each of the following:

            (i) overall site planning; and

            (ii) location, elevation, and sizing of:

                a. control measures and practices; and

                b. conveyance system(s); and

                c. detention system(s).

3. The *SWPPP* must describe the erosion and sediment control practices and where required, SMPs that will be used and/or constructed to reduce the *pollutants* in *stormwater discharges* and to assure compliance with the

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

requirements of this permit. In addition, the *SWPPP* must identify potential sources of pollution which may reasonably be expected to affect the quality of *stormwater discharges*.

4. All *SWPPPs*, that require the SMP component in accordance with Part III.B.2., must be prepared by a *qualified professional*.

5. The *owner or operator* must keep the *SWPPP* current so that, at all times, it accurately documents the erosion and sediment control practices that are being used or will be used during construction, and all SMPs that will be constructed on the site. At a minimum, the *owner or operator* must modify the *SWPPP*, including construction drawings:

   a. whenever the current provisions prove to be ineffective in *minimizing pollutants* in *stormwater discharges* from the site; and

   b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*; and

   c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* NYSDEC, or other regulatory authority; and

   d. to document the final construction conditions in an as-built drawing.

6. NYSDEC may notify the *owner or operator* at any time that the *SWPPP* does not meet one or more of the minimum requirements of this permit. The notification must be in writing and identify the provisions of the *SWPPP* that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by NYSDEC, the *owner or operator* must make the required changes to the *SWPPP* and submit written notification to NYSDEC that the changes have been made. If the *owner or operator* does not respond to NYSDEC's comments in the specified time frame, NYSDEC may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4.

7. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion and sediment control practices included in the *SWPPP* and the

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

contractor(s) and subcontractor(s) that will be responsible for constructing the SMPs included in the *SWPPP*. The *owner or operator* must have each of the contractors and subcontractors identify at least one person from their company to be *trained contractor* that will be responsible for implementation of the *SWPPP*. The *owner or operator* must ensure that at least one *trained contractor* is on site daily when soil disturbance activities are being performed.

The *owner or operator* must have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before the *commencement of construction activities*:

> "I hereby certify under penalty of law that I understand and agree to comply with the requirements of the *SWPPP* and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) for Stormwater Discharges from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the *SWPPP* that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for *SWPPP* implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* must attach the certification statement(s) to the copy of the *SWPPP* that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the *SWPPP* after the *commencement of construction activities*, they must also sign the certification statement and provide the information listed above prior to performing *construction activities*.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

B. Required *SWPPP* Contents

1. Erosion and sediment control component - The *owner or operator* must prepare a *SWPPP* that includes erosion and sediment control practices.

   a. Erosion and sediment control practices must be designed:

      i. in conformance with the BB; or

      ii. *equivalent* to the BB if deviating from Part III.B.1.a.i.

   b. If the erosion and sediment control practices are designed in conformance with Part III.B.1.a.ii., the *SWPPP* must include a demonstration of *equivalence* to the BB.

   c. At a minimum, the erosion and sediment control component of the *SWPPP* must include the following:

      i. Background information about the scope of the project, including the location, type and size of project; and

      ii. A site map/construction drawing(s) with north arrows for the project, including a general location map. At a minimum, the site map must show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the *stormwater discharge*(s) and receiving surface water(s); and

      iii. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG); and

      iv. A phasing plan for the project and sequencing plans for all *phases*, both of which must address clearing and grubbing, excavation and grading, utility and infrastructure installation, *final stabilization*,

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

and any other *construction activity* at the site that will result in soil disturbance.

1. The phasing plan must include:

    a. a map delineating and labeling the limits of soil disturbance for all *phases* of a project; and

    b. a table identifying the order and intended schedule of when each *phase* will begin and end its sequencing plan. The table must identify the total disturbed area for each *phase* at any one time and the total disturbed area for the overall project at any one time all on one timeline showing all overlapping quantities of disturbed area at any one time; and

2. A sequencing plan for a specific *phase* must include:

    a. a table indicating the order and intended schedule of *construction activities* within a *phase*, and corresponding construction drawings with a description of the work to be performed; and

    b. all permanent and *temporary stabilization* measures; and

v. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented; and

vi. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice; and

vii. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

temporary sediment basins and structural practices that will be used to divert flows from exposed soils; and

viii. A maintenance inspection schedule for the contractor(s) and subcontractor(s) identified in Part III.A.7. to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection schedule must be in accordance with the requirements in the BB technical standard; and

ix. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the *stormwater discharges*; and

x. A description and location of any *stormwater discharges* associated with industrial activity other than construction at the site, including, but not limited to, *stormwater discharges* from asphalt plants and concrete plants located on the *construction site*; and

xi. Identification of any elements of the design that are not in conformance with the design criteria in the BB technical standard. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. SMP component – The *owner or operator* of *construction activity* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs.

   a. SMPs must be designed in conformance with the applicable *sizing criteria* in Part II.C.2.a., c., or d.; and

   b. SMPs must be designed in conformance with the *performance criteria*:

      i. in the DM; or

      ii. *equivalent* to the DM if deviating from Part III.B.2.b.i.; or

      iii. in the New York State Stormwater Management Design Manual, dated January 2015 (2015 Design Manual), or *equivalent* to it, if the following criteria are met:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

1. The eNOI is submitted in accordance with Part I.D. before January 29, 2027 for *construction activities* that are either:

    a. subject to governmental review and approval:

        i. where the *owner or operator* made any application to that governmental entity prior to the effective date of this permit; and

        ii. such application included a *SWPPP* developed using the 2015 Design Manual or *equivalent* to it; or

    b. not subject to governmental review and approval:

        i. where a fiscal allocation for the *construction activities* has been developed and approved by a governmental entity; and

        ii. the *SWPPP* was developed using the 2015 Design Manual or *equivalent* to it; and

c. If SMPs are designed in conformance with Part III.B.2.b.ii., the *SWPPP* must include the reason(s) for the deviation or alternative design and a demonstration of *equivalence* to the DM; and

d. If SMPs are designed in conformance with Part III.B.2.b.iii., the *SWPPP* must include supporting information or documentation demonstrating that Part III.B.2.b.iii.1.a. or b. apply; and

e. The SMP component of the *SWPPP* must include the following:

    i. Identification of all SMPs to be constructed as part of the project, including which option the SMP designs conform to, either Part III.B.2.b.i., ii., or iii. Include the dimensions, material specifications and installation details for each SMP; and

    ii. A site map/construction drawing(s) showing the specific location and size of each SMP; and

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

iii. A Stormwater Modeling and Analysis Report that includes:

(i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points; and

(ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and SMPs; and

(iii) Results of *stormwater* modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre- and post-development runoff rates and volumes for the different storm events; and

(iv) Summary table, with supporting calculations, which demonstrates that each SMP has been designed in conformance with the *sizing criteria* included in the DM; and

(v) Identification of any *sizing criteria* that is not required based on the requirements included in Part II.C.; and

(vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the DM. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the DM.

iv. Soil testing results and locations (test pits, borings); and

v. Infiltration test results, when required in accordance with Part III.B.2.a.; and

vi. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each SMP. The plan must identify the entity

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

that will be responsible for the long-term operation and maintenance of each practice; and

3. Enhanced Phosphorus Removal Standards - The *owner or operator* of *construction activity* identified in Table 2 of Appendix B that is located in a watershed identified in Appendix C must prepare a *SWPPP* that includes SMPs designed in conformance with the applicable *sizing criteria* in Part II.C.2.b., c., or d. and the *performance criteria* Enhanced Phosphorus Removal Standards included in the DM. At a minimum, the SMP component of the *SWPPP* must meet the requirements of Part III.B.2.

C. Required *SWPPP* Components by Project Type

Owners or operators of *construction activities*, identified in Table 1 of Appendix B, are required to prepare a *SWPPP* that only includes erosion and sediment control practices designed in accordance with Part III.B.1. *Owners or operators* of the *construction activities*, identified in Table 2 of Appendix B, must prepare a *SWPPP* that also includes SMPs designed in accordance with Part III.B.2 or 3.

For the entire area of disturbance, including the entire *common plan of development or sale* if applicable, the owner or operator must evaluate every bullet from Appendix B Table 1 and Table 2 separately. If bullets from both Table 1 and Table 2 apply, the *SWPPP* must include erosion and sediment control practices for all *construction activities* but SMPs for only those portions of the *construction activities* that fall under Table 2 bullet(s).

Part IV. Inspection and Maintenance Requirements

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures), and all SMPs identified in the *SWPPP*, are inspected and maintained in accordance with Part IV.B. and C.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity*, identified in Tables 1 and 2 of Appendix B, must have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor must:

a. if the corrective action does not require engineering design:

    i. begin implementing corrective actions within one business day; and

    ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

    i. begin the engineering design process within five business days; and

    ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

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

3. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections in accordance with Part IV.B.1. if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational.

C. *Qualified Inspector* Inspection Requirements

1. With the exception of the following *construction activities* identified in Tables 1 and 2 of Appendix B, a *qualified inspector* must conduct site inspections for all other *construction activities* identified in Tables 1 and 2 of Appendix B:

    a. the construction of a single-family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than or equal to five (5) acres and is

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D; and

b. the construction of a single-family home that involves soil disturbances of one (1) or more acres but less than or equal to five (5) acres and is not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D; and

c. construction on *agricultural property* that involves soil disturbances of one (1) or more acres but less than five (5) acres; and

d. *construction activities* located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances of 5,000 square feet or more, but less than one acre.

2. The *qualified inspector* must conduct site inspections in accordance with the following timetable:

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

b. For *construction sites* where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part I.E.6. to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days; or

c. For *construction sites* where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* must conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas under the jurisdiction of a *Traditional Land Use Control MS4 Operator,* the *Traditional Land Use Control MS4 Operator* (provided the *Traditional Land Use Control MS4 Operator* is not the *owner or operator* of the *construction activity*) by hard copy or email prior to reducing the inspections to this frequency and again by hard copy or email prior to re-commencing construction; or

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

d. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the requirement to have the *qualified inspector* conduct inspections ceases if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1., the *Traditional Land Use Control MS4 Operator(s)* (provided the *Traditional Land Use Control MS4 Operator(s)* are not the *owners or operators* of the *construction activity*) in writing prior to the shutdown and again in writing prior to resuming *construction activity*. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* must terminate coverage by meeting the requirements of Part V; or

e. For *construction sites* involving soil disturbance of one (1) or more acres that *directly discharge* to one of the 303(d) segments listed in Appendix D or is located in one of the watersheds listed in Appendix C, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* must inspect:

a. all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness; and

b. all SMPs under construction to ensure that they are constructed in conformance with the *SWPPP*; and

c. all areas of disturbance that have not achieved *final stabilization*; and

d. all points of *discharge* to *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site*; and

e. all points of *discharge* from the *construction site*.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

4. The *qualified inspector* must prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report must include and/or address all of the following, for all *construction activities* except those listed in Part IV.C.1.:

   a. Permit identification number; and

   b. Date and time of inspection; and

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

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

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

   f. A description of the condition of all *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This must include identification of any *discharges* of sediment to the *surface waters of the State*; and

   g. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance; and

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

   i. Description and sketch (map) of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection; and

   j. Estimates, in square feet or acres, of the following areas:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

i. Total area with active soil disturbance (not requiring either *temporary stabilization* or *final stabilization*); and

ii. Total area with inactive soil disturbance (requiring either *temporary stabilization* or *final stabilization*); and

iii. Total area that has achieved *temporary stabilization*; and

iv. Total area that has achieved *final stabilization*; and

k. Current stage of construction of all SMPs and identification of all *construction activity* on site that is not in conformance with the *SWPPP* and technical standards; and

l. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the SMP(s); and

m. Identification and status of all corrective actions that were required by previous inspection; and

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

5. Within one business day of the completion of an inspection, the *qualified inspector* must notify the *owner or operator*, and appropriate contractor or subcontractor identified in Part III.A.7., of any corrective actions that need to be taken. The contractor or subcontractor must:

a. if the corrective action does not require engineering design:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

i. begin implementing corrective actions within one business day; and

ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

i. begin the engineering design process within five business days; and

ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

6. All inspection reports must be signed by the *qualified inspector.* In accordance with Part I.E.3., the inspection reports must be maintained on site with the *SWPPP*.

Part V. How to Terminate CGP Coverage

A. Electronic Notice of Termination (eNOT) Submittal

The eNOT contains questions to ensure requirements in Part V.A. have been met.

1. An *owner or operator* must terminate coverage when one or more of the following requirements have been met:

a. Total project completion:

i. all *construction activity* identified in the *SWPPP* has been completed; and

ii. all areas of disturbance have achieved *final stabilization*; and

iii. all temporary, structural erosion and sediment control measures have been removed; and

iv. all SMPs have been constructed in conformance with the *SWPPP* and are operational; and

v. an as-built drawing has been prepared; or

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

b. Planned shutdown with partial project completion:

   i. all soil disturbance activities have ceased; and

   ii. all areas disturbed as of the project shutdown date have achieved *final stabilization*; and

   iii. all temporary, structural erosion and sediment control measures have been removed; and

   iv. all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational; and

   v. an as-built drawing has been prepared; or

c. In accordance with Part I.G. Change of Owner or Operator; or

d. The *owner or operator* has obtained coverage under an alternative general SPDES permit or an individual SPDES permit.

2. For *construction activities* that require *qualified inspector* inspections in accordance with Part IV.C.1. and have met Part V.A.1.a. or b., the *owner or operator* must have the *qualified inspector* perform a final site inspection prior to submitting the eNOT. The *qualified inspector* must, by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice(s)" certification statements on the eNOT, certify that all the requirements in Part V.A.1.a. or b. have been achieved.

3. For *construction activities* that are subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1. and meet Part V.A.1.a. or b., the *owner or operator* must have the *Traditional Land Use Control MS4 Operator(s)* sign the "MS4 Acceptance" statement on the eNOT in accordance with the requirements in Part VII.J. A *Traditional Land Use Control MS4 Operator* official, by signing this statement, determined that it is acceptable for the *owner or operator* to submit the eNOT in accordance with the requirements of this Part. A *Traditional Land Use Control MS4 Operator* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector*'s final site inspection certification(s) when required in Part V.A.2.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

4. For *construction activities* that require SMPs and meet Part V.A.1.a. or b., the *owner or operator* must, prior to submitting the eNOT, ensure one of the following:

    a. for SMP(s) that were constructed by a private entity, but will be owned, operated, and maintained by a public entity, the SMP(s) and any right-of-way(s) needed to operate and maintain such practice(s) have been deeded to the municipality in which the practice(s) is located; or

    b. for SMP(s) that are privately owned, but will be operated and maintained by a public entity, an executed operation and maintenance agreement is in place with the municipality that will operate and maintain the SMP(s); or

    c. for SMP(s) that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record; or

    d. for SMP(s) that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility, the *owner or operator* has policies and procedures in place that ensure operation and maintenance of the practices in accordance with the operation and maintenance plan.

5. An *owner or operator* that has met the requirements of Part V.A.1., 2., 3., and 4. must request termination of coverage under this permit by submitting a complete Notice of Termination form electronically using a NYSDEC approved form.[5]

    a. The owner's or operator's coverage is terminated as of the termination date indicated in the Letter of Termination (LOT), which is sent by NYSDEC after a complete eNOT is submitted.

[5] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Part VI. Record Retention and Reporting

A. Record Retention

The *owner or operator* must retain a copy of the documents listed in Part I.E.3. and a copy of the LOT for a period of at least five years from the date that NYSDEC accepts a complete NOT submitted in accordance with Part V.

B. Reporting

Except for the eNOI, the signature forms associated with the eNOI, and the eNOT, all other written correspondence requested by NYSDEC, including individual permit applications, must be sent to the address of the appropriate DOW (SPDES) Program contact at the Regional Office listed in Appendix E.

Part VII. Standard Permit Requirements

For the purposes of this permit, examples of contractors and subcontractors include: third-party maintenance and construction contractors.

A. Duty to Comply

The *owner or operator*, and all contractors or subcontractors, must comply with all requirements of this permit. Any non-compliance with the requirements of this permit constitutes a violation of the New York State Environmental Conservation Law (ECL), and its implementing regulations, and is grounds for enforcement action. Filing of a request for termination of coverage under this permit, or a notification of planned changes or anticipated non-compliance, does not limit, diminish or stay compliance with any requirements of this permit.

B. Need to Halt or Reduce Activity Not a Defense

The necessity to halt or reduce the *construction activity* regulated by this permit, in order to maintain compliance with the requirements of this permit, must not be a defense in an enforcement action.

C. Penalties

There are substantial criminal, civil, and administrative penalties associated with violating the requirements of this permit. Fines of up to $37,500 per day for each

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

violation and imprisonment for up to 15 years may be assessed depending upon the nature and degree of the offense.

D. False Statements

Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance must, upon conviction, be punished in accordance with ECL §71-1933 and or New York State Penal Law Articles 175 and 210.

E. Re-Opener Clause

Upon issuance of this permit, a determination has been made on the basis of a submitted Notice of Intent, plans, or other available information, that compliance with the specified permit requirements will reasonably protect classified water use and assure compliance with applicable *water quality standards*. Satisfaction of the requirements of this permit notwithstanding, if operation pursuant to this permit causes or contributes to a condition in contravention of State *water quality standards* or guidance values, or if NYSDEC determines that a modification is necessary to prevent impairment of the best use of the waters or to assure maintenance of *water quality standards* or compliance with other provisions of ECL Article 17 or the Clean Water Act (CWA), or any regulations adopted pursuant thereto, NYSDEC may require such modification and the Commissioner may require abatement action to be taken by the *owner or operator* and may also prohibit such operation until the modification has been implemented.

F. Duty to Mitigate

The *owner or operator*, and its contractors and subcontractors, must take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

G. Requiring Another General Permit or Individual SPDES Permit

NYSDEC may require any *owner or operator* authorized to *discharge* in accordance with this permit to apply for and obtain an individual SPDES permit or apply for authorization to *discharge* in accordance with another general SPDES permit.

1. Cases where an individual SPDES permit or authorization to discharge in accordance with another general SPDES permit may be required include, but is not limited to the following:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

a. the *owner or operator* is not in compliance with the conditions of this permit or does not meet the requirements for coverage under this permit; and

b. a change has occurred in the availability of demonstrated technology or practices for the control or abatement of *pollutants* applicable to the *point source*; and

c. new effluent limitation guidelines or new source performance standards are promulgated that are applicable to *point sources* authorized to *discharge* in accordance with this permit; and

d. existing effluent limitation guidelines or new source performance standards that are applicable to *point sources* authorized to *discharge* in accordance with this permit are modified; and

e. a water quality management plan containing requirements applicable to such *point sources* is approved by NYSDEC; and

f. circumstances have changed since the time of the request to be covered so that the *owner or operator* is no longer appropriately controlled under this permit, or either a temporary or permanent reduction or elimination of the authorized *discharge* is necessary; and

g. the *discharge* is in violation of section 17-0501 of the ECL; and

h. the *discharge(s)* is a significant contributor of *pollutants*. In making this determination, NYSDEC may consider the following factors:

    i. the location of the *discharge(s)* with respect to *surface waters of the State*; and

    ii. the size of the *discharge(s)*; and

    iii. the quantity and nature of the *pollutants discharged* to *surface waters of the State*; and

    iv. other relevant factors including compliance with other provisions of ECL Article 17, or the CWA.

2. When NYSDEC requires any *owner or operator* authorized by this permit to apply for an individual SPDES permit as provided for in this subdivision, it must notify the *owner or operator* in writing that a permit application is required. This notice must include a brief statement of the reasons for this decision, an application

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

form, a statement setting a time for the *owner or operator* to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from the *owner's or operator's* receipt of the notification letter, whereby the authorization to *discharge* under this permit must be terminated. NYSDEC may grant additional time upon demonstration, to the satisfaction of the RWE,[6] that additional time to apply for an alternative authorization is necessary or where NYSDEC has not provided a permit determination in accordance with 6 NYCRR Part 621.

3. When an individual SPDES permit is issued to an *owner or operator* authorized to *discharge* under this permit for the same *discharge(s)*, this permit authorization for *construction activities* authorized under the individual SPDES permit is automatically terminated on the effective date of the individual SPDES permit unless termination is earlier in accordance with 6 NYCRR Part 750.

H. Duty to Provide Information

The *owner or operator* must furnish to NYSDEC, within five business days, unless otherwise set forth by NYSDEC, any information that NYSDEC may request to determine whether cause exists to determine compliance with this permit or to determine whether cause exists for requiring an individual SPDES permit in accordance with 6 NYCRR 750-1.21(e) (see Part VII.G. Requiring Another General Permit or Individual Permit).

The *owner or operator* must make available to NYSDEC, for inspection and copying, or furnish to NYSDEC within 25 business days of receipt of a NYSDEC request for such information, any information retained in accordance with this permit.

Except for Part I.D.4. and 5. and Part I.G., the following applies: where the *owner or operator* becomes aware that it failed to submit any relevant facts on the Notice of Intent, or submitted incorrect information in a Notice of Intent or in any report to NYSDEC, the *owner or operator* must submit such facts or corrected information to NYSDEC within five business days.

I. Extension

In the event a new permit is not issued and effective prior to the expiration of this permit, and this permit is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, then the *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the requirements of this permit until a new permit is issued and effective.

[6] The Regional Water Manager where a DEC Region does not have a RWE.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

J. Signatories and Certification

The Notice of Intent, Notice of Termination, and reports required by this permit must be signed as provided in 40 CFR §122.22.

1. All Notices of Intent and Notices of Termination must be signed as follows:

   a. For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

      (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or

      (ii) the manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for Notice of Intent or Notice of Termination requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

      Note: NYSDEC does not require specific assignments or delegations of authority to responsible corporate officers identified in 40 CFR §122.22(a)(1)(i). NYSDEC will presume that these responsible corporate officers have the requisite authority to sign the Notice of Intent or Notice of Termination unless the corporation has notified NYSDEC to the contrary. Corporate procedures governing authority to sign a Notice of Intent or Notice of Termination may provide for assignment or delegation to applicable corporate positions under 40 CFR §122.22(a)(1)(ii) rather than to specific individuals.

   b. For a partnership or sole proprietorship. By a general partner or the proprietor, respectively.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

c. For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

   1. the chief executive officer of the agency; or

   2. a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. All reports required by this permit, and other information requested by NYSDEC, must be signed by a person described in Part VII.J.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part VII.J.1. or using the Duly Authorized Form, found on the DEC website; and

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

   c. The written authorization is submitted to NYSDEC.

3. Changes to authorization. If an authorization under Part VII.J.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the *construction activity*, a new authorization satisfying the requirements of Part VII.J.2. must be submitted to NYSDEC prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under Part VII.J.1. or 2. must make the following certification:

   I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

5. Electronic reporting. If documents described in Part VII.J.1. or 2. are submitted electronically by or on behalf of the *construction activity* with coverage under this permit, any person providing the electronic signature for such documents must meet all relevant requirements of this section, and must ensure that all of the relevant requirements of 40 CFR Part 3 (including, in all cases, subpart D to Part 3) (Cross-Media Electronic Reporting) and 40 CFR Part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

K. Inspection and Entry

The *owner or operator* must allow NYSDEC, the USEPA Regional Administrator, the applicable county health department, or any authorized representatives of those entities, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the *discharge*, upon the presentation of credentials and other documents as may be required by law, to:

1. enter upon the *owner's or operator's* premises where a regulated facility or activity is located or conducted or where records must be kept under the requirements of this permit; and

2. have access to and copy at reasonable times, any records that must be kept under the requirements of this permit, including records required to be maintained for purposes of operation and maintenance; and

3. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and

4. sample or monitor at reasonable times, for the purposes of assuring general SPDES permit compliance or as otherwise authorized by the CWA or ECL, any substances or parameters at any location; and

5. enter upon the property of any contributor to the regulated facility or activity under authority of the *owner or operator*.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

L. Confidentiality of Information

The following must not be held confidential: this permit, the fact sheet for this permit, the name and address of any *owner or operator*, effluent data, the Notice of Intent, and information regarding the need to obtain an individual permit or an alternative general SPDES permit. This includes information submitted on forms themselves and any attachments used to supply information required by the forms (except information submitted on usage of substances). Upon the request of the *owner or operator*, NYSDEC must make determinations of confidentiality in accordance with 6 NYCRR Part 616, except as set forth in the previous sentence. Any information accorded confidential status must be disclosed to the Regional Administrator upon his or her written request. Prior to disclosing such information to the Regional Administrator, NYSDEC will notify the Regional Administrator of the confidential status of such information.

M. Other Permits May Be Required

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

N. NYSDEC Orders or Civil Decrees/Judgments

The issuance of this permit by the NYSDEC, and the coverage under this permit by the *owner or operator*, does not supersede, revoke, or rescind any existing order on consent or civil Decree/Judgment, or modification to any such documents or to any order issued by the Commissioner, or any of the terms, conditions, or requirements contained in such order or modification therefore, unless expressly noted.

O. Property Rights

Coverage under this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining the assent of any other jurisdiction as required by law for the *discharge* authorized.

P. Compliance with Interstate Standards

If the *construction activity* covered by this permit originates within the jurisdiction of an interstate water pollution control agency, then the *construction activity* must also comply with any applicable effluent standards or *water quality standards* promulgated by that interstate agency and as set forth in this permit for such *construction activities*.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Q. Oil and Hazardous Substance Liability

Coverage under this permit does not affect the imposition of responsibilities upon, or the institution of any legal action against, the *owner or operator* under section 311 of the CWA, which must be in conformance with regulations promulgated pursuant to section 311 governing the applicability of section 311 of the CWA to *discharges* from facilities with *NPDES* permits, nor must such issuance preclude the institution of any legal action or relieve the *owner or operator* from any responsibilities, liabilities, or penalties to which the *owner or operator* is or may be subject pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. section 9601 et seq. (CERCLA).

R. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, must not be affected thereby.

S. NYSDEC Approved Forms

The *owner or operator* must provide all relevant information that is requested by NYSDEC, and required by this permit, on all NYSDEC approved forms.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX A – Abbreviations and Definitions

Abbreviations

APO – Agency Preservation Officer
BB – New York State Standards and Specifications for Erosion and Sediment Control (Blue Book), dated November 2016
BMP – Best Management Practice
CPESC – Certified Professional in Erosion and Sediment Control
CPv – Channel Protection Volume
CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)
DM – New York State Stormwater Management Design Manual (Design Manual), dated July 31, 2024
DOW – Division of Water
EAF – Environmental Assessment Form
ECL – chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law
EPA – U.S. Environmental Protection Agency
HSG – Hydrologic Soil Group
MS4 – Municipal Separate Storm Sewer System
NOI – Notice of Intent
NOT – Notice of Termination
NPDES – National Pollutant Discharge Elimination System
NYC – The City of New York
NYCDEP – The City of New York Department of Environmental Protection
NYSDEC – The New York State Department of Environmental Conservation
OPRHP – Office of Parks, Recreation and Historic Places
Qf – Extreme Flood
Qp – Overbank Flood
RR – Runoff Reduction
RRv – Runoff Reduction Volume
RWE – Regional Water Engineer
SEQR – State Environmental Quality Review Act
SHPA – State Historic Preservation Act
SMP – Post-Construction Stormwater Management Practice
SPDES – State Pollutant Discharge Elimination System
SWPPP – Stormwater Pollution Prevention Plan
TMDL – Total Maximum Daily Load
UPA – Uniform Procedures Act
USDA – United States Department of Agriculture
WQv – Water Quality Volume

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix A

Definitions

All definitions in this section are solely for the purposes of this permit. If a word is not italicized in the permit, use its common definition.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property – the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023).

Alter Hydrology from Pre- to Post-Development Conditions – the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer System – a sewer system which conveys sewage and *stormwater* through a single pipe system to a publicly owned treatment works.

Commence (Commencement of) Construction Activities – the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the *SWPPP*. See definition for "*Construction Activity(ies)*" also.

Common Plan of Development or Sale – a contiguous area where multiple separate and distinct *construction activities* are occurring, or may occur, under one plan. The "common plan" of development or sale is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQR) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating *construction activities* may occur on a specific plot. A *common plan of development or sale* is comprised of two or more *phases*.

Common plan of development or sale does not include separate and distinct *construction activities* that are occurring, or may occur, under one plan that are at least 1/4 mile apart provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Construction Activity(ies) – identified within 40 CFR 122.26(b)(14)(x), 122.26(b)(15)(i), and 122.26(b)(15)(ii), any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, mechanized logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal.

Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, which is excluded from the calculation of the soil disturbance for a project. Routine maintenance includes, but is not limited to:

- Re-grading of gravel roads or parking lots; and
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of the ditch; and
- Replacement of existing culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of a ditch; and
- Replacement of existing bridges that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity beneath the bridges; and
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch); and
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*; and
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material; and
- Long-term use of equipment storage areas at or near highway maintenance facilities; and
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*; and
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts; and
- Maintenance of ski trails including brush hog use and mowing; and
- Above ground snowmaking pipe replacement; and
- Replacement of existing utility poles; etc.

Construction Site – the land area where *construction activity(ies)* will occur. See also the definitions for "*Commence (Commencement of) Construction Activities"* and "*Common Plan of Development or Sale."*

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Dewatering – the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Directly Discharge(s)(ing) (to a specific surface waterbody) – runoff flows from a *construction site* by overland flow and the first point of *discharge* is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system and the first point of *discharge* from the separate storm sewer system is the specific surface waterbody.

Discharge(s)(d) – any addition of any *pollutant* to waters of the State through an outlet or *point source*.

Embankment – an earthen or rock slope that supports a road/highway.

Equivalent (Equivalence) – the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization – all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other *equivalent* stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

Historic Property – any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) – all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and compacted gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – not technologically possible, or not economically practicable and achievable considering best industry practices.

Minimize(ing)(ation) – reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer System (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

1. owned or operated by a State, city, town, village, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, *stormwater*, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA, that *discharges* to *surface waters of the State*; and

2. designed or used for collecting or conveying *stormwater*; and

3. which is not a *combined sewer system*; and

4. which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

Natural Buffer(s) – an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – any land disturbance that does not meet the definition of *Redevelopment Activity* included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

Nonpoint Source(s) – any source of water pollution or *pollutants* which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank – flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator – the person, persons, or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit requirements.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Performance Criteria – the six performance criteria for each group of SMPs in Chapters 5 and 6 of the technical standard, New York State Stormwater Management Design Manual (DM), dated July 31, 2024. These include feasibility, conveyance, pretreatment, treatment, landscaping, and maintenance. It does not include the *Sizing Criteria* (i.e. WQv, RRv, CPv, Qp and Qf) in Part I.C.2. of the permit.

Phase – a defined area in which *construction activities* are occurring or will occur separate from other defined area(s).

Point Source – any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be *discharged*.

Pollutant(s) – dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast *discharged* into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq.

Qualified Inspector – a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder or other NYSDEC endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any SMPs that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Qualified Professional – a person that is knowledgeable in the principles and practices of *stormwater* management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other NYSDEC endorsed individual(s). Individuals preparing *SWPPPs* that require the SMP component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the *SWPPP* that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – the disturbance and reconstruction of existing *impervious area*, including *impervious areas* that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Renewable Energy – electricity or thermal energy generated by renewable energy systems through use of the following technologies: solar thermal, photovoltaics, on land and offshore wind, hydroelectric, geothermal electric, geothermal ground source heat, tidal energy, wave energy, ocean thermal, and fuel cells which do not utilize a fossil fuel resource in the process of generating electricity.

Site Limitations – site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical *site limitations* include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of *site limitations* shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – the criteria included in Part I.C.2 of the permit that are used to size SMPs. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

Steep Slope – land area designated on the current United States Department of Agriculture (USDA) Soil Survey as Soil Slope Phase D, (provided the map unit name or description is inclusive of slopes greater than 25%), or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Stormwater – that portion of precipitation that, once having fallen to the ground, is in excess of the evaporative or infiltrative capacity of soils, or the retentive capacity of surface features, which flows or will flow off the land by surface runoff to waters of the State.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Streambank – the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – a project specific report, including construction drawings, that among other things: describes the *construction activity(ies)*, identifies the potential sources of pollution at the *construction site*; describes and shows the *stormwater* controls that will be used to control the *pollutants* (i.e. erosion and sediment controls; for many projects, includes SMPs); and identifies procedures the *owner or operator* will implement to comply with the requirements of the permit. See Part III of the permit for a complete description of the information that must be included in the *SWPPP*.

Surface Waters of the State – shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization – exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Load (TMDL) – the sum of the allowable loads of a single *pollutant* from all contributing point and *nonpoint source*s. It is a calculation of the maximum amount of a *pollutant* that a waterbody can receive and still meet *water quality standards*, and an allocation of that amount to the *pollutant's* sources. A TMDL stipulates Waste Load Allocations (WLA) for *point source discharges*, Load Allocations (LA) for *nonpoint source*s, and a margin of safety (MOS).

Traditional Land Use Control MS4 Operator – a city, town, or village with land use control authority that is authorized to *discharge* under New York State DEC's SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Trained Contractor – an employee from the contracting (construction) company, identified in Part III.A.7., that has received four (4) hours of NYSDEC endorsed training

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.7., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity).

The *trained contractor* is responsible for the day-to-day implementation of the *SWPPP*.

Tree Clearing – *construction activities* limited to felling and removal of trees.

Tree clearing does not include hand felling and leaving the trees in place with no support from mechanized equipment, which is not considered *construction activity* requiring coverage under this permit.

Water Quality Standard – such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX B – Required SWPPP Components by Project Type

Table 1
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following *construction activities* that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:

- Single-family home not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family residential subdivisions with 25% or less *impervious cover* at total site build-out and not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D
- Construction of a barn or other *agricultural building*, silo, stock yard or pen.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that include construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.

The following *construction activities* that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:

- All construction activities located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

Within the municipal boundaries of NYC:

- Stand-alone road reconstruction, where the total soil disturbance from only that road construction, is less than one (1) acre of land.

The following *construction activities*:

- Installation of underground linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains
- Environmental enhancement projects, such as wetland mitigation, *stormwater* retrofits, stream restoration, and resiliency projects that reconstruct shoreline areas to address sea level rise
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an *impervious cover*
- Cross-country ski trails, walking/hiking trails, and mountain biking trails, including a de minimis parking lot (maximum 10 spaces total, sized for passenger cars) with 35 feet minimum preservation of undisturbed area downgradient from the parking lot
- Dam rehabilitation (the structure of the dam itself)
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are not part of residential, commercial, or institutional development;
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path, or walking path.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix B

Table 1 (Continued)
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following *construction activities*:

- Slope stabilization
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics
- Spoil areas that will be covered with vegetation
- Vegetated open space (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) that do not *alter hydrology from pre- to post-development* conditions
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions
- Demolition where vegetation will be established, and no *redevelopment activity* is planned[1]
- Installation or replacement of either an overhead electric transmission line or a ski lift tower that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*.
- Solar array field areas that have tables elevated off the ground, spaced one table width apart, do not *alter hydrology from pre- to post-development conditions*, and address water quality volume and runoff reduction volume by maintaining sheet flow on slopes less than 8%.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that do not include construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions.
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary *impervious areas* that will be restored to pre-construction conditions once the *construction activity* is complete (in this context, "temporary" means the *impervious area* will be in place for two years or less)
- Other *construction activities* that do not include the construction or reconstruction of *impervious area*, and do not *alter hydrology from pre- to post-development* conditions, and are not listed in Table 2.

1. If the site is redeveloped in the future, a new eNOI must be submitted.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix B

Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPS)

The following *construction activities*:

- Single-family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family home that disturbs five (5) or more acres of land
- Single-family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of between 20,000 square feet and one (1) acre of land within the municipal boundaries of NYC with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single-family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a *common plan of development or sale* that will ultimately disturb five (5) or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Creation of 5,000 square feet or more of *impervious area* in the municipal boundaries of NYC
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) that involves soil disturbance greater than five acres.
- Structural agricultural conservation practices as identified in Table II in the “Agricultural Best Management Practice Systems Catalogue” (dated June 2023) that involves soil disturbance greater than five acres and include the construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.
- Facility buildings, including ski lodges, restroom buildings, pumphouses, ski lift terminals, and maintenance and groomer garages
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills; including creation of landfills or capping landfills.
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTWs, water treatment plants, and water storage tanks
- Golf courses
- Office complexes

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPS)

The following *construction activities*:

- Permanent laydown yards and equipment storage lots
- Playgrounds that include the construction or reconstruction of *impervious area*
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surfaces
- Road construction or reconstruction, outside the municipal boundaries of NYC
- Road construction within the municipal boundaries of NYC
- Stand-alone road reconstruction, within the municipal boundaries of NYC where the total soil disturbance from that road reconstruction involves soil disturbance of one (1) acre or more of land
- Parking lot construction or reconstruction (as with all Table 2 bullets, this includes parking lots constructed as part of the *construction activities* listed in Table 1, unless a Table 1 bullet specifies otherwise)
- Athletic fields (natural grass) that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations, and well drilling pads, surfaced with *impervious cover,* and constructed as part of an overhead electric transmission line, wind-power, cell tower, oil or gas well drilling, sewer or water main, ski lift, or other linear utility project
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of a residential, commercial or institutional development
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of highway construction or reconstruction
- Solar array field areas on slopes greater than 8% that cannot maintain sheet flow using management practices identified in the BB or the DM
- Solar array field areas on slopes less than 8% that will *alter the hydrology from pre- to post-development* conditions
- Solar array field areas with tables that are not elevated high enough to achieve *final stabilization* beneath the tables
- Traditional *impervious areas* associated with solar development (e.g. roads, buildings, transformers)
- Utility pads surfaced with *impervious cover*, including electric vehicle charging stations
- All other *construction activities* that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre- to post-development* conditions, and are not listed in Table 1

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

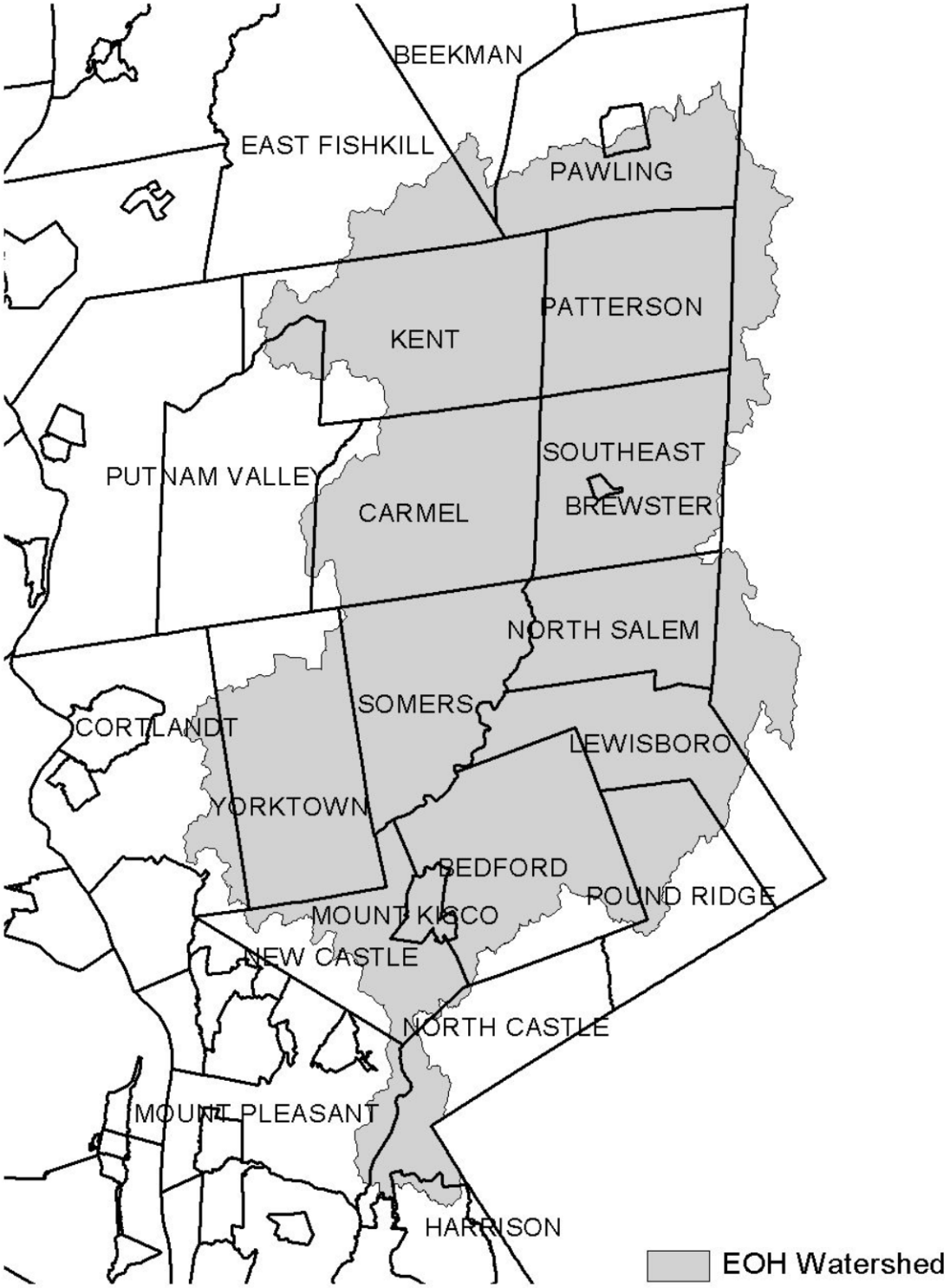
Watersheds where *owners or operators* of *construction activities* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs designed in conformance with the Enhanced Phosphorus Removal Standards included in the DM technical standard.

- Entire New York City Watershed located east of the Hudson River – Figure 1
- Onondaga Lake Watershed – Figure 2
- Greenwood Lake Watershed – Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix C

Figure 1 - New York City Watershed East of the Hudson



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix C

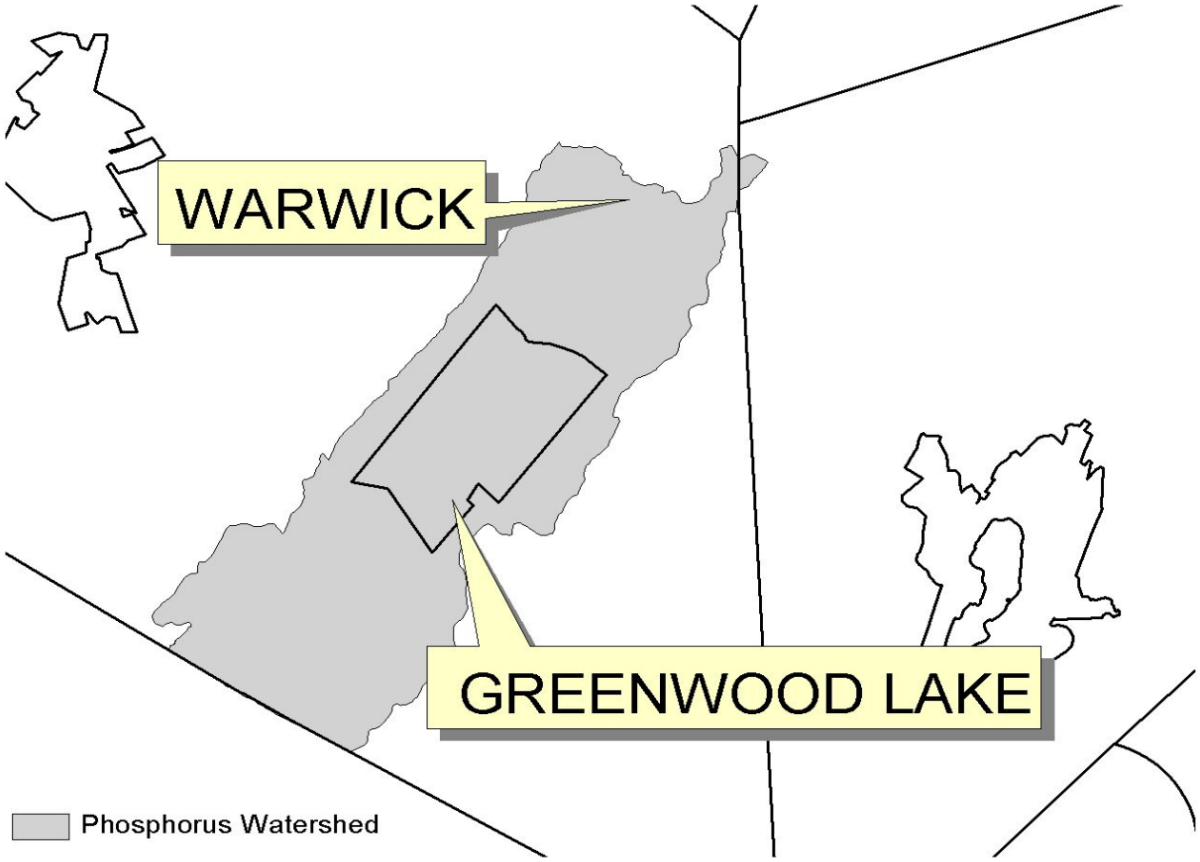
Figure 2 - Onondaga Lake Watershed



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix C

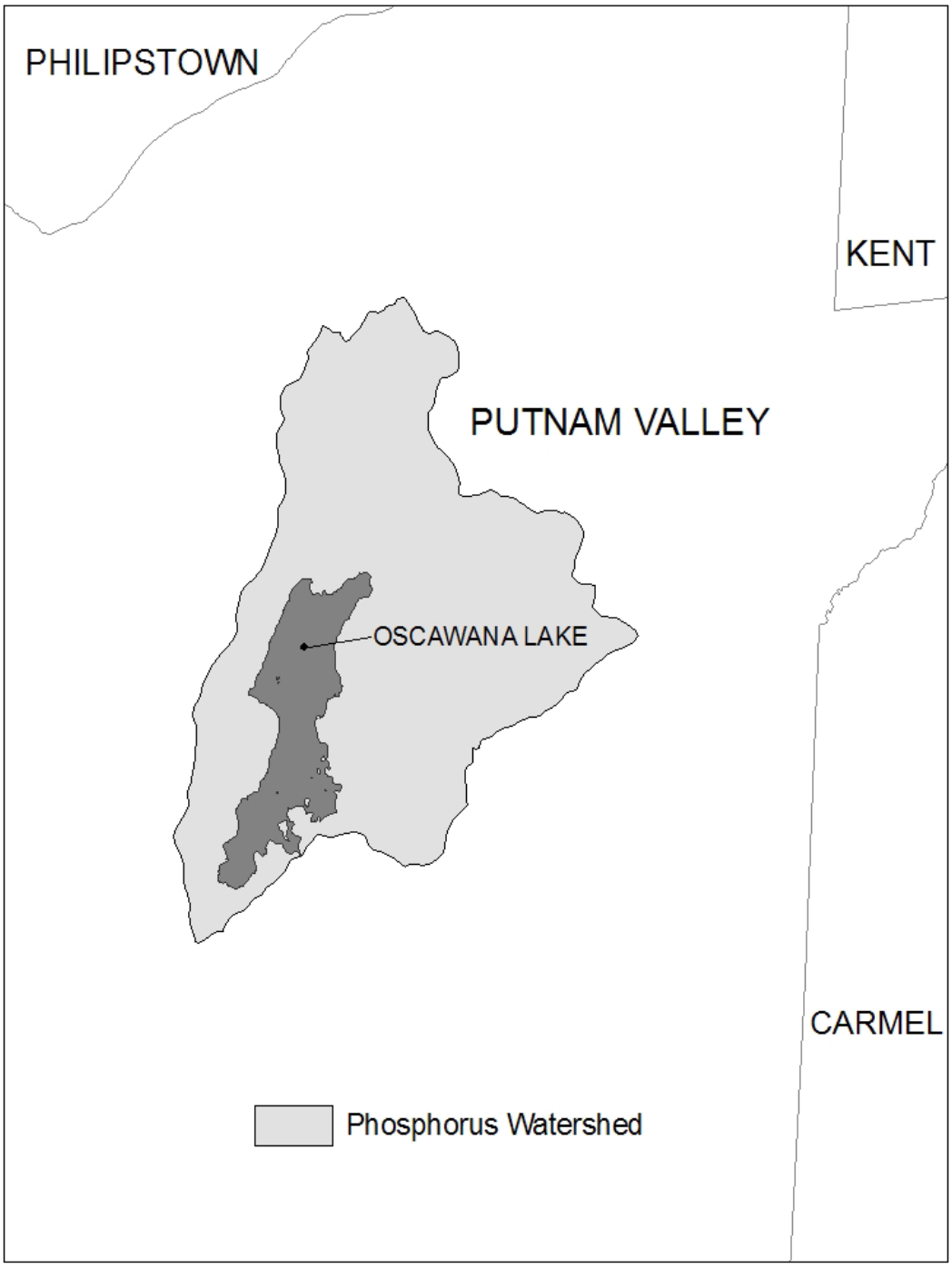
Figure 3 - Greenwood Lake Watershed



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix C

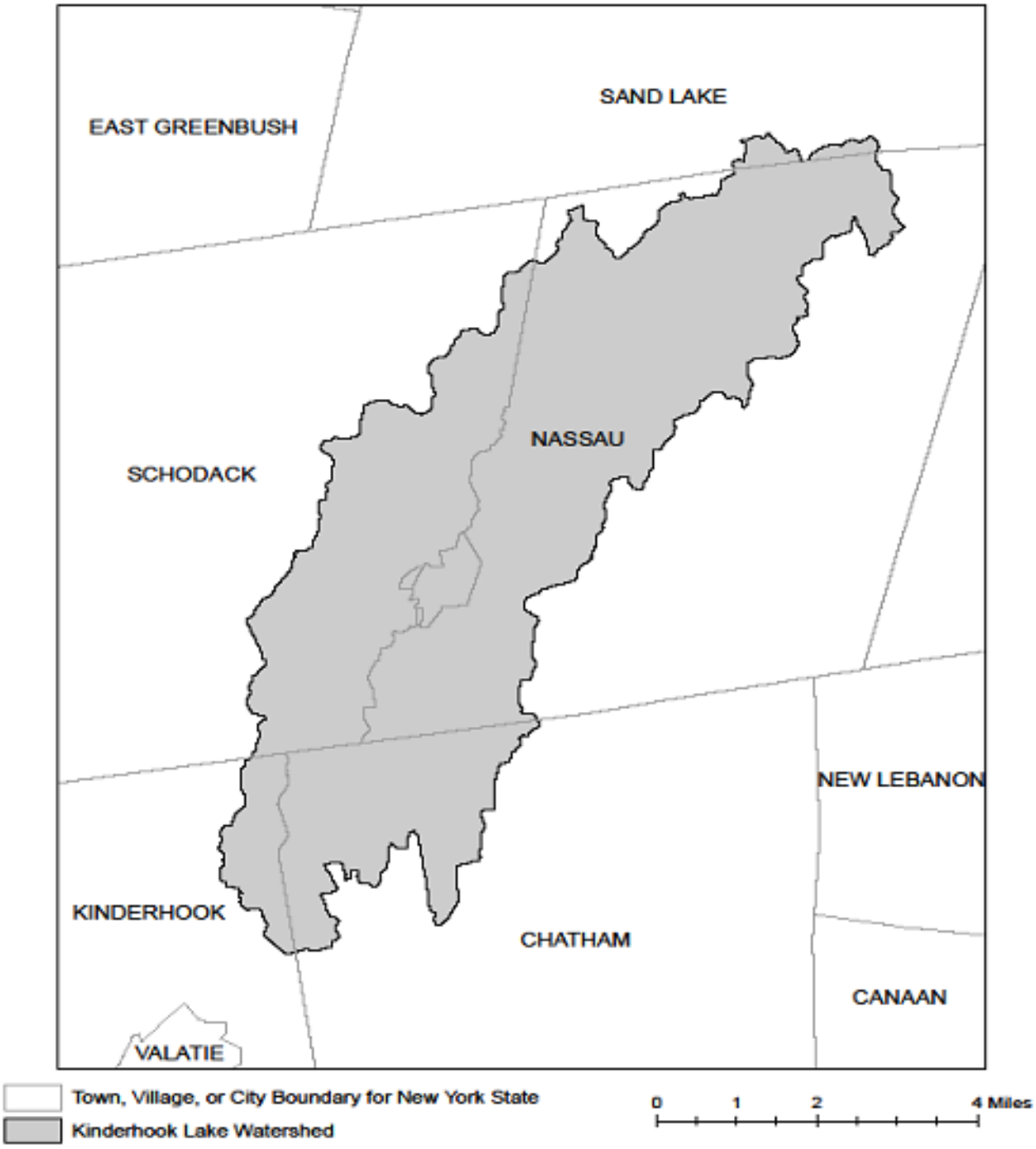
Figure 4 - Oscawana Lake Watershed



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix C

Figure 5 - Kinderhook Lake Watershed



Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX D – Impaired Waterbodies (by Construction Related Pollutants)

List of waterbodies impaired by *pollutants* related to *construction activity*, including turbidity, silt/sediment, and nutrients (e.g. nitrogen, phosphorus). This list is a subset of "The Final New York State 2018 Section 303(d) List of Impaired Waters Requiring a TMDL" dated June 2020.

County	Waterbody	Pollutant
Albany	Ann Lee (Shakers) Pond, Stump Pond (1201-0096)	Phosphorus
Albany	Lawsons Lake (1301-0235)	Phosphorus
Allegany	Amity Lake, Saunders Pond (0403-0054)	Phosphorus
Allegany	Andover Pond (0403-0056)	Phosphorus
Bronx	Reservoir No.1/Lake Isle (1702-0075)	Phosphorus
Bronx	Van Cortlandt Lake (1702-0008)	Phosphorus
Broome	Blueberry, Laurel Lakes (1404-0033)	Phosphorus
Broome	Fly Pond, Deer Lake (1404-0038)	Phosphorus
Broome	Minor Tribs to Lower Susquehanna (0603-0044)	Phosphorus
Broome	Whitney Point Lake/Reservoir (0602-0004)	Phosphorus
Cattaraugus	Allegheny River/Reservoir (0201-0023)	Phosphorus
Cattaraugus	Beaver Lake/Alma Pond (0201-0073)	Phosphorus
Cattaraugus	Case Lake (0201-0020)	Phosphorus
Cattaraugus	Linlyco/Club Pond (0201-0035)	Phosphorus
Cayuga	Duck Lake (0704-0025)	Phosphorus
Cayuga	Owasco Inlet, Upper, and tribs (0706-0014)	Nutrients
Chautauqua	Chadakoin River and tribs (0202-0018)	Phosphorus
Chautauqua	Hulburt/Clymer Pond (0202-0079)	Phosphorus
Chautauqua	Middle Cassadaga Lake (0202-0002)	Phosphorus
Clinton	Great Chazy River, Lower, Main Stem (1002-0001)	Silt/Sediment
Columbia	Robinson Pond (1308-0003)	Phosphorus
Cortland	Dean Pond (0602-0077)	Phosphorus
Dutchess	Fallkill Creek (1301-0087)	Phosphorus
Dutchess	Hillside Lake (1304-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Silt/Sediment
Erie	Beeman Creek and tribs (0102-0030)	Phosphorus
Erie	Delaware Park Pond (0101-0026)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Silt/Sediment
Erie	Green Lake (0101-0038)	Phosphorus
Erie	Little Sister Creek, Lower, and tribs (0104-0045)	Phosphorus
Erie	Murder Creek, Lower, and tribs (0102-0031)	Phosphorus

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Erie	Rush Creek and tribs (0104-0018)	Phosphorus
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Phosphorus
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Phosphorus
Erie	Scajaquada Creek, Upper, and tribs (0101-0034)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Silt/Sediment
Genesee	Bigelow Creek and tribs (0402-0016)	Phosphorus
Genesee	Black Creek, Middle, and minor tribs (0402 0028)	Phosphorus
Genesee	Black Creek, Upper, and minor tribs (0402-0048)	Phosphorus
Genesee	Bowen Brook and tribs (0102-0036)	Phosphorus
Genesee	LeRoy Reservoir (0402-0003)	Phosphorus
Genesee	Mill Pond (0402-0050)	Phosphorus
Genesee	Oak Orchard Cr, Upper, and tribs (0301-0014)	Phosphorus
Genesee	Oatka Creek, Middle, and minor tribs (0402-0031)	Phosphorus
Genessee	Tonawanda Cr, Middle, Main Stem (0102-0002)	Phosphorus
Greene	Schoharie Reservoir (1202-0012)	Silt/Sediment
Greene	Sleepy Hollow Lake (1301-0059)	Silt/Sediment
Herkimer	Steele Creek tribs (1201-0197)	Phosphorus
Herkimer	Steele Creek tribs (1201-0197)	Silt/Sediment
Kings	Hendrix Creek (1701-0006) 18	Nitrogen
Kings	Prospect Park Lake (1701-0196)	Phosphorus
Lewis	Mill Creek/South Branch, and tribs (0801-0200)	Nutrients
Livingston	Christie Creek and tribs (0402-0060)	Phosphorus
Livingston	Conesus Lake (0402-0004)	Phosphorus
Livingston	Mill Creek and minor tribs (0404-0011)	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs (0402-0033)	Phosphorus
Monroe	Buck Pond (0301-0017)	Phosphorus
Monroe	Cranberry Pond (0301-0016)	Phosphorus
Monroe	Durand, Eastman Lakes (0302-0037)	Phosphorus
Monroe	Lake Ontario Shoreline, Western (0301-0069) 9	Phosphorus
Monroe	Long Pond (0301-0015)	Phosphorus
Monroe	Mill Creek and tribs (0302-0025)	Phosphorus 2
Monroe	Mill Creek/Blue Pond Outlet and tribs (0402-0049)	Phosphorus
Monroe	Minor Tribs to Irondequoit Bay (0302-0038)	Phosphorus
Monroe	Rochester Embayment - East (0302-0002) [9]	Phosphorus
Monroe	Rochester Embayment - West (0301-0068) 9	Phosphorus
Monroe	Shipbuilders Creek and tribs (0302-0026)	Phosphorus 2
Monroe	Thomas Creek/White Brook and tribs (0302-0023)	Phosphorus

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Nassau	Bannister Creek/Bay (1701-0380)	Nitrogen
Nassau	Beaver Lake (1702-0152)	Phosphorus
Nassau	Browswere Bay (1701-0383)	Nitrogen
Nassau	Camaans Pond (1701-0052)	Phosphorus
Nassau	East Meadow Brook, Upper, and tribs (1701-0211)	Silt/Sediment
Nassau	East Rockaway Channel (1701-0381)	Nitrogen
Nassau	Glen Cove Creek, Lower, and tribs (1702-0146)	Silt/Sediment
Nassau	Grant Park Pond (1701-0054)	Phosphorus
Nassau	Hempstead Bay, Broad Channel (1701-0032)	Nitrogen
Nassau	Hempstead Lake (1701-0015)	Phosphorus
Nassau	Hewlett Bay (1701-0382)	Nitrogen
Nassau	Hog Island Channel (1701-0220)	Nitrogen
Nassau	Massapequa Creek, Upper, and tribs (1701-0174)	Phosphorus
Nassau	Milburn/Parsonage Creeks, Upp, and tribs (1701-0212)	Phosphorus
Nassau	Reynolds Channel, East (1701-0215) [12]	Nitrogen
Nassau	Reynolds Channel, West (1701-0216) 12	Nitrogen
Nassau	Tidal Tribs to Hempstead Bay (1701-0218)	Nitrogen
Nassau	Tribs (fresh) to East Bay (1701-0204)	Silt/Sediment
Nassau	Tribs (fresh) to East Bay (1701-0204)	Phosphorus
Nassau	Tribs to Smith Pond/Halls Pond (1701-0221)	Phosphorus
Nassau	Woodmere Channel (1701-0219)	Nitrogen
New York	Harlem Meer (1702-0103)	Phosphorus
New York	The Lake in Central Park (1702-0105)	Phosphorus
Niagara	Bergholtz Creek and tribs (0101-0004)	Phosphorus
Niagara	Hyde Park Lake (0101-0030)	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0053) 9	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0072) 9	Phosphorus
Oneida	Ballou, Nail Creeks (1201-0203)	Phosphorus
Onondaga	Ley Creek and tribs (0702-0001) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nitrogen (NH3, NO2)
Onondaga	Onondaga Creek, Lower (0702-0023) 10	Nutrients (phosphorus)
Onondaga	Onondaga Creek, Lower, and tribs (0702-0023)	Turbidity
Onondaga	Onondaga Creek, Middle, and tribs (0702-0004)	Turbidity
Onondaga	Onondaga Creek, Upper, and tribs (0702-0024)	Turbidity
Ontario	Great Brook and minor tribs (0704-0034)	Phosphorus 2
Ontario	Great Brook and minor tribs (0704-0034)	Silt/Sediment

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Ontario	Hemlock Lake Outlet and minor tribs (0402-0013)	Phosphorus
Ontario	Honeoye Lake (0402-0032)	Phosphorus
Orange	Brown Pond Reservoir (1303-0013)	Phosphorus
Orange	Lake Washington (1303-0012)	Phosphorus
Orange	Minor Tribs to Middle Wallkill (1306-0061)	Phosphorus
Orange	Monhagen Brook and tribs (1306-0074)	Phosphorus
Orange	Orange Lake (1301-0008) [16]	Phosphorus
Orange	Quaker Creek and tribs (1306-0025)	Phosphorus
Orange	Wallkill River, Middle, Main Stem (1306-0038)	Phosphorus
Orange	Wallkill River, Upper, and Minor tribs (1306-0017)	Phosphorus
Orleans	Glenvwood Lake (0301-0041)	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0070) 9	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0071) 9	Phosphorus
Oswego	Lake Neatahwanta (0701-0018)	Nutrients (phosphorus)
Oswego	Pleasant Lake (0703-0047)	Phosphorus
Putnam	Lost Lake, Putnam Lake (1302-0053)	Phosphorus
Putnam	Minor Tribs to Croton Falls Reservoir (1302-0001)	Phosphorus
Queens	Bergen Basin (1701-0009) 18	Nitrogen
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Nitrogen
Queens	Kissena Lake (1702-0258)	Phosphorus
Queens	Meadow Lake (1702-0030)	Phosphorus
Queens	Shellbank Basin (1701-0001) 18	Nitrogen
Queens	Willow Lake (1702-0031)	Phosphorus
Rensselaer	Nassau Lake (1310-0001)	Phosphorus
Rensselaer	Snyders Lake (1301-0043)	Phosphorus
Richmond	Grassmere Lake/Bradys Pond (1701-0357)	Phosphorus
Rockland	Congers Lake, Swartout Lake (1501-0019)	Phosphorus
Rockland	Rockland Lake (1501-0021)	Phosphorus
Saratoga	Ballston Lake (1101-0036)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Silt/Sediment
Saratoga	Lake Lonely (1101-0034)	Phosphorus
Saratoga	Round Lake (1101-0060)	Phosphorus
Saratoga	Tribs to Lake Lonely (1101-0001)	Phosphorus
Schenectady	Collins Lake (1201-0077)	Phosphorus
Schenectady	Duane Lake (1311-0006)	Phosphorus
Schenectady Lake	Mariaville Lake (1201-0113)	Phosphorus
Schuyler	Cayuta Lake (0603-0005)	Phosphorus

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Seneca	Reeder Creek and tribs (0705-0074)	Phosphorus
St.Lawrence	Black Lake Outlet, Black Lake (0906-0001)	Phosphorus
St.Lawrence	Fish Creek and minor tribs (0906-0026)	Phosphorus
Steuben	Smith Pond (0502-0012)	Phosphorus
Suffolk	Agawam Lake (1701-0117)	Phosphorus
Suffolk	Big/Little Fresh Ponds (1701-0125)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Silt/Sediment
Suffolk	Fresh Pond (1701-0241)	Phosphorus
Suffolk	Great South Bay, East (1701-0039)	Nitrogen
Suffolk	Great South Bay, Middle (1701-0040)	Nitrogen
Suffolk	Great South Bay, West (1701-0173)	Nitrogen
Suffolk	Lake Ronkonkoma (1701-0020)	Phosphorus
Suffolk	Mattituck/Marratooka Pond (1701-0129)	Phosphorus
Suffolk	Mill and Seven Ponds (1701-0113)	Phosphorus
Suffolk	Millers Pond (1702-0013)	Phosphorus
Suffolk	Moriches Bay, East (1701-0305)	Nitrogen
Suffolk	Moriches Bay, West (1701-0038)	Nitrogen
Suffolk	Quantuck Bay (1701-0042)	Nitrogen
Suffolk	Shinnecock Bay and Inlet (1701-0033)	Nitrogen
Suffolk	Tidal Tribs to West Moriches Bay (1701-0312)	Nitrogen
Sullivan	Bodine, Mongomery Lakes (1401-0091)	Phosphorus
Sullivan	Davies Lake (1402-0047)	Phosphorus
Sullivan	Evens Lake (1402-0004)	Phosphorus
Sullivan	Pleasure Lake (1402-0055)	Phosphorus
Sullivan	Swan Lake (1401-0063)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Silt/Sediment
Ulster	Ashokan Reservoir (1307-0004)	Silt/Sediment
Ulster	Esopus Creek, Lower, Main Stem (1307-0010) [17]	Turbidity
Ulster	Esopus Creek, Middle, Main Stem (1307-0003) 17	Turbidity
Ulster	Esopus Creek, Upper, and minor tribs (1307-0007)[3]	Silt/Sediment
Ulster	Wallkill River, Lower, Main Stem (1306-0027)	Phosphorus
Warren	Hague Brook and tribs (1006-0006)	Silt/Sediment
Warren	Huddle/Finkle Brooks and tribs (1006-0003)	Silt/Sediment
Warren	Indian Brook and tribs (1006-0002)	Silt/Sediment
Warren	Lake George (1006-0016) and tribs	Silt/Sediment
Warren	Tribs to Lake George, East Shore (1006-0020)	Silt/Sediment
Warren	Tribs to Lake George, Lk.George Village (1006-0008)	Silt/Sediment

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Washington	Wood Cr/Champlain Canal and tribs (1005-0036)	Phosphorus
Westchester	Lake Katonah (1302-0136)	Phosphorus
Westchester	Lake Lincolndale (1302-0089)	Phosphorus
Westchester	Lake Meahagh (1301-0053)	Phosphorus
Westchester	Lake Mohegan (1301-0149)	Phosphorus
Westchester	Lake Shenorock (1302-0083)	Phosphorus
Westchester	Mamaroneck River, Lower (1702-0071)	Silt/Sediment
Westchester	Mamaroneck River, Upp, & minor tribs (1702-0123)	Silt/Sediment
Westchester	Saw Mill River (1301-0007)	Phosphorus
Westchester	Saw Mill River, Middle, and tribs (1301-0100)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Silt/Sedimnt
Westchester	Silver Lake (1702-0040)	Phosphorus
Westchester	Teatown Lake (1302-0150)	Phosphorus
Westchester	Truesdale Lake (1302-0054)	Phosphorus
Westchester	Wallace Pond (1301-0140)	Phosphorus

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX E – List of NYSDEC Regional Offices

Region	Covering the following counties:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) Permit Administrators	DIVISION OF WATER (DOW) Water (SPDES) Program
1	Nassau and Suffolk	50 Circle Road Stony Brook, NY 11790 Tel. (631) 444-0365	50 Circle Road Stony Brook, NY 11790-3409 Tel. (631) 444-0405
2	Bronx, Kings, New York, Queens and Richmond	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4997	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4933
3	Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester	21 South Putt Corners Road New Paltz, NY 12561-1696 Tel. (845) 256-3059	220 White Plains Road, Suite 110 Tel. (914) 428 - 2505
4	Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2069	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2045
5	Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington	1115 State Route 86, Po Box 296 Ray Brook, NY 12977-0296 Tel. (518) 897-1234	232 Golf Course Road Warrensburg, NY 12885-1172 Tel. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7438	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7165	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7070

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX F – SWPPP Preparer Certification Form

The SWPPP Preparer Certification Form required by this permit begins on the following page.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:

eNOI Submission ID:

Owner/Operator Name:

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SWPPP Preparer First Name | MI | SWPPP Preparer Last Name

Signature | Date

Revised: January 2025

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX G – MS4 SWPPP Acceptance Form

The MS4 SWPPP Acceptance Form required by this permit begins on the following page.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



MS4 SWPPP Acceptance Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

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

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

MS4 SWPPP Acceptance Form - continued

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

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in section II. of this form has been reviewed and meets the substantive requirements in the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP). Note: The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 Operator does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name[1]:

Title/Position:

Signature:

Date:

VI. Additional Information

[1] Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.

(NYSDEC - MS4 SWPPP Acceptance Form - January 2025)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX H – NYCDEP SWPPP Acceptance/Approval Form

The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval form required by this permit begins on the following page.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis
59-17 Junction Blvd., 9th Floor; Flushing, NY 11373

SWPPP Acceptance/Approval

Application Number:

I. Project Owner/Operator Information

1. Owner/Operator Name:
2. Contact Person:
3. Street Address:
4. City/State/Zip:

II. Project Site Information

5. Project/Site Name:
6. Street Address:
7. City/State/Zip:

III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance/Approval

8. SWPPP Reviewed by:
9. Title/Position: /
10. Date Final SWPPP Reviewed and Accepted:
11. Acceptance/Approval Expiration Date:

IV. Regulated MS4 Information for projects that require coverage under the NY State Pollution Discharge Elimination System General Permit for Stormwater Discharges from Construction Activity

12. Name of MS4: *CITY OF NEW YORK*
13. MS4 SPDES Permit Identification Number: *NY-0287890*
14. Contact Person:
15. Street Address: *59-17 Junction Blvd. 9th Floor*
16. City/State/Zip: *Flushing, NY 11373*
17. Telephone Number:

Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis
59-17 Junction Blvd., 9th Floor; Flushing, NY 11373

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

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identifiec in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s).

Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan

Printed Name:

Title/Position:

Signature:

Date:

VI. Conditions of Acceptance/Approval and Additional Information

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.

APPENDIX I – MS4 No Jurisdiction Form

The MS4 No Jurisdiction Form required by this permit begins on the following page.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

MS4 No Jurisdiction Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. eNOI Submission ID:

III. Traditional Land Use Control MS4 Operator Information

a. Name of MS4 Operator:

b. MS4 SPDES Permit ID Number: NYR20A

c. Street Address:

d. City/State/Zip:

e. Telephone Number:

IV. Certification Statement

In accordance with CGP Part I.D.2.b.ii.3., I hereby certify that the Traditional Land Use Control MS4 Operator identified in section III. of this form does not have review authority over the construction project identified in section II. of this form, which is owned/operated by the entity identified in section I. of this form. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.:

b. Title/Position:

c. Signature:

d. Date:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

APPENDIX J – Owner/Operator Certification Form

The Owner/Operator Certification Form required by this permit begins on the following page.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.

Project/Site Name: _____

eNOI Submission ID: _____

eNOI Submitted by: ☐ **Owner/Operator** ☐ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner/Operator First Name MI Owner/Operator Last Name

_____

Signature

_____

Date

Revised: January 2025

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix F

Forms

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

STORM WATER POLLUTION PREVENTION PLAN
CONTRACTOR'S CERTIFICATION STATEMENT

Multi-Family Development

CONTRACTOR'S CERTIFICATION:

"I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP for the construction site identified in such SWPPP as a condition of authorization to discharge storm water. I also understand that the operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System (SPDES) general permit for storm water discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards."

Note: The contractor shall have at least one NYSDEC trained individual onsite at all times when earthwork and other SWPPP associated work is being performed from each contractor(s) and subcontractor(s). Each contractor(s) and subcontractor(s) shall provide copies of these individuals' certifications to the Town of Amherst.

Name: _____
(Print)

Signature: _____

Title: _____

Company Name: _____

Address: _____

Telephone Number: _____

Date: _____

Scope of Services: _____

Trained Individual(s) Responsible for Implementation: _____

This form must be signed by a responsible corporate officer or other party meeting the "Signatory Requirements" of the NYSDEC SPDES General Permit

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:	Multi-Family Development
eNOI Submission ID:	
Owner/Operator Name:	The Green Organization

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Christopher		Wood
SWPPP Preparer First Name	MI	SWPPP Preparer Last Name



Signature

8/19/25

Date

Revised: January 2025

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.

Project/Site Name: Multi-Family Development

eNOI Submission ID: _____

eNOI Submitted by: ☐ **Owner/Operator** ☑ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Matt		Green
Owner/Operator First Name	MI	Owner/Operator Last Name

Matthew J. Green

Signature

8/20/25

Date

Revised: January 2025

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix G

NYSDEC Notice of Termination (NOT)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

eNOT Owner or Operator Certification

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Certification Statement

I certify that I have met the requirements of CGP Part V.A.1., 2., 3., and 4. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the Owner or Operator:

b. Title/Position:

c. Signature:

d. Date:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

eNOT Qualified Inspector Certification – SMPs

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Certification Statement

I hereby certify that all the requirements in CGP Part V.A.1.a.iv. or CGP Part V.A.1.b.iv. have been achieved. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the Qualified Inspector:

b. Title/Position:

c. Signature:

d. Date:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

eNOT Qualified Inspector Certification – Final Stabilization

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Certification Statement

I hereby certify that all the requirements in CGP Part V.A.1.a.i., ii., and iii. or CGP Part V.A.1.b.i., ii., and iii. have been achieved. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the Qualified Inspector:

b. Title/Position:

c. Signature:

d. Date:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

NEW YORK STATE | Department of Environmental Conservation

eNOT MS4 Acceptance

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Traditional Land Use Control MS4 Operator Information

a. Name of MS4 Operator:

b. MS4 SPDES Permit ID Number: NYR20A

c. Street Address:

d. City/State/Zip:

e. Telephone Number:

IV. Certification Statement

I have determined that it is acceptable for the owner or operator of the construction project identified above to submit the electronic Notice of Termination in accordance with CGP Part V. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.:

b. Title/Position:

c. Signature:

d. Date:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix H

Construction Documents

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

REVISIONS:		
No.	Description	Date
1	Rev. per Town comments	7/21/23
2	Rev. per Town comments	12/8/23
3	Rev. per Town comments	1/18/24
4	Rev. per Town comments	1/27/25

Multi-Family Project

480 Dodge Road
Amherst, NY

CARMINAWOOD DESIGN
80 Slio City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

DRAWING NAME:
Demolition & Erosion Control Plan

DRAWING NO.
C-001

Project No: 22.296

Date: 3/20/23
Drawn By: JL
Scale: As Noted

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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

INLET PROTECTION DETAIL 1

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE AREA.
3. WEED HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEDIMENT SHALL BE REMOVED AND DISPOSED OF PROPERLY. COMPACTED PROPERLY AND STABILIZED WITH PERMANENT SEEDING.

INLET PROTECTION DETAIL 2

NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION

CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. GEOMAT MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FILTER FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY SHALL BE OVERLAPPED TO THE NEXT STAKE.
3. STONE MATERIALS SHALL BE ASTM #2 OR 3 OR 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET MAY BE SUBSTITUTED FOR WOOD.
4. DRIVE STAKES FIRMLY AROUND AT 3 FEET APART AND 1 FOOT MINIMUM INTO UNDISTURBED GROUND (SHALLOWER THAN 3 FEET MAY BE USED ON THE SIDE OF THE INLET OPPOSITE THE FLOW DIRECTION OR WHERE STONE WOULD PREVENT THE STAKES FROM BEING DRIVEN TO THE REQUIRED DEPTH). FILTER FABRIC SHALL BE FASTENED SECURELY TO THE STAKES AND SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
5. FRAME SHALL BE CONSTRUCTED OF 2"x4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET MAY BE SUBSTITUTED FOR WOOD. SPACE STAKES EVENLY AROUND THE INLET AT NO MORE THAN 3 FEET APART AND DRIVE SECURELY INTO THE GROUND (APPROXIMATELY 1 FOOT OR DEEPER, BUT NOT SO DEEP AS TO UNDERCUT THE FABRIC). ATTACH THE FRAME TO THE STAKES AT THE TOP OF THE FABRIC FOR SUPPORT.
6. A 2"x 4" WOOD FRAME SHALL BE CONSTRUCTED AROUND THE CREST OF THE INLET FOR OVER FLOW STABILITY. MAXIMUM DRAINAGE AREA: 1 ACRE

INLET PROTECTION DETAIL 3

NOT TO SCALE

CONCRETE BELOW
STONE & BLOCK PLAN VIEW
2:1 SLOPE OR MORE
STONE & BLOCK SECTION
STONE
CONCRETE BLOCK
2'MIN.
1'MIN.
2'MIN.
2:1 SLOPE

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Site Plan
SCALE: 1"=30'

LOCKPORT EXPRESSWAY

DODGE (66.0' WIDE) ROAD

ROBIN RIDGE ROAD

Site Data

ZONED: NCH-MS	
BUILDING: PROPOSED (2) 3 STORY APARTMENT BUILDINGS W/ TOWNHOUSE & DETACHED GARAGES	
SETBACKS: REQUIRED	PROVIDED
FRONT	15.0'(M)
SIDE	N/A
REAR	21.2'
SIDE (ACCESSORY)	1.25'-0"
REAR	10.0'(M)
REAR (ACCESSORY)	11.82'(M)
DENSITY: ZONING	
FRONT	61.4'(M)
SIDE	14.46'(M)
REAR	18.38'(M)
PARKING: REQUIRED	
2 BEDROOMS	2/U
3 BEDROOMS	2/U
PARKING: PROVIDED	
2 BEDROOMS	2/U
3 BEDROOMS	2/U
LANDSCAPING	
LANDSCAPING: REQUIRED (10% MIN.)	0.28 AC (12,242 SF)
LANDSCAPING: PROVIDED	0.24 AC (10,452 SF)
PARKING CALCULATIONS:	
REQUIRED PARKED PER ZONING CODE	2/U TOTAL
136 SPACES PROVIDED	2/U TOTAL

GENERAL NOTES

1. ALL MATERIALS TO MANUFACTURERS RECOMMENDATIONS AND BEST STANDARDS OF TRADE PRACTICE.
2. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNERS APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
3. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
4. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF ANY DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS BEFORE PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING STRUCTURES, TO REMAIN AND ANY OTHER IMPROVEMENTS, INCLUDING UTILITIES, WHICH MAY BE DAMAGED DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND HAVE FINAL CLEANUP TO SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASSUME THE RESPONSIBILITY TO CONSTRUCT ALL SITE IMPROVEMENTS SHOWN ON THESE DRAWINGS IN A WORKMANLIKE MANNER. COORDINATE ALL WORK WITH THE APPROPRIATE UTILITY COMPANIES.
8. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.

STREET & SITE SIGNS:		
SIGN#	STREET SIGN	ROBIN RIDGE RD & DODGE RD
SIGN#	STOP SIGN	
SIGN#	SPEED LIMIT 45MPH	
SIGN#	SPEED LIMIT 40 MPH	
SIGN#	P/L/N SIGN	ARBORDALE NURSERIES LANDSCAPING

REVISIONS:		
No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. per neighbor comments	6/21/23
3	Rev. per Town comments	7/21/23
4	Rev. per Town comments	9/12/23
5	Rev. per Town comments	9/14/23
6	Rev. per Town comments	12/8/23
7	Rev. per ECDPW comments	1/12/24
8	Rev. per ECDPW comments	1/18/24
9	Clubhouse removed, townhouse added	8/22/25

Multi-Family Project

480 Dodge Road
Amherst, NY

CARMINA WOOD DESIGN
80 Silo City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

DRAWING NAME: Site Plan

DRAWING NO. C-100

Project No: 22.296

Date: 3/20/23
Scale: 1"=30'
Drawn By: CW
As Noted

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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TYPE 'A' CONCRETE CURB - 1

NOT TO SCALE

ABUTTING SIDEWALK

ABUTTING LANDSCAPE GRASS

90° PARKING STALL LAYOUT - 2

NOT TO SCALE

HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 5

NOT TO SCALE

INTERNATIONAL HANDICAP SYMBOL - 5A

NOT TO SCALE

HANDICAPPED PARKING SIGN - 6

NOT TO SCALE

PAINTED TRAFFIC ARROWS - 14

NOT TO SCALE

6' BOARD ON BOARD FENCE FOR DUMPSTER ENCLOSURE

NOT TO SCALE

CROSSWALK STRIPING - 11

NOT TO SCALE

SIDEWALK CURB RAMP - 9

NOT TO SCALE

STANDARD DUTY ASPHALT SECTION - 4

NOT TO SCALE

HANDICAPPED PAVEMENT RAMP - 10

NOT TO SCALE

CONCRETE SIDEWALK - 3

NOT TO SCALE

EXTERIOR CONCRETE SLAB-ON-GRADE SECTION - 7

NOT TO SCALE

ALUMINUM FENCE DETAIL - 13

NOT TO SCALE

STOP SIGN - 16

NOT TO SCALE

STOP BAR DETAIL - 15

NOT TO SCALE

DUMPSTER ENCLOSURE - 12

NOT TO SCALE

REVISIONS:		
No.	Description	Date
1	Rev. per Town comments	9/23/23

Multi-Family Project

480 Dodge Road
Amherst, NY

CARMINAWOOD DESIGN
80 Silo City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

DRAWING NAME:
Site Details

DRAWING NO.
C-101

Project No:
22.296

Date: 3/20/23
Drawn By: JS
Scale: As Noted

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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

DRAWING NAME:
Site Details

DRAWING NO.
C-102

Project No: 22.296

Date: 3/20/23
Drawn By: JS
Checked By: PS
Scale: As Noted

REVISIONS:

No.	Description	Date
1	Rev. per ECDPW comments	1/12/24

Multi-Family Project
480 Dodge Road
Amherst, NY

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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

REVISIONS:		
No.	Description	Date
1	Rev. per Town comments	9/23/23
2	Rev. per Town & ECDPW comments	7/21/23
3	Rev. per Town comments	8/10/23
4	Rev. per Town comments	12/8/23
5	Rev. per Town comments	1/27/25
6	Clubhouse removed, townhouse added	8/22/25

Multi-Family Project

480 Dodge Road
Amherst, NY

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60 Slio City Row, Suite 100
Buffalo, New York 14203
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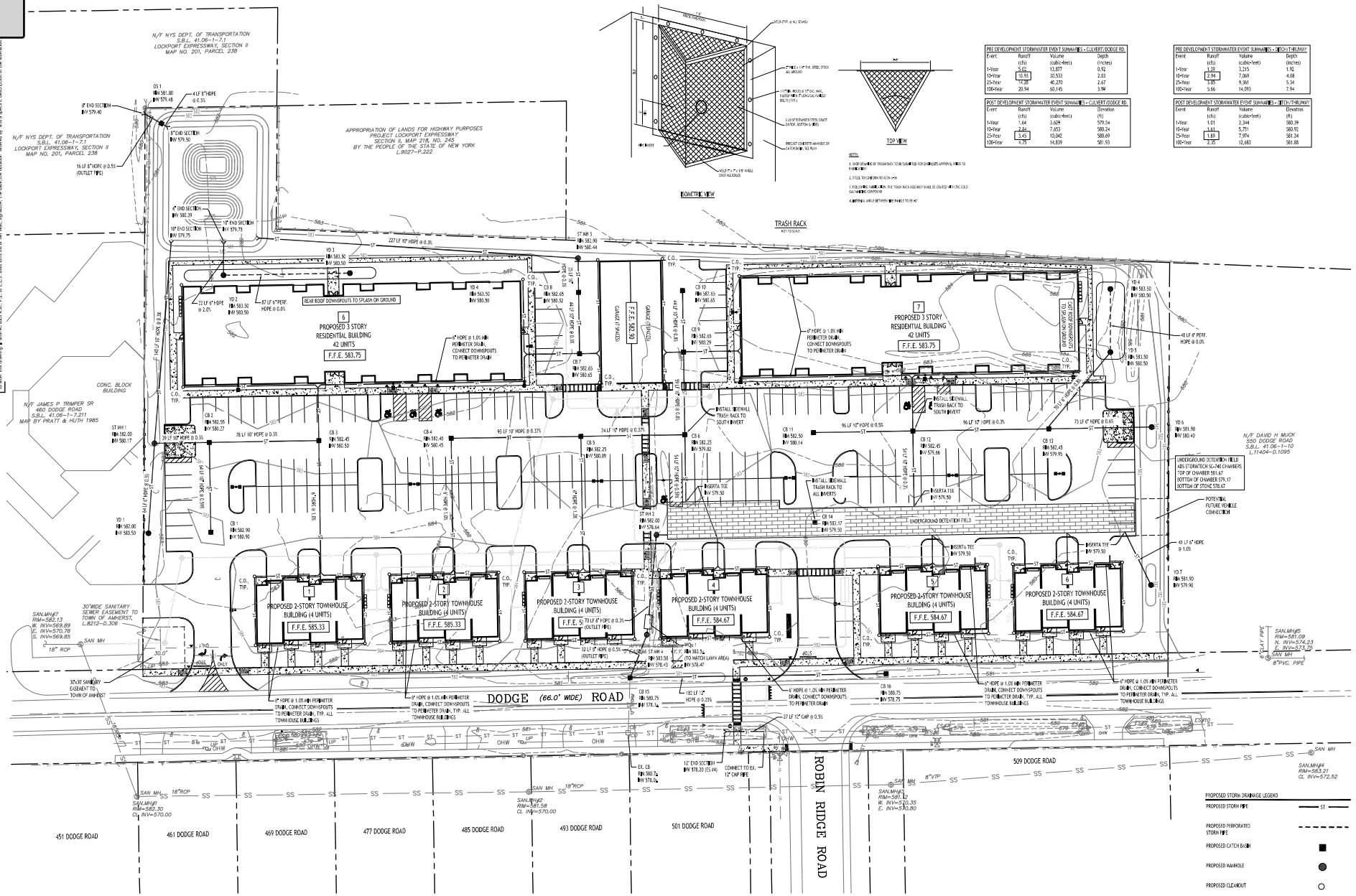
DRAWING NAME: Grading Plan

DRAWING NO. C-200

Project No: 22.296

Date: 3/20/23
Drawn By: Author
Scale: As Noted

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



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CARMINA WOOD DESIGN
80 Nth City Row, Suite 100
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Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	9/23/23
2	Rev. per Town & ECDPW comments	11/21/23
3	Rev. per Town comments	12/8/23
4	Rev. per Town comments	1/27/25
5	Rev. per Town comments	4/25/25
6	Cultivar/house removed; townhouse outlook	8/22/25

DRAWING NAME:
Storm Drainage Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
C-300

Project No: 22.296

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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

STORM SEWER TRENCH SECTION IN PAVED AREAS
NOT TO SCALE

STORM SEWER TRENCH SECTION IN UNPAVED AREAS
NOT TO SCALE

TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP
NOT TO SCALE

TYPICAL STORM MANHOLE DETAIL
NOT TO SCALE

TYPICAL PRECAST CATCH BASIN
NOT TO SCALE

TYPICAL YARD DRAIN DETAIL
NOTE: SEE TYPICAL TRENCH SECTION FOR BEDDING REQUIREMENTS
NOT TO SCALE

BIORETENTION AREA - TYPICAL SECTION
NOT TO SCALE

NOTES:
1. CONTRACTOR TO STAKE OUT LOCATION OF BIORETENTION AREA FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. DRAINAGE GRAVEL TO MEET AASHTO M43.
3. CONTRACTOR TO PROVIDE PLANTING SOIL MIXTURE AND SUBMIT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

NOTE: PLANTING SOIL SHALL BE A HOMOGENEOUS MIXTURE OF 30% TO 60% SAND BY VOLUME AND LESS THAN 25% CLAY. SOIL SHOULD FALL WITHIN LIBERTY TYPES BM OR NL WITH PERMEABILITY OF AT LEAST 0.5 IN/HR AS DETERMINED BY ASTM D3385. PLANTING SOIL SHALL BE FREE OF 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 - 7.0
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: 0 TO 25%
SILT: 30 TO 55%
SAND: 30 TO 60%

BIORETENTION AREA SEEDING SPEC: NORTHEAST WETLAND GRASS SEED MIX:

Seed Mixture	Variety	Pounds per No. of Seeds
Deer Resistant Native Grass Mix	Andropogon Gerardii	17.0
Rugosi Bluegrass	Asclepsuas Amaenicatus	4.0
Mixture Percent	Panicum Clandestinum	4.5
Disinfringer	Panicum Clandestinum	4.5

TYPICAL PRECAST CATCH BASIN
NOT TO SCALE

CARMINAWOOD DESIGN
60 Silo City Row, Suite 100
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Phone: (716) 842-3165

Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:		
No.	Description	Date
1	Treatment structure detail added	1/27/25
2	WQv calculation table added	4/25/25

DRAWING NAME:
Storm Drainage Details

Date: 3/20/23
Drawn By: [illegible]
Scale: As Noted

DRAWING NO.
C-301

Project No: 22.296

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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Advanced Drainage Systems, Inc.

SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE CHAMBERS CAN WITHSTAND AN AASHTO LIVE LOAD OF 33 PSI ON THE BURIED DEPTH OF FILL AS SPECIFIED. THE CHAMBERS SHALL BE DESIGNED TO WITHSTAND AN AASHTO LIVE LOAD OF 16 PSI WHEN INSTALLED WITH THE MINIMUM COVER SPECIFIED IN THE TABLE BELOW. THE CHAMBERS SHALL BE DESIGNED FOR A 100 YEAR SERVICE LIFE.
6. FOR STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", THE CHAMBERS SHALL BE DESIGNED FOR A MINIMUM OF 75 YEARS OF CREEP MODIFIED LOADING IN ACCORDANCE WITH ASTM F2418. THE CHAMBERS SHALL BE DESIGNED FOR A MINIMUM OF 1,000 YEARS OF CREEP MODIFIED LOADING WITH A FACTOR OF SAFETY OF 1.5 FOR CYCLIC STRUCTURAL LOADING. THE CHAMBERS SHALL BE DESIGNED TO ALLOW FOR A PERMANENT DEFLECTION OF NO MORE THAN 5% OF THE INSTALLED CHAMBER RISE (DEFLECTION DUE TO LONG TERM CREEP AND CONSOLIDATION OF FOUNDATION AND EMBEDMENT STONE) AND A TEMPORARY DEFLECTION OF NO MORE THAN 7.5% OF THE INSTALLED CHAMBER RISE (DEFLECTION DUE TO LONG TERM CREEP AND CONSOLIDATION OF FOUNDATION AND EMBEDMENT STONE PLUS DEFLECTION DUE TO SHORT TERM LIVE LOADING) WHEN INSTALLED UNDER THE MINIMUM COVER DEPTH AND MAXIMUM COVER DEPTH AS SPECIFIED IN THE TABLE BELOW. THE CHAMBERS SHALL BE DESIGNED TO ALLOW FOR A TEMPORARY INCREASE IN VERTICAL DEFLECTION DUE TO SHORT TERM LIVE LOADING OF UP TO 10% OF THE INSTALLED CHAMBER RISE WHEN INSTALLED UNDER THE MINIMUM COVER DEPTH AND MAXIMUM COVER DEPTH AS SPECIFIED IN THE TABLE BELOW. THE CHAMBERS SHALL BE DESIGNED FOR AASHTO HS-20 TRUCK LOADING.
7. RECESSED COUPLERS OR INTEGRAL BELLS SHALL BE PROVIDED ON THE ENDS OF EACH CHAMBER TO ENSURE PROPER ALIGNMENT OF ADJACENT CHAMBERS DURING INSTALLATION. THE ENDS OF EACH CHAMBER SHALL BE CORRUGATED TO ENSURE A WATERTIGHT CONNECTION BETWEEN ADJACENT CHAMBERS.
   - BOTH THE FIRST AND LAST CORRUGATIONS OF EACH CHAMBER SHALL BE FULL CORRUGATIONS TO ENSURE A WATERTIGHT CONNECTION WITH END CAPS AND MANIFOLDS.
   - THE ENDS OF THE CHAMBERS SHALL NOT REQUIRE ANY FIELD CUTTING TO ENSURE PROPER CONNECTIONS.
   - THE ENDS OF THE CHAMBERS SHALL NOT REQUIRE ANY CORRUGATIONS TO BE FIELD CUT TO ENSURE PROPER CONNECTIONS.
8. CHAMBERS SHALL BE MANUFACTURED IN THE USA AND SHALL NOT BE IMPORTED FROM OUTSIDE THE USA.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT A FACILITY ISO 9001 CERTIFIED FOR THE MANUFACTURE OF POLYPROPYLENE CHAMBERS AND END CAPS.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. CHAMBERS SHALL BE INSPECTED PRIOR TO INSTALLATION. ANY CHAMBERS OR END CAPS THAT ARE DAMAGED OR DO NOT MEET CONSTRUCTION REQUIREMENTS SHALL NOT BE INSTALLED.
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS.
   - STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A WIDE TRACK DOZER.
   - BACKFILL AS SHOWN IN THE STORMTECH INSTALLATION INSTRUCTIONS.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM 9" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. ADDITIONAL STONE MAY BE REQUIRED ANY CHAMBERS MUST BE ALIGNED, GRUNGED, ANGULAR STONE SHALL BE USED TO PREVENT SIDEWALL COMPACTION DURING STONE PLACEMENT. THE CONTRACTOR MUST REPORT ANY DEFORMATIONS OR MOVEMENT OF CHAMBERS MUST BE ALIGNED, GRUNGED, ANGULAR STONE SHALL BE USED TO PREVENT SIDEWALL COMPACTION DURING STONE PLACEMENT. THE CONTRACTOR MUST REPORT ANY DEFORMATIONS OR MOVEMENT OF CHAMBERS DURING STONE PLACEMENT. EXCEEDING MAXIMUM ALLOWABLE DEFLECTIONS AS NOTED IN THE TABLE BELOW MUST BE REPORTED IMMEDIATELY. MATERIALS AND METHODS NEEDED TO CORRECT EXCESSIVE DEFLECTIONS MUST BE REVIEWED WITH THE STORMTECH ENGINEERING DEPARTMENT.
8. ADS RECOMMENDS THE USE OF FILTERFABRIC OVER ALL STONE PRIOR TO PLACEMENT OF BACKFILL MATERIALS TO PROTECT THE CHAMBERS FROM BACKFILL MATERIALS MIGRATING INTO THE STONE FOUNDATION AND STONE STORAGE AREAS.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE STORMTECH SCI-310/SC-740/DC-780 CHAMBER INSTALLATION INSTRUCTIONS.
2. ALL EXCAVATION SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS.
   - NO PERSONNEL SHALL ENTER UNSHORED EXCAVATIONS.
   - ALL EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
   - PROPER SHORING AND TRENCH BOXES SHALL BE USED WHEN NECESSARY.
3. FULL 36" (900 mm) OF COMPACTED COVER MATERIAL OVER THE CHAMBERS IS REQUIRED FOR SCI-740/DC-780/MC-3500 CHAMBERS. FOR MC-4500 CHAMBERS, REFER TO THE INSTALLATION MANUAL FOR COVER REQUIREMENTS. FOR SCI-740/DC-780/MC-3500 CHAMBERS, IF A DOZER WILL BE USED TO PLACE THE MATERIAL OVER THE CHAMBERS, THE MATERIAL OVER THE CHAMBERS MUST BE AT LEAST 48" (1200 mm) DEEP BEFORE ANY CONSTRUCTION EQUIPMENT CAN BE DRIVEN OVER THE CHAMBERS. FOR SCI-740/DC-780/MC-3500 CONSTRUCTION EQUIPMENT WILL NOT BE ALLOWED ON THE CHAMBERS UNTIL THE MINIMUM COVER REQUIREMENTS ARE MET. SEE THE STORMTECH SCI-310/SC-740/DC-780 CHAMBER INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.
   - USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT RECOMMENDED. IF THIS METHOD IS USED, STORMTECH RECOMMENDS A MINIMUM OF 9" (230 mm) OF STONE BETWEEN THE CHAMBERS AND THE DOZER TRACKS. ANY CHAMBERS DAMAGED BY THE DOZER MUST BE REPLACED. THE USE OF A DOZER TO PUSH STONE BETWEEN THE CHAMBERS IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE DUMP AND PUSH METHOD ARE NOT COVERED UNDER THE STORMTECH WARRANTY.
4. CONTACT STORMTECH AT 1-800-821-6710 FOR DETAILED INSTALLATION INSTRUCTIONS OR VISIT OUR WEBSITE AT WWW.STORMTECH.COM.

1 SC-740 CROSS SECTION DETAIL

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "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 SUBGRADE SOILS MUST BE TESTED IN THE FIELD BY A GEOTECHNICAL ENGINEER TO ENSURE THE SOILS CONFORM TO ASSUMED BEARING CAPACITY OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE EFFECTS OF POTENTIAL GROUNDWATER MOUNDING.
4. PROPERTIES OF STONE MUST BE ESTIMATED PRIOR TO THE EXCAVATION OF SOILS FROM BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - CHAMBERS AND END CAPS MAY BE DAMAGED BY IMPROPER HANDLING. THE CHAMBERS AND END CAPS SHALL NOT BE LIFTED BY THE CHUTES.
   - TO ENSURE A SECURE JOINT CONNECTION BETWEEN CHAMBERS AND END CAPS, THE CHAMBER AND END CAP CORRUGATIONS MUST BE ALIGNED PRIOR TO PUSHING THE END CAP ONTO THE CHAMBER.
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, LIFT THE HIGH SIDE OF THE CHAMBER AT LEAST EVERY 3 CHAMBERS DURING STONE PLACEMENT. SEE THE STORMTECH INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.
   - ANY CHAMBERS THAT ARE IMPROPERLY INSTALLED OR DAMAGED SHALL BE REMOVED AND REPLACED.
6. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

2 SC-740 TECHNICAL SPECIFICATIONS

PART #	STUB	A	B	C
SCHDEP6T	6" (150 mm)	10.0" (277 mm)	15.5" (393 mm)	5.9" (151 mm)
SCHDEP8T	8" (200 mm)	12.0" (304 mm)	14.4" (366 mm)	5.9" (151 mm)
SCHDEP10T	10" (250 mm)	13.4" (340 mm)	13.3" (338 mm)	5.9" (151 mm)
SCHDEP12T	12" (300 mm)	14.2" (373 mm)	12.5" (318 mm)	5.9" (151 mm)
SCHDEP15T	15" (375 mm)	15.4" (391 mm)	11.2" (284 mm)	5.9" (151 mm)
SCHDEP18T	18" (450 mm)	16.2" (411 mm)	10.4" (264 mm)	5.9" (151 mm)
SCHDEP24T	24" (600 mm)	16.2" (411 mm)	10.4" (264 mm)	5.9" (151 mm)
SCHDEP6B	6" (150 mm)	10.0" (277 mm)	15.5" (393 mm)	5.9" (151 mm)
SCHDEP8B	8" (200 mm)	12.0" (304 mm)	14.4" (366 mm)	5.9" (151 mm)
SCHDEP10B	10" (250 mm)	13.4" (340 mm)	13.3" (338 mm)	5.9" (151 mm)
SCHDEP12B	12" (300 mm)	14.2" (373 mm)	12.5" (318 mm)	5.9" (151 mm)
SCHDEP15B	15" (375 mm)	15.4" (391 mm)	11.2" (284 mm)	5.9" (151 mm)
SCHDEP18B	18" (450 mm)	16.2" (411 mm)	10.4" (264 mm)	5.9" (151 mm)
SCHDEP24B	24" (600 mm)	16.2" (411 mm)	10.4" (264 mm)	5.9" (151 mm)
SCHDEPEOT	24" (600 mm)	16.2" (411 mm)	—	5.9" (151 mm)

ALL STUBS EXCEPT FOR THE SCTHREEPIECEBOTTOM ARE PRODUCED AT BOTTOM END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB MATCHES THE INSIDE DIAMETER OF THE CHAMBER. THE SCTHREEPIECEBOTTOM IS PRODUCED AT THE BOTTOM OF THE END CAP FOR USE WITH THE SCTHREEPIECETOP AT THE JOBSITE.

PREFABRICATED BOTTOM FOR END CAP WITH INTEGRAL SUMP FOR USE WITH SCTHREEPIECETOP

PREFAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS SCHDEP6B THROUGH SCHDEP24B

PRECORED END CAP FOR PART NUMBERS SCHDEP6T THROUGH SCHDEP24T

*ASSEMBLIES WITH STONE ABOVE AND BETWEEN CHAMBERS

*ASSEMBLIES WITH STONE ABOVE, BELOW AND BETWEEN CHAMBERS

PREFABRICATED BOTTOM FOR END CAP WITH INTEGRAL SUMP FOR USE WITH SCTHREEPIECETOP AT JOBSITE

*FOR THE SCTHREEPIECEBOTTOM/SCTHREEPIECETOP THE 24" (600 mm) STUB IS USED ON THE BOTTOM OF THE END CAP AND THE 24" (610 mm) STUB IS USED ON THE TOP. THE SCTHREEPIECETOP IS CUT TO MATCH THE DESIRED HEIGHT AT THE JOBSITE.

*24" (610 mm) BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE 24" STUB SO THAT THE FITTING SITS FLAT.

NOTE: ALL DIMENSIONS ARE NOMINAL

3 SC-740 ISOLATOR ROW PLUS DETAIL

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)
   i. REMOVE ACCESS COVER OR GRATE
   ii. USING A FLASHLIGHT AND MEASURING ROD OR TAPE, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
   iii. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
   iv. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2). IF NOT, PROCEED TO STEP 3).

B. ALL ISOLATOR PLUS ROWS
   i. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
   ii. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
   iii. 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 JETTING AND VACUUM METHOD
   A. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
   B. STARTING WITH THE DOWNSTREAM MANHOLE, INSERT JETTING NOZZLE FOR FIRST ISOLATOR ROW PLUS
   C. JET FLUSH EACH ISOLATOR ROW PLUS THOROUGHLY FROM THE DOWNSTREAM MANHOLE
   D. VACUUM STRUCTURE SUMP AS REQUIRED
   E. REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 3) REMOVE AND DISPOSE OF CAPTURED DEBRIS (FOR 40"(1 m) DIA MANHOLE SHOULD BE 4 TIMES PER YEAR)
   A. DISPOSE OF DEBRIS AT AN APPROVED SITE

STEP 4) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 5) INSPECT AND CLEAN INLETS 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 ACCUMULATIONS AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACUUMING WHENEVER INSPECTION SHOWS THAT THE MAINTENANCE IS NECESSARY.

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

REVISIONS:		
No.	Description	Date

Multi-Family Project

480 Dodge Road
Amherst, NY

CARMINAWOOD DESIGN
80 Slio City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

DRAWING NAME:
Storm Drainage Details

Date: 1/20/23
Drawn By: SW
Scale: As Noted
DRAWING NO.
C-302
Project No: 22.296

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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Utility Plan

SCALE: 1"=30'

DRAWING NAME: Utility Plan

DRAWING NO. C-400

Project No: 22.296

Date: 3/20/23
Drawn By: P. Schmidt
Scale: As Noted

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	9/23/23
2	Rev. per Town comments	7/21/23
3	Rev. per Town comments	12/8/23
4	Rev. per Town comments	1/12/24
5	Rev. per Town comments	1/18/24
6	Clubhouse removed, townhouse added	8/22/25

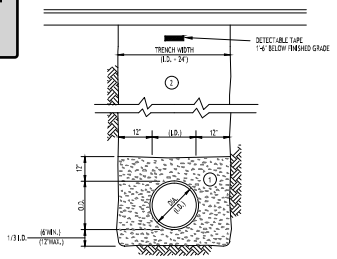
Multi-Family Project

480 Dodge Road
Amherst, NY

CARMINAWOOD DESIGN
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Buffalo, New York 14203
Phone: (716) 842-3165

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NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

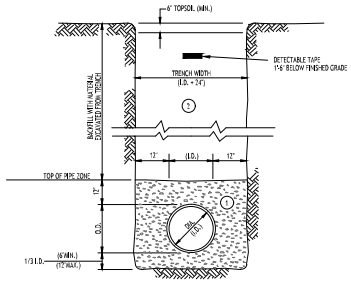
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

2. TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

SEWER/WATERLINE TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

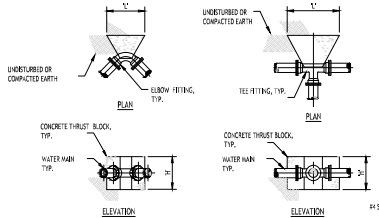
1. NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

2. BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

SEWER/WATERLINE TRENCH SECTION IN UNPAVED AREAS

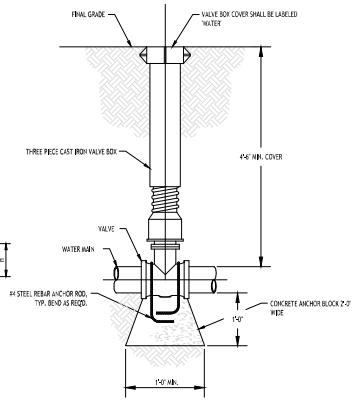
NOT TO SCALE



DIMENSION SCHEDULE								
PIPE SIZE	90° ELBOW		45° ELBOW		22.5° ELBOW		11.25° ELBOW	
	'A'	'L'	'A'	'L'	'A'	'L'	'A'	'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'	2.0'	1.0'	2.5'
12"	3.5'	5.0'	3.0'	3.5'	2.5'	2.5'	1.5'	2.5'

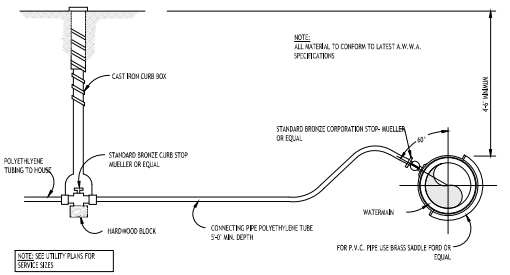
DIMENSION SCHEDULE		
PIPE SIZE	TEE OR TAP SLEEVE	
----	'A'	'L'
4"	1.5'	1.0'
6"	1.5'	2.5'
8"	1.5'	3.5'
10"	2.5'	3.5'
12"	3.5'	3.5'

THRUST BLOCK SCHEDULE



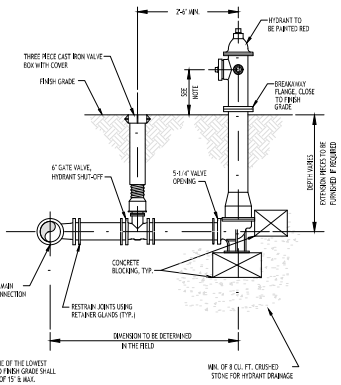
TYPICAL GATE VALVE DETAIL

NOT TO SCALE



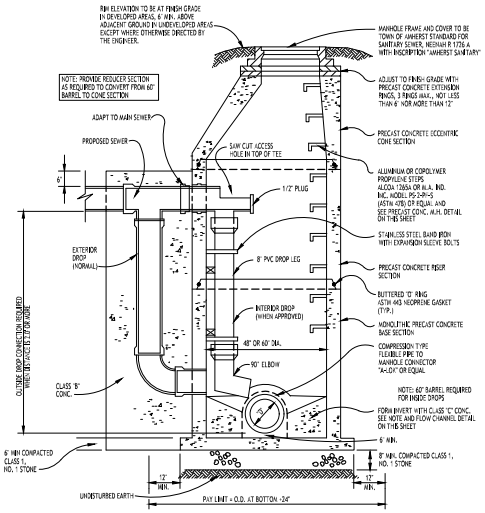
TYPICAL WATER SERVICE LINE INSTALLATION

NOT TO SCALE



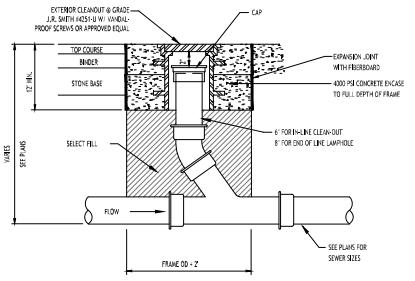
TYPICAL FIRE HYDRANT ASSEMBLY DETAIL

NOT TO SCALE



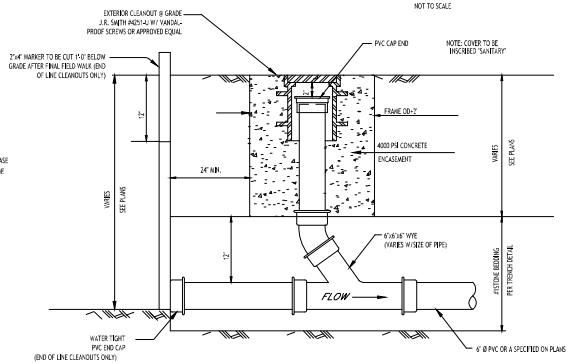
PRECAST CONCRETE DROP CONNECTION

NOT TO SCALE



LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE

CARMINAWOOD DESIGN
50 Jeo City Row, Suite 100
East Aurora, NY 14052
Phone: (716) 842-3165

Packet Pg. 557

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:		
No.	Description	Date
1	Rev. per Town comments	5/23/23

DRAWING NAME:
Utility Details

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.

C-401

Project No: 22.296

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Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

N
Fire Truck Plan
SCALE: 1"=30'

NOTE: ANY ANY AND TOPOGRAPHY INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR IT'S ACCURACY.

30' 0 30' 60'

REVISIONS:		
No.	Description	Date

Multi-Family Project

480 Dodge Road
Amherst, NY

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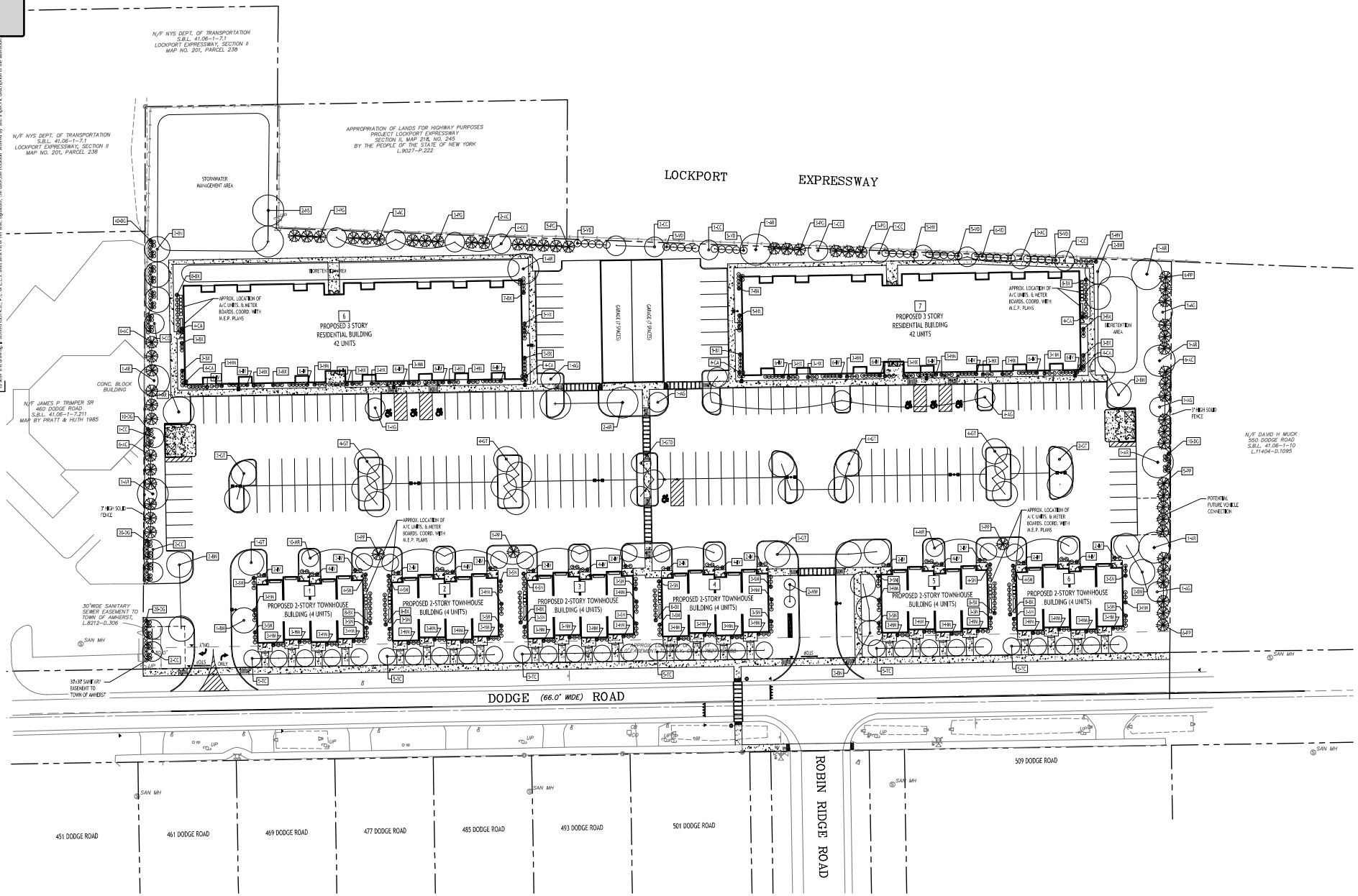
DRAWING NAME: Fire Truck Plan

DRAWING NO. CF-100

Project No: 22.296

Date: 3/20/23
Drawn By: JS
Scale: As Noted

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Landscape Plan

SCALE: 1"=30'

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

30 0 30 60Ft.

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Packet Pg. 559

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. townhouse layout	6/21/23
3	Rev. per Town comments	7/31/23
4	Rev. per Town comments	8/10/23
5	Rev. per Town comments	9/12/23
6	Rev. bollards removed, townhouse outlook	8/22/25

Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
1769 Dodge Road, East Amherst, NY 14051-2133
Phone: 716-364-8954
RCWLandscapeArchitect@gmail.com

DRAWING NAME:
Landscape Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
L-100

Project No: 22.296

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

PLANTING SCHEDULE -480 DODGE ROAD AMHERST, NEW YORK

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
		DECIDUOUS TREES			
AG	10	ACER GINNALA "FLAME"	GREENSTREET MAPLE	2-1/2" CAL. MIN.	B&B
AR	11	ACER RUBRUM "AUTUMN RADIANCE"	AUTUMN RADIANCE RED MAPLE	2-1/2" CAL. MIN.	B&B
BN	15	BETULA NIGRA "DURA HEAT"	HERITAGE BIRCH	8-10' HGT. MIN.	MIN. 3 MAJOR STEMS
CDO	3	GLEDITSIA TRIACANTHOS INERMIS "SHADEMASTER"	STREET KEEPER HONEYLOCUST	2-1/2" CAL. MIN.	B&B
GT	24	GLEDITSIA TRIACANTHOS INERMIS "SKYCOLE"	SKYLINE THORNLESS HONEYLOCUST	2"-1/2" CAL. MIN.	B&B
NS	2	NYSSA SYLVATICA "WILDFIRE"	WILDFIRE BLACK GUM	2"-1/2" CAL. MIN.	B&B
TC	30	TILIA "CORDATA "GLENLEA"	GLENLEAN LITTLELEAF LINDEN	2-1/2" - 3" CAL.	B&B
		SMALL/ORNAMENTAL TREES			
AC	3	AMELANCHIER CANADENSIS	SERVICEBERRY	8' HT. MIN.	MIN. 3 MAJOR STEMS
CC	16	CRATAEGUS CRUSGALLI INERMIS "CRUSMOR"	CRUSADER HAWTHORN	1-3/4" - 2" CAL.	B&B
MR	14	MALUS "ROYAL RAINDROPS"	ROYAL RAINDROPS CRABAPPLE	1-3/4" - 2" CAL.	B&B OR CONT.
MW	2	MAGNOLIA STELLATA "WATERLILLY"	WATERLILLY STAR MAGNOLIA	1-3/4" - 2" CAL.	B&B OR CONT.
		EVERGREEN TREES			
AC	17	ABIES CONCOLOR**	CONCOLOR FIR	5' - 6' HT.	B&B FULL TO GROUND
PG	16	PICEA GLAUCA**	WHITE SPRUCE	5'-6' HT.	B&B FULL TO GROUND
PP	27	PICEA PUNGENS GLAUCA**	COLORADO BLUE SPRUCE	5'-6' HT.	B&B FULL TO GROUND
		SHRUBS			
BX	92	BUXUS "GREEN MOUNTAIN"	GREEN MOUNTAIN BOXWOOD	24" HT.	NO. 3 CONT.
DG	100	DIERVILLA "ZZ2488644"	KODIAK ORANGE DIERVILLA	24" HT.	NO. 5 CONT.
HV	10	HAMAMELIS VERNALIS	VERNAL WITCHHAZEL	24" HT.	NO. 5 CONT.
HM	108	HYDRANGEA MACROPHYLLA "SMHMES14"	LETS DANCE RHYMIC BLUE HYDRANGEA	24" HT.	NO. 5 CONT.
HX	46	HYPERICUM X "DEPPE"	SUNN BOULEVARD HYPERICUM	24" HT.	NO. 3 CONT.
IV	132	ITEA VIRGINICA "SMNHDTC"	SCENTLANDIA SWEETSPIRE	24" HT.	NO. 3 CONT.
SN	73	SPIRAEA "NCSX24"	DOUBLE PLAY DOOZIE SPIREA	24" HT.	NO. 1 CONT.
VD	31	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24" HT.	NO. 5 CONT.
		ORNAMENTAL GRASS			
CA	24	CALAMAGROSTIS X ACUTIFLIA 'KARL FOERSTER'**	KARL FOERSTER FEATHER REED GRASS	NO. 3 CONT.	

NOTES:
T.B.D. PLANTING BEDS & TREES SHALL RECEIVE A MIN. 3 INCH DEPTH OF BARK SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE CALLED OUT ON PLANS.

*NEW ASHFORD HEIGHTS AND LIVE TO BE TEN FEET TALL OR MORE AT MATURITY.
**ORNAMENTAL GRASSES SHOULD BE PRUNED BACK IN LATE FALL OR EARLY SPRING TO ALLOW NEW FOLIAGE TO GROW IN SPRING

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SHRUB PLANTING DETAIL
NOT TO SCALE

TOWN OF AMHERST TREE PLANTING DETAIL
NOT TO SCALE

Robert C. Walter, RLA
CARMINAWOOD DESIGN
LANDSCAPE ARCHITECTURE
2370 Eggert Road, East Aurora, NY 14052-9410
Phone: (716) 655-0436
Rob.Walter@CarminaWood.com

DRAWING NAME:
Landscape Notes & Details

DRAWING NO.
L-101

Project No: 22.296

Date: 3/20/23
Drawn By: RCW
Scale: As Noted

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. townhouse layout	6/21/23
3	Rev. per Town comments	7/21/23
4	Rev. per Town comments	8/10/23
5	Rev. per Town comments	9/12/23
6	Clubhouse removed, townhouse added	8/22/25

Multi-Family Project

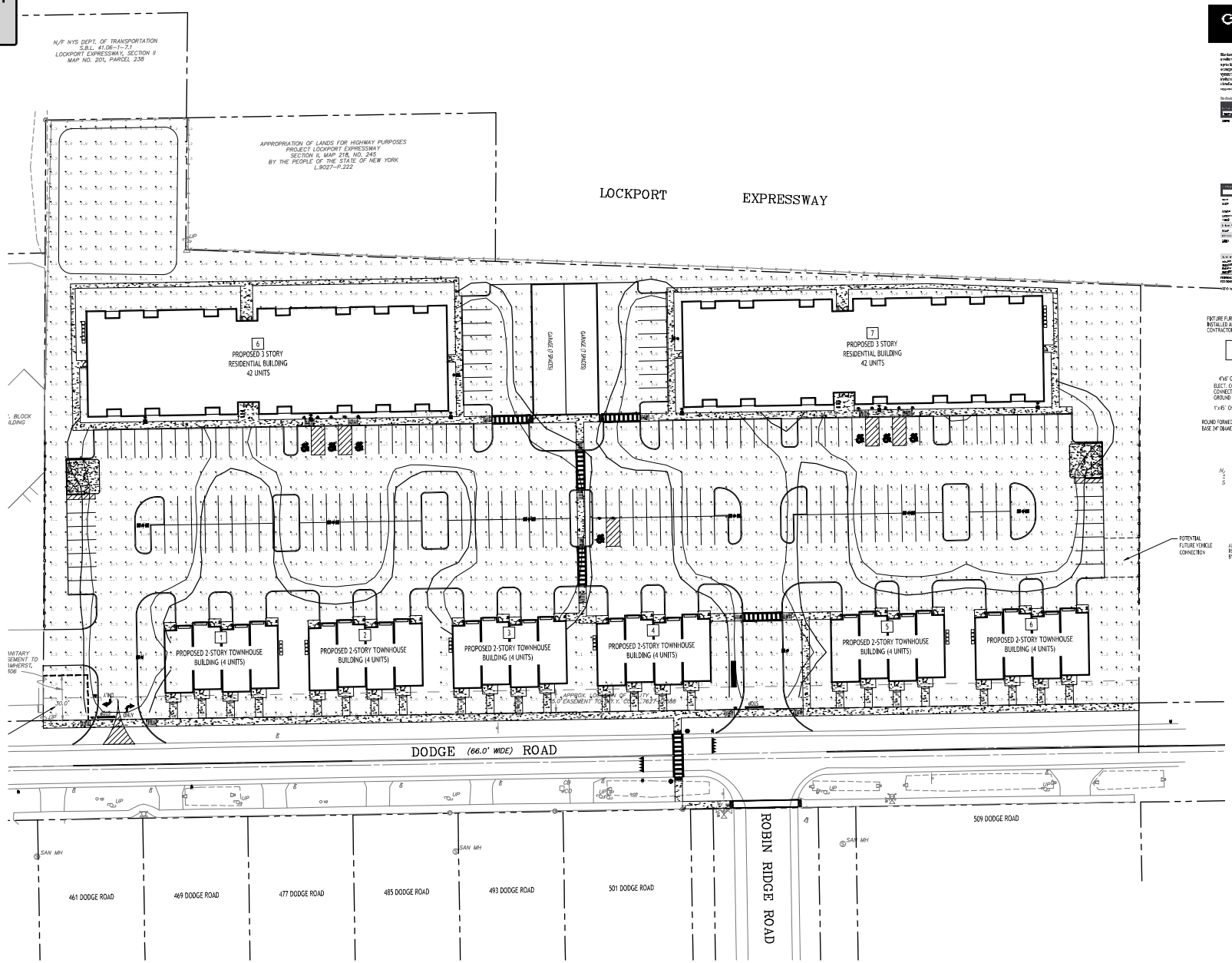
480 Dodge Road
Amherst, NY

CARMINAWOOD DESIGN
80 Slio City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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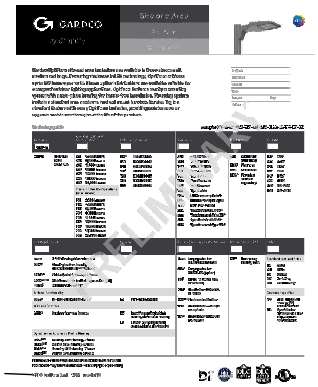


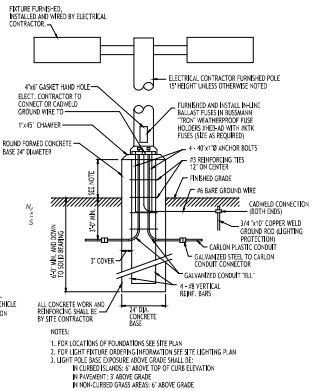
Lighting Plan
SCALE: 1"=30'

Luminaire Schedule			
Symbol	Qty	Label	Description
	23	S1	Gardco OPF-S-A04-830-T3M

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min
Surface	Illuminance	Fc	1.41	12.3	0.0

NOTE: PHOTOMETRICS PREPARED BY LIGHTSPEC, LLC. CONTACT DAVID SURIANI FOR PRICING (716) 883-0157





LIGHT POLE FOUNDATION - 8
NOT TO SCALE

NOTE:
1. ALL SITE LIGHTING TO BE DARK SKY COMPLIANT AND FIXED AT 90 DEGREES. LIGHT POLES TO BE MOUNTED AT 15 FT.

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

30 0 30 60Ft.

CARMINA WOOD DESIGN
80 Allen City Row, Suite 100
Buffalo, New York 14202
Phone: (716) 842-3165

Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:		
No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. per updated layout	7/21/23
3	Clubhouse removed, townhouse added	8/22/25

DRAWING NAME:
Lighting Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
LP-100

Project No: 22.296

Appendix I

Soils Information

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Hydrologic Soil Group—Erie County, New York

Map Scale: 1:1,310 if printed on A landscape (11" x 8.5") sheet.

N

0 15 30 60 90 Meters

0 50 100 200 300 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

USDA Natural Resources Conservation Service

Web Soil Survey
National Cooperative Soil Survey

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 22, Sep 10, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2020—Jul 10, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Cv	Cosad loamy fine sand	C/D	5.9	83.8%
Lb	Lakemont mucky silt loam	C/D	0.4	5.4%
Od	Odessa silt loam, 0 to 3 percent slopes	D	0.8	10.8%
Totals for Area of Interest			**7.0**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Erie County, New York

Cv—Cosad loamy fine sand

Map Unit Setting

National map unit symbol: 9rl8
Elevation: 200 to 800 feet
Mean annual precipitation: 36 to 48 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 115 to 195 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Cosad and similar soils: 75 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cosad

Setting

Landform: Lake plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Sandy glaciofluvial or deltaic deposits over clayey glaciolacustrine deposits

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 21 inches: loamy fine sand
H3 - 21 to 24 inches: fine sandy loam
H4 - 24 to 60 inches: silty clay

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Ecological site: F101XY006NY - Moist Outwash
Hydric soil rating: No

Minor Components

Odessa
Percent of map unit: 5 percent
Hydric soil rating: No

Claverack
Percent of map unit: 5 percent
Hydric soil rating: No

Cheektowaga
Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Minoa
Percent of map unit: 5 percent
Hydric soil rating: No

Lamson
Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Erie County, New York
Survey Area Data: Version 22, Sep 10, 2022

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Erie County, New York

Lb—Lakemont mucky silt loam

Map Unit Setting

National map unit symbol: 9rmq
Elevation: 570 to 1,160 feet
Mean annual precipitation: 36 to 48 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 115 to 195 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Lakemont and similar soils: 75 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lakemont

Setting

Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Reddish clayey and silty glaciolacustrine deposits

Typical profile

H1 - 0 to 9 inches: mucky silt loam
H2 - 9 to 29 inches: silty clay
H3 - 29 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.02 to 0.20 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: None
Frequency of ponding: Occasional
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: C/D
Ecological site: F101XY010NY - Wet Lake Plain Depression
Hydric soil rating: Yes

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Minor Components

Canadice
Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Canandaigua
Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Cheektowaga
Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Wayland
Percent of map unit: 5 percent
Landform: Flood plains
Hydric soil rating: Yes

Palms
Percent of map unit: 5 percent
Landform: Swamps, marshes
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Erie County, New York
Survey Area Data: Version 22, Sep 10, 2022

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Erie County, New York

Od—Odessa silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2wrd8
Elevation: 260 to 1,540 feet
Mean annual precipitation: 31 to 57 inches
Mean annual air temperature: 41 to 50 degrees F
Frost-free period: 100 to 190 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Odessa and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Odessa

Setting

Landform: Lake terraces
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Red clayey glaciolacustrine deposits derived from calcareous shale

Typical profile

Ap - 0 to 8 inches: silt loam
Bt/E - 8 to 10 inches: silty clay loam
Bt1 - 10 to 15 inches: silty clay
Bt2 - 15 to 25 inches: silty clay
C - 25 to 79 inches: silty clay

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Available water supply, 0 to 60 inches: High (about 9.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Hydrologic Soil Group: D
Ecological site: F101XY009NY - Moist Lake Plain
Hydric soil rating: No

Minor Components

Lakemont
Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Schoharie
Percent of map unit: 5 percent
Landform: Lake terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Churchville
Percent of map unit: 3 percent
Landform: Drumlinoid ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Rhinebeck
Percent of map unit: 2 percent
Landform: Lake plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Data Source Information

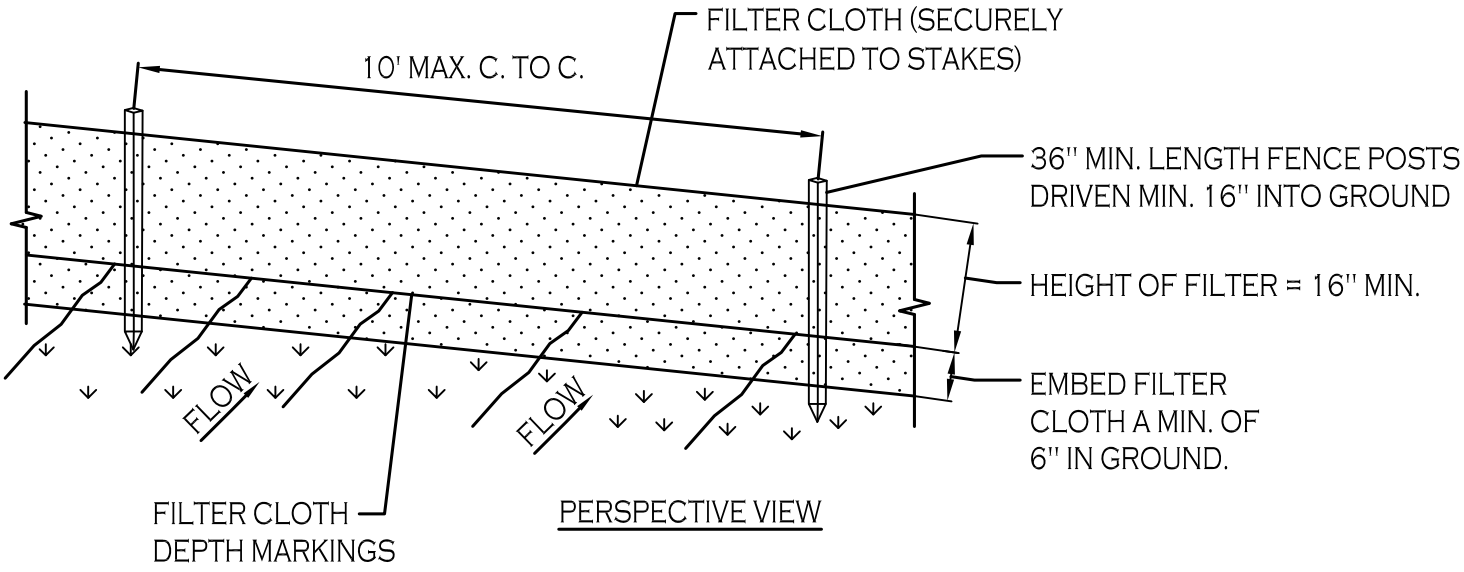
Soil Survey Area: Erie County, New York
Survey Area Data: Version 22, Sep 10, 2022

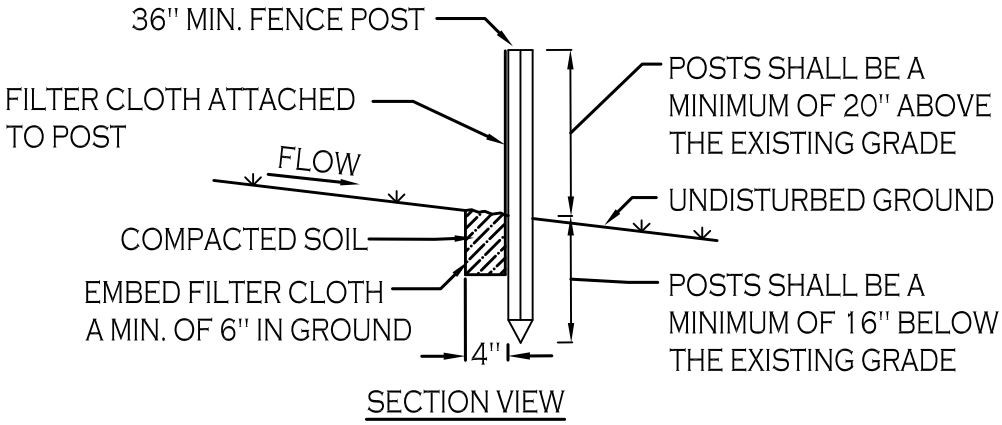
Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix J

Standard Erosion Control Details

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)





CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.

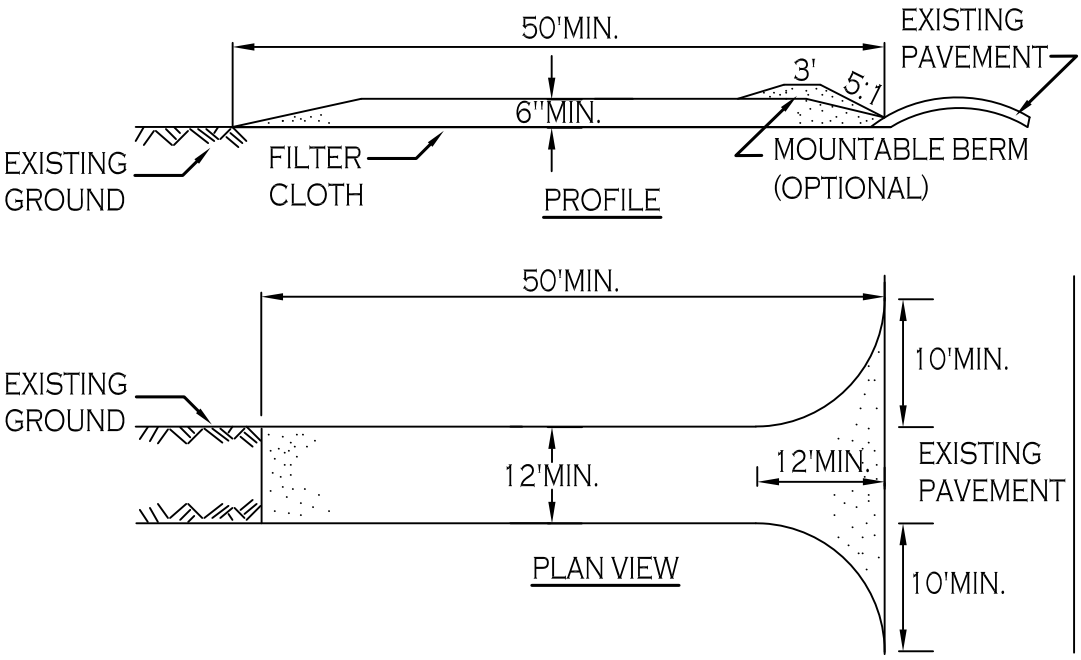
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.

3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).

3. THICKNESS - NOT LESS THAN SIX (6) INCHES.

4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

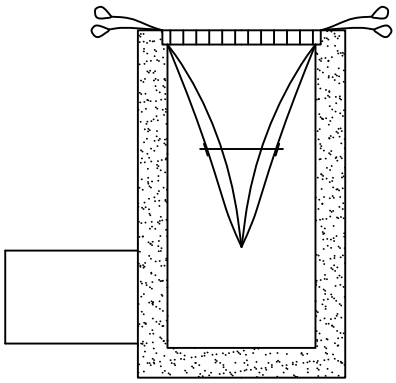
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

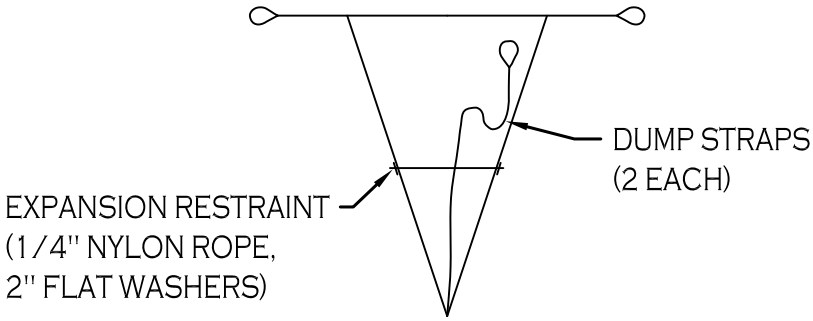
STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

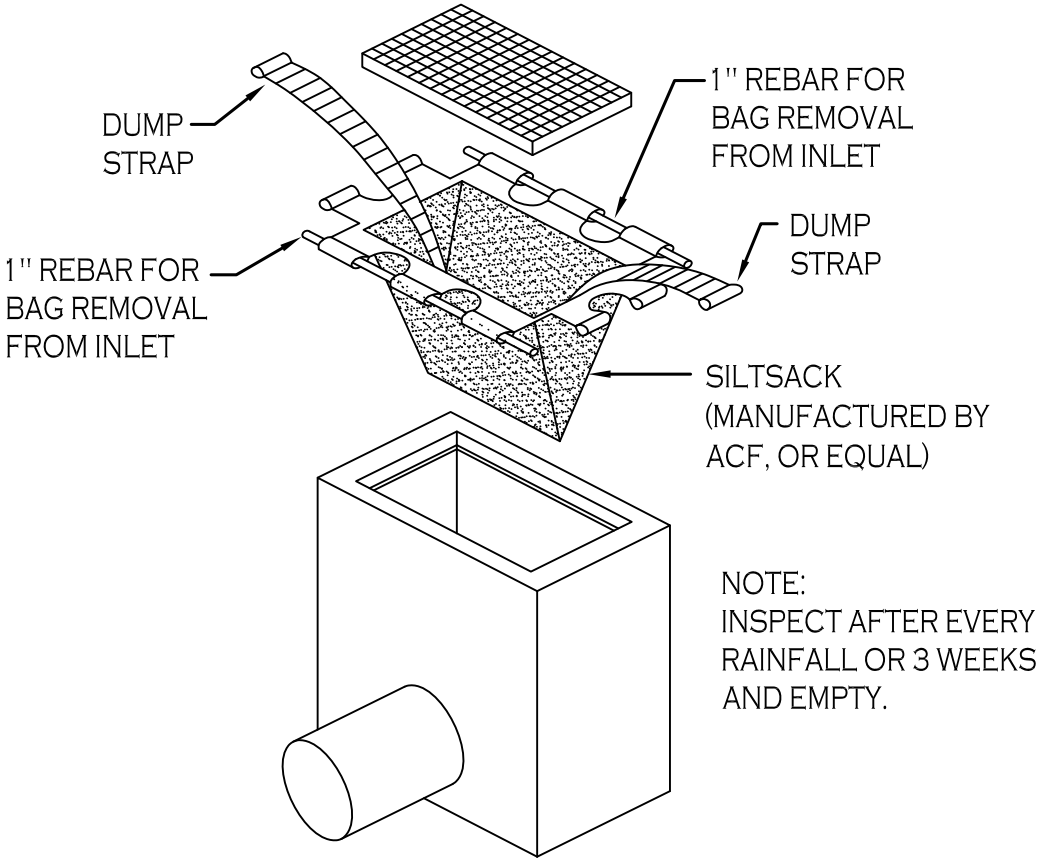
Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



INSTALLATION DETAIL



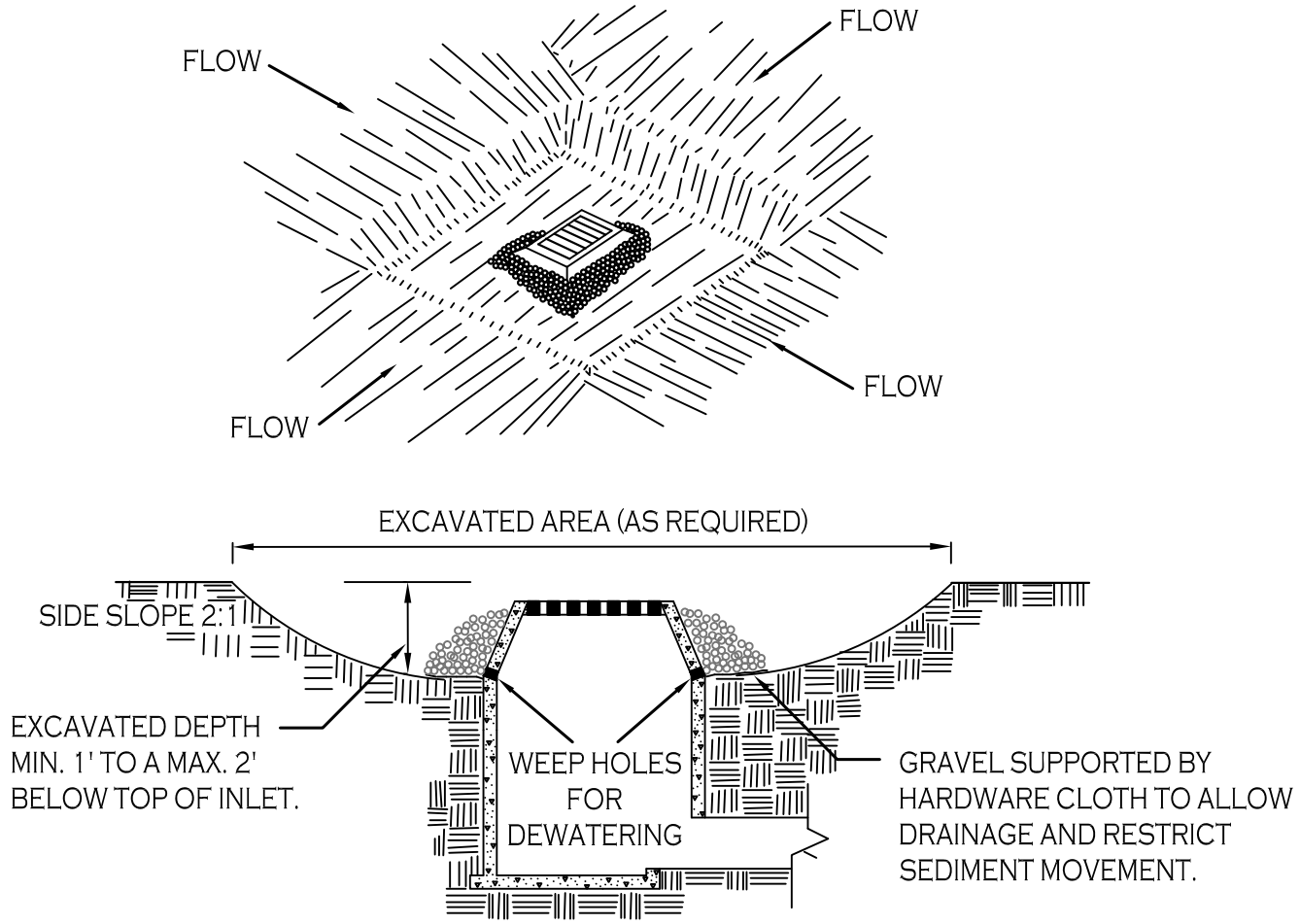
BAG DETAIL



SILT SACK DETAIL

NOT TO SCALE

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



CONSTRUCTION SPECIFICATIONS

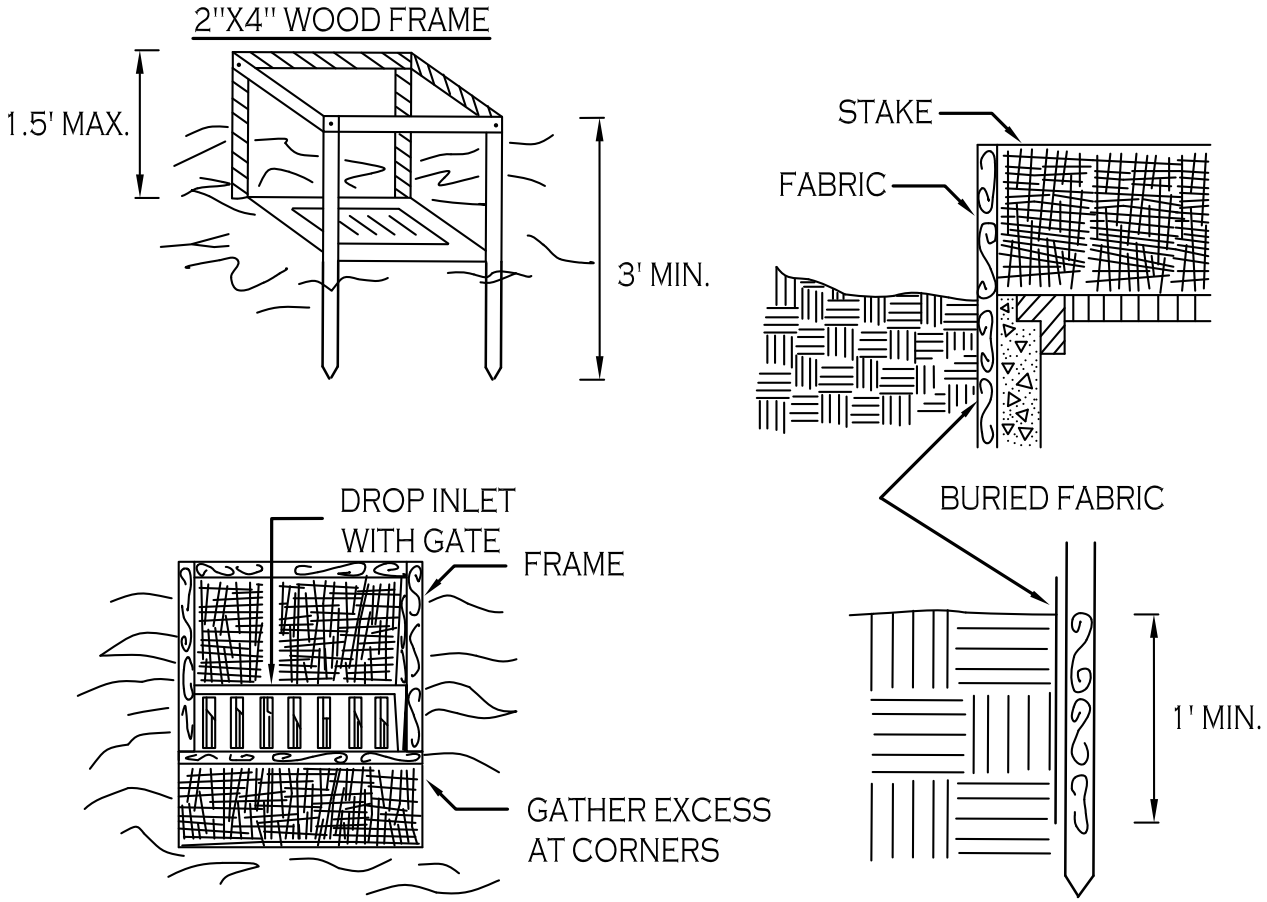
1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.

2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.

3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.

4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.

5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.

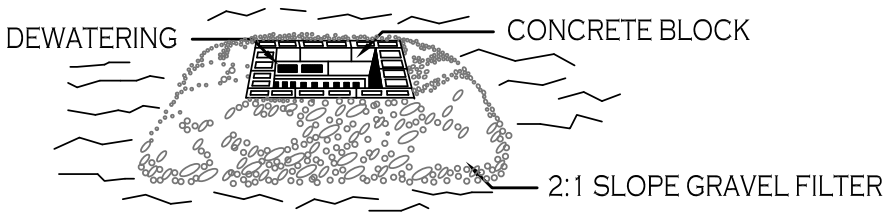
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUN DRAINAGE AREA 1 ACRE

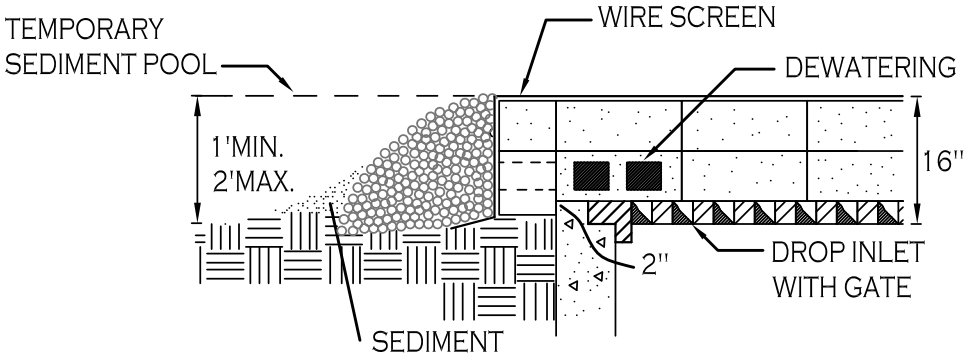
INLET PROTECTION DETAIL 2

NOT TO SCALE

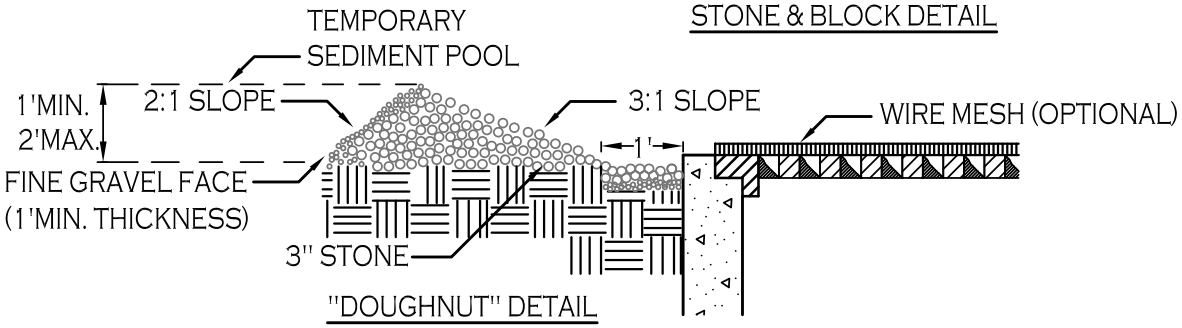
Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL



"DOUGHNUT" DETAIL

CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.

2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.

3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.

4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

NOT TO SCALE

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

EXISTING TREE PROTECTION FENCE

MATERIALS

MATERIALS FOR TEMPORARY PLASTIC BARRIER FENCES SHALL MEET THE FOLLOWING REQUIREMENTS:

- FENCE: HIGH-DENSITY POLYETHYLENE MESH, ULTRAVIOLET-STABILIZED MIN. 2 YEARS; MINIMUM HEIGHT 4.0 FEET. COLOR: HIGH-VISIBILITY ORANGE OR GREEN. WHEN USED TO PROTECT TREES OR OTHER VEGETATION, COLOR SHALL BE HIGH-VISIBILITY ORANGE.
- POSTS: RIGID METAL OR WOOD POSTS, MINIMUM LENGTH 6.0 FEET.
- TIES: STEEL WIRE, #14 GAUGE OR NYLON CABLE TIES.
- WARNING SIGNS: SHEET METAL, PLASTIC OR OTHER RIGID, WATERPROOF MATERIAL, 1.5 FEET BY 2.0 FEET WITH 4 INCH BLACK LETTERS ON A WHITE BACKGROUND. TEXT SHALL BE: "PROTECTED SITE - KEEP OUT" UNLESS OTHERWISE SPECIFIED.

DETAILS

FENCES SHALL BE ERECTED PRIOR TO MOVING CONSTRUCTION EQUIPMENT ONTO ANY AREA DESIGNATED FOR PROTECTION.

THE LINE OF FENCES SHALL BE STAKED OR MARKED OUT ON THE GROUND BY THE CONTRACTOR AND APPROVED BY THE ENGINEER/OWNER BEFORE ANY FENCE IS INSTALLED. WHERE USED FOR PROTECTION OF INDIVIDUAL TREES, FENCE SHALL BE PLACED AT THE DRIP LINE (EXTENT OF CANOPY). IF NOT POSSIBLE, PLACEMENT SHALL BE AS CLOSE TO THE DRIP LINE AS POSSIBLE AND IN NO CASE LESS THAN 5.0 FEET AWAY FROM THE TREE TRUNK.

ON APPROVAL OF THE STAKEOUT, POSTS SHALL BE SECURELY DRIVEN ON 6.0 FOOT-MAXIMUM CENTERS, NORMAL TO THE GROUND, TO A DEPTH 1/3 OF THE TOTAL POST LENGTH. PLASTIC BARRIER FENCE SHALL BE PLACED ALONG THE SIDE OF ALL POSTS. ENDS OF FENCING SEGMENTS SHALL OVERLAP A DISTANCE OF AT LEAST ONE HALF THE FENCE HEIGHT.

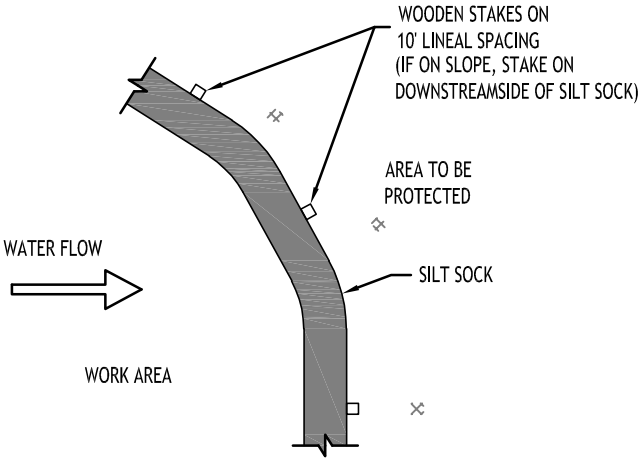
FENCING SHALL BE SECURED TO POSTS WITH WIRE OR CABLE TIES AT TOP, MIDDLE AND BOTTOM OF POST. FASTENER SHALL BE TIGHT ENOUGH TO PREVENT THE FENCING FROM SLIPPING DOWN. OVERLAPS SHALL ALSO BE SECURELY FASTENED.

BARRIER FENCE WHICH IS NOT ORANGE IN COLOR SHALL BE FLAGGED AT 6.0 FOOT INTERVALS WITH RED OR ORANGE FLORESCENT TAPE. WARNING SIGNS SHALL BE MOUNTED ON THE FENCE AT NO MORE THAN 100 FOOT INTERVALS.

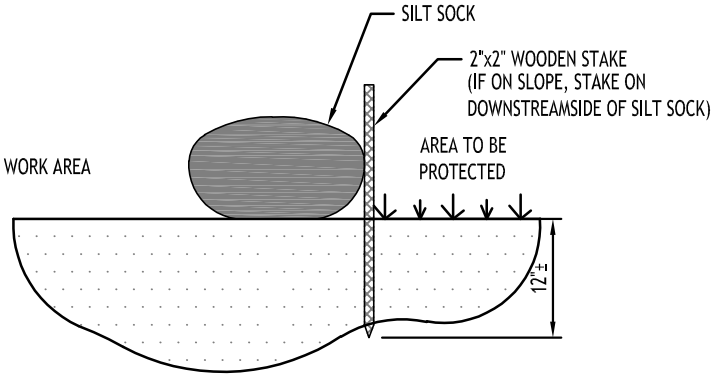
MAINTENANCE SHALL COMMENCE IMMEDIATELY AFTER ERECTION OF THE FENCE AND CONTINUE UNTIL ONE WEEK PRIOR TO ACCEPTANCE OF THE CONTRACT, AND SHALL CONSIST OF: REPLACING DAMAGED POST(S) AND FENCING; RE-FASTENING AND TIGHTENING FENCING; AND RESTORING FENCE TO ITS INTENDED HEIGHT.

FENCING USED FOR TREE OR OTHER VEGETATION PROTECTION SHALL NOT BE TEMPORARILY REMOVED TO ALLOW EQUIPMENT ACCESS OVER A PROTECTED AREA, EXCEPT AS REQUIRED FOR ITEMS OF WORK SPECIFICALLY SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER IN WRITING.

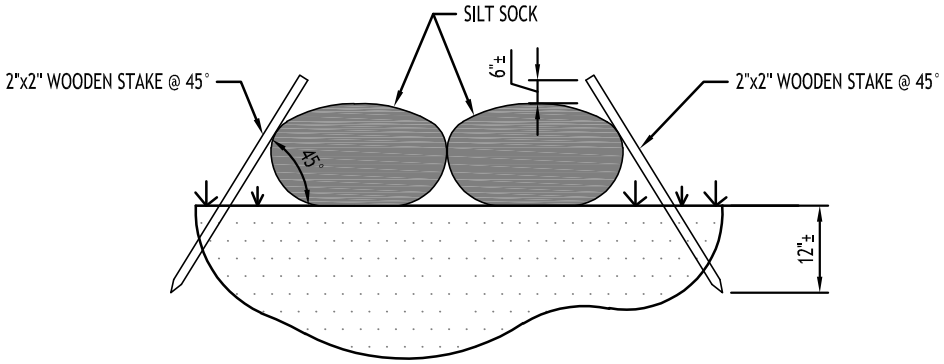
Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



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

NOT TO SCALE

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Appendix K

NYSDEC Stormwater Management Inspection Lists

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Bioretetion Areas (F-5)



Description: Shallow stormwater basin or landscaped area which utilizes engineered soils and vegetation to capture and treat runoff. The practice is often located in parking lot islands, and can also be used to treat residential areas.

KEY CONSIDERATIONS

CONVEYANCE

- Provide overflow for the 10-year storm to the conveyance system.
- Conveyance to the system is typically overland flow delivered to the surface of the system, typically through curb cuts or over a concrete lip.

PRETREATMENT

- Pretreatment consists of a grass channel or grass filter strip, a gravel diaphragm, and a mulch layer, sized based on the methodologies described in Section 6.4.2.

TREATMENT

- Treatment area should have a four foot deep planting soil bed, a surface mulch layer, and a 6" ponding layer.
- Size the treatment area using equations provided in Chapter 6.

LANDSCAPING

- Detailed landscaping plan required.

MAINTENANCE

- Inspect and repair/replace treatment area components
- Stone drop (at least 6") provided at the inlet
- Remulch annually

STORMWATER MANAGEMENT SUITABILITY

- [X] Water Quality
- [ ] Channel Protection
- [ ] Overbank Flood Protection
- [ ] Extreme Flood Protection

Accepts Hotspot Runoff: *Yes*
(requires impermeable liner)

IMPLEMENTATION CONSIDERATIONS

- [M] Capital Cost
- [M] Maintenance Burden

Residential
Subdivision Use: *Yes*

High Density/Ultra-Urban: *Yes*

Drainage Area: *5 acres max.*

Soils: *Planting soils must meet specified criteria; No restrictions on surrounding soils*

Other Considerations:

- *Use of native plants is recommended*

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

	Key: L=Low **M**=Medium **H**=High **POLLUTANT REMOVAL** **G** Phosphorus **G** Nitrogen **G** Metals - Cadmium, Copper, Lead, and Zinc removal **F** Pathogens – Coliform, Streptococci, E.Coli removal **Key**: **G**=Good **F**=Fair **P**=Poor

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Bioretention Construction Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Pre-Construction		
Pre-construction meeting		
Runoff diverted		
Facility area cleared		
If designed as exfilter, soil testing for permeability		
Facility location staked out		
2. Excavation		
Size and location		
Lateral slopes completely level		
If designed as exfilter, ensure that excavation does not compact susoils.		
Longitudinal slopes within design range		

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
3. Structural Components		
Stone diaphragm installed correctly		
Outlets installed correctly		
Underdrain		
Pretreatment devices installed		
Soil bed composition and texture		
4. Vegetation		
Complies with planting specs		
Topsoil adequate in composition and placement		
Adequate erosion control measures in place		
5. Final Inspection		
Dimensions		
Proper stone diaphragm		
Proper outlet		
Soil/ filter bed permeability testing		
Effective stand of vegetation and stabilization		
Construction generated sediments removed		
Contributing watershed stabilized before flow is diverted to the practice		

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Comments:

Actions to be Taken:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Bioretention Operation, Maintenance and Management Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. Debris Cleanout (Monthly)		
Bioretention and contributing areas clean of debris		
No dumping of yard wastes into practice		
Litter (branches, etc.) have been removed		
2. Vegetation (Monthly)		
Plant height not less than design water depth		
Fertilized per specifications		
Plant composition according to approved plans		
No placement of inappropriate plants		
Grass height not greater than 6 inches		
No evidence of erosion		
3. Check Dams/Energy Dissipaters/Sumps (Annual, After Major Storms)		
No evidence of sediment buildup		

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
Sumps should not be more than 50% full of sediment		
No evidence of erosion at downstream toe of drop structure		
4. Dewatering (Monthly)		
Dewaters between storms		
No evidence of standing water		
5. Sediment Deposition (Annual)		
Swale clean of sediments		
Sediments should not be > 20% of swale design depth		
6. Outlet/Overflow Spillway (Annual, After Major Storms)		
Good condition, no need for repair		
No evidence of erosion		
No evidence of any blockages		
7. Integrity of Filter Bed (Annual)		
Filter bed has not been blocked or filled inappropriately		

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Comments:

Actions to be Taken:

Attachment: SP-2023-05_A_application_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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N/F NYS DEPT. OF TRANSPORTATION
S.B.L. 41.06-1-7.1
LOCKPORT EXPRESSWAY, SECTION II
MAP NO. 201, PARCEL 238

APPROPRIATION OF LANDS FOR HIGHWAY PURPOSES
PROJECT LOCKPORT EXPRESSWAY
SECTION II, MAP 218, NO. 245
BY THE PEOPLE OF THE STATE OF NEW YORK
L.9027-P.222

LOCKPORT EXPRESSWAY

PROTECT BIORETENTION AREA WITH SILT SOCK. DO NOT INSTALL BIORETENTION SYSTEM OR SOIL UNTIL TRIBUTARY AREA IS STABILIZED.

INSTALL TEMPORARY INLET PROTECTION AROUND ALL STORM INLETS (TYP.)

BROKEN ASPHALT & STONE PARKING AREA

ASPHALT DRIVEWAY

REMOVE EX. GATE & FENCE

GRAVEL DRIVEWAY

GRAVEL WORK AREA

CLEAR & GRUB TO LIMITS SHOWN

REMOVE EX. UTILITY POLE, COORD. WITH UTILITY CO

CONC. BLOCK BUILDING

N/F JAMES P TRIMPER SR
460 DODGE ROAD
S.B.L. 41.06-1-7.211
MAP BY PRATT & HUTH 1985

BROKEN ASPHALT & GRAVEL

GREENHOUSE

SEE DEMO NOTE 6

ASP.SIDEWALK

ASPHALT

W.STRUCT

WOOD STRUCT.

WOOD STRUCTURE

SEE DEMO NOTE 6

INSTALL INLET PROTECTION AT PROPOSED STORM STRUCTURE, TYP.

PROPANE TANK

FR.SHED 12.19'X8.27'

1 STY. CONC. BLOCK/ BRICK/FRAME BUILDING #480

PAVERS

REMOVE EX. GATE

REMOVE EX. FENCE

2 STY. FRAME HOUSE #480

ASPHALT AREA

REMOVE EX. OVERHEAD UTILITY LINE AND POLE, COORD. WITH UTILITY CO.

30'WIDE SANITARY SEWER EASEMENT TO TOWN OF AMHERST, L.8212-D.306

ASPHALT PARKING LOT

POND

REMOVE EX. ASPHALT PAVEMENT TO LIMITS SHOWN

PVC PIPE

30'x30' SANITARY EASEMENT TO TOWN OF AMHERST

ASPH. DW.

STONE ISLAND

ASPHALT DRIVEWAY

REMOVE EX. OVERHEAD UTILITY LINE AND POLE, COORD. WITH UTILITY CO.

REMOVE EX. WATER STRUCTURE

WATER SPIGOT

EX. DITCH TO BE INFILLED

GRAVEL DRIVEWAY

GRAVEL PARKING AREA

CONTRACTOR SHALL INSTALL SILT FENCE AROUND PERIMETER OF SOIL STOCKPILE

APPROX. LOCATION TEMPORARY STOCKPILE LOCATION, REFER TO EC NOTE 10

REMOVE EX. BRIDGE

BRIDGE

REMOVE EX. CULVERT

APPROX. LOCATION OF UTILITY EASEMENT TO N.Y.Y. CO. L.7627-D.588

GRAVEL DW.

EX. GRAVEL DRIVEWAY TO BE USED AS CONSTRUCTION ENTRANCE. ONCE GRAVEL ENTRANCE IS REMOVED, INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, LOCATION MAY BE ADJUSTED TO ACCOMMODATE CONSTRUCTION

INSTALL CONCRETE WASHOUT AREA TO ALLOW EASY ACCESS FOR CONCRETE TRUCKS, LOCATION MAY BE ADJUSTED TO ACCOMMODATE CONSTRUCTION

66± CURB CUT

INSTALL INLET PROTECTION AT PROPOSED STORM STRUCTURE, TYP.

NOTE: EX. SANITARY EASEMENT LIMITS TO BE REDUCED

30'WIDE SANITARY SEWER EASEMENT TO TOWN OF AMHERST, L.8212-D.306 & L.8212-D.602 & L.8212-D.291 & L.8212-D.259

REMOVE EX. END SECTION

REMOVE & RELOCATE "AUDUBON RESIDENTIAL COMMUNITY" SIGN, COORD. WITH TOWN AND ECDPW

DODGE (66.0' WIDE) ROAD

ROBIN RIDGE ROAD

451 DODGE ROAD
461 DODGE ROAD
469 DODGE ROAD
477 DODGE ROAD
485 DODGE ROAD
493 DODGE ROAD
501 DODGE ROAD
509 DODGE ROAD

N/F DAVID H MUCK
550 DODGE ROAD
S.B.L. 41.06-1-10
L.11404-D.1095

STABILIZATION NOTES

1. ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT.
   1.1. NYSDEC RECOMMENDS IF WORKING IN SPRING/SUMMER/EARLY FALL, SEED THE REQUIRED AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE (APPROX. 0.7 LB./1,000 SF).
   1.2. NYSDEC RECOMMENDS IF WORKING IN LATE FALL/EARLY WINTER, SEED THE REQUIRED AREA WITH 'AROOSTOOK' WINTER RYE (CEREAL RYE) AT 100 LBS. PER ACRE (APPROX. 2.5 LB./1,000 SF).
2. NYSDEC RECOMMENDS TO MULCH THE REQUIRED AREA WITH HAY OR STRAW 2 TONS/ACRE (APPROX. 90 LB./1000 SF). QUALITY OF HAY OR STRAW MULCH ALLOWABLE WILL BE DETERMINED BASED ON LONG TERM USE AND VISUAL CONCERNS. MULCH ANCHORING WILL BE REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IF APPLIED ACCORDING TO MANUFACTURED SPECIFICATION.

DEMOLITION & EROSION CONTROL LEGEND

- EXISTING PAVEMENT TO BE SAWCUT & REMOVED
- PROPOSED SILT SOCK
- EXISTING TREE TO BE REMOVED
- PROPOSED STORM INLET PROTECTION

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

30 0 30 60Ft.

N

Demolition & Erosion Control Plan

SCALE: 1"=30'

CARMINAWOOD DESIGN
111 Bain Street, Suite 332
Greensboro, North Carolina 27406
Phone: (336) 937-9009

80 Sito City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	7/21/23
2	Rev. per Town comments	12/8/23
3	Rev. per Town comments	1/18/24
4	Rev. per Town comments	1/27/25

STATE OF NEW YORK
R. CHRISTOPHER WOOD
LICENSED
076394
PROFESSIONAL ENGINEER

DRAWING NAME:
Demolition & Erosion Control Plan

Date: 3/20
Drawn By: P. She
Scale: As No

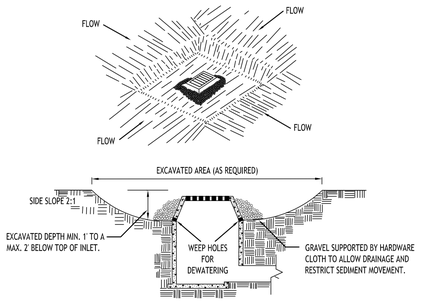
DRAWING NO.
C-001

Project No: 22.296

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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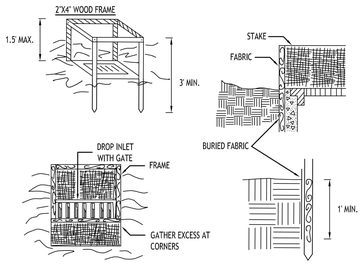
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



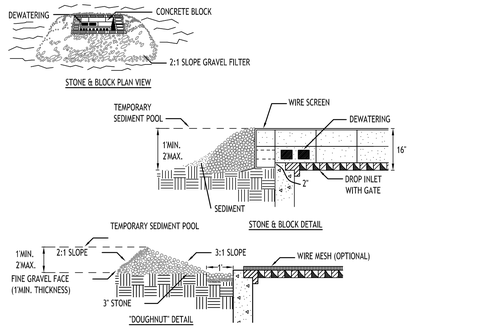
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUN DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

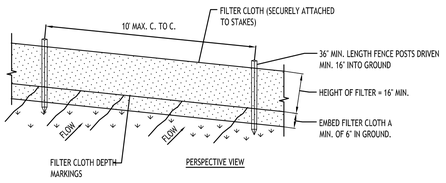
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

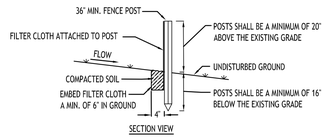
MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION



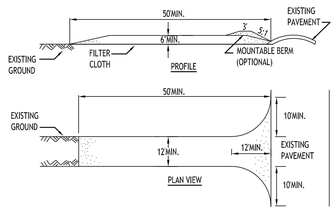


CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

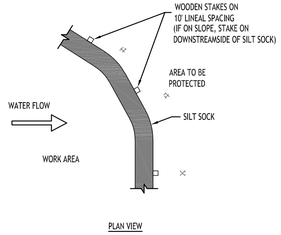


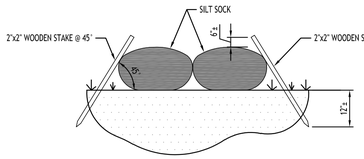
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE





NOTES:

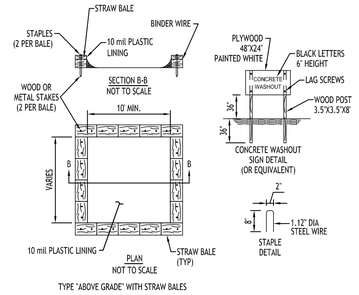
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

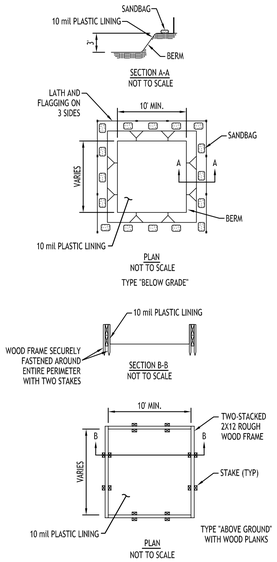
SILT SOCK DETAIL

NOT TO SCALE



NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.



CONCRETE WASHOUT DETAIL

NOT TO SCALE

DEMOLITION NOTES:

1. ALL PERIMETER SILT SOCK TO BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITY BEGINNING.
2. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES AND CATCH BASINS.
3. TEMPORARY SILT SOCK TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
4. AS NECESSARY, COVERED DUMPSTERS SHALL BE PROVIDED ONSITE AS REQUIRED FOR CONSTRUCTION WASTE.
5. REMOVE ALL TREES AND STUMPS AS SHOWN AND DISPOSE OF OFF SITE. CONTRACTOR TO PROTECT ALL TREES/BRUSH NOT DISTURBED BY CONSTRUCTION ACTIVITY. LOCATIONS OF TREES SHOWN ON PLAN ARE APPROXIMATE, CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION.
6. REMOVE EXISTING BUILDING TO INCLUDE ALL FOUNDATIONS, SIDEWALKS & PATIOS, STEPS, LANDSCAPING, ETC. ALL UTILITY CONNECTIONS TO BE ABANDONED AND/OR REMOVED PER COUNTY, TOWN, AND UTILITY COMPANY REQUIREMENTS. BACKFILL ANY FOUNDATIONS REMOVED AS NEEDED.
7. EXISTING TREE LOCATIONS ARE APPROXIMATE, CONTRACTOR TO LOCATE LOCATIONS PRIOR TO CONSTRUCTION AND COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.

EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY SILT SOCK BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT SOCK BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE OF TOPSOIL MUST BE FOLLOWED. TOPSOIL MAY NOT BE REMOVED WITHOUT A PERMIT.
3. ALL SILT SOCK BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND SPREAD WATER AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN/CITY.
9. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
10. INSTALL TEMPORARY SILT SOCK AROUND THE BASE OF STOCKPILES. STOCKPILES NOT BEING ACTIVELY USED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED.
11. THE PROFESSIONAL CERTIFYING COMPLIANCE TO NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS MUST INSPECT AT A MINIMUM WEEKLY, AND WHEN DISTURBING MORE THAN 5 ACRES TWICE A WEEK, AND SHALL PROVIDE THESE INSPECTION REPORT WITH A WRITTEN CERTIFICATION OF CONSTRUCTION COMPLIANCE TO THE TOWN OF AMHERST (BI)WEEKLY.
12. THE ENGINEER OF RECORD FOR THIS PROJECT CERTIFIES THAT THESE DESIGN PLANS MEET THE REQUIREMENTS AND ARE IN COMPLIANCE WITH THE NEW YORK STORMWATER MANAGEMENT DESIGN MANUAL AND NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS.

SEQUENCE OF MAJOR ACTIVITIES

THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING EROSION CONTROL AND STORM WATER MANAGEMENT CONTROL MEASURES. THE CONTRACTOR MAY DESIGNATE THESE TASKS TO CERTAIN SUBCONTRACTORS AS HE SEES FIT, BUT THE ULTIMATE RESPONSIBILITY FOR IMPLEMENTING THESE CONTROLS AND ENSURING THEIR PROPER FUNCTIONING REMAINS WITH THE CONTRACTOR. THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

A. INSTALL STABILIZED CONSTRUCTION ENTRANCE

B. INSTALL PERIMETER SILT FENCES/SILT SOCK IN THE LOCATIONS SHOWN ON THE DEMOLITION AND EROSION CONTROL PLAN SHEET.

C. CLEAR & GRUB SITE.

D. INSTALLATION OF UNDERGROUND DETENTION BASIN.

E. COMMENCE SITE GRADING.

F. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.

G. CONSTRUCTION OF BUILDINGS.

H. INSTALLATION OF PROPOSED UTILITIES.

I. FINALIZE PAVEMENT SUBGRADE PREPARATION.

J. CONSTRUCT ALL CURB, DRAINAGE INLETS, STORM SEWER PIPES AND STORM SEWER MANHOLES, AS SHOWN ON PLANS. INSTALL TEMPORARY INLET PROTECTION AT THE LOCATION OF ALL INLETS.

K. DUCT CONTROL.

L. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.

M. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.

N. CARRY OUT FINAL GRADING AND SEEDING AND PLANTINGS.

O. CLEAN STORM SYSTEM FOLLOWING CONSTRUCTION, CLEAN UNDERGROUND DETENTION BASIN AS PER MANUFACTURER RECOMMENDATIONS.

P. REMOVE SILT FENCE/SILT SOCK ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.

Q. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS.

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Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date

STATE OF NEW YORK
R. CHRISTOPHER WOOD
LICENSED 076394
PROFESSIONAL ENGINEER

DRAWING NAME:

Demolition & Erosion Control Notes & Details

Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.

C-002

Project No: 22.296

1.b

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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DETAIL LEGEND
SEE SITE DETAIL SHEET

1. TYPE 'A' CONCRETE CURB
2. 90° PARKING STALL
3. CONCRETE SIDEWALK, 5' WIDE UNLESS OTHERWISE NOTED
4. STANDARD DUTY ASPHALT
5. HANDICAP PAVEMENT MARKINGS
6. HANDICAPPED PARKING SIGN
7. EXTERIOR CONCRETE SLAB ON GRADE
8. LIGHT POLE FOUNDATION, SEE LIGHTING PLAN LP-100
9. SIDEWALK CURB RAMP
10. HANDICAP PAVEMENT RAMP
11. CROSSWALK STRIPING
12. DUMPSTER ENCLOSURE
13. 4' ALUMINUM FENCE
14. PAINTED TRAFFIC ARROWS
15. STOP BAR
16. STOP SIGN, MUTCD NO. R1-1

NOTE LEGEND

1. EDGE OF PAVEMENT
2. RUNOUT CURB IN 2' OR MATCH EXISTING CURB
3. INSTALL 'NO PARKING' SIGN, M.U.T.C.D. SIGN NO. R7-1C
4. LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
5. 4" WIDE WHITE PAINT STRIPE @ 45° B Z O.C., INFILL AREA AS SHOWN
6. MATCH EX. PAVEMENT, SAWCUT AS REQ'D TO ACHIEVE SQUARE EDGE TO MATCH
7. WALL PACK LIGHT, REFER TO LIGHTING PLAN LP-100
8. BIKE RACK, BELSON OUTDOORS 'U-RACK' OR APPROVED EQUAL
9. 3' HIGH SOLID FENCE
10. INSTALL 'RIGHT TURN ONLY' SIGN, M.U.T.C.D. SIGN NO. R3-5R
11. INSTALL 'NO LEFT TURN' SIGN, M.U.T.C.D. SIGN NO. R3-2
12. DETECTABLE WARNING STRIP
13. INSTALL M.U.T.C.D. SIGN NO: W11-2 & W16-7P AND 'ELTEC' RECTANGULAR RAPID FLASHING BEACONS CARAMANAH SC-315 OR APPROVED EQUAL, SEE DETAIL ON DWG. C-102
14. "SHARKS TEETH" YIELD LINE, WHITE 20 MIL EPOXY RELECTORIZED
15. INSTALL "YIELD HERE TO" SIGN, M.U.T.C.D. SIGN NO. R1-5
16. INSTALL 'PEDESTRIAN CROSSING' SIGN, M.U.T.C.D. SIGN NO. W11-2
17. INSTALL 'AHEAD' PLAQUE, M.U.T.C.D. SIGN NO. W16-9P

GENERAL NOTES:

1. INSTALL ALL MATERIALS TO MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
2. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNER'S APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
3. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
4. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
6. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.

Site Data

SITE AREA = 5.17 AC
ZONED: NCD-GC
BUILDING: PROPOSED (2) 3 STORY APARTMENT BUILDINGS, (6) TOWNHOUSE BUILDINGS, DETACHED GARAGES

SETBACKS - BUILDING	REQUIRED	PROVIDED
FRONT	N/A	15.0' MIN.
SIDE	N/A	27.36' MIN.
SIDE (ACCESSORY)	N/A	> 325.0'
REAR	N/A	10.0' MIN.
REAR (ACCESSORY)	N/A	11.82' MIN.
SETBACKS - PARKING		
FRONT	N/A	65.0' MIN.
SIDE	N/A	14.46' MIN.
REAR	N/A	10.38' MIN.
PARKING		
# OF SPACES - SEE CALCULATION BELOW	216	241 TOTAL
PARKING SPACE SIZE	9'x19'	9'x19' & GARAGE
LANDSCAPING		
INTERIOR PARKING AREA (10%, AREA ≥ 43,560 SF)	0.20 AC	0.24 AC
SITE OPEN SPACE	25% MIN. (1.4 AC)	35.2% (1.82 AC)

PARKING CALCULATION:
REQ'D = 2 SPACES PER DWELLING UNIT
108 DWELLING UNITS x 2 = 216 SPACES REQ'D

N/F NYS DEPT. OF TRANSPORTATION S.B.L. 41.06-1-7.1 LOCKPORT EXPRESSWAY, SECTION II MAP NO. 201, PARCEL 238 — ZONED: NCD-GC

PARALLEL WITH SOUTH LINE LOT 70

N: -0.04 E: -0.05 — 1/2"PF

94.17'

S 89°09'47" E

88°28'33"

87.97' MEAS. 87.96' REF. MAP #1

300.00'

APPROPRIATION OF LANDS FOR HIGHWAY PURPOSES PROJECT LOCKPORT EXPRESSWAY SECTION II, MAP 218, NO. 245 BY THE PEOPLE OF THE STATE OF NEW YORK L.9027-P.222 — ZONED: NCD-B2

N/F NYS DEPT. OF TRANSPORTATION S.B.L. 41.06-1-7.1 LOCKPORT EXPRESSWAY, SECTION II MAP NO. 201, PARCEL 238

PARALLEL WITH EAST LINE LOT 70

STORM WATER MANAGEMENT AREA

N: -0.10 E: 0.88 MON (BROKEN)

LOCKPORT EXPRESSWAY — ZONED: NCD-MOS

SOUTH LINE OF LANDS APPROPRIATED BY THE PEOPLE OF THE STATE OF NEW YORK FOR CONSTRUCTION OF LOCKPORT EXPRESSWAY SECTION II, PARCEL NO. 238

636.61' MEAS. 636.66' REF. MAP#1

EDGE OF PAVEMENT

206.8±

3' WIDE CONCRETE EMERGENCY ACCESS SIDEWALK, TO BE MAINTAINED AND KEPT CLEAR OF SNOW DURING WINTER MONTHS

APPROX. LOCATION OF A/C UNITS. COORD. WITH M.E.P. PLANS

PATIO, TYP.

E.ASHAPLT

ASPHALT PARKING AREA

6 PROPOSED 3 STORY RESIDENTIAL BUILDING 42 UNITS

GARAGE (19 SPACES)

GARAGE (19 SPACES)

7 PROPOSED 3 STORY RESIDENTIAL BUILDING 42 UNITS

APPROX. LOCATION OF A/C UNITS. COORD. WITH M.E.P. PLANS

CONC. BLOCK BUILDING

N/F JAMES P. TRIMPER SR 460 DODGE ROAD S.B.L. 41.06-1-7.211 MAP BY PRATT & HUTH 1985 — ZONED: NCD-GC

N/F DAVID H MUCK 550 DODGE ROAD S.B.L. 41.06-1-10 L.11404-D.1095 — ZONED: NCD-B3

PARALLEL WITH EAST LINE LOT 70

POTENTIAL FUTURE VEHICLE CONNECTION

PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS) — 1

PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS) — 2

PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS) — 3

PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS) — 4

PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS) — 5

PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS) — 6

MEET EX. PAVEMENT

ASPHALT PARKING LOT

30' WIDE SANITARY SEWER EASEMENT TO TOWN OF AMHERST, L.8212-D.306

30'x30' SANITARY EASEMENT TO TOWN OF AMHERST

SAN MH

STOP — ONE WAY ONLY

GROUND SIGN

APPROX. LOCATION OF 5.0' PERMANENT EASEMENT N.Y.Y. CO. L.8212-D.186

EXISTING DOUBLE YELLOW SOLID PAVEMENT STRIPING

EDGE OF PA

APPROX. LOCATION OF A/C UNITS. COORD. WITH M.E.P. PLANS

DODGE (66.0' WIDE) ROAD

SOUTH LINE LOT 70

NORTH LINE LOT 69

400.0'

WHITE STRIPE/EOP

CL IMPROVEMENTS

CL OF R.O.W.

EDGE OF PAVED SHOULDER

ASPH. DW.

CONC. SIDEWALK

305 LF FROM YIELD LINE

REMOVE 186 LF± OF EXISTING CENTERLINE DASH PAVEMENT MARKING, REPLACE WITH 4" WIDE DOUBLE YELLOW SOLID PAVEMENT STRIPING (20 MIL EPOXY REFLECTORIZED)

REMOVE & RELOCATE 'AUDUBON RESIDENTIAL COMMUNITY' SIGN, COORD. WITH TOWN AND ECDPW

ROBIN RIDGE ROAD

4" WIDE WHITE SOLID PAVEMENT STRIPING (20 MIL EPOXY REFLECTORIZED)

REMOVE 304 LF± OF EXISTING CENTERLINE DASH PAVEMENT MARKING, REPLACE WITH 4" WIDE DOUBLE YELLOW SOLID PAVEMENT STRIPING (20 MIL EPOXY REFLECTORIZED)

305 LF FROM YIELD LINE

1327.02' MEAS., 1327.32' DEED TO EAST LINE OF LOT 70, ALSO CENTERLINE OF CAMPBELL BLVD.

451 DODGE ROAD — ZONED: NCD-SA

461 DODGE ROAD — ZONED: NCD-ND

469 DODGE ROAD — ZONED: NCD-ND

477 DODGE ROAD — ZONED: NCD-ND

485 DODGE ROAD — ZONED: NCD-ND

493 DODGE ROAD — ZONED: NCD-ND

501 DODGE ROAD — ZONED: NCD-ND

509 DODGE ROAD — ZONED: NCD-ND

Site Plan
SCALE: 1"=30'

STREET & SITE SIGNS:

SN#1	STREET SIGN	ROBIN RIDGE RD & DODGE RD
SN#2	STOP SIGN	
SN#3	SPEED LIMIT 40MPH	
SN#4	SPEED LIMT 40 MPH	
SN#5	PYLON SIGN	ARBORDALE NURSERIES LANDSCAPING

SITE LEGEND

- PROPERTY LINE
- PROPOSED CURB
- PROPOSED SIDEWALK / CONCRETE PAD
- NUMBER OF PARKING SPACES
- PROPOSED SIGN
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED LIGHT POLE
- SAN MH

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

30 0 30 60Ft.

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Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. per neighbor comments	6/21/23
3	Rev. per Town comments	7/21/23
4	Rev. per Town comments	9/12/23
5	Rev. per Town comments	9/14/23
6	Rev. per Town comments	12/8/23
7	Rev. per ECDPW comments	1/12/24
8	Rev. per ECDPW comments	1/18/24

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

STATE OF NEW YORK — R. CHRISTOPHER WOOD — 070394 — LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Site Plan

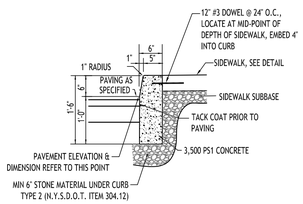
Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.
C-100

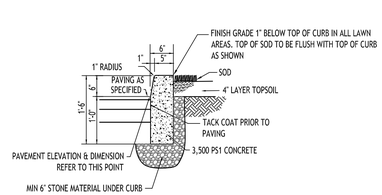
Project No: 22.296

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ABUTTING SIDEWALK

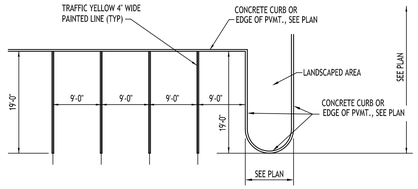


ABUTTING LANDSCAPE/GRASS

NOTES:
1. CONTROL JOINTS TO BE 2" DEEP AT 15'-0" O.C. - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. WHERE THE CURB DROPS (IS FLUSH WITH ASPHALT) THE DEPTH OF CURB BELOW GRADE SHALL BE INCREASED TO 1'-6" AND OTHER DIMENSIONS ADJUSTED ACCORDINGLY.

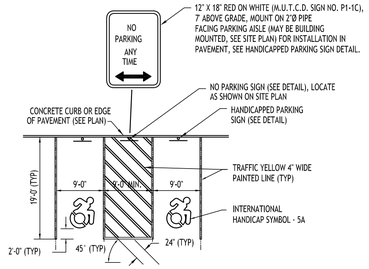
TYPE "A" CONCRETE CURB - 1

NOT TO SCALE



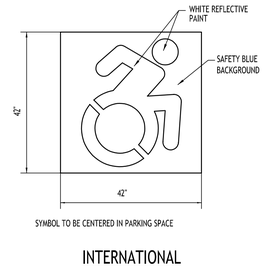
90° PARKING STALL LAYOUT - 2

NOT TO SCALE



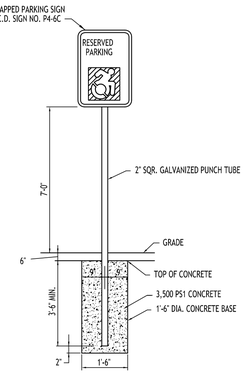
HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 5

NOT TO SCALE



INTERNATIONAL HANDICAP SYMBOL - 5A

NOT TO SCALE

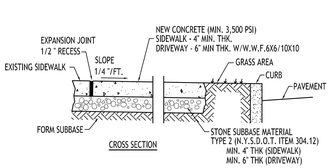


NOTES:
1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

GRASS/LAWN AREA

HANDICAPPED PARKING SIGN - 6

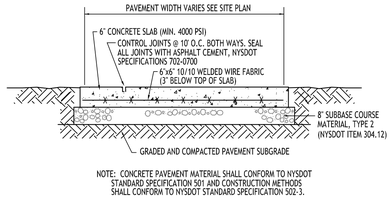
NOT TO SCALE



NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTH WAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3.
3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE, PROVIDE CONTINUOUS STONE PATH TO CURB UNDERDRAIN WHERE PROVIDED.
4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB.
6. INSTALL 6" LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN ENTRANCE, THICKEN SIDEWALK TO 6' AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6' DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE.
7. INSTALL 1/2" PREMOLDED EXPANSION JOINT WITH BACKER ROD & SEALANT WHERE SIDEWALK ABUTS BUILDING OR OTHER STRUCTURE.

CONCRETE SIDEWALK - 3

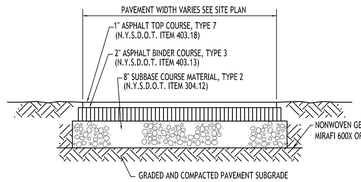
NOT TO SCALE



NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-3.

EXTERIOR CONCRETE SLAB-ON-GRADE SECTION - 7

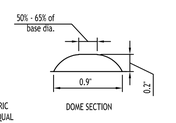
NOT TO SCALE



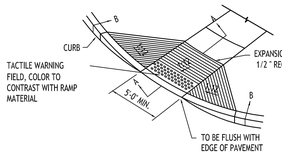
NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

STANDARD DUTY ASPHALT SECTION - 4

NOT TO SCALE

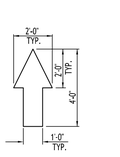


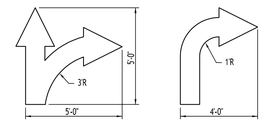
NOTE: TACTILE WARNING DEVICES SHALL BE PER ICC/ANSI A117.1-1998, SECTION 705.3.1.2 OR CURRENT UPDATE



SIDEWALK CURB RAMP - 9

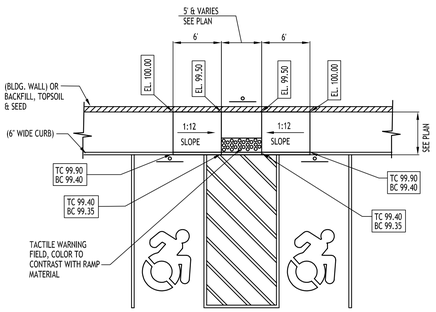
NOT TO SCALE

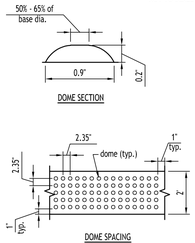




PAINTED TRAFFIC ARROWS - 14

NOT TO SCALE



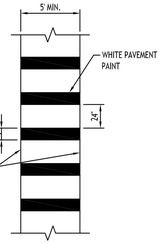


NOTE: TACTILE WARNING DEVICES SHALL BE PER ICC/ANSI A117.1-1998, SECTION 705.3.1.2 OR CURRENT UPDATE

NOTE: ELEVATIONS & DIMENSIONS SHOWN ARE TO ILLUSTRATE GRADE CHANGE ONLY, SEE SITE & GRADING PLAN FOR ACTUAL DATUM & DIMENSIONS

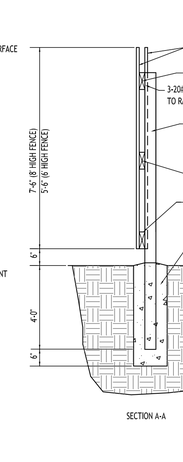
HANDICAPPED PAVEMENT RAMP - 10

NOT TO SCALE

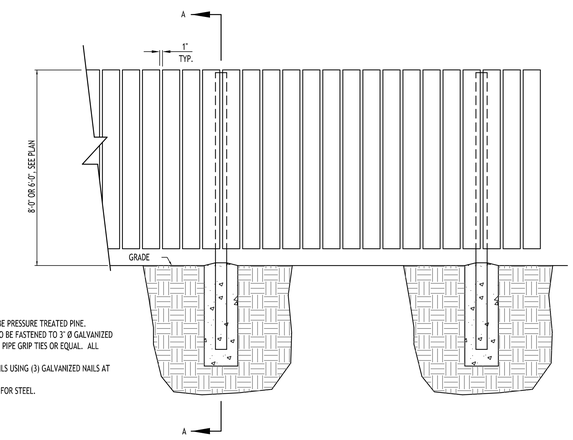


CROSSWALK STRIPING - 11

NOT TO SCALE

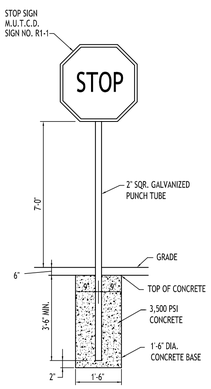


NOTES:
1. ALL WOODEN FENCE MATERIAL TO BE PRESSURE TREATED PINE.
2. CENTER, BOTTOM AND TOP RAILS TO BE FASTENED TO 3" Ø GALVANIZED STEEL FENCE POSTS USING SIMPSON PIPE GRIP TIES OR EQUAL. ALL HARDWARE TO BE GALVANIZED.
3. ATTACH EACH 1" X 6" BOARD TO RAILS USING (3) GALVANIZED NAILS AT EACH RAIL LOCATION.
4. WOOD POSTS CAN BE SUBSTITUTED FOR STEEL.



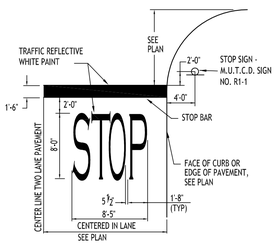
6' BOARD ON BOARD FENCE FOR DUMPSTER ENCLOSURE

NOT TO SCALE



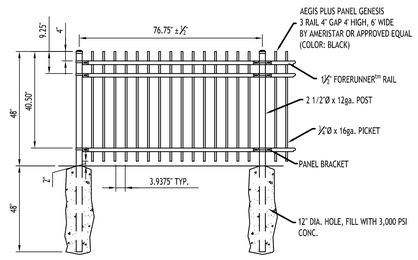
STOP SIGN - 16

NOT TO SCALE



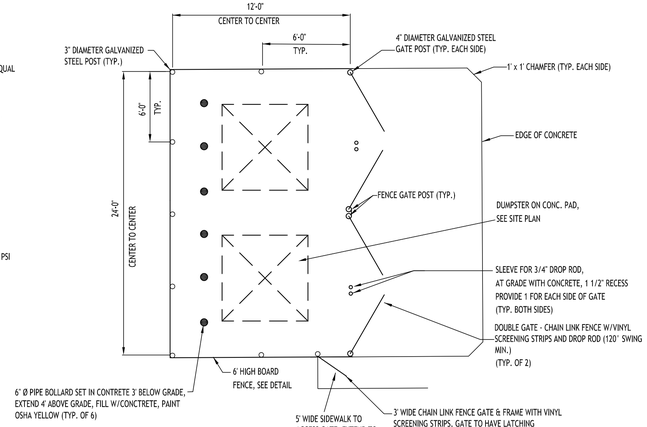
STOP BAR DETAIL - 15

NOT TO SCALE



ALUMINUM FENCE DETAIL - 13

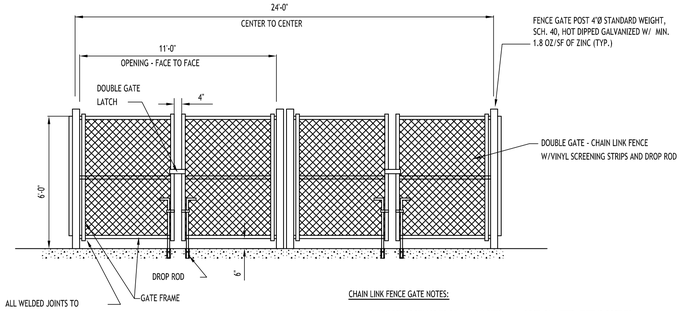
NOT TO SCALE



PLAN VIEW

DUMPSTER ENCLOSURE - 12

NOT TO SCALE



CHAIN LINK FENCE GATE NOTES:

1. GATE POST FOOTINGS TO BE MIN. 36" DEEP x (4x) POST DIAMETER, EXTEND POST TO WITHIN 6" OF BOTTOM.
2. GATE FRAMES TO BE 2" SQ. GALVANIZED STEEL, WEIGHING 2.60 LB/FT IN ACCORDANCE WITH ASTM F 900.
3. CHAIN LINK FENCE FABRIC SHALL BE 2" MESH, 9 GAUGE, ZINC COATED STEEL CORE WIRE. INSTALL MESH WITH HOOK BOLTS AND TENSION BARS ON ALL 4 SIDES, ATTACH AT 15" MAX.
4. DOUBLE GATE LATCH TO BE FORKED TYPE CAPABLE OF RETAINING GATE IN CLOSED POSITION AND HAVE PROVISION FOR PAD LOCK. LATCH SHALL BE OPERABLE FROM EITHER SIDE OF GATE.
5. ALL HARDWARE TO BE HOT DIPPED GALVANIZED STEEL TO SUIT GATE SIZE.

FRONT VIEW

CARMINAWOOD DESIGN
111 Bain Street, Suite 332
Greensboro, North Carolina 27406
Phone: (336) 937-9009
80 Sito City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

STATE OF NEW YORK
CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Site Details

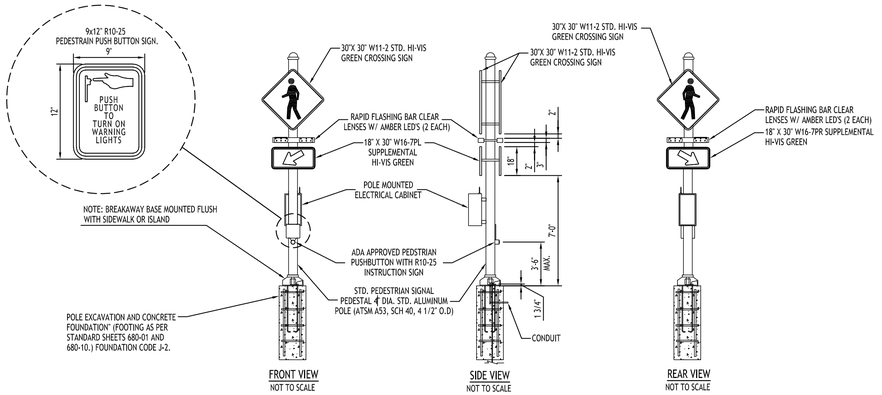
Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.
C-101

Project No: 22.296

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© CARMINA WOOD DESIGN



RECTANGULAR RAPID FLASHING BEACON

NOT TO SCALE

NOTES:
1. BASIS OF DESIGN IS CARMANAH SC-315 OR APPROVED EQUAL.
2. ALL ADA STANDARDS SHALL BE MET WITH PLACEMENT OF THE SIGN WITH THE PROPOSED CROSSWALK.

CARMINAWOOD DESIGN

80 Sito City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

111 Bain Street, Suite 332
Greensboro, North Carolina 27406
Phone: (336) 937-9009

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:		
No.	Description	Date
1	Rev. per ECDPW comments	1/12/24



DRAWING NAME:
Site Details

Date: 3/20
Drawn By: P. She
Scale: As No

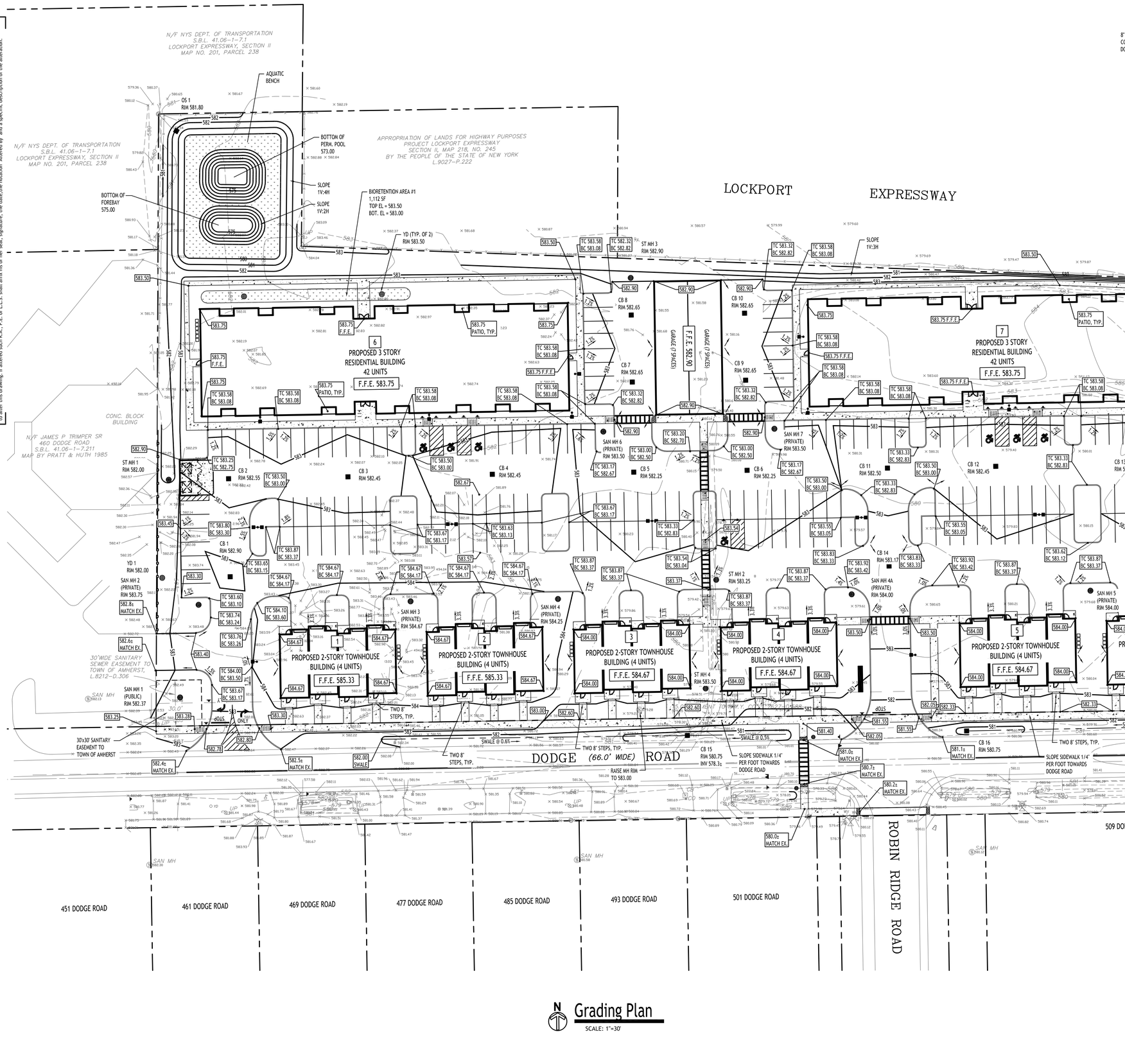
DRAWING NO.
C-102

Project No: 22.296

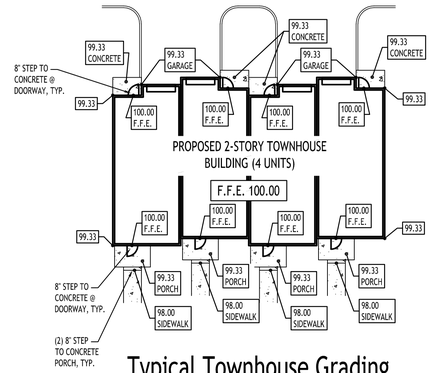
Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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© CARMINA WOOD DESIGN



Grading Plan
SCALE: 1"=30'



Typical Townhouse Grading
NOT TO SCALE

CARMINAWOOD DESIGN
111 Bain Street, Suite 332
Greensboro, North Carolina 27406
Phone: (336) 937-9009
80 Sitio City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. per Town & ECDPW comments	7/21/23
3	Rev. per Town comments	8/10/23
4	Rev. per Town comments	12/8/23
5	Rev. per Town comments	1/27/25

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Grading Plan

Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.
C-200

Project No: 22.296

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© CARMINA WOOD DESIGN

N/F NYS DEPT. OF TRANSPORTATION
S.B.L. 41.06-1-7.1
LOCKPORT EXPRESSWAY, SECTION II
MAP NO. 201, PARCEL 238

APPROPRIATION OF LANDS FOR HIGHWAY PURPOSES
PROJECT LOCKPORT EXPRESSWAY
SECTION II, MAP 218, NO. 245
BY THE PEOPLE OF THE STATE OF NEW YORK
L.9027-P.222

OS 1
RIM 581.80
INV 579.48

4 LF 8" HDPE @ 0.5%

8" END SECTION
INV 579.40

8" END SECTION
INV 579.50

16 LF 8" HDPE @ 0.5%
(OUTLET PIPE)

6" END SECTION
INV 580.39

10" END SECTION
INV 579.75

10" END SECTION
INV 579.75

227 LF 10" HDPE @ 0.3%

ST MH 3
RIM 582.90
INV 580.44

YD 3
RIM 583.50
INV 580.50

22 LF 6" HDPE
@ 2.0%

YD 2
RIM 583.50
INV 580.50

87 LF 6" PERF.
HDPE @ 0.0%

REAR ROOF DOWNSPOUTS TO SPLASH ON GROUND

YD 4
RIM 583.50
INV 580.50

140 LF 10" HDPE @ 0.3%

6
PROPOSED 3 STORY
RESIDENTIAL BUILDING
42 UNITS
F.F.E. 583.75

6" HDPE @ 1.0% MIN
PERIMETER DRAIN,
CONNECT DOWNSPOUTS
TO PERIMETER DRAIN

CB 8
RIM 582.65
INV 580.52

CB 7
RIM 582.65
INV 580.65

CB 9
RIM 582.65
INV 580.29

CB 10
RIM 582.65
INV 580.65

F.F.E. 582.90

GARAGE (75 SPACES)

GARAGE (75 SPACES)

7
PROPOSED 3 STORY
RESIDENTIAL BUILDING
42 UNITS
F.F.E. 583.75

6" HDPE @ 1.0% MIN
PERIMETER DRAIN,
CONNECT DOWNSPOUTS
TO PERIMETER DRAIN

EAST ROOF DOWNSPOUTS
TO SPLASH ON GROUND

YD 4
RIM 583.50
INV 580.50

48 LF 6" PERF.
HDPE @ 0.0%

YD 5
RIM 583.50
INV 580.50

C.O., TYP.

CONC. BLOCK BUILDING

N/F JAMES P TRIMPER SR
460 DODGE ROAD
S.B.L. 41.06-1-7.211
MAP BY PRATT & HUTH 1985

ST MH 1
RIM 582.00
INV 580.17

39 LF 10" HDPE @ 0.3%

CB 2
RIM 582.55
INV 580.27

78 LF 10" HDPE @ 0.3%

CB 3
RIM 582.45
INV 580.50

CB 4
RIM 582.45
INV 580.45

93 LF 10" HDPE @ 0.37%

CB 5
RIM 582.25
INV 580.09

74 LF 10" HDPE @ 0.37%

CB 6
RIM 582.25
INV 579.82

INSTALL SIDEWALL
TRASH RACK TO
SOUTH INVERT

CB 11
RIM 582.50
INV 580.14

96 LF 10" HDPE @ 0.5%

CB 12
RIM 582.45
INV 579.66

96 LF 10" HDPE @ 0.3%

CB 13
RIM 582.45
INV 579.95

73 LF 6" HDPE @ 0.6%

YD 6
RIM 581.90
INV 580.40

N/F DAVID H MUCK
550 DODGE ROAD
S.B.L. 41.06-1-10
L.11404-D.1095

UNDERGROUND DETENTION FIELD
ADS STORMTECH SC-740 CHAMBERS
TOP OF CHAMBER 581.67
BOTTOM OF CHAMBER 579.17
BOTTOM OF STONE 578.67

POTENTIAL
FUTURE VEHICLE
CONNECTION

41 LF 6" HDPE
@ 1.0%

YD 7
RIM 581.90
INV 579.90

64 LF 6" HDPE @ 0.5%

YD 1
RIM 582.00
INV 580.50

CB 1
RIM 582.90
INV 580.90

30'WIDE SANITARY
SEWER EASEMENT TO
TOWN OF AMHERST,
L.8212-D.306

SAN.MH#7
RIM=582.13
W. INV=569.89
E. INV=570.78
S. INV=569.85

SAN MH
18" RCP

30.0'

30'x30' SANITARY
EASEMENT TO
TOWN OF AMHERST

ONLY

STOP

1
PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 585.33

2
PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 585.33

3
PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 585.33

4
PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 584.67

5
PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 584.67

6
PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 584.67

70 LF 8" HDPE @ 0.3%
(OUTLET PIPE)

32 LF 8" HDPE @ 0.5%
(OUTLET PIPE)

ST MH 4
RIM 583.50
INV 578.43

VQ-1
RIM 583.5±
(TO MATCH LAWN AREA)
INV 578.47

182 LF 12"
HDPE @ 0.25%

CB 15
RIM 580.75
INV 578.3±

CB 16
RIM 580.75
INV 578.75

6" HDPE @ 1.0% MIN PERIMETER
DRAIN, CONNECT DOWNSPOUTS
TO PERIMETER DRAIN, TYP. ALL
TOWNHOUSE BUILDINGS

6" HDPE @ 1.0% MIN PERIMETER
DRAIN, CONNECT DOWNSPOUTS
TO PERIMETER DRAIN

6" HDPE @ 1.0% MIN PERIMETER
DRAIN, CONNECT DOWNSPOUTS
TO PERIMETER DRAIN, TYP. ALL
TOWNHOUSE BUILDINGS

6" HDPE @ 1.0% MIN PERIMETER
DRAIN, CONNECT DOWNSPOUTS
TO PERIMETER DRAIN, TYP. ALL
TOWNHOUSE BUILDINGS

27 LF 12" CMP @ 0.5%

DODGE (66.0' WIDE) ROAD

EX. CB
RIM 580.7±
INV 578.0±

12" END SECTION
INV 578.20 (ES #4)

CONNECT TO EX.
12" CMP PIPE

ROBIN RIDGE ROAD

509 DODGE ROAD

SAN MH
8"VTP

SAN.MH#5
RIM=581.09
N. INV=574.23
E. INV=573.75

6" CLAY PIPE

8"PVC. PIPE

SAN.MH#4
RIM=583.21
CL INV=572.52

SAN.MH#3
RIM=581.12
W. INV=570.35
E. INV=570.80

SAN MH
18"RCP

SAN.MH#1
RIM=582.30
CL INV=570.00

SAN.MH#2
RIM=581.58
CL INV=570.00

451 DODGE ROAD

461 DODGE ROAD

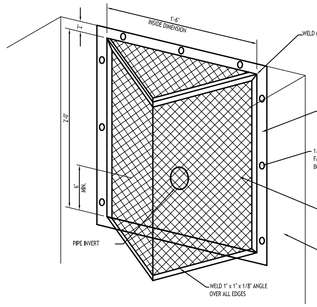
469 DODGE ROAD

477 DODGE ROAD

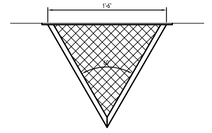
485 DODGE ROAD

493 DODGE ROAD

501 DODGE ROAD



ISOMETRIC VIEW



TOP VIEW

NOTES:

1. SHOP DRAWING OF TRASH RACK TO BE SUBMITTED FOR ENGINEER'S APPROVAL PRIOR TO FABRICATION
2. STEEL TO CONFORM TO ASTM A-36
3. FOLLOWING FABRICATION, THE TRASH RACK ASSEMBLY SHALL BE COATED WITH ZRC COLD GALVANIZING COMPOUND
4. INTERNAL ANGLE BETWEEN SIDE PANELS TO BE 60°

TRASH RACK
NOT TO SCALE

PRE DEVELOPMENT STORMWATER EVENT SUMMARIES - CULVERT/DODGE RD.

Event	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	5.02	13,877	0.92
10-Year	10.93	30,533	2.03
25-Year	14.28	40,270	2.67
100-Year	20.94	60,145	3.99

POST DEVELOPMENT STORMWATER EVENT SUMMARIES - CULVERT/DODGE RD.

Event	Runoff (cfs)	Volume (cubic-feet)	Elevation (ft)
1-Year	1.64	3,629	579.54
10-Year	2.84	7,653	580.24
25-Year	3.45	10,042	580.69
100-Year	4.75	14,839	581.93

PRE DEVELOPMENT STORMWATER EVENT SUMMARIES - DITCH/THRUWAY

Event	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	1.20	3,215	1.92
10-Year	2.94	7,069	4.08
25-Year	3.85	9,361	5.34
100-Year	5.66	14,093	7.94

POST DEVELOPMENT STORMWATER EVENT SUMMARIES - DITCH/THRUWAY

Event	Runoff (cfs)	Volume (cubic-feet)	Elevation (ft)
1-Year	1.01	2,344	580.39
10-Year	1.61	5,751	580.92
25-Year	1.89	7,974	581.24
100-Year	2.35	12,683	581.88

PROPOSED STORM DRAINAGE LEGEND

- PROPOSED STORM PIPE — ST
- PROPOSED PERFORATED STORM PIPE
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED CLEANOUT

CB: CATCH BASIN
MH: MANHOLE
OS: OUTLET STRUCTURE

STORM DRAINAGE NOTES:

1. ALL PIPE OUTLET END SECTIONS SHALL BE INSTALLED WITH RIP RAP STONE PER DETAIL ON DRAWING C-301.
2. ALL STORM MANHOLES SHALL HAVE OPEN GRATE COVER.
3. CONTRACTOR TO SUBMIT A SITE SPECIFIC SHOP DRAWING OF UNDERGROUND DETENTION SYSTEM FOR REVIEW BY ENGINEER BEFORE CONSTRUCTION.

END SECTION INVERTS:

ES#1	12" CMP	577.58
ES#2	12" CMP	578.35
ES#3	12" CMP	577.84
ES#4	12" CMP	~~578.33~~ INV 587.20
ES#5	12" CMP	578.66
ES#6	12" HDPE	578.57
ES#7	12" HDPE	578.45
ES#8	12" HDPE	578.71
ES#9	12" HDPE	578.56
ES#10	12" CMP	578.69

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

30 0 30 60Ft.

N

Storm Drainage Plan

SCALE: 1"=30'

CARMINAWOOD DESIGN
111 Bain Street, Suite 332
Greensboro, North Carolina 27406
Phone: (336) 937-9009

80 Sisto City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. per Town & ECDPW comments	7/21/23
3	Rev. per Town comments	12/8/23
4	Rev. per Town comments	1/27/25
5	Rev. per Town comments	4/25/25

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076304
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Storm Drainage Plan

Date: 3/20
Drawn By: P. She
Scale: As No

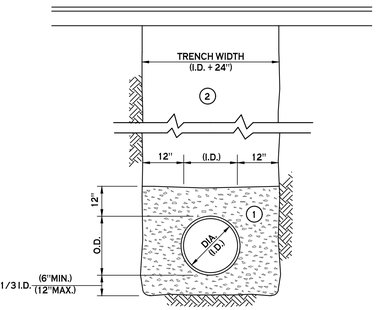
DRAWING NO.
C-300

Project No: 22.296

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

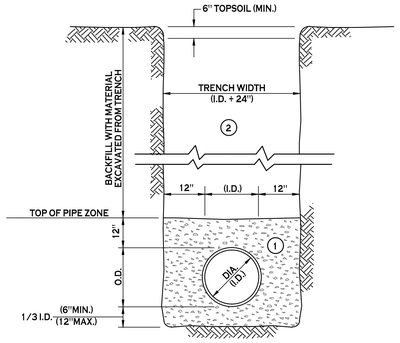
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

STORM SEWER TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

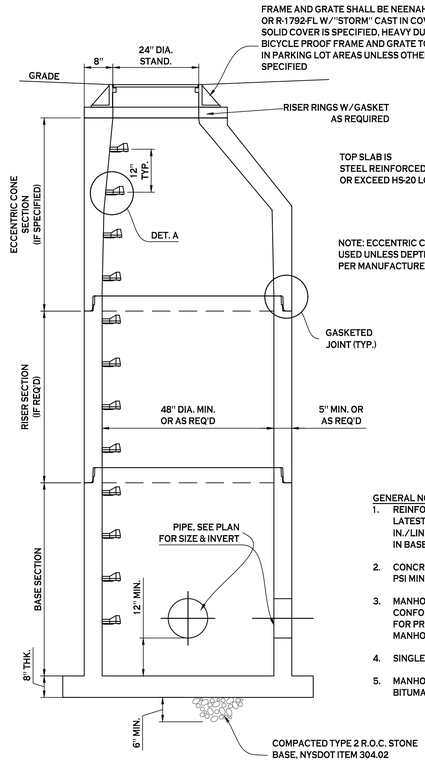
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6" LIFTS.

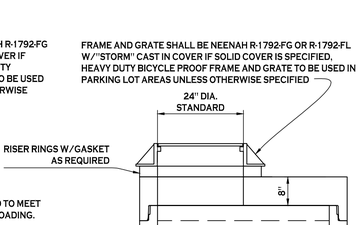
STORM SEWER TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE

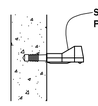


TYPICAL STORM MANHOLE DETAIL

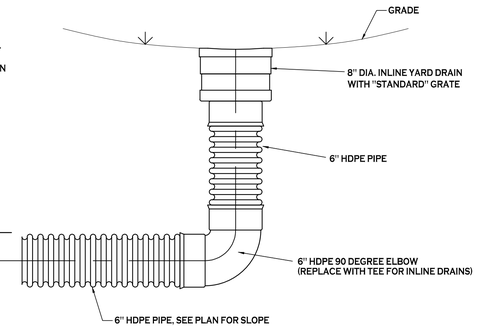
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ALTERNATE TOP SLAB



DETAIL A



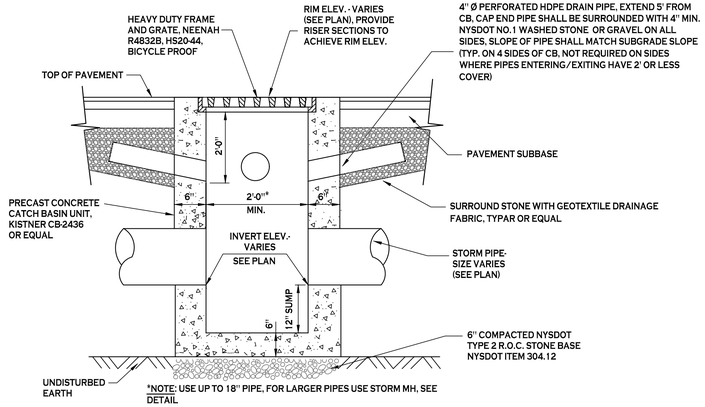
NOTE:
SEE TYPICAL TRENCH SECTION FOR BEDDING REQUIREMENTS

TYPICAL YARD DRAIN DETAIL

NOT TO SCALE

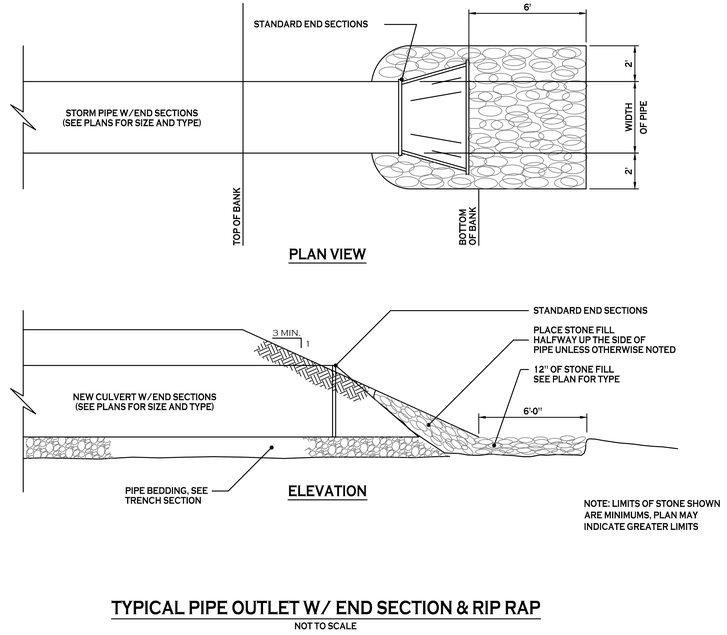
GENERAL NOTES:

1. REINFORCED STEEL TO CONFORM TO LATEST A.S.T.M. A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) IN BASE SLAB.
2. CONCRETE COMPRESSIVE STRENGTH - 4000 PSI MINIMUM.
3. MANHOLE DESIGN SPECIFICATIONS TO CONFORM TO LATEST A.S.T.M. C478 SPEC. FOR PRE-CAST REINFORCED CON-CRETE MANHOLE SECTIONS.
4. SINGLE POUR MONOLITHIC BASE SECTION.
5. MANHOLE TO BE COATED ON OUTSIDE WITH BITUMASTIC SEALER.



TYPICAL PRECAST CATCH BASIN

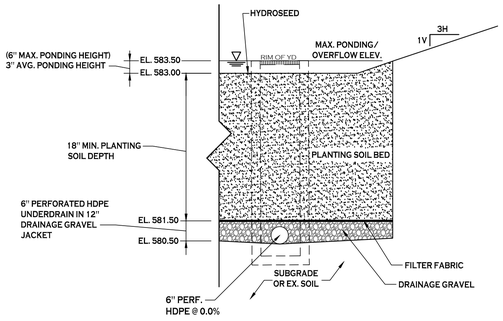
NOT TO SCALE



NOTE: LIMITS OF STONE SHOWN ARE MINIMUMS, PLAN MAY INDICATE GREATER LIMITS

TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP

NOT TO SCALE



NOTES:

1. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180-N OR APPROVED EQUIVALENT
2. DRAINAGE GRAVEL TO MEET AASHTO M-43. NO.67, SIZE 0.25" TO 0.75"
3. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

NOTE: PLANTING SOIL SHALL BE LOAM/SAND MIX CONTAINING A MINIMUM OF 35 TO 60% SAND BY VOLUME AND LESS THAN 25% CLAY. SOIL SHOULD FALL WITHIN USCS TYPES SM OR ML WITH PERMEABILITY OF AT LEAST 0.5 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.

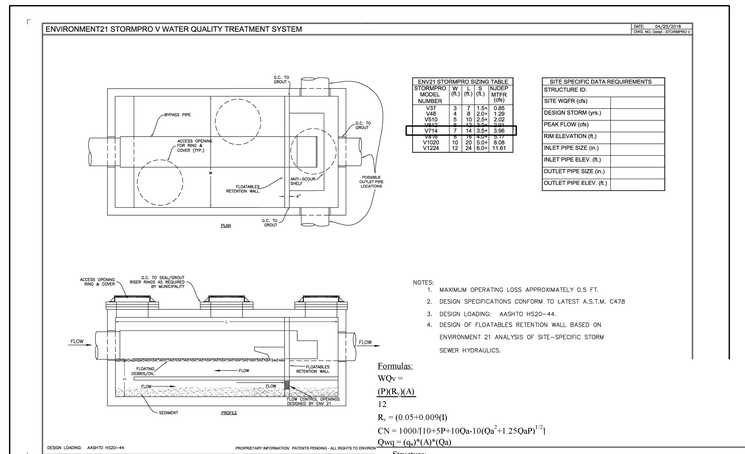
CHARACTERISTICS SHALL BE:
PH RANGE: 5.2 - 7.00
ORGANIC MATTER: 1.5 - 4.0%
MAGNESIUM: 35 LBS PER ACRE MIN.
PHOSPHORUS: 75 LBS PER ACRE MIN.
POTASSIUM: 85 LBS PER ACRE MIN.
SOLUBLE SALTS: 500 PPM
CLAY: 10 TO 25%
SILT: 30 TO 55%
SAND: 35 TO 60%

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

BIORETENTION AREA - TYPICAL SECTION

NOT TO SCALE



Formulas:

$WQ_V = \frac{(P)(R_v)(A)}{12}$

$R_v = (0.05+0.009(I)$

$CN = 1000/[10+5P+10Q_a-10(Q_a^2+1.25Q_aP)^{1/2}]$

$Q_{WQ} = (q_u)*(A)*(Q_a)$

Structure:

P	1.00	in.	rainfall intensity (in.)
A	2.87	ac	project size (ac)
I	69.00	%	impervious area (%)
t_c	21.60	min.	time of concentration (min.)
t_c	0.360	hr.	time of concentration (hr.)
R_v	0.671		runoff coefficient
90% WQ_V	0.160	ac-ft	Water Quality Volume (ac-ft)
90% WQ_V	6990.55	ft^3	Water Quality Volume (ft^3)
S	0.870	in.	potential max. retention after runoff begins
Qa	0.402	in.	
CN	92		curve number
I_a	0.174		initial abstraction
I_a/P	0.174		
qu	1000	(csm/in)	unit peak discharge (csm/in.)
A	0.00448	$miles^2$	area drainage (mi^2)
Qwq	1.80	cfs	

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Phone: (716) 842-3165

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Treatment structure detail added	1/27/25
2	WQv calculation table added	4/25/25



DRAWING NAME:

Storm Drainage Details

Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.

C-301

Project No: 22.296

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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Advanced Drainage Systems, Inc.

SiteAssist®
FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR APP

SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

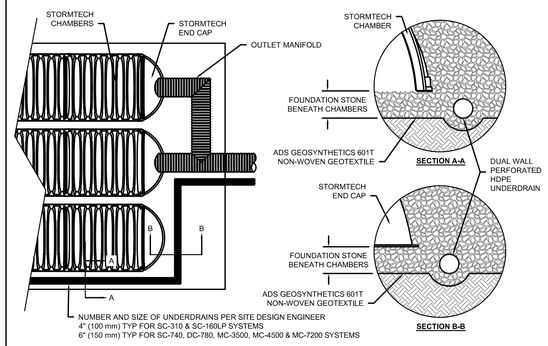
1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

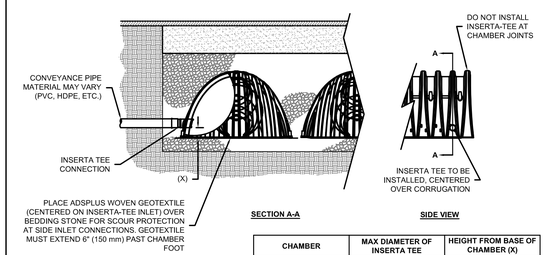
1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



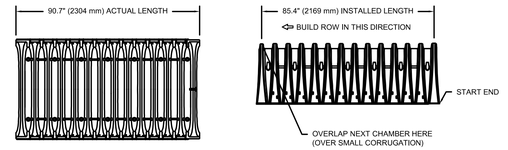
5 UNDERDRAIN DETAIL



NOTES:
- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
- CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

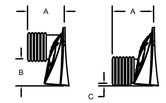
6 INSERTA-TEE SIDE INLET DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 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"

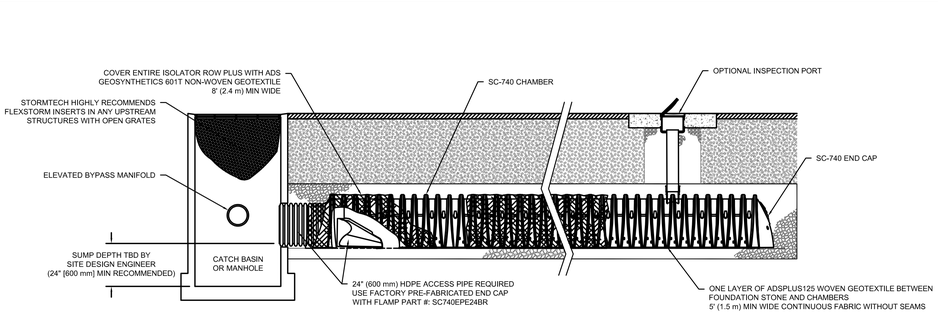
PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (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.

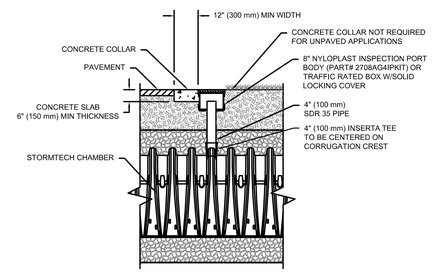
* FOR THE SC740EPE24B/SC740EPE24BR THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

2 SC-740 TECHNICAL SPECIFICATIONS



3 SC-740 ISOLATOR ROW PLUS DETAIL



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

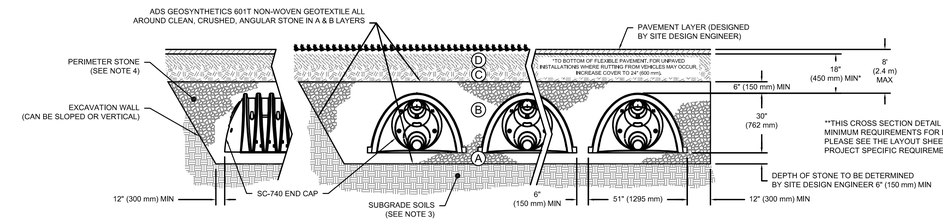
NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

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[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "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/FT/%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 SC-740 CROSS SECTION DETAIL

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Phone: (716) 842-3165

REVISIONS:

No.	Description	Date

Multi-Family Project

480 Dodge Road
Amherst, NY

STATE OF NEW YORK — R. CHRISTOPHER WOOD — LICENSED — 076394 — PROFESSIONAL ENGINEER

DRAWING NAME:
Storm Drainage Details

Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.
C-302

Project No: 22.296

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

1.b

Packet Pg. 599

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WATER NOTE LEGEND

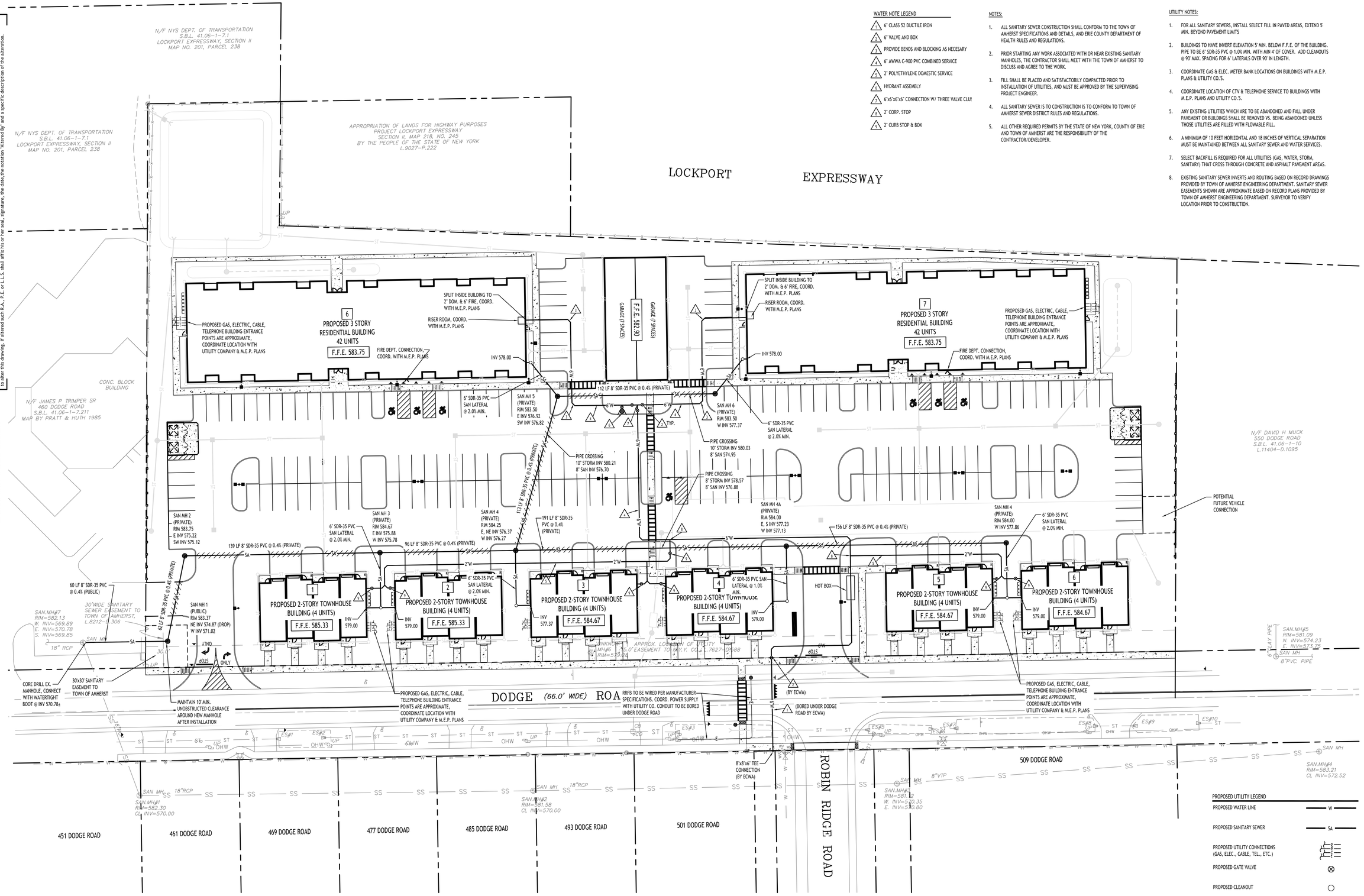
1. 6" CLASS 52 DUCTILE IRON
2. 6" VALVE AND BOX
3. PROVIDE BENDS AND BLOCKING AS NECESARY
4. 6" AWWA C-900 PVC COMBINED SERVICE
5. 2" POLYETHYLENE DOMESTIC SERVICE
6. HYDRANT ASSEMBLY
7. 6"x6"x6"x6" CONNECTION W/ THREE VALVE CLUS
8. 2" CORP. STOP
9. 2" CURB STOP & BOX

NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE TOWN OF AMHERST SPECIFICATIONS AND DETAILS, AND ERIE COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS.
2. PRIOR STARTING ANY WORK ASSOCIATED WITH OR NEAR EXISTING SANITARY MANHOLES, THE CONTRACTOR SHALL MEET WITH THE TOWN OF AMHERST TO DISCUSS AND AGREE TO THE WORK.
3. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO INSTALLATION OF UTILITIES, AND MUST BE APPROVED BY THE SUPERVISING PROJECT ENGINEER.
4. ALL SANITARY SEWER IS TO CONSTRUCTION IS TO CONFORM TO TOWN OF AMHERST SEWER DISTRICT RULES AND REGULATIONS.
5. ALL OTHER REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER.

UTILITY NOTES:

1. FOR ALL SANITARY SEWERS, INSTALL SELECT FILL IN PAVED AREAS, EXTEND 5' MIN. BEYOND PAVEMENT LIMITS
2. BUILDINGS TO HAVE INVERT ELEVATION 5' MIN. BELOW F.F.E. OF THE BUILDING. PIPE TO BE 6" SDR-35 PVC @ 1.0% MIN. WITH MIN 4' OF COVER. ADD CLEANOUTS @ 90' MAX. SPACING FOR 6" LATERALS OVER 90' IN LENGTH.
3. COORDINATE GAS & ELEC. METER BANK LOCATIONS ON BUILDINGS WITH M.E.P. PLANS & UTILITY CO.'S.
4. COORDINATE LOCATION OF CTV & TELEPHONE SERVICE TO BUILDINGS WITH M.E.P. PLANS AND UTILITY CO.'S.
5. ANY EXISTING UTILITIES WHICH ARE TO BE ABANDONED AND FALL UNDER PAVEMENT OR BUILDINGS SHALL BE REMOVED VS. BEING ABANDONED UNLESS THOSE UTILITIES ARE FILLED WITH FLOWABLE FILL.
6. A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
7. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH CONCRETE AND ASPHALT PAVEMENT AREAS.
8. EXISTING SANITARY SEWER INVERTS AND ROUTING BASED ON RECORD DRAWINGS PROVIDED BY TOWN OF AMHERST ENGINEERING DEPARTMENT. SANITARY SEWER EASEMENTS SHOWN ARE APPROXIMATE BASED ON RECORD PLANS PROVIDED BY TOWN OF AMHERST ENGINEERING DEPARTMENT. SURVEYOR TO VERIFY LOCATION PRIOR TO CONSTRUCTION.



N Utility Plan
SCALE: 1"=30'

END SECTION INVERTS:

ES#1	12" CMP	577.58
ES#2	12" CMP	578.35
ES#3	12" CMP	577.84
ES#4	12" CMP	~~578.33~~ INV 587.20
ES#5	12" CMP	578.66
ES#6	12" HDPE	578.57
ES#7	12" HDPE	578.45
ES#8	12" HDPE	578.71
ES#9	12" HDPE	578.56
ES#10	12" CMP	578.89

PROPOSED UTILITY LEGEND

- PROPOSED WATER LINE — W
- PROPOSED SANITARY SEWER — SA
- PROPOSED UTILITY CONNECTIONS (GAS, ELEC., CABLE, TEL., ETC.)
- PROPOSED GATE VALVE
- PROPOSED CLEANOUT
- INSTALL SELECT BACKFILL

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

30 0 30 60Ft.

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Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS: No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. per Town comments	7/21/23
3	Rev. per Town comments	12/8/23
4	Rev. per Town comments	1/12/24
5	Rev. per Town comments	1/18/24

STATE OF NEW YORK R. CHRISTOPHER WOOD 076396 LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Utility Plan

Date: 3/20
Drawn By: P. She
Scale: As No

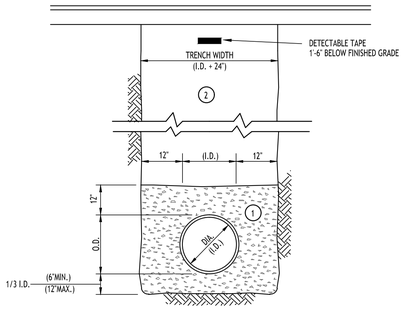
DRAWING NO.
C-400

Project No: 22.296

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6' LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

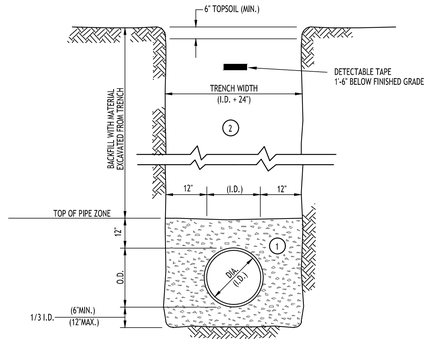
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6' LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

SEWER/WATERLINE TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

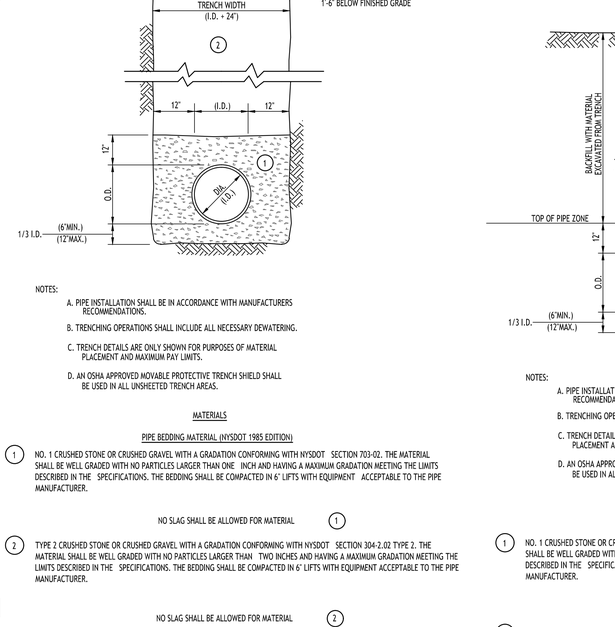
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6' LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6' LIFTS.

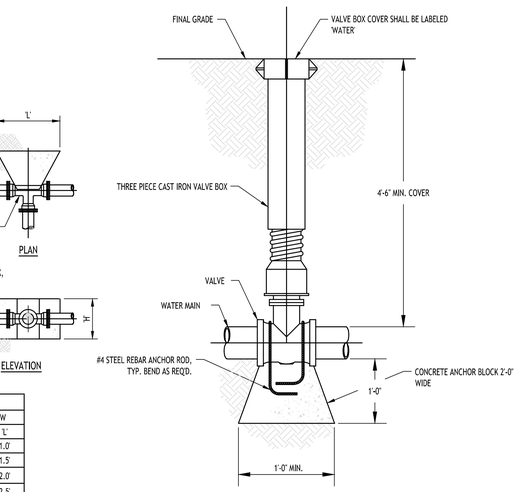
SEWER/WATERLINE TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



PRECAST CONCRETE DROP CONNECTION

NOT TO SCALE



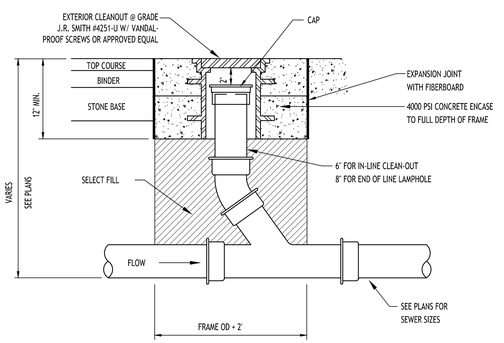
DIMENSION SCHEDULE									
PIPE SIZE	90° ELBOW		45° ELBOW		22.5° ELBOW		11.25° ELBOW	
	'H'	'L'	'H'	'L'	'H'	'L'	'H'	'L'
4"	1.5	2.0	1.0	2.0	1.0	1.0	1.0	1.0
6"	2.0	2.5	1.5	2.0	1.0	1.5	1.0	1.5
8"	2.5	3.5	2.0	2.5	1.5	1.5	1.0	2.0
10"	3.0	4.5	2.5	3.0	1.5	3.0	1.0	2.5
12"	3.5	5.0	3.0	3.5	2.5	2.5	1.5	2.5

DIMENSION SCHEDULE		
PIPE SIZE	TEE OR TAP SLEEVE	
····	'H'	'L'
4"	1.5	1.0
6"	1.5	2.5
8"	1.5	3.5
10"	2.5	3.5
12"	3.5	3.5

THRUST BLOCK SCHEDULE

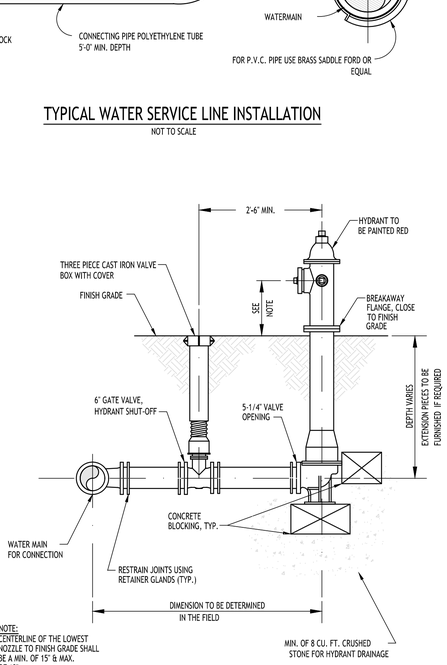
TYPICAL GATE VALVE DETAIL

NOT TO SCALE



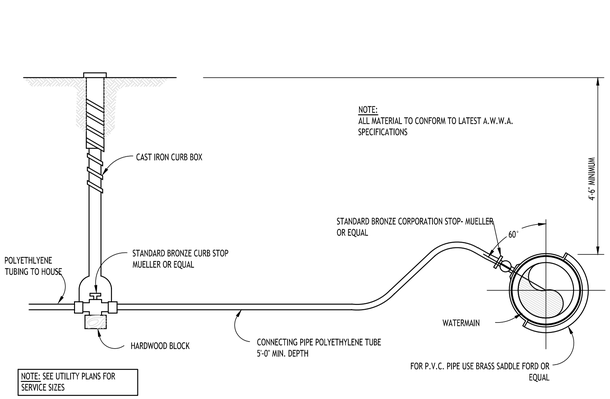
LAMPHOLE/CLEANOUT IN PAVEMENT/SIDEWALK

NOT TO SCALE



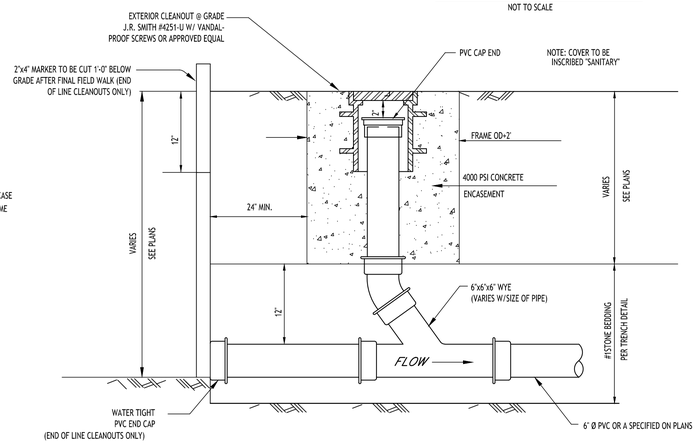
TYPICAL FIRE HYDRANT ASSEMBLY DETAIL

NOT TO SCALE



TYPICAL WATER SERVICE LINE INSTALLATION

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

NOT TO SCALE

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Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

STATE OF NEW YORK
R. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:

Utility Details

Date: 3/20
Drawn By: P. She
Scale: As No

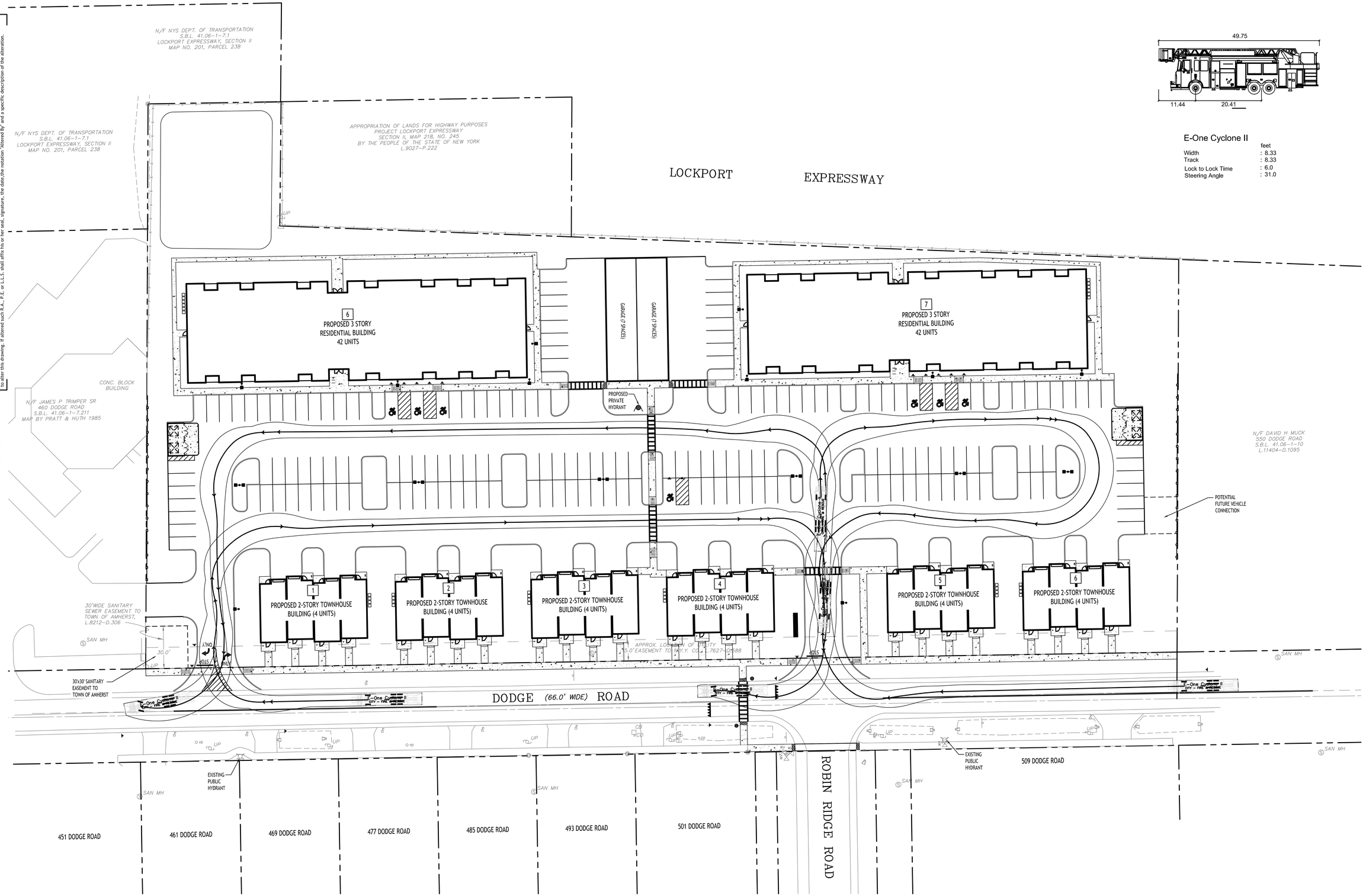
DRAWING NO.

C-401

Project No: 22.296

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E-One Cyclone II

	feet
Width	: 8.33
Track	: 8.33
Lock to Lock Time	: 6.0
Steering Angle	: 31.0

N

Fire Truck Plan

SCALE: 1"=30'

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

30' 30 0 30 60Ft.

CARMINAWOOD DESIGN
111 Bain Street, Suite 332
Greensboro, North Carolina 27406
Phone: (336) 937-9009
80 Sito City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date



DRAWING NAME:

Fire Truck Plan

Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.

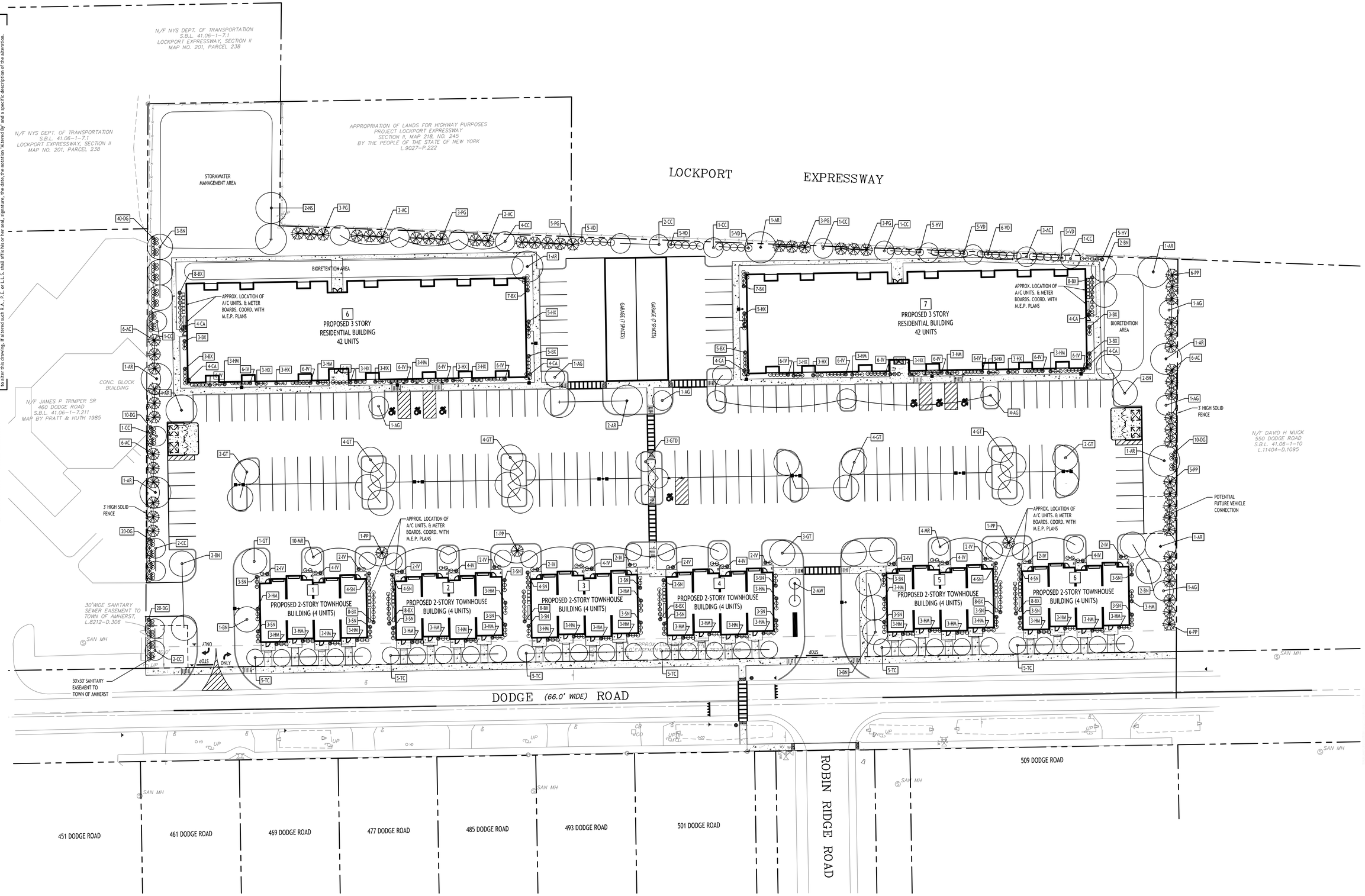
CF-100

Project No: 22.296

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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© CARMINA WOOD DESIGN



Landscape Plan

SCALE: 1"=30'

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

30' 30 0 30 60Ft.

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Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS: No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. townhouse layout	6/21/23
3	Rev. per Town comments	7/21/23
4	Rev. per Town comments	8/10/23
5	Rev. per Town comments	9/12/23

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
3765 Dodge Road, East Amherst, NY 14051-2113
Phone: 716-364-5564
RCWLandscapeArchitect@gmail.com

DRAWING NAME:

Landscape Plan

Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.

L-100

Project No: 22.296

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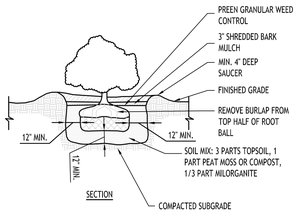
© CARMINA WOOD DESIGN

PLANTING SCHEDULE - 480 DODGE ROAD, AMHERST, NEW YORK

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
		DECIDUOUS TREES			
AG	10	ACER CAMPESTRE 'GREENSTREET'	GREENSTREET MAPLE	2-1/2" CAL. MIN.	B&B
AR	11	ACER RUBRUM 'AUTUMN RADIANCE'	AUTUMN RADIANCE RED MAPLE	2-1/2" CAL. MIN.	B&B
BN	15	BETULA NIGRA 'CULLY'	HERITAGE BIRCH	12' HIGH MIN.	B&B; MIN 3 MAJOR STEMS
GTD	3	GLEDITSIA TRIANCANTHOS INERMIS 'DRAVES'	STREET KEEPER HONEYLOCUST	2-1/2" CAL. MIN.	B&B
GT	24	GLEDITSIA TRIACANTHOS INERMIS "SKYCOLE"	SKYLINE THRONLESS HONEYLOCUST	2"-1/2 CAL. MIN.	B&B
NS	2	NYSSA SYLVATICA 'WILDFIRE'	WILDFIRE BLACK GUM	2"-1/2 CAL. MIN.	B&B
TC	30	TILIA CORDATA 'GLENLEVEN'	GLENLEVEN LITTLELEAF LINDEN	2-1/2" - 3" CAL.	B&B
		SMALL/ORNAMENTAL TREES			
AC	3	AMELANCHIER CANADENSIS	SERVICEBERRY	8' HT. MIN.	MIN. 3 MAJOR STEMS
CC	16	CRATAEGUS CRUSGALLI INERMIS ' CRUSZAM'	CRUSADER HAWTHORN	1-3/4" - 2" CAL.	B&B
MR	14	MALUS 'ROYAL RAINDROPS'	ROYAL RAINDROPS CRABAPPLE	1-3/4" -2" CAL.	B&B; RED FLOWER
MW	2	MAGNOLIA STELLATA 'WATERLILLY'	WATERLILY STAR MAGNOLIA	1-3/4" -2" CAL.	B&B; WHITE FLOWER
		EVERGREEN TREES			
AC	17	ABIES CONCOLOR**	CONCOLOR FIR	5' - 6' HT.	B&B; FULL TO GROUND
PG	16	PICEA GLAUCA**	WHITE SPRUCE	5'-6' HT.	B&B: FULL TO GROUND
PP	27	PICEA PUNGENS GLAUCA**	COLORADO BLUE SPRUCE	5'-6' HT.	B&B: FULL TO GROUND
		SHRUBS			
BX	92	BUXUS "GREEN MOUNTAIN"	GREEN MOUNTAIN BOXWOOD	24" HT.	NO. 3 CONT.
DG	100	DIERVILLA 'G2X88544'	KODIAK ORANGE DIERVILLA	24" HT.	NO. 5 CONT.
HV	10	HAMAMELIS VERNALIS	VERNAL WITCHHAZEL	24" HT.	NO. 5 CONT.
HM	108	HYDRANGEA MACROPHYLLA 'SMHMES14'	LET'S DANCE RYTHMIC BLUE HYDRANGEA	24" HT.	NO. 5 CONT.
HX	46	HYPERICUM X 'DEPPE'	SUNNY BOULEVARD HYPERICUM	24" HT.	NO. 3 CONT.
IV	132	ITEA VIRGINICA 'SMNIVDFC'	SCENTLANDIA SWEETSPIRE	24" HT.	NO. 3 CONT.
SN	73	SPIRAEA 'NCSX2'	DOUBLE PLAY DOOZIE SPIREA	24" HT.	NO. 1 CONT.
VD	31	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24" HT.	NO. 5 CONT.
		ORNAMENTAL GRASS			
CA	24	CALAMAGROSTIS X ACUTIFOLIA 'KARL FOERSTER'**	KARL FOERSTER FEATHER REED GRASS	NO. 3 CONT.	

*MEASURED FROM GROUND TO BOTTOM OF LEADER
**ORNAMENTAL GRASSES SHOULD BE PRUNED BACK IN LATE FALL OR EARLY SPRING TO ALLOW NEW FOLIAGE TO GROW IN SPRING

NOTES:
1. ALL PLANTING BEDS & TREE PITS SHALL RECEIVE A MIN. 3-INCH DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE CALLED OUT ON PLANS.

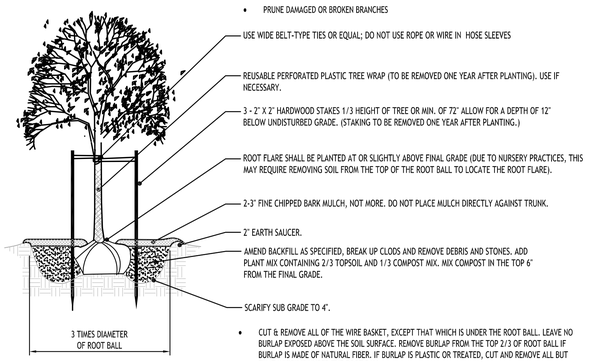


SHRUB PLANTING DETAIL

NOT TO SCALE

PLANTING NOTES:

1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SCREENED TOPSOIL. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.
5. EXISTING TREE LOCATIONS ARE APPROXIMATE, CONTRACTOR TO LOCATE ALL TREES WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION AND COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL TAKE RESPONSIBLE MEASURES TO PROTECT EXISTING TREES TO REMAIN FROM ANY POSSIBLE ROOT OR LIMB DAMAGE.
6. ALL ARBORVITAE PLANTINGS SHALL BE WRAPPED IN BURLAP DURING WINTER TIMES.



TOWN OF AMHERST TREE PLANTING DETAIL

NOT TO SCALE

CARMINAWOOD DESIGN
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111 Bain Street, Suite 332
Greensboro, North Carolina 27406
Phone: (336) 937-9009

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. townhouse layout	6/21/23
3	Rev. per Town comments	7/21/23
4	Rev. per Town comments	8/10/23
5	Rev. per Town comments	9/12/23



Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
2765 Dodge Road, East Amherst, NY 14051-2113
Phone: 716-364-5564
RCWLandscapeArchitect@gmail.com

DRAWING NAME:

Landscape Notes & Details

Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.

L-101

Project No: 22.296

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

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N/F NYS DEPT. OF TRANSPORTATION
S.B.L. 41.06-1-7.1
LOCKPORT EXPRESSWAY, SECTION II
MAP NO. 201, PARCEL 238

APPROPRIATION OF LANDS FOR HIGHWAY PURPOSES
PROJECT LOCKPORT EXPRESSWAY
SECTION II, MAP 218, NO. 245
BY THE PEOPLE OF THE STATE OF NEW YORK
L.9027-P.222

LOCKPORT EXPRESSWAY

6
PROPOSED 3 STORY
RESIDENTIAL BUILDING
42 UNITS

7
PROPOSED 3 STORY
RESIDENTIAL BUILDING
42 UNITS

GARAGE (7 SPACES)

GARAGE (7 SPACES)

1 PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS)
2 PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS)
3 PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS)
4 PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS)
5 PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS)
6 PROPOSED 2-STORY TOWNHOUSE BUILDING (4 UNITS)

APPROX. LOCATION OF UTILITY EASEMENT TO NIAGARA MOHAWK POWER CO. L.7629-P.388

DODGE (66.0' WIDE) ROAD

ROBIN RIDGE ROAD

461 DODGE ROAD
469 DODGE ROAD
477 DODGE ROAD
485 DODGE ROAD
493 DODGE ROAD
501 DODGE ROAD
509 DODGE ROAD

SAN MH
SAN MH
SAN MH

ONEY
ATND
30.0'
20.5'

POTENTIAL FUTURE VEHICLE CONNECTION

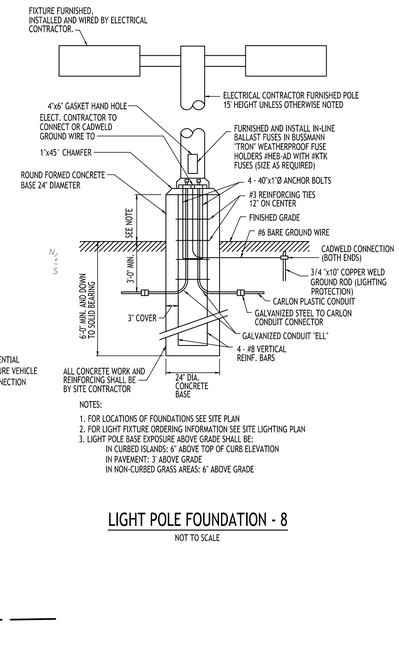
Lighting Plan
SCALE: 1"=30'

Luminaire Schedule			
Symbol	Qty	Label	Description
	23	S1	Gardco OPF-S-A04-830-T3M

Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
Surfcwe	Illuminance	Fc	1.41	12.3	0.0

NOTE: PHOTOMETRICS PREPARED BY LIGHTSPEC, LLC. CONTACT DAVID SURIANI FOR PRICING (716) 880-0157





LIGHT POLE FOUNDATION - 8
NOT TO SCALE

NOTE:

1. ALL SITE LIGHTING TO BE DARK SKY COMPLIANT AND FIXED AT 90 DEGREES. LIGHT POLES TO BE MOUNTED AT 15 FT.

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

30 0 30 60Ft.
30'

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80 Sito City Row, Suite 100
Buffalo, New York 14203
Phone: (716) 842-3165

Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. per updated layout	7/21/23
3	Clubhouse removed, townhouse added	8/22/25

STATE OF NEW YORK
C. CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

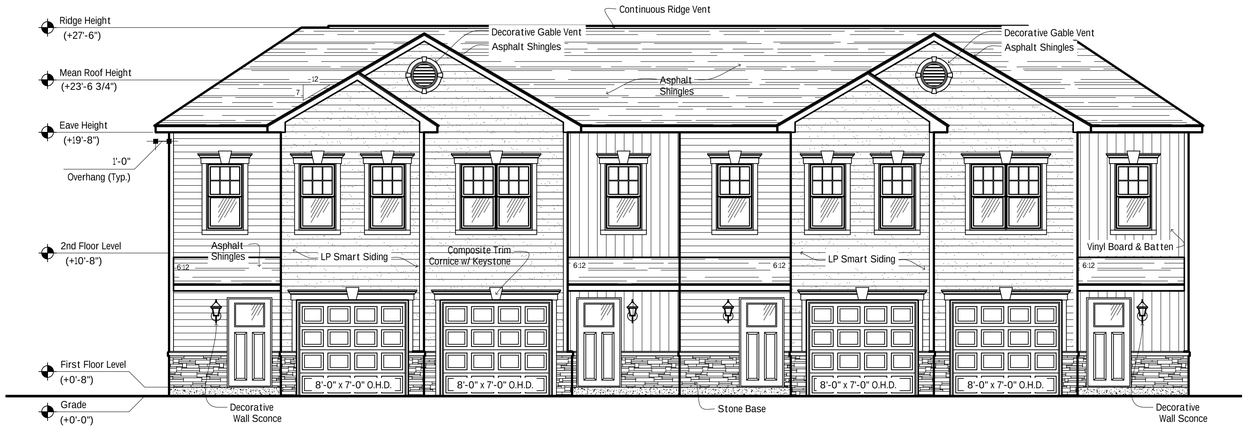
DRAWING NAME:
Lighting Plan

Date: 3/20
Drawn By: P. She
Scale: As No

DRAWING NO.
LP-100

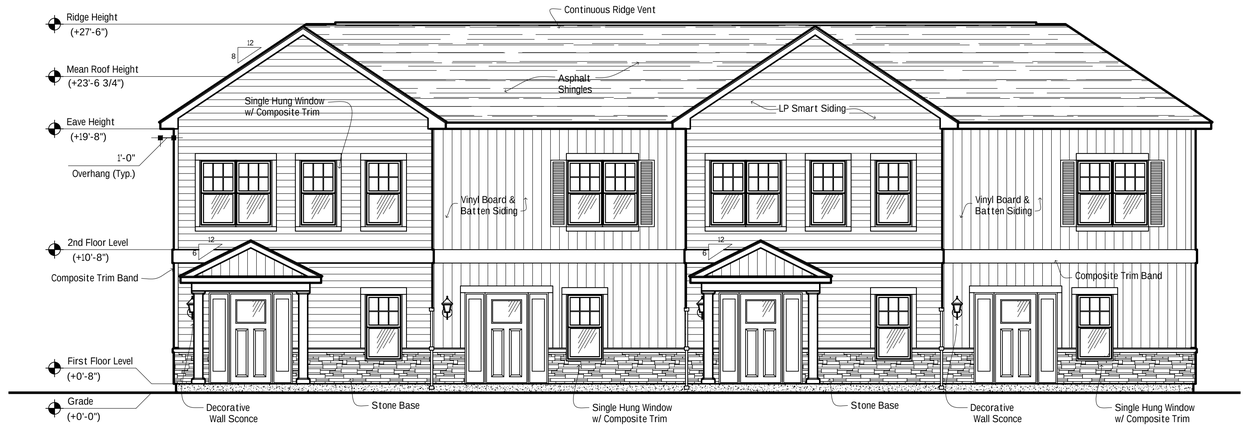
Project No: 22.296

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



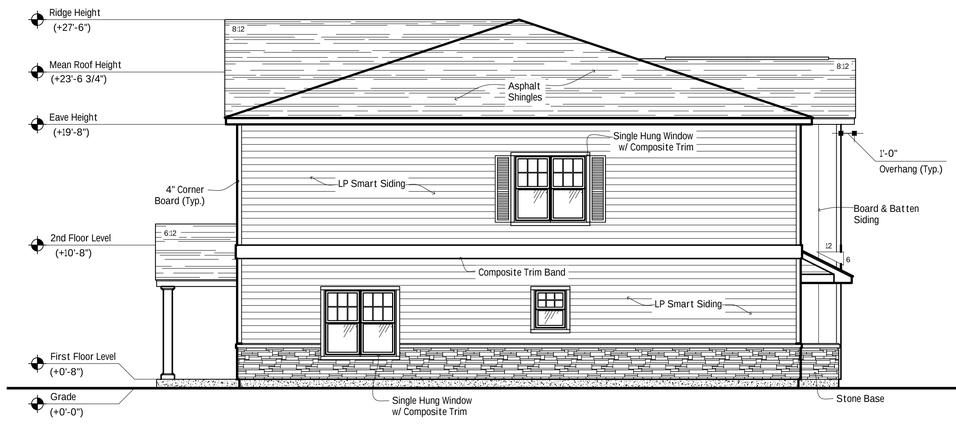
Front Elevation

3/16" = 1'-0"



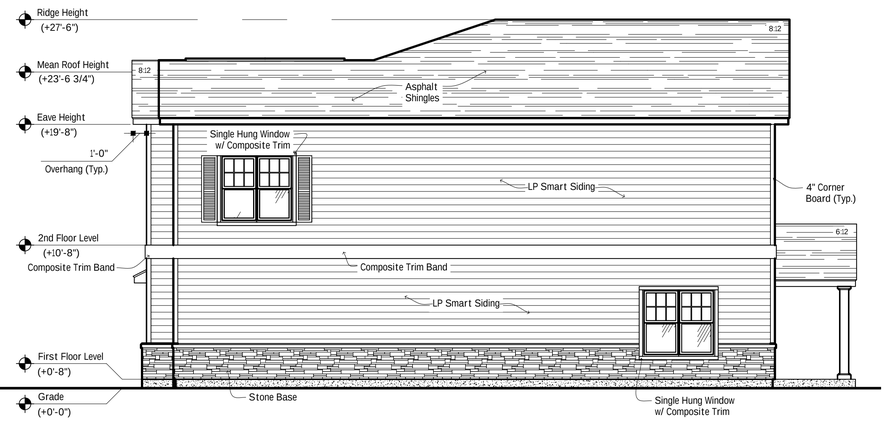
Rear Elevation

3/16" = 1'-0"



Left Side Elevation

3/16" = 1'-0"



Right Side Elevation

3/16" = 1'-0"

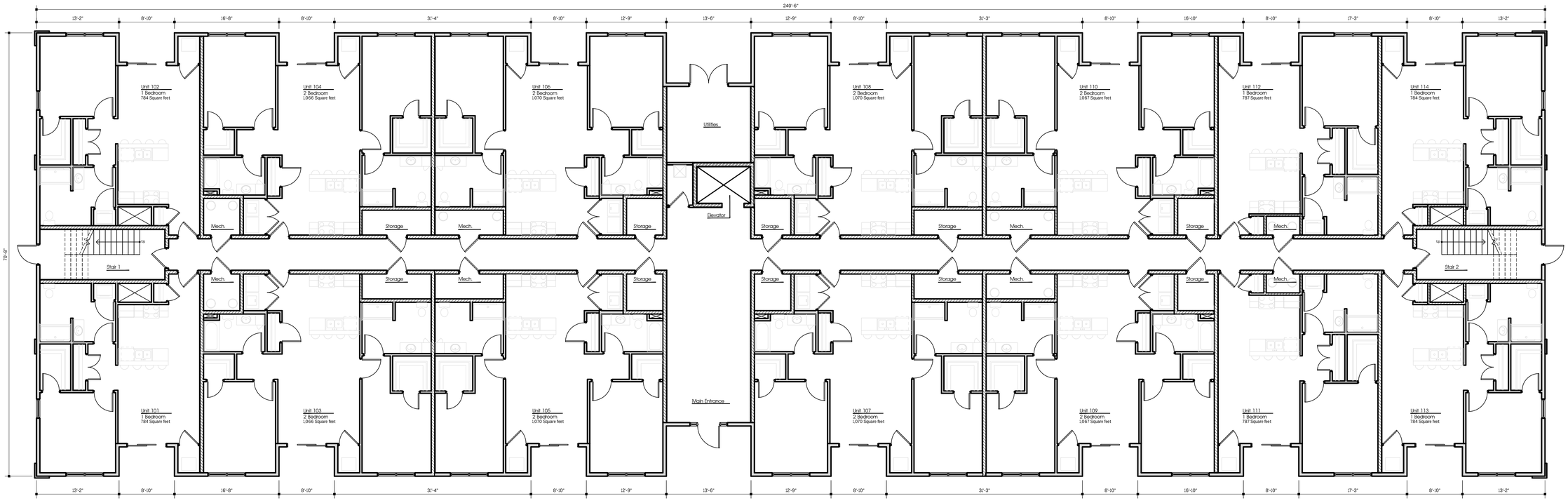
4 Unit Townhouse Concept Elevations

Dodge Road
Getzville, NY
5/15/2023

THE GREEN ORGANIZATION

SUTTON architecture "Design 2 Build"

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Concept First Floor Plan

Second and Third Floors Similar

1/8" = 1'-0"

Green Organization - Multi-Family Concept Plan

480 Dodge Road Getzville, NY

8/20/2025

SUTTON architecture

"Design 2 Build"

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)



Concept South Elevation

1/8" = 1'-0"



Concept West Elevation

1/8" = 1'-0"



Concept East Elevation

1/8" = 1'-0"



Concept North Elevation

1/8" = 1'-0"

Green Organization - Multi-Family Concept Elevations

480 Dodge Road Getzville, NY

8/20/2025

SUTTON architecture "Design 2 Build"

Attachment: SP-2023-05_A_drawings_101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Amherst

Town of Amherst Planning Department *Erie County, New York*

Brian J. Kulp
Supervisor

Daniel C. Howard P
Planning Direc

Daniel J. Ulatowski P
Assistant Planning I or

Attachment: SP-2023-05A signed neg dec 101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

SEQR
Negative Declaration

OCT 23 2025 PM2

NOTICE OF DETERMINATION OF NON-SIGNIFICANCE

Lead Agency: Town of Amherst Planning Board

Project: SP-2023-05_A

Address: 5583 Main Street
Williamsville, NY 14221
(716) 631-7051

Date: October 16, 2025

This notice is issued pursuant to Part 617 and Local Law #3-82, as amended, of the implementing regulations pertaining to Article 8 (State Environmental Quality Review) of the Environmental Conservation Law.

The Lead Agency has determined that the proposed action described below will not have a significant adverse effect on the environment.

Title of Action: Site Plan Review

SEQR Status: Unlisted Action

Description of Action: A proposed 108-unit residential development consisting of two 3-story apartment buildings of 42 units each, six 2-story townhome buildings with 4 units each, and 255 parking spaces (including 203 surface spaces and 38 garage spaces), stormwater management facilities, landscaping and other ancillary site improvements. Work will include the site improvements not specifically stated above, including, stormwater, utilities, grading, lighting, paving, and landscaping.

Location: 468-496 Dodge Road, Amherst, Erie County

Petitioner: The Green Organization

OCT 23 2025 PM2:

Reasons Supporting This Determination

Based on information submitted by the applicant including a Full Environmental Assessment Form (EAF) - Part I, (as amended), Part 2 and a complete site plan application, a preliminary staff analysis was undertaken. Compared to the criteria listed in Section 617.7, all indications are that this action will not have a significant impact on the environment, as follows:

1. The project is not expected to cause a substantial adverse change in existing air quality, ground or surface water quality or quantity, or noise levels; a substantial increase in solid waste production; or a substantial increase in the potential for erosion, flooding, leaching or drainage problems. The Engineering Department – Engineering Services Division on September 29, 2025 and Engineering Department – Sanitary Division on October 9, 2025 reviewed the Grading, Drainage and Utility Plans submitted on August 22, 2025 and September 26, 2025, Engineer's Report submitted on August 22, 2025 and September 26, 2025, and Erosion Control Plan submitted on August 22, 2025. Based on its review of these documents, the Department has determined that the project has or will have met all applicable requirements and has no objection to its approval.

2. The project will not result in the removal or destruction of large quantities of vegetation or fauna; or in significant adverse impacts to fish or wildlife species, habitats or other natural resources. The subject site is currently developed as a retail nursery and garden center and does not contain protected wildlife species or habitat. Approximately 2.5± acres of existing vegetation will be removed to accommodate the proposed residential development. The Planning Department also reviewed a Landscape Plan submitted on September 26, 2025 and determined that it meets or exceeds Zoning Ordinance requirements for greenspace. The Landscape Plan has or will have met all Zoning Ordinance and Town requirements for landscaping.

3. The project is not expected to create any substantive conflict with the Town Comprehensive Plan. The Planning Department in their review of October 15, 2025, the Zoning Enforcement Officer in his review of October 15, 2025 has reviewed the application documents and Building Department in their review of September 26, 2025 has reviewed the application documents and determined that the subject project has or will have met all NYS Building Code – 2020 and Zoning Ordinance regulations.

4. The project is within an area identified by the State as having potential archaeological or historical significance, and the NYS Office of Parks, Recreation and Historic Preservation has reviewed the previously approved project and, as stated in their letter of April 12, 2023 determined that there will be no impact on these resources.

Attachment: SP-2023-05A signed neg dec 101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

OCT 23 2025 PM2:

5. The project will not impair the character or quality of important aesthetic resources or of existing community or neighborhood character. The project is located in the New Community District - General Commercial (NCD-GC) zoning district where multi-family dwellings are permitted; neighboring uses are residential and commercial and zoned NCD-GC and NCD-ND; therefore, the project is consistent with surrounding land use.

6. The proposed subject development will include 108 multi-family dwelling units in apartment buildings and townhomes, which will not cause a major change in the use of either the quantity or type of energy.

7. The project will not create any hazard to human health. The Fire Chief's Association on September 23, 2025, has reviewed the project and has no objection to the approval of the site plan, as all requirements of this agency has or will have been met.

8. The project will cause a substantial change in the use, or intensity of use, of land. The townhomes fronting along Dodge Road will be generally consistent with the scale of surrounding residential land uses, and the apartment buildings located on the rear portion of the property will be generally consistent with other multi-family developments within the Audubon New Community.

9. The construction of 108 apartments will increase the number of people using the site over its previous level of use, however the site is designed to adequately support demand for the proposed number of residents and all required road and utility infrastructure will be in place to accommodate the development.

10. Review of the Traffic Trip Generation Comparison Memo prepared by Passero Associates submitted to the Planning Department on September 26, 2025 and reviewed by the Town Traffic/Safety Board on October 1, 2025 and NYSDOT on October 1, 2025 indicates that significant negative traffic impacts are not expected to result from the proposed project.

11. A coordinated review of the project has been undertaken by Town Departments including, in addition to those mentioned above, Highway on September 18, 2025, Assessor on October 1, 2025, Plumbing Division on September 30, 2025, and Right-of-Way Agent on October 7, 2025. These reviews did not identify any potential significant adverse environmental issues and indicated that the proposal will not have a significant damaging impact on the environment.

12. Issues not specifically mentioned above and/or those not specifically reviewed were not raised by Town departments, outside agencies or the public and are not determined to cause significant negative environmental impacts.

Attachment: SP-2023-05A signed neg dec 101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

OCT 23 2025 PM2:

Planning Board Approval
Moved by: O'Rourke; Second by: Kahn; Ayes 5; Noes 0; Absent 2 (Penberthy, Raffaele)

James Quinn, Assistant Planner — Date: 10-21-25

Michael J. Chmiel, Planning Board Chair — Date: 10/23/25

JQ/ac
X:\Current_Planning\Files\Site Plans\2023\SP-2023-05_A_(468-496_Dodge_Rd_NCD)_2025\SP-2023-05_A_neg dec_101625.doc
cc: Amherst Building Department
ECDEP
ECDPW - Highways
NYSDOT
Patrick Sheedy, Carmina Wood Design, 80 Silo City Row, Buffalo, NY 14203
Sean Hopkins, Hopkins Sorgi & McCsrthy, 35 California Rd., Suite 100, Williamsville NY 14221
David Sutton, Sutton Architecture, 5409 Main St., 2nd Floor, Williamsville, NY 14221
Matt Green, The Green Organization, 6465 Transit Rd., E. Amherst, NY 14051

Attachment: SP-2023-05A signed neg dec 101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION (NCD)
SP-2023-05_A

PETITIONER

The Green Organization
c/o Sean Hopkins, Esq.
Hopkins Sorgi & McCarthy
35 California Road, Suite 100
Williamsville, New York 14221

PROPERTY LOCATION

468-496 Dodge Road

OCT 23 2025 PM2

Attachment: SP-2023-05A signed resolution 101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

WHEREAS the Town of Amherst Planning Board on Thursday, October 16, 2025 held a public hearing on a site plan for the proposed 108-unit residential development consisting of two 3-story apartment buildings of 42 units each, 6-townhouse structures of 4 units each and

WHEREAS the Planning Board has reviewed the plans and specifications for the proposed project, and

WHEREAS the Site Plan has been referred to the Town's various review agencies and they have made findings on this project, and

WHEREAS in accordance with Sections 8-7-8 of the Zoning Ordinance, the Planning Board finds that:

A. The site plan will include usable space for active and passive recreation, and includes pedestrian connections to such opportunities.

B. The site plan does not include open space lands for public ownership and use offered for dedication or other disposition to the Town or other public entity.

C. School sites and facilities are adequate to accommodate the proposed site plan.

D. The site plan does not include the extension of roadways to adjacent property.

WHEREAS in accordance with Sections 8-7-9 of the Zoning Ordinance, the Planning Board finds that:

1. The proposed site plan is consistent with the intent, objectives and specific requirements of the Zoning Ordinance, specifically those of the New Community District, Section 5-2.

2. The proposed site plan is in conformity with the Approved Development Plan for the Audubon New Community.

3. Adequate services and utilities are or will be available prior to occupancy, and

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION (NCD)
SP-2023-05_A

PETITIONER

The Green Organization

PROPERTY LOCATION

468-496 Dodge Road

OCT 23 2025 PM2:

4. Review by the US Army Corps of Engineers under Section 404 of the Clean Water Act may be waived because the parcel is developed.

5. 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.

6. The Site Plan is consistent with all other applicable laws.

NOW THEREFORE BE IT RESOLVED that in accordance with 6 NYCRR, Part 617 and Local Law #3-82, as amended, the Planning Board has issued a Negative Declaration attached hereto, and

NOW THEREFORE BE IT FURTHER RESOLVED that the Planning Board, in accordance with Section 8-15-9 of the Zoning Ordinance, approves said Site Plan, subject to the following conditions:

1. 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 and enclosure shall be high enough to enclose entire dumpster within.

2. 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.

3. That the concern raised related to the property dimensions by the Town of Amherst Assessors Office be addressed to the satisfaction of the Town Assessor.

4. That the concerns about lighting at Dodge and Robin Roads raised by the Amherst Traffic Safety Board of its letter dated October 1, 2025 be addressed to the satisfaction of that Board.

5. That the requirements in the Town of Amherst Planning Department letter dated October 7, 2025 raised by the Zoning Enforcement Officer and Planning Department staff be addressed to the satisfaction of the Officer and staff.

Attachment: SP-2023-05A signed resolution 101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

TOWN OF AMHERST
PLANNING BOARD
SITE PLAN RESOLUTION (NCD)
SP-2023-05_A

PETITIONER

The Green Organization

PROPERTY LOCATION

468-496 Dodge Road

OCT 23 2025 PM2:

6. That the requirements of the Town of Amherst Engineering Department – Engineering Services Division letter dated September 29, 2025 be addressed to the satisfaction of that division.

7. That the requirements of the Town of Amherst Engineering Department – Sanitary Division letter dated October 9, 2025 be addressed to the satisfaction of that division.

8. That any concerns raised by the Town of Amherst Stormwater Management Officer be addressed to the satisfaction of the officer.

9. That a Rectangular Rapid Flashing Beacon (RRFB) be paid for and installed by the petitioner on Dodge Road at Robin Ridge Road, under a permit by ECDPW.

10. That the petitioner obtain any required permits for work within the Dodge Road right-of-way from the ECDPW – Highways Division.

11. That the petitioner work with the Planning Department Staff to provide on site usable space for action and passive recreation.

The foregoing resolution was adopted by the Town of Amherst Planning Board, October 16, 2025; moved by O'Rourke; seconded by Davis; ayes 5; noes 0; absent 2 (Penberthy, Raffaele).

Michael J. Chmiel, Planning Board Chair

10/23/25
Date

JQ/ac
X:\Current_Planning\Files\Site Plans\2023\SP-2023-05_A_(468-496_Dodge_Rd_NCD)_2025\SP-2023-05_A_resolution_101625.doc

cc: Commissioner of Building
Town Engineer
Fire Chiefs
Traffic/Safety Coordinator
Highway Superintendent

Approved Plan: Carmina Wood Design
Received: September 26, 2025

Patrick Sheedy, Carmina Wood Design, 80 Silo City Row, Buffalo, NY 14203
Sean Hopkins, Hopkins Sorgi & McCsrthy, 35 California Rd., Suite 100, Williamsville NY 14221
David Sutton, Sutton Architecture, 5409 Main St., 2nd Floor, Williamsville, NY 14221
Matt Green, The Green Organization, 6465 Transit Rd., E. Amherst, NY 14051

Attachment: SP-2023-05A signed resolution 101625 (30837 : SP-2023-05_A , 468-496 Dodge Road)

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

ADOPTED

Meeting: 10/16/25 06:30 PM
Department: Planning
Category: Rezoning and Relief from Conditions of Rezoning
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 30975

PLANNING BOARD ITEM (ID # 30975)

Request for Relief of Conditions of Rezoning Approval, Z-2007-03_A

Property located at 330 Maple Road
716 Sports Complex LLC, Petitioner

The petitioner is requesting that conditions/restrictions imposed as part of the Town Board's approval of June 2, 2008 for the rezoning of 28.11 acres of land from CF to GB (Z-2007-03) be amended or deleted to allow for the potential future use of the site for a Sports Complex containing 500,000 ± sq. ft. of building area, that is comprised of two domed indoor sports venues that are 137,500 sq. ft. each (500 feet long, 275 feet wide and 100 feet in height), a 2 story 50,000 sq. ft. commercial/retail building that connects the two domes and a free standing 5 story, 175,000 sq. ft. hotel with 150 rooms.

The petitioner is proposing to remove the previous restrictions below:

- The creation of a 4.5-acre conservation project area, 101 feet in depth, fronting Maple Road on property described in Schedule "B"
- The Brownfield Cleanup Program will be instituted in a manner that results in the project site being cleaned to New York State Department of Environmental Conservation residential standards
- No single retail user shall be greater than 50,000 square feet in size.
- A maximum building height limitation of 50 feet for any structure.
- No freestanding drive-thru fast-food restaurants.
- No freestanding drive-thru pharmacies.
- Petitioners, their successors and assigns agree to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

The petitioner is proposing the following new restrictions to replace the restrictions to be deleted:

- There shall be a 101 ft. wide conservation area located along the Maple Road frontage of the Project Site ("Conservation Area"). There shall not be any buildings or parking spaces located in the Conservation Area. The only development permitted in the Conservation Area shall consist of driveway connections to Maple Road and improvements necessary for the development of the Project Site.
- The Declarant shall comply with the requirements imposed by the NYS Department of Environmental Conservation relative to the Brownfield Clean Up Program in connection with the development of the Project Site.
- No freestanding drive-thru fast food restaurants shall be permitted on the Project Site.
- No freestanding drive-thru pharmacies shall be permitted on the Project Site.

- The Declarant agrees to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However,

this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

Brian McGrath, 4225 Genesse Street; Marc Fineberg, 208 S. Cayuga Road; and Sean Hopkins, Esq., Hopkins Sorgi & McCarthy, represented the petitioner, explained the proposal and were available to answer questions from the Board. David Johnson, LaBella Associates was also present.

In response to the Board's questions, Mr. Hopkins stated there would be drainage issues if the project were built into the ground to keep the height lower, the proposed complex would be built 330' from the south side of Maple Road, a downstream sewer capacity analysis will be done during the site plan process and this project is being proposed by private investors. Mr. Johnson stated there are approximately 14 domes of similar size and height in NYS and the domes are built for our weather conditions. Mr. McGrath stated that building a similar complex as a solid structure would triple the cost.

Donalad Lawrence, 22 Coolidge Avenue, Lockport, NY; Dan Ryder, 38 Garden Parkway; Kelsey Ryan, 34 Coolidge Drive; Rebecca Hussak, 395 Dodge Road; Ed Greenway, 65 Laurie Lea; Jason Bibler, 231 Walton Drive; Steven McDonald, 17 Crystal Springs Lane; Cheryl Patterson, 365 Maple Road; Bill Maher, 215 Louvane Drive; Doug Hoffsass, 5933 Main Street; Karin Genevies, 30 Belvoir Road; Britton Mann, 1300 Elmwood Avenue; Darren Prestley, 712 Ashland Avenue, Buffalo, NY; Robert Fox, 8966 Woodview Drive, Colden, NY; and Dan Gronkowski, 337 North Rockingham Way spoke in favor of the proposal.

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

Following discussion, Mr. Davis moved to approve the request based on the resolution. The motion was seconded by Mr. Gill and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

ATTACHMENTS:

- Z-2007-03_A application 101625 (PDF)
- Z-2007-03_A drawing 101625 (PDF)
- Z-2007-03_A Amended Rezoning application 101625 (PDF)
- Z-2007-03A signed resolution 101625 (PDF)

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

Application for Relief of Restrictions
Portion of 330 Maple Road
Applicant: 716 Sports Complex, LLC

Hopkins Sorgi & McCarthy PLLC
c/o Sean Hopkins, Esq.
Williamsville, NY 14221
Tel: 510-4338
E-mail: shopkins@hsmlegal.com

TOWN OF AMHERST PLANNING DEPARTMENT

Application for Rezoning

For Official Use

File #: _____ **Acreage** _____ **Fee $** $1,215.00

Address Verified by Assessor's Office _____ VERIFIED BY DATE

Application Received by Planning Department _____ ACCEPTED BY DATE

Materials Checked by Zoning Enforcement Officer _____ CHECKED BY DATE

Materials & Fee Paid to Town Clerk _____ ACCEPTED BY DATE

		Fill In Applicable Fees
2 ACRES OR LESS		_____
2 – 20 ACRES **$1,250 + $250/acre or fraction thereof over 2 acres** (fractions of an acre to be counted as 1 acre)		_____
21 – 30 ACRES **$5,700 + $150/acre or fraction thereof over 21 acres** (fractions of an acre to be counted as 1 acre)		_____
OVER 30 ACRES **$6,900 +$75/acre or fraction thereof over 30 acres** (fractions of an acre to be counted as 1 acre)		_____
Request for Relief of / Change to Conditions of Zoning Approval	$1,200.	$1,200.00
AFFIDAVIT FEE FOR PUBLIC HEARING	$15.	$15.00
TOTAL FEE:		$ 1,215.00

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

TO BE COMPLETED BY APPLICANT

1. **Petitioner:** Name: 716 Sports Complex, LLC

Address: c/o Sean Hopkins, Esq., Hopkins Sorgi & McCarthy PLLC
35 California Drive, Suite 100
Williamsville, New York 14221
City State Zip Code

Phone: 716.510-4338 Fax:

E Mail shopkins@hsmlegal.com

2. **The undersigned hereby petitions the Honorable Town Board to rezone the following described property**

From: Not Applicable. District

To: District

3. **Street address of land to be rezoned:** (must be verified by Town Assessor's Office)

Portion of 330 Maple Road

SBL #: SBL No. 55.03-1-10

4. **Area of land to be rezoned** (in acres): Not Applicable

5. **Owner of Land**:

Name: Town of Amherst

Address: 5583 Main Street, Williamsville, NY 14221

Telephone: 716.510-4338

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

Name: Sean W. Hopkins, Esq.

Address: 5500 Main Street, Suite 343
Williamsville, New York 14221
Tel: 716.510-4338 - E-mail: shopkins@hsmlegal.com
City State Zip Code

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

7. **Petitioner's interest in property**

_____ Option to purchase

__X__ Owner

_____ Other (explain)

[Note: Authorization Resolution adopted by the Town Board on September 30, 2025. A copy of the resolution adopted by the Town Board is provided at Exhibit "14".]

8. **The following are all others having an interest in this application and join herein with the petitioner named above:** (describe extent of interest; attach sheets as needed)

Not Applicable.

9. **Attach Survey and Legal description of land to be rezoned. The Survey must be prepared by a New York State Licensed Land Surveyor.**

See attached Exhibits "2" and "3".

10. **Said property has the following deed restrictions or Covenants:** (attach copy) -

Liber 11467 Page 0967

A copy of the recorded Declaration of Restrictions is attached as Exhibit "4".

11.

Information on proposed project:

A. Description of the character of the proposed development:

See Exhibit 5

B. Rationale for rezoning request:

1. Why was this site chosen?

See Exhibit 5.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2. Why cannot land be used with the existing zoning?

Not Applicable

3. How will this rezoning impact surrounding properties?

Not Applicable

4. How will this rezoning impact the school system?

Not Applicable..

12. Quantitative Data:

A. Total # of dwelling units Not Applicable

B. Distribution of dwelling units by type _____

C. Gross Residential Density per acre _____

D. Total amount of Open Space Approximately 6 acres

E. Proposed Non-Residential Floor Area 675,000 SF

[Note: A copy of the Concept Plan for the proposed project is provided at Exhibit "7".]

13. Development Schedule:

Start Spring 2026

Finish Spring 2028

Stages (# of) 2

14. If any portion of the proposed development is planned to be sold or leased, please describe:

Portions of space will be leased to third parties.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

15. Open Space ownership and maintenance provisions (if applicable):

Greenspace and landscaping will be privately owned and maintained.

16. Basis for Findings (Sec. 8-3-5 of the Town Zoning Code) (Attach sheets and supplemental materials as necessary.)

A. <u>The proposed zoning and development plan must be generally consistent with the policies of the Comprehensive Plan and the Town Zoning Ordinance.</u>

1. State in detail why the proposed zoning is consistent with the adopted Town of Amherst Bicentennial Comprehensive Plan. Cite specific sections, maps, and/or figures in the plan that support the proposed zoning at this location (The Comprehensive Plan document is available at the Planning Department, Town Clerk's Office, Amherst libraries, or at www.amherst.ny.us). Add sheets as needed.

See Exhibit 6.

2. Pursuant to NYS Town Law Section 272a(11), "all Town land use regulations must be in accordance with a comprehensive plan adopted pursuant to this Section." The Town Board adopted the Comprehensive Plan pursuant to NYS Town Law 272 on January 2, 2007. If the rezoning is approved, the Town Board may require the Plan to be amended, as applicable.

Cite all text, map, and / or figures that must be amended to support the proposed zoning at this location (attach pages as necessary) and provide detailed suggested amendments.

See Exhibit 6.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

3. State why the proposed zoning is consistent with intent and objectives (Sec. 1-2-2) of the Zoning Ordinance:

See Exhibit 6.

B. Adequate Services and Utilities are available or are proposed to be made available with the construction of the development:

1. Sanitary Sewer
   Yes.
2. Storm Sewer/Drainage
   Yes.
3. Water
   Yes.
4. Other Yes.

C. Compatibility with the present zoning and conforming uses of nearby property and with the character of the neighborhood:

See Exhibit 6.

D. Suitability of the subject property for uses permitted by the current versus the proposed district:

See Exhibit 6.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

E. Whether the proposed change tends to improve the balance of uses, or meets a specific demand in the Town:

See Exhibit 6.

17. The petitioner encloses herewith the sum of $ 1,215.00 to pay the fee, and consents to the placement of a sign(s) at the described location identifying this request for a period of time to be determined by the Town Clerk.

18. The undersigned certifies that all information required to be disclosed pursuant to Section 809 of the General Municipal Law (see below) is as follows:

The undersigned swears or affirms that all statements made herein are true, that all drawings submitted correctly show the situation involved in this petition.

[Note: Authorization Letter of Property Owner signed attached as Exhibit "1".]

Signature of Petitioner

Subscribed and sworn to before me this 2 day of October, 20 25

Notary Public, Erie County, New York

KERI L LICKFELD
NOTARY PUBLIC, STATE OF NEW YOR
Registration No. 01LI6413185
Qualified in Erie County
Commission Expires January 19, 202

N.Y.S. General Municipal Law - Section 809 Disclosure in certain applications:

1. Every application, petition or request submitted for a variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provision of any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state office or any office or employee of such municipality or of a municipality of which such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2. For the purpose of this section an officer or employee shall be deemed to have an interest in the applicant when he, his spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them

   (a) is the applicant, or
   (b) is an officer, director, partner or employee of the applicant, or
   (c) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
   (d) is a party to an agreement with such an applicant, express or implied, whereby he may receive any payment or other benefit, whether or not for services rendered, dependent or contingent upon the favorable approval of such applicant, petition or request.

3. In the county of Nassau the provisions of subdivisions one and two of this section shall also apply to a party officer. "Party Officer" shall mean any person holding any position or office, whether by election, appointment or otherwise, in any party as defined by subdivision four or section two of the election law.

4. Ownership of less than five per cent of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.

5. A person who knowingly and intentionally violates this section shall be guilty of a misdemeanor.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 1

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: 716 Sports Complex and Hotel		
Project Location (describe, and attach a general location map): Portion of 330 Maple Road [SBL No. 55.03-1-10]		
Brief Description of Proposed Action (include purpose or need): The proposed project consists of two (2) indoor dome sports complexes, each 275 ft x 500 ft totalling 275,000 sf, a 2-story, 50,000 sf commerical/retail building and a 75,000 sf five (5) story hotel. Development includes associated parking, internal roadways, pedestrian walkways, lighting, landscaping, and utility infrastructure. The action has been defined broadly to include all proposed site improvements and all required discretionary approvals and permits needed from municipal boards of the Town of Amherst and involved agencies. The proposed action is a Type I action pursuant to SEQRA and as such the Project Sponsor is requesting that the Town of Amherst conduct a coordinated environmental review pursuant to SEQRA.		
Name of Applicant/Sponsor: 716 Sports Complex, LLC c/o Sean Hopkins, Esq.	Telephone: 716.510-4338 E-Mail: shopkins@hsmlegal.com	
Address: 35 California Drive, Suite 100		
City/PO: Williamsville	State: NY	Zip Code: 14221
Project Contact (if not same as sponsor; give name and title/role):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Town of Amherst	Telephone: E-Mail:	
Address: 5583 Main Street		
City/PO: Williamsville	State: NY	Zip Code: 14221

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	Application for Relief of Zoning Conditions	October 2, 2025
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Site Plan Approval	October 2025
c. City, Town or Village Zoning Board of Appeals ☑Yes ☐No	Zoning Board of Appeals - Area Variances	October 2025
d. Other local agencies ☑Yes ☐No	IDA - PILOT	To be Determined
e. County agencies ☑Yes ☐No	ECDPW - Highway Work Permit	To be Determined
f. Regional agencies ☐Yes ☐No		
g. State agencies ☑Yes ☐No	NYSDEC - SPDES and DSCA	October 2025
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):

Remediaton Sites:C915207, 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: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No

If Yes, what is the zoning classification(s) including any applicable overlay district?

A 100-foot width of property frontage along Maple Road is zoned Recreation Conservation District (RC), while the remainder of the property is General Business (GB).

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Amherst Central School District

b. What police or other public protection forces serve the project site?

Town of Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?

Volunteer Fire Department

d. What parks serve the project site?

There are various parks that are accessible from the project site.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Sports complex, retail space and hotel

b. a. Total acreage of the site of the proposed action? 21.3 acres

b. Total acreage to be physically disturbed? 19.0 acres

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 21.3 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☑ Yes ☐ No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated 2
- Anticipated commencement date of phase 1 (including demolition) March month 2026 year
- Anticipated completion date of final phase Sep month 2027 year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

Phase 1 includes the domes and commercial buildings, scheduled to be substantially complete by May of 2027. The hotel will be developed in Phase 2 and constructed by the hotel developer under a separate project schedule, unknown at this time.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2.a

f. Does the project include new residential uses? ☐Yes ☑No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑Yes ☐No

If Yes,

i. Total number of structures 4

ii. Dimensions (in feet) of largest proposed structure: 100' height; 275' width; and 500' length

iii. Approximate extent of building space to be heated or cooled: 400,000 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑Yes ☐No

If Yes,

i. Purpose of the impoundment: Stormwater management

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑Other specify: Runoff from impervious surfaces

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: .57 acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐Yes ☑No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i .What is the purpose of the excavation or dredging?

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards):
- Over what duration of time?

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No
If yes, describe.

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☐No

ix. Summarize site reclamation goals and plan:

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☑Yes ☐No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): USACE Non-Jurisdictional wetlands mapped by Earth Dimensions, Inc. dated August 12, 2021

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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: 44750 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑ Yes ☐ No
If Yes:

- Name of district or service area: Erie County Water Authority
- Does the existing public water supply have capacity to serve the proposal? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No
- Do existing lines serve the project site? ☑ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☑ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 44750 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 Sewer Treatment Plant
- Name of district: Town of Amherst Consolidated 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: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑ Yes ☐ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or 15.3 acres (impervious surface)

_____ Square feet or 21.3 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)?

Directed to on-site stormwater management facility for treatment and detention then directed to existing off-site underground municial stormwater main on Maple Road.

- 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: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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): 0

iii. Parking spaces: Existing 0 Proposed 500 Net increase/decrease +500

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: New full movement driveway on Maple Road

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: TBD

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): Local grid

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7:00 to 5:00
- Saturday: As needed
- Sunday: Not Applicable
- Holidays: Not Applicable

ii. During Operations:

- Monday - Friday: 7:00 to 10:00
- Saturday: 7:00 to 10:00
- Sunday: 7:00 to 10:00
- Holidays: TBD

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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:

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:

Dark sky compliant lighting that complies with the requirements contained in the Zoning Code.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: TBD tons per TBD (unit of time)
- Operation : TBD tons per TBD (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: TBD. Recycle Materials to the greatest extent possible
- Operation: TBD

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: TBD
- Operation:

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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): Athletic fields and golf course

ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0	15.3	+15.3
• Forested	1.7	0	-1.7
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	19.6	6	-13.6
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____	21.3	21.3	0

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No
If Yes,
i. Identify Facilities:

_____
_____

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): C915207
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____
The contamination on the Project Site has previously been remediated per the NYSDEC BCP Program requirements. A copy of the Certificate of Completion issued by the NYSDEC on May 7, 2012 is provided at Attachment "A".

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): C915207, C915291

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____
_____

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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? 8 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:

Od - Odessa silt loam (D)	79.0 %
SaA - Schoharie silt loam (D)	21.0 %
	%

d. What is the average depth to the water table on the project site? Average: 1.75 feet

e. Drainage status of project site soils:

☐ Well Drained:	0 % of site
☐ Moderately Well Drained:	0 % of site
☑ Poorly Drained	100 % of site

f. Approximate proportion of proposed action site with slopes:

☑ 0-10%:	100 % of site
☐ 10-15%:	0 % of site
☐ 15% or greater:	0 % of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

2.a

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Packet Pg. 637

m. Identify the predominant wildlife species that occupy or use the project site: _____
Typical suburban species _____ _____ _____
_____ _____ _____

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
_____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:
i. Species and listing (endangered or threatened): _____
_____
_____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:
i. Species and listing: _____
_____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☐ No
If yes, give a brief description of how the proposed action may affect that use: _____
_____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☐ No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____
_____
_____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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.

A copy of the No Impact Determination Letter issued by the NYS Office of Parks, Recreation and Historic Preservation on September 24, 2025 is provided at Attachment "B".

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name 716 Sport Complex, LLC Date October 1, 2025

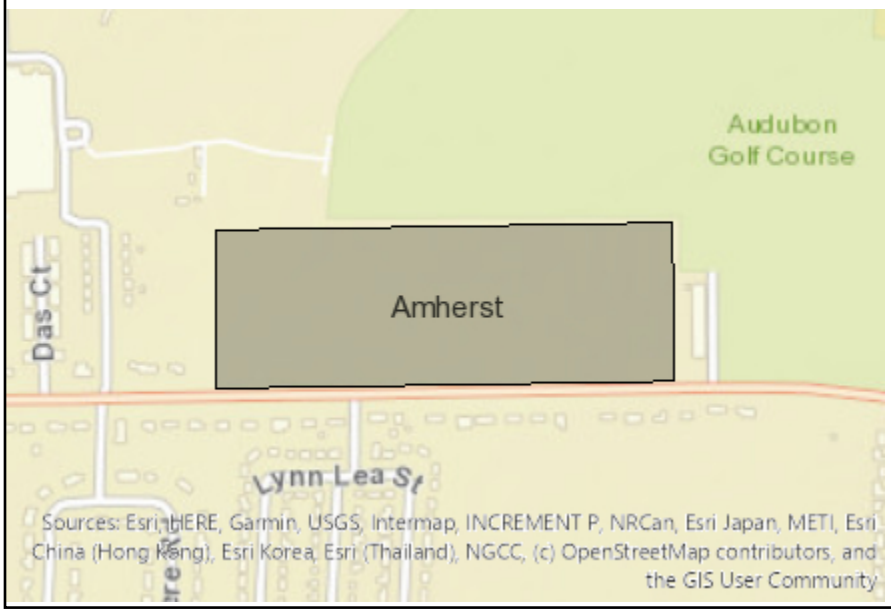
Signature _____ Title Project Engineer

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

PRINT FORM

EAF Mapper Summary Report

Tuesday, September 30, 2025 3:



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 to confirm data provided by the Mapper or to obtain data not provided by the Mapper.



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]	Remediaton Sites:C915207, NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Yes - Digital mapping data for Spills Incidents are not available for this location. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Yes
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Yes
E.1.h.i [DEC Spills or Remediation Site - DEC ID Number]	C915207
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	C915207, C915291
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.ii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT 1 OF PART 1 OF FULL EAF

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

NYSDEC BROWNFIELD CLEANUP PROGRAM (BCP)

CERTIFICATE OF COMPLETION

CERTIFICATE HOLDER(S):

Name	Address
BUFFALO-MAPLE ROAD, LLC AND MAPLE ROAD LODGING, LLC	570 Delaware Avenue, Buffalo, NY 14202

BROWNFIELD CLEANUP AGREEMENT:

Application Approval: 8/26/12 **Agreement Execution:** 9/22/06 **Agreement Index No.:**B9-0724-06-07

Application Approval Amendment: 5/9/07 **Agreement Execution Amendment:** 6/18/07

SITE INFORMATION

Site No.: C915207 **Site Name:** 330 Maple Road Site
Site Owner: Buffalo-Maple Road, LLC
Street Address: 330 Maple Road
Municipality: Williamsville **County:** Erie **DEC Region:** 9
Site Size: 26.000 Acres
Tax Map Identification Number(s): Portion of 55.03-1-10
Percentage of site located in an EnZone: 0 > 49 %

A description of the property subject to this Certificate is attached as Exhibit A and a site survey is attached as Exhibit B.

CERTIFICATE ISSUANCE

This Certificate of Completion, hereinafter referred to as the "Certificate," is issued pursuant to Article 27, Title 14 of the New York State Environmental Conservation Law ("ECL").

This Certificate has been issued upon satisfaction of the Commissioner, following review by the Department of the final engineering report and data submitted pursuant to the Brownfield Site Cleanup Agreement, as well as any other relevant information regarding the Site, that the applicable remediation requirements set forth in the ECL have been or will be achieved in accordance with the time frames, if any, established in the remedial work plan.

The remedial program for the Site has achieved a cleanup level that would be consistent with the following categories of uses (actual site use is subject to local zoning requirements):

Allowable Uses under the BCP: Residential, Restricted-Residential, Commercial, and Industrial
Cleanup Track: Track 2: Restricted use with generic soil cleanup objectives

Tax Credit Provisions for Entities Taxable Under Article 9, 9-A, 32, and 33:
Site Preparation and On-Site Groundwater Remediation Credit Component Rate is 12 %.
Tangible Property Credit Component Rate is 12 %.

Tax Credit Provisions for Entities Taxable Under Article 22 & S Corporations:
Site Preparation and On-Site Groundwater Remediation Credit Component Rate is 10 %.
Tangible Property Credit Component Rate is 10 %.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

LIABILITY LIMITATION

Upon issuance of this Certificate of Completion, and subject to the terms and conditions set forth herein, the Certificate holder(s) shall be entitled to the liability limitation provided in ECL Section 27-1421. The liability limitation shall run with the land, extending to the Certificate holder's successors or assigns through acquisition of title to the Site and to a person who develops or otherwise occupies the Site, subject to certain limitations as set forth in ECL Section 27-1421. The liability limitation shall be subject to all rights reserved to the State by ECL Section 27-1421.2 and any other applicable provision of law.

CERTIFICATE TRANSFERABILITY

This Certificate may be transferred to the Certificate holder's successors or assigns upon transfer or sale of the Site as provided by ECL Section 27-1419.5 and 6NYCRR Part 375-1.9.

CERTIFICATE MODIFICATION/REVOCATION

This Certificate of Completion may be modified or revoked by the Commissioner following notice and an opportunity for a hearing in accordance with ECL Section 27-1419 and 6NYCRR Part 375-1.9(e) upon a finding that:

(1) either the Applicant or the Applicant's successors or assigns have failed to comply with the terms and conditions of the Brownfield Site Cleanup Agreement;

(2) the Applicant made a misrepresentation of a material fact tending to demonstrate that it was qualified as a Volunteer;

(3) either the Applicant or the Applicant's successors or assigns made a misrepresentation of a material fact tending to demonstrate that the cleanup levels identified in the Brownfield Site Cleanup Agreement were reached;

(4) there is good cause for such modification or revocation;

(5) either the Applicant or the Applicant's successors or assigns failed to manage the controls or monitoring in full compliance with the terms of the remedial program;

(6) the terms and conditions of the environmental easement have been intentionally violated or found to be not protective or enforceable.

The Certificate holder(s) (including its successors or assigns) shall have thirty (30) days within which to cure any deficiency or to seek a hearing. If the deficiency is not cured or a request for a hearing received within such 30-day period, the Certificate shall be deemed modified or vacated on the 31st day after the Department's notice.

Joseph J. Martens
Commissioner
New York State Department of Environmental Conservation

By: _____ Date: May 7, 2012
Robert W. Schick, P.E., Acting Director
Division of Environmental Remediation

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT 2 OF PART 1 OF FULL EAF

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

September 24, 2025

Joseph Bognanno
300 State Street
Rochester, NY 14614

Re: DEC
716 Sports
Town of Amherst, Erie County, NY
25PR08945

Dear Joseph Bognanno:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Sydney Snyder at the following email address:

Sydney.Snyder@parks.ny.gov

Sincerely,

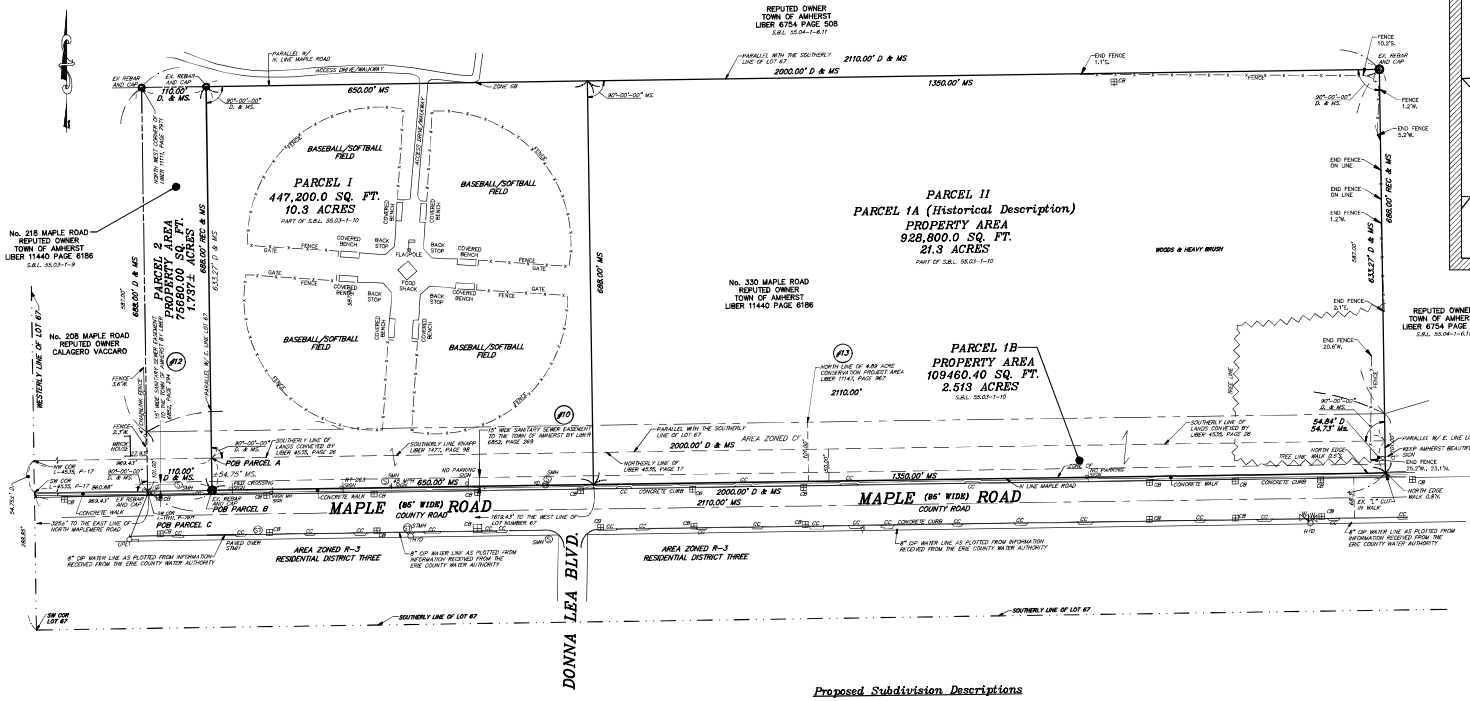
R. Daniel Mackay

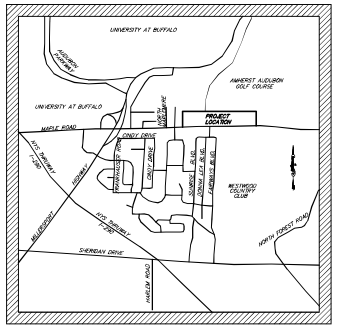
Deputy Commissioner for Historic Preservation
Division for Historic Preservation

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 2

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)





LOCATION MAP:
NOT TO SCALE

Historical Description

SCHEDULE A
REFERENCED FROM
STEWART TITLE INSURANCE COMPANY
TITLE NUMBER: 1803700-00008
DATED: 12/19/2023
REVISED: 12/18/2024

PARCEL "1A"
All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in a line drawn parallel with the southerly line of said Lot Number 67 and distant 288.85 feet northerly therefrom, as measured along the westerly line of said Lot Number 67, said point of beginning being 969.43 feet distant easterly from the westerly line of said Lot Number 67; running thence easterly along said line so drawn parallel with the southerly line of Lot Number 67, a distance of 2000 feet; running thence northerly at right angles, 633.27 feet to a point in a line drawn parallel with the southerly line of said Lot Number 67; running thence westerly along said parallel line, 2000 feet; running thence southerly in a straight line, 633.27 feet more or less to the place of beginning.

PARCEL "1B"
All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 969.43 feet distant easterly from the westerly line of said Lot Number 67; thence east along the north line of Maple Road, 2,000.00 feet to a point; thence north and parallel to the east line of Lot Number 67, a distance of 54.84 feet to the southerly line of lands conveyed to Henry Knapp by Deed recorded in the Erie County Clerk's Office in Liber 1477 of Deeds at page 98; thence westerly parallel with the south line of Lot Number 67 and along the southerly line of lands so conveyed to Henry Knapp, 2,000.00 feet; thence southerly parallel to the east line of Lot Number 67, 54.75± feet to the place of beginning.

PARCEL "2"
All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road distant 860.88 feet east from its intersection with he west line of Lot No. 67; thence proceeding east along the north line of Maple Road 110 feet; thence proceeding northerly 685 feet at an angle of 90° with the north line of Maple Road; thence westerly110 feet and parallel with the northerly line of Maple Road; thence southerly 685 feet to the northerly line of Maple Road, being the point or place of beginning.

EXCEPTIONS FROM TITLE

#10 15' wide easement granted by the Buffalo Shooting Club to Town of Amherst, dated November 1, 1962 and recorded January 9, 1963 in Liber 6852 of Deeds, page 269 (shown and plotted).

#11 Temporary Easement to the County of Erie for re-construction of Maple Road, Cft 192, dated 4-2-1968, in Liber 7564 of Deeds at page 635, unable to plot with information from the record Liber & page, therefore temporally easement may or may-not affect subject premises.

#12 15' wide easement granted by Helen W. Jay to Town of Amherst, dated October 13, 1962 and recorded January, 9 1963 in Liber 6852 of Deeds, page 294. (shown and plotted).

#13 Declaration of restrictions made by Buffalo-Maple Road, LLC and Buffalo Anderson Associates, LLC dated July 1, 2008 and recorded in the Erie County Clerk's Office on July 21, 2008 in Liber 11147 of Deeds at page 967. (Conservation Project Area shown and plotted)

LEGEND

⊞	= CATCH BASIN	CB	= CATCH BASIN
○	= CLEANOUT	CC	= CURB CUT
		CO	= CLEANOUT
	= FIRE HYDRANT	D	= DEED
		E	= EAST
	= LAMP	EX.	= EXISTING
		HYD	= FIRE HYDRANT
	= PROPERTY CORNER MARKER (TYPE NOTED)	L	= LIBER
		MS	= MEASURED
		N	= NORTH
Ⓢ	= SANITARY MANHOLE	P	= PAGE
		REC	= RECORD
Ⓢ	= STORM MANHOLE	S	= SOUTH
		SMH	= SANITARY MANHOLE
	= SIGN (1 POST)	STMH	= STORM MANHOLE
		UP	= UTILITY POLE
		UPL	= UTILITY POLE W/ LIGHT
	= SIGN (2 POSTS)	W	= WEST
		WV	= WATER VALVE
		YD	= YARD DRAIN
	= UTILITY POLE		
	= UTILITY POLE W/ LIGHT		
@	= YARD DRAIN		
	= WATER VALVE		

Proposed Subdivision Descriptions

PARCEL "I"

All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 969.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 650.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 650.00 feet to the place of beginning, containing 10.3 acres of land, more or less.

Subject to a portion of a 101.00 foot wide Conservation Project Area, running parallel with and 101.00 feet north of the northerly line of said north line of Maple Road as recorded in the Erie County Clerk's Office in Liber 11147 of Deeds at page 967.

Subject to a portion of a 15 foot wide sanitary sewer easement to the Town of Amherst, running parallel with and 15 feet north of the northerly line of said Maple Road as recorded in the Erie County Clerk's Office in Liber 6852 of Deeds at page 269.

PARCEL "II"

All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 1619.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly at right angles and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 1350.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 1350.00 feet to the place of beginning, containing 21.3 acres of land, more or less.

Subject to a portion of a 101.00 foot wide Conservation Project Area, running parallel with and 101.00 feet north of the northerly line of said north line of Maple Road as recorded in the Erie County Clerk's Office in Liber 11147 of Deeds at page 967.

Subject to a portion of a 15 foot wide sanitary sewer easement to the Town of Amherst, running parallel with and 15 feet north of the northerly line of said Maple Road as recorded in the Erie County Clerk's Office in Liber 6852 of Deeds at page 269.

© COPYRIGHT 2025
THESE PLANS ARE THE PROPERTY OF K-H-O-P-S ENGINEERING, & SURVEY, DPC
ENGINEERING, & SURVEY, DPC IS STRICTLY PROHIBITED.
UNAUTHORIZED DUPLICATION OR REPRODUCTION OF THESE PLANS, IS A VIOLATION OF APPLICABLE LAWS.

NOTES:
UNAUTHORIZED ALTERATION OR ADDITION TO THESE PLANS, IN WHOLE OR IN PART, IS A VIOLATION OF LAW, INCLUDING SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

THESE PLANS ARE NOT SUITABLE FOR RECORDING WITH THE COUNTY CLERK'S OFFICE.

NO.	DESCRIPTION	DATE	BY
1	MAP OF PARCEL I AND PARCEL II	4-24-25	

K-H-O-P-S
Professional Engineering & Survey, DPC
392 ROAD, STREET, SUITE 401
Buffalo, New York 14202
P: 716.856.0310
F: 716.856.0391
WWW.KHOPS.COM

Designed by:
Drawn by: JLEW
Checked by: DMH
Dvg Scale: Hor: 1"=100' Vert:
Field Data: 12-13-2024
Office Data: 12-16-2024
Job No. 24MYT05.01
Book: 390
Page: 58
Map: 58503
File Name: 218 MAPLE-58503

TOWN OF AMHERST COUNTY OF ERIE STATE OF NEW YORK

PARCEL SUBDIVISION SURVEY
PARCEL I & PARCEL II
BEING PART OF LOT 67, TOWNSHIP 12, RANGE 7
OF THE HOLLAND LAND COMPANYS SURVEY

SHEET REFERENCE NUMBER:
595[illegible]
Sheet 1

Surveys\24MYT05.01 - Hodgson Russ - 218 & 330 Maple Road - 59503\4 - Technical Data\CADD Drawings\Autocad\218 MAPLE-59503.dwg,

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 3

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 3

LEGAL DESCRIPTION OF POTION OF 330 MAPLE ROAD

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 1619.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly at right angles and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 1350.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 1350.00 feet to the place of beginning, containing 21.3 acres of land, more or less.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 4

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

FILED

JUL 02 2008

ERIE COUNTY
CLERK'S OFFICE

Box 104 JP

-FAF-

DECLARATION OF RESTRICTIONS

WHEREAS, the undersigned Buffalo-Maple Road LLC and Buffalo-Anderson Associates, LLC (hereinafter referred to as "Petitioners") are the owners of two parcels of land commonly known as 218 Maple Road and 330 Maple Road, respectively, located in the Town of Amherst, County of Erie and State of New York and more particularly described in Schedule "A" attached hereto (the "Property"); and

WHEREAS, Petitioners by their agent Benderson Development Company, LLC, applied to the Town of Amherst, New York Town Board for rezoning of the Property; and

WHEREAS, on the 2nd day of June, 2008, the said Amherst Town Board approved the requested rezonings from CF to GB, and R-3 to MFR-6 on the condition Petitioners, their successors and assigns, agree to restrict the Property as follows:

1. The creation of a 4.5 acre conservation project area, 101 feet in depth, fronting Maple Road on property described in Schedule "B"

2. The Brownfield Cleanup Program will be instituted in a manner that results in the project site being cleaned to New York State Department of Environmental Conservation residential standards

3. No single retail user shall be greater than 50,000 square feet in size.

4. A maximum building height limitation of 50 feet for any structure.

5. No freestanding drive-thru fast food restaurants.

6. No freestanding drive-thru pharmacies.

7. Petitioners, their successors and assigns agreed to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

NOW THEREFORE, Petitioners agree to abide by the above enumerated restrictions. The above restrictions shall be binding on the Petitioners, their successors and assigns and all parties claiming thereunder and shall run with the land and the above described restrictions can only be changed, modified or eliminated by a vote of the Town of Amherst Town Board. In the event, however, the Town of Amherst Town Board has subsequently passed the appropriate legislation requiring a vote of greater than a majority vote to change zoning restrictions, Petitioners, their successors and assigns and all parties claiming thereunder shall be bound by said greater than majority vote requirement.

::ODMA\PCDOCS\CDAMON\236\1

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

IN WITNESS WHEREOF, the undersigned has caused this Declaration to be executed on the 1st day of July, 2008.

BUFFALO-MAPLE ROAD, LLC

By: _____
David H. Baldauf, Manager

BUFFALO-ANDERSON ASSOCIATES, LLC

By: _____
David H. Baldauf, Manager

STATE OF FLORIDA }
}ss.:
COUNTY OF MANATEE }

On this 1st day of July, in the year 2008, before me, the undersigned, a Notary Public in and for said State, personally appeared DAVID H. BALDAUF, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

KIMBERLY J. TAYLOR
MY COMMISSION #DD344390
EXPIRES: AUG 05, 2008
Bonded through 1st State Insurance

_____
Notary Public

STATE OF FLORIDA }
}ss.:
COUNTY OF MANATEE }

On this 1st day of July, in the year 2008, before me, the undersigned, a Notary Public in and for said State, personally appeared DAVID H. BALDAUF personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

KIMBERLY J. TAYLOR
MY COMMISSION #DD344390
EXPIRES: AUG 05, 2008
Bonded through 1st State Insurance

_____
Notary Public

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

SCHEDULE A

The Town Board hereby amends its zoning map which is incorporated by reference in the town zoning code by amending from CF to GB the zoning of a portion of 330 Maple Road; legally described as follows:

All that tract or parcel of land situate in the Town of Amherst, County of Erie, State of New York, being part of Lot 67, Township 12, Range 7 of the Holland Land Company's Survey further described as follows:

Commencing at the southwest corner of lands conveyed by deed recorded in the Erie County Clerk's office in Liber 11111 of deeds at page 7971, said point being in the northerly line of Maple Road, distant 325 +/- east of the easterly line of North Maplemere Road;

Thence easterly along the northerly line of Maple Road a distance of 330.00 feet, said point being 220.0 feet east of the southwest corner of lands now or formerly conveyed to Buffalo Maple Road, LLC;

Thence northerly through lands now or formerly of said Buffalo Maple Road, LLC, at right angles a distance of 101.00 feet to the point or place of beginning;

Thence continuing northerly through lands now or formerly of said Buffalo Maple Road, LLC. A distance of 587.00 feet to a point in the northerly line of said Buffalo Maple Road, LLC.;

Thence easterly along the northerly line of said Buffalo Maple Road, LLC, at right angles parallel to the northerly line of Maple Road a distance of 1780.00 feet to the northeast corner of said Buffalo Maple Road, LLC.;

Thence southerly along the easterly line of said Buffalo Maple Road. LLC, at right angles at distance of 587.00 feet to a point;

Thence westerly through lands now or formerly of said Buffalo Maple Road, LLC. at right angles a distance of 1780.00 feet to the point or place of beginning containing 23.99 acres of land, more or less.

The Town Board further amends its Zoning Map, which is incorporated by reference in the Town of Amherst Zoning Code by amending from CF and R-3 to MFR-6 the zoning of a portion of 218 Maple Road and a portion of 330 Maple Road; legally described as follows:

All that tract or parcel of land situate in the Town of Amherst, County of Erie, State of New York, being part of Lot 67, Township 12, Range 7 of the Holland Land Company's Survey further described as follows:

Commencing at the southwest corner of lands conveyed by deed recorded in the Erie County Clerk's office in Liber 11111 of deeds at page 7971, said point being in the northerly line of Maple Road, distant 325 +/- east of the easterly line of North Maplemere Road;

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Thence easterly along the northerly line of Maple Road a distance of 330.00 feet, said point being 220.0 feet east of the southwest corner of lands now or formerly conveyed to Buffalo Maple Road, LLC.;

Thence northerly through lands now or formerly of said Buffalo Maple Road, LLC. at right angles a distance of 101.00 feet to the point or place of beginning;

Thence continuing northerly through lands now or formerly of said Buffalo Maple Road, LLC. a distance of 587.00 feet to a point in the northerly line of said Buffalo Maple Road, LLC.;

Thence westerly along the northerly line of Maple Road of said Liber 11111 of deeds at page 7971 and a portion of the northerly line of lands now or formally conveyed to Buffalo Maple Road, LLC. at right angles and parallel to Maple Road a distance of 330.00 Feet to a point;

Thence southerly through the said lands of Buffalo Maple Road, LLC. at right angles a distance of 587.00 feet to a point;

Thence easterly through lands now or formerly of said Buffalo Maple Road, LLC. at right angles a distance of 330.00 feet to the point or place of beginning containing 4.45 acres of land, more or less.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

SCHEDULE B

Notwithstanding the foregoing rezoning, there shall be created on the site a conservation project area described as follows:

All That Tract or Parcel of Land situate in the Town of Amherst, County of Erie, State of New York, being part of Lot 67, Township 12, Range 7 of the Holland Land Company's Survey further described as follows:

Beginning at the Southwest corner of lands conveyed by deed recorded in the Erie County Clerk's Office in Liber 11111 of Deeds at page 7971, said point being in the northerly line of Maple Road, distant 325 feet more or less east of the easterly line of North Maplemere Road;

Thence easterly along the northerly line of Maple Road a distance of 2,110 feet to the easterly line of lands now or formerly owned by Buffalo Shooting Club, Inc.;

Thence northerly at right angles and along the easterly line of said Buffalo Shooting Club, Inc. a distance of 101 feet to a point;

Thence westerly parallel with the northerly line of Maple Road a distance of 2,110 feet to the west line of said lands conveyed by deed recorded in the Erie County Clerk's Office in Liber 11111 of Deeds at page 7971;

Thence southerly along the westerly line of said lands conveyed by deed recorded in the Erie County Clerk's Office in Liber 11111 of Deeds at page 7971 a distance of 101 feet to the Point or Place of Beginning containing 4.89 acres of land, more or less.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Honorable Kathleen C. Hochul
County Clerk
Erie County
92 Franklin Street
Buffalo, NY 14202
(716) 858-8865

DATE:07/02/2008
TIME:04:07:25 PM
RECEIPT:556521

DAMON & MOREY

ITEM -01 781 04:07:25 PM
CTRL #:2008137304 BK/PG:D11147/0967
BUFFALO-MAPLE ROAD LLC
TOWN OF AMHERST

RECORDING FEE			55.00
MARKOFF FEE			0.00
Sub. Total		55.00	
AMOUNT DUE:	$55.00		
PAID CHECK:	$55.00		
Check #:0400			
TOTAL PAID:	$55.00		$55.00

REC BY:JOANNE
County Clerk
Have a nice day!

Honorable Kathleen C. Hochul
County Clerk
Erie County
92 Franklin Street
Buffalo, NY 14202
(716) 858-8865

DATE:07/02/2008
TIME:04:07:25 PM
RECEIPT:556521

DAMON & MOREY

ITEM -01 781 04:07:25 PM
CTRL #:2008137304 BK/PG:D11147/0967
BUFFALO-MAPLE ROAD LLC
TOWN OF AMHERST

RECORDING FEE			55.00
MARKOFF FEE			0.00
Sub. Total		55.00	
AMOUNT DUE:	$55.00		
PAID CHECK:	$55.00		
Check #:0400			
TOTAL PAID:	$55.00		$55.00

REC BY:JOANNE
County Clerk
Have a nice day!

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 5

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 5

APPLICATION FOR RELIEF OF ZONING CONDITIONS AND TO AMEND DECLARATION OF RESTRICTIONS – PORTION OF 330 MAPLE ROAD

Question 11(A): Description of the character of the proposed development:

Response to Question 11(A): The proposed project consists of the development of a portion of 330 Maple Road consisting of 21.3 acres of vacant land (the "Project Site") currently owned by the Town of Amherst as a state-of-the art sports complex that will include approximately 50,000 sq. ft. of retail space along with a five-story hotel and all related site improvements. A color copy of the Concept Plan depicting the conceptual layout of the proposed project is provided at Exhibit "7". An aerial photograph of the Project Site and the surrounding vicinity is provided at Exhibit "11" and a color excerpt of the Zoning Map is provided at Exhibit "12".

The Project Site is zoned General Business District ("GB") and Recreation Conservation District ("RC") pursuant to the Town's Zoning Map. The RC zoning only applies to the front portion of the Project Site along Maple Road that will consist of a conservation area consisting of greenspace and landscaping as depicted on the Concept Plan attached as Exhibit "7".

Question 11(B)(1): Rationale for rezoning request: 1. What was this site chosen?

Response to Question 11(B)(1): The Project Site is properly zoned for the proposed project and the proposed use is consistent with Figure 6 of the adopted Comprehensive Plan, which designates the portion of the Project Site to be developed as appropriate for "Commercial-Mixed-Use".

The Project Sponsor is requesting that the Town Board grant relief of zoning conditions imposed in connection with the previous rezoning of the Project Site for the previously approved but never constructed Gun Club Project. A copy of the Declaration of Restrictions recorded at the

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Erie County Clerk's Office on July 2, 2008 is provided at Exhibit "4" and a draft of the Amended Declaration of Restrictions is provided at Exhibit "8". The Project Sponsor is requesting that the previously imposed zoning conditions be rescinded and replaced with the following zoning conditions as set forth in the draft of the Amended Declaration of Restrictions:

1. The Declarant shall comply with the requirements imposed by the NYS Department of Environmental Conservation relative to the Brownfield Clean Up Program in connection with the development of the Project Site.

2. No freestanding drive-thru fast food restaurants shall be permitted on the Project Site.

3. No freestanding drlve-tbru pharmacies shall be permitted on the Project Site.

4. The Declarant agrees to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

Question 11(B)(2): Why cannot land be used with the existing zoning?

Response to Question 11(B)(2): The Project Site cannot be developed as proposed in manner that would comply with the zoning conditions previously imposed by the Town Board since Condition No. 3 restricted any single retail user to a maximum of 50,000 square feet in size and Condition No. 4 limited the maximum building height to 50 feet for any structure.

Question 11(B)(3): How will this rezoning impact surrounding properties?

Response to Question 11(B)(3): The requested relief of the zoning conditions previously imposed by the Town Board will not result in any potentially significant adverse impacts on surrounding properties. A completed Part 1 of the Full Environmental Assessment Form as prepared pursuant to the State Environmental Quality Review Act ("SEQRA") is provided at Exhibit "1" of this Application. It is important to mention that the project will allow the Project Sponsor to receive

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

the benefits associated with the previous environmental cleanup of contamination at the Project Site. A copy of the Certificate of Completion issued by the NYS Department of Environmental Conservation ("NYSDEC") dated May 7, 2012 is provided at Attachment "A" of the Part 1 of the Full EAF provided at Exhibit "1" of this Application. A copy of the No Impact Determination Letter issued by SHPO dated September 24, 2025 is provided at Attachment "B" of the Part 1 of the Full EAF provided at Exhibit "1" of this Application. Additionally, a copy of the Wetland Investigation Letter prepared by Scott Livinngstone of Earth Dimensions, Inc. is provided at Exhibit "10" of the Application.

The proposed project will also require Site Plan Approval from the Planning Board which will ensure compliance with the applicable standards for landscaping, lighting, stormwater management, etc.

Question 11(B)(4): How will this rezoning impact the school system?

Response to Question 11(B)(4): The proposed project will have very substantial positive impacts on the school district since it will generate substantial annual property taxes without creating any demand for educational services.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 6

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 6

APPLICATION FOR RELIEF OF ZONING CONDITIONS AND TO AMEND DECLARATION OF RESTRICTIONS – PORTION OF 330 MAPLE ROAD

Question 16(A)(1): State in detail why the proposed zoning is consistent with the adopted Town of Amherst Bicentennial Comprehensive Plan. Cite specific sections, maps and/or figures in the plan that support the proposed zoning at this location.

Response to Question 16(A)(1): The proposed project is consistent with the Town's planning goals and objectives as set forth in the adopted the Bicentennial Comprehensive Plan and other relevant planning documents which repeatedly encourage athletic facilities that will assist in promoting the health of the Town's residents. The Project Site is properly zoned for the proposed project and the proposed use is consistent with Figure 6 of the adopted Comprehensive Plan, which designates the portion of the Project Site to be developed as appropriate for "Commercial-Mixed-Use". A copy of Figure 6 of the Comprehensive Plan is provided at Exhibit "13".

Question 16(A)(2): Cite all text, map, and/or figures that must be amended to support the proposed zoning at this location and provide detailed suggested amendments.

Response to Question 16(A)(2): The proposed project is consistent with the planning goals and objectives contained in the Comprehensive Plan and as such there is not a need to amend the Comprehensive Plan to accommodate the proposed project.

Question 16(A)(3): State why the proposed zoning is consistent with intent and objectives (Sec. 1-2-2) of the Zoning Ordinance:

Response to Question 16(A)(3): Section 1-2-1 of the Zoning Code is titled "Purpose" and it states as follows:

> *"The purpose of this Zoning Ordinance and the intent of the legislative authority in its adoption is to promote the environment of the town and its public health, safety, convenience, comfort, prosperity and the general welfare by regulating the use of*

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

buildings, other structures and land for residences, open space, public facilities, business, services, industry or other purposes; by regulating and restricting the bulk, height, design, building coverage and location of structures; by regulating and limiting population density; and for the aforesaid purposes, to divide the land within the limits of the town into districts of such number and dimensions generally consistent with the policies of the Comprehensive Plan and to provide procedures for the administration and amendment of said Zoning Ordinance."

The requested for relief of zoning conditions previously imposed by the Town Board to accommodate the proposed project on the Project Site is consistent with the "Purpose" of the Zoning Code. Section 1-2-2 of the Zoning Code sets forth the objectives of the Zoning Code. This section of the Zoning Code lists thirteen objectives that are discussed below as follows:

A. To protect the character and values of residential, institutional and public uses, business, commercial and manufacturing uses and to insure their orderly and beneficial development;

Response: The project represents orderly and beneficial development that will provide very substantial benefits to the Town and its residents.

B. To provide adequate open spaces for light, air and outdoor uses to include public, common and private open space areas;

Response: The proposed project will not be inconsistent with this objective.

C. To prevent overcrowding of land;

Response: The proposed project will not result in the overcrowding of land.

D. To prevent excessive concentration of population and to prevent spare and uncoordinated development;

Response: The project will not result in excessive concentration of population and the project represents an example of coordinated development.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

E. To regulate and control the location and spacing of buildings on the lot and in relation to the surrounding property generally consistent with the policies of the Comprehensive Plan.

Response: The responses to the Questions in Section 16 provided above sets forth the reasons the proposed rezoning is consistent with the recommended land use and the policies contained in the adopted Comprehensive Plan.

F. To protect persons and property from damage and injury due to fire or flood;

Response: The Project Site is not located in a regulated floodway or 100 yr. floodplain. The Site Plan Application review process will trigger the need for an Engineer's Report to be prepared by a licensed engineer to be prepared for review and approval by the Town's Engineering Department. The project will not increase the likelihood of damage and injury due to fire and flood. The proposed buildings will be constructed per the stringent requirements of the NYS Building Code including the fire safety standards contained therein.

G. To preserve and protect significant natural features and vegetation, thereby preventing ecological damage and visual blight which occur when those features or vegetation are eliminated or substantially altered to serve development purposes only.

Response: The project will not be inconsistent with this objective. There are not significant natural features located on the Project Site. The Project Site has been designated for commercial development for 18 years.

H. To assure that structure and land use arrangements are aesthetically harmonious with nearby areas and structures.

Response: The development of the Project Site in a manner consistent with the Concept Plan submitted with this Application will be aesthetically harmonious with nearby areas and structures.[1] The layout reflects a deliberate effort locate the athletic facility as far away as practicable from the Maple Road Right-of-Way, since there are existing single-family homes on the south side of Maple Road.

---

[1] A reduced-size copy of the Concept Plan is attached as Exhibit "7".

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

I. To regulate the location of buildings and intensity of uses in relation to streets according to plans so as to cause the least interference with and be damaged least by traffic movements and hence result in lessened street congestion and improved public safety.

Response: The proposed project will have a driveway connection to Maple Road, which is an Erie County Highway, and a secondary gated emergency access driveway for emergency access per the requirements of Appendix D of the NYS Fire Code.

J. To establish zoning patterns that insure economical extensions for sewers, water supply waste disposal and other public utilities, as well as development of recreation, schools and other public facilities;

Response: The Project Site has access to sanitary sewer and water lines as well as necessary public utilities to service the proposed project.

K. To guide the future development of the town so as to being the gradual conformity of land, structures and uses generally consistent with the policies of the Comprehensive Plan.

Response: The project is consistent with this objective since the proposed use is consistent with the policies contained in the Comprehensive Plan.

L. To accomplish the specific intents and goals set forth in the introduction to the respective sections.

Response: The proposed project is consistent with this objective.

M. To protect the community from visual pollution resulting from the unregulated use of signs and other advertising devices.

Response: The proposed project will not be inconsistent with this objective.

Question 16(C): Compatibility with the present zoning and conforming uses of nearby property and with the character of the neighborhood:

Response to Question 16(C): The Project Sponsor is not seeking to amend the existing zoning classifications of the Project Site.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Question 16(D): **Suitability of the subject property for uses permitted by the current versus the proposed district:**

Response to Question 16(D): The Project Site is properly zoned so this this question does not apply.

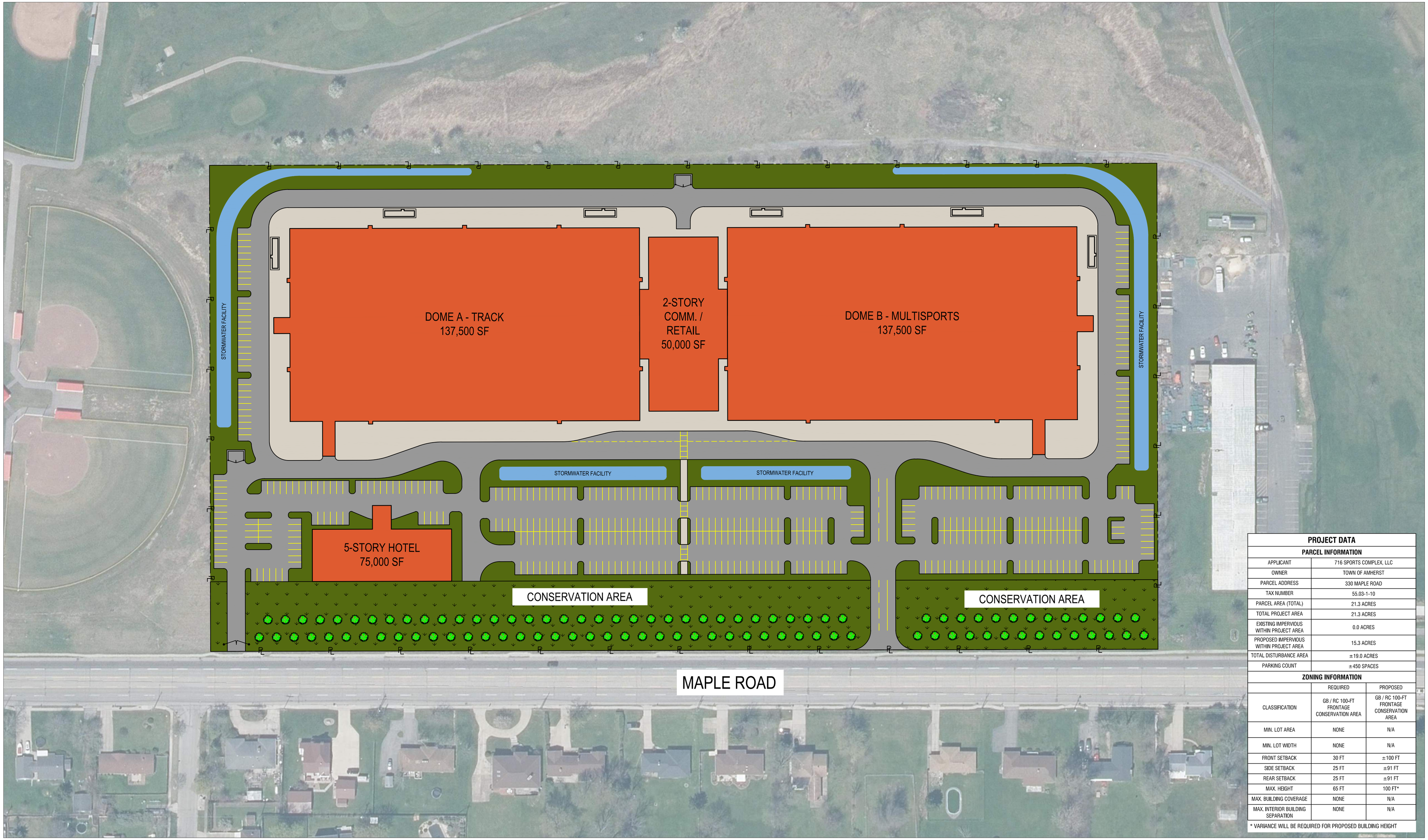
Question 16(E): **Whether the proposed change tends to improve the balance of uses, or meets a specific demand in the Town:**

Response to Question 16(D): The proposed project will have positive impacts on the balance of uses in the Town by providing a state-of-the-art athletic facility that will offer a broad range of services that are not currently available in the Town of Amherst or any other community in Western New York.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 7

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



PROJECT DATA	
PARCEL INFORMATION	
APPLICANT	716 SPORTS COMPLEX, LLC
OWNER	TOWN OF AMHERST
PARCEL ADDRESS	330 MAPLE ROAD
TAX NUMBER	55.03-1-10
PARCEL AREA (TOTAL)	21.3 ACRES
TOTAL PROJECT AREA	21.3 ACRES
EXISTING IMPERVIOUS WITHIN PROJECT AREA	0.0 ACRES
PROPOSED IMPERVIOUS WITHIN PROJECT AREA	15.3 ACRES
TOTAL DISTURBANCE AREA	±19.0 ACRES
PARKING COUNT	±450 SPACES

ZONING INFORMATION		
	REQUIRED	PROPOSED
CLASSIFICATION	GB / RC 100-FT FRONTAGE CONSERVATION AREA	GB / RC 100-FT FRONTAGE CONSERVATION AREA
MIN. LOT AREA	NONE	N/A
MIN. LOT WIDTH	NONE	N/A
FRONT SETBACK	30 FT	±100 FT
SIDE SETBACK	25 FT	±91 FT
REAR SETBACK	25 FT	±91 FT
MAX. HEIGHT	65 FT	100 FT*
MAX. BUILDING COVERAGE	NONE	N/A
MAX. INTERIOR BUILDING SEPARATION	NONE	N/A

* VARIANCE WILL BE REQUIRED FOR PROPOSED BUILDING HEIGHT

LaBella
Powered by partnership.

CONCEPT PLAN
716 SPORTS FIELDHOUSE COMPLEX

DATE: OCTOBER 2, 2025

SCALE: 1"=60'

N

ARC BUILDING PARTNERS

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 8

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

LOCAL LAW NO. _____-2025

TOWN OF AMHERST
COUNTY OF ERIE, STATE OF NEW YORK

A LOCAL LAW AMENDING CHAPTER 203 OF THE TOWN OF AMHERST CODE, KNOWN AS THE ZONING ORDINANCE FOR RELIEF OF REZONING CONDITIONS IMPOSED IN CONNECTION WITH A REZONING DECISION FOR 330 MAPLE ROAD AND TO AMEND DECLARATION OF RESTRICTIONS AND TO AMEND THE ZONING MAP ACCORDINGLY.

Be it enacted by the Town Board of the Town of Amherst as follows:

Section 1. Title.

This Local Law shall be referred to as, "A Local Law Amending Chapter 203 of Town of Amherst Code, Known As The Zoning Ordinance for Relief of Rezoning Conditions Imposed in connection with a Rezoning Decision for 330 Maple Road and to Amend Declaration of Restrictions."

Section 2. Legislative Findings and Intent.

The Town Board of the Town of Amherst finds that an application for relief of rezoning conditions imposed in connection with a rezoning decision and to amend declaration of restrictions has been filed and is in proper order. The Town Board further finds that the request including the rezoning is consistent with the Comprehensive Plan.

Section 3. Amherst Zoning Map/Relief of Rezoning Conditions.

The Town Board hereby approves application for relief of rezoning conditions imposed in connection with a rezoning decision and to amend declaration of restrictions, subject to any conditions imposed by the authorizing resolution. The adoption of this Local Law eliminates the zoning conditions imposed by the Town Board in connection with the rezoning of the Project Site and imposes the following conditions which shall be subject to an Amended Declaration of Restrictions to be recorded at the Erie County Clerk's Office:

1. The Declarant shall comply with the requirements imposed by the NYS Department of Environmental Conservation relative to the Brownfield Clean Up Program in connection with the development of the Project Site.

2. No freestanding drive-thru fast food restaurants shall be permitted on the Project Site.

3. No freestanding drlve-tbru pharmacies shall be permitted on the Project Site.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

4. The Declarant agrees to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

The property for which this local law applies to consists of a portion of 330 Maple Road, legally described as follows:

PORTION OF 330 MAPLE ROAD:

All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 1619.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly at right angles and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 1350.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 1350.00 feet to the place of beginning, containing 21.3 acres of land, more or less.

Section 4. Validity.

This Local Law is adopted under the authority granted to the Town Board of the Town of Amherst pursuant to §§10(1)(ii)(a)(12), 20 and 27 of the Municipal Home Rule Law and §265 of the Town Law of the State of New York.

The invalidity of any provision of this Local Law shall not affect the validity of any other provision of this Local Law that can be given effect without such invalid provision.

Section 5. Effective Date.

This Local Law shall take effect immediately when it is filed in the Office of the Secretary of State in accordance with Section 27 of the Municipal Home Rule Law and published pursuant to Sections 130 & 133 of the Town Law and Chapter 28 of the Code of the Town of Amherst.

Francina J. Spoth
Town Clerk
Town of Amherst
County of Erie, State of New York

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 9

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

AMENDED DECLARATION OF RESTRICTIONS

THIS AMENDED DECLARATION OF RESTRICTIONS ("***Amended Declaration***") is made as of the ___ day of _____, 2025 by **716 SPORTS COMPLEX, LLC**, a limited liability company formed pursuant to the laws of the State of New York, with an address of _____ under facts and circumstances summarized by the following recitals:

WHEREAS, Declarant is the owner of real property consisting of a portion of 330 Maple Road in the Town of Amherst as described in the attached Scheule "1" (the "***Project Site***");

WHEREAS, during its meeting held on _____ __, 2025, the Town of Amherst Town Board ("***Town Board***") adopted Resolution Number 2025-____ ("***Resolution***") for the purpose of granting relief for zoning conditions imposed by the Town Board on June 2, 2008 in connection with the rezoning of 218 and 330 Maple Road from CF to GB and R--3 to MF-6, subject to conditions as set forth in the Resolution;

WHEREAS, this Amended Declaration has been executed by Declarant for the purpose of modifying and amending the Declaration of Restrictions as it pertain to the Project Site that was recorded at the Erie County Clerk's Office on June 2, 2008 at Liber 11147 of Deeds at Page 0967.

WHEREAS, the content of this Amended Declaration has been reviewed and approved by the Amherst Town Attorney's Office and the Town's Zoning Enforcement Officer.

NOW, THEREFORE, in exchange for good and valuable consideration the sufficiency of which is acknowledged, the Declarant, its successors and assigns, agrees to restrict the future use of the real property described in the attached Schedule "1" as follows:

1. The Declarant shall comply with the requirements imposed by the NYS Department of Environmental Conservation relative to the Brownfield Clean Up Program in connection with the development of the Project Site.

2. No freestanding drive-thru fast food restaurants shall be permitted on the Project Site.

3. No freestanding drlve-tbru pharmacies shall be permitted on the Project Site.

4. The Declarant agrees to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

The restrictions being established shall be binding on all parties claiming thereunder and shall run and touch the Project Site except that the recorded restrictions can be changed, modified or eliminated by a majority vote of the Town Board.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

IN WITNESS WHEREOF, the parties hereto have the full legal authority to execute this Amended Declaration of Restrictions.

716 SPORTS COMPLEX, LLC

By: _____

Title: _____

Print Name: _____

STATE OF NEW YORK)
ss.:
COUNTY OF ERIE)

On this __ day of _____, 202_, before me, the undersigned, a notary public in and for said state, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to the be the individual whose name is subscribed to within this instrument and acknowledged to me that he executed the same in his capacity, that they by his signature on the instrument, the individual or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

SCHEDULE 1

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 1619.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly at right angles and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 1350.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 1350.00 feet to the place of beginning, containing 21.3 acres of land, more or less.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 10

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

SP 2021-18
330 Maple Rd

EARTH DIMENSIONS, INC.
* Soil & Hydrogeologic Investigations * Wetland Delineations
1091 Jamison Road, Elma NY 14059
(716) 655-1717 * Fax (716) 655-2915 www.earthdimensions.com

August 12, 2021

W13J06d

Jeffrey Burroughs, PE
Town of Amherst Engineering Department
1100 North Forest Road
Williamsville, New York 14221

RECEIVED
AUG 13 2021
TOWN OF AMHERST
PLANNING DEPT.

Re: Preliminary Wetland Investigation – 31.5± acres
330 Maple Road (SBL# 55.03-1-10)
Town of Amherst, Erie County, New York

Dear Mr. Burroughs:

Earth Dimensions, Inc. (EDI) has completed a preliminary wetland investigation at the above referenced site for the purpose of identifying potential regulated wetlands and waterways. The site investigation was conducted on August 11, 2021. As depicted on the attached Preliminary Wetlands Map, EDI identified approximately 0.81± acre of wetland as defined by the U.S. Army Corps of Engineers (USACE) wetland delineation manuals. We believe the depicted wetlands are not regulated under the currently applicable Navigable Waters Protection Rule although a detailed wetland delineation would need to be completed and submitted to USACE with a request for a Jurisdictional Determination in order to confirm the non-jurisdictional status, should impacts be proposed to these features.

The New York State Department of Environmental Conservation (NYSDEC) On-line Resource Mapper (attached) does not depict any state regulated wetlands within or adjacent to the subject property. NYSDEC, thus, has no jurisdiction over any wetland within the project site.

Based on this site investigation, it is our professional opinion that as long as any proposed development avoids impacts to the depicted wetland, no further action is required in order to move forward with development. If impacts to the depicted wetland are proposed, a detailed wetland delineation is required to be completed and submitted to USACE along with a request for an Approved Jurisdictional Determination.

If you have any questions, please contact our office at (716) 655-1717 or email slivingstone@earthdimensions.com.

Very truly yours,
Earth Dimensions, Inc.

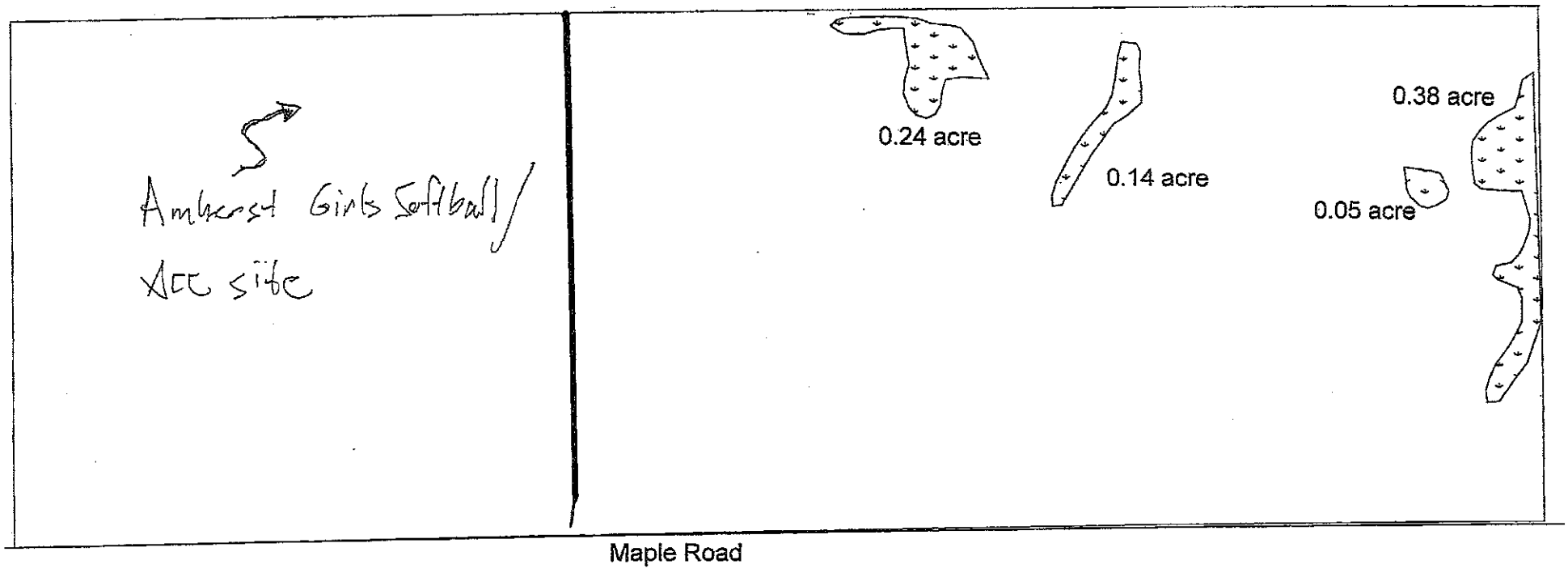
Scott J. Livingstone
Wetlands Operations Manager

Encl.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

W13J06d

300 Maple Road - Amherst, NY

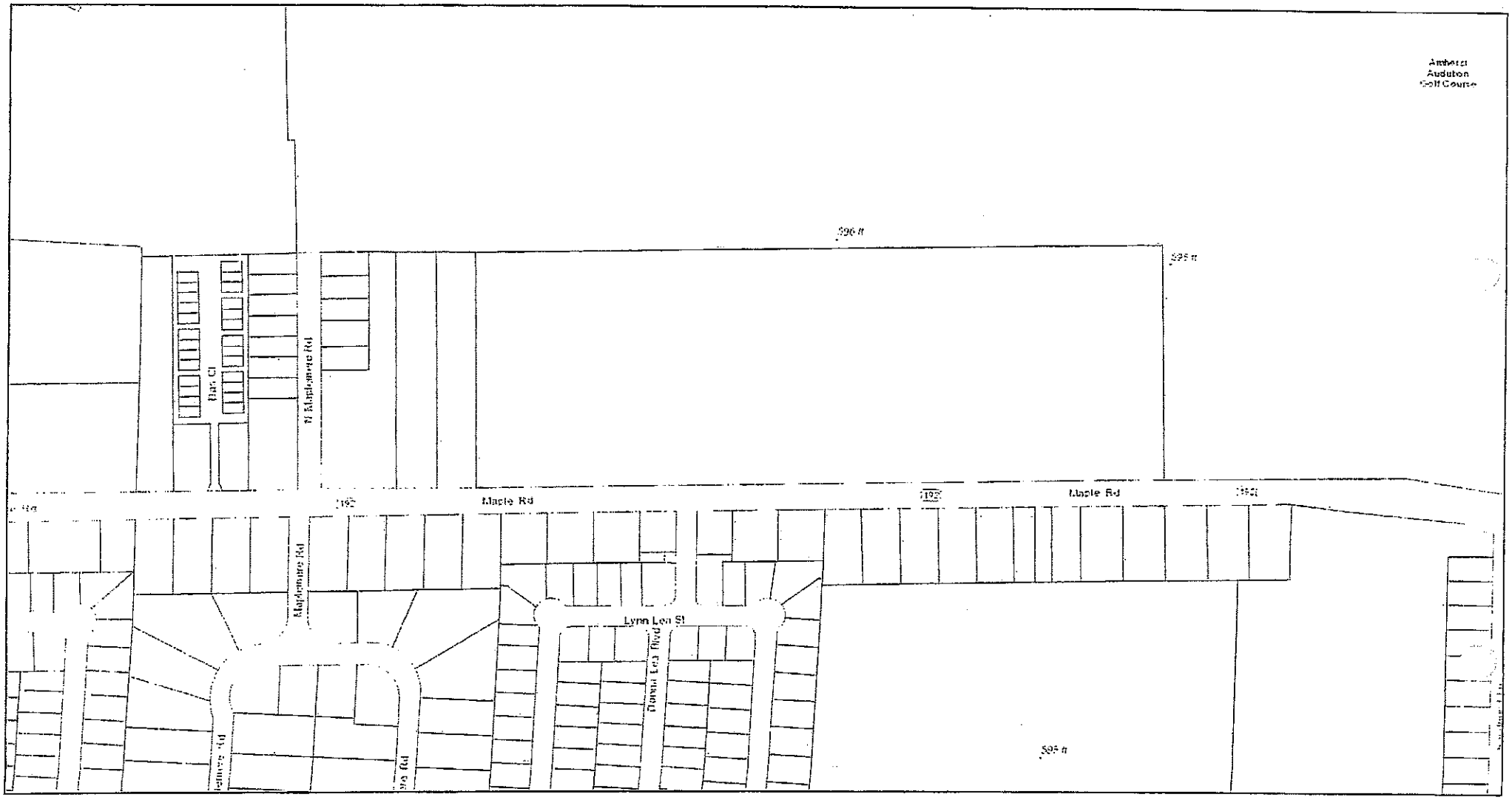


Total Wetland: 0.81 acre

Scale: 0 100' 200'

8/12/2021

Environmental Resource Mapper



August 11, 2021

1:4,514

0 0.04 0.08 0.16 mi

0 0.05 0.1 0.2 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordn Survey, Esri Japan, METI, Esri China (Hong Kong), OpenStreetMap contributors, and the GIS User Community

NYS Department of Environmental Conserv
ial docu

EXHIBIT 11

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ArcGIS Web Map



10/2/2025, 8:54:29 AM

Town Boundary

Parcels

1:4,514

0 0.04 0.07 0.15 mi

0 0.05 0.1 0.2 km

Maxar

ArcGIS Web AppBuilder

Packet Pg. 682

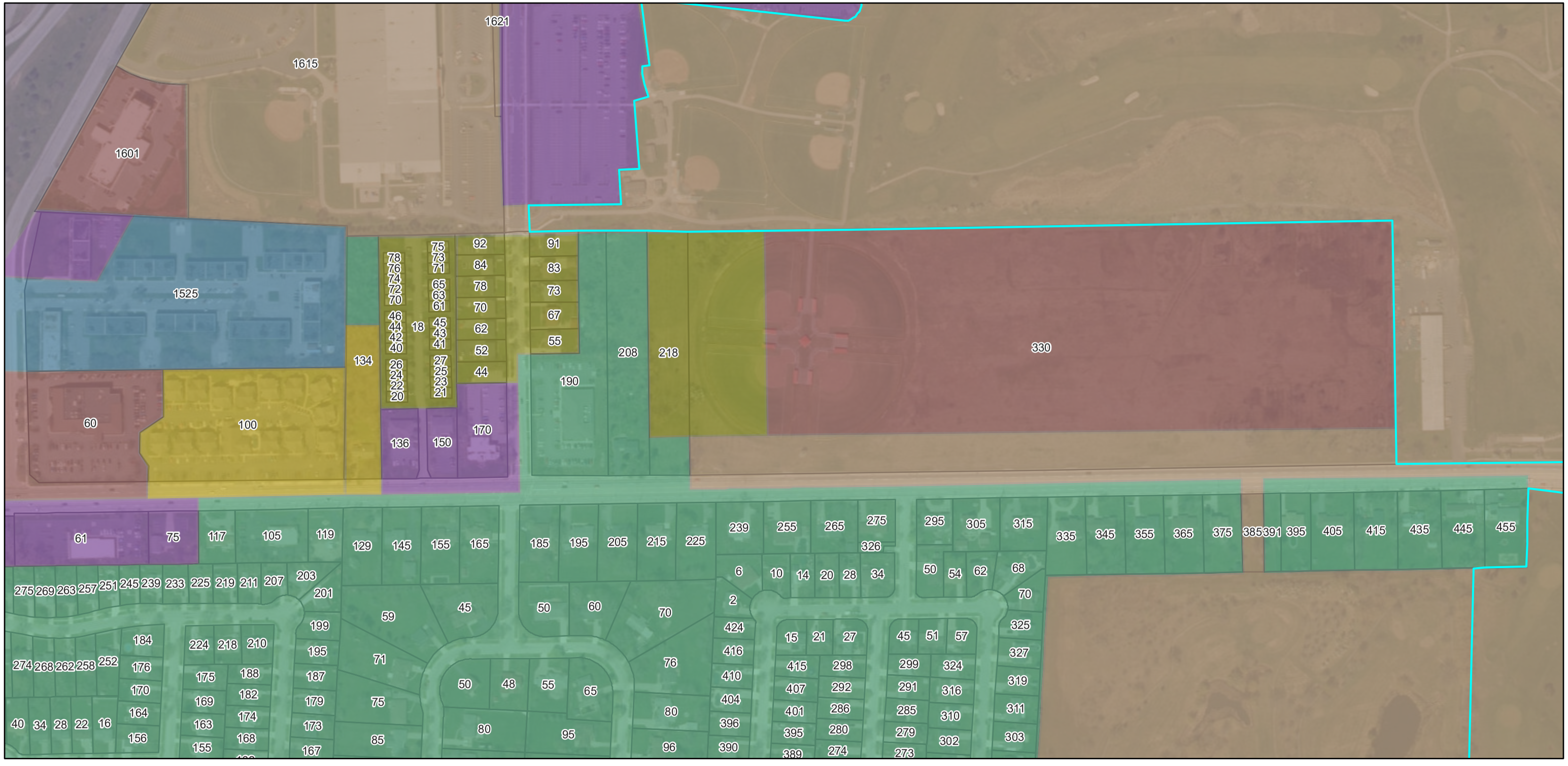
Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2.a

EXHIBIT 12

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ArcGIS Web Map



10/2/2025, 8:57:46 AM

Zoning

- MFR-5
- GB
- R-3
- OB
- R-4
- RC
- NB
- MFR-6
- SC-3
- SUNYUB
- Town Boundary

Parcels

1:4,514

0 0.04 0.07 0.15 mi

0 0.05 0.1 0.2 km

Maxar

ArcGIS Web AppBuilder

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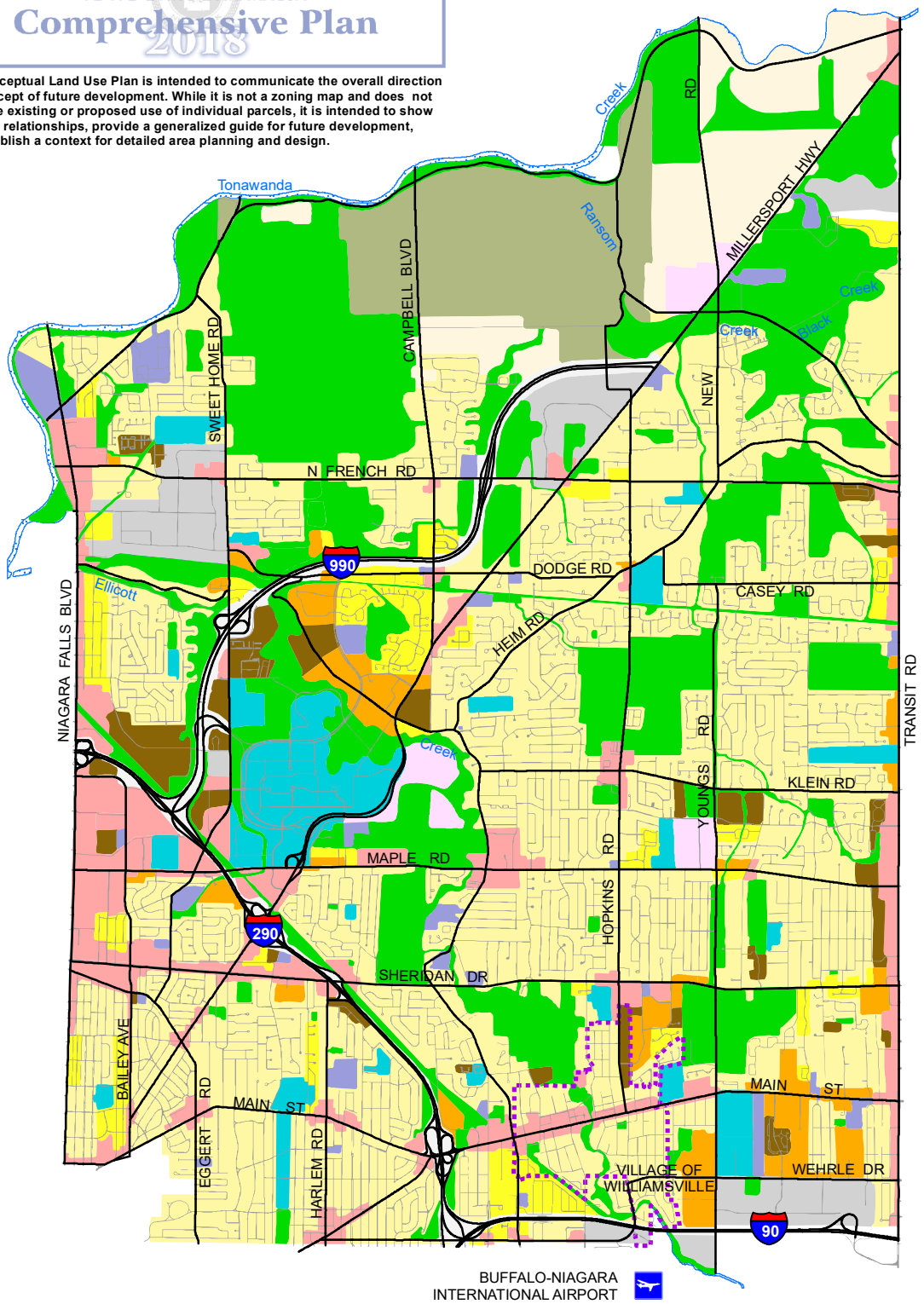
EXHIBIT 13

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Town of Amherst Bicentennial Comprehensive Plan

1818 2018

The Conceptual Land Use Plan is intended to communicate the overall direction and concept of future development. While it is not a zoning map and does not show the existing or proposed use of individual parcels, it is intended to show land use relationships, provide a generalized guide for future development, and establish a context for detailed area planning and design.



Conceptual Land Use Plan

- Rural Residential
- Single Family Residential
- Mixed Residential
- Medium Residential
- Commercial / Mixed Use*
- Special Use Center
- Commercial - Office
- Industrial - Office
- Community Facilities
- Educational Campus
- Recreation, Open Space & Greenways
- Agriculture
- Transportation
- Surface Water
- Village of Williamsville Boundary

* See Map Figure 6-A for Additional Designations

SOURCE NOTES:

Original Source Data Provided by the Town of Amherst Information Technology Department, URS Corporation and Wallace Roberts & Todd, LLC

Map Compiled by the Town of Amherst Planning Department

Date: December 2020

N

0 0.25 0.5 0.75 1 1.25

Miles

FIGURE 6

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 14

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

TOWN OF AMHERST

TOWN CLERK'S OFFICE

5583 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

Ashley Brownson
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 2025-849 "716 Sports Complex, LLC" is a true and exact copy of the Resolution enacted by the Town Board at its meeting on September 30, 2025.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of said Town of Amherst this 2nd day of October, 2025.

Francina J. Spoth
Town Clerk
Town of Amherst, Erie County, NY

Sworn to before me
This 2nd day of October, 2025

Notary Public

TIMOTHY J. KOLLER
No. 01KO6263885
Notary Public, State of New York
Qualified in Erie County
My Commission Expires 06/11/20 28

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Amherst Town Board
5583 Main Street
Williamsville, NY 14221
www.amherst.ny.us

Francina J. Spoth
Town Clerk

Meeting: 09/30/25 07:00 PM
Department: Town Clerk
Initiated by: **Timothy Koller**
Co-Sponsored by:

DOC ID: 30969 **RESOLUTION 2025-849** **ADOPTED**

716 Sports Complex, LLC

Suspension to Town Board Agenda of September 30, 2025

TO: The Honorable Town Board

FROM: Brian J. Kulpa, Town Supervisor

DATE: September 30, 2025

RE: 716 Sports Complex, LLC

Please authorize the Supervisor to sign an authorization letter for the purpose of allowing 716 Sports Complex, LLC and/or its consultants to file land use applications for the purpose of a proposed project to be developed on land owned by the Town of Amherst consisting of a portion of 330 Maple Road (SBL 55.03-1-10).

9/30/2025
A motion to approve was made by Supervisor Kulpa, seconded by Councilmember Berger and unanimously approved 4-0.

FINANCIAL IMPACT:

n/a

RESULT:	**ADOPTED [UNANIMOUS]**
MOVER:	Brian J. Kulpa, Supervisor
SECONDER:	Jacqualine Berger, Councilmember
AYES:	Kulpa, Lavin, Berger, Szukala
ABSENT:	Marinucci

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: 716 Sports Complex and Hotel		
Project Location (describe, and attach a general location map): Portion of 330 Maple Road [SBL No. 55.03-1-10]		
Brief Description of Proposed Action (include purpose or need): The proposed project consists of two (2) indoor dome sports complexes, each 275 ft x 500 ft totalling 275,000 sf, a 2-story, 50,000 sf commerical/retail building and a 75,000 sf five (5) story hotel. Development includes associated parking, internal roadways, pedestrian walkways, lighting, landscaping, and utility infrastructure. The action has been defined broadly to include all proposed site improvements and all required discretionary approvals and permits needed from municipal boards of the Town of Amherst and involved agencies. The proposed action is a Type I action pursuant to SEQRA and as such the Project Sponsor is requesting that the Town of Amherst conduct a coordinated environmental review pursuant to SEQRA.		
Name of Applicant/Sponsor: 716 Sports Complex, LLC c/o Sean Hopkins, Esq.	Telephone: 716.510-4338 E-Mail: shopkins@hsmlegal.com	
Address: 35 California Drive, Suite 100		
City/PO: Williamsville	State: NY	Zip Code: 14221
Project Contact (if not same as sponsor; give name and title/role):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Town of Amherst	Telephone: E-Mail:	
Address: 5583 Main Street		
City/PO: Williamsville	State: NY	Zip Code: 14221

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	Application for Relief of Zoning Conditions	October 2, 2025
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Site Plan Approval	October 2025
c. City, Town or Village Zoning Board of Appeals ☑Yes ☐No	Zoning Board of Appeals - Area Variances	October 2025
d. Other local agencies ☑Yes ☐No	IDA - PILOT	To be Determined
e. County agencies ☑Yes ☐No	ECDPW - Highway Work Permit	To be Determined
f. Regional agencies ☐Yes ☐No		
g. State agencies ☑Yes ☐No	NYSDEC - SPDES and DSCA	October 2025
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):

Remediaton Sites:C915207, 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: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
A 100-foot width of property frontage along Maple Road is zoned Recreation Conservation District (RC), while the remainder of the property is General Business (GB).

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Amherst Central School District

b. What police or other public protection forces serve the project site?
Town of Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?
Volunteer Fire Department

d. What parks serve the project site?
There are various parks that are accessible from the project site.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Sports complex, retail space and hotel

b. a. Total acreage of the site of the proposed action? 21.3 acres
b. Total acreage to be physically disturbed? 19.0 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 21.3 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☑ Yes ☐ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated 2
- Anticipated commencement date of phase 1 (including demolition) March month 2026 year
- Anticipated completion date of final phase Sep month 2027 year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

Phase 1 includes the domes and commercial buildings, scheduled to be substantially complete by May of 2027. The hotel will be developed in Phase 2 and constructed by the hotel developer under a separate project schedule, unknown at this time.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2.a

f. Does the project include new residential uses? ☐Yes ☑No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑Yes ☐No

If Yes,

i. Total number of structures 4

ii. Dimensions (in feet) of largest proposed structure: 100' height; 275' width; and 500' length

iii. Approximate extent of building space to be heated or cooled: 400,000 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑Yes ☐No

If Yes,

i. Purpose of the impoundment: Stormwater management

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑Other specify: Runoff from impervious surfaces

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: .57 acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐Yes ☑No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i .What is the purpose of the excavation or dredging?

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards):
- Over what duration of time?

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No
If yes, describe.

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☐No

ix. Summarize site reclamation goals and plan:

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☑Yes ☐No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): USACE Non-Jurisdictional wetlands mapped by Earth Dimensions, Inc. dated August 12, 2021

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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: 44750 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑ Yes ☐ No
If Yes:

- Name of district or service area: Erie County Water Authority
- Does the existing public water supply have capacity to serve the proposal? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No
- Do existing lines serve the project site? ☑ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☑ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 44750 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 Sewer Treatment Plant
- Name of district: Town of Amherst Consolidated 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: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑ Yes ☐ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or 15.3 acres (impervious surface)

_____ Square feet or 21.3 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)?

Directed to on-site stormwater management facility for treatment and detention then directed to existing off-site underground municial stormwater main on Maple Road.

- 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: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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): 0

iii. Parking spaces: Existing 0 Proposed 500 Net increase/decrease +500

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: New full movement driveway on Maple Road

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: TBD

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): Local grid

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7:00 to 5:00
- Saturday: As needed
- Sunday: Not Applicable
- Holidays: Not Applicable

ii. During Operations:

- Monday - Friday: 7:00 to 10:00
- Saturday: 7:00 to 10:00
- Sunday: 7:00 to 10:00
- Holidays: TBD

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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:

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:

Dark sky compliant lighting that complies with the requirements contained in the Zoning Code.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: TBD tons per TBD (unit of time)
- Operation : TBD tons per TBD (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: TBD. Recycle Materials to the greatest extent possible
- Operation: TBD

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: TBD
- Operation:

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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): Athletic fields and golf course

ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0	15.3	+15.3
• Forested	1.7	0	-1.7
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	19.6	6	-13.6
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____	21.3	21.3	0

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No
If Yes,
i. Identify Facilities:

_____
_____

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): C915207
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____
The contamination on the Project Site has previously been remediated per the NYSDEC BCP Program requirements. A copy of the Certificate of Completion issued by the NYSDEC on May 7, 2012 is provided at Attachment "A".

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): C915207, C915291

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____
_____

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2.a

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? 8 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:

Od - Odessa silt loam (D)	79.0 %
SaA - Schoharie silt loam (D)	21.0 %
	%

d. What is the average depth to the water table on the project site? Average: 1.75 feet

e. Drainage status of project site soils:

☐ Well Drained:	0 % of site
☐ Moderately Well Drained:	0 % of site
☑ Poorly Drained	100 % of site

f. Approximate proportion of proposed action site with slopes:

☑ 0-10%:	100 % of site
☐ 10-15%:	0 % of site
☐ 15% or greater:	0 % of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

m. Identify the predominant wildlife species that occupy or use the project site: _____
Typical suburban species _____ _____ _____
_____ _____ _____

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
_____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:
i. Species and listing (endangered or threatened): _____
_____
_____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:
i. Species and listing: _____
_____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☐ No
If yes, give a brief description of how the proposed action may affect that use: _____
_____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☐ No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____
_____
_____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple 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.

A copy of the No Impact Determination Letter issued by the NYS Office of Parks, Recreation and Historic Preservation on September 24, 2025 is provided at Attachment "B".

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name 716 Sport Complex, LLC Date October 1, 2025

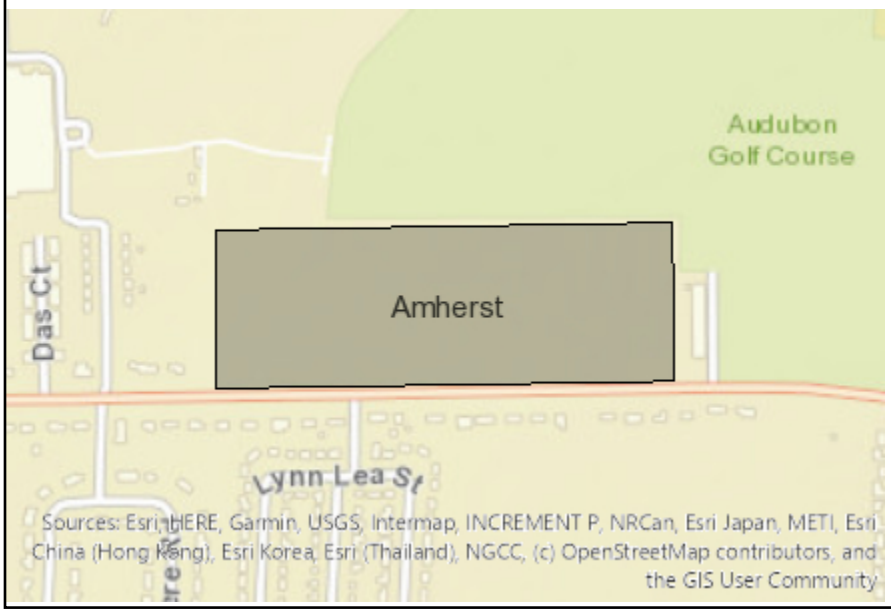
Signature _____ Title Project Engineer

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

PRINT FORM

EAF Mapper Summary Report

Tuesday, September 30, 2025 3:



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 to confirm data provided by the Mapper or to obtain data not provided by the Mapper.



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]	Remediaton Sites:C915207, NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Yes - Digital mapping data for Spills Incidents are not available for this location. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Yes
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Yes
E.1.h.i [DEC Spills or Remediation Site - DEC ID Number]	C915207
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	C915207, C915291
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.ii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT 1 OF PART 1 OF FULL EAF

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

NYSDEC BROWNFIELD CLEANUP PROGRAM (BCP)

CERTIFICATE OF COMPLETION

CERTIFICATE HOLDER(S):

Name	Address
BUFFALO-MAPLE ROAD, LLC AND MAPLE ROAD LODGING, LLC	570 Delaware Avenue, Buffalo, NY 14202

BROWNFIELD CLEANUP AGREEMENT:

Application Approval: 8/26/12 **Agreement Execution:** 9/22/06 **Agreement Index No.:**B9-0724-06-07

Application Approval Amendment: 5/9/07 **Agreement Execution Amendment:** 6/18/07

SITE INFORMATION

Site No.: C915207 **Site Name:** 330 Maple Road Site
Site Owner: Buffalo-Maple Road, LLC
Street Address: 330 Maple Road
Municipality: Williamsville **County:** Erie **DEC Region:** 9
Site Size: 26.000 Acres
Tax Map Identification Number(s): Portion of 55.03-1-10
Percentage of site located in an EnZone: 0 > 49 %

A description of the property subject to this Certificate is attached as Exhibit A and a site survey is attached as Exhibit B.

CERTIFICATE ISSUANCE

This Certificate of Completion, hereinafter referred to as the "Certificate," is issued pursuant to Article 27, Title 14 of the New York State Environmental Conservation Law ("ECL").

This Certificate has been issued upon satisfaction of the Commissioner, following review by the Department of the final engineering report and data submitted pursuant to the Brownfield Site Cleanup Agreement, as well as any other relevant information regarding the Site, that the applicable remediation requirements set forth in the ECL have been or will be achieved in accordance with the time frames, if any, established in the remedial work plan.

The remedial program for the Site has achieved a cleanup level that would be consistent with the following categories of uses (actual site use is subject to local zoning requirements):

Allowable Uses under the BCP: Residential, Restricted-Residential, Commercial, and Industrial
Cleanup Track: Track 2: Restricted use with generic soil cleanup objectives

Tax Credit Provisions for Entities Taxable Under Article 9, 9-A, 32, and 33:
Site Preparation and On-Site Groundwater Remediation Credit Component Rate is 12 %.
Tangible Property Credit Component Rate is 12 %.

Tax Credit Provisions for Entities Taxable Under Article 22 & S Corporations:
Site Preparation and On-Site Groundwater Remediation Credit Component Rate is 10 %.
Tangible Property Credit Component Rate is 10 %.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

LIABILITY LIMITATION

Upon issuance of this Certificate of Completion, and subject to the terms and conditions set forth herein, the Certificate holder(s) shall be entitled to the liability limitation provided in ECL Section 27-1421. The liability limitation shall run with the land, extending to the Certificate holder's successors or assigns through acquisition of title to the Site and to a person who develops or otherwise occupies the Site, subject to certain limitations as set forth in ECL Section 27-1421. The liability limitation shall be subject to all rights reserved to the State by ECL Section 27-1421.2 and any other applicable provision of law.

CERTIFICATE TRANSFERABILITY

This Certificate may be transferred to the Certificate holder's successors or assigns upon transfer or sale of the Site as provided by ECL Section 27-1419.5 and 6NYCRR Part 375-1.9.

CERTIFICATE MODIFICATION/REVOCATION

This Certificate of Completion may be modified or revoked by the Commissioner following notice and an opportunity for a hearing in accordance with ECL Section 27-1419 and 6NYCRR Part 375-1.9(e) upon a finding that:

(1) either the Applicant or the Applicant's successors or assigns have failed to comply with the terms and conditions of the Brownfield Site Cleanup Agreement;

(2) the Applicant made a misrepresentation of a material fact tending to demonstrate that it was qualified as a Volunteer;

(3) either the Applicant or the Applicant's successors or assigns made a misrepresentation of a material fact tending to demonstrate that the cleanup levels identified in the Brownfield Site Cleanup Agreement were reached;

(4) there is good cause for such modification or revocation;

(5) either the Applicant or the Applicant's successors or assigns failed to manage the controls or monitoring in full compliance with the terms of the remedial program;

(6) the terms and conditions of the environmental easement have been intentionally violated or found to be not protective or enforceable.

The Certificate holder(s) (including its successors or assigns) shall have thirty (30) days within which to cure any deficiency or to seek a hearing. If the deficiency is not cured or a request for a hearing received within such 30-day period, the Certificate shall be deemed modified or vacated on the 31st day after the Department's notice.

Joseph J. Martens
Commissioner
New York State Department of Environmental Conservation

By: _____ Date: May 7, 2012
Robert W. Schick, P.E., Acting Director
Division of Environmental Remediation

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT 2 OF PART 1 OF FULL EAF

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

September 24, 2025

Joseph Bognanno
300 State Street
Rochester, NY 14614

Re: DEC
716 Sports
Town of Amherst, Erie County, NY
25PR08945

Dear Joseph Bognanno:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Sydney Snyder at the following email address:

Sydney.Snyder@parks.ny.gov

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

LaBella
Powered by partnership.

October 2, 2025

Mr. Frank Ciminelli
Arc Building Partners
100 South Elmwood Avenue, Suite 100
Buffalo, NY 14202

RE: Traffic Impact Report for Proposed Sports Complex and Hotel
330 Maple Road, Town of Amherst, Erie County, New York
LaBella Project No.: 2254561

Dear Mr. Ciminelli:

LaBella Associates (LaBella) has completed a Due Diligence Traffic Analysis for the proposed 716 Sports Fieldhouse development, to be located in the Town of Amherst at 330 Maple Road. This assessment is based on industry-standard engineering guidelines and the Concept Plan prepared by LaBella Associates, dated October 1, 2025.

1. Project Description

The subject site is located along the north side of Maple Road and situated between the Audubon Town Park baseball fields and the Amherst Parks Department Building. Exhibit 1 is an aerial image that depicts the subject site, study intersections, and key landmarks.



Exhibit 1 – Site Location & Study Intersections

The proposed project generally consists of an athletic community center comprised of two 125,000 square-foot sports domes that will house a full-size turf football/lacrosse/soccer field, a 200 meter long 6-lane banked track, and six basketball/volleyball/pickleball courts. A two-story, 50,000-square-foot building will connect the two sports domes, and it will be comprised of a 25,000-square-foot fitness center, a 20,000-square-foot core lobby (Locker Room/Restroom), and a 5,000-square-foot space for member amenities (Restaurant/Snack Bar). Lastly, a five-story 150-room hotel will be located on the site to support the proposed development. The project will be supported by +/- 500 parking spaces. Access to the site will be provided via a full-movement driveway on Maple Road. The analysis herein considers the proposed driveway operating under signal control.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2. Existing Conditions

Study Area Roadways

Maple Road is classified as a Principal Arterial – Other (no control of access) roadway and is under the jurisdiction of the Erie Country Department of Public Works. The roadway runs primarily east-west through the Town of Amherst. In the vicinity of the subject site, Maple Road provides one 11-foot-wide travel lane and one 14-foot-wide travel in each direction, with a 15-foot-wide two-way left-turn lane, and sidewalks are located on both sides of the roadway. There is no shoulder near the subject site. The posted speed limit is 45-mph.

NYS Route 263 (a.k.a. Millersport Highway) is classified as a Principal Arterial – Other (no control of access) roadway and is under the jurisdiction of the New York State Department of Transportation (NYSDOT). The roadway primarily north-south through the Town of Amherst and is also known as Millersport Highway. In the vicinity of the subject site, Millersport Highway provides two 12-foot-wide travel lanes in both directions, with a landscaped split median that varies in width. There are no sidewalks along this roadway. The posted speed limit is 45-mph.

North Maplemere Road is classified as an Urban Local roadway and is under the jurisdiction of the Town of Amherst. The roadway runs north-south from Maple Road to Millersport Highway. In the vicinity of the subject site, North Maplemere Road provides a 32-foot-wide cross-section with travel lanes in both directions. It should be noted that the roadway narrows to a 20-foot-wide cross-section approximately 700-feet from the intersection of Maple Road and North Maplemere Road. Sidewalks are located on both sides of the roadway. The posted speed limit is 30-mph.

Study Intersections

Maple Road and Flint Road is a four-leg signalized intersection. The eastbound Maple Road approach provides an exclusive left-turn lane, two through lanes, and an exclusive right-turn lane. The westbound Maple Road approach provides an exclusive left-turn only lane, a through lane, and a shared through/right-turn lane. The northbound and southbound Flint Road approaches provide an exclusive left-turn lane and a shared through/right-turn lane. Pedestrian accommodations at the intersection include curb ramps, marked crosswalks, and pedestrian signals with push buttons on all approaches. The study utilized signal timing data provided by the Erie County Department of Public Works, which is included in Attachment A. Exhibit 2 depicts an aerial image of the study intersection.



Exhibit 2 – Maple Road & Flint Road

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Maple Road and NYS Route 263 (a.k.a. Millersport Highway) Southbound Ramps is a three-leg signalized intersection. The eastbound Maple Road approach consists of one exclusive left-turn lane and two through lanes. The westbound Maple Road approach provides two through lanes and an exclusive right-turn lane. The southbound NYS Route 263 ramps approach provides an exclusive left-turn lane and an exclusive right-turn lane. The southbound approach provides curb ramps, marked crosswalks, and pedestrian signals with a push buttons. The study utilized signal timing data provided by the New York State Department of Transportation (NYSDOT), which is included in Attachment A. Exhibit 3 depicts an aerial image of the study intersection.



Exhibit 3 – Maple Road & NYS Route 263 SB Ramps

Maple Road and NYS Route 263 (a.k.a. Millersport Highway) Northbound Ramps is a four-leg signalized intersection. The eastbound Maple Road approach provides an exclusive left-turn lane and two through lanes. The westbound Maple Road approach provides one through lane and one through/right-turn lane. The northbound NYS Route 263 exit ramp approach provides an exclusive left-turn lane and a shared through/right-turn lane. It should be noted that there is a one-way entrance ramp at this intersection. Pedestrian accommodation at the intersection includes curb ramps, marked crosswalks, and pedestrian signals with push buttons across the northbound and southbound approaches. The study utilized signal timing data provided by the NYSDOT, which is included in Attachment A. Exhibit 4 depicts an aerial image of the study intersection.



Exhibit 4 – Maple Road & NY Route 263 NB Ramps

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Maple Road and N Maplemere Road is a four-leg signalized intersection. The eastbound and westbound Maple Road approaches provide an exclusive left-turn lane, a through lane, and a shared through/right-turn lane. The northbound N Maplemere Road approach provides a shared left-turn/through/right-turn lane. The southbound N Maplemere Road approach provides an exclusive left-turn lane and a shared through/right-turn lane. Pedestrian accommodations at the intersection include curb ramps, marked crosswalks, and pedestrian signals with push buttons on all approaches. The study utilized signal timing data provided by the Erie County Department of Public Works, which is included in Attachment A. Exhibit 5 depicts an aerial image of the study intersection.

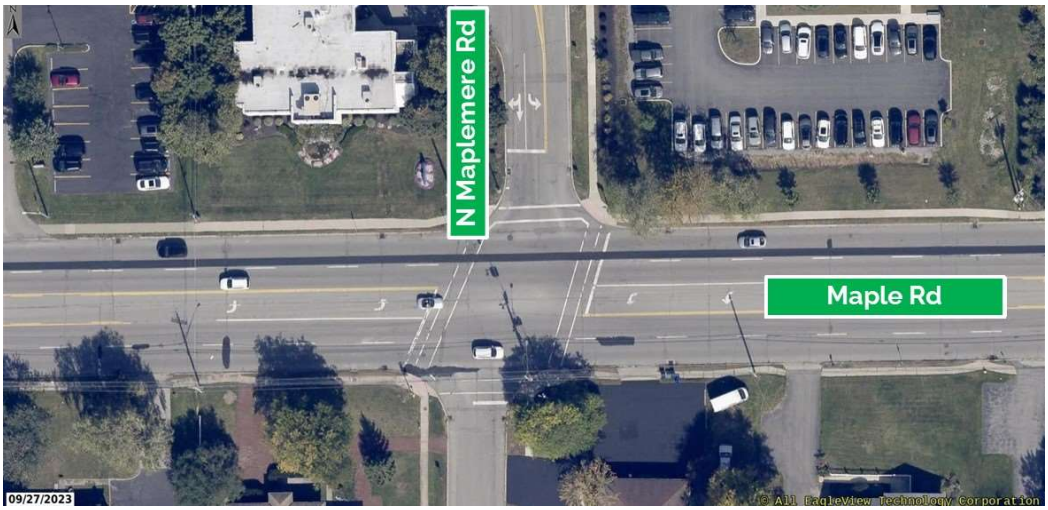


Exhibit 5 – Maple Road & N Maplemere Road

Maple Road and N Forest Road is a four-leg signalized intersection. The eastbound and westbound Maple Road approaches provide an exclusive left-turn lane, two through lanes, and an exclusive right-turn lane. The northbound and southbound N Forest Road approaches provide an exclusive left-turn lane, a through lane, and an exclusive right-turn lane. Pedestrian accommodations at the intersection include curb ramps, marked crosswalks, and pedestrian signals with push buttons on all approaches. The study utilized signal timing data provided by the Erie County Department of Public Works, which is included in Attachment A. Exhibit 6 depicts an aerial image of the study intersection.

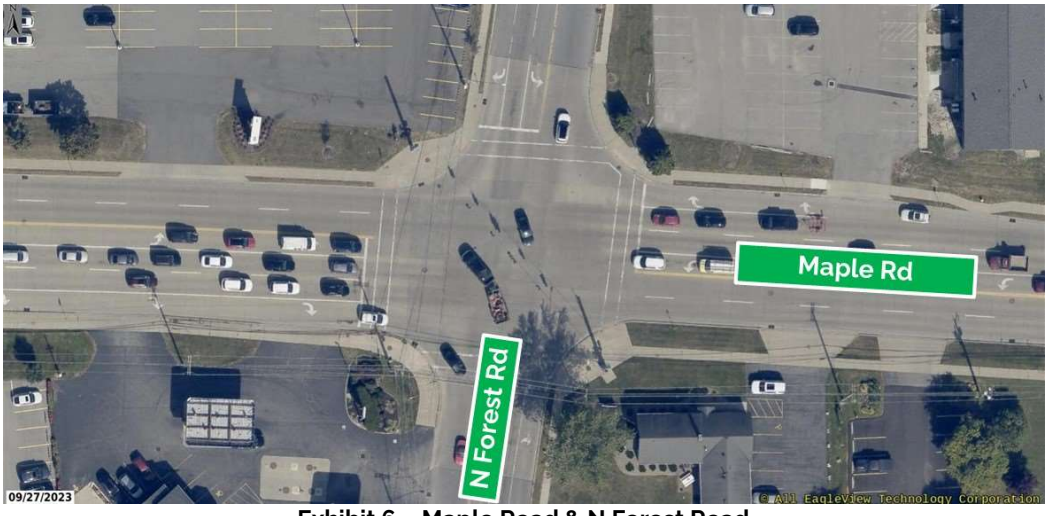


Exhibit 6 – Maple Road & N Forest Road

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

N Maplemere Road/Coventry Road and NYS Route 263 (a.k.a. Millersport Highway) is a four-leg signalized intersection. The eastbound and westbound Millersport Highway approaches provide an offset exclusive left-turn lane, a through lane, and a shared through/right-turn lane. The northbound N Maplemere Road approach provides a shared left-turn/through lane and an exclusive right-turn lane. The southbound Coventry Road approach provides a shared left-turn/through lane and an exclusive right-turn lane. It should be noted that Millersport Highway has a landscaped median. Pedestrian accommodations include curb ramps, a marked crosswalk, and pedestrian signals with push buttons across the westbound approach. The study utilized signal timing data provided by the NYSDOT, which is included in Attachment A. Exhibit 7 depicts an aerial image of the study intersection.

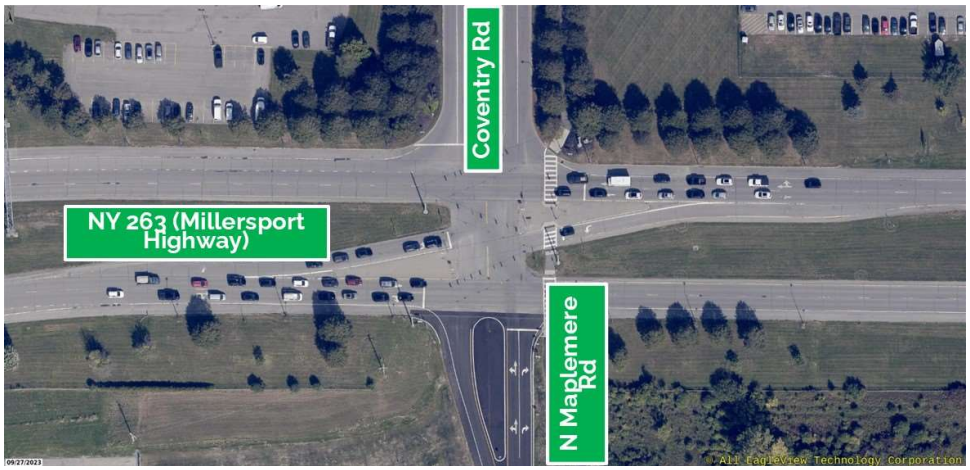


Exhibit 7 – NYS Route 263 & N Maplemere Road/Coventry Road

Collision Analysis

A collision analysis was performed for the study roadways and intersections based on data obtained from NYSDOT. The analysis included the review of 67 crashes over a three-year period between August 22, 2022, and August 22, 2025. Detailed collision summary tables are shown below in Tables 1-1 through 1-6.

Table 1-1: Maple Road and Flint Road Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	0	2	1	2	0	1	0	1	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	1	1	0	1	0	1	0	0	0	0	0	0
Left-Turn	1	0	0	2	1	0	0	1	0	0	0	0
Right-Turn	0	2	1	0	0	0	0	0	0	0	0	0
Right Angle	0	0	1	1	0	0	0	0	0	0	0	0
Fixed Object	0	1	0	0	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	1	0	0	0	1	0	0	0	0	0
Other	1	0	0	0	1	0	0	0	0	0	0	0
Total	3	6	4	6	2	2	1	2	0	0	0	0
Three-Year Total	19				7				0			

Table 1-1 shows that 19 collisions were reported at this intersection over the three-year period. Out of the 19 collisions, seven of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and one collision involving a pedestrian resulting in an injury.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 1-2: Maple Road and CR 263 SB Ramps Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	0	0	0	0	0	0	0	0	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	0	0	0	0	0	0	0	0	0	0	0
Left-Turn	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn	0	0	0	0	0	0	0	0	0	0	0	0
Right Angle	0	0	0	0	0	0	0	0	0	0	0	0
Fixed Object	0	0	0	0	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Three-Year Total	**0**				**0**				**0**			

Table 1-2 shows that zero collisions were reported at this intersection over the three-year period. Out of the zero collisions, zero of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Table 1-3: Maple Road and NYS Route 263 NB Ramps Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	1	1	0	1	0	0	0	1	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	0	0	0	0	0	0	0	0	0	0	0
Left-Turn	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn	0	0	1	0	0	0	0	0	0	0	0	0
Right Angle	0	0	0	0	0	0	0	0	0	0	0	0
Fixed Object	0	0	0	1	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	1	1	2	0	0	0	1	0	0	0	0
Three-Year Total	5				1				0			

Table 1-3 shows that five collisions were reported at this intersection over the three-year period. Out of the five collisions, one of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 1-4: Maple Road and N Maplemere Road Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	0	1	0	0	0	0	0	0	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	0	0	0	0	0	0	0	0	0	0	0
Left-Turn	0	2	0	1	0	2	0	0	0	0	0	0
Right-Turn	0	0	0	0	0	0	0	0	0	0	0	0
Right Angle	0	0	0	0	0	0	0	0	0	0	0	0
Fixed Object	0	0	0	1	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	1	0	0	0	0	0	0	0	0	0
Total	0	3	1	2	0	2	0	0	0	0	0	0
Three-Year Total	6				2				0			

Table 1-4 shows that six collisions were reported at this intersection over the three-year period. Out of the six collisions, two of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Table 1-5: Maple Road and N Forest Road Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	1	2	1	1	0	0	1	0	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	1	1	1	0	0	0	0	0	0	0	0
Left-Turn	1	2	3	0	1	1	1	0	0	0	0	0
Right-Turn	0	0	0	1	0	0	0	0	0	0	0	0
Right Angle	0	2	4	0	0	0	1	0	0	0	0	0
Fixed Object	1	0	0	0	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	1	0	0	0	1	0	0	0	0	0	0
Other	1	1	1	0	0	0	0	0	0	0	0	0
Total	4	9	10	3	1	2	3	0	0	0	0	0
Three-Year Total	26				6				0			

Table 1-5 shows that 26 collisions were reported at this intersection over the three-year period. Out of the 26 collisions, six of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 1-6: N Maplemere Road/Coventry Road and NYS Route Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	1	2	1	0	0	0	0	0	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	1	1	0	0	0	0	0	0	0	0	0
Left-Turn	0	0	1	1	0	0	1	0	0	0	0	0
Right-Turn	0	0	0	1	0	0	0	0	0	0	0	0
Right Angle	0	0	0	0	0	0	0	0	0	0	0	0
Fixed Object	0	0	1	0	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	1	0	0	0	1	0	0	0	0	0	0
Total	1	4	4	2	0	1	1	0	0	0	0	0
Three-Year Total	11				2				0			

Table 1-6 shows that 11 collisions were reported at this intersection over the three-year period. Out of the 11 collisions, two of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Data Collection

LaBella collected turning movement counts (TMCs) at the study intersections on Thursday, September 11, 2025, and Saturday, September 13, 2025. The counts were conducted during the typical weekday PM and Saturday Midday peak periods – 4:00 p.m. to 7:00 p.m. and 11:00 a.m. to 2:00 p.m., respectively. The typical weekday AM peak period – 7:00 a.m. to 9:00 a.m. – was not evaluated as the weekday volumes are highest during thew weekday PM peak period. Furthermore, it should be noted that the University of Buffalo football team had an away game during the Saturday count period. The selection of an away game Saturday was done intentionally to avoid capturing abnormal traffic patterns that result from home games. Based on these counts, the observed network peak hours were 4:30 p.m. to 5:30 p.m. during the weekday PM peak period and 12:15 p.m. to 1:15 p.m. during the Saturday Midday peak period. These 2025 Existing traffic volumes formed the basis of the traffic analysis herein and are shown in Figure 1. The raw TMC data is included under Attachment B.

LaBella also collected continuous traffic volume, speed, and vehicle classification data along Maple Road in proximity to the subject site's frontage from Friday September 5, 2025, through Saturday, September 13, 2025. The raw ATR data is included under Attachment C.

3. Traffic Assessment

Traffic Forecasting (i.e. No-Build Traffic Volumes)

To evaluate the impact of the proposed project, traffic projections were prepared for the design year of 2028. It should be noted that this design year was selected to provide a conservative analysis as it is expected that the project will be completed and occupied sooner than 2028. LaBella Associates reviewed the Pending Development Project page on the Town of Amherst website and determined that there are no projects that will have an effect on the study intersections.[1] In addition, historical traffic volume data from the NYSDOT Traffic Viewer was also reviewed. To provide a conservative analysis, a 1.50% annual growth rate was applied to the Existing 2025 traffic volumes and compounded over a three-year period. The 2028 No-Build traffic volumes are shown in Figure 2 for AM, Midday and PM peak hours. No-Build volumes represent the forecasted traffic volumes for 2028 *without* the proposed project.

[1] https://www.amherst.ny.us/content/development_projects_pending.php

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Trip Generation

The Institute of Transportation Engineers' (ITE) *Trip Generation Manual,* 12th Edition, is the industry-standard resource used for estimating trip generation for proposed land uses based on data collected at similar uses. Upon review of the *Trip Generation Manual*, the following Land Use Codes (LUC) were utilized for the study herein:

- LUC 495 "Recreational Community Center" – ITE Description: *A recreational community center is a stand-alone public facility similar to and including YMCAs. These facilities often include classes and clubs for adults and children, a day care or nursery school, meeting rooms and other social facilities, swimming pools and whirlpools, saunas, tennis, racquetball, handball, pickleball, basketball and volleyball courts, outdoor athletic fields/courts, exercise classes, weightlifting and gymnastics equipment, locker rooms, and a restaurant or snack bar. Public access is typically allowed, and a membership fee may be charged.*

- LUC 310 "Hotel" – ITE Description: *A hotel is a place of lodging that provides overnight accommodation and supporting facilities such as a full-service restaurant, concierge service, valet parking, cocktail lounge, meeting rooms, banquet room, and convention facilities. A hotel typically provides a swimming pool or another recreational facility such as a fitness room.*

Table 2 summarizes the weekday PM and Saturday Midday peak hour site-generated trips for the two components of the project based on the applicable independent variable (IV).

Table 2 – Summary of Peak Hour Trip Generation

Project Component	Land Use	IV	Weekday PM Peak Hour			Saturday Midday Peak Hour		
			Entering	Exiting	Total	Entering	Exiting	Total
Athletic Community Center	495	300 KSF	320	347	667	185	157	342
Hotel	310	150 Rooms	37	35	72	36	35	71
		Total	**357**	**382**	**739**	**221**	**192**	**413**

As shown in Table 2, the proposed project will generate 739 total trips during the weekday PM peak hour and 413 total trips during the Saturday Midday peak hour. There is no "pass-by" component associated with the proposed uses. It should be noted that the analysis herein does not take a credit for internal capture (i.e., trip sharing between the two components) to provide a conservative analysis.

Trip Distribution

It was assumed that the majority of trips (60%) will come from the west via Maple Road. The 60% is distributed along key roadways that intersect Maple Road such as NYS Route 263 (a.k.a. Millersport Highway) and Flint Road. The remaining trips (40%) will come from the east via Maple Road. These trip distributions are shown in Figure 3. The resulting project-generated trips are shown in Figure 4 for weekday PM and Saturday Midday peak hours.

Capacity Analysis

The capacity analysis relates traffic volumes to the physical characteristics of an intersection. Intersection evaluations were made using Synchro Version 12 and the procedures contained in the *Highway Capacity Manual (HCM), 7th Edition*. Table 3 and Table 4 summarize the results of the level of service calculations for the Existing, No-Build and Build conditions during the weekday PM and Saturday Midday peak hours, respectively. The Level of Service reports are included under Attachment C.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 3 – LOS Summary: Weekday PM Peak Hour

Approach	Lane Group	2025 Existing	2028 No-Build	2028 Build	Δ No-Build vs. Build
Maple Rd / Flint Rd					
Maple Rd, EB	L	B/18.3	B/19.5	C/20.3	+0.8
	T	C/23.1	C/24.6	C/26.1	+1.5
	R	C/25.0	C/26.8	C/27.5	+0.7
Maple Rd, WB	L	B/16.8	B/18.0	B/19.2	+1.2
	TR	C/23.8	C/25.6	C/26.9	+1.3
Flint Rd, NB	L	C/32.3	C/33.8	C/34.4	+0.6
	TR	C/30.0	C/30.1	C/31.0	+0.9
Flint Rd, SB	LT	C/26.1	C/26.0	C/26.4	+0.4
	R	D/43.8	D/45.9	D/46.7	+0.5
	Overall	**C/26.7**	**C/28.2**	**C/29.1**	**+0.9**
Maple Rd / NYS Route 263 SB Ramps					
Maple Rd, EB	L	A/5.5	A/5.9	A/6.4	+0.5
	T	A/4.2	A/4.3	A/4.5	+0.2
Maple Rd, WB	T	A/4.4	A/4.6	A/4.7	+0.1
	R	A/3.9	A/4.1	A/4.5	+0.4
NYS Route 263 SB Ramp, SB	L	C/29.9	C/29.7	C/29.7	0.0
	R	D/39.5	D/39.2	D/39.2	0.0
	Overall	**A/6.9**	**A/7.0**	**A/6.9**	**-0.1**
Maple Rd / NYS Route 263 NB Ramps					
Maple Rd, EB	L	D/41.6	D/48.1	E/73.0	+24.9
	T	C/20.3	C/21.9	C/24.6	+2.7
Maple Rd, WB	TR	C/24.6	C/27.0	C/32.8	+5.8
NYS Route 263 NB Ramps, NB	L	C/33.2	C/31.7	C/29.9	-1.8
	TR	E/74.8	E/75.5	F/105.9	+30.4
	Overall	**D/35.4**	**D/37.2**	**D/48.2**	**+11.0**
Maple Rd / N Maplemere Rd					
Maple Rd, EB	L	A/5.2	A/5.4	A/6.5	+1.1
	TR	A/9.2	A/9.7	B/11.5	+1.8
Maple Rd, WB	L	A/5.8	A/6.1	A/7.1	+1.0
	TR	A/9.2	A/9.6	B/11.4	+1.8
N Maplemere Rd, NB	LTR	C/26.4	C/26.5	C/26.5	0.0
N Maplemere Rd, SB	L	C/25.9	C/26.0	C/26.5	+0.5
	TR	C/27.3	C/27.5	C/27.5	0.0
	Overall	**B/10.6**	**B/11.0**	**B/12.6**	**+1.6**
Maple Rd / N Forest Rd					
Maple Rd, EB	L	C/20.9	C/22.8	C/29.9	+7.1
	T	C/33.0	D/37.3	D/42.3	+5.0
	R	C/22.4	C/23.8	C/25.0	+1.2
Maple Rd, WB	L	C/27.9	C/34.0	D/39.8	+5.8
	T	C/27.6	C29.9	C/33.4	+3.5
	R	C/22.4	C/23.8	C/25.0	+1.2
N Forest Rd, NB	L	C/28.2	C/28.3	C/38.6	+10.3
	T	D/43.3	D/45.2	D/45.6	+0.4
	R	D/36.7	D/37.1	D/37.3	+0.2
N Forest Rd, SB	L	C/32.8	C/34.8	D/35.6	+0.8
	T	C/34.1	C/34.4	D/36.3	+1.9
	R	C/29.3	C/29.4	C/31.8	+2.4
	Overall	**C/31.3**	**C/33.8**	**D/36.7**	**+2.9**
N Maplemere Rd/Coventry Rd and NYS Route 263					
NYS Route 263, EB	L	F/99.8	F/99.2	F/99.2	0.0
	TR	C/26.9	C/27.8	C/29.3	+1.5
NYS Route 263, WB	L	F/107.6	F/106.9	F/102.8	-4.1
	TR	C/31.2	C/32.4	C/32.4	0.0
N Maplemere Rd, NB	LT	F/83.4	F/83.4	F/83.3	-0.1
	R	E/79.9	E/79.6	F/81.9	+2.3
Coventry Rd, SB	LT	E/72.4	E/73.4	E/73.4	0.0
	R	F/171.4	F/190.6	F/190.6	0.0
	Overall	**E/60.4**	**E/63.7**	**E/64.7**	**+1.0**

EB, WB, NB, SB = Eastbound, Westbound, Northbound, and Southbound intersection approaches
L, T, R = Left-turn, Through, and/or Right-turn movements
X / X.X = Level of service / Average delay in seconds per vehicle

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 4 – LOS Summary: Saturday Midday Peak Hour

Approach	Lane Group	2025 Existing	2028 No-Build	2028 Build	Δ No-Build vs. Build
Maple Rd / Flint Rd					
Maple Rd, EB	L	B/11.8	B/12.2	B/12.4	+0.2
	T	B/15.4	B/16.1	B/16.6	+0.5
	R	B15.0	B/15.5	B/15.7	+0.2
Maple Rd, WB	L	B/10.9	B/11.3	B/11.7	+0.4
	TR	B/14.5	B/15.1	B/15.4	+0.3
Flint Rd, NB	L	C/27.1	C/27.3	C/27.4	+0.1
	TR	C/27.1	C/27.2	C/27.7	+0.5
Flint Rd, SB	LT	C/30.9	C/31.0	C/31.2	+0.2
	R	C/34.9	D/35.3	D/35.5	+0.2
	Overall	**B/16.9**	**B/17.4**	**B/17.7**	**+0.3**
Maple Rd / NYS Route 263 SB Ramps					
Maple Rd, EB	L	A/4.5	A/4.8	A/5.1	+0.3
	T	A/3.4	A/3.6	A/3.7	+0.1
Maple Rd, WB	T	A/3.6	A/3.8	A/3.9	+0.1
	R	A/3.2	A/3.4	A/3.6	+0.2
NYS Route 263 SB Ramp, SB	L	C/30.9	C/30.6	C/30.6	0.0
	R	D/41.9	D/41.4	D/41.4	0.0
	Overall	**A/6.1**	**A/6.3**	**A/6.1**	**-0.2**
Maple Rd / NYS Route 263 NB Ramps					
Maple Rd, EB	L	B/16.2	B/18.3	C/26.5	+7.2
	T	A/8.8	A/9.4	B/12.3	+2.9
Maple Rd, WB	TR	B/10.4	B/11.2	B/15.0	+3.8
NYS Route 263 NB Ramps, NB	L	D/42.5	D/41.4	D/36.8	-4.6
	TR	E/61.8	E/62.8	E/65.8	+3.0
	Overall	**C/20.3**	**C/21.1**	**C/24.9**	**+3.8**
Maple Rd / N Maplemere Rd					
Maple Rd, EB	L	A/5.1	A/5.3	A/6.0	+0.7
	TR	A/6.6	A/6.8	A/7.4	+0.6
Maple Rd, WB	L	A/6.3	A/6.4	A/6.4	0.0
	TR	B/10.5	B/10.9	B/11.8	+0.9
N Maplemere Rd, NB	LTR	C/28.0	C/28.1	C/28.1	0.0
N Maplemere Rd, SB	L	C/30.0	C/30.5	C/31.1	+0.6
	TR	C/31.9	C/32.3	C/32.3	0.0
	Overall	**B/11.5**	**B/11.8**	**B/12.2**	**+0.4**
Maple Rd / N Forest Rd					
Maple Rd, EB	L	B/11.1	B/11.6	B/12.3	+0.7
	T	B/15.4	B/16.1	B/17.0	+0.9
	R	B/12.7	B/13.2	B/13.9	+0.7
Maple Rd, WB	L	B/11.1	B/11.7	B/12.3	+0.6
	T	B/14.9	B/15.6	B/17.0	+1.4
	R	B/12.4	B/12.9	B/13.6	+0.7
N Forest Rd, NB	L	C/29.2	C/29.3	C/28.8	-0.5
	T	D/36.9	D/37.2	D/36.2	-1.0
	R	D/36.4	D/36.6	D/35.7	-0.9
N Forest Rd, SB	L	C/28.6	C/28.7	C/28.4	-0.3
	T	D/35.9	D/36.2	D/37.5	+1.3
	R	C/31.8	C/31.9	C/33.6	+1.7
	Overall	**C/20.4**	**C/20.9**	**C/21.5**	**+0.6**
N Maplemere Rd/Coventry Rd and NYS Route 263					
NYS Route 263, EB	L	F/114.0	F/113.0	F/113.0	0.0
	TR	B/11.4	B/11.8	B/12.8	+1.0
NYS Route 263, WB	L	F/104.0	F/103.6	F/101.9	-1.7
	TR	B/10.6	B/11.0	B/11.4	+0.4
N Maplemere Rd, NB	LT	F/84.2	F/84.0	F/82.6	-1.4
	R	F/86.6	F/86.6	F/86.8	+0.2
Coventry Rd, SB	LT	F/88.2	F/88.1	F/88.1	0.0
	R	F/101.7	F/101.4	F/101.4	0.0
	Overall	**C/29.8**	**C/30.0**	**C/31.4**	**+1.4**

EB, WB, NB, SB = Eastbound, Westbound, Northbound, and Southbound intersection approaches
L, T, R = Left-turn, Through, and/or Right-turn movements
X / X.X = Level of service / Average delay in seconds per vehicle

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Maple Road and Flint Road: The level of service analysis indicates that the intersection currently operates at an overall LOS C or better during the study peak hours and it will continue to do so in the No-Build and Build conditions. The maximum increase in overall delay between the No-Build and Build conditions is +0.9 second, which occurs during the weekday PM peak hour. The maximum increase in delay for an individual movement between the No-Build and Build conditions is +1.5 seconds during the weekday PM peak hour for the eastbound Maple Road through movement. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

Maple Road and NYS Route 263 SB Ramps: The level of service analysis indicates that the intersection currently operates at an overall LOS A during all peak hours and it will continue to do so in the No-Build and Build conditions. In fact, there will be a marginal decrease in the overall delay between the No-Build and Build conditions. The maximum increase in dealy for an individual movement between the No-Build and Build conditions is +0.5 seconds during the weekday PM peak hour for the eastbound left-turn movement. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

Maple Road and NYS Route 263 NB Ramps: The level of service analysis indicates that the intersection currently operates at an overall LOS D or better during the weekday PM and Saturday Midday peak hours and it will continue to do so in the No-Build and Build conditions. The maximum increase in overall delay between the No-Build and Build conditions is the +11.0, which occurs during the weekday PM peak hour. In the Build condition, there is a notable increase in delay in the northbound NYS Route 263 through/right-turn movement. LaBella investigated potential signal timing adjustments to mitigate the increase in delay in the Build condition during the weekday PM peak hour. Specifically, LaBella analyzed reallocated 5 seconds of green time from the mainline Maple Road movements to the northbound NYS Route 263 approach thus maintaining the existing cycle length. Table 5 summarizes the LOS results with these adjustments. The LOS reports are included under Attachment D.

Table 5 – LOS Summary: Weekday PM Peak Hour – Signal Timing Adjustments

Approach	Lane Group	2025 Existing	2028 No-Build	2028 Build w. Mitigation	Δ No-Build vs. Build w/ Mitigation
Maple Rd / NYS Route 263 NB Ramps					
Maple Rd, EB	L	D/41.6	D/48.1	F/98.1	+50.0
	T	C/20.3	C/21.9	C/29.2	+7.3
Maple Rd, WB	TR	C/24.6	C/27.0	D/40.0	+13.0
NYS Route 263 NB Ramps, NB	L	C/33.2	C/31.7	C/25.8	-5.9
	TR	E/74.8	E/75.5	E/69.4	-6.1
Overall		**D/35.4**	**D/37.2**	**D/44.8**	**+7.6**

EB, WB, NB, SB = Eastbound, Westbound, Northbound, and Southbound intersection approaches
L, T, R = Left-turn, Through, and/or Right-turn movements
X / X.X = Level of service / Average delay in seconds per vehicle

As shown in Table 5, the signal timing adjustments will result in the northbound NYS Route 263 approach operating with lower delays in the Build condition than the No-Build and Existing conditions. It should be noted that the reduction in time on the mainline does result in the eastbound Maple Road left-turn movment experiencing a degradation in LOS from a LOS D to a LOS F with an increase in delay of +50 seconds. However, the V/C ratio for the movement remain below 1.0 (0.69), which indicates that the approach will continue to have capacity in the Build condition with the signal timing adjustments. Based on the analysis, it is recommended that the signal timing adjustments be considered for implementation during the weekday PM peak hour. There are no impacts that require mitigation during the Saturday Midday peak hour.

Maple Road and N Maplemere Road: The level of service analysis indicates that the intersection currently operates at an overall LOS B during all peak hours and it will continue to do so in the No-Build and Build conditions. The maximum increase in overall delay between the No-Build and Build conditions is +1.6 second, which occurs during the weekday PM peak hour. The maximum increase in delay for an individual movement between the No-Build and Build conditions is +1.8 seconds during the weekday PM peak hour for the eastbound and westbound Maple Road through movements. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Maple Road and N Forest Road: The level of service analysis indicates that the intersection currently operates at an overall LOS C during all peak hours and it will continue to do so in the No-Build conditions. The overall LOS will degrade from a LOS C to a LOS D in the Build condition during the weekday PM peak hour. The overall LOS will remain an LOS C in the Build condition during the Saturday Midday peak hour. The maximum increase in overall delay between the No-Build and Build conditions is +2.9 second, which occurs during the weekday PM peak hour. The maximum increase in delay for an individual movement between the No-Build and Build conditions is +10.3 seconds during the weekday PM peak hour for the northbound Forest Road left-turn movement. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

NYS Route 263 and N Maplemere Road/Coventry Road: The level of service analysis indicates that the intersection currently operates at an overall LOS E during the weekday PM peak hour and an overall LOS C during the Saturday Midday peak hour. These conditions are expected to remain unchanged under No-Build and Build conditions. The maximum increase in overall delay between the No-Build and Build conditions is +1.4 second, which occurs during the Saturday Midday peak hour. The maximum increase in delay for an individual movement between the No-Build and Build conditions is +2.3 seconds during the weekday PM peak hour for the northbound N Maplemere Road right-turn movement. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

Maple Road and Site Driveway:

Due to the high volume of traffic along the mainline Maple Road approaches, it is recommended that the proposed driveway be signalized. A capacity analysis was conducted for the Maple Road/Site Driveway based on the following assumptions:

- Exclusive left-turn and right-turn lanes for the Site Driveway approach
- Exclusive left-turn lane for the eastbound Maple Road approach
- Semi-Actuated Uncoordinated with detection on the Site Driveway and eastbound Maple Road left-turn movements
- 60-second cycle length with a 40-second Minimum Recall split for the mainline Maple Road phases and a 20-second No Recall split for the Site Driveway phase

Table 6 summarizes the LOS results for the Maple Road/Site Driveway intersection based on these assumptions. The LOS reports are included under Attachment D.

Table 6 – LOS Summary: Maple Road/Site Driveway

Approach	Lane Group	Weekday PM Peak Hour	Saturday Midday Peak Hour
Maple Rd / Site Driveway			
Maple Rd, EB	L	D/35.9	B/11.8
	T	A/8.6	A/5.7
Maple Rd, WB	TR	A/8.2	A/6.1
Site Driveway, SB	L	C/21.5	B/15.1
	R	C/30.0	B/17.8
Overall		**B/12.3**	**A/7.2**

EB, WB, NB, SB = Eastbound, Westbound, Northbound, and Southbound intersection approaches
L, T, R = Left-turn, Through, and/or Right-turn movements
X / X.X = Level of service / Average delay in seconds per vehicle

As shown in Table 6, the level of service analysis indicates that the intersection will operate favorably under signal control. While a signal warrant analysis was not conducted, it is expected that MUTCD Warrant 3 "Peak-Hour" will be met. It is also expected that the site-generated trips will meet the AASHTO warrant criteria for an exclusive left-turn lane (5 or more peak hour left turns).

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

4. Conclusion

Based on the results of the traffic impact study completed for the proposed project, the following conclusions are presented:

- The proposed project generally consists of an athletic community center comprised of two 125,000 square-foot sports domes that will house a full-size turf football/lacrosse/soccer field, a 200 meter long 6-lane banked track, and six basketball/volleyball/pickleball courts. A two-story, 50,000-square-foot building will connect the two sports domes, and it will be comprised of a 25,000-square-foot fitness center, a 20,000-square-foot core lobby (Locker Room/Restroom), and a 5,000-square-foot space for member amenities (Restaurant/Snack Bar). Lastly, a five-story 150-room hotel will be located on the site to support the proposed development. The project will be supported by +/- 500 parking spaces. Access to the site will be provided via a full-movement driveway on Maple Road. The analysis herein considers the proposed driveway operating under signal control.

- LaBella collected turning movement counts (TMCs) at the study intersections on Thursday, September 11, 2025, and Saturday, September 13, 2025. The counts were conducted during the typical PM and Saturday MD peak periods – 4:00 p.m. to 7:00 p.m. and 11:00 a.m. to 2:00 p.m., respectively. *It should be noted that the University of Buffalo football team had an away game during the Saturday count period. This was done intentionally to avoid capturing abnormal traffic patterns that result from home games.* Based on these counts, the observed network peak hours were 4:30 p.m. to 5:30 p.m. during the weekday PM peak period and 12:15 p.m. to 1:15 p.m. during the weekend Midday peak period.

- To evaluate the impact of the proposed project, traffic projections were prepared for the design year of 2028. It should be noted that this design year was selected to provide a conservative analysis as it is expected that the project will be completed and occupied sooner than 2028. LaBella Associates reviewed the Pending Development Project page on the Town of Amherst website and determined that there are no projects that will have an effect on the study intersections. In addition, historical traffic volume data from the NYSDOT Traffic Viewer was also reviewed. To provide a conservative analysis, a 1.50% annual growth rate was applied to the Existing 2025 traffic volumes and compounded over a three-year period.

- The level of service analysis indicates that the majority of the study intersection will operate at levels of service commensurate to the No-Build condition. Maple Road and NYS Route 263 SB Ramps – The northbound NYS Route 263 approach to the intersection will experience delay during the weekday PM peak hour Build condition. Mitigation could consist of signal timing adjustments. It is recommended that the Maple Road/Site Driveway intersection operate under signal control.

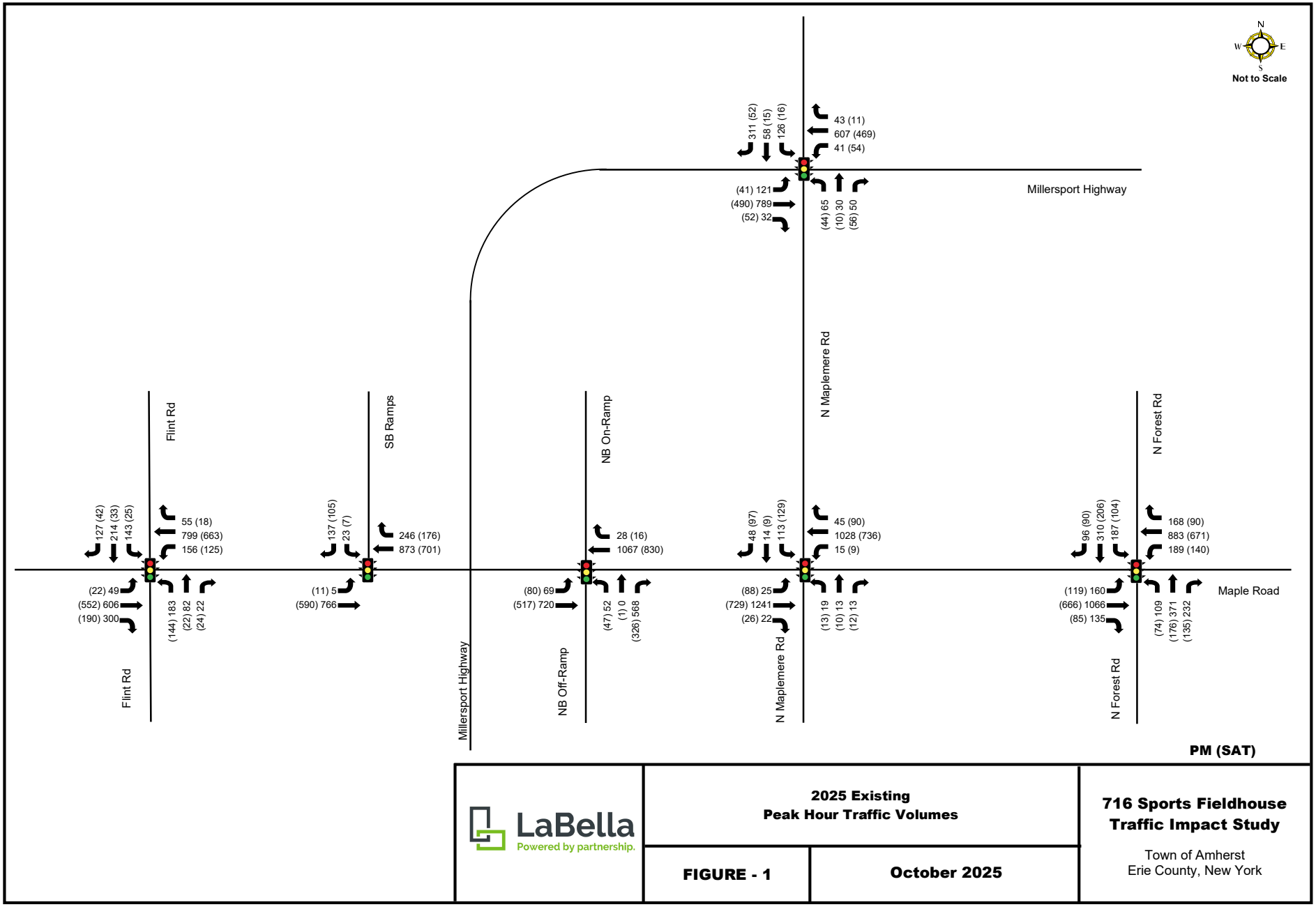
Please contact me at shipp@labellapc.com or at (914) 269-5604 if you have questions on this traffic analysis.

Sincerely,
LaBella Associates



Starke W. Hipp, PE
Traffic Engineer

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



LaBella
Powered by partnership.

2025 Existing
Peak Hour Traffic Volumes

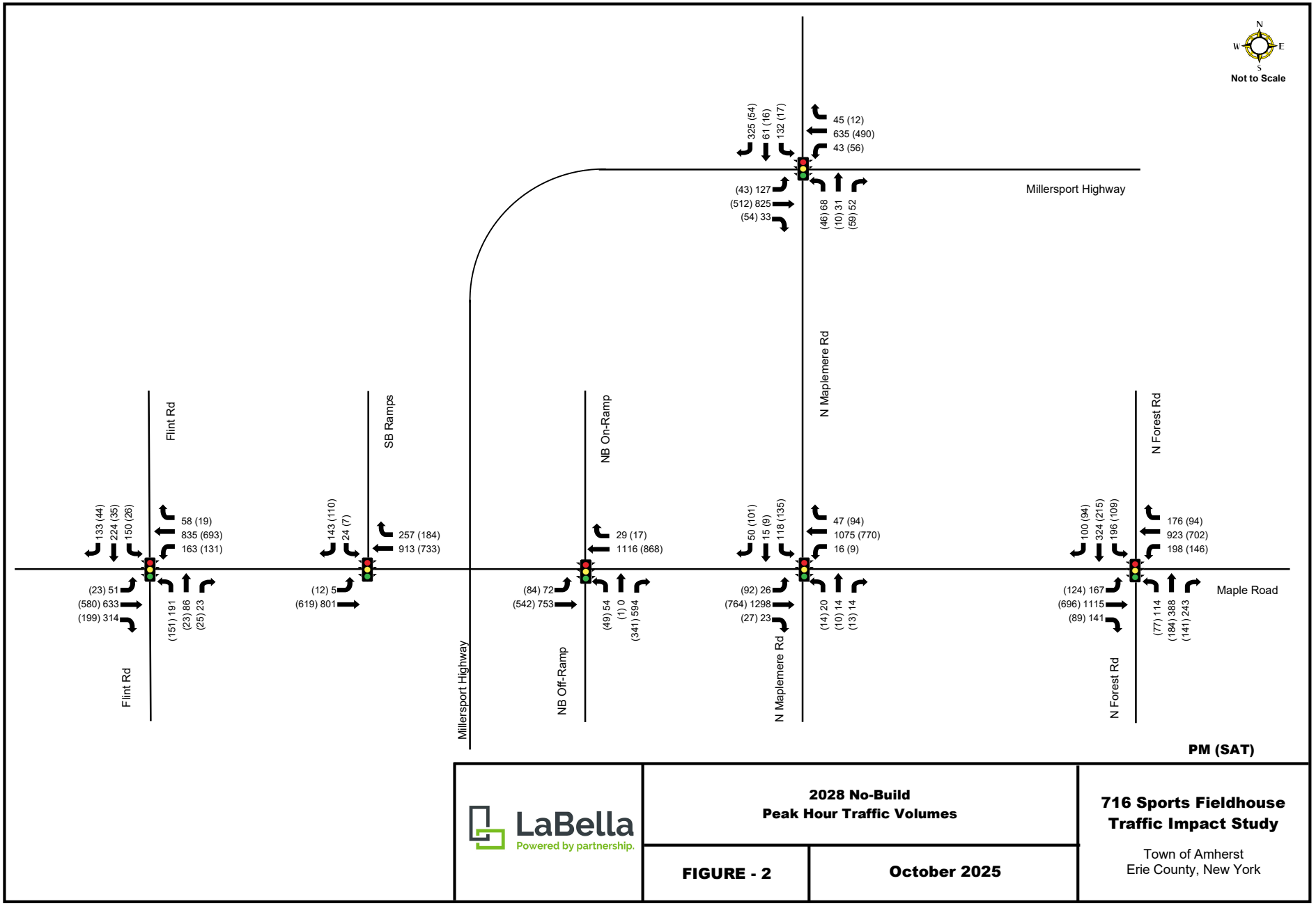
FIGURE - 1

October 2025

716 Sports Fieldhouse
Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



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2028 No-Build
Peak Hour Traffic Volumes

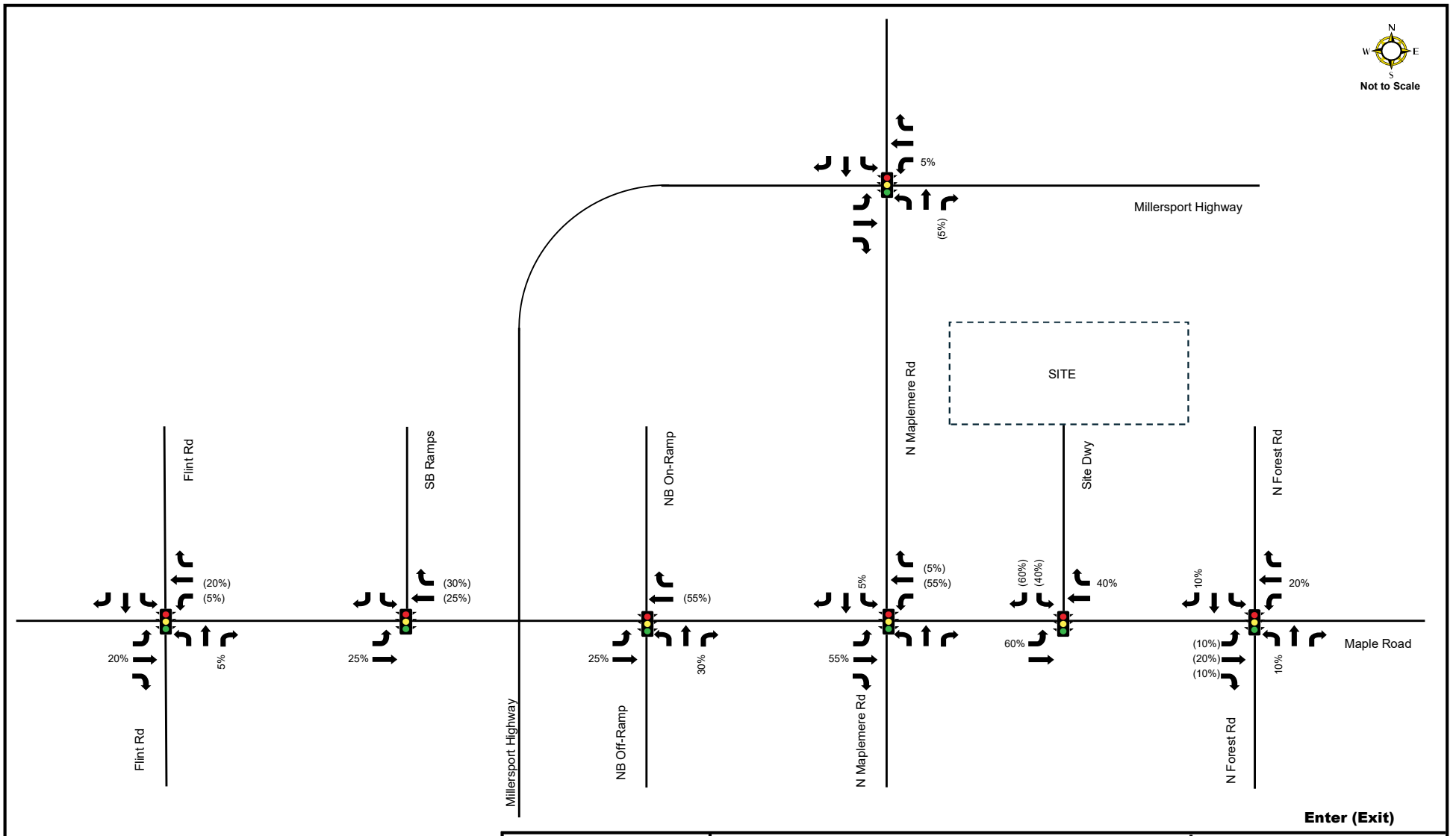
FIGURE - 2

October 2025

716 Sports Fieldhouse
Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



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Trip Distributions

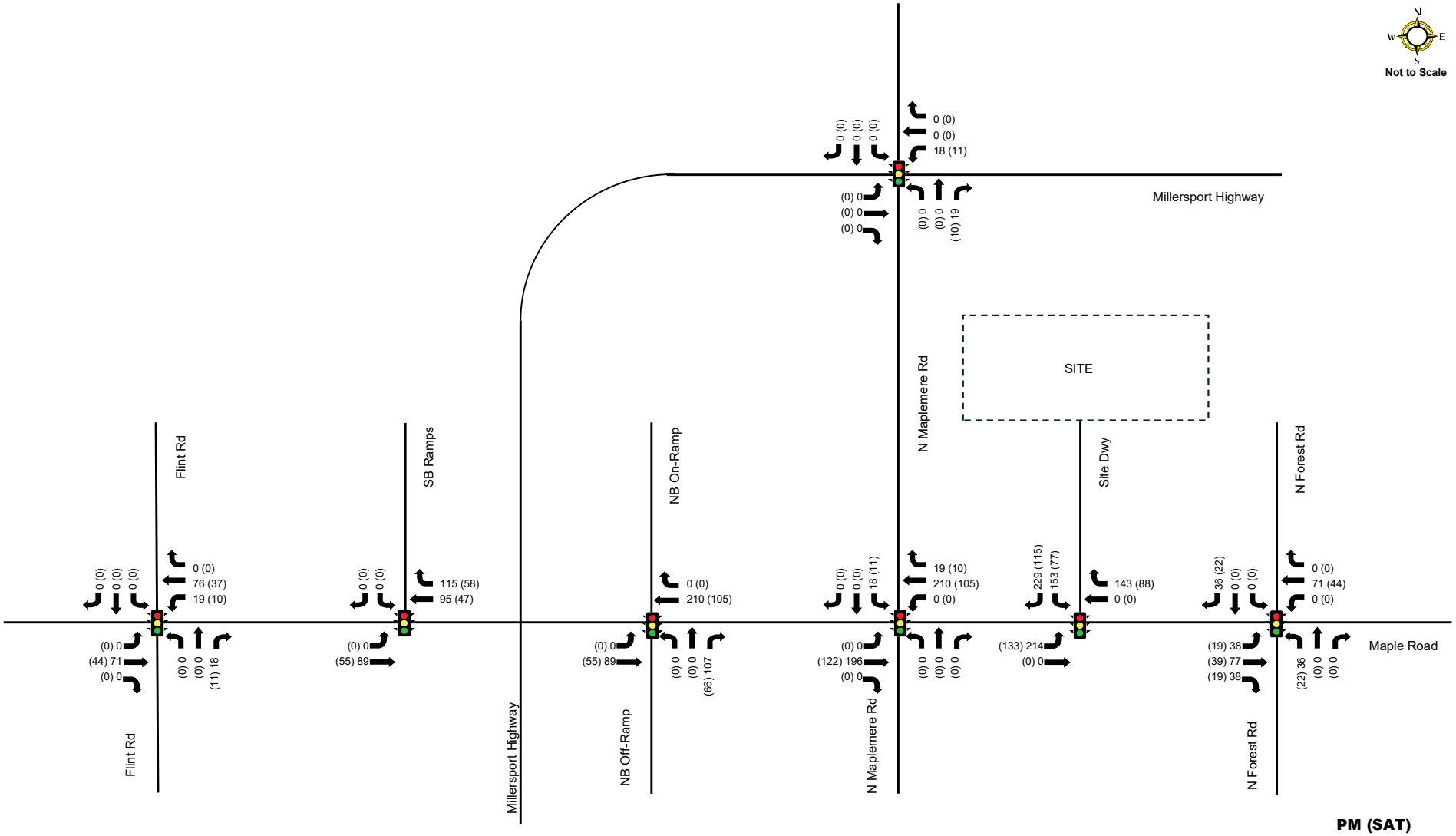
FIGURE - 3

October 2025

716 Sports Fieldhouse
Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



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Trip Assignment

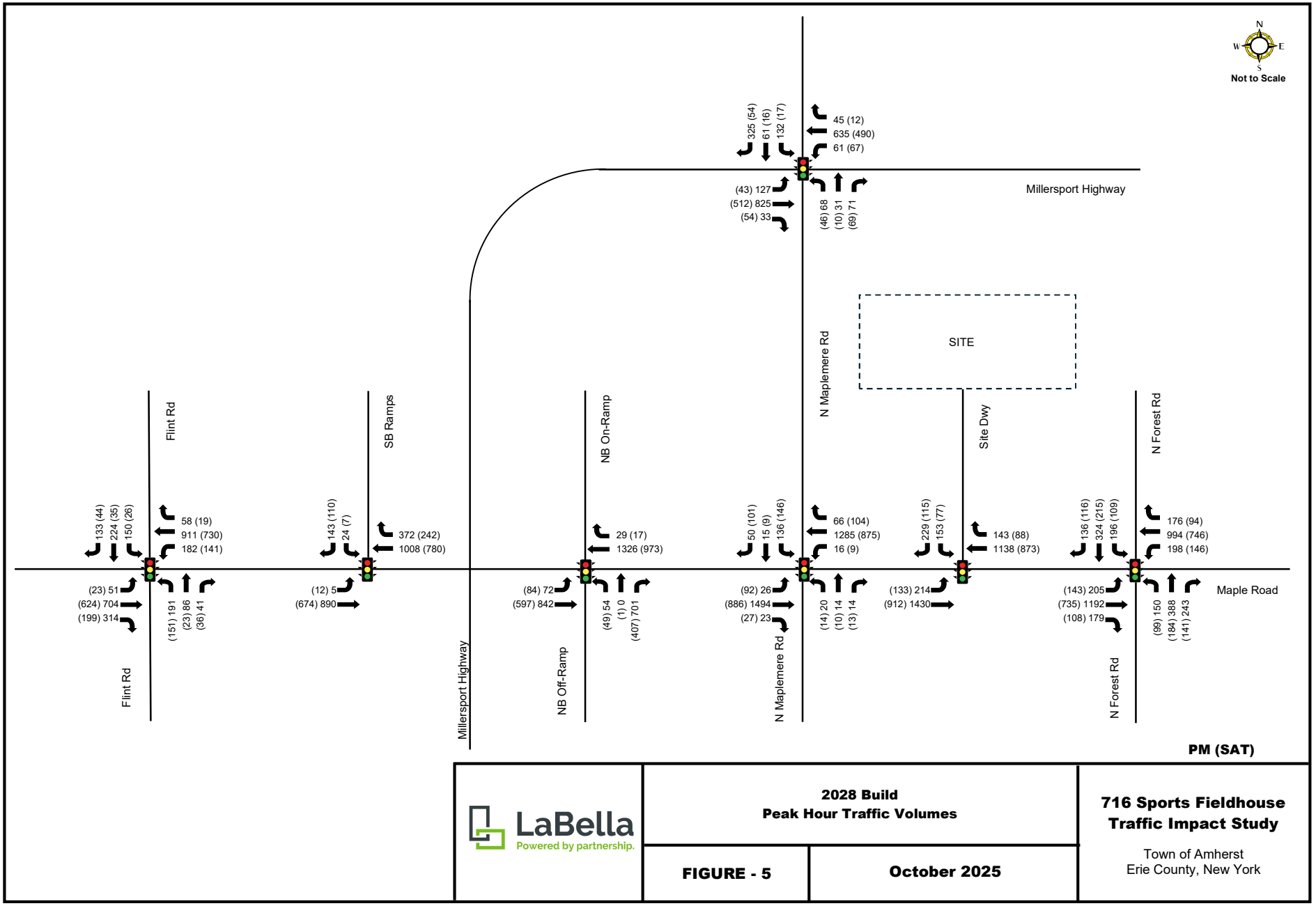
FIGURE - 4

October 2025

716 Sports Fieldhouse Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



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2028 Build
Peak Hour Traffic Volumes

FIGURE - 5

October 2025

716 Sports Fieldhouse
Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT A1

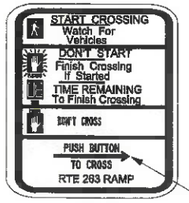
NYSDOT SIGNAL TIMINGS

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

NYSDOT TRAFFIC SIGNAL #431
MAPLE RD @ RAMP TO/FROM RTE 263

QUANTITY AND ITEM LIST			
SIGNAL 431			
ITEM NO.	DESCRIPTION	UNIT	QTY
206.03060005	CONDUIT EXCAV & BACKFILL (NOT IN ROADWAY)	FT	75
619.1612	MAINTAIN TRAFFIC SIGNAL EQUIP (REQ B)	INT MO	1
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	1
680.520506	CONDUIT, RIGID PLASTIC, CLASS 1, 2"	FT	75
680.6710	SIGNAL POLE - TOP MOUNT (10FT)	EA	2
680.730514	SIGNAL CABLE, 5 CONDUCTOR, 14 AWG	FT	325
680.78010005	ALTER PULLBOX FOR CONDUIT	EA	2
680.79000805	REMOVE TRAFFIC SIGNAL INSTALLATION	EA	1
680.813105	PEDESTRIAN SIGNAL MODULE 12IN, BI-MODAL HAND/MAN	EA	2
680.813106	PEDESTRIAN SIGNAL SECTION - POLYCARBONITE, TYPE 1 12IN	EA	4
680.81330010	AUDIBLE PEDESTRIAN SIGNAL	EA	2
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EA	2
680.81500010	PEDESTRIAN COUNT DOWN TIMER	EA	2



R10-3f

NEW PEDESTRIAN SIGNS SHALL BE SIGN NUMBER R10-3f FROM THE MUTCD.

"RTE 263 RAMP" FOR WA1 & WA2

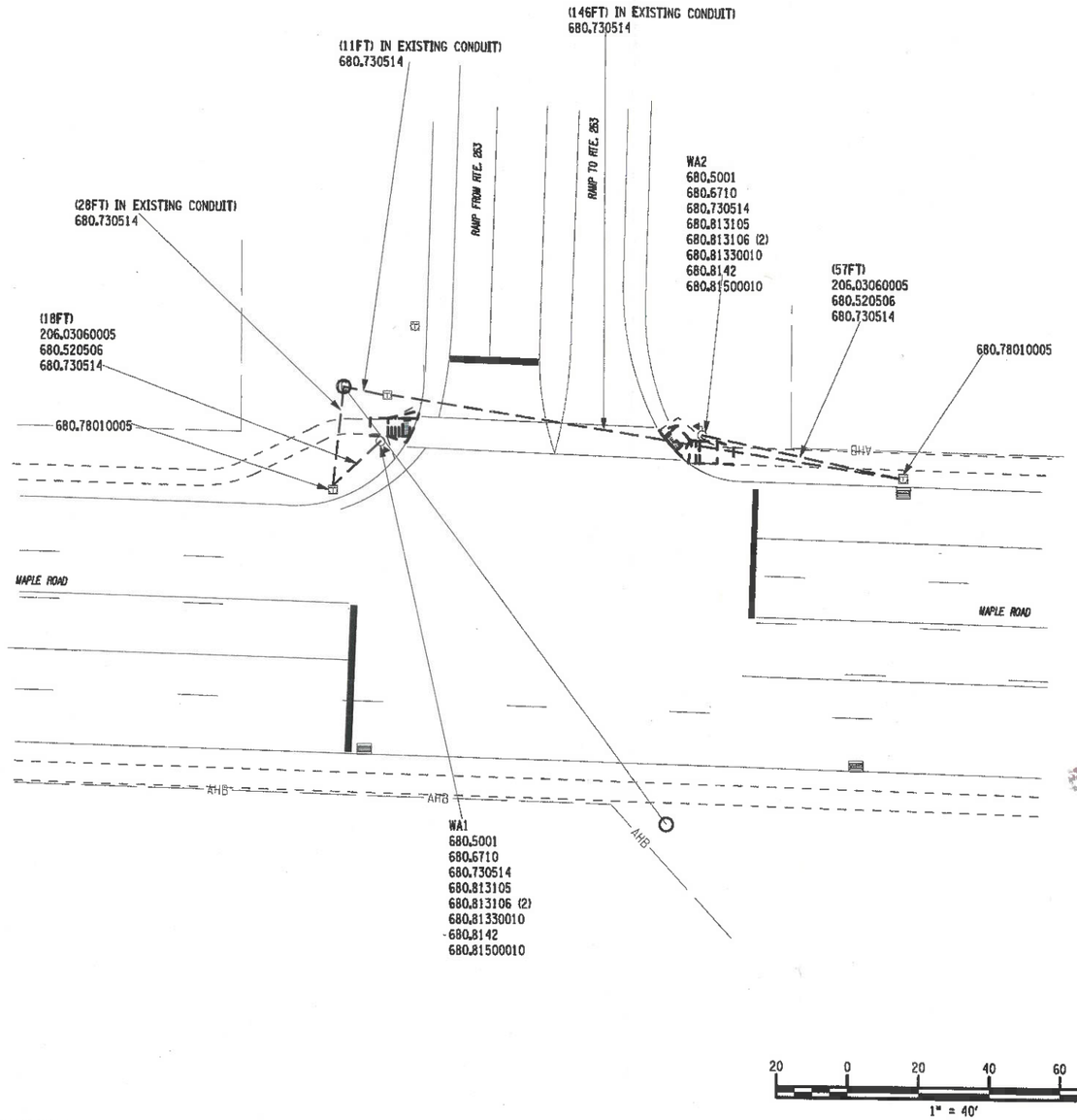
ARROW MAY FACE LEFT OR RIGHT, IT IS CONTRACTORS RESPONSIBILITY FOR PROPER ARROW ORIENTATION.

1.) PULLBOX AND EXISTING CONDUIT LOCATIONS ON PLANS ARE SHOWN BASED ON RECORD PLANS. ACTUAL FIELD LOCATIONS MAY VARY.

2.) ITEM 680.79000805, "REMOVE TRAFFIC SIGNAL INSTALLATION" SHALL INCLUDE THE REMOVAL AND STORAGE OF THE EXISTING TRAFFIC SIGNAL EQUIPMENT. ALL EQUIPMENT, EXCEPT EXISTING PEDESTRIAN SIGNAL POLE AND CABLE, SHALL BE TURNED OVER TO THE REGION 5 NYSDOT TRAFFIC SIGNAL MAINTENANCE CREW. EXISTING PEDESTRIAN SIGNAL POLES WILL BECOME THE PROPERTY OF THE CONTRACTOR.

UNLESS OTHERWISE NOTED,
"REMOVE TRAFFIC SIGNAL INSTALLATION",
ITEM 680.79000805, SHALL INCLUDE:

-ALL EXISTING PEDESTRIAN SIGNAL CABLE
-ALL EXISTING PEDESTRIAN PUSH BUTTONS AND SIGNS
-ALL EXISITNG PEDESTRIAN SIGNAL HEADS AND BRACKETS
-ALL EXISITNG PEDESTRIAN SIGNAL POLES



AFFIX SEAL: ON:	ALTERED BY: ON:
1-21-16 	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ADA COMPLIANCE ON VARIOUS ROUTES ERIE AND NIAGARA COUNTIES COUNTY: VARIOUS REGION: 5	PIN 5808.30	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED SIGNAL 431 - GENERAL PLAN SHEET	CONTRACT NUMBER D263157 DRAWING NO. 431-1 SHEET NO. 35

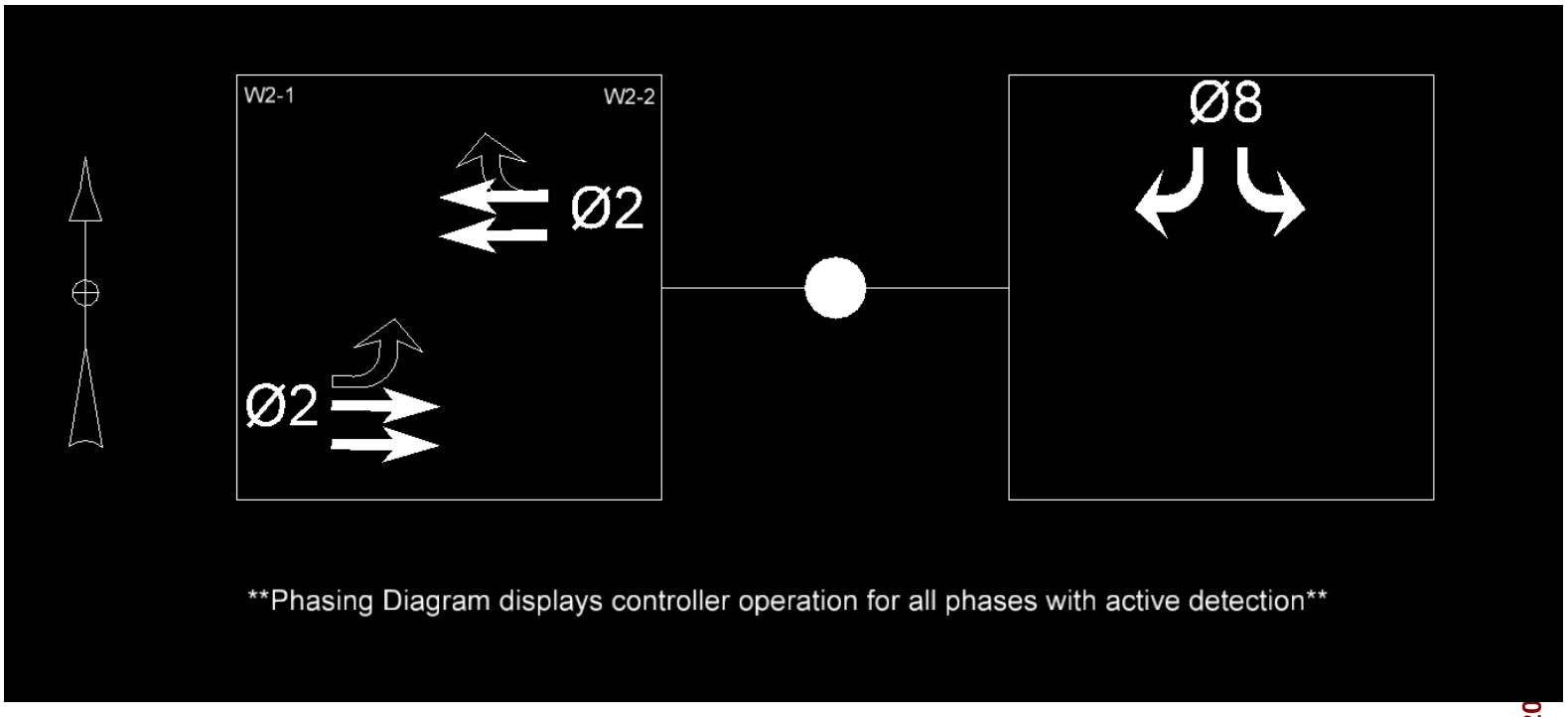
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

DESIGN SUPERVISOR K. LORENZ | JOB MANAGER M.F. CHRISTNER | DESIGN K. GORECKI | DRAFTING K. GORECKI | CHECK R. LUNZ | PROJECT MANAGER K. LORENZ | CHECK R. LUNZ

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DATE/TIME = 12-JAN-2016 11:32
USER = rlunz

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Attachment: Z-2007-03_A application 101625 (30975 : Z-20

53431

Phase Times [1.1.1]

	1	2	3	4	5	6	7	8
Min Green		10						6
Gap, Ext		4						4
Max 1		40						30
Max 2								
Yel Clearance	3.5	4.3	3.5	3.5	3.5	3.5	3.5	4.3
Red Clearance	1.5	2	1.5	1.5	1.5	1.5	1.5	1.9
Walk		7						
Ped Clearance		22						
Red Revert								
Add Initial								
Max Initial								
Time B4 Reduct								
Cars B4 Reduct								
Time To Reduce								
Reduce By								
Min Gap								
DyMaxLim								
Max Step								

Options [1.1.2]

	1	2	3	4	5	6	7	8
Enable		ON						ON
Min Recall		ON						
Max Recall								
Ped Recall								
Soft Recall								
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		ON		ON		ON		ON
Enable Simul Gap	ON	ON	ON	ON	ON	ON	ON	ON
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								

Options+ [1.1.3]

	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
Skip Red No Call								
Red Rest								
Max II								
Call Phase								
Conflicting Phase								
Omit Yellow								
Ped Delay								
Grn/Ped Delay								

53431 263 @ Maple Rd. (West)

Coordination Patterns [2.4] and Coordination Split Tables [2.7.1]

Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq
1	140	20	1	1	13	0	0	13	1	25	0	0	0	1	37	0	0	0	1
2	150	45	2	1	14	0	0	14	1	26	0	0	0	1	38	0	0	0	1
3	160	121	3	1	15	0	0	15	1	27	0	0	0	1	39	0	0	0	1
4	130	33	4	1	16	0	0	16	1	28	0	0	0	1	40	0	0	0	1
5	140	59	5	1	17	0	0	17	1	29	0	0	0	1	41	0	0	0	1
6	140	66	6	1	18	0	0	18	1	30	0	0	0	1	42	0	0	0	1
7	75	0	7	1	19	0	0	19	1	31	0	0	0	1	43	0	0	0	1
8	0	0	8	1	20	0	0	20	1	32	0	0	0	1	44	0	0	0	1
9	0	0	9	1	21	0	0	21	1	33	0	0	0	1	45	0	0	0	1
10	0	0	10	1	22	0	0	22	1	34	0	0	0	1	46	0	0	0	1
11	0	0	11	1	23	0	0	23	1	35	0	0	0	1	47	0	0	0	1
12	0	0	12	1	24	0	0	24	1	36	0	0	0	1	48	0	0	0	1

Split		1	2	3	4	5	6	7	8	Split		1	2	3	4	5	6	7	8
1	Coor	0	90	0	50	0	90	0	50	13	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
2	Coor	0	95	0	55	0	95	0	55	14	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
3	Coor	0	100	0	60	0	100	0	60	15	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
4	Coor	0	80	0	50	0	80	0	50	16	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
5	Coor	0	80	0	60	0	80	0	60	17	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
6	Coor	0	80	0	60	0	80	0	60	18	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
7	Coor	0	50	0	25	0	50	0	25	19	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	Max	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
8	Coor	0	0	0	0	0	0	0	0	20	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
9	Coor	0	0	0	0	0	0	0	0	21	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
10	Coor	0	0	0	0	0	0	0	0	22	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
11	Coor	0	0	0	0	0	0	0	0	23	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
12	Coor	0	0	0	0	0	0	0	0	24	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON

Page#	
1	8 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
1A&1B	16 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
2	Overlaps; Channel Settings; Coord Alt Table+ (values not associated with time-of-day)
3	Detection; Sample Time and Unit Parameters related to detection
4	Preemption and Alternate Phase Time and Phase Options
5	Annual Schedule
6	Day Plans; Action Tables; Coord Alt Table+ (values varied by time-of-day)
7	Communications; Secutiry; I/O Setup
8	Misc - Events/Alarms; Call/Inhibit/Redirect; P/OLAP Auto Flash; CIC; Misc Unit Param

Ring/Startup [1.1.4]

Phs	Ring	Start	Ena
1	1	Red	OF
2	1	Red	O
3	1	Red	OF
4	1	Red	OF
5	2	Red	OF
6	2	Red	OF
7	2	Red	OF
8	2	Red	O

Coord Modes [2.1]

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX 1
Force-Off	FIXED
Closed Loop	ON
Stop-in-Walk	ON
Auto Reset	ON
Expand Splt	
Ped Recycle	NO_RECYCLE
Before	TIMED
After	TIMED

Auto Flash [1.4.1]

Auto Flash	PH_OVLP
Flash Yel	45
Flash Red	20

Unit Params [1.2.1]

Phase Mode	STD8
IO Mode	User
Loc Flsh Start	Red
Start Flash(s)	0
Start AllRed(s)	6
Yellow < 3"	OFF
Display Time	20
Red Revert	3
MCE Timeout	0
Feature Profile	
Free Ring Seq	1
Auxswitch	STOPTM
SDLC Retry	0
TS2 Det Faults	ON
Auto Ped Clear	OFF
SDLC Retry	0

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Overlap 1-16 Program Parms & Parm+ [1.5.2.1] [1.5.2.2]

		Overlap Conflict Lock	OFF	Overlap Lock Inhibit	OFF	Parent Ph Clearance	ON	Extra Included Ph	OFF		
1	A	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
2	B	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
3	C	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
4	D	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
5	E	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conf o0l				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
6	F	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
7	G	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
8	H	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
9	I	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
10	J	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
11	K	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
12	L	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
13	M	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
14	N	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
15	O	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					
16	P	Included Ø				Type	NORMAL				
		Modifier Ø				Grn					
		Conflict Ø				Yel	3.5				
		Conflict Olap				Red	1.5				
		Conflict Ped				LG					

Channel Settings [1.8.1]

……Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Phase / Olap #		2						8		8						2								
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	PED	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
Channel Flash	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
Alt Hz																								

Channel+ Settings [1.8.4]

……Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Flash Red+																								
Flash Yellow+																								
Flash Green+																								
Flash Inh Red+																								
Olap Ovrd																								

Coord Transition, CoorPhs [2.5]

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	RetHld	Float	Min Veh Perm	Min Ped Perm
1	12	22							EndGRN	ON			ON
2	12	22							EndGRN	ON			ON
3	12	22							EndGRN	ON			ON
4	12	22							EndGRN	ON			ON
5	12	22							EndGRN	ON			ON
6	12	22							EndGRN	ON			ON
7	12	22							EndGRN	ON			ON
8	12	22							EndGRN				
9	12	22							EndGRN				
10	12	22							EndGRN				
11	12	22							EndGRN				
12	12	22							EndGRN				
13	12	22							EndGRN				
14	12	22							EndGRN				
15	12	22							EndGRN				
16	12	22							EndGRN				
17	12	22							EndGRN				
18	12	22							EndGRN				
19	12	22							EndGRN				
20	12	22							EndGRN				
21	12	22							EndGRN				
22	12	22							EndGRN				
23	12	22							EndGRN				
24	12	22							EndGRN				
25									BegGRN				
26									BegGRN				
27									BegGRN				
28									BegGRN				
29									BegGRN				
30									BegGRN				
31									BegGRN				
32									BegGRN				
33									BegGRN				
34									BegGRN				
35									BegGRN				
36									BegGRN				
37									BegGRN				
38									BegGRN				
39									BegGRN				
40									BegGRN				
41									BegGRN				
42									BegGRN				
43									BegGRN				
44									BegGRN				
45									BegGRN				
46									BegGRN				
47									BegGRN				
48									BegGRN				

Channel Params[1.8.3]

C1 IO Mode	User	Single BIU Map	DEFAULT	Invert Rail Input	OFF

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
1	2		5				45	50	2
2	2		5				45	50	2
3	2		5				45	50	2
4	2						45	50	2
5	8						45	50	2
6	8						45	50	2
7							45	50	2
8							45	50	2
9							45	50	2
10							45	50	2
11							45	50	2
12							45	50	2
13							45	50	2
14							45	50	2
15							45	50	2
16							45	50	2
17							45	50	2
18							45	50	2
19							45	50	
20							45	50	
21							45	50	
22							45	50	
23							45	50	
24							45	50	
25							45	50	
26							45	50	
27							45	50	
28							45	50	
29							45	50	
30							45	50	
31							45	50	
32							45	50	

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
33							45	50	
34							45	50	
35							45	50	
36							45	50	
37							45	50	
38							45	50	
39							45	50	
40							45	50	
41							45	50	
42							45	50	
43							45	50	
44							45	50	
45							45	50	
46							45	50	
47							45	50	
48							45	50	
49							45	50	
50							45	50	
51							45	50	
52							45	50	
53							45	50	
54							45	50	
55							45	50	
56							45	50	
57							45	50	
58							45	50	
59							45	50	
60							45	50	
61							45	50	
62							45	50	
63							45	50	
64							45	50	

Vehicle Options 1-64 [5.2]

Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol
1	ON	ON		ON				
2	ON	ON		ON				
3	ON	ON		ON				
4	ON	ON		ON				
5	ON	ON		ON				
6	ON	ON		ON				
7	ON	ON		ON				
8	ON	ON		ON				
9	ON	ON		ON				
10	ON	ON		ON				
11	ON	ON		ON				
12	ON	ON		ON				
13	ON	ON		ON				
14	ON	ON		ON				
15	ON	ON		ON				
16	ON	ON		ON				
17	ON	ON		ON				
18	ON	ON		ON				
19	ON	ON		ON				
20	ON	ON		ON				
21	ON	ON		ON				
22	ON	ON		ON				
23	ON	ON		ON				
24	ON	ON		ON				
25	ON	ON		ON				
26	ON	ON		ON				
27	ON	ON		ON				
28	ON	ON		ON				
29	ON	ON		ON				
30	ON	ON		ON				
31	ON	ON		ON				
32	ON	ON		ON				

Vehicle Options 1-64 [5.2]

Det #	vol	occ	Yell Lock	Red Lock	Ext	Add Init	Que	Call
33					ON	ON		ON
34					ON	ON		ON
35					ON	ON		ON
36					ON	ON		ON
37					ON	ON		ON
38					ON	ON		ON
39					ON	ON		ON
40					ON	ON		ON
41					ON	ON		ON
42					ON	ON		ON
43					ON	ON		ON
44					ON	ON		ON
45					ON	ON		ON
46					ON	ON		ON
47					ON	ON		ON
48					ON	ON		ON
49					ON	ON		ON
50					ON	ON		ON
51					ON	ON		ON
52					ON	ON		ON
53					ON	ON		ON
54					ON	ON		ON
55					ON	ON		ON
56					ON	ON		ON
57					ON	ON		ON
58					ON	ON		ON
59					ON	ON		ON
60					ON	ON		ON
61					ON	ON		ON
62					ON	ON		ON
63					ON	ON		ON
64					ON	ON		ON

Parameters+ 1-64 [5.3]

Det #	oc G	oc Y	oc R	Dlay 1	Dlay 2	Type
1						NORM
2						NORM
3						NORM
4						NORM
5						NORM
6						NORM
7						NORM
8						NORM
9						NORM
10						NORM
11						NORM
12						NORM
13						NORM
14						NORM
15						NORM
16						NORM
17						NORM
18						NORM
19						NORM
20						NORM
21						NORM
22						NORM
23						NORM
24						NORM
25						NORM
26						NORM
27						NORM
28						NORM
29						NORM
30						NORM
31						NORM
32						NORM

Parameters+ 1-64 [5.3]

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
33						NORM	
34						NORM	
35						NORM	
36						NORM	
37						NORM	
38						NORM	
39						NORM	
40						NORM	
41						NORM	
42						NORM	
43						NORM	
44						NORM	
45						NORM	
46						NORM	
47						NORM	
48						NORM	
49						NORM	
50						NORM	
51						NORM	
52						NORM	
53						NORM	
54						NORM	
55						NORM	
56						NORM	
57						NORM	
58						NORM	
59						NORM	
60						NORM	
61						NORM	
62						NORM	
63						NORM	
64						NORM	

Ped Det Parms [5.4]

Det #	Call Ø	No Act	Max Pres	Err Cnt
1			15	
2			15	
3	2		15	
4			15	
5			15	
6			15	
7			15	
8			15	

Unit Paramters [1.2.1]

TS2 Det Faults	

Vol/Occ Report Parm [1.5.8]

Vol/Occ Period Minutes	
Vol/Occ Period Minutes	

263 @ Maple Rd. (West)

8/22/2025 Pa

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)


Src
ON
0
15
≥3

Annual Schedule [4.3]	Month of Year												Day of Week							Date																													Day Plan	Link To
	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
1	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON								ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	1	
2	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON								ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	2	
3	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	3	
4																																																	1	
5																																																		1	
6																																																		1	
7																																																		1	
8																																																		1	
9																																																		1	
10																																																		1	
11																																																		1	
12																																																		1	
13																																																		1	
14																																																		1	
15																																																		1	
16																																																		1	
17																																																		1	
18																																																		1	
19																																																		1	
20																																																		1	
21																																																		1	
22																																																		1	
23																																																		1	
24																																																		1	

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Day Plans [4.4]

Day Plan 1

	Hour	Min	Act		Hour	Min	Act
1	7	0	1	9	0	0	0
2	10	0	2	10	0	0	0
3	16	0	3	11	0	0	0
4	20	0	25	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 2

	Hour	Min	Act		Hour	Min	Act
1	7	0	4	9	0	0	0
2	10	0	5	10	0	0	0
3	16	0	6	11	0	0	0
4	20	0	25	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 3

	Hour	Min	Act		Hour	Min	Act
1	7	0	7	9	0	0	0
2	20	0	25	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 4

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 5

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 6

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 7

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 8

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 9

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 10

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 11

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 12

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 13

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 14

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 15

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Action Table [4.5]

Act#	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8
1	1											
2	2											
3	3											
4	4											
5	5											
6	6											
7	7											
8	8											
9	9											
10	10											
11	11											
12	12											
13	13											
14	14											
15	15											
16	16											
17	17											
18	18											
19	19											
20	20											
21	21											
22	22											
23	23											
24	24											
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36												
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38												
39												
40												
48												
98												
99												
100	255											

Coord Alternate Tables - Pat+ [2.6]

Pat#	ØOpt	ØTime	DetG	Call Inh	CIC	CNA1	Overlap Off 1	2	3	4	5	6	7	8	Dia	Max2
1	1	1													DFT	
2	1	1													DFT	
3	1	1													DFT	
4	1	1													DFT	
5	1	1													DFT	
6	1	1													DFT	
7															DFT	
8															DFT	
9															DFT	
10															DFT	
11															DFT	
12															DFT	
13															DFT	
14															DFT	
15															DFT	
16															DFT	
17															DFT	
18															DFT	
19															DFT	
20															DFT	
21															DFT	
22															DFT	
23															DFT	
24															DFT	
25															DFT	
26															DFT	
27															DFT	
28															DFT	
29															DFT	
30															DFT	
31															DFT	
32															DFT	
33															DFT	
34															DFT	
35															DFT	
36															DFT	
37															DFT	
38															DFT	
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40															DFT	
41															DFT	
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48															DFT	

53431 263 @ Maple Rd. (West)

08/22/25 Page 6

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

NYSDOT TRAFFIC SIGNAL #432
MAPLE RD @ RAMP FROM RTE 263

QUANTITY AND ITEM LIST			
SIGNAL 432			
ITEM NO.	DESCRIPTION	UNIT	QTY
206.03050005	CONDUIT EXCAV & BACKFILL (IN ROADWAY)	FT	63
206.03060005	CONDUIT EXCAV & BACKFILL (NOT IN ROADWAY)	FT	190
619.1612	MAINTAIN TRAFFIC SIGNAL EQUIP (REQ B)	INT MO	1
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	2
680.51000105	ALTER ELEVATION OF PULLBOX	EA	1
680.50500005	REMOVE POLE FOUNDATION	EA	2
680.510301	PULLBOX-CIRC., 24" DIA. REINF. CONC.	EA	1
680.520506	CONDUIT, RIGID PLASTIC, CLASS 1, 2"	FT	253
680.6710	SIGNAL POLE - TOP MOUNT (10FT)	EA	4
680.730514	SIGNAL CABLE, 5 CONDUCTOR, 14 AWG	FT	938
680.78010005	ALTER PULLBOX FOR CONDUIT	EA	5
680.79000905	REMOVE TRAFFIC SIGNAL INSTALLATION	EA	1
680.813105	PEDESTRIAN SIGNAL MODULE 12IN, BI-MODAL HAND/MAN	EA	4
680.813106	PEDESTRIAN SIGNAL SECTION - POLYCARBONITE, TYPE 1 12IN	EA	8
680.81330010	AUDIBLE PEDESTRIAN SIGNAL	EA	4
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EA	4
680.81500010	PEDESTRIAN COUNT DOWN TIMER	EA	4



R10-3i

NEW PEDESTRIAN SIGNS SHALL BE SIGN NUMBER R10-3i FROM THE MUTCD.

"RTE 263 RAMP" FOR WA1, WA2, WA3 & WA4

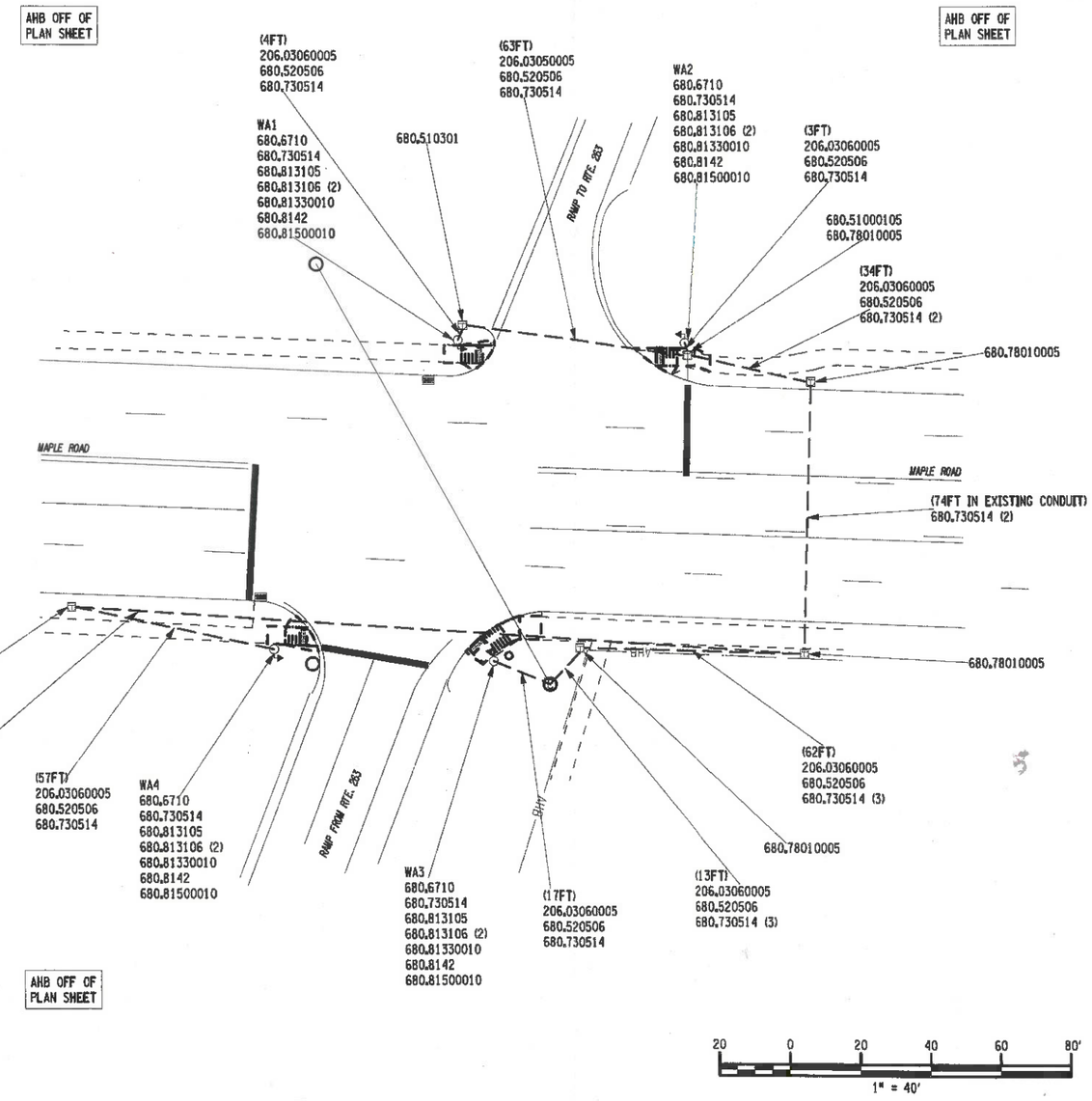
ARROW MAY FACE LEFT OR RIGHT, IT IS CONTRACTORS RESPONSIBILITY FOR PROPER ARROW ORIENTATION.

1.) PULLBOX AND EXISTING CONDUIT LOCATIONS ON PLANS ARE SHOWN BASED ON RECORD PLANS. ACTUAL FIELD LOCATIONS MAY VARY.

2.) ITEM 680.79000905, "REMOVE TRAFFIC SIGNAL INSTALLATION" SHALL INCLUDE THE REMOVAL AND STORAGE OF THE EXISTING TRAFFIC SIGNAL EQUIPMENT. ALL EQUIPMENT, EXCEPT EXISTING PEDESTRIAN SIGNAL POLE AND CABLE, SHALL BE TURNED OVER TO THE REGION 5 NYSDOT TRAFFIC SIGNAL MAINTENANCE CREW. EXISTING PEDESTRIAN SIGNAL POLES WILL BECOME THE PROPERTY OF THE CONTRACTOR.

UNLESS OTHERWISE NOTED,
"REMOVE TRAFFIC SIGNAL INSTALLATION",
ITEM 680.79000905, SHALL INCLUDE:

-ALL EXISTING PEDESTRIAN SIGNAL CABLE
-ALL EXISTING PEDESTRIAN PUSH BUTTONS AND SIGNS
-ALL EXISITNG PEDESTRIAN SIGNAL HEADS AND BRACKETS
-ALL EXISITNG PEDESTRIAN SIGNAL POLES



AFFIX SEAL: ON:	ALTERED BY: ON:
1-21-16 	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ADA COMPLIANCE ON VARIOUS ROUTES ERIE AND NIAGARA COUNTIES COUNTY: VARIOUS REGION: 5	PIN 5808.30	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED SIGNAL 432 - GENERAL PLAN SHEET	CONTRACT NUMBER D263157 DRAWING NO. 432-1 SHEET NO. 36

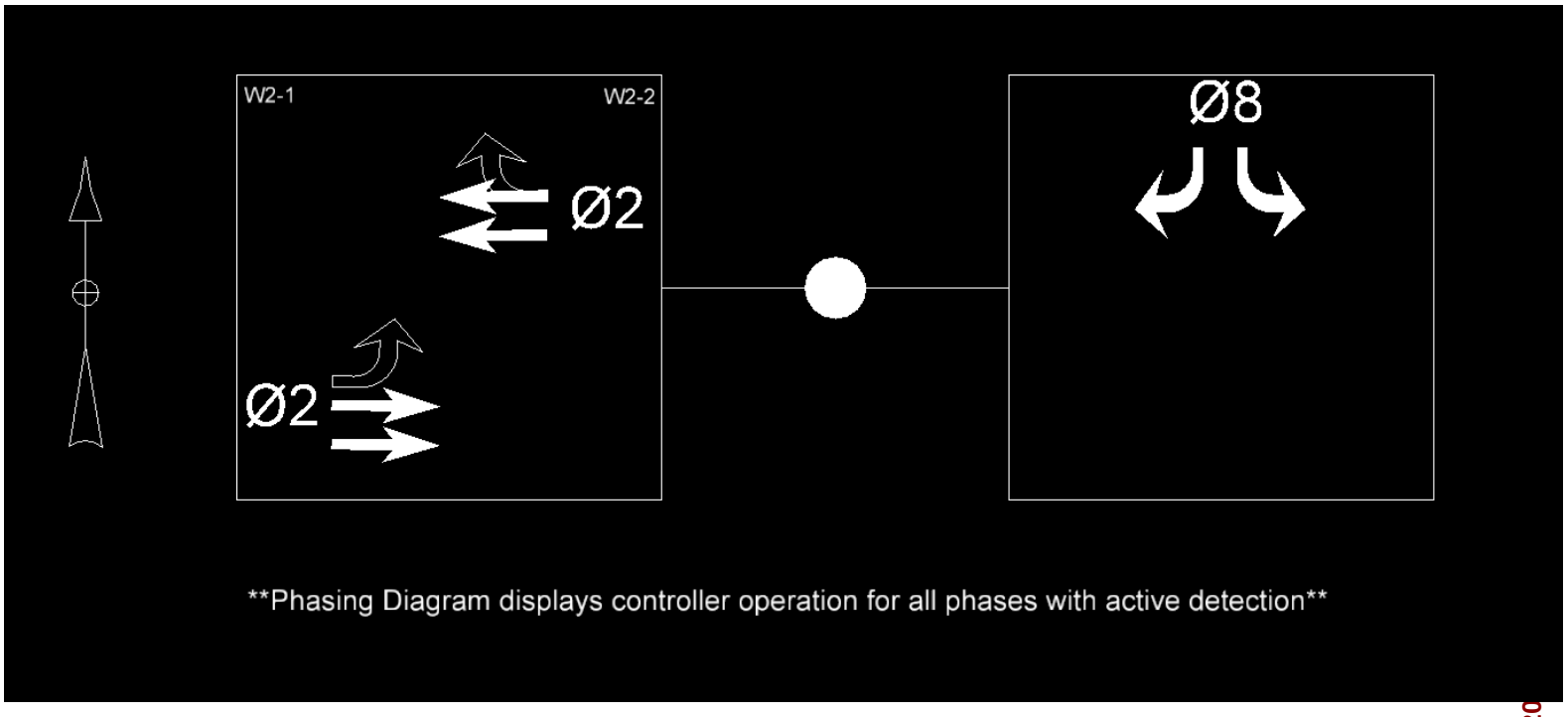
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

DESIGN SUPERVISOR K. LORENZ | JOB MANAGER M.F. CHRISTNER | DESIGN K. GORECKI | CHECK R. LUNZ | PROJECT MANAGER K. LORENZ | DRAFTING K. GORECKI | CHECK R. LUNZ | CHECK R. LUNZ

FILE NAME = 580830_CPN_SIG432_1.dgn
DATE/TIME = 12-JAN-2016 11:32
USER = rlunz

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Attachment: Z-2007-03_A application 101625 (30975 : Z-20

53432

Phase Times [1.1.1]

	1	2	3	4	5	6	7	8
Min Green		20		6				
Gap, Ext		4		2				
Max 1		40		30				
Max 2								
Yel Clearance	3.5	4.3	3.5	4.3	3.5	3.5	3.5	3.5
Red Clearance	1.5	1.7	1.5	1.9	1.5	1.5	1.5	1.5
Walk		7						
Ped Clearance		16						
Red Revert								
Add Initial								
Max Initial								
Time B4 Reduct								
Cars B4 Reduct								
Time To Reduce								
Reduce By								
Min Gap								
DyMaxLim								
Max Step								

Options [1.1.2]

	1	2	3	4	5	6	7	8
Enable		ON		ON				
Min Recall		ON						
Max Recall								
Ped Recall								
Soft Recall								
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		ON		ON		ON		ON
Enable Simul Gap	ON	ON	ON	ON	ON	ON	ON	ON
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								

Options+ [1.1.3]

	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
Skip Red No Call								
Red Rest								
Max II								
Call Phase								
Conflicting Phase								
Omit Yellow								
Ped Delay								
Grn/Ped Delay								

53432 263 @ Maple Rd (East)

Coordination Patterns [2.4] and Coordination Split Tables [2.7.1]

Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq
1	140	12	1	1	13	0	0	13	1	25	0	0	0	1	37	0	0	0	1
2	150	35	2	1	14	0	0	14	1	26	0	0	0	1	38	0	0	0	1
3	160	80	3	1	15	0	0	15	1	27	0	0	0	1	39	0	0	0	1
4	130	39	4	1	16	0	0	16	1	28	0	0	0	1	40	0	0	0	1
5	140	43	5	1	17	0	0	17	1	29	0	0	0	1	41	0	0	0	1
6	140	67	6	1	18	0	0	18	1	30	0	0	0	1	42	0	0	0	1
7	0	0	7	1	19	0	0	19	1	31	0	0	0	1	43	0	0	0	1
8	0	0	8	1	20	0	0	20	1	32	0	0	0	1	44	0	0	0	1
9	0	0	9	1	21	0	0	21	1	33	0	0	0	1	45	0	0	0	1
10	0	0	10	1	22	0	0	22	1	34	0	0	0	1	46	0	0	0	1
11	0	0	11	1	23	0	0	23	1	35	0	0	0	1	47	0	0	0	1
12	0	0	12	1	24	0	0	24	1	36	0	0	0	1	48	0	0	0	1

Split		1	2	3	4	5	6	7	8	Split		1	2	3	4	5	6	7	8
1	Coor	0	74	0	66	0	0	0	0	13	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
2	Coor	0	85	0	65	0	0	0	0	14	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
3	Coor	0	90	0	70	0	0	0	0	15	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
4	Coor	0	65	0	65	0	0	0	0	16	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
5	Coor	0	80	0	60	0	0	0	0	17	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
6	Coor	0	72	0	68	0	0	0	0	18	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
7	Coor	0	0	0	0	0	0	0	0	19	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
8	Coor	0	0	0	0	0	0	0	0	20	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
9	Coor	0	0	0	0	0	0	0	0	21	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
10	Coor	0	0	0	0	0	0	0	0	22	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
11	Coor	0	0	0	0	0	0	0	0	23	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
12	Coor	0	0	0	0	0	0	0	0	24	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON

Page#	
1	8 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
1A&1B	16 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
2	Overlaps; Channel Settings; Coord Alt Table+ (values not associated with time-of-day)
3	Detection; Sample Time and Unit Parameters related to detection
4	Preemption and Alternate Phase Time and Phase Options
5	Annual Schedule
6	Day Plans; Action Tables; Coord Alt Table+ (values varied by time-of-day)
7	Communications; Secutiry; I/O Setup
8	Misc - Events/Alarms; Call/Inhibit/Redirect; P/OLAP Auto Flash; CIC; Misc Unit Param

Ring/Startup [1.1.4]

Phs	Ring	Start	Ena
1	1	Red	On
2	1	Red	On
3	1	Red	On
4	1	Red	On
5	2	Red	On
6	2	Red	On
7	2	Red	On
8	2	Red	On

Coord Modes [2.1]

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX 1
Force-Off	FIXED
Closed Loop	ON
Stop-in-Walk	ON
Auto Reset	ON
Expand Splt	
Ped Recycle	NO_RECYCLE
Before	TIMED
After	TIMED

Auto Flash [1.4.1]

Auto Flash	PH_OVLP
Flash Yel	45
Flash Red	20

Unit Params [1.2.1]

Phase Mode	STD8
IO Mode	User
Loc Flsh Start	Red
Start Flash(s)	0
Start AllRed(s)	6
Yellow < 3"	OFF
Display Time	20
Red Revert	3
MCE Timeout	0
Feature Profile	
Free Ring Seq	1
Auxswitch	STOPTM
SDLC Retry	0
TS2 Det Faults	ON
Auto Ped Clear	OFF
SDLC Retry	0

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Overlap 1-16 Program Parms & Parm+ [1.5.2.1] [1.5.2.2]

		Overlap Conflict Lock	OFF	Overlap Lock Inhibit	OFF	Parent Ph Clearance	ON	Extra Included Ph	OFF

		Included Ø								Type	NORMAL			Included Ø								Type	NORMAL
1		Modifier Ø								Grn		9		Modifier Ø								Grn	
		Conflict Ø								Yel	3.5			Conflict Ø								Yel	3.5
	A	Conflict Olap								Red	1.5		I	Conflict Olap								Red	1.5
		Conflict Ped								LG				Conflict Ped								LG	
		Included Ø								Type	NORMAL			Included Ø								Type	NORMAL
2		Modifier Ø								Grn		10		Modifier Ø								Grn	
		Conflict Ø								Yel	3.5			Conflict Ø								Yel	3.5
	B	Conflict Olap								Red	1.5		J	Conflict Olap								Red	1.5
		Conflict Ped								LG				Conflict Ped								LG	
		Included Ø								Type	NORMAL			Included Ø								Type	NORMAL
3		Modifier Ø								Grn		11		Modifier Ø								Grn	
		Conflict Ø								Yel	3.5			Conflict Ø								Yel	3.5
	C	Conflict Olap								Red	1.5		K	Conflict Olap								Red	1.5
		Conflict Ped								LG				Conflict Ped								LG	
		Included Ø								Type	NORMAL			Included Ø								Type	NORMAL
4		Modifier Ø								Grn		12		Modifier Ø								Grn	
		Conflict Ø								Yel	3.5			Conflict Ø								Yel	3.5
	D	Conflict Olap								Red	1.5		L	Conflict Olap								Red	1.5
		Conflict Ped								LG				Conflict Ped								LG	
		Included Ø								Type	NORMAL			Included Ø								Type	NORMAL
5		Modifier Ø								Grn		13		Modifier Ø								Grn	
		Conf o0l								Yel	3.5			Conflict Ø								Yel	3.5
	E	Conflict Olap								Red	1.5		M	Conflict Olap								Red	1.5
		Conflict Ped								LG				Conflict Ped								LG	
		Included Ø								Type	NORMAL			Included Ø								Type	NORMAL
6		Modifier Ø								Grn		14		Modifier Ø								Grn	
		Conflict Ø								Yel	3.5			Conflict Ø								Yel	3.5
	F	Conflict Olap								Red	1.5		N	Conflict Olap								Red	1.5
		Conflict Ped								LG				Conflict Ped								LG	
		Included Ø								Type	NORMAL			Included Ø								Type	NORMAL
7		Modifier Ø								Grn		15		Modifier Ø								Grn	
		Conflict Ø								Yel	3.5			Conflict Ø								Yel	3.5
	G	Conflict Olap								Red	1.5		O	Conflict Olap								Red	1.5
		Conflict Ped								LG				Conflict Ped								LG	
		Included Ø								Type	NORMAL			Included Ø								Type	NORMAL
8		Modifier Ø								Grn		16		Modifier Ø								Grn	
		Conflict Ø								Yel	3.5			Conflict Ø								Yel	3.5
	H	Conflict Olap								Red	1.5		P	Conflict Olap								Red	1.5
		Conflict Ped								LG				Conflict Ped								LG	

Channel Settings [1.8.1]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Phase / Olap #		2		4									2		2									
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	PED	VEH	PED	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
Channel Flash	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
Alt Hz																								

Channel+ Settings [1.8.4]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Flash Red+																								
Flash Yellow+																								
Flash Green+																								
Flash Inh Red+																								
Olap Ovrd																								

Coord Transition, CoorPhs [2.5]

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	RetHld	Float	Min Veh Perm	Min Ped Perm
1	12	22							EndGRN	ON			ON
2	12	22							EndGRN	ON			ON
3	12	22							EndGRN	ON			ON
4	12	22							EndGRN	ON			ON
5	12	22							EndGRN	ON			ON
6	12	22							EndGRN	ON			ON
7	12	22							EndGRN				
8	12	22							EndGRN				
9	12	22							EndGRN				
10	12	22							EndGRN				
11	12	22							EndGRN				
12	12	22							EndGRN				
13	12	22							EndGRN				
14	12	22							EndGRN				
15	12	22							EndGRN				
16	12	22							EndGRN				
17	12	22							EndGRN				
18	12	22							EndGRN				
19	12	22							EndGRN				
20	12	22							EndGRN				
21	12	22							EndGRN				
22	12	22							EndGRN				
23	12	22							EndGRN				
24	12	22							EndGRN				
25									BegGRN				
26									BegGRN				
27									BegGRN				
28									BegGRN				
29									BegGRN				
30									BegGRN				
31									BegGRN				
32									BegGRN				
33									BegGRN				
34									BegGRN				
35									BegGRN				
36									BegGRN				
37									BegGRN				
38									BegGRN				
39									BegGRN				
40									BegGRN				
41									BegGRN				
42									BegGRN				
43									BegGRN				
44									BegGRN				
45									BegGRN				
46									BegGRN				
47									BegGRN				
48									BegGRN				

Channel Params[1.8.3]

C1 IO Mode	User	Single BIU Map	DEFAULT	Invert Rail Input	OFF

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
1	2						45	50	2
2	2						45	50	2
3	2						45	50	2
4	2						45	50	2
5	4						45	50	2
6	4						45	50	2
7							45	50	2
8							45	50	2
9							45	50	2
10							45	50	2
11							45	50	2
12							45	50	2
13							45	50	2
14							45	50	2
15							45	50	2
16							45	50	2
17							45	50	2
18							45	50	2
19							45	50	
20							45	50	
21							45	50	
22							45	50	
23							45	50	
24							45	50	
25							45	50	
26							45	50	
27							45	50	
28							45	50	
29							45	50	
30							45	50	
31							45	50	
32							45	50	

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
33							45	50	
34							45	50	
35							45	50	
36							45	50	
37							45	50	
38							45	50	
39							45	50	
40							45	50	
41							45	50	
42							45	50	
43							45	50	
44							45	50	
45							45	50	
46							45	50	
47							45	50	
48							45	50	
49							45	50	
50							45	50	
51							45	50	
52							45	50	
53							45	50	
54							45	50	
55							45	50	
56							45	50	
57							45	50	
58							45	50	
59							45	50	
60							45	50	
61							45	50	
62							45	50	
63							45	50	
64							45	50	

Vehicle Options 1-64 [5.2]

Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol
1	ON	ON		ON				
2	ON	ON		ON				
3	ON	ON		ON				
4	ON	ON		ON				
5	ON	ON		ON				
6	ON	ON		ON				
7	ON	ON		ON				
8	ON	ON		ON				
9	ON	ON		ON				
10	ON	ON		ON				
11	ON	ON		ON				
12	ON	ON		ON				
13	ON	ON		ON				
14	ON	ON		ON				
15	ON	ON		ON				
16	ON	ON		ON				
17	ON	ON		ON				
18	ON	ON		ON				
19	ON	ON		ON				
20	ON	ON		ON				
21	ON	ON		ON				
22	ON	ON		ON				
23	ON	ON		ON				
24	ON	ON		ON				
25	ON	ON		ON				
26	ON	ON		ON				
27	ON	ON		ON				
28	ON	ON		ON				
29	ON	ON		ON				
30	ON	ON		ON				
31	ON	ON		ON				
32	ON	ON		ON				

Vehicle Options 1-64 [5.2]

Det #	vol	occ	Yell Lock	Red Lock	Ext	Add Init	Que	Call
33					ON	ON		ON
34					ON	ON		ON
35					ON	ON		ON
36					ON	ON		ON
37					ON	ON		ON
38					ON	ON		ON
39					ON	ON		ON
40					ON	ON		ON
41					ON	ON		ON
42					ON	ON		ON
43					ON	ON		ON
44					ON	ON		ON
45					ON	ON		ON
46					ON	ON		ON
47					ON	ON		ON
48					ON	ON		ON
49					ON	ON		ON
50					ON	ON		ON
51					ON	ON		ON
52					ON	ON		ON
53					ON	ON		ON
54					ON	ON		ON
55					ON	ON		ON
56					ON	ON		ON
57					ON	ON		ON
58					ON	ON		ON
59					ON	ON		ON
60					ON	ON		ON
61					ON	ON		ON
62					ON	ON		ON
63					ON	ON		ON
64					ON	ON		ON

Parameters+ 1-64 [5.3]

Det #	oc G	oc Y	oc R	Dlay 1	Dlay 2	Type
1						NORM
2						NORM
3						NORM
4						NORM
5						NORM
6						NORM
7						NORM
8						NORM
9						NORM
10						NORM
11						NORM
12						NORM
13						NORM
14						NORM
15						NORM
16						NORM
17						NORM
18						NORM
19						NORM
20						NORM
21						NORM
22						NORM
23						NORM
24						NORM
25						NORM
26						NORM
27						NORM
28						NORM
29						NORM
30						NORM
31						NORM
32						NORM

Parameters+ 1-64 [5.3]

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
33						NORM	
34						NORM	
35						NORM	
36						NORM	
37						NORM	
38						NORM	
39						NORM	
40						NORM	
41						NORM	
42						NORM	
43						NORM	

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
44						NORM	
45						NORM	
46						NORM	
47						NORM	
48						NORM	
49						NORM	
50						NORM	
51						NORM	
52						NORM	
53						NORM	
54						NORM	

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
55						NORM	
56						NORM	
57						NORM	
58						NORM	
59						NORM	
60						NORM	
61						NORM	
62						NORM	
63						NORM	
64						NORM	

263 @ Maple Rd (East)

Ped Det Parms [5.4]

Det #	Call Ø	No Act	Max Pres	Err Cnt
1	2		15	
2			15	
3	2		15	
4			15	
5			15	
6			15	
7			15	
8			15	

Unit Paramters [1.2.1]

TS2 Det Faults	

Vol/Occ Report Parm [1.5.8]

Vol/Occ Period Minutes
Vol/Occ Period Minutes

8/22/2025 Pa

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)


Src
ON
0
15
≥3

Annual Schedule [4.3]	Month of Year												Day of Week							Date																										Day Plan	Link To
1	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON		ON	ON	ON	ON	ON		ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	1	
2	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON						ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	2	
3	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
4	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
5	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
6	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
7	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
8	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
9	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
10	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
11	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
12	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
13	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
14	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
15	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
16	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
17	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
18	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
19	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
20	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
21	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
22	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
23	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	
24	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
																																																		1	

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Day Plans [4.4]

Day Plan 1

	Hour	Min	Act		Hour	Min	Act
1	7	0	1	9	0	0	0
2	10	0	2	10	0	0	0
3	16	0	3	11	0	0	0
4	20	0	25	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 2

	Hour	Min	Act		Hour	Min	Act
1	7	0	4	9	0	0	0
2	10	0	5	10	0	0	0
3	16	0	6	11	0	0	0
4	20	0	25	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 3

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 4

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 5

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 6

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 7

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 8

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 9

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 10

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 11

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 12

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 13

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 14

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 15

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

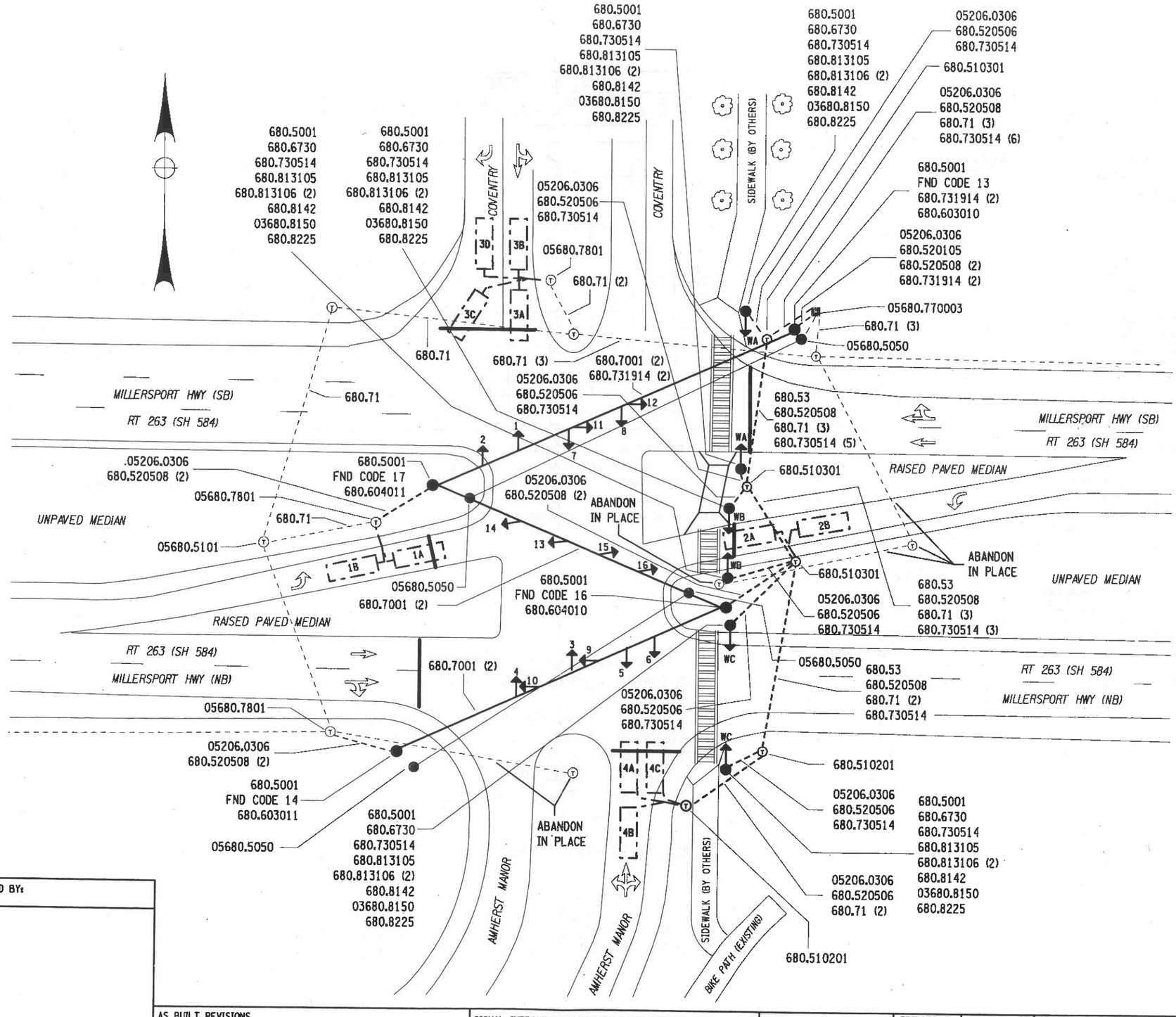
Action Table [4.5]

Act#	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8
1	1											
2	2											
3	3											
4	4											
5	5											
6	6											
7	7											
8	8											
9	9											
10	10											
11	11											
12	12											
13	13											
14	14											
15	15											
16	16											
17	17											
18	18											
19	19											
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38												
39												
40												
48												
98												
99												
100	255											

Coord Alternate Tables - Pat+ [2.6]

Pat#	ØOpt	ØTime	DetG	Call Inh	CIC	CNA1	Overlap Off 1	2	3	4	5	6	7	8	Dia	Max2
1		1													DFT	
2		1													DFT	
3	1	1													DFT	
4		1													DFT	
5		1													DFT	
6	1	1													DFT	
7															DFT	
8															DFT	
9															DFT	
10															DFT	
11															DFT	
12															DFT	
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47															DFT	
48															DFT	

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



PREPARED BY: ON:	ALTERED BY: ON:

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

SIGNAL IMPROVEMENTS/INSTALLATION PROJECT SFY 09/10
VARIOUS LOCATIONS IN REGION 5

COUNTY: ERIE

DOCUMENT NAME: SIG417.DGN

PIN 5805.90
PS&E DATE 3/17/09

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

RT 263 MILLERSPORT AT COVENTRY

NYSDOT TRAFFIC SIGNAL #417 (ERIE)

CONTRACT NUMBER D261074

DRAWING NO. SIG-11
SHE

NEW YORK STATE DEPARTMENT OF TRA

DESIGN SUPERVISOR S. S. VAIDYA JOB MANAGER R. LUNZ DESIGNED BY PETER CALABRESE CHECKED BY RICHARD LUNZ
ESTIMATED BY P.CALABRESE DRAFTED BY PETER CALABRESE CHECKED BY R. LUNZ

FILE NAME = SIG417.DGN
DATE/TIME = 17-MAR-2009 11:03
USER = fdegeorge

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ITEM	QUANTITY AND ITEM LIST DESCRIPTION	UNIT	Project Total QTY
05206.0306	CONDUIT EXCAV & BACKFILL (NOT IN ROADWAY)	M	82.00
619.1611	MAINTAIN TRAFFIC SIGNAL EQUIP (REQ A)	INT MO	12.00
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CM	19.00
05680.5050	REMOVE POLE FOUNDATION	M	1.20
05680.5101	ALTER ELEVATION OF PULLBOX	EACH	1.00
680.510201	PULLBOX-CIRC., 450 mm DIA, REINF. CONC.	EACH	2.00
680.510301	PULLBOX-CIRC., 600 mm DIA, REINF. CONC.	EACH	3.00
680.520105	CONDUIT, STEEL, ZINC COATED, 1-1/2 NPS	M	4.00
680.520506	CONDUIT, RIGID PLASTIC, CLASS 1, 2 NPS	M	45.00
680.520508	CONDUIT, RIGID PLASTIC, CLASS 1, 3 NPS	M	139.00
680.53	CONDUIT JACKING OR BORING	M	52.00
05680.530803	CONDUIT, FLEX LIQ-TIGHT NON-METAL, 1 NPS	M	24.00
680.54	INDUCTANCE LOOP INSTALLATION	M	225.00
680.603010	SIGNAL POLE-SPAN WIRE	EACH	1.00
680.603011	SIGNAL POLE-SPAN WIRE	EACH	1.00
680.604010	SIGNAL POLE-SPAN WIRE	EACH	1.00
680.604011	SIGNAL POLE-SPAN WIRE	EACH	1.00
680.6730	SIGNAL POLE-POST TOP MOUNT	EACH	6.00
680.7001	SINGLE SPAN WIRE ASSEMBLY	EACH	6.00
680.71	SHIELDED LEAD-IN CABLE	M	428.00
680.72	INDUCTANCE LOOP WIRE	M	599.00
680.730514	SIGNAL CABLE, 5 CONDUCTORS 14 AWG	M	296.00
680.731914	SIGNAL CABLE, 19 CONDUCTORS 14 AWG	M	253.00
05680.770003	MODIFY TRAFFIC SIGNAL INSTALLATION, LOC 417	ELOC	1.00
05680.7801	ALTER PULLBOX FOR CONDUITS	EACH	3.00
05680.790005	REMOVE TRAFFIC SIGNAL INSTALLATION	ELOC	1.00
680.810101	SIGNAL MODULE-300 mm, RED BALL,LED	EACH	16.00
680.810103	SIGNAL MODULE-300 mm, YELLOW BALL, LED	EACH	12.00
680.810104	SIGNAL MODULE-300 mm, YELLOW ARROW,LED	EACH	4.00
680.810105	SIGNAL MODULE-300 mm, GREEN BALL,LED	EACH	12.00
680.810106	SIGNAL MODULE-300 mm, GREEN ARROW,LED	EACH	4.00
680.810601	SIGNAL SECTION, POLYCARBONITE,TYPE I, 300 mm	EACH	48.00
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EACH	16.00
680.8120	TRAFFIC SIGNAL DISCONNECT HANGER	EACH	16.00
680.813105	PED MODULE - 300mm, BI-MODAL HAND/MAN, LED	EACH	6.00
680.813106	PED SIGNAL SEC. - POLYCARBONATE TYPE I, 300 mm	EACH	12.00
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EACH	6.00
03680.8150	PEDESTRIAN COUNT DOWN TIMER	EACH	6.00
680.8201	OVERHEAD SIGN ASSEMBLY, TYPE A	EACH	6.00
680.8225	PEDESTRIAN PUSHBUTTON AND SIGN - W/O POST	EACH	6.00

SIGNAL HEAD DATA TABLE

FACE \ ITEM	680. 810601	680. 810101	680. 810102	680. 810103	680. 810104	680. 810105	680. 810106	680. 8111	680. 8112	680. 8113	680. 8114	680. 8120
1	3	1		1		1		1				1
2	3	1		1		1		1				1
3	3	1		1		1		1				1
4	3	1		1		1		1				1
5	3	1		1		1		1				1
6	3	1		1		1		1				1
7	3	1		1		1		1				1
8	3	1		1		1		1				1
9	3	1		1		1		1				1
10	3	1		1		1		1				1
11	3	1		1		1		1				1
12	3	1		1		1		1				1
13	3	1			1		1	1				1
14	3	1			1		1	1				1
15	3	1			1		1	1				1
16	3	1			1		1	1				1
TOTAL	48	16		12	4	12	4	16				16

INSTALL TRAFFIC SIGNAL HEADS AT LOCATIONS SHOWN BELOW:
HEADS TO BE ALIGNED IN CENTER OF LANE : 1, 2, 4, 5, 8, 9, 10, 11, 12
HEADS TO BE ALIGNED WITH EDGE OF PAVEMENT: 13, 14, 15, 16
HEADS TO BE ALIGNED WITH CENTERLINE OF MEDIAN : 3, 7
HEAD 6 TO BE ALIGNED 3.3m TO THE RIGHT OF HEAD 5.

DETECTOR DATA TABLE

NO.	680. 54	680. 72	680. 71	05206. 0306	05680. 530803
1A	21	55	117	3	3
1B	21	55			3
2A	20	54	45	2	2
2B	20	54			2
3A	20	54	48	2	2
3B	20	54			2
3C	22	56	48		2
3D	22	56			2
4A	20	54	85	2	2
4B	20	54			2
4C	19	53	85	2	2
TOTAL	225	599	428	11	24

NOTE: 1.83m X 6.1m LOOPS SHALL HAVE 3 TURNS OF WIRE.
NOTE: 1.83m X 1,83m LOOPS SHALL HAVE 4 TURNS OF WIRE.
NOTE: THE LEADING EDGE OF THE FIRST LOOP SHALL BE INSTALLED 1.5m IN FRONT OF THE STOP LINE.

NOTE: UNDER PROVISIONS OF 05680.770003 CONTRACTOR SHALL MODIFY CONTROLLER FOUNDATION BASE TO ACCEPT CONDUIT A.O.B.E.

NOTE: ALL EXISTING TRAFFIC SIGNAL EQUIPMENT WILL REMAIN AS IS UNLESS OTHERWISE NOTED BELOW OR ON THE PLANS.

NOTE: THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT WILL BE REMOVED UNDER THE PROVISIONS OF ITEM 05680.790005, "REMOVE TRAFFIC SIGNAL INSTALLATION, LOCATION 417 ERIE":
4- SPAN WIRE SIGNAL POLES
ALL - TRAFFIC SIGNAL HEADS, SPAN WIRES, AND RELATED WIRING.

NOTE: SPAN WIRE POLES SHALL BECOME PROPERTY OF THE CONTRACTOR

CONTACT THE REGIONAL TRANSPORTATION SYSTEM OPERATIONS ENGINEER FOR OPERATIONAL SCHEDULE AND SIGNAL OPERATION SPECIFICATIONS.

SIGNAL HEAD INDICATIONS



FACE
1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12



FACE
13, 14,
15, 16

(R) RED BALL
(Y) YELLOW BALL
(G) GREEN BALL
RED ARROW
YELLOW ARROW
GREEN ARROW

PREPARED BY: ON:	ALTERED BY: ON:

AS BUILT REVISIONS DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: SIG417.DGN

SIGNAL IMPROVEMENTS/INSTALLATION PROJECT SFY 09/10
VARIOUS LOCATIONS IN REGION 5
COUNTY: ERIE

PIN 5805.90
PS&E DATE 3/17/09

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

RT 263 MILLERSPORT AT COVENTRY

NYSDOT TRAFFIC SIGNAL #417 (ERIE)

CONTRACT NUMBER D261074

DRAWING NO. SIG-12
SHEET NO.

NEW YORK STATE DEPARTMENT OF TRANSPORTAT

DESIGN SUPERVISOR S. S. VAIDYA JOB MANAGER R. LUNZ DESIGNED BY PETER CALABRESE CHECKED BY R. LUNZ
ESTIMATED BY RICHARD LUNZ CHECKED BY P.CALABRESE DRAFTED BY PETER CALABRESE CHECKED BY R. LUNZ
USER = rdgeorge

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

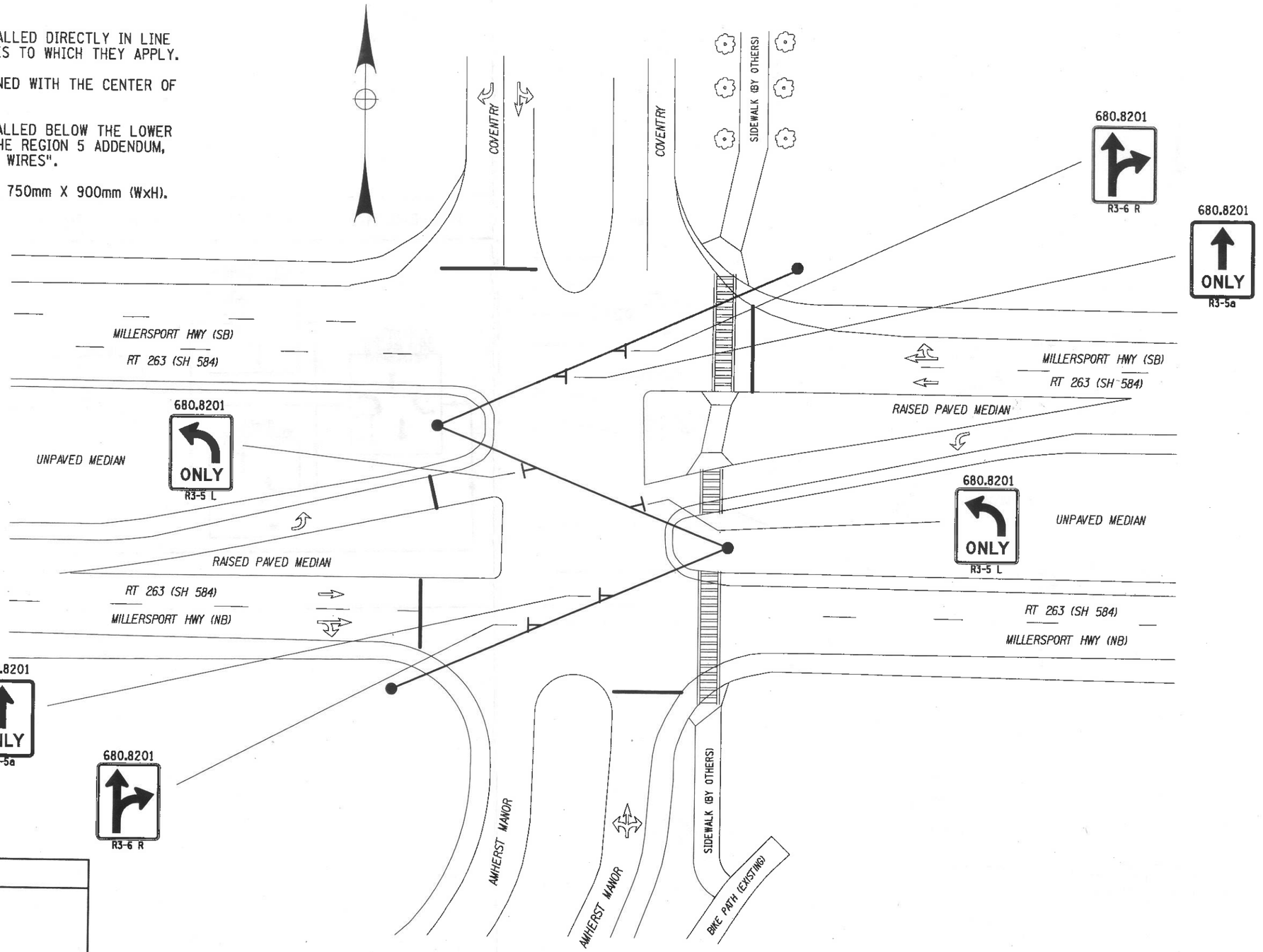
NOTE

ALL SIGNS SHALL BE INSTALLED DIRECTLY IN LINE WITH TRAFFIC IN THE LANES TO WHICH THEY APPLY.

ALL SIGNS SHALL BE ALIGNED WITH THE CENTER OF THEIR ASSOCIATED LANE.

ALL SIGNS SHALL BE INSTALLED BELOW THE LOWER SPAN WIRE AS SHOWN IN THE REGION 5 ADDENDUM, "SIGN MOUNT ON TWO SPAN WIRES".

ALL SIGNS SHALL MEASURE 750mm X 900mm (WxH).



PREPARED BY: ON:	ALTERED BY: ON:

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: SIG417.DGN

SIGNAL IMPROVEMENTS/INSTALLATION PROJECT SFY 09/10
VARIOUS LOCATIONS IN REGION 5

COUNTY: ERIE

PIN 5805.90
PS&E DATE 3/17/09

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

RT 263 MILLERSPORT AT COVENTRY

NYSDOT TRAFFIC SIGNAL #417 (ERIE)

CONTRACT NUMBER D261074

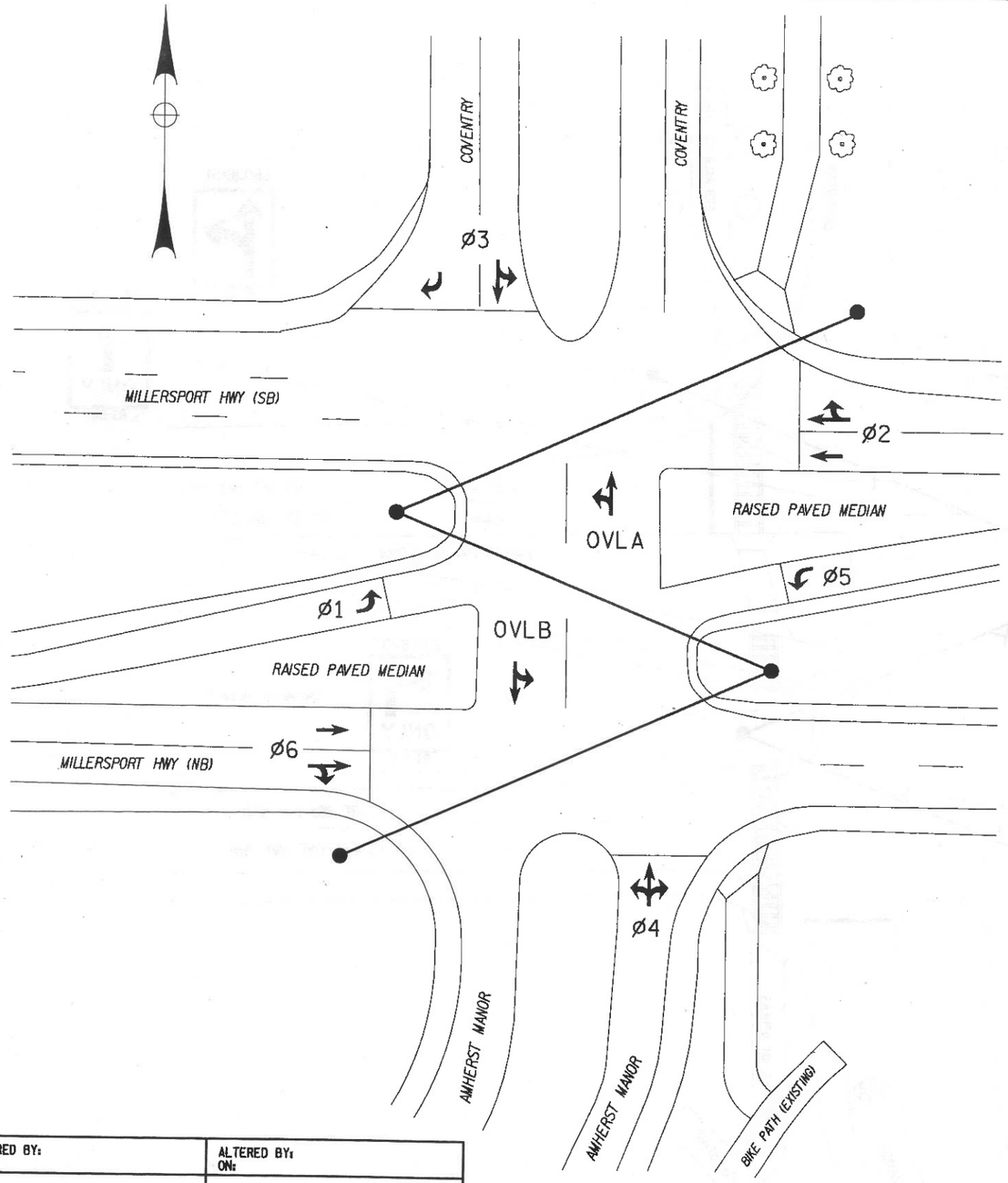
DRAWING NO. SIG-13
SHEET NO. 17

NEW YORK STATE DEPARTMENT OF TRA

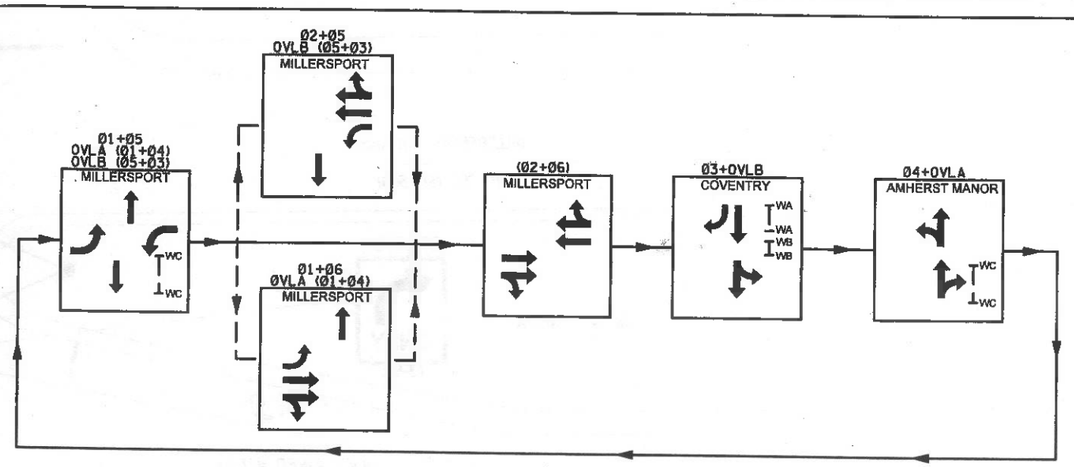
FILE NAME = SIG417.DGN
DATE/TIME = 17-MAR-2009 11:02
USER = rdegeorge

DESIGN SUPERVISOR S. S. VAIDYA JOB MANAGER R. LUNZ DESIGNED BY PETER CALABRESE CHECKED BY R. LUNZ
CHECKED BY RICHARD LUNZ ESTIMATED BY P.CALABRESE DRAFTED BY PETER CALABRESE CHECKED BY R. LUNZ

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



PREFERENTIAL PHASING SEQUENCE FOR MILLERSPORT HWY @ COVENTRY ENTRANCE



PREPARED BY: ON:	ALTERED BY: ON:

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: SIG417.DGN

SIGNAL IMPROVEMENTS/INSTALLATION PROJECT SFY 09/10
VARIOUS LOCATIONS IN REGION 5

COUNTY: ERIE

PIN 5805.90
PS&E DATE 3/17/09

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

RT 263 MILLERSPORT AT COVENTRY

NYSDOT TRAFFIC SIGNAL #417 (ERIE)

CONTRACT NUMBER D261074

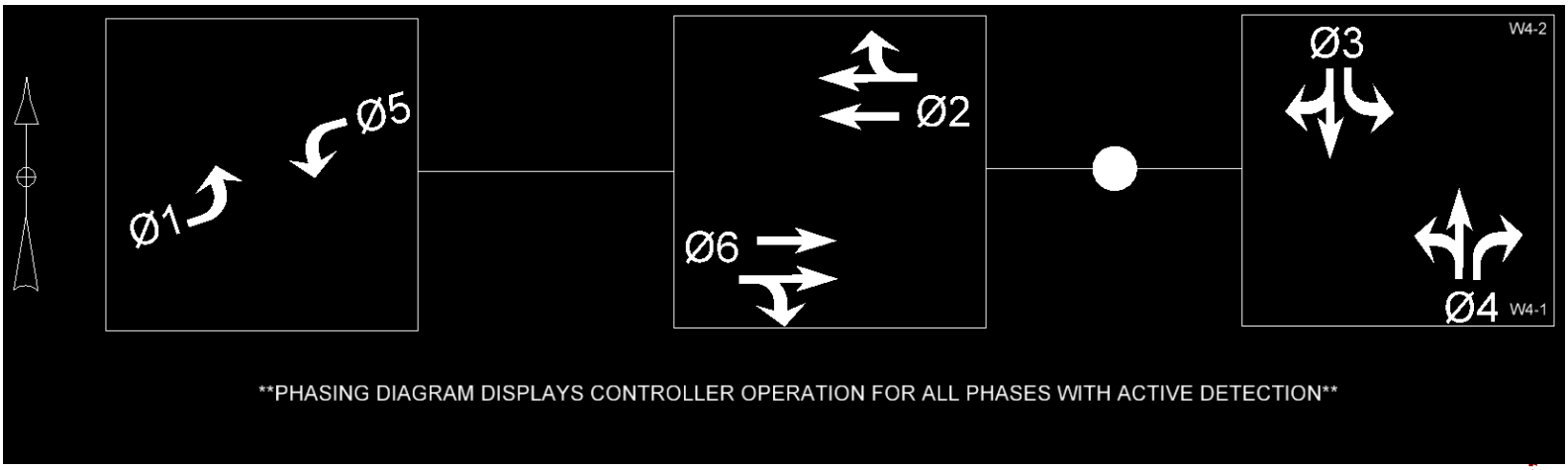
DRAWING NO. SIG-14
SHEET NO.

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 05

DESIGN SUPERVISOR S. S. VAIDYA JOB MANAGER R. LUNZ DESIGNED BY PETER CALABRESE CHECKED BY R. LUNZ
DRAFTED BY PETER CALABRESE ESTIMATED BY P.CALABRESE CHECKED BY RICHARD LUNZ

DATE/TIME = 2/7/2007 11:07
USER = fdegeorge

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A

53417

Phase Times [1.1.1]

	1	2	3	4	5	6	7	8
Min Green	6	35	6	6	6	35		
Gap, Ext	4	5	3	4	3	5		
Max 1	50	55	40	35	25	55		
Max 2								
Yel Clearance	4.3	4.3	3.2	3.2	4.3	4.3	3.5	3.5
Red Clearance	2.5	2.5	4.3	4.3	2.5	2.5	1.5	1.5
Walk				10				
Ped Clearance				33				
Red Revert								
Add Initial								
Max Initial								
Time B4 Reduct								
Cars B4 Reduct								
Time To Reduce								
Reduce By								
Min Gap								
DyMaxLim								
Max Step								

Options [1.1.2]

	1	2	3	4	5	6	7	8
Enable	ON	ON	ON	ON	ON	ON		
Min Recall		ON				ON		
Max Recall								
Ped Recall								
Soft Recall								
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		ON		ON		ON		ON
Enable Simul Gap	ON	ON	ON	ON	ON	ON	ON	ON
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								

Options+ [1.1.3]

	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
Skip Red No Call								
Red Rest								
Max II								
Call Phase								
Conflicting Phase								
Omit Yellow								
Ped Delay								
Grn/Ped Delay								

Coordination Patterns [2.4] and Coordination Split Tables [2.7.1]

Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq
1	0	0	1	1	13	0	0	13	1	25	0	0	0	1	37	0	0	0	1
2	0	0	2	1	14	0	0	14	1	26	0	0	0	1	38	0	0	0	1
3	0	0	3	1	15	0	0	15	1	27	0	0	0	1	39	0	0	0	1
4	0	0	4	1	16	0	0	16	1	28	0	0	0	1	40	0	0	0	1
5	0	0	5	1	17	0	0	17	1	29	0	0	0	1	41	0	0	0	1
6	0	0	6	1	18	0	0	18	1	30	0	0	0	1	42	0	0	0	1
7	0	0	7	1	19	0	0	19	1	31	0	0	0	1	43	0	0	0	1
8	0	0	8	1	20	0	0	20	1	32	0	0	0	1	44	0	0	0	1
9	0	0	9	1	21	0	0	21	1	33	0	0	0	1	45	0	0	0	1
10	0	0	10	1	22	0	0	22	1	34	0	0	0	1	46	0	0	0	1
11	0	0	11	1	23	0	0	23	1	35	0	0	0	1	47	0	0	0	1
12	0	0	12	1	24	0	0	24	1	36	0	0	0	1	48	0	0	0	1

Split		1	2	3	4	5	6	7	8	Split		1	2	3	4	5	6	7	8
1	Coor	0	0	0	0	0	0	0	0	13	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
2	Coor	0	0	0	0	0	0	0	0	14	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
3	Coor	0	0	0	0	0	0	0	0	15	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
4	Coor	0	0	0	0	0	0	0	0	16	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
5	Coor	0	0	0	0	0	0	0	0	17	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
6	Coor	0	0	0	0	0	0	0	0	18	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
7	Coor	0	0	0	0	0	0	0	0	19	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
8	Coor	0	0	0	0	0	0	0	0	20	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
9	Coor	0	0	0	0	0	0	0	0	21	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
10	Coor	0	0	0	0	0	0	0	0	22	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
11	Coor	0	0	0	0	0	0	0	0	23	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
12	Coor	0	0	0	0	0	0	0	0	24	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON

Page#	
1	8 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
1A&1B	16 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
2	Overlaps; Channel Settings; Coord Alt Table+ (values not associated with time-of-day)
3	Detection; Sample Time and Unit Parameters related to detection
4	Preemption and Alternate Phase Time and Phase Options
5	Annual Schedule
6	Day Plans; Action Tables; Coord Alt Table+ (values varied by time-of-day)
7	Communications; Secutiry; I/O Setup
8	Misc - Events/Alarms; Call/Inhibit/Redirect; P/OLAP Auto Flash; CIC; Misc Unit Param

Ring/Startup [1.1.4]

Phs	Ring	Start	Ena
1	1	Red	O
2	1	Green	O
3	1	Red	O
4	1	Red	O
5	2	Red	O
6	2	Green	O
7	2	Red	OI
8	2	Red	OI

Coord Modes [2.1]

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX 1
Force-Off	Float
Closed Loop	ON
Stop-in-Walk	OFF
Auto Reset	ON
Expand Splt	
Ped Recycle	NO_RECYCLE
Before	TIMED
After	TIMED

Auto Flash [1.4.1]

Auto Flash	PH_OVLP
Flash Yel	45
Flash Red	20

Unit Params [1.2.1]

Phase Mode	STD8
IO Mode	User
Loc Flsh Start	Red
Start Flash(s)	0
Start AllRed(s)	6
Yellow < 3"	OFF
Display Time	20
Red Revert	3
MCE Timeout	5
Feature Profile	
Free Ring Seq	1
Auxswitch	STOPTM
SDLC Retry	0
TS2 Det Faults	ON
Auto Ped Clear	OFF
SDLC Retry	0

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Packet Pg. 751

Overlap 1-16 Program Parms & Parm+ [1.5.2.1] [1.5.2.2]

Overlap Conflict Lock	OFF	Overlap Lock Inhibit	OFF	Parent Ph Clearance	ON	Extra Included Ph	OFF

1	Included Ø	1	4							Type	NORMAL	9	Included Ø									Type	NORMAL
	Modifier Ø									Grn	5		Modifier Ø									Grn	
	Conflict Ø									Yel	3.2		Conflict Ø									Yel	3.5
A	Conflict Olap									Red	4.3	I	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
2	Included Ø	3	5							Type	NORMAL	10	Included Ø									Type	NORMAL
	Modifier Ø									Grn	5		Modifier Ø									Grn	
	Conflict Ø									Yel	3.2		Conflict Ø									Yel	3.5
B	Conflict Olap									Red	4.3	J	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
3	Included Ø									Type	NORMAL	11	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
C	Conflict Olap									Red	1.5	K	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
4	Included Ø									Type	NORMAL	12	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
D	Conflict Olap									Red	1.5	L	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
5	Included Ø									Type	NORMAL	13	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conf o0l									Yel	3.5		Conflict Ø									Yel	3.5
E	Conflict Olap									Red	1.5	M	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
6	Included Ø									Type	NORMAL	14	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
F	Conflict Olap									Red	1.5	N	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
7	Included Ø									Type	NORMAL	15	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
G	Conflict Olap									Red	1.5	O	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
8	Included Ø									Type	NORMAL	16	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
H	Conflict Olap									Red	1.5	P	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	

Channel Settings [1.8.1]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Phase / Olap #	1	2	3	4	5	6			1	2	4	4												
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OLP	OLP	PED	PED	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
Channel Flash	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	DRK	DRK	Red	Red	Red	Red	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
Alt Hz																								

Channel+ Settings [1.8.4]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Flash Red+																								
Flash Yellow+																								
Flash Green+																								
Flash Inh Red+																								
Olap Ovrd																								

Coord Transition, CoorPhs [2.5]

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	RetHld	Float	Min Veh Perm	Min Ped Perm
1	12	22							EndGRN				
2	12	22							EndGRN				
3	12	22							EndGRN				
4	12	22							EndGRN				
5	12	22							EndGRN				
6	12	22							EndGRN				
7	12	22							EndGRN				
8	12	22							EndGRN				
9	12	22							EndGRN				
10	12	22							EndGRN				
11	12	22							EndGRN				
12	12	22							EndGRN				
13	12	22							EndGRN				
14	12	22							EndGRN				
15	12	22							EndGRN				
16	12	22							EndGRN				
17	12	22							EndGRN				
18	12	22							EndGRN				
19	12	22							EndGRN				
20	12	22							EndGRN				
21	12	22							EndGRN				
22	12	22							EndGRN				
23	12	22							EndGRN				
24	12	22							EndGRN				
25									BegGRN				
26									BegGRN				
27									BegGRN				
28									BegGRN				
29									BegGRN				
30									BegGRN				
31									BegGRN				
32									BegGRN				
33									BegGRN				
34									BegGRN				
35									BegGRN				
36									BegGRN				
37									BegGRN				
38									BegGRN				
39									BegGRN				
40									BegGRN				
41									BegGRN				
42									BegGRN				
43									BegGRN				
44									BegGRN				
45									BegGRN				
46									BegGRN				
47									BegGRN				
48									BegGRN				

Channel Params[1.8.3]

C1 IO Mode	User	Single BIU Map	DEFAULT	Invert Rail Input	OFF

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
1	1						45	50	2
2	2							50	
3	5						45	50	2
4							45	50	2
5	3		10				45	50	2
6	3		10				45	50	2
7	4		10				45	50	2
8	4		10				45	50	2
9								50	2
10								50	2
11	2							50	2
12	2							50	2
13	6						45	50	2
14	6						45	50	2
15							45	50	2
16							45	50	2
17							45	50	2
18							45	50	2
19							45	50	
20							45	50	
21							45	50	
22							45	50	
23							45	50	
24							45	50	
25							45	50	
26							45	50	
27							45	50	
28							45	50	
29							45	50	
30							45	50	
31							45	50	
32							45	50	

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
33							45	50	
34							45	50	
35							45	50	
36							45	50	
37							45	50	
38							45	50	
39							45	50	
40							45	50	
41							45	50	
42							45	50	
43							45	50	
44							45	50	
45							45	50	
46							45	50	
47							45	50	
48							45	50	
49							45	50	
50							45	50	
51							45	50	
52							45	50	
53							45	50	
54							45	50	
55							45	50	
56							45	50	
57							45	50	
58							45	50	
59							45	50	
60							45	50	
61							45	50	
62							45	50	
63							45	50	
64							45	50	

Vehicle Options 1-64 [5.2]

Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol
1	ON	ON		ON				
2	ON	ON		ON				
3	ON	ON		ON				
4	ON	ON		ON				
5	ON	ON		ON				
6	ON	ON		ON				
7	ON	ON		ON				
8	ON	ON		ON				
9	ON	ON		ON				
10	ON	ON		ON				
11	ON	ON		ON				
12	ON	ON		ON				
13	ON	ON		ON				
14	ON	ON		ON				
15	ON	ON		ON				
16	ON	ON		ON				
17	ON	ON		ON				
18	ON	ON		ON				
19	ON	ON		ON				
20	ON	ON		ON				
21	ON	ON		ON				
22	ON	ON		ON				
23	ON	ON		ON				
24	ON	ON		ON				
25	ON	ON		ON				
26	ON	ON		ON				
27	ON	ON		ON				
28	ON	ON		ON				
29	ON	ON		ON				
30	ON	ON		ON				
31	ON	ON		ON				
32	ON	ON		ON				

Vehicle Options 1-64 [5.2]

Det #	vol	occ	Yell Lock	Red Lock	Ext	Add Init	Que	Call
33					ON	ON		ON
34					ON	ON		ON
35					ON	ON		ON
36					ON	ON		ON
37					ON	ON		ON
38					ON	ON		ON
39					ON	ON		ON
40					ON	ON		ON
41					ON	ON		ON
42					ON	ON		ON
43					ON	ON		ON
44					ON	ON		ON
45					ON	ON		ON
46					ON	ON		ON
47					ON	ON		ON
48					ON	ON		ON
49					ON	ON		ON
50					ON	ON		ON
51					ON	ON		ON
52					ON	ON		ON
53					ON	ON		ON
54					ON	ON		ON
55					ON	ON		ON
56					ON	ON		ON
57					ON	ON		ON
58					ON	ON		ON
59					ON	ON		ON
60					ON	ON		ON
61					ON	ON		ON
62					ON	ON		ON
63					ON	ON		ON
64					ON	ON		ON

Parameters+ 1-64 [5.3]

Det #	oc G	oc Y	oc R	Dlay 1	Dlay 2	Type
1						NORM
2						NORM
3						NORM
4						NORM
5						NORM
6						NORM
7						NORM
8						NORM
9						NORM
10						NORM
11						NORM
12						NORM
13						NORM
14						NORM
15						NORM
16						NORM
17						NORM
18						NORM
19						NORM
20						NORM
21						NORM
22						NORM
23						NORM
24						NORM
25						NORM
26						NORM
27						NORM
28						NORM
29						NORM
30						NORM
31						NORM
32						NORM

Parameters+ 1-64 [5.3]

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
33						NORM	
34						NORM	
35						NORM	
36						NORM	
37						NORM	
38						NORM	
39						NORM	
40						NORM	
41						NORM	
42						NORM	
43						NORM	
44						NORM	
45						NORM	
46						NORM	
47						NORM	
48						NORM	
49						NORM	
50						NORM	
51						NORM	
52						NORM	
53						NORM	
54						NORM	
55						NORM	
56						NORM	
57						NORM	
58						NORM	
59						NORM	
60						NORM	
61						NORM	
62						NORM	
63						NORM	
64						NORM	

Ped Det Parms [5.4]

Det #	Call Ø	No Act	Max Pres	Err Cnt
1	4		15	
2	4		15	
3			15	
4			15	
5			15	
6			15	
7			15	
8			15	

Unit Paramters [1.2.1]

TS2 Det Faults	

Vol/Occ Report Parm [1.5.8]

Vol/Occ Period Minutes	
Vol/Occ Period Minutes	

263 @ Coventry Rd.

8/22/2025 Pa

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)


Src
ON
0
15
≥3

Annual Schedule [4.3]	Month of Year												Day of Week							Date																											Day Plan	Link To
1	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
2	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
3	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
4	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
5	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
6	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
7	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
8	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
9	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
10	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
11	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
12	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
13	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
14	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
15	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
16	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
17	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
18	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
19	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
20	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
21	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
22	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
23	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
24	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	

53417 263 @ Coventry Rd. 8/22/2025 Page 5

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Day Plans [4.4]

Day Plan 1

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 2

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 3

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 4

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 5

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 6

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 7

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 8

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 9

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 10

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 11

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 12

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 13

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 14

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 15

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Action Table [4.5]

Act#	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8
1	1											
2	2											
3	3											
4	4											
5	5											
6	6											
7	7											
8	8											
9	9											
10	10											
11	11											
12	12											
13	13											
14	14											
15	15											
16	16											
17	17											
18	18											
19	19											
20	20											
21	21											
22	22											
23	23											
24	24											
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
48												
98												
99												
100	255											

Coord Alternate Tables - Pat+ [2.6]

Pat#	ØOpt	ØTime	DetG	Call Inh	CIC	CNA1	Overlap Off 1	2	3	4	5	6	7	8	Dia	Max2
1															DFT	
2															DFT	
3															DFT	
4															DFT	
5															DFT	
6															DFT	
7															DFT	
8															DFT	
9															DFT	
10															DFT	
11															DFT	
12															DFT	
13															DFT	
14															DFT	
15															DFT	
16															DFT	
17															DFT	
18															DFT	
19															DFT	
20															DFT	
21															DFT	
22															DFT	
23															DFT	
24															DFT	
25															DFT	
26															DFT	
27															DFT	
28															DFT	
29															DFT	
30															DFT	
31															DFT	
32															DFT	
33															DFT	
34															DFT	
35															DFT	
36															DFT	
37															DFT	
38															DFT	
39															DFT	
40															DFT	
41															DFT	
42															DFT	
43															DFT	
44															DFT	
45															DFT	
46															DFT	
47															DFT	
48															DFT	

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

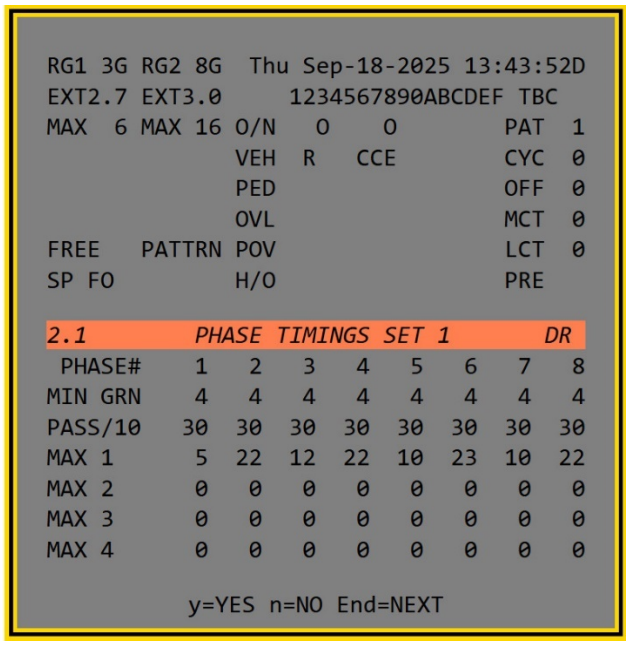
ATTACHMENT A2

ERIE COUNTY SIGNAL TIMINGS

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

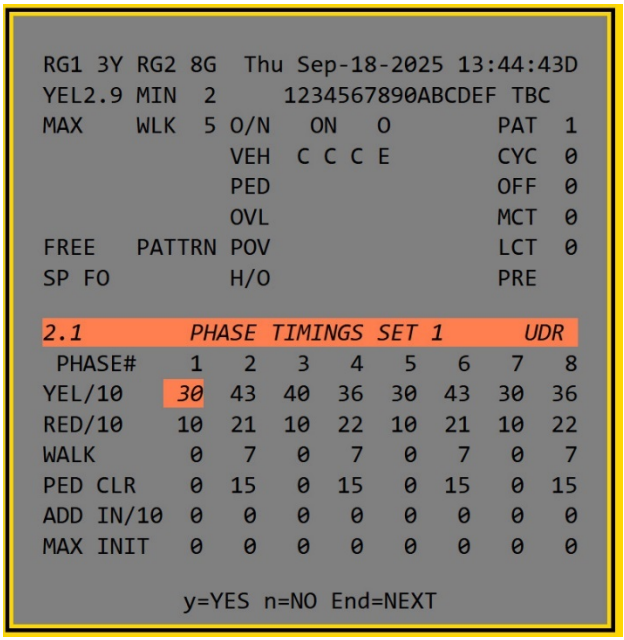
MAPLE ROAD AND FLINT ROAD – WEEKDAY PM



```
RG1 3G RG2 8G  Thu Sep-18-2025 13:43:52D
EXT2.7 EXT3.0     1234567890ABCDEF TBC
MAX  6 MAX 16 O/N   O    O        PAT  1
              VEH  R   CCE        CYC  0
              PED                 OFF  0
              OVL                 MCT  0
FREE   PATTRN POV                 LCT  0
SP FO         H/O                 PRE

2.1          PHASE TIMINGS SET 1        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   4   4   4   4   4   4
PASS/10   30  30  30  30  30  30  30  30
MAX 1      5  22  12  22  10  23  10  22
MAX 2      0   0   0   0   0   0   0   0
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

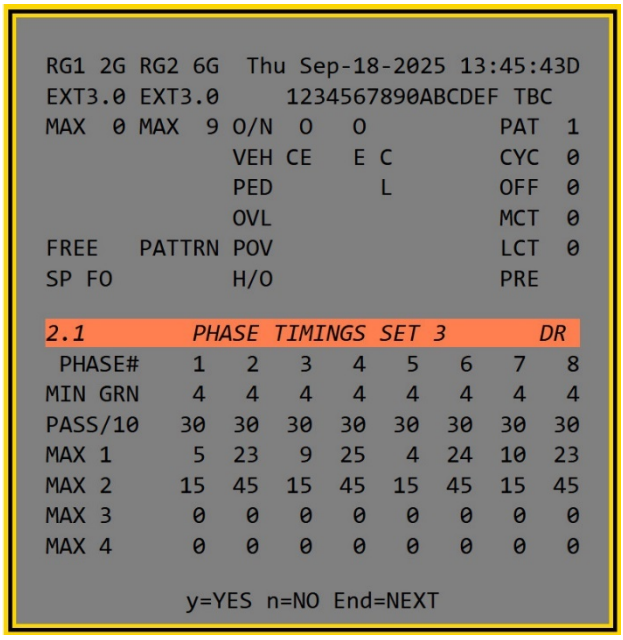


```
RG1 3Y RG2 8G  Thu Sep-18-2025 13:44:43D
YEL2.9 MIN  2     1234567890ABCDEF TBC
MAX    WLK  5 O/N   ON   O        PAT  1
              VEH  C C C E        CYC  0
              PED                 OFF  0
              OVL                 MCT  0
FREE   PATTRN POV                 LCT  0
SP FO         H/O                 PRE

2.1          PHASE TIMINGS SET 1        UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    30  43  40  36  30  43  30  36
RED/10    10  21  10  22  10  21  10  22
WALK       0   7   0   7   0   7   0   7
PED CLR    0  15   0  15   0  15   0  15
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

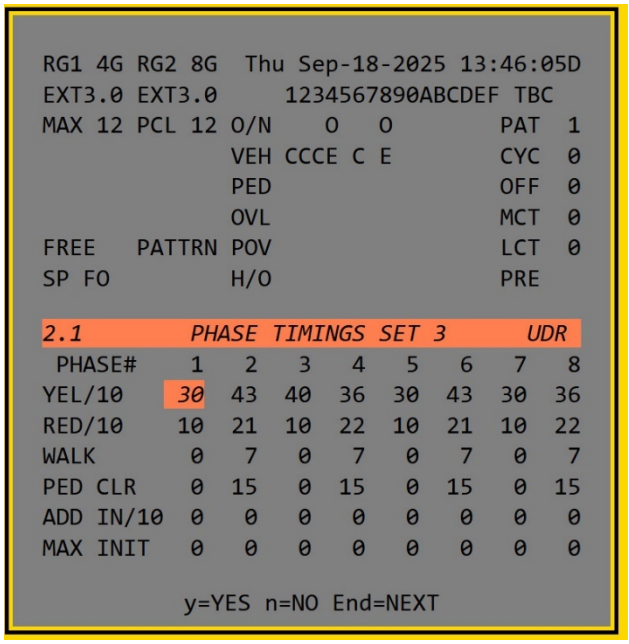
MAPLE ROAD AND FLINT ROAD – WEEKEND MD



```
RG1 2G RG2 6G  Thu Sep-18-2025 13:45:43D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
MAX  0 MAX  9 O/N  O   O          PAT  1
              VEH CE   E C        CYC  0
              PED        L        OFF  0
              OVL                 MCT  0
FREE   PATTRN POV                 LCT  0
SP FO         H/O                 PRE

2.1          PHASE TIMINGS SET 3        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   4   4   4   4   4   4
PASS/10   30  30  30  30  30  30  30  30
MAX 1      5  23   9  25   4  24  10  23
MAX 2     15  45  15  45  15  45  15  45
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```



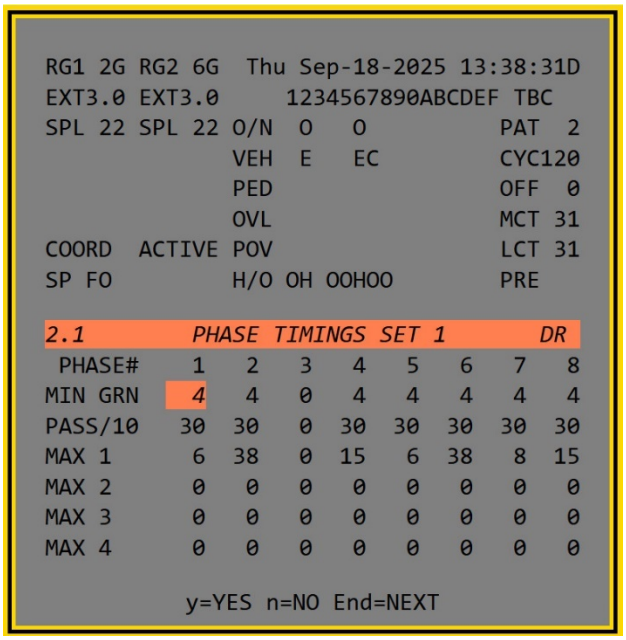
```
RG1 4G RG2 8G  Thu Sep-18-2025 13:46:05D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
MAX 12 PCL 12 O/N    O   O        PAT  1
              VEH CCCE C E        CYC  0
              PED                 OFF  0
              OVL                 MCT  0
FREE   PATTRN POV                 LCT  0
SP FO         H/O                 PRE

2.1          PHASE TIMINGS SET 3        UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    30  43  40  36  30  43  30  36
RED/10    10  21  10  22  10  21  10  22
WALK       0   7   0   7   0   7   0   7
PED CLR    0  15   0  15   0  15   0  15
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

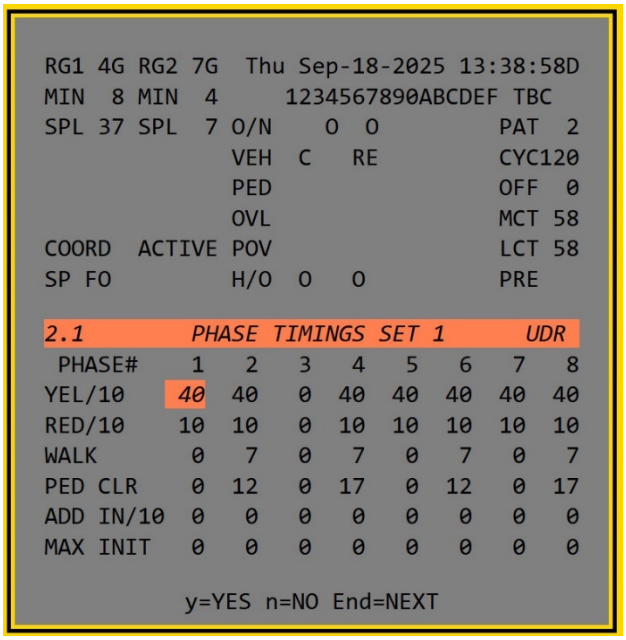
MAPLE ROAD AND N MAPLEMERE ROAD – WEEKDAY PM



```
RG1 2G RG2 6G  Thu Sep-18-2025 13:38:31D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
SPL 22 SPL 22 O/N  O   O          PAT  2
              VEH  E   EC         CYC120
              PED                 OFF  0
              OVL                 MCT 31
COORD  ACTIVE POV                 LCT 31
SP FO         H/O OH OOHOO        PRE

2.1          PHASE TIMINGS SET 1        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   0   4   4   4   4   4
PASS/10   30  30   0  30  30  30  30  30
MAX 1      6  38   0  15   6  38   8  15
MAX 2      0   0   0   0   0   0   0   0
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

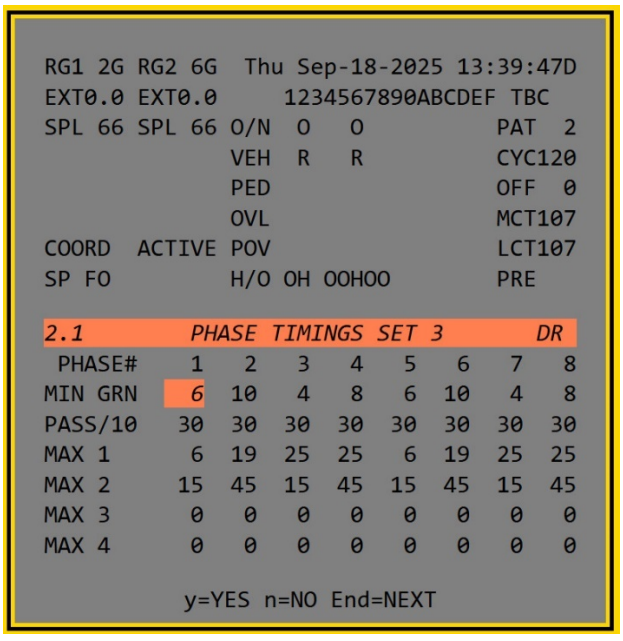


```
RG1 4G RG2 7G  Thu Sep-18-2025 13:38:58D
MIN  8 MIN  4     1234567890ABCDEF TBC
SPL 37 SPL  7 O/N    O  O          PAT  2
              VEH  C   RE         CYC120
              PED                 OFF  0
              OVL                 MCT 58
COORD  ACTIVE POV                 LCT 58
SP FO         H/O  O   O          PRE

2.1          PHASE TIMINGS SET 1       UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    40  40   0  40  40  40  40  40
RED/10    10  10   0  10  10  10  10  10
WALK       0   7   0   7   0   7   0   7
PED CLR    0  12   0  17   0  12   0  17
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

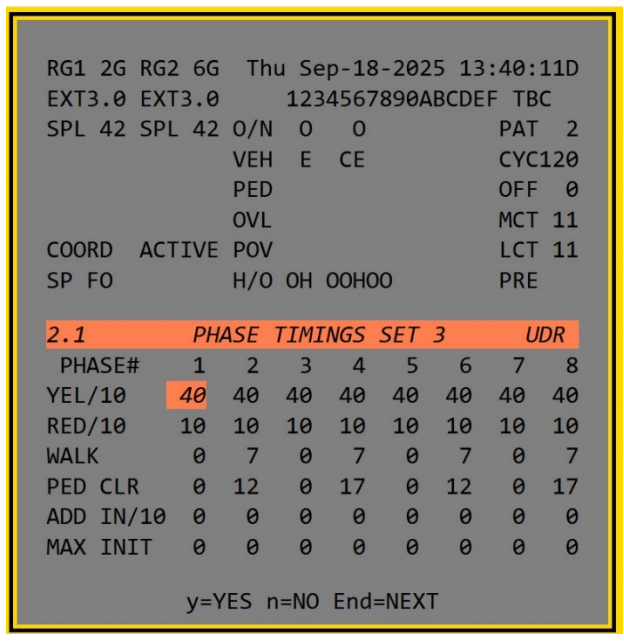
MAPLE ROAD AND N MAPLEMERE ROAD – WEEKEND MD



```
RG1 2G RG2 6G  Thu Sep-18-2025 13:39:47D
EXT0.0 EXT0.0     1234567890ABCDEF TBC
SPL 66 SPL 66 O/N  O   O          PAT  2
              VEH  R   R          CYC120
              PED                 OFF  0
              OVL                 MCT107
COORD  ACTIVE POV                 LCT107
SP FO         H/O OH OOHOO        PRE

2.1          PHASE TIMINGS SET 3        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    6  10   4   8   6  10   4   8
PASS/10   30  30  30  30  30  30  30  30
MAX 1      6  19  25  25   6  19  25  25
MAX 2     15  45  15  45  15  45  15  45
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```



```
RG1 2G RG2 6G  Thu Sep-18-2025 13:40:11D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
SPL 42 SPL 42 O/N  O   O          PAT  2
              VEH  E  CE          CYC120
              PED                 OFF  0
              OVL                 MCT 11
COORD  ACTIVE POV                 LCT 11
SP FO         H/O OH OOHOO        PRE

2.1          PHASE TIMINGS SET 3       UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    40  40  40  40  40  40  40  40
RED/10    10  10  10  10  10  10  10  10
WALK       0   7   0   7   0   7   0   7
PED CLR    0  12   0  17   0  12   0  17
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

MAPLE ROAD AND N FOREST ROAD – WEEKDAY PM

```
RG1 2Y RG2 6Y  Thu Sep-18-2025 13:31:50D
YEL1.3 YEL1.3     1234567890ABCDEF TBC
MAX    MAX     O/N  ON  ON          PAT  1
               VEH  RCC RCC         CYC  0
               PED                  OFF  0
               OVL                  MCT  0
FREE   PATTRN  POV                  LCT  0
SP FO          H/O                  PRE

2.1          PHASE TIMINGS SET 1        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   4   4   4   4   4   4
PASS/10   30  30  30  30  30  30  30  30
MAX 1     11  29  10  23  11  29  10  23
MAX 2      0   0   0   0   0   0   0   0
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

```
RG1 2G RG2 6G  Thu Sep-18-2025 13:33:10D
EXT1.2 EXT1.8     1234567890ABCDEF TBC
MAX  7 MAX  7 O/N  O   O           PAT  1
               VEH  RCC RCC         CYC  0
               PED                  OFF  0
               OVL                  MCT  0
FREE   PATTRN  POV                  LCT  0
SP FO          H/O                  PRE

2.1          PHASE TIMINGS SET 1        UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    30  40  30  40  30  40  30  40
RED/10    10  20  10  20  10  20  10  20
WALK       0   7   0   7   0   7   0   7
PED CLR    0  15   0  15   0  15   0  15
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

MAPLE ROAD AND N FOREST ROAD – WEEKEND MD

```
RG1 2G RG2 6G  Thu Sep-18-2025 13:34:20D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
MAX 10 MAX 25 O/N  O   O           PAT  1
               VEH CE C E           CYC  0
               PED                  OFF  0
               OVL                  MCT  0
FREE   PATTRN  POV                  LCT  0
SP FO          H/O                  PRE

2.1          PHASE TIMINGS SET 3        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   4   4   4   4   4   4
PASS/10   30  30  30  30  30  30  30  30
MAX 1      5  23   4  24   5  23   4  24
MAX 2     15  45  15  45  15  45  15  45
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

```
RG1 4G RG2 7G  Thu Sep-18-2025 13:34:43D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
MAX 17 MAX  4 O/N    O  O          PAT  1
               VEH  R E RE          CYC  0
               PED                  OFF  0
               OVL                  MCT  0
FREE   PATTRN  POV                  LCT  0
SP FO          H/O                  PRE

2.1          PHASE TIMINGS SET 3        UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    30  40  30  40  30  40  30  40
RED/10    10  20  10  20  10  20  10  20
WALK       0   7   0   7   0   7   0   7
PED CLR    0  15   0  15   0  15   0  15
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT B

TURNING MOVEMENT COUNT DATA

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

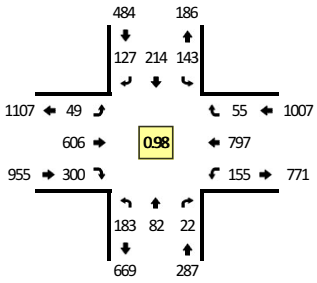
Type of peak hour being reported: Intersection Peak

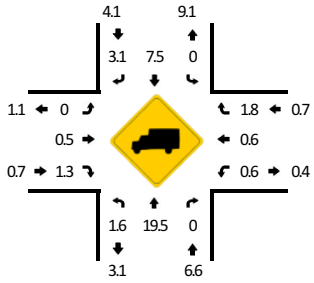
Method for determining peak hour: Total Entering Volume

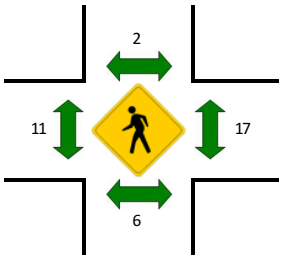
LOCATION: Flint Rd -- Maple Rd
CITY/STATE: University at Buffalo, NY

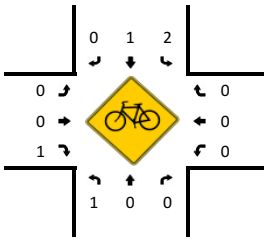
QC JOB #: 17217101
DATE: Thu, Sep 11 2025

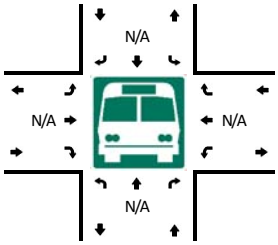
Peak-Hour: 4:30 PM -- 5:30 PM
Peak 15-Min: 5:15 PM -- 5:30 PM

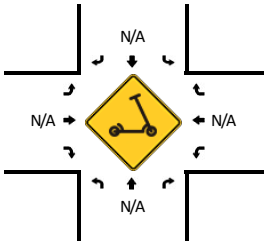


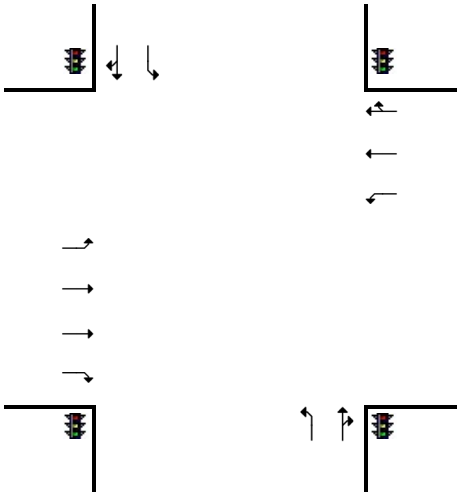












15-Min Count Period Beginning At	Flint Rd (Northbound)				Flint Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	40	13	7	0	35	50	30	0	13	145	65	0	54	197	6	0	655	
4:15 PM	54	15	3	0	22	47	16	0	14	167	56	0	39	192	7	0	632	
4:30 PM	44	22	6	0	51	55	38	0	15	143	71	0	25	209	18	0	697	
4:45 PM	43	20	8	0	33	44	16	0	14	131	69	0	41	203	16	0	638	2622
5:00 PM	38	24	3	0	38	64	37	0	9	164	99	0	38	177	7	0	698	2665
5:15 PM	58	16	5	0	21	51	36	0	11	168	61	0	51	208	14	0	700	2733
5:30 PM	46	17	8	0	24	35	16	0	19	140	58	0	36	194	9	0	602	2638
5:45 PM	49	27	5	0	26	21	19	0	9	124	41	0	19	172	8	0	520	2520
6:00 PM	46	24	2	0	22	17	17	0	9	112	49	0	22	146	12	0	478	2300
6:15 PM	39	16	2	0	25	18	14	0	14	129	62	0	19	129	6	0	473	2073
6:30 PM	41	8	8	0	22	28	17	0	8	121	45	0	22	137	10	0	467	1938
6:45 PM	32	13	4	0	20	21	15	0	10	113	40	0	28	127	10	0	433	1851

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	232	64	20	0	84	204	144	0	44	672	244	0	204	832	56	0	2800
Heavy Trucks	4	8	0		0	24	0		0	0	0		0	8	0		44
Buses																	
Pedestrians		8				8				8				24			48
Bicycles	4	0	0		4	0	0		0	0	0		0	0	0		8
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

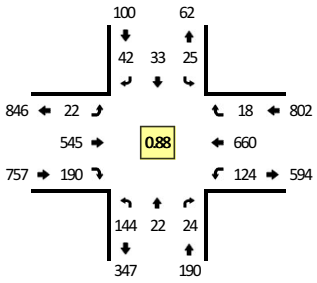
Type of peak hour being reported: Intersection Peak

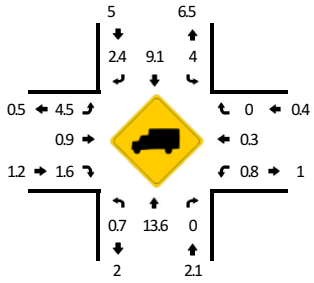
Method for determining peak hour: Total Entering Volume

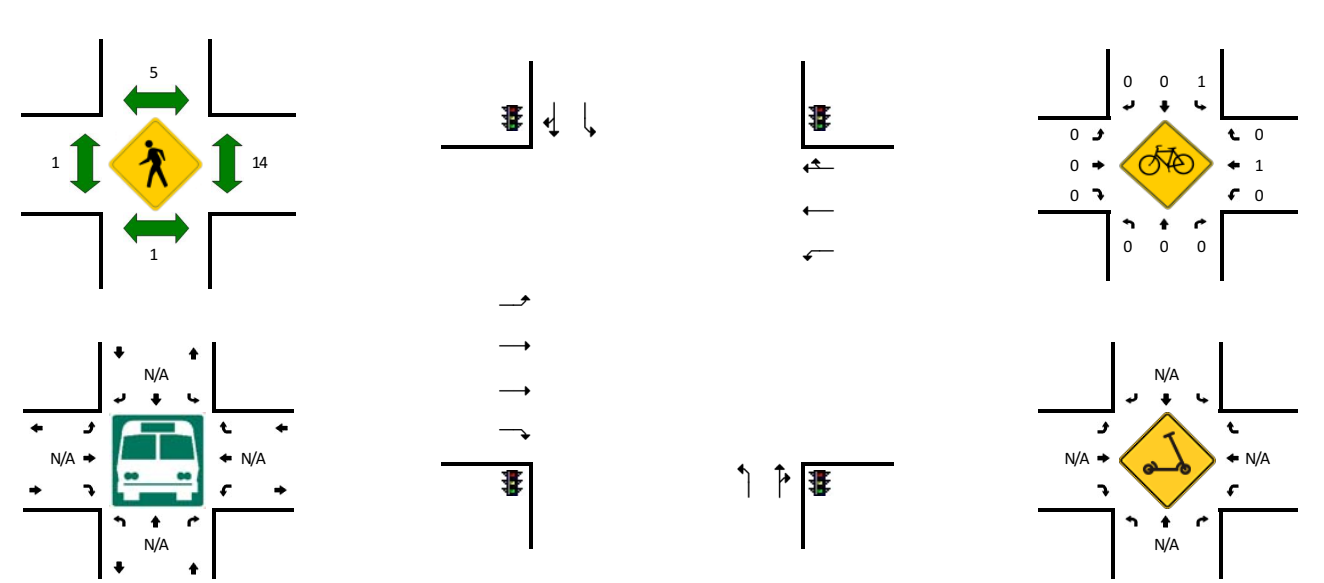
LOCATION: Flint Rd -- Maple Rd
CITY/STATE: University at Buffalo, NY

QC JOB #: 17217102
DATE: Sat, Sep 13 2025

Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM







15-Min Count Period Beginning At	Flint Rd (Northbound)				Flint Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	47	7	5	0	7	9	6	0	4	107	37	0	26	152	9	0	416	
11:15 AM	37	7	6	0	6	3	9	0	7	109	31	0	28	147	5	0	395	
11:30 AM	36	7	6	0	7	5	9	0	3	135	38	0	32	170	7	0	455	
11:45 AM	45	5	3	0	11	8	5	0	2	118	50	0	22	166	3	0	438	1704
12:00 PM	30	7	0	0	9	7	4	0	7	126	41	0	23	154	3	0	411	1699
12:15 PM	42	7	6	0	3	7	5	0	4	150	51	0	19	160	3	0	457	1761
12:30 PM	26	5	4	0	4	4	7	0	5	146	46	0	36	163	3	0	449	1755
12:45 PM	41	7	11	0	9	15	19	0	7	127	46	0	39	194	8	0	523	1840
1:00 PM	35	3	3	0	9	7	11	0	6	122	47	0	30	143	4	0	420	1849
1:15 PM	29	4	5	0	8	7	6	0	7	120	44	0	26	138	4	0	398	1790
1:30 PM	44	7	5	0	3	4	7	0	4	130	42	0	27	151	5	0	429	1770
1:45 PM	26	4	3	0	6	7	9	0	6	125	43	0	27	156	5	0	417	1664

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	164	28	44	0	36	60	76	0	28	508	184	0	156	776	32	0	2092
Heavy Trucks	4	4	0		0	4	4		0	0	0		0	4	0		20
Buses																	
Pedestrians		0				8				0				16			24
Bicycles	0	0	0		4	0	0		0	0	0		0	0	0		4
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

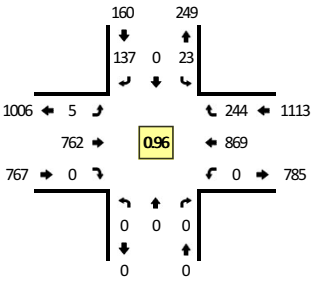
Type of peak hour being reported: Intersection Peak

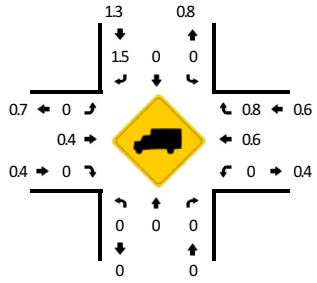
Method for determining peak hour: Total Entering Volume

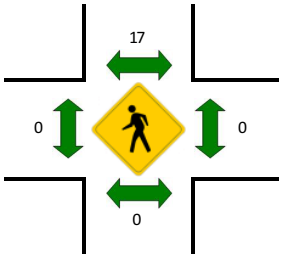
LOCATION: CR 263 SB Ramps -- Maple Rd
CITY/STATE: University at Buffalo, NY

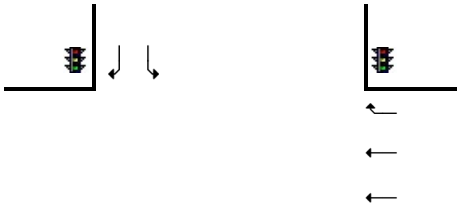
QC JOB #: 17217103
DATE: Thu, Sep 11 2025

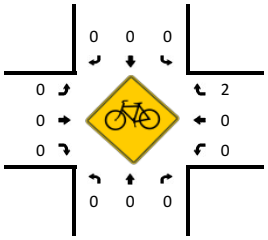
Peak-Hour: 4:30 PM -- 5:30 PM
Peak 15-Min: 5:15 PM -- 5:30 PM

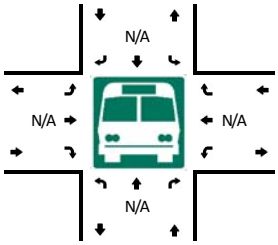




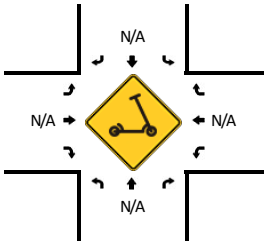












15-Min Count Period Beginning At	CR 263 SB Ramps (Northbound)				CR 263 SB Ramps (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	0	0	0	5	0	29	0	1	182	0	0	0	217	67	0	501	
4:15 PM	0	0	0	0	9	0	27	0	2	192	0	0	0	216	68	0	514	
4:30 PM	0	0	0	0	7	0	24	0	1	189	0	0	0	226	64	0	511	
4:45 PM	0	0	0	0	4	0	24	0	0	178	0	0	0	225	75	0	506	2032
5:00 PM	0	0	0	0	7	0	35	0	3	198	0	0	0	193	58	0	494	2025
5:15 PM	0	0	0	0	5	0	54	0	1	197	0	0	0	225	47	0	529	2040
5:30 PM	0	0	0	0	5	0	34	0	2	166	0	0	0	190	39	0	436	1965
5:45 PM	0	0	0	0	3	0	26	0	1	152	0	0	0	178	43	0	403	1862
6:00 PM	0	0	0	0	2	0	23	0	4	125	0	0	0	151	70	0	375	1743
6:15 PM	0	0	0	0	7	0	28	0	0	156	0	0	0	124	44	0	359	1573
6:30 PM	0	0	0	0	2	0	17	0	4	138	0	0	0	147	36	0	344	1481
6:45 PM	0	0	0	0	5	0	24	0	2	139	0	0	0	139	50	0	359	1437

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	0	0	0	20	0	216	0	4	788	0	0	0	900	188	0	2116
Heavy Trucks	0	0	0		0	0	4		0	0	0		0	4	0		8
Buses																	
Pedestrians		0				20				0				0			20
Bicycles	0	0	0		0	0	0		0	0	0		0	0	8		8
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

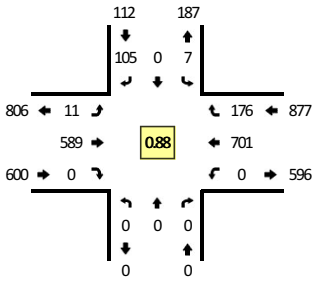
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: CR 263 SB Ramps -- Maple Rd
CITY/STATE: University at Buffalo, NY

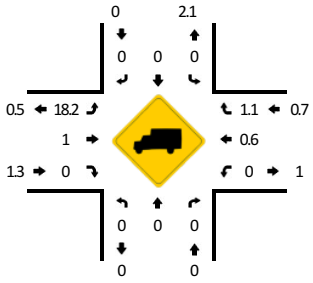
QC JOB #: 17217104
DATE: Sat, Sep 13 2025

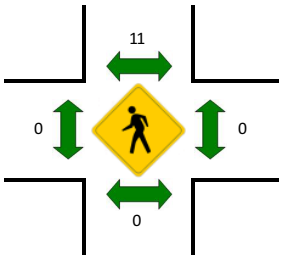
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM

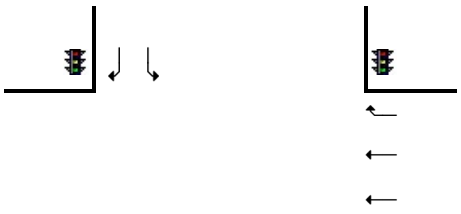


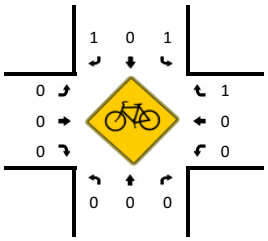


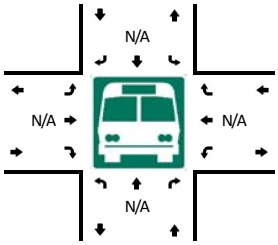
TRUE DATA TO IMPROVE MOBILITY



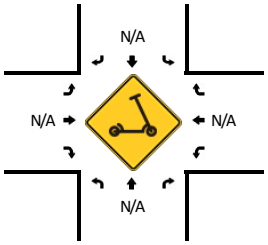












15-Min Count Period Beginning At	CR 263 SB Ramps (Northbound)				CR 263 SB Ramps (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	0	0	0	0	2	0	25	0	2	121	0	0	0	165	32	0	347	
11:15 AM	0	0	0	0	0	0	22	1	1	121	0	0	0	160	49	0	354	
11:30 AM	0	0	0	0	2	0	23	0	2	145	0	0	0	182	41	0	395	
11:45 AM	0	0	0	0	2	0	25	0	5	127	0	0	0	168	52	0	379	1475
12:00 PM	0	0	0	0	0	0	23	0	0	131	0	0	0	157	39	0	350	1478
12:15 PM	0	0	0	0	1	0	31	0	4	159	0	0	0	152	43	0	390	1514
12:30 PM	0	0	0	0	0	0	20	0	2	147	0	0	0	178	38	0	385	1504
12:45 PM	0	0	0	0	2	0	29	0	4	149	0	0	0	216	50	0	450	1575
1:00 PM	0	0	0	0	4	0	25	0	1	134	0	0	0	155	45	0	364	1589
1:15 PM	0	0	0	0	2	0	30	0	1	130	0	0	0	129	38	0	330	1529
1:30 PM	0	0	0	0	3	0	25	0	2	137	0	0	0	161	33	0	361	1505
1:45 PM	0	0	0	0	4	0	33	0	1	134	0	0	0	152	45	0	369	1424

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	0	0	0	8	0	116	0	16	596	0	0	0	864	200	0	1800
Heavy Trucks	0	0	0		0	0	0		0	4	0		0	4	4		12
Buses																	
Pedestrians		0				20				0				0			20
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

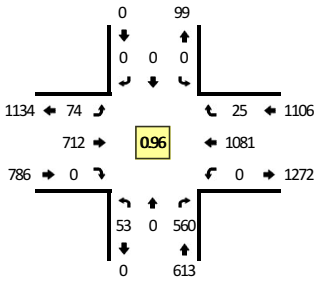
Type of peak hour being reported: Intersection Peak

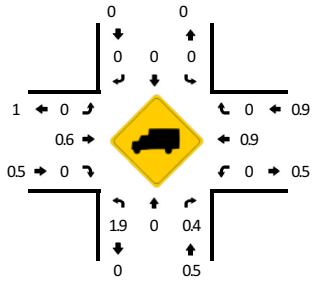
Method for determining peak hour: Total Entering Volume

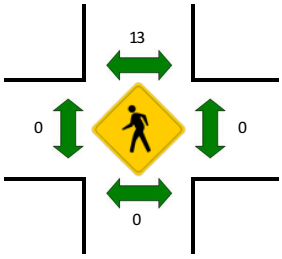
LOCATION: CR 263 NB Ramps -- Maple Rd
CITY/STATE: Erie, NY

QC JOB #: 17217105
DATE: Thu, Sep 11 2025

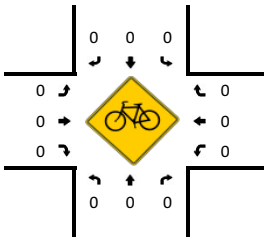
Peak-Hour: 4:15 PM -- 5:15 PM
Peak 15-Min: 4:30 PM -- 4:45 PM

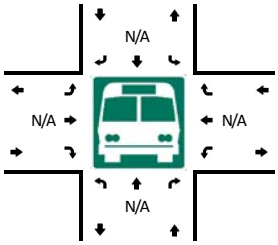


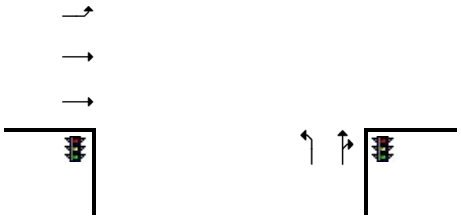


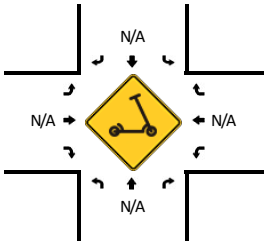












15-Min Count Period Beginning At	CR 263 NB Ramps (Northbound)				CR 263 NB Ramps (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	10	0	124	0	0	0	0	0	18	168	0	0	0	274	7	0	601	
4:15 PM	19	0	127	0	0	0	0	0	17	183	0	0	0	268	3	0	617	
4:30 PM	9	0	153	0	0	0	0	0	15	179	0	0	0	287	10	0	653	
4:45 PM	17	0	141	0	0	0	0	0	22	163	0	0	0	285	5	0	633	2504
5:00 PM	8	0	139	0	0	0	0	0	20	187	0	0	0	241	7	0	602	2505
5:15 PM	18	0	135	0	0	0	0	0	12	189	0	0	0	254	6	0	614	2502
5:30 PM	12	1	104	0	0	0	0	0	19	152	0	0	0	219	10	0	517	2366
5:45 PM	13	0	120	0	0	0	0	0	16	136	0	0	0	213	7	0	505	2238
6:00 PM	6	0	96	0	0	0	0	0	15	114	0	0	0	210	6	0	447	2083
6:15 PM	11	0	104	0	0	0	0	0	19	144	0	0	0	154	5	0	437	1906
6:30 PM	12	0	96	0	0	0	0	0	8	129	0	0	0	172	4	0	421	1810
6:45 PM	10	0	88	0	0	0	0	0	18	126	0	0	0	178	7	0	427	1732

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	36	0	612	0	0	0	0	0	60	716	0	0	0	1148	40	0	2612
Heavy Trucks	0	0	4		0	0	0		0	8	0		0	12	0		24
Buses																	
Pedestrians		0				16				0				0			16
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

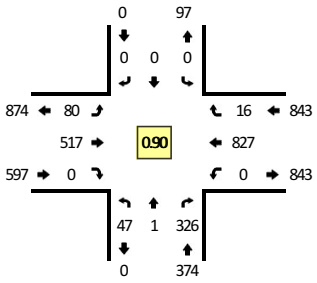
Type of peak hour being reported: Intersection Peak

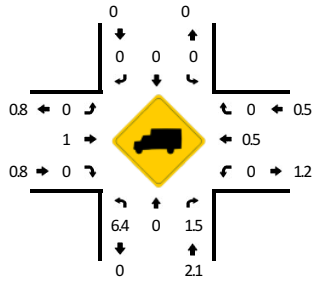
Method for determining peak hour: Total Entering Volume

LOCATION: CR 263 NB Ramps -- Maple Rd
CITY/STATE: Erie, NY

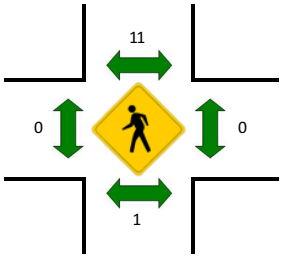
QC JOB #: 17217106
DATE: Sat, Sep 13 2025

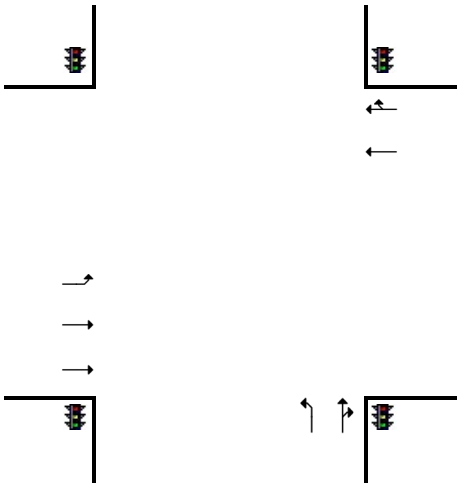
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM

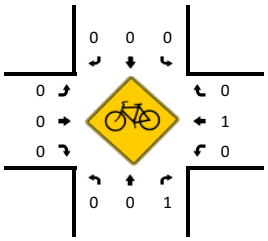


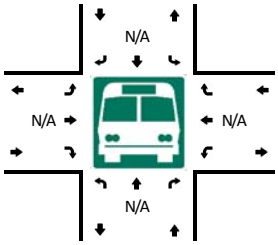


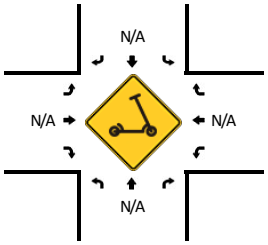












15-Min Count Period Beginning At	CR 263 NB Ramps (Northbound)				CR 263 NB Ramps (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	10	0	86	0	0	0	0	0	18	109	0	0	0	186	2	0	411	
11:15 AM	11	0	78	0	0	0	0	0	11	110	0	0	0	198	6	0	414	
11:30 AM	12	2	76	0	0	0	0	0	14	130	0	0	0	212	8	0	454	
11:45 AM	22	0	78	0	0	0	0	0	11	120	0	0	0	200	2	0	433	1712
12:00 PM	13	0	93	0	0	0	0	0	16	116	0	0	0	184	2	0	424	1725
12:15 PM	9	1	86	0	0	0	0	0	17	144	0	0	0	184	5	0	446	1757
12:30 PM	12	0	74	0	0	0	0	0	17	126	0	0	0	203	1	0	433	1736
12:45 PM	16	0	84	0	0	0	0	0	21	130	0	0	0	250	5	0	506	1809
1:00 PM	10	0	82	0	0	0	0	0	25	117	0	0	0	190	5	0	429	1814
1:15 PM	10	0	74	0	0	0	0	0	15	117	0	0	0	156	4	0	376	1744
1:30 PM	6	0	76	0	0	0	0	0	21	115	0	0	0	188	4	0	410	1721
1:45 PM	3	0	79	0	0	0	0	0	15	126	0	0	0	194	3	0	420	1635

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	64	0	336	0	0	0	0	0	84	520	0	0	0	1000	20	0	2024
Heavy Trucks	0	0	8		0	0	0		0	0	0		0	8	0		16
Buses																	
Pedestrians		0				8				0				0			8
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

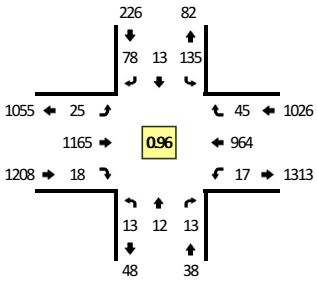
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

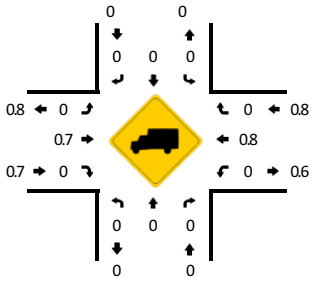
LOCATION: N Maplemere Rd -- Maple Rd
CITY/STATE: Erie, NY

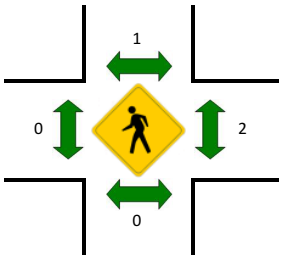
QC JOB #: 17217107
DATE: Thu, Sep 11 2025

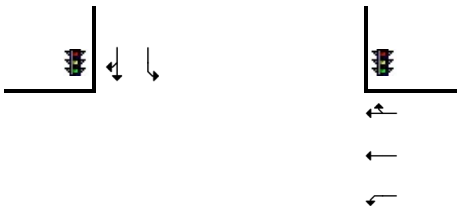
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:30 PM -- 4:45 PM

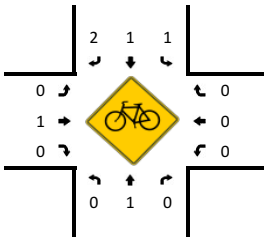


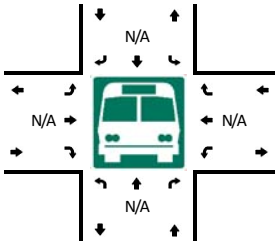




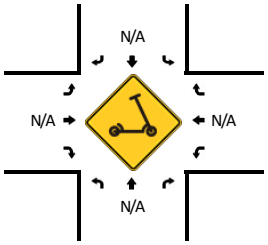












15-Min Count Period Beginning At	N Maplemere Rd (Northbound)				N Maplemere Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	2	0	5	0	34	4	45	0	7	278	2	0	6	210	11	0	604	
4:15 PM	1	1	2	0	31	2	10	0	5	282	5	0	2	243	14	0	598	
4:30 PM	4	5	3	0	31	3	14	0	8	318	6	0	3	247	6	0	648	
4:45 PM	6	6	3	0	39	4	9	0	5	287	5	0	6	264	14	0	648	2498
5:00 PM	3	1	4	0	23	2	11	0	6	308	5	0	2	221	9	0	595	2489
5:15 PM	5	1	3	0	20	5	10	0	6	300	6	0	4	221	16	0	597	2488
5:30 PM	7	1	1	0	20	4	12	0	9	228	5	0	2	198	14	0	501	2341
5:45 PM	1	2	1	0	12	1	13	0	11	227	8	0	5	190	19	0	490	2183
6:00 PM	5	3	2	0	15	1	9	0	8	192	4	0	1	178	8	0	426	2014
6:15 PM	2	4	6	0	14	5	10	0	15	202	3	0	2	134	15	0	412	1829
6:30 PM	2	0	4	0	22	2	8	0	9	215	3	0	3	159	13	0	440	1768
6:45 PM	3	3	1	0	20	2	5	0	2	189	1	0	4	163	7	0	400	1678

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	16	20	12	0	124	12	56	0	32	1272	24	0	12	988	24	0	2592
Heavy Trucks	0	0	0		0	0	0		0	16	0		0	12	0		28
Buses																	
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	8		0	0	0		0	0	0		8
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

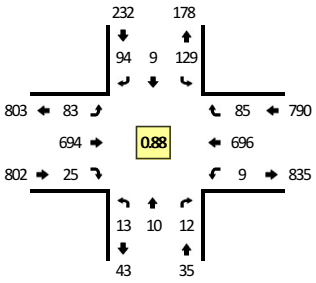
Type of peak hour being reported: Intersection Peak

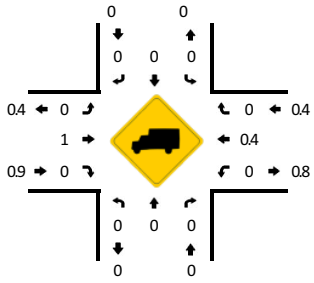
Method for determining peak hour: Total Entering Volume

LOCATION: N Maplemere Rd -- Maple Rd
CITY/STATE: Erie, NY

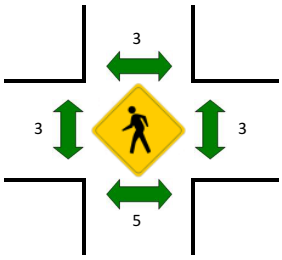
QC JOB #: 17217108
DATE: Sat, Sep 13 2025

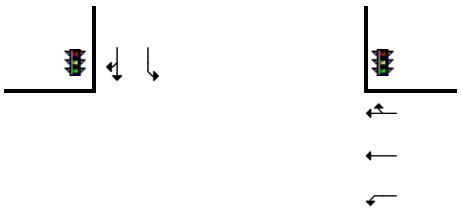
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM

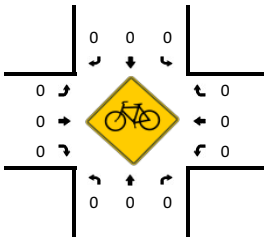


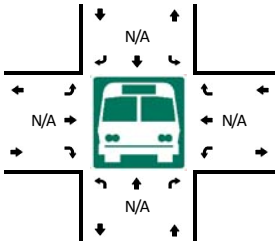


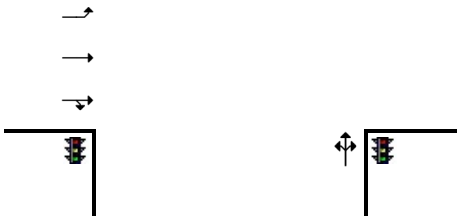
TRUE DATA TO IMPROVE MOBILITY

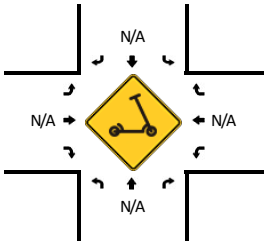












15-Min Count Period Beginning At	N Maplemere Rd (Northbound)				N Maplemere Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	2	0	2	0	11	2	7	0	17	156	2	0	3	167	14	0	383	
11:15 AM	2	0	4	0	11	1	4	0	7	167	5	0	6	180	11	0	398	
11:30 AM	4	0	2	0	10	0	29	0	12	180	1	0	3	166	17	0	424	
11:45 AM	1	4	6	0	7	2	10	0	7	182	3	0	3	180	15	0	420	1625
12:00 PM	3	1	4	0	11	2	9	0	7	181	8	0	3	159	4	0	392	1634
12:15 PM	5	3	2	0	7	1	12	0	16	194	4	0	1	171	9	0	425	1661
12:30 PM	3	3	3	0	38	3	17	0	25	172	5	0	2	177	27	0	475	1712
12:45 PM	5	4	1	0	55	4	34	0	24	168	7	0	3	197	28	0	530	1822
1:00 PM	0	0	6	0	29	1	31	0	18	160	9	0	3	151	21	0	429	1859
1:15 PM	2	1	2	0	5	2	4	0	12	165	2	0	4	153	14	0	366	1800
1:30 PM	2	1	3	0	14	0	7	0	6	182	3	0	2	176	7	0	403	1728
1:45 PM	3	0	1	0	7	2	20	0	11	181	2	0	3	163	12	0	405	1603

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	20	16	4	0	220	16	136	0	96	672	28	0	12	788	112	0	2120
Heavy Trucks	0	0	0		0	0	0		0	4	0		0	8	0		12
Buses																	
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

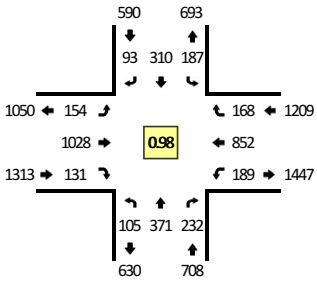
Type of peak hour being reported: Intersection Peak

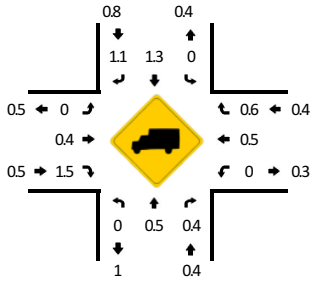
Method for determining peak hour: Total Entering Volume

LOCATION: N Forest Rd -- Maple Rd
CITY/STATE: Erie, NY

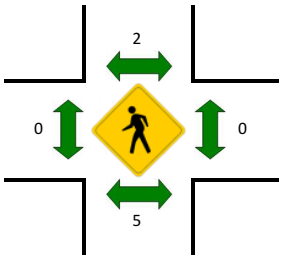
QC JOB #: 17217109
DATE: Thu, Sep 11 2025

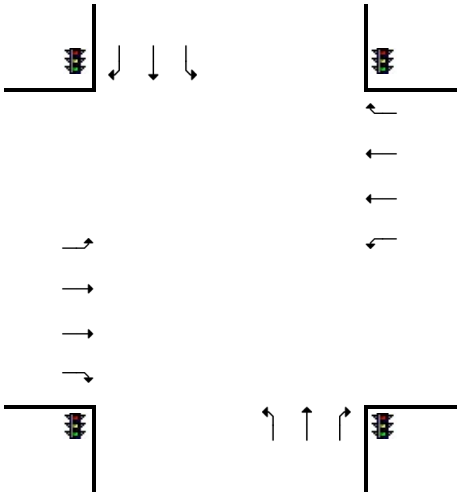
Peak-Hour: 4:30 PM -- 5:30 PM
Peak 15-Min: 4:45 PM -- 5:00 PM

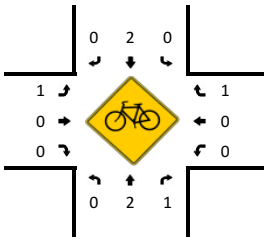


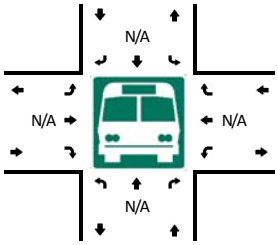


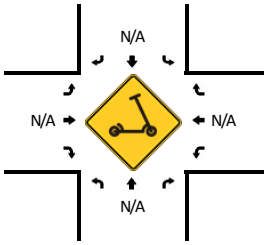
TRUE DATA TO IMPROVE MOBILITY











15-Min Count Period Beginning At	N Forest Rd (Northbound)				N Forest Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	31	79	55	0	48	84	30	0	46	225	32	0	41	182	28	0	881	
4:15 PM	31	88	52	0	48	72	19	0	44	227	30	0	41	219	47	0	918	
4:30 PM	30	92	69	0	42	62	22	0	28	266	39	0	39	215	35	0	939	
4:45 PM	25	93	48	0	40	85	27	0	36	263	32	0	48	229	49	0	975	3713
5:00 PM	26	97	61	0	50	68	22	0	45	266	25	0	52	214	39	0	965	3797
5:15 PM	24	89	54	0	55	95	22	0	45	233	35	0	50	194	45	0	941	3820
5:30 PM	19	86	46	0	39	57	20	0	33	197	16	0	51	163	26	0	753	3634
5:45 PM	16	68	57	0	41	55	38	0	36	186	18	0	37	165	41	0	758	3417
6:00 PM	11	51	38	0	40	60	34	0	23	163	30	0	31	164	32	0	677	3129
6:15 PM	13	50	36	0	35	61	24	0	27	169	7	0	22	109	26	0	579	2767
6:30 PM	14	57	40	0	30	52	24	0	40	189	19	0	39	137	17	0	658	2672
6:45 PM	13	49	32	0	28	44	16	0	29	159	24	0	31	139	33	0	597	2511

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	100	372	192	0	160	340	108	0	144	1052	128	0	192	916	196	0	3900
Heavy Trucks	0	4	0		0	4	0		0	0	0		0	4	0		12
Buses																	
Pedestrians		4				0				0				0			4
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

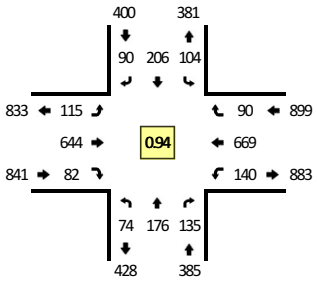
Type of peak hour being reported: Intersection Peak

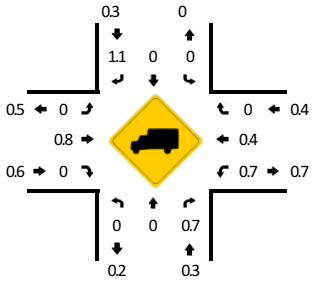
Method for determining peak hour: Total Entering Volume

LOCATION: N Forest Rd -- Maple Rd
CITY/STATE: Erie, NY

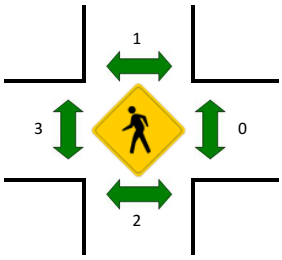
QC JOB #: 17217110
DATE: Sat, Sep 13 2025

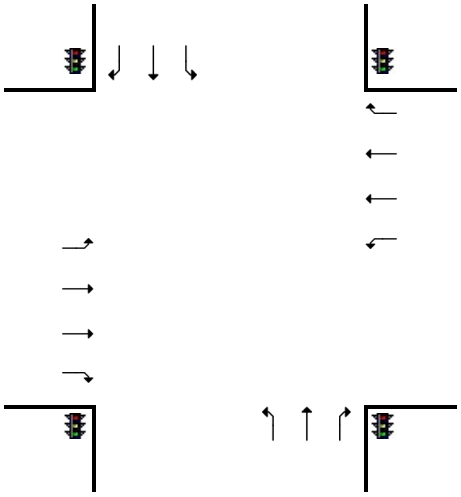
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM

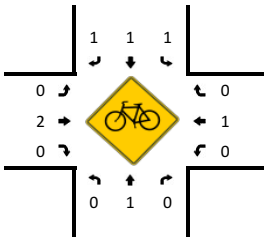


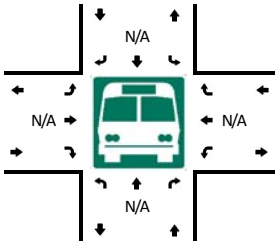


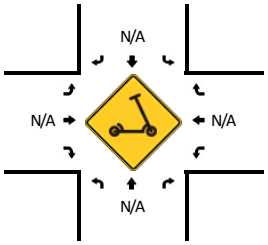
TRUE DATA TO IMPROVE MOBILITY











15-Min Count Period Beginning At	N Forest Rd (Northbound)				N Forest Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	21	42	31	0	23	52	28	0	23	138	11	0	19	140	17	0	545	
11:15 AM	14	45	24	0	37	45	35	0	20	145	13	0	32	156	29	0	595	
11:30 AM	17	53	28	0	26	50	22	0	27	133	11	0	40	142	23	0	572	
11:45 AM	12	48	34	0	23	50	28	0	26	163	16	0	42	157	28	0	627	2339
12:00 PM	14	39	38	0	16	31	26	0	30	152	17	0	42	136	24	0	565	2359
12:15 PM	16	47	38	0	30	55	22	0	35	155	17	0	41	152	21	0	629	2393
12:30 PM	23	45	32	0	23	58	17	0	29	143	26	0	33	182	22	0	633	2454
12:45 PM	19	43	32	0	23	55	28	0	22	187	20	0	34	184	23	0	670	2497
1:00 PM	16	41	33	0	28	38	23	0	29	159	19	0	32	151	24	0	593	2525
1:15 PM	15	49	19	0	28	38	17	0	24	122	15	0	40	140	8	0	515	2411
1:30 PM	14	52	32	0	19	46	23	0	28	153	16	0	41	130	17	0	571	2349
1:45 PM	16	30	27	0	24	40	17	0	15	147	15	0	42	152	22	0	547	2226

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	76	172	128	0	92	220	112	0	88	748	80	0	136	736	92	0	2680
Heavy Trucks	0	0	4		0	0	4		0	4	0		4	8	0		24
Buses																	
Pedestrians		0				0				4				0			4
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

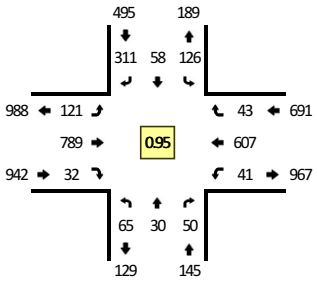
Type of peak hour being reported: Intersection Peak

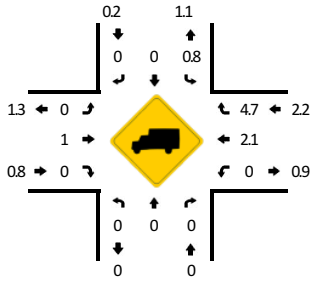
Method for determining peak hour: Total Entering Volume

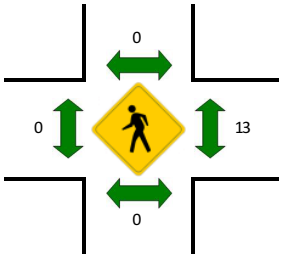
LOCATION: Coventry Rd/N Maplemere Rd -- CR 263
CITY/STATE: University at Buffalo, NY

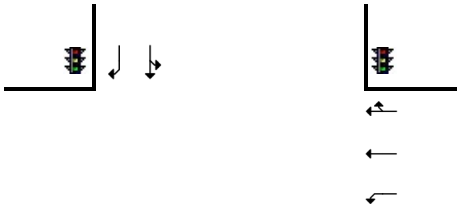
QC JOB #: 17217111
DATE: Thu, Sep 11 2025

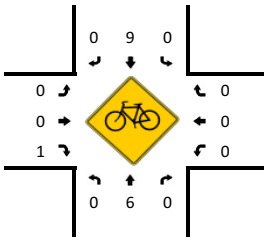
Peak-Hour: 4:30 PM -- 5:30 PM
Peak 15-Min: 5:00 PM -- 5:15 PM

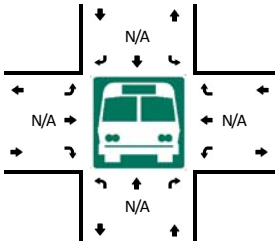


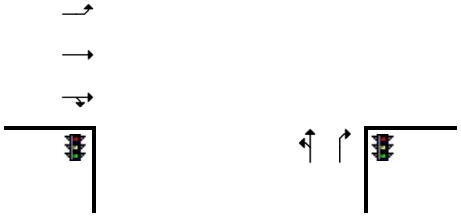


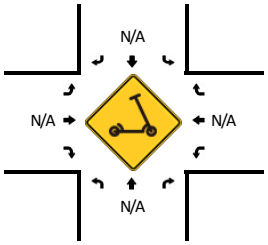












15-Min Count Period Beginning At	Coventry Rd/N Maplemere Rd (Northbound)				Coventry Rd/N Maplemere Rd (Southbound)				CR 263 (Eastbound)				CR 263 (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	32	4	26	0	12	17	60	0	29	195	9	3	8	149	11	0	555	
4:15 PM	20	5	13	0	16	14	28	0	25	186	6	5	6	136	6	1	467	
4:30 PM	24	4	18	0	32	17	69	0	30	144	8	3	13	147	13	1	523	
4:45 PM	14	11	14	0	26	17	65	0	37	225	4	0	6	157	15	1	592	2137
5:00 PM	18	10	9	0	50	12	111	0	19	196	8	1	6	153	8	0	601	2183
5:15 PM	9	5	9	0	18	12	66	0	30	224	12	1	14	150	7	0	557	2273
5:30 PM	2	2	10	0	20	11	57	0	29	176	3	4	21	117	9	0	461	2211
5:45 PM	4	8	11	0	16	6	45	0	23	172	7	2	7	125	6	0	432	2051
6:00 PM	8	7	11	0	15	7	51	0	29	159	7	1	14	157	9	0	475	1925
6:15 PM	9	14	13	0	18	12	53	0	33	125	2	1	8	108	12	0	408	1776
6:30 PM	3	14	9	0	11	12	42	0	42	130	5	2	6	132	9	0	417	1732
6:45 PM	4	4	5	0	24	10	48	0	33	107	3	2	6	85	12	0	343	1643

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	72	40	36	0	200	48	444	0	76	784	32	4	24	612	32	0	2404
Heavy Trucks	0	0	0		4	0	0		0	8	0		0	4	0		16
Buses																	
Pedestrians		0				0				0				16			16
Bicycles	0	0	0		0	12	0		0	0	4		0	0	0		16
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

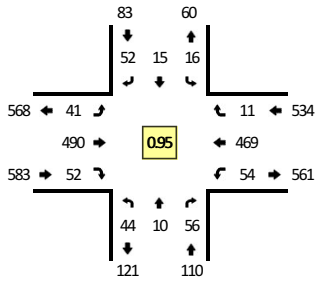
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

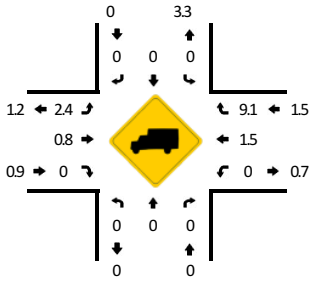
LOCATION: Coventry Rd/N Maplemere Rd -- CR 263
CITY/STATE: University at Buffalo, NY

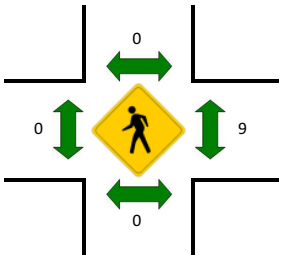
QC JOB #: 17217112
DATE: Sat, Sep 13 2025

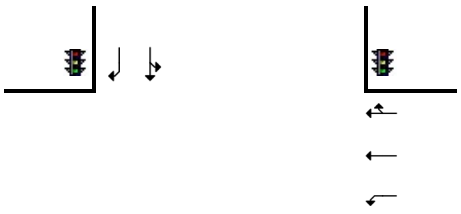
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 1:00 PM -- 1:15 PM

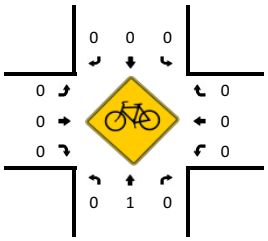


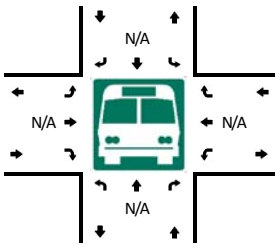


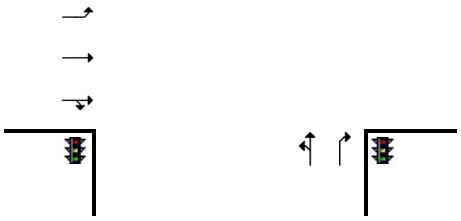


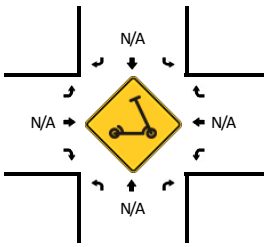












15-Min Count Period Beginning At	Coventry Rd/N Maplemere Rd (Northbound)				Coventry Rd/N Maplemere Rd (Southbound)				CR 263 (Eastbound)				CR 263 (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	6	3	6	0	2	7	11	0	11	108	10	1	7	134	3	1	310	
11:15 AM	10	5	16	0	6	2	16	0	12	117	4	1	2	112	2	0	305	
11:30 AM	17	3	3	0	9	8	35	0	21	87	9	1	7	103	3	1	307	
11:45 AM	3	2	9	0	8	3	25	0	14	110	8	0	10	136	6	0	334	1256
12:00 PM	5	1	7	0	4	7	19	0	13	122	4	1	6	86	3	1	279	1225
12:15 PM	7	3	5	0	5	2	14	1	5	107	14	1	9	123	2	0	298	1218
12:30 PM	10	3	12	0	2	1	10	0	8	127	15	0	17	122	1	0	328	1239
12:45 PM	7	3	16	0	6	10	11	0	14	131	13	0	21	103	5	0	340	1245
1:00 PM	20	1	23	0	2	2	17	0	11	125	10	2	7	121	3	0	344	1310
1:15 PM	4	1	3	0	4	1	14	0	9	113	11	3	8	101	5	0	277	1289
1:30 PM	10	3	5	0	3	1	5	0	13	122	8	1	8	117	3	0	299	1260
1:45 PM	9	5	8	0	8	2	17	0	13	102	8	3	12	98	6	0	291	1211

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	80	4	92	0	8	8	68	0	44	500	40	8	28	484	12	0	1376
Heavy Trucks	0	0	0		0	0	0		0	8	0		0	0	0		8
Buses																	
Pedestrians		0				0				0				12			12
Bicycles	0	4	0		0	0	0		0	0	0		0	0	0		4
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT C

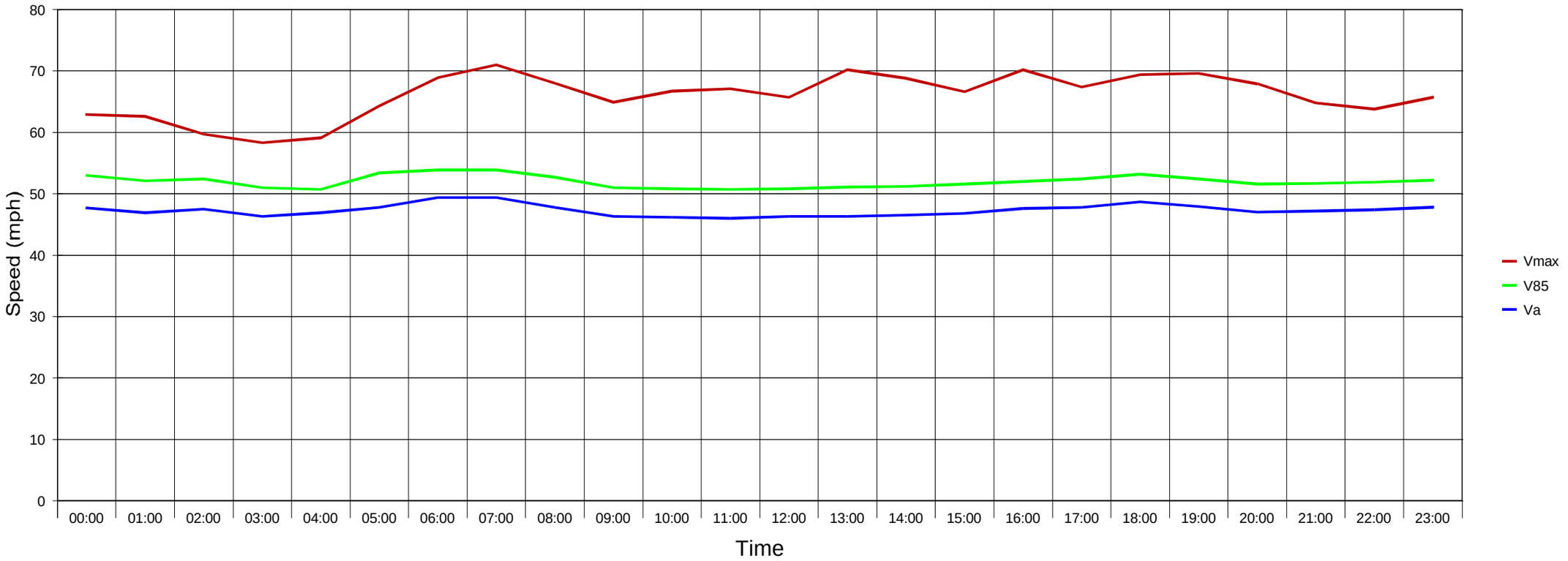
AUTOMATIC TRAFFIC RECORDER (ATR) DATA

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Quality Counts L.L.C.
621 Carlisle Dr, Herndon VA 20170
954-944-2363

Maple Road, EB, 950 ft east of Donna Lea Blvd.; Lat.: 42°59'28.81"N; Long.,78°46'24.73"W, "+" = EB



Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

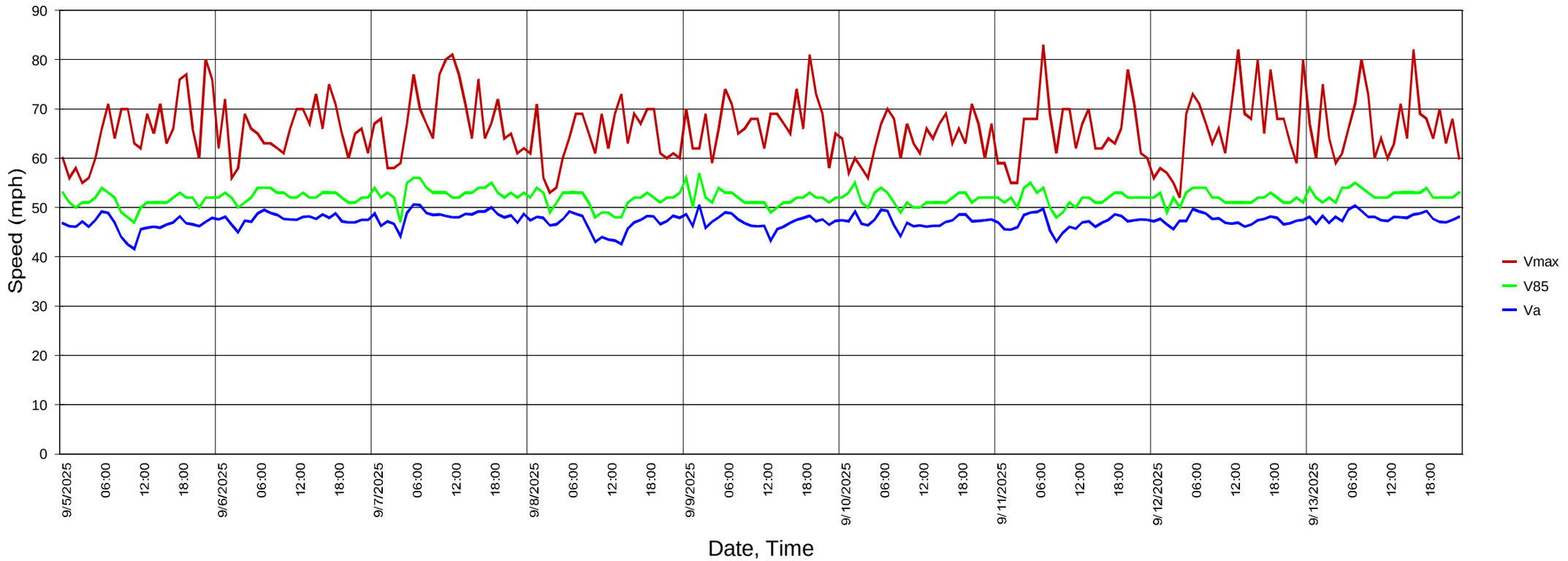
Speed violations:	64	%
Average time interval:	4.3	sec.
Traffic in column:	95	%
ADT:	10953	
Truck Share:	3	%

	Count	%	V15	Va	V85	Vmax
Motorcycle/sm	2422	2.5	41	46	52	75
Car	93229	94.6	42	47	52	83
Truck	2513	2.5	41	45	50	64
Tractor-Trailer	403	0.4	39	43	48	56
Total	98567	100	42	47	52	83

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

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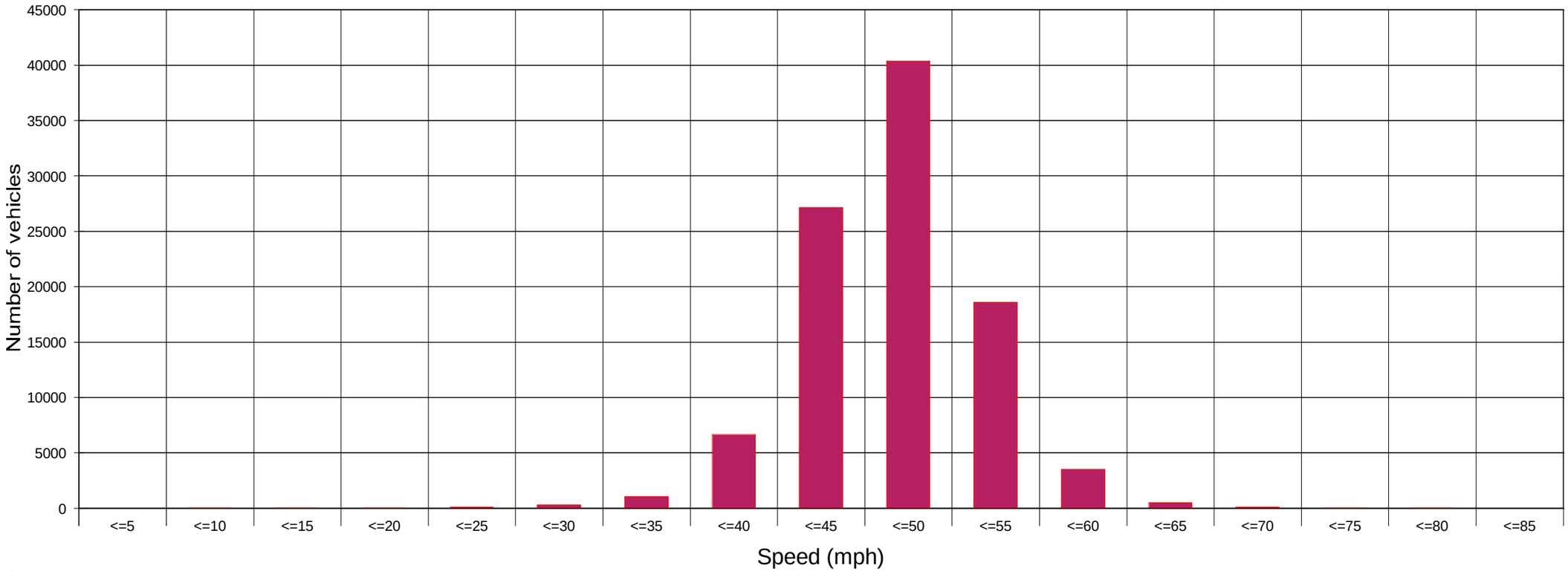
Speed violations:	64	%
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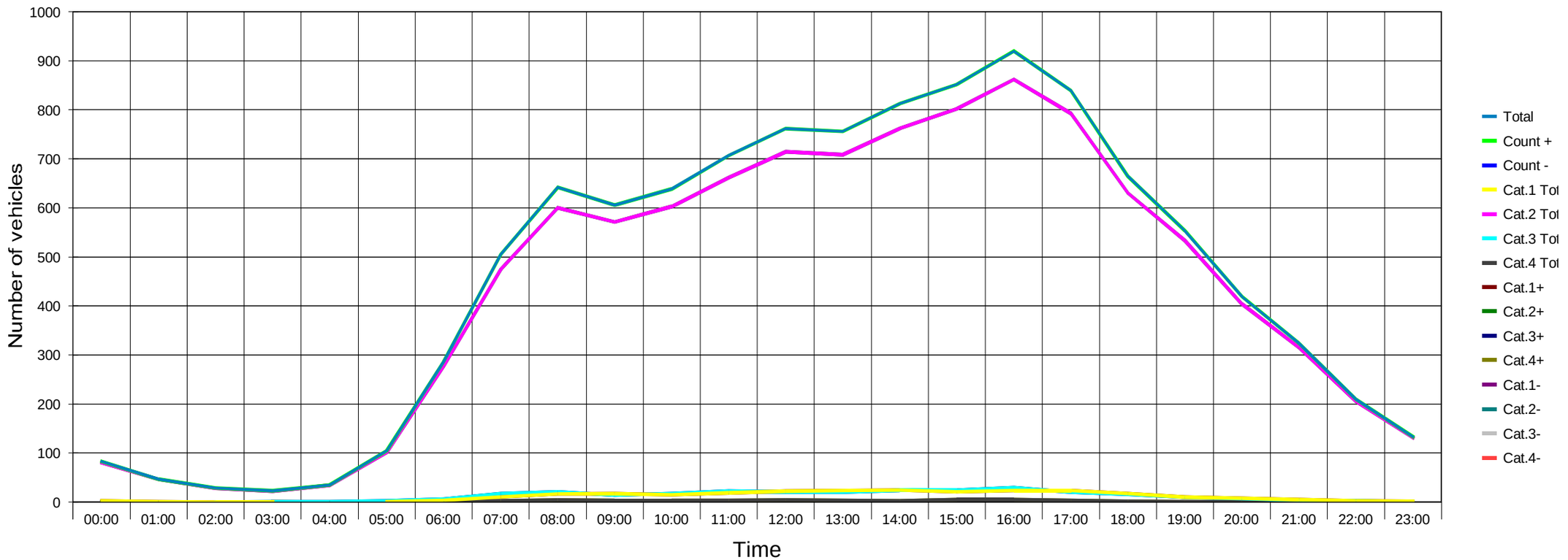
Speed violations:	64	%
Average time interval:	4.3	sec.
Traffic in column:	95	%
ADT:	10953	
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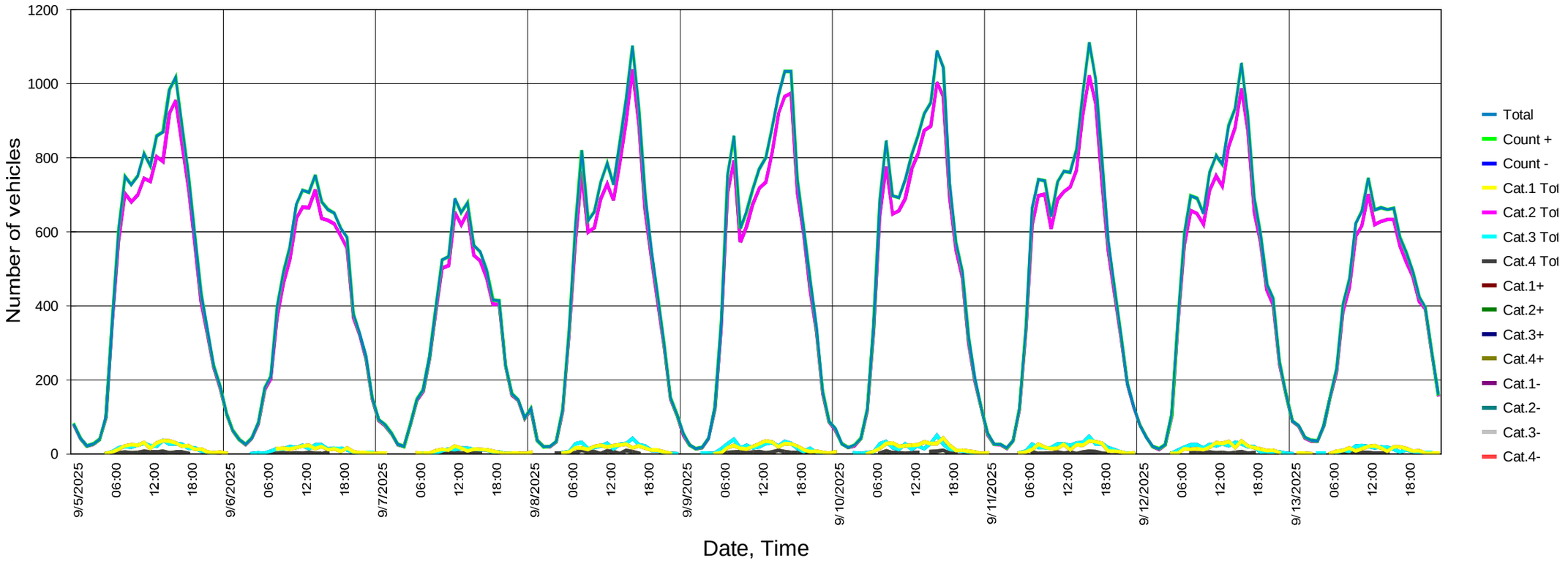
Speed violations:	64	%
Average time interval:	4.3	sec.
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ADT:	10953	
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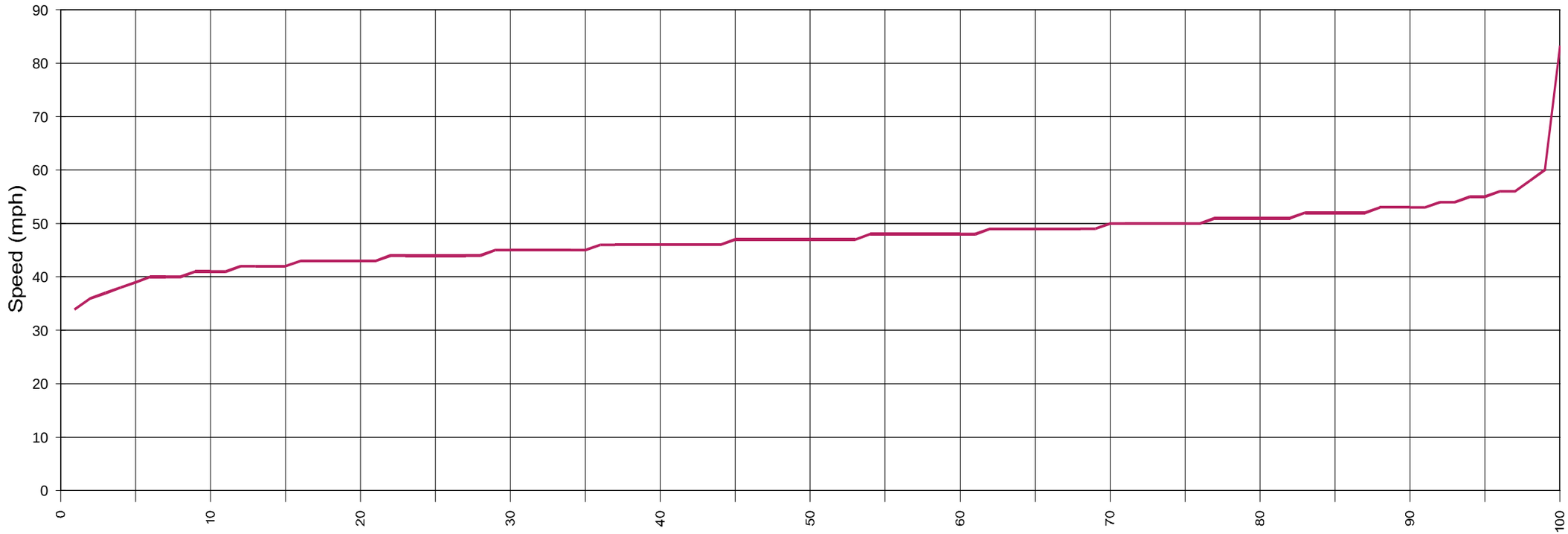
Speed violations:	64	%
Average time interval:	4.3	sec.
Traffic in column:	95	%
ADT:	10953	
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954-944-2363

Maple Road, EB, 950 ft east of Donna Lea Blvd.; Lat.: 42°59'28.81"N; Long.,78°46'24.73"W, "+" = EB



Vx (%) Comment: x % of vehicles are driving at or below y mph

Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

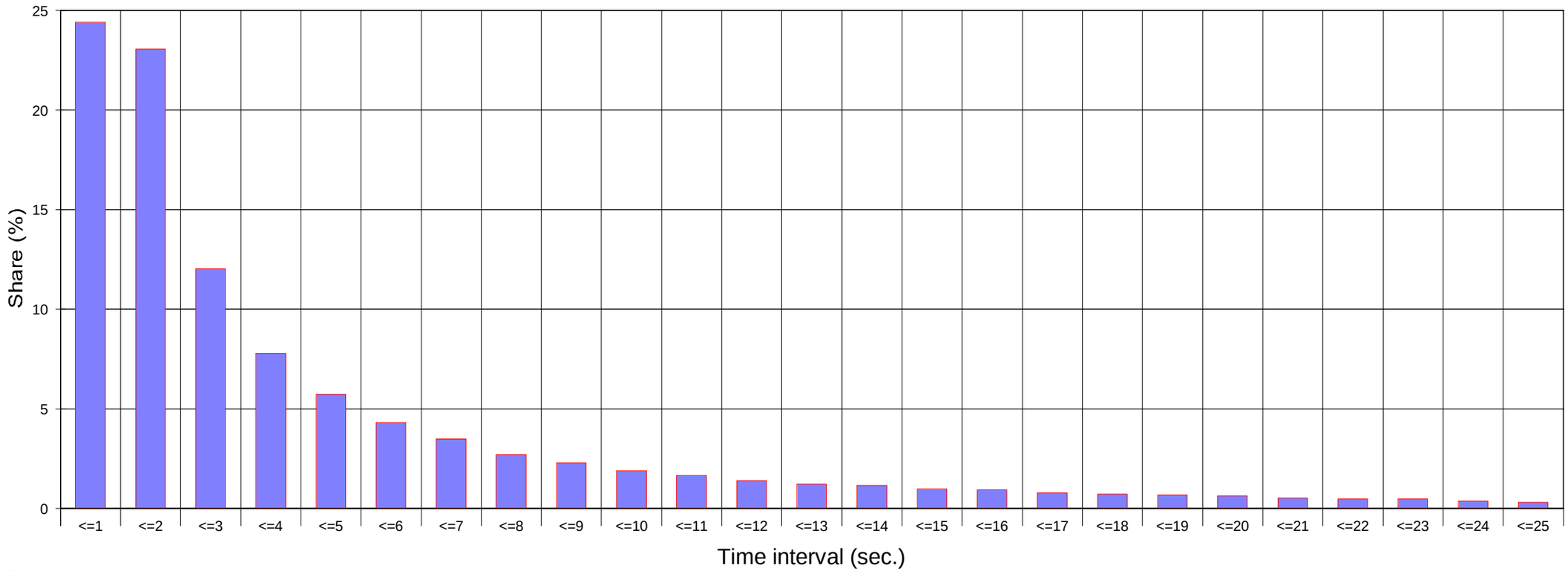
Speed violations:	64	%
Average time interval:	4.3	sec.
Traffic in column:	95	%
ADT:	10953	
Truck Share:	3	%

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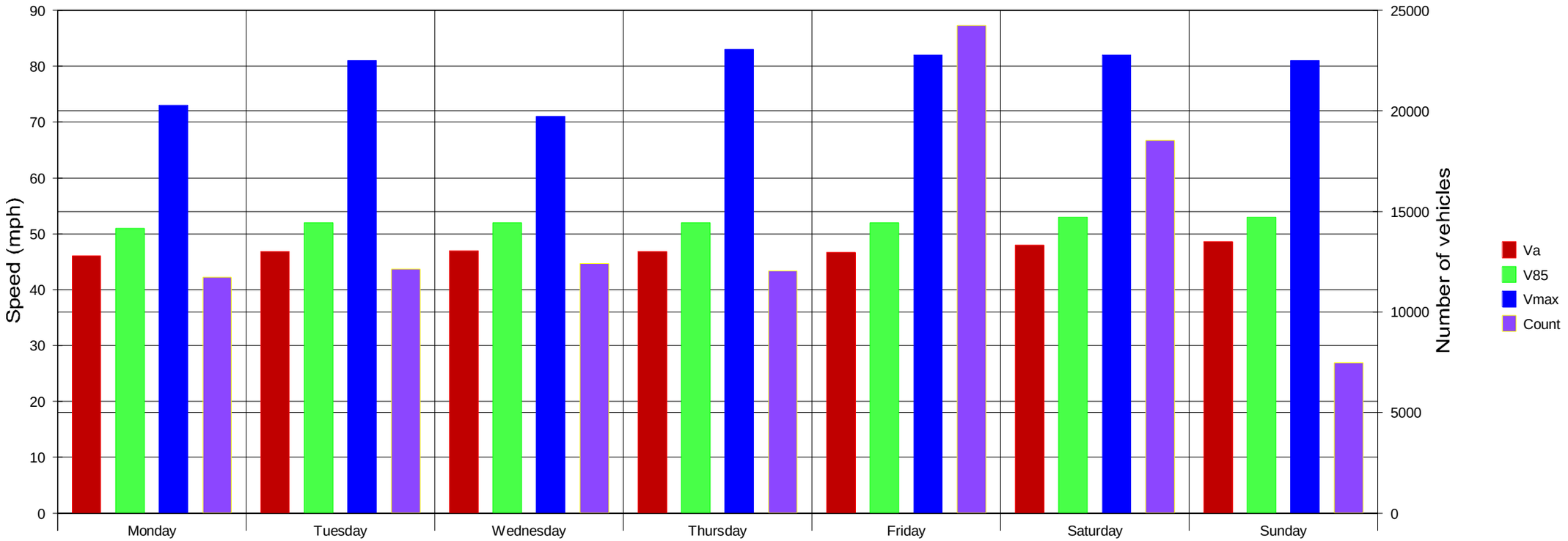
Speed violations:	64 %
Average time interval:	4.3 sec.
Traffic in column:	95 %
ADT:	10953
Truck Share:	3 %

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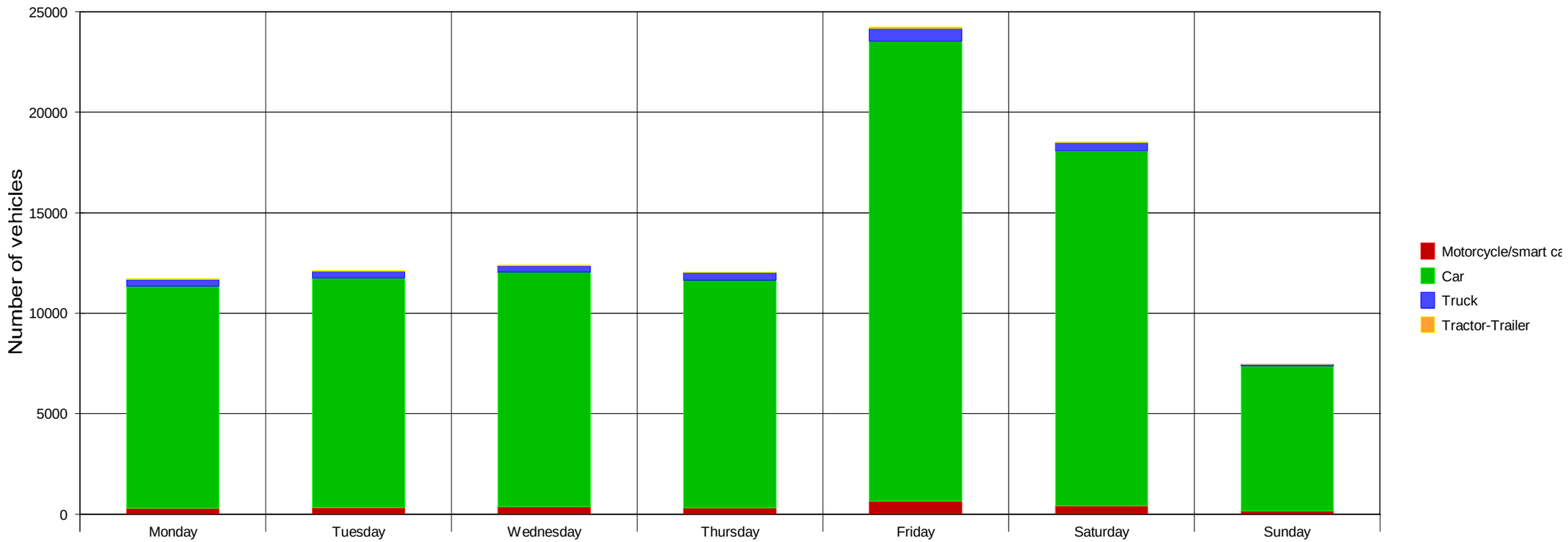
Speed violations:	64	%
Average time interval:	4.3	sec.
Traffic in column:	95	%
ADT:	10953	
Truck Share:	3	%

	Count	%	V15	Va	V85	Vmax
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Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Speed violations:	64 %
Average time interval:	4.3 sec.
Traffic in column:	95 %
ADT:	10953
Truck Share:	3 %

	Count	%	V15	Va	V85	Vmax
Motorcycle/sm	2422	2.5	41	46	52	75
Car	93229	94.6	42	47	52	83
Truck	2513	2.5	41	45	50	64
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Total	98567	100	42	47	52	83

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

		Car					Truck					Tractor-Trailer					Truck + Tractor-Trailer					Total:				
	Evaluation:	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph
Direction +	Day:	56667	93.8	47	52	83	1797	3	45	50	64	308	0.5	43	48	56	2105	3.5	45	50	64	**60437**	61.3	47	51	83
	Evening:	7912	96.2	47	52	81	146	1.8	46	51	58	12	0.1	46	49	54	158	1.9	46	51	58	**8228**	8.3	47	52	81
	Night:	3686	97.2	48	52	80	43	1.1	46	50	60	9	0.2	42	47	48	52	1.4	46	49	60	**3791**	3.8	47	52	80
	16 Hours:	64630	94	47	52	83	1943	2.8	45	50	64	320	0.5	43	48	56	2263	3.3	45	50	64	**68719**	69.7	47	52	83
	Weekday traffic:	68354	94.2	47	52	83	1986	2.7	45	50	64	329	0.5	43	48	56	2315	3.2	45	50	64	**72548**	73.6	47	52	83
	Weekend traffic:	24875	95.6	48	53	82	527	2	47	51	60	74	0.3	45	48	55	601	2.3	47	51	60	**26019**	26.4	48	53	82
	Total traffic:	93229	94.6	47	52	83	2513	2.5	45	50	64	403	0.4	43	48	56	2916	3	45	50	64	**98567**	100	47	52	83
Direction -	Day:	0	0				0	0				0	0				0	0				**0**	0			
	Evening:	0	0				0	0				0	0				0	0				**0**	0			
	Night:	0	0				0	0				0	0				0	0				**0**	0			
	16 Hours:	0	0				0	0				0	0				0	0				**0**	0			
	Weekday traffic:	0	0				0	0				0	0				0	0				**0**	0			
	Weekend traffic:	0	0				0	0				0	0				0	0				**0**	0			
	Total traffic:	0	0				0	0				0	0				0	0				**0**	0			
Total	Day:	56667	93.8	47	52	83	1797	3	45	50	64	308	0.5	43	48	56	2105	3.5	45	50	64	**60437**	61.3	47	51	83
	Evening:	7912	96.2	47	52	81	146	1.8	46	51	58	12	0.1	46	49	54	158	1.9	46	51	58	**8228**	8.3	47	52	81
	Night:	3686	97.2	48	52	80	43	1.1	46	50	60	9	0.2	42	47	48	52	1.4	46	49	60	**3791**	3.8	47	52	80
	16 Hours:	64630	94	47	52	83	1943	2.8	45	50	64	320	0.5	43	48	56	2263	3.3	45	50	64	**68719**	69.7	47	52	83
	Weekday traffic:	68354	94.2	47	52	83	1986	2.7	45	50	64	329	0.5	43	48	56	2315	3.2	45	50	64	**72548**	73.6	47	52	83
	Weekend traffic:	24875	95.6	48	53	82	527	2	47	51	60	74	0.3	45	48	55	601	2.3	47	51	60	**26019**	26.4	48	53	82
	Total traffic:	**93229**	**94.6**	**47**	**52**	**83**	**2513**	**2.5**	**45**	**50**	**64**	**403**	**0.4**	**43**	**48**	**56**	**2916**	**3**	**45**	**50**	**64**	98567	**100**	**47**	**52**	**83**

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Evaluation:				Average Traffic									
	From - To	Days	Dir.	Day:		Evening:		Night:		16 Hours:		ADT	
From - To				06:00 - 18:59		19:00 - 21:59		22:00 - 05:59		06:00 - 21:59		00:00 - 23:59	
Days				9		9		8.998		9		8.999	
				AT [veh./h]	AT [veh./13h]	AT [veh./h]	AT [veh./3h]	AT [veh./h]	AT [veh./8h]	AT [veh./h]	AT [veh./16h]	AT [veh./h]	ADT [veh./24h]
Weekday traffic:	Mon - Fri	6	+	776	10073	460	1371	79	632	717	11453	504	12091
			-	0	0	0	0	0	0	0	0	0	0
			T	776	10073	460	1371	79	632	717	11453	504	12091
Weekend traffic:	Sat - Sun	2.999	+	524	6798	380	1135	91	726	497	7943	361	8675
			-	0	0	0	0	0	0	0	0	0	0
			T	524	6798	380	1135	91	726	497	7943	361	8675
Total traffic:		8.999	+	692	8981	433	1292	83	663	643	10283	456	10953
			-	0	0	0	0	0	0	0	0	0	0
			T	692	8981	433	1292	83	663	643	10283	456	10953

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

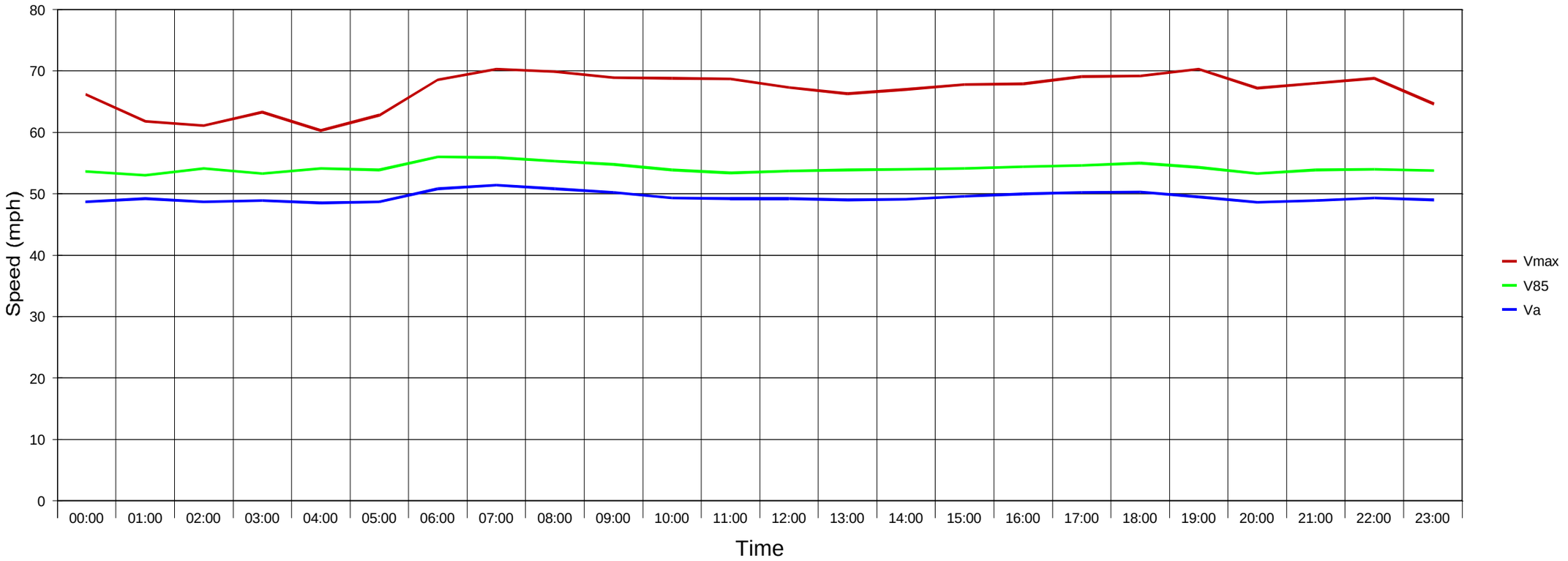
Evaluation:				Peak hours				K - Factors		
	From - To	Days	Dir.	From mean values		Absolute		K6	K16	K200
From - To								06:00 - 08:59	06:00 - 21:59	Peak hour
				Time	[veh./h]	Date, time	[veh./h]	15:00 - 17:59		
Weekday traffic:	Mon - Fri	6	+	16:15	1082	9/11/2025, 16:30	1136	0.394	0.947	0.089
			-	00:00	0	0	0	0	0	0
			T	16:15	1082	9/11/2025, 16:30	1136	0.394	0.947	0.089
Weekend traffic:	Sat - Sun	2.999	+	12:15	748	9/6/2025, 12:15	761	0.292	0.915	0.086
			-	00:00	0	0	0	0	0	0
			T	12:15	748	9/6/2025, 12:15	761	0.292	0.915	0.086
Total traffic:		8.999	+	16:15	927	9/11/2025, 16:30	1136	0.367	0.939	0.085
			-	00:00	0	0	0	0	0	0
			T	16:15	927	9/11/2025, 16:30	1136	0.367	0.939	0.085

Legend to K-factors:
K(I) -factor: vehicles in period1+2 / ADT
K(J) -factor: vehicles in 16 hrs. period /ADT
K(200)-factor: vehicles in peak hour /ADT

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Quality Counts L.L.C.
621 Carlisle Dr, Herndon VA 20170
954-944-2363

Maple Road, WB, 760 ft. west of Sandhurst Ln; Lat = 42°59'29.66"N; Long = 78°46'15.60"W ; "+" = WB



Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

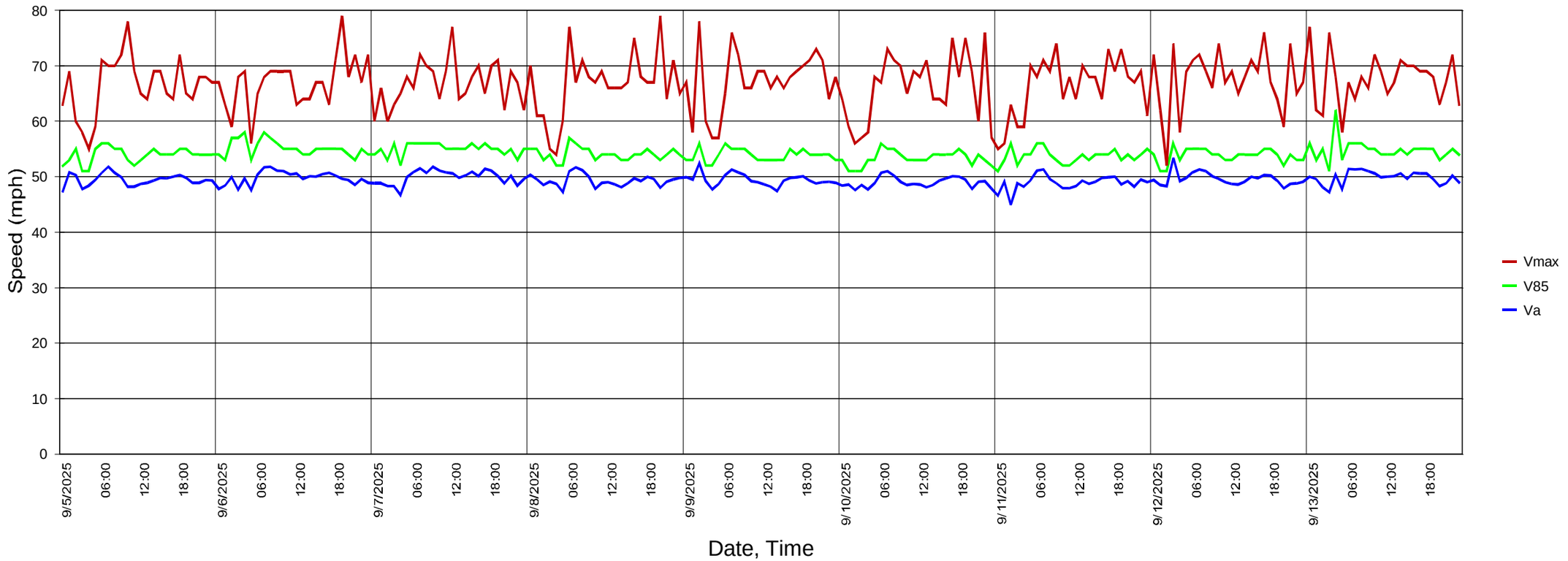
Speed violations:	82	%
Average time interval:	4.2	sec.
Traffic in column:	93	%
ADT:	9737	
Truck Share:	3	%

	Count	%	V15	Va	V85	Vmax
Motorcycle	2207	2.5	43	49	55	77
Car	82828	94.5	45	50	54	79
Truck	1774	2	46	50	53	70
Tractor-Trailer	813	0.9	45	49	53	62
Total	87622	100	45	50	54	79

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

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Statistics

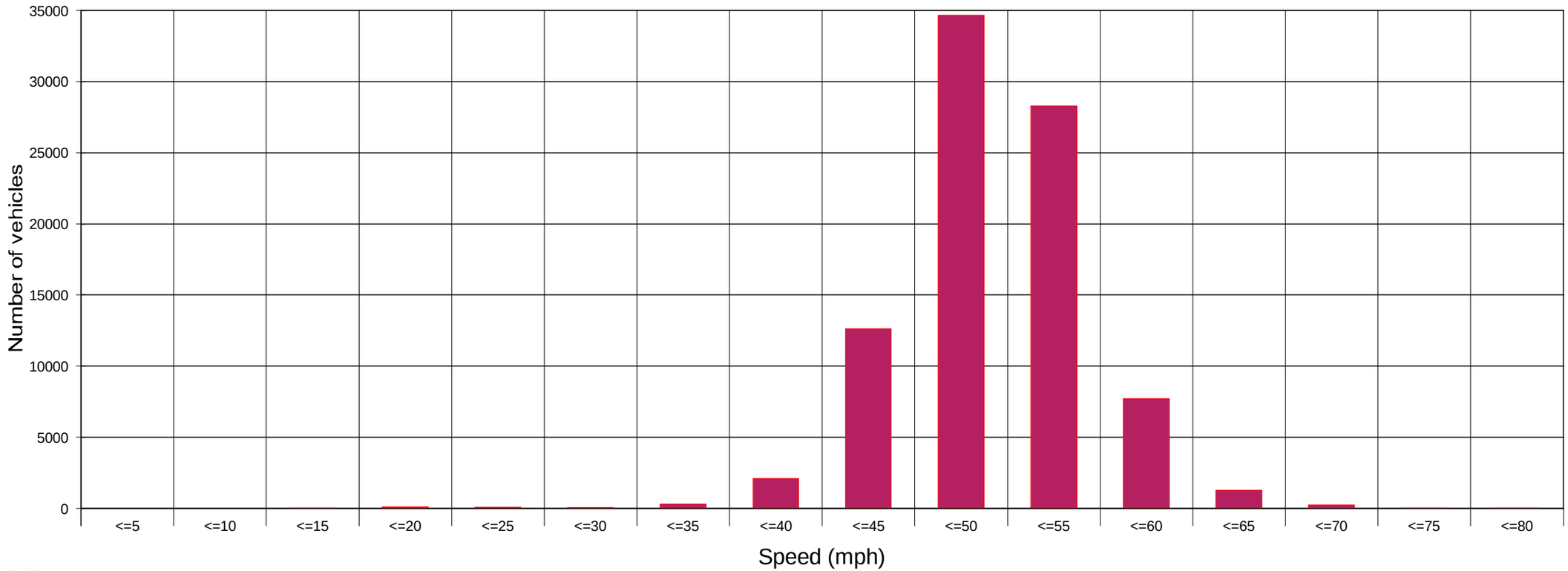
Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

			Count	%	V15	Va	V85	Vmax
Speed violations:	82	%	Motorcycle	2207	2.5	43	49	55	77
Average time interval:	4.2	sec.	Car	82828	94.5	45	50	54	79
Traffic in column:	93	%	Truck	1774	2	46	50	53	70
ADT:	9737		Tractor-Trailer	813	0.9	45	49	53	62
Truck Share:	3	%	Total	87622	100	45	50	54	79

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Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

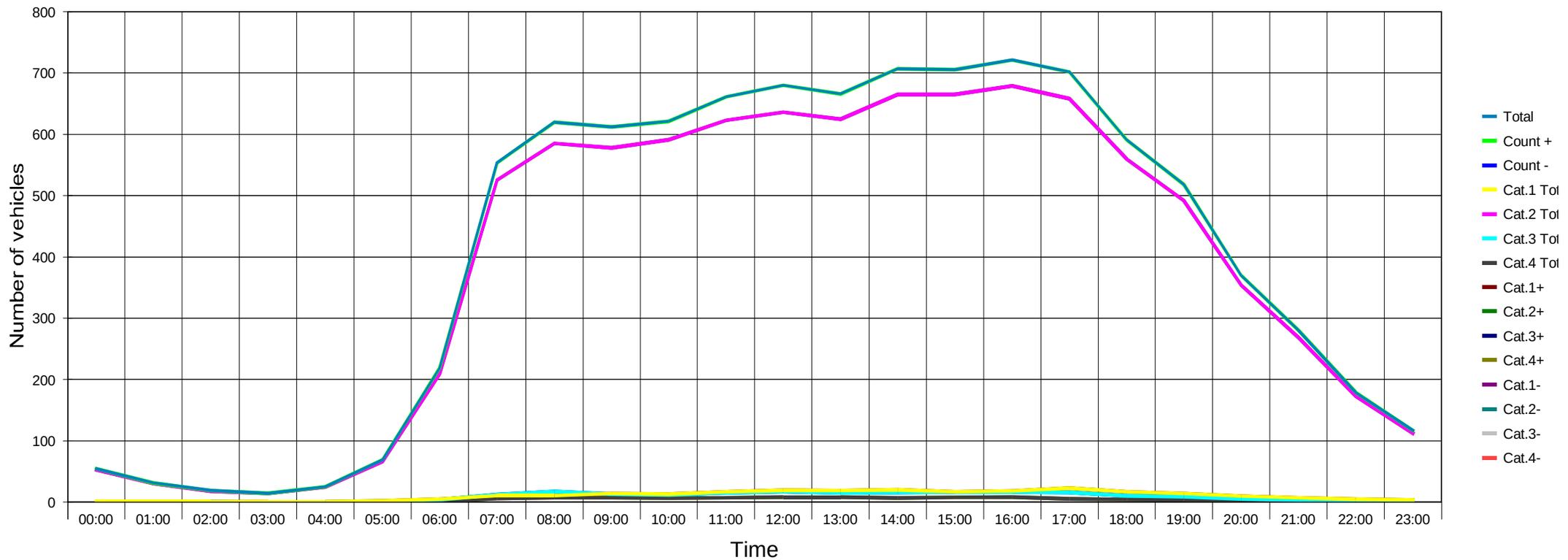
Speed violations:	82 %
Average time interval:	4.2 sec.
Traffic in column:	93 %
ADT:	9737
Truck Share:	3 %

	Count	%	V15	Va	V85	Vmax
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Car	82828	94.5	45	50	54	79
Truck	1774	2	46	50	53	70
Tractor-Trailer	813	0.9	45	49	53	62
Total	87622	100	45	50	54	79

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Maple Road, WB, 760 ft. west of Sandhurst Ln; Lat = 42°59'29.66"N; Long = 78°46'15.60"W ; "+" = WB



Statistics

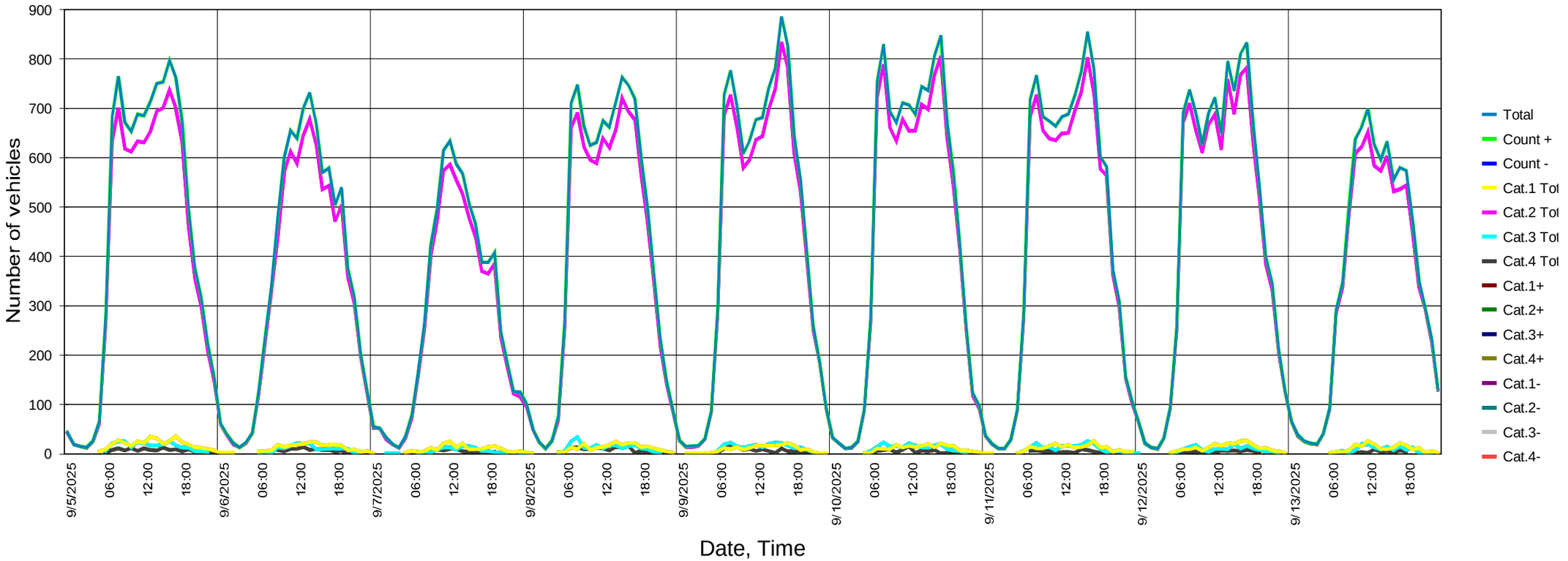
Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

			Count	%	V15	Va	V85	Vmax
Speed violations:	82	%	Motorcycle	2207	2.5	43	49	55	77
Average time interval:	4.2	sec.	Car	82828	94.5	45	50	54	79
Traffic in column:	93	%	Truck	1774	2	46	50	53	70
ADT:	9737		Tractor-Trailer	813	0.9	45	49	53	62
Truck Share:	3	%	Total	87622	100	45	50	54	79

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Statistics

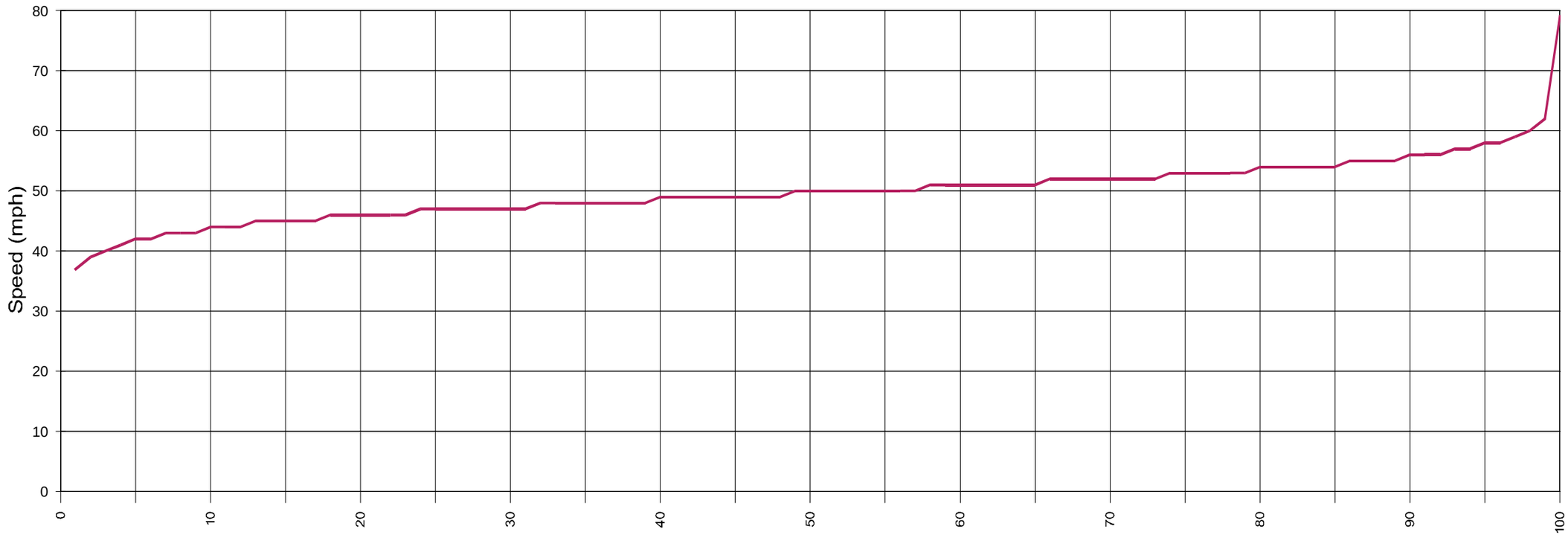
Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

			Count	%	V15	Va	V85	Vmax
Speed violations:	82	%	Motorcycle	2207	2.5	43	49	55	77
Average time interval:	4.2	sec.	Car	82828	94.5	45	50	54	79
Traffic in column:	93	%	Truck	1774	2	46	50	53	70
ADT:	9737		Tractor-Trailer	813	0.9	45	49	53	62
Truck Share:	3	%	Total	87622	100	45	50	54	79

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Vx (%) Comment: x % of vehicles are driving at or below y mph

Statistics

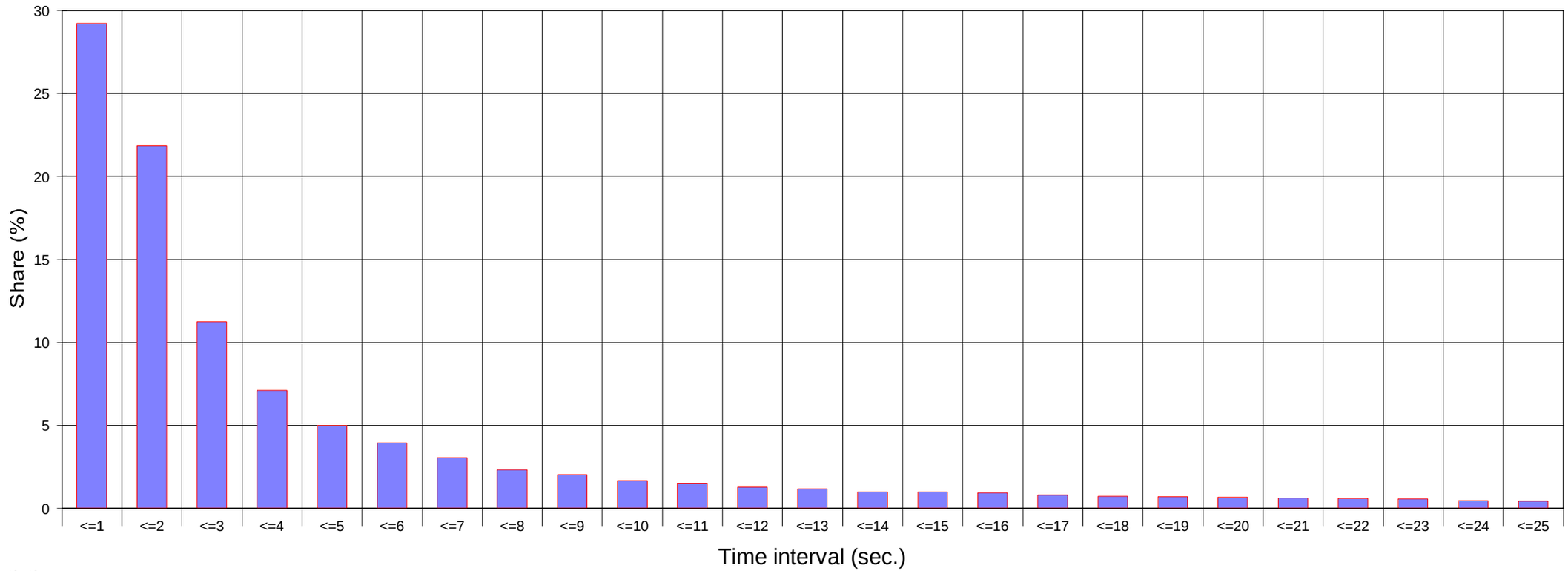
Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

			Count	%	V15	Va	V85	Vmax
Speed violations:	82	%	Motorcycle	2207	2.5	43	49	55	77
Average time interval:	4.2	sec.	Car	82828	94.5	45	50	54	79
Traffic in column:	93	%	Truck	1774	2	46	50	53	70
ADT:	9737		Tractor-Trailer	813	0.9	45	49	53	62
Truck Share:	3	%	Total	87622	100	45	50	54	79

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Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

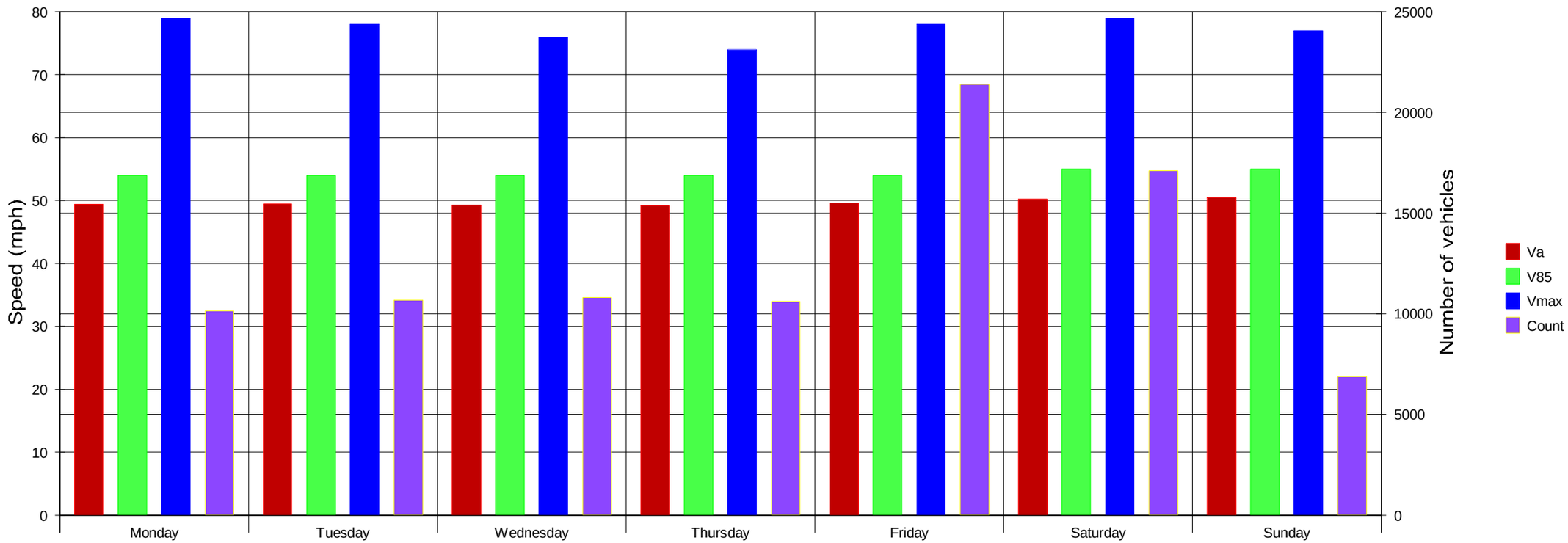
Speed violations:	82 %
Average time interval:	4.2 sec.
Traffic in column:	93 %
ADT:	9737
Truck Share:	3 %

	Count	%	V15	Va	V85	Vmax
Motorcycle	2207	2.5	43	49	55	77
Car	82828	94.5	45	50	54	79
Truck	1774	2	46	50	53	70
Tractor-Trailer	813	0.9	45	49	53	62
Total	87622	100	45	50	54	79

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Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

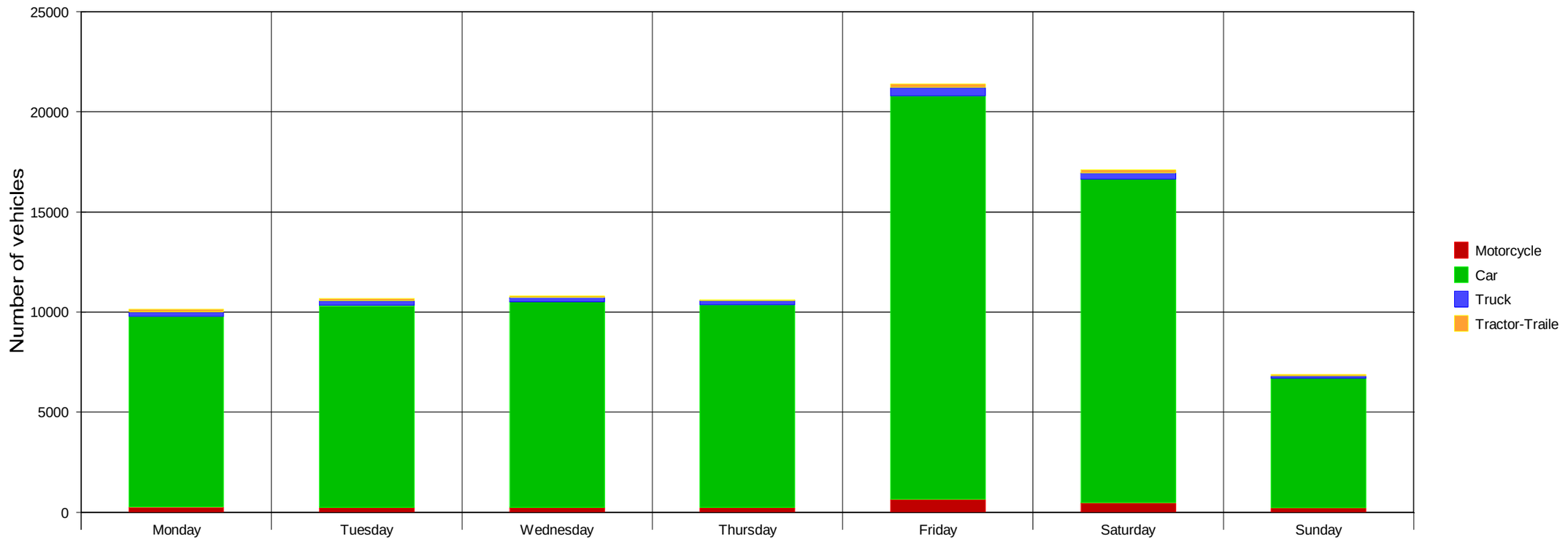
Speed violations:	82 %
Average time interval:	4.2 sec.
Traffic in column:	93 %
ADT:	9737
Truck Share:	3 %

	Count	%	V15	Va	V85	Vmax
Motorcycle	2207	2.5	43	49	55	77
Car	82828	94.5	45	50	54	79
Truck	1774	2	46	50	53	70
Tractor-Trailer	813	0.9	45	49	53	62
Total	87622	100	45	50	54	79

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

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954-944-2363

Maple Road, WB, 760 ft. west of Sandhurst Ln; Lat = 42°59'29.66"N; Long = 78°46'15.60"W ; "+" = WB



Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Speed violations:	82 %
Average time interval:	4.2 sec.
Traffic in column:	93 %
ADT:	9737
Truck Share:	3 %

	Count	%	V15	Va	V85	Vmax
Motorcycle	2207	2.5	43	49	55	77
Car	82828	94.5	45	50	54	79
Truck	1774	2	46	50	53	70
Tractor-Trailer	813	0.9	45	49	53	62
Total	87622	100	45	50	54	79

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

		Car					Truck					Tractor-Trailer					Truck + Tractor-Trailer					Total:				
	Evaluation:	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph
Direction +	Day:	50255	94.3	50	54	78	1204	2.3	49	53	70	539	1	49	53	62	1743	3.3	49	53	70	**53282**	60.8	50	54	78
	Evening:	6964	95.4	49	54	79	105	1.4	49	53	62	45	0.6	49	52	58	150	2.1	49	53	62	**7300**	8.3	49	54	79
	Night:	2889	96.3	49	54	78	23	0.8	47	49	54	11	0.4	49	52	54	34	1.1	47	50	54	**3000**	3.4	49	54	78
	16 Hours:	57263	94.5	50	54	79	1309	2.2	49	53	70	584	1	49	53	62	1893	3.1	49	53	70	**60626**	69.2	49	54	79
	Weekday traffic:	60179	94.5	49	54	79	1332	2.1	49	53	70	595	0.9	49	53	62	1927	3	49	53	70	**63653**	72.6	49	54	79
	Weekend traffic:	22649	94.5	50	55	79	442	1.8	50	54	62	218	0.9	50	53	60	660	2.8	50	54	62	**23969**	27.4	50	55	79
	Total traffic:	82828	94.5	50	54	79	1774	2	50	53	70	813	0.9	49	53	62	2587	3	49	53	70	**87622**	100	50	54	79
Direction -	Day:	0	0				0	0				0	0				0	0				**0**	0			
	Evening:	0	0				0	0				0	0				0	0				**0**	0			
	Night:	0	0				0	0				0	0				0	0				**0**	0			
	16 Hours:	0	0				0	0				0	0				0	0				**0**	0			
	Weekday traffic:	0	0				0	0				0	0				0	0				**0**	0			
	Weekend traffic:	0	0				0	0				0	0				0	0				**0**	0			
	Total traffic:	0	0				0	0				0	0				0	0				**0**	0			
Total	Day:	50255	94.3	50	54	78	1204	2.3	49	53	70	539	1	49	53	62	1743	3.3	49	53	70	**53282**	60.8	50	54	78
	Evening:	6964	95.4	49	54	79	105	1.4	49	53	62	45	0.6	49	52	58	150	2.1	49	53	62	**7300**	8.3	49	54	79
	Night:	2889	96.3	49	54	78	23	0.8	47	49	54	11	0.4	49	52	54	34	1.1	47	50	54	**3000**	3.4	49	54	78
	16 Hours:	57263	94.5	50	54	79	1309	2.2	49	53	70	584	1	49	53	62	1893	3.1	49	53	70	**60626**	69.2	49	54	79
	Weekday traffic:	60179	94.5	49	54	79	1332	2.1	49	53	70	595	0.9	49	53	62	1927	3	49	53	70	**63653**	72.6	49	54	79
	Weekend traffic:	22649	94.5	50	55	79	442	1.8	50	54	62	218	0.9	50	53	60	660	2.8	50	54	62	**23969**	27.4	50	55	79
	Total traffic:	**82828**	**94.5**	**50**	**54**	**79**	**1774**	**2**	**50**	**53**	**70**	**813**	**0.9**	**49**	**53**	**62**	**2587**	**3**	**49**	**53**	**70**	**87622**	**100**	**50**	**54**	**79**

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

SIERZEGA

Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Evaluation:				Average Traffic									
	From - To	Days	Dir.	Day:		Evening:		Night:		16 Hours:		ADT	
From - To				06:00 - 18:59		19:00 - 21:59		22:00 - 05:59		06:00 - 21:59		00:00 - 23:59	
Days				9		9		8.998		9		8.999	
				AT [veh./h]	AT [veh./13h]	AT [veh./h]	AT [veh./3h]	AT [veh./h]	AT [veh./8h]	AT [veh./h]	AT [veh./16h]	AT [veh./h]	ADT [veh./24h]
Weekday traffic:	Mon - Fri	6	+	684	8880	408	1217	63	500	632	10104	442	10609
			-	0	0	0	0	0	0	0	0	0	0
			T	684	8880	408	1217	63	500	632	10104	442	10609
Weekend traffic:	Sat - Sun	2.999	+	493	6396	355	1059	66	523	467	7461	333	7992
			-	0	0	0	0	0	0	0	0	0	0
			T	493	6396	355	1059	66	523	467	7461	333	7992
Total traffic:		8.999	+	620	8052	390	1164	64	508	577	9223	406	9737
			-	0	0	0	0	0	0	0	0	0	0
			T	620	8052	390	1164	64	508	577	9223	406	9737

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Evaluation:				Peak hours				K - Factors		
	From - To	Days	Dir.	From mean values		Absolute		K6	K16	K200
From - To								06:00 - 08:59	06:00 - 21:59	Peak hour
				Time	[veh./h]	Date, time	[veh./h]	15:00 - 17:59		
Weekday traffic:	Mon - Fri	6	+	16:30	817	9/9/2025, 16:15	902	0.388	0.952	0.077
			-	00:00	0	0	0	0	0	0
			T	16:30	817	9/9/2025, 16:15	902	0.388	0.952	0.077
Weekend traffic:	Sat - Sun	2.999	+	12:30	667	9/6/2025, 13:30	735	0.286	0.934	0.083
			-	00:00	0	0	0	0	0	0
			T	12:30	667	9/6/2025, 13:30	735	0.286	0.934	0.083
Total traffic:		8.999	+	14:30	725	9/9/2025, 16:15	902	0.36	0.947	0.074
			-	00:00	0	0	0	0	0	0
			T	14:30	725	9/9/2025, 16:15	902	0.36	0.947	0.074

Legend to K-factors:
K(I) -factor: vehicles in period1+2 / ADT
K(J) -factor: vehicles in 16 hrs. period /ADT
K(200)-factor: vehicles in peak hour /ADT

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT D

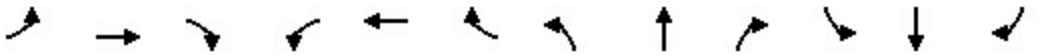
SYNCHRO LEVEL OF SERVICE REPORTS

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
Existing_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	49	606	300	156	799	55	183	82	22	143	214	127
Future Volume (veh/h)	49	606	300	156	799	55	183	82	22	143	214	127
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	0.99		0.98	0.98		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1961	1885	1885	1870	1945	1604	1900	1900	1868	1856
Adj Flow Rate, veh/h	50	618	306	159	815	56	187	84	22	146	218	130
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	1	1	1	2	2	20	0	0	7	3
Cap, veh/h	291	1411	645	362	1468	101	286	308	81	472	247	147
Arrive On Green	0.03	0.39	0.39	0.07	0.43	0.43	0.10	0.25	0.25	0.08	0.23	0.23
Sat Flow, veh/h	1810	3610	1649	1795	3399	234	1853	1219	319	1810	1086	648
Grp Volume(v), veh/h	50	618	306	159	429	442	187	0	106	146	0	348
Grp Sat Flow(s),veh/h/ln	1810	1805	1649	1795	1791	1842	1853	0	1538	1810	0	1734
Q Serve(g_s), s	1.6	12.4	13.7	5.0	17.7	17.7	7.5	0.0	5.5	6.0	0.0	19.2
Cycle Q Clear(g_c), s	1.6	12.4	13.7	5.0	17.7	17.7	7.5	0.0	5.5	6.0	0.0	19.2
Prop In Lane	1.00		1.00	1.00		0.13	1.00		0.21	1.00		0.37
Lane Grp Cap(c), veh/h	291	1411	645	362	774	796	286	0	389	472	0	394
V/C Ratio(X)	0.17	0.44	0.47	0.44	0.56	0.56	0.65	0.00	0.27	0.31	0.00	0.88
Avail Cap(c_a), veh/h	438	1411	645	435	774	796	296	0	611	528	0	688
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	18.0	22.1	22.5	15.9	21.0	21.0	27.4	0.0	29.6	25.8	0.0	36.9
Incr Delay (d2), s/veh	0.3	1.0	2.5	0.8	2.9	2.8	4.9	0.0	0.4	0.4	0.0	6.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	5.1	5.6	1.9	7.4	7.6	3.6	0.0	2.0	2.6	0.0	8.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	18.3	23.1	25.0	16.8	23.8	23.7	32.3	0.0	30.0	26.1	0.0	43.8
LnGrp LOS	B	C	C	B	C	C	C		C	C		D
Approach Vol, veh/h		974			1030			293			494	
Approach Delay, s/veh		23.4			22.7			31.4			38.6	
Approach LOS		C			C			C			D	

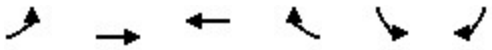
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	45.0	14.5	28.2	7.0	49.0	12.0	30.7
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	7.0	0.0	9.5	21.2	3.6	0.0	8.0	7.5
Green Ext Time (p_c), s	0.2	0.0	0.0	1.3	0.0	0.0	0.1	0.4

Intersection Summary	
HCM 7th Control Delay, s/veh	26.7
HCM 7th LOS	C

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
Existing_PM



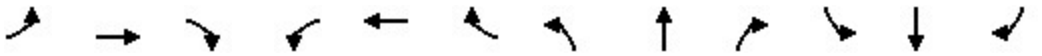
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	5	766	873	246	23	137
Future Volume (veh/h)	5	766	873	246	23	137
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1976	1900	1885	1961	1976	1961
Adj Flow Rate, veh/h	5	798	909	256	24	143
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	1	1	0	1
Cap, veh/h	411	2586	2566	1176	220	194
Arrive On Green	0.72	0.72	0.72	0.72	0.12	0.12
Sat Flow, veh/h	508	3705	3676	1642	1882	1662
Grp Volume(v), veh/h	5	798	909	256	24	143
Grp Sat Flow(s),veh/h/ln	508	1805	1791	1642	1882	1662
Q Serve(g_s), s	0.3	6.0	7.2	3.9	0.9	6.2
Cycle Q Clear(g_c), s	7.5	6.0	7.2	3.9	0.9	6.2
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	411	2586	2566	1176	220	194
V/C Ratio(X)	0.01	0.31	0.35	0.22	0.11	0.74
Avail Cap(c_a), veh/h	411	2586	2566	1176	472	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.91	0.91	0.85	0.85	1.00	1.00
Uniform Delay (d), s/veh	5.5	3.9	4.0	3.6	29.6	32.0
Incr Delay (d2), s/veh	0.0	0.3	0.3	0.4	0.3	7.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.3	1.5	0.8	0.4	2.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.5	4.2	4.4	3.9	29.9	39.5
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		803	1165		167	
Approach Delay, s/veh		4.2	4.3		38.1	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	60.0				60.0	15.0
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	8.2
Green Ext Time (p_c), s	0.0				0.0	0.8

Intersection Summary	
HCM 7th Control Delay, s/veh	6.9
HCM 7th LOS	A

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Existing_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	69	720	0	0	1067	28	52	0	568	0	0	0
Future Volume (veh/h)	69	720	0	0	1067	28	52	0	568	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1900	0	0	1885	1796	1870	1976	1900			
Adj Flow Rate, veh/h	72	750	0	0	1111	29	54	0	592			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	0	0	0	0	1	7	2	0	0			
Cap, veh/h	231	2014	0	0	1988	52	652	0	613			
Arrive On Green	0.56	0.56	0.00	0.00	0.56	0.56	0.37	0.00	0.37			
Sat Flow, veh/h	521	3705	0	0	3659	93	1781	0	1675			
Grp Volume(v), veh/h	72	750	0	0	558	582	54	0	592			
Grp Sat Flow(s),veh/h/ln	521	1805	0	0	1791	1867	1781	0	1675			
Q Serve(g_s), s	16.5	18.6	0.0	0.0	32.0	32.0	3.2	0.0	55.5			
Cycle Q Clear(g_c), s	48.5	18.6	0.0	0.0	32.0	32.0	3.2	0.0	55.5			
Prop In Lane	1.00		0.00	0.00		0.05	1.00		1.00			
Lane Grp Cap(c), veh/h	231	2014	0	0	999	1041	652	0	613			
V/C Ratio(X)	0.31	0.37	0.00	0.00	0.56	0.56	0.08	0.00	0.97			
Avail Cap(c_a), veh/h	231	2014	0	0	999	1041	710	0	668			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.96	0.96	0.00	0.00	0.83	0.83	1.00	0.00	1.00			
Uniform Delay (d), s/veh	38.3	19.7	0.0	0.0	22.7	22.7	33.2	0.0	49.7			
Incr Delay (d2), s/veh	3.3	0.5	0.0	0.0	1.9	1.8	0.0	0.0	25.0			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	2.3	7.8	0.0	0.0	13.6	14.1	1.4	0.0	27.4			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	41.6	20.3	0.0	0.0	24.6	24.5	33.2	0.0	74.8			
LnGrp LOS	D	C			C	C	C		E			
Approach Vol, veh/h		822			1140			646				
Approach Delay, s/veh		22.1			24.6			71.3				
Approach LOS		C			C			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	95.2	64.8	95.2
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	84.0	* 64	84.0
Max Q Clear Time (g_c+I1), s	50.5	57.5	0.0
Green Ext Time (p_c), s	0.1	1.1	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	35.4
HCM 7th LOS	D

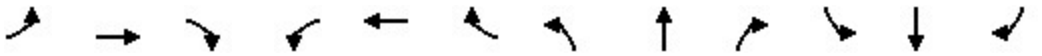
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
Existing_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	25	1241	22	15	1028	45	19	13	13	113	14	48
Future Volume (veh/h)	25	1241	22	15	1028	45	19	13	13	113	14	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1900	1900	1976	1885	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	26	1293	23	16	1071	47	20	14	14	118	15	50
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	1	0	0	0	0	0	0	0
Cap, veh/h	424	2275	40	337	2111	93	135	91	61	349	48	158
Arrive On Green	0.05	0.63	0.63	0.02	0.60	0.60	0.12	0.12	0.12	0.00	0.12	0.12
Sat Flow, veh/h	1882	3629	65	1882	3495	153	469	733	495	1810	384	1281
Grp Volume(v), veh/h	26	643	673	16	549	569	48	0	0	118	0	65
Grp Sat Flow(s),veh/h/ln	1882	1805	1888	1882	1791	1858	1697	0	0	1810	0	1666
Q Serve(g_s), s	0.3	13.7	13.7	0.2	11.6	11.6	0.0	0.0	0.0	0.1	0.0	2.4
Cycle Q Clear(g_c), s	0.3	13.7	13.7	0.2	11.6	11.6	1.5	0.0	0.0	0.1	0.0	2.4
Prop In Lane	1.00		0.03	1.00		0.08	0.42		0.29	1.00		0.77
Lane Grp Cap(c), veh/h	424	1131	1184	337	1082	1122	287	0	0	349	0	206
V/C Ratio(X)	0.06	0.57	0.57	0.05	0.51	0.51	0.17	0.00	0.00	0.34	0.00	0.32
Avail Cap(c_a), veh/h	621	1131	1184	578	1082	1122	1064	0	0	619	0	1383
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.2	7.2	7.2	5.8	7.5	7.5	26.1	0.0	0.0	25.3	0.0	26.5
Incr Delay (d2), s/veh	0.1	2.1	2.0	0.1	1.7	1.6	0.3	0.0	0.0	0.6	0.0	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	4.0	4.1	0.1	3.5	3.6	0.7	0.0	0.0	1.6	0.0	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	5.2	9.2	9.2	5.9	9.2	9.1	26.4	0.0	0.0	25.9	0.0	27.3
LnGrp LOS	A	A	A	A	A	A	C			C		C
Approach Vol, veh/h		1342			1134			48			183	
Approach Delay, s/veh		9.1			9.1			26.4			26.4	
Approach LOS		A			A			C			C	

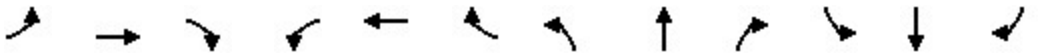
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.5	46.5		13.2	8.0	45.0	0.0	13.2				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	15.7		4.4	2.3	13.6	0.0	3.5				
Green Ext Time (p_c), s	0.0	5.5		0.2	0.0	4.5	0.0	0.1				

Intersection Summary			
HCM 7th Control Delay, s/veh		10.6	
HCM 7th LOS		B	

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
Existing_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	160	1066	135	189	883	168	109	371	232	187	310	96
Future Volume (veh/h)	160	1066	135	189	883	168	109	371	232	187	310	96
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1870	1900	1900	1885	1900	1885	1900	1900	1885	1885
Adj Flow Rate, veh/h	163	1088	138	193	901	171	111	379	237	191	316	98
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	2	0	0	1	0	1	0	0	1	1
Cap, veh/h	305	1367	596	275	1404	617	305	441	377	280	504	427
Arrive On Green	0.07	0.38	0.38	0.08	0.39	0.39	0.06	0.23	0.23	0.10	0.27	0.27
Sat Flow, veh/h	1810	3610	1575	1810	3610	1587	1810	1885	1610	1810	1885	1598
Grp Volume(v), veh/h	163	1088	138	193	901	171	111	379	237	191	316	98
Grp Sat Flow(s),veh/h/ln	1810	1805	1575	1810	1805	1587	1810	1885	1610	1810	1885	1598
Q Serve(g_s), s	5.5	27.3	6.1	6.5	20.7	7.5	4.7	19.6	13.4	7.9	15.0	4.9
Cycle Q Clear(g_c), s	5.5	27.3	6.1	6.5	20.7	7.5	4.7	19.6	13.4	7.9	15.0	4.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	305	1367	596	275	1404	617	305	441	377	280	504	427
V/C Ratio(X)	0.53	0.80	0.23	0.70	0.64	0.28	0.36	0.86	0.63	0.68	0.63	0.23
Avail Cap(c_a), veh/h	366	1367	596	318	1404	617	385	716	611	300	716	606
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.4	28.1	21.5	22.2	25.3	21.3	27.5	37.3	35.0	27.1	32.8	29.1
Incr Delay (d2), s/veh	1.5	4.9	0.9	5.7	2.3	1.1	0.7	6.0	1.7	5.7	1.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	11.8	2.3	2.9	8.7	2.9	2.0	9.5	5.3	3.7	6.9	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	20.9	33.0	22.4	27.9	27.6	22.4	28.2	43.3	36.7	32.8	34.1	29.3
LnGrp LOS	C	C	C	C	C	C	C	D	D	C	C	C
Approach Vol, veh/h		1389			1265			727			605	
Approach Delay, s/veh		30.5			26.9			38.9			32.9	
Approach LOS		C			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.6	45.0	10.5	33.6	11.6	46.0	13.9	30.2
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	8.5	0.0	6.7	17.0	7.5	0.0	9.9	21.6
Green Ext Time (p_c), s	0.1	0.0	0.1	1.4	0.1	0.0	0.1	2.2

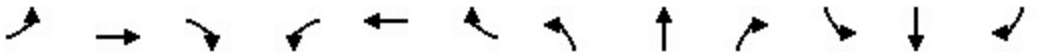
Intersection Summary	
HCM 7th Control Delay, s/veh	31.3
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — Existing_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	121	789	32	41	607	43	65	30	50	126	58	311
Future Volume (veh/h)	121	789	32	41	607	43	65	30	50	126	58	311
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.96	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1976	1870	1826	1900	1900	1900	1885	1976	1976
Adj Flow Rate, veh/h	127	831	34	43	639	45	68	32	53	133	61	327
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	1	0	0	2	5	0	0	0	1	0	0
Cap, veh/h	151	1899	78	57	1645	116	122	58	152	230	106	288
Arrive On Green	0.08	0.54	0.54	0.03	0.49	0.49	0.10	0.10	0.10	0.18	0.18	0.18
Sat Flow, veh/h	1810	3507	143	1882	3368	237	1250	588	1546	1310	601	1637
Grp Volume(v), veh/h	127	424	441	43	337	347	100	0	53	194	0	327
Grp Sat Flow(s),veh/h/ln	1810	1791	1859	1882	1777	1828	1838	0	1546	1911	0	1637
Q Serve(g_s), s	12.8	26.3	26.3	4.2	22.1	22.2	9.6	0.0	5.9	17.2	0.0	32.5
Cycle Q Clear(g_c), s	12.8	26.3	26.3	4.2	22.1	22.2	9.6	0.0	5.9	17.2	0.0	32.5
Prop In Lane	1.00		0.08	1.00		0.13	0.68		1.00	0.69		1.00
Lane Grp Cap(c), veh/h	151	970	1007	57	868	893	180	0	152	336	0	288
V/C Ratio(X)	0.84	0.44	0.44	0.76	0.39	0.39	0.56	0.00	0.35	0.58	0.00	1.14
Avail Cap(c_a), veh/h	423	970	1007	185	868	893	323	0	272	336	0	288
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	83.6	25.5	25.5	89.1	29.9	29.9	79.6	0.0	77.9	70.0	0.0	76.3
Incr Delay (d2), s/veh	16.2	1.4	1.4	18.6	1.3	1.3	3.8	0.0	2.0	2.5	0.0	95.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.6	11.5	11.9	2.3	9.8	10.1	4.8	0.0	2.5	8.7	0.0	21.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	99.8	26.9	26.9	107.6	31.2	31.1	83.4	0.0	79.9	72.4	0.0	171.4
LnGrp LOS	F	C	C	F	C	C	F		E	E		F
Approach Vol, veh/h		992			727			153			521	
Approach Delay, s/veh		36.2			35.7			82.2			134.6	
Approach LOS		D			D			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	22.2	97.2		25.6	12.4	107.0		40.0				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	14.8	0.0		11.6	6.2	0.0		34.5				
Green Ext Time (p_c), s	0.6	0.0		0.7	0.1	0.0		0.0				

Intersection Summary		
HCM 7th Control Delay, s/veh	60.4	
HCM 7th LOS	E	

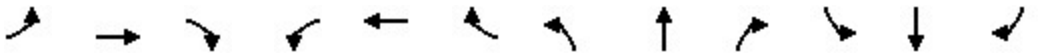
Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	552	190	125	663	18	144	22	24	25	33	42
Future Volume (veh/h)	22	552	190	125	663	18	144	22	24	25	33	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	0.98		0.98	0.97		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1885	1945	1885	1900	1900	1961	1693	1900	1841	1837	1870
Adj Flow Rate, veh/h	25	627	216	142	753	20	164	25	27	28	38	48
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	5	1	2	1	0	0	1	14	0	4	9	2
Cap, veh/h	375	1651	756	427	1806	48	371	156	168	291	92	116
Arrive On Green	0.02	0.46	0.46	0.06	0.50	0.50	0.10	0.21	0.21	0.02	0.13	0.13
Sat Flow, veh/h	1739	3582	1640	1795	3592	95	1867	736	795	1753	723	913
Grp Volume(v), veh/h	25	627	216	142	378	395	164	0	52	28	0	86
Grp Sat Flow(s),veh/h/ln	1739	1791	1640	1795	1805	1882	1867	0	1531	1753	0	1636
Q Serve(g_s), s	0.6	9.6	6.8	3.3	11.0	11.0	6.1	0.0	2.3	1.2	0.0	4.1
Cycle Q Clear(g_c), s	0.6	9.6	6.8	3.3	11.0	11.0	6.1	0.0	2.3	1.2	0.0	4.1
Prop In Lane	1.00		1.00	1.00		0.05	1.00		0.52	1.00		0.56
Lane Grp Cap(c), veh/h	375	1651	756	427	908	947	371	0	324	291	0	209
V/C Ratio(X)	0.07	0.38	0.29	0.33	0.42	0.42	0.44	0.00	0.16	0.10	0.00	0.41
Avail Cap(c_a), veh/h	567	1651	756	550	908	947	416	0	717	481	0	766
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	11.7	14.7	14.0	10.5	13.1	13.1	26.3	0.0	26.9	30.7	0.0	33.6
Incr Delay (d2), s/veh	0.1	0.7	1.0	0.5	1.4	1.4	0.8	0.0	0.2	0.1	0.0	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	3.6	0.2	1.1	4.2	4.3	2.7	0.0	0.9	0.5	0.0	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.8	15.4	15.0	10.9	14.5	14.4	27.1	0.0	27.1	30.9	0.0	34.9
LnGrp LOS	B	B	B	B	B	B	C		C	C		C
Approach Vol, veh/h		868			915			216			114	
Approach Delay, s/veh		15.2			13.9			27.1			33.9	
Approach LOS		B			B			C			C	

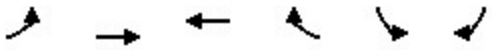
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.3	45.0	13.0	16.5	5.8	48.5	5.9	23.5
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	5.3	0.0	8.1	6.1	2.6	0.0	3.2	4.3
Green Ext Time (p_c), s	0.2	0.0	0.1	0.3	0.0	0.0	0.0	0.2

Intersection Summary	
HCM 7th Control Delay, s/veh	16.9
HCM 7th LOS	B

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
Existing_SAT



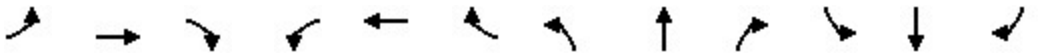
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	11	590	701	176	7	105
Future Volume (veh/h)	11	590	701	176	7	105
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1699	1885	1885	1961	1976	1976
Adj Flow Rate, veh/h	12	670	797	200	8	119
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	18	1	1	1	0	0
Cap, veh/h	435	2639	2639	1215	182	162
Arrive On Green	0.74	0.74	0.74	0.74	0.10	0.10
Sat Flow, veh/h	512	3676	3676	1649	1882	1675
Grp Volume(v), veh/h	12	670	797	200	8	119
Grp Sat Flow(s),veh/h/ln	512	1791	1791	1649	1882	1675
Q Serve(g_s), s	0.6	4.5	5.6	2.7	0.3	5.2
Cycle Q Clear(g_c), s	6.3	4.5	5.6	2.7	0.3	5.2
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	435	2639	2639	1215	182	162
V/C Ratio(X)	0.03	0.25	0.30	0.16	0.04	0.74
Avail Cap(c_a), veh/h	435	2639	2639	1215	472	420
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.94	0.94	0.96	0.96	1.00	1.00
Uniform Delay (d), s/veh	4.4	3.2	3.3	3.0	30.7	33.0
Incr Delay (d2), s/veh	0.1	0.2	0.3	0.3	0.1	8.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.9	1.1	0.5	0.1	2.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.5	3.4	3.6	3.2	30.9	41.9
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		682	997		127	
Approach Delay, s/veh		3.4	3.5		41.2	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	61.6				61.6	13.4
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	7.2
Green Ext Time (p_c), s	0.0				0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	6.1
HCM 7th LOS	A

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	80	517	0	0	830	16	47	1	326	0	0	0
Future Volume (veh/h)	80	517	0	0	830	16	47	1	326	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1885	0	0	1900	1900	1811	1976	1870			
Adj Flow Rate, veh/h	89	574	0	0	922	18	52	1	362			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90			
Percent Heavy Veh, %	0	1	0	0	0	0	6	0	2			
Cap, veh/h	410	2434	0	0	2461	48	402	1	390			
Arrive On Green	0.68	0.68	0.00	0.00	0.68	0.68	0.23	0.23	0.23			
Sat Flow, veh/h	629	3676	0	0	3716	71	1725	5	1671			
Grp Volume(v), veh/h	89	574	0	0	460	480	52	0	363			
Grp Sat Flow(s),veh/h/ln	629	1791	0	0	1805	1887	1725	0	1675			
Q Serve(g_s), s	9.9	8.6	0.0	0.0	15.3	15.3	3.3	0.0	29.7			
Cycle Q Clear(g_c), s	25.2	8.6	0.0	0.0	15.3	15.3	3.3	0.0	29.7			
Prop In Lane	1.00		0.00	0.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	410	2434	0	0	1227	1282	402	0	391			
V/C Ratio(X)	0.22	0.24	0.00	0.00	0.37	0.37	0.13	0.00	0.93			
Avail Cap(c_a), veh/h	410	2434	0	0	1227	1282	663	0	644			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.98	0.98	0.00	0.00	0.86	0.86	1.00	0.00	1.00			
Uniform Delay (d), s/veh	15.1	8.6	0.0	0.0	9.6	9.6	42.4	0.0	52.5			
Incr Delay (d2), s/veh	1.2	0.2	0.0	0.0	0.8	0.7	0.1	0.0	9.2			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.5	3.1	0.0	0.0	5.7	6.0	1.5	0.0	13.5			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	16.2	8.8	0.0	0.0	10.4	10.4	42.5	0.0	61.8			
LnGrp LOS	B	A			B	B	D		E			
Approach Vol, veh/h		663			940			415				
Approach Delay, s/veh		9.8			10.4			59.4				
Approach LOS		A			B			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	101.1	38.9	101.1
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	74.0	* 54	74.0
Max Q Clear Time (g_c+I1), s	27.2	31.7	0.0
Green Ext Time (p_c), s	0.1	1.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	20.3
HCM 7th LOS	C

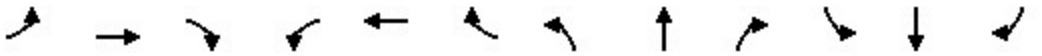
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	88	729	26	9	736	90	13	10	12	129	9	97
Future Volume (veh/h)	88	729	26	9	736	90	13	10	12	129	9	97
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1885	1900	1976	1900	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	100	828	30	10	836	102	15	11	14	147	10	110
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	0	1	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	545	2281	83	496	1829	223	103	74	58	299	17	187
Arrive On Green	0.10	0.65	0.65	0.02	0.56	0.56	0.13	0.13	0.13	0.00	0.13	0.13
Sat Flow, veh/h	1882	3525	128	1882	3237	395	265	589	460	1810	135	1485
Grp Volume(v), veh/h	100	421	437	10	466	472	40	0	0	147	0	120
Grp Sat Flow(s),veh/h/ln	1882	1791	1862	1882	1805	1827	1314	0	0	1810	0	1620
Q Serve(g_s), s	1.2	7.7	7.7	0.2	10.7	10.7	0.1	0.0	0.0	0.1	0.0	5.0
Cycle Q Clear(g_c), s	1.2	7.7	7.7	0.2	10.7	10.7	5.0	0.0	0.0	0.1	0.0	5.0
Prop In Lane	1.00		0.07	1.00		0.22	0.37		0.35	1.00		0.92
Lane Grp Cap(c), veh/h	545	1159	1205	496	1020	1032	235	0	0	299	0	204
V/C Ratio(X)	0.18	0.36	0.36	0.02	0.46	0.46	0.17	0.00	0.00	0.49	0.00	0.59
Avail Cap(c_a), veh/h	628	1159	1205	733	1020	1032	932	0	0	552	0	1259
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	4.9	5.8	5.8	6.3	9.0	9.0	27.7	0.0	0.0	28.8	0.0	29.2
Incr Delay (d2), s/veh	0.2	0.9	0.8	0.0	1.5	1.5	0.3	0.0	0.0	1.3	0.0	2.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.1	2.2	0.0	3.6	3.6	0.6	0.0	0.0	2.4	0.0	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	5.1	6.6	6.6	6.3	10.5	10.5	28.0	0.0	0.0	30.0	0.0	31.9
LnGrp LOS	A	A	A	A	B	B	C			C		C
Approach Vol, veh/h		958			948			40			267	
Approach Delay, s/veh		6.5			10.5			28.0			30.9	
Approach LOS		A			B			C			C	

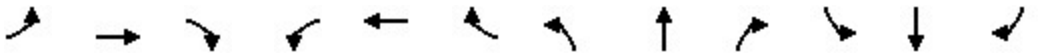
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.1	50.8		13.9	11.9	45.0	0.0	13.9				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	9.7		7.0	3.2	12.7	0.0	7.0				
Green Ext Time (p_c), s	0.0	3.2		0.5	0.1	3.6	0.0	0.1				

Intersection Summary			
HCM 7th Control Delay, s/veh		11.5	
HCM 7th LOS		B	

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	119	666	85	140	671	90	74	176	135	104	206	90
Future Volume (veh/h)	119	666	85	140	671	90	74	176	135	104	206	90
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1885	1900	1900	1900	1900	1885	1900	1900	1885
Adj Flow Rate, veh/h	127	709	90	149	714	96	79	187	144	111	219	96
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	1	0	1	0	0	0	0	1	0	0	1
Cap, veh/h	430	1674	751	437	1715	763	237	269	225	267	305	255
Arrive On Green	0.06	0.47	0.47	0.07	0.48	0.48	0.05	0.14	0.14	0.07	0.16	0.16
Sat Flow, veh/h	1810	3582	1607	1795	3610	1607	1810	1900	1587	1810	1900	1589
Grp Volume(v), veh/h	127	709	90	149	714	96	79	187	144	111	219	96
Grp Sat Flow(s),veh/h/ln	1810	1791	1607	1795	1805	1607	1810	1900	1587	1810	1900	1589
Q Serve(g_s), s	2.9	10.8	2.6	3.5	10.7	2.7	3.0	7.7	7.1	4.2	9.0	4.4
Cycle Q Clear(g_c), s	2.9	10.8	2.6	3.5	10.7	2.7	3.0	7.7	7.1	4.2	9.0	4.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	430	1674	751	437	1715	763	237	269	225	267	305	255
V/C Ratio(X)	0.30	0.42	0.12	0.34	0.42	0.13	0.33	0.69	0.64	0.42	0.72	0.38
Avail Cap(c_a), veh/h	565	1674	751	557	1715	763	384	890	744	380	890	744
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.7	14.6	12.4	10.7	14.1	12.1	28.4	33.7	33.4	27.6	32.8	30.9
Incr Delay (d2), s/veh	0.4	0.8	0.3	0.5	0.7	0.3	0.8	3.2	3.0	1.0	3.1	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	4.0	0.9	1.2	3.9	1.0	1.3	3.7	2.8	1.8	4.3	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.1	15.4	12.7	11.1	14.9	12.4	29.2	36.9	36.4	28.6	35.9	31.8
LnGrp LOS	B	B	B	B	B	B	C	D	D	C	D	C
Approach Vol, veh/h		926			959			410			426	
Approach Delay, s/veh		14.5			14.1			35.2			33.1	
Approach LOS		B			B			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.5	45.0	8.3	19.6	8.8	45.6	9.9	18.1
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	5.5	0.0	5.0	11.0	4.9	0.0	6.2	9.7
Green Ext Time (p_c), s	0.2	0.0	0.1	1.1	0.2	0.0	0.1	1.2

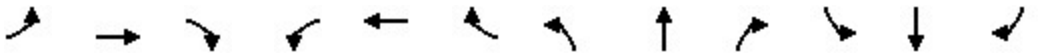
Intersection Summary	
HCM 7th Control Delay, s/veh	20.4
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	490	52	54	469	11	44	10	56	16	15	52
Future Volume (veh/h)	41	490	52	54	469	11	44	10	56	16	15	52
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.96	1.00		0.94
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1976	1885	1767	1900	1900	1900	1900	1976	1976
Adj Flow Rate, veh/h	43	516	55	57	494	12	46	11	59	17	16	55
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	1	0	0	1	9	0	0	0	0	0	0
Cap, veh/h	57	2234	237	73	2470	60	113	27	119	46	43	73
Arrive On Green	0.03	0.68	0.68	0.04	0.69	0.69	0.08	0.08	0.08	0.05	0.05	0.05
Sat Flow, veh/h	1781	3267	347	1882	3574	87	1474	352	1553	992	934	1577
Grp Volume(v), veh/h	43	282	289	57	247	259	57	0	59	33	0	55
Grp Sat Flow(s),veh/h/ln	1781	1791	1823	1882	1791	1870	1826	0	1553	1926	0	1577
Q Serve(g_s), s	4.4	10.9	11.0	5.6	9.2	9.2	5.5	0.0	6.7	3.1	0.0	6.4
Cycle Q Clear(g_c), s	4.4	10.9	11.0	5.6	9.2	9.2	5.5	0.0	6.7	3.1	0.0	6.4
Prop In Lane	1.00		0.19	1.00		0.05	0.81		1.00	0.52		1.00
Lane Grp Cap(c), veh/h	57	1225	1246	73	1238	1292	139	0	119	89	0	73
V/C Ratio(X)	0.76	0.23	0.23	0.78	0.20	0.20	0.41	0.00	0.50	0.37	0.00	0.75
Avail Cap(c_a), veh/h	416	1225	1246	185	1238	1292	321	0	273	338	0	277
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	88.9	11.0	11.0	88.1	10.2	10.2	81.5	0.0	82.0	85.6	0.0	87.2
Incr Delay (d2), s/veh	25.1	0.4	0.4	15.9	0.4	0.3	2.7	0.0	4.5	2.5	0.0	14.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	4.4	4.5	3.0	3.7	3.8	2.7	0.0	2.9	1.6	0.0	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	114.0	11.4	11.4	104.0	10.6	10.6	84.2	0.0	86.6	88.2	0.0	101.7
LnGrp LOS	F	B	B	F	B	B	F		F	F		F
Approach Vol, veh/h		614			563			116			88	
Approach Delay, s/veh		18.6			20.1			85.4			96.6	
Approach LOS		B			C			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.7	134.6		21.6	14.0	133.3		16.1				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	6.4	0.0		8.7	7.6	0.0		8.4				
Green Ext Time (p_c), s	0.2	0.0		0.5	0.1	0.0		0.3				

Intersection Summary	
HCM 7th Control Delay, s/veh	29.8
HCM 7th LOS	C

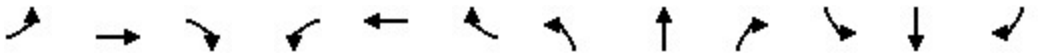
Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	633	314	163	835	58	191	86	23	150	224	133
Future Volume (veh/h)	51	633	314	163	835	58	191	86	23	150	224	133
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	0.98		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1961	1885	1885	1870	1945	1604	1900	1900	1868	1856
Adj Flow Rate, veh/h	52	646	320	166	852	59	195	88	23	153	229	136
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	1	1	1	2	2	20	0	0	7	3
Cap, veh/h	271	1379	630	349	1446	100	287	319	83	482	257	153
Arrive On Green	0.03	0.38	0.38	0.07	0.43	0.43	0.10	0.26	0.26	0.08	0.24	0.24
Sat Flow, veh/h	1810	3610	1648	1795	3397	235	1853	1220	319	1810	1088	646
Grp Volume(v), veh/h	52	646	320	166	449	462	195	0	111	153	0	365
Grp Sat Flow(s),veh/h/ln	1810	1805	1648	1795	1791	1842	1853	0	1539	1810	0	1735
Q Serve(g_s), s	1.8	13.6	15.0	5.4	19.4	19.4	7.9	0.0	5.8	6.4	0.0	20.6
Cycle Q Clear(g_c), s	1.8	13.6	15.0	5.4	19.4	19.4	7.9	0.0	5.8	6.4	0.0	20.6
Prop In Lane	1.00		1.00	1.00		0.13	1.00		0.21	1.00		0.37
Lane Grp Cap(c), veh/h	271	1379	630	349	762	784	287	0	402	482	0	410
V/C Ratio(X)	0.19	0.47	0.51	0.48	0.59	0.59	0.68	0.00	0.28	0.32	0.00	0.89
Avail Cap(c_a), veh/h	414	1379	630	412	762	784	289	0	597	529	0	673
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	19.2	23.5	23.9	17.0	22.2	22.2	27.6	0.0	29.7	25.7	0.0	37.3
Incr Delay (d2), s/veh	0.3	1.1	2.9	1.0	3.3	3.2	6.2	0.0	0.4	0.4	0.0	8.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	5.6	6.2	2.1	8.2	8.4	3.9	0.0	2.2	2.8	0.0	9.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	19.5	24.6	26.8	18.0	25.6	25.5	33.8	0.0	30.1	26.0	0.0	45.9
LnGrp LOS	B	C	C	B	C	C	C		C	C		D
Approach Vol, veh/h		1018			1077			306			518	
Approach Delay, s/veh		25.1			24.4			32.5			40.0	
Approach LOS		C			C			C			D	

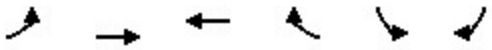
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	45.0	14.9	29.7	7.1	49.4	12.4	32.2
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	7.4	0.0	9.9	22.6	3.8	0.0	8.4	7.8
Green Ext Time (p_c), s	0.2	0.0	0.0	1.3	0.0	0.0	0.1	0.4

Intersection Summary	
HCM 7th Control Delay, s/veh	28.2
HCM 7th LOS	C

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
No-Build_PM



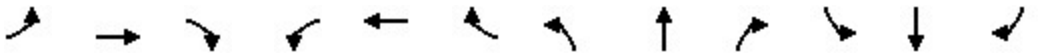
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	5	801	913	257	24	143
Future Volume (veh/h)	5	801	913	257	24	143
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1976	1900	1885	1961	1976	1961
Adj Flow Rate, veh/h	5	834	951	268	25	149
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	1	1	0	1
Cap, veh/h	390	2571	2551	1169	228	201
Arrive On Green	0.71	0.71	0.71	0.71	0.12	0.12
Sat Flow, veh/h	483	3705	3676	1642	1882	1662
Grp Volume(v), veh/h	5	834	951	268	25	149
Grp Sat Flow(s),veh/h/ln	483	1805	1791	1642	1882	1662
Q Serve(g_s), s	0.3	6.5	7.8	4.2	0.9	6.5
Cycle Q Clear(g_c), s	8.1	6.5	7.8	4.2	0.9	6.5
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	390	2571	2551	1169	228	201
V/C Ratio(X)	0.01	0.32	0.37	0.23	0.11	0.74
Avail Cap(c_a), veh/h	390	2571	2551	1169	472	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.89	0.89	0.82	0.82	1.00	1.00
Uniform Delay (d), s/veh	5.8	4.0	4.2	3.7	29.4	31.8
Incr Delay (d2), s/veh	0.1	0.3	0.3	0.4	0.3	7.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.4	1.7	0.9	0.4	2.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.9	4.3	4.6	4.1	29.7	39.2
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		839	1219		174	
Approach Delay, s/veh		4.3	4.5		37.8	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	59.7				59.7	15.3
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	8.5
Green Ext Time (p_c), s	0.0				0.0	0.8

Intersection Summary	
HCM 7th Control Delay, s/veh	7.0
HCM 7th LOS	A

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	72	753	0	0	1116	29	54	0	594	0	0	0
Future Volume (veh/h)	72	753	0	0	1116	29	54	0	594	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1900	0	0	1885	1796	1870	1976	1900			
Adj Flow Rate, veh/h	75	784	0	0	1162	30	56	0	619			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	0	0	0	0	1	7	2	0	0			
Cap, veh/h	205	1961	0	0	1937	50	678	0	637			
Arrive On Green	0.54	0.54	0.00	0.00	0.54	0.54	0.38	0.00	0.38			
Sat Flow, veh/h	496	3705	0	0	3660	92	1781	0	1675			
Grp Volume(v), veh/h	75	784	0	0	583	609	56	0	619			
Grp Sat Flow(s),veh/h/ln	496	1805	0	0	1791	1867	1781	0	1675			
Q Serve(g_s), s	19.3	20.3	0.0	0.0	35.3	35.3	3.2	0.0	58.1			
Cycle Q Clear(g_c), s	54.7	20.3	0.0	0.0	35.3	35.3	3.2	0.0	58.1			
Prop In Lane	1.00		0.00	0.00		0.05	1.00		1.00			
Lane Grp Cap(c), veh/h	205	1961	0	0	973	1014	678	0	637			
V/C Ratio(X)	0.37	0.40	0.00	0.00	0.60	0.60	0.08	0.00	0.97			
Avail Cap(c_a), veh/h	205	1961	0	0	973	1014	710	0	668			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.96	0.96	0.00	0.00	0.80	0.80	1.00	0.00	1.00			
Uniform Delay (d), s/veh	43.3	21.3	0.0	0.0	24.8	24.8	31.7	0.0	48.7			
Incr Delay (d2), s/veh	4.8	0.6	0.0	0.0	2.2	2.1	0.0	0.0	26.8			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	2.6	8.6	0.0	0.0	15.1	15.7	1.4	0.0	28.9			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	48.1	21.9	0.0	0.0	27.0	26.9	31.7	0.0	75.5			
LnGrp LOS	D	C			C	C	C		E			
Approach Vol, veh/h		859			1192			675				
Approach Delay, s/veh		24.2			26.9			71.9				
Approach LOS		C			C			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	92.9	67.1	92.9
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	84.0	* 64	84.0
Max Q Clear Time (g_c+I1), s	56.7	60.1	0.0
Green Ext Time (p_c), s	0.1	0.8	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	37.2
HCM 7th LOS	D

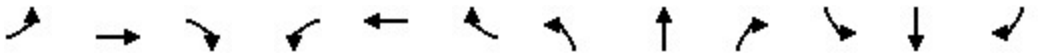
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	26	1298	23	16	1075	47	20	14	14	118	15	50
Future Volume (veh/h)	26	1298	23	16	1075	47	20	14	14	118	15	50
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1900	1900	1976	1885	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	27	1352	24	17	1120	49	21	15	15	123	16	52
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	1	0	0	0	0	0	0	0
Cap, veh/h	408	2271	40	322	2108	92	134	91	62	349	49	158
Arrive On Green	0.05	0.63	0.63	0.02	0.60	0.60	0.12	0.12	0.12	0.00	0.12	0.12
Sat Flow, veh/h	1882	3629	64	1882	3496	153	461	738	499	1810	392	1275
Grp Volume(v), veh/h	27	672	704	17	574	595	51	0	0	123	0	68
Grp Sat Flow(s),veh/h/ln	1882	1805	1888	1882	1791	1858	1698	0	0	1810	0	1667
Q Serve(g_s), s	0.3	14.7	14.7	0.2	12.4	12.4	0.0	0.0	0.0	0.1	0.0	2.5
Cycle Q Clear(g_c), s	0.3	14.7	14.7	0.2	12.4	12.4	1.6	0.0	0.0	0.1	0.0	2.5
Prop In Lane	1.00		0.03	1.00		0.08	0.41		0.29	1.00		0.76
Lane Grp Cap(c), veh/h	408	1130	1182	322	1080	1120	287	0	0	349	0	206
V/C Ratio(X)	0.07	0.59	0.60	0.05	0.53	0.53	0.18	0.00	0.00	0.35	0.00	0.33
Avail Cap(c_a), veh/h	603	1130	1182	560	1080	1120	1062	0	0	619	0	1382
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.3	7.4	7.4	6.0	7.7	7.7	26.2	0.0	0.0	25.4	0.0	26.6
Incr Delay (d2), s/veh	0.1	2.3	2.2	0.1	1.9	1.8	0.3	0.0	0.0	0.6	0.0	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	4.3	4.5	0.1	3.7	3.9	0.7	0.0	0.0	1.7	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	5.4	9.7	9.6	6.1	9.6	9.5	26.5	0.0	0.0	26.0	0.0	27.5
LnGrp LOS	A	A	A	A	A	A	C			C		C
Approach Vol, veh/h		1403			1186			51			191	
Approach Delay, s/veh		9.6			9.5			26.5			26.6	
Approach LOS		A			A			C			C	

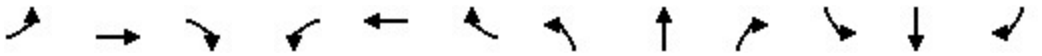
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.6	46.5		13.2	8.1	45.0	0.0	13.2				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	16.7		4.5	2.3	14.4	0.0	3.6				
Green Ext Time (p_c), s	0.0	5.9		0.2	0.0	4.7	0.0	0.2				

Intersection Summary												
HCM 7th Control Delay, s/veh			11.0									
HCM 7th LOS			B									

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	167	1115	141	198	923	176	114	388	243	196	324	100
Future Volume (veh/h)	167	1115	141	198	923	176	114	388	243	196	324	100
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1870	1900	1900	1885	1900	1885	1900	1900	1885	1885
Adj Flow Rate, veh/h	170	1138	144	202	942	180	116	396	248	200	331	102
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	2	0	0	1	0	1	0	0	1	1
Cap, veh/h	291	1334	582	263	1374	604	306	457	390	281	521	441
Arrive On Green	0.08	0.37	0.37	0.09	0.38	0.38	0.07	0.24	0.24	0.10	0.28	0.28
Sat Flow, veh/h	1810	3610	1574	1810	3610	1587	1810	1885	1610	1810	1885	1598
Grp Volume(v), veh/h	170	1138	144	202	942	180	116	396	248	200	331	102
Grp Sat Flow(s),veh/h/ln	1810	1805	1574	1810	1805	1587	1810	1885	1610	1810	1885	1598
Q Serve(g_s), s	6.0	30.2	6.6	7.1	22.8	8.3	4.9	21.0	14.4	8.3	16.1	5.1
Cycle Q Clear(g_c), s	6.0	30.2	6.6	7.1	22.8	8.3	4.9	21.0	14.4	8.3	16.1	5.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	291	1334	582	263	1374	604	306	457	390	281	521	441
V/C Ratio(X)	0.58	0.85	0.25	0.77	0.69	0.30	0.38	0.87	0.64	0.71	0.64	0.23
Avail Cap(c_a), veh/h	343	1334	582	295	1374	604	379	699	597	293	699	592
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.0	30.2	22.8	23.6	27.0	22.5	27.5	37.9	35.3	27.4	33.1	29.1
Incr Delay (d2), s/veh	1.8	7.1	1.0	10.3	2.8	1.3	0.8	7.3	1.7	7.5	1.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	13.5	2.6	3.5	9.7	3.2	2.2	10.4	5.7	4.1	7.3	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	22.8	37.3	23.8	34.0	29.9	23.8	28.3	45.2	37.1	34.8	34.4	29.4
LnGrp LOS	C	D	C	C	C	C	C	D	D	C	C	C
Approach Vol, veh/h		1452			1324			760			633	
Approach Delay, s/veh		34.3			29.7			40.0			33.7	
Approach LOS		C			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	45.0	10.8	35.2	12.1	46.1	14.3	31.6
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	9.1	0.0	6.9	18.1	8.0	0.0	10.3	23.0
Green Ext Time (p_c), s	0.1	0.0	0.1	1.5	0.1	0.0	0.0	2.3

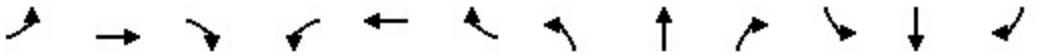
Intersection Summary	
HCM 7th Control Delay, s/veh	33.8
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	127	825	33	43	635	45	68	31	52	132	61	325
Future Volume (veh/h)	127	825	33	43	635	45	68	31	52	132	61	325
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.96	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1976	1870	1826	1900	1900	1900	1885	1976	1976
Adj Flow Rate, veh/h	134	868	35	45	668	47	72	33	55	139	64	342
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	1	0	0	2	5	0	0	0	1	0	0
Cap, veh/h	158	1889	76	59	1625	114	126	58	155	230	106	288
Arrive On Green	0.09	0.54	0.54	0.03	0.48	0.48	0.10	0.10	0.10	0.18	0.18	0.18
Sat Flow, veh/h	1810	3509	141	1882	3368	237	1260	577	1547	1308	602	1637
Grp Volume(v), veh/h	134	443	460	45	352	363	105	0	55	203	0	342
Grp Sat Flow(s),veh/h/ln	1810	1791	1860	1882	1777	1828	1837	0	1547	1911	0	1637
Q Serve(g_s), s	13.5	28.1	28.1	4.4	23.7	23.7	10.1	0.0	6.1	18.1	0.0	32.5
Cycle Q Clear(g_c), s	13.5	28.1	28.1	4.4	23.7	23.7	10.1	0.0	6.1	18.1	0.0	32.5
Prop In Lane	1.00		0.08	1.00		0.13	0.69		1.00	0.68		1.00
Lane Grp Cap(c), veh/h	158	964	1001	59	857	882	184	0	155	336	0	288
V/C Ratio(X)	0.85	0.46	0.46	0.76	0.41	0.41	0.57	0.00	0.36	0.60	0.00	1.19
Avail Cap(c_a), veh/h	423	964	1001	185	857	882	323	0	272	336	0	288
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	83.2	26.2	26.2	88.9	30.9	30.9	79.5	0.0	77.7	70.3	0.0	76.3
Incr Delay (d2), s/veh	16.0	1.6	1.5	18.0	1.5	1.4	3.9	0.0	2.0	3.1	0.0	114.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.0	12.3	12.8	2.4	10.5	10.8	5.0	0.0	2.6	9.2	0.0	22.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	99.2	27.8	27.7	106.9	32.4	32.3	83.4	0.0	79.6	73.4	0.0	190.6
LnGrp LOS	F	C	C	F	C	C	F		E	E		F
Approach Vol, veh/h		1037			760			160			545	
Approach Delay, s/veh		37.0			36.8			82.1			146.9	
Approach LOS		D			D			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	22.9	96.1		26.0	12.6	106.4		40.0				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	15.5	0.0		12.1	6.4	0.0		34.5				
Green Ext Time (p_c), s	0.6	0.0		0.7	0.1	0.0		0.0				

Intersection Summary		
HCM 7th Control Delay, s/veh	63.7	
HCM 7th LOS	E	

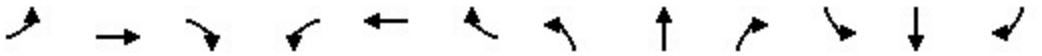
Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	580	199	131	693	19	151	23	25	26	35	44
Future Volume (veh/h)	23	580	199	131	693	19	151	23	25	26	35	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	0.98		0.98	0.97		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1885	1945	1885	1900	1900	1961	1693	1900	1841	1837	1870
Adj Flow Rate, veh/h	26	659	226	149	788	22	172	26	28	30	40	50
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	5	1	2	1	0	0	1	14	0	4	9	2
Cap, veh/h	359	1634	748	413	1793	50	375	159	171	293	94	117
Arrive On Green	0.02	0.46	0.46	0.07	0.50	0.50	0.10	0.22	0.22	0.02	0.13	0.13
Sat Flow, veh/h	1739	3582	1639	1795	3587	100	1867	737	794	1753	728	910
Grp Volume(v), veh/h	26	659	226	149	397	413	172	0	54	30	0	90
Grp Sat Flow(s),veh/h/ln	1739	1791	1639	1795	1805	1882	1867	0	1531	1753	0	1637
Q Serve(g_s), s	0.7	10.4	7.4	3.5	11.9	11.9	6.4	0.0	2.4	1.2	0.0	4.3
Cycle Q Clear(g_c), s	0.7	10.4	7.4	3.5	11.9	11.9	6.4	0.0	2.4	1.2	0.0	4.3
Prop In Lane	1.00		1.00	1.00		0.05	1.00		0.52	1.00		0.56
Lane Grp Cap(c), veh/h	359	1634	748	413	902	941	375	0	330	293	0	211
V/C Ratio(X)	0.07	0.40	0.30	0.36	0.44	0.44	0.46	0.00	0.16	0.10	0.00	0.43
Avail Cap(c_a), veh/h	547	1634	748	530	902	941	411	0	710	479	0	759
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.1	15.3	14.5	10.8	13.6	13.6	26.4	0.0	27.0	30.9	0.0	34.0
Incr Delay (d2), s/veh	0.1	0.7	1.0	0.5	1.6	1.5	0.9	0.0	0.2	0.2	0.0	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	3.9	2.8	1.2	4.6	4.7	2.9	0.0	0.9	0.5	0.0	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	12.2	16.1	15.5	11.3	15.1	15.0	27.3	0.0	27.2	31.0	0.0	35.3
LnGrp LOS	B	B	B	B	B	B	C		C	C		D
Approach Vol, veh/h		911			959			226			120	
Approach Delay, s/veh		15.8			14.5			27.2			34.2	
Approach LOS		B			B			C			C	

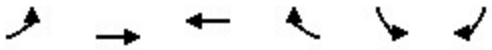
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.5	45.0	13.4	16.7	5.8	48.7	6.0	24.0
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	5.5	0.0	8.4	6.3	2.7	0.0	3.2	4.4
Green Ext Time (p_c), s	0.2	0.0	0.1	0.3	0.0	0.0	0.0	0.2

Intersection Summary	
HCM 7th Control Delay, s/veh	17.4
HCM 7th LOS	B

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
No-Build_SAT



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	12	619	733	184	7	110
Future Volume (veh/h)	12	619	733	184	7	110
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1699	1885	1885	1961	1976	1976
Adj Flow Rate, veh/h	14	703	833	209	8	125
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	18	1	1	1	0	0
Cap, veh/h	416	2623	2623	1208	190	169
Arrive On Green	0.73	0.73	0.73	0.73	0.10	0.10
Sat Flow, veh/h	491	3676	3676	1649	1882	1675
Grp Volume(v), veh/h	14	703	833	209	8	125
Grp Sat Flow(s),veh/h/ln	491	1791	1791	1649	1882	1675
Q Serve(g_s), s	0.8	4.9	6.1	2.9	0.3	5.4
Cycle Q Clear(g_c), s	6.8	4.9	6.1	2.9	0.3	5.4
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	416	2623	2623	1208	190	169
V/C Ratio(X)	0.03	0.27	0.32	0.17	0.04	0.74
Avail Cap(c_a), veh/h	416	2623	2623	1208	472	420
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.93	0.93	0.95	0.95	1.00	1.00
Uniform Delay (d), s/veh	4.7	3.3	3.5	3.1	30.4	32.8
Incr Delay (d2), s/veh	0.1	0.2	0.3	0.3	0.1	8.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	1.0	1.2	0.6	0.1	2.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.8	3.6	3.8	3.4	30.6	41.4
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		717	1042		133	
Approach Delay, s/veh		3.6	3.7		40.8	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	61.2				61.2	13.8
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	7.4
Green Ext Time (p_c), s	0.0				0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	6.3
HCM 7th LOS	A

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — No-Build_SAT

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	542	0	0	868	17	49	1	341	0	0	0
Future Volume (veh/h)	84	542	0	0	868	17	49	1	341	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1885	0	0	1900	1900	1811	1976	1870			
Adj Flow Rate, veh/h	93	602	0	0	964	19	54	1	379			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90			
Percent Heavy Veh, %	0	1	0	0	0	0	6	0	2			
Cap, veh/h	384	2398	0	0	2424	48	420	1	407			
Arrive On Green	0.67	0.67	0.00	0.00	0.67	0.67	0.24	0.24	0.24			
Sat Flow, veh/h	605	3676	0	0	3715	71	1725	4	1671			
Grp Volume(v), veh/h	93	602	0	0	481	502	54	0	380			
Grp Sat Flow(s),veh/h/ln	605	1791	0	0	1805	1886	1725	0	1675			
Q Serve(g_s), s	11.5	9.3	0.0	0.0	16.8	16.8	3.4	0.0	31.1			
Cycle Q Clear(g_c), s	28.3	9.3	0.0	0.0	16.8	16.8	3.4	0.0	31.1			
Prop In Lane	1.00		0.00	0.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	384	2398	0	0	1208	1263	420	0	408			
V/C Ratio(X)	0.24	0.25	0.00	0.00	0.40	0.40	0.13	0.00	0.93			
Avail Cap(c_a), veh/h	384	2398	0	0	1208	1263	663	0	644			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.98	0.98	0.00	0.00	0.84	0.84	1.00	0.00	1.00			
Uniform Delay (d), s/veh	16.8	9.2	0.0	0.0	10.4	10.4	41.4	0.0	51.8			
Incr Delay (d2), s/veh	1.5	0.2	0.0	0.0	0.8	0.8	0.1	0.0	11.0			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.7	3.4	0.0	0.0	6.4	6.6	1.5	0.0	14.3			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	18.3	9.4	0.0	0.0	11.2	11.2	41.4	0.0	62.8			
LnGrp LOS	B	A			B	B	D		E			
Approach Vol, veh/h		695			983			434				
Approach Delay, s/veh		10.6			11.2			60.1				
Approach LOS		B			B			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	99.7	40.3	99.7
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	74.0	* 54	74.0
Max Q Clear Time (g_c+I1), s	30.3	33.1	0.0
Green Ext Time (p_c), s	0.1	1.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	21.1
HCM 7th LOS	C

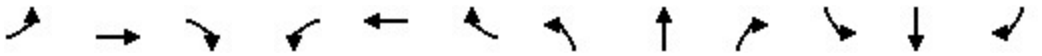
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	92	764	27	9	770	94	14	10	13	135	9	101
Future Volume (veh/h)	92	764	27	9	770	94	14	10	13	135	9	101
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1885	1900	1976	1900	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	105	868	31	10	875	107	16	11	15	153	10	115
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	0	1	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	531	2284	82	478	1825	223	102	70	56	296	16	187
Arrive On Green	0.10	0.65	0.65	0.02	0.56	0.56	0.13	0.13	0.13	0.00	0.13	0.13
Sat Flow, veh/h	1882	3527	126	1882	3236	396	252	556	449	1810	130	1490
Grp Volume(v), veh/h	105	441	458	10	488	494	42	0	0	153	0	125
Grp Sat Flow(s),veh/h/ln	1882	1791	1862	1882	1805	1827	1256	0	0	1810	0	1619
Q Serve(g_s), s	1.3	8.2	8.2	0.2	11.5	11.5	0.1	0.0	0.0	0.1	0.0	5.2
Cycle Q Clear(g_c), s	1.3	8.2	8.2	0.2	11.5	11.5	5.2	0.0	0.0	0.1	0.0	5.2
Prop In Lane	1.00		0.07	1.00		0.22	0.38		0.36	1.00		0.92
Lane Grp Cap(c), veh/h	531	1160	1206	478	1018	1030	228	0	0	296	0	204
V/C Ratio(X)	0.20	0.38	0.38	0.02	0.48	0.48	0.18	0.00	0.00	0.52	0.00	0.61
Avail Cap(c_a), veh/h	611	1160	1206	715	1018	1030	920	0	0	548	0	1256
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.1	5.8	5.8	6.3	9.2	9.2	27.8	0.0	0.0	29.1	0.0	29.4
Incr Delay (d2), s/veh	0.2	0.9	0.9	0.0	1.6	1.6	0.4	0.0	0.0	1.4	0.0	3.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.3	2.3	0.0	3.8	3.9	0.6	0.0	0.0	2.5	0.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	5.3	6.8	6.8	6.4	10.9	10.8	28.1	0.0	0.0	30.5	0.0	32.3
LnGrp LOS	A	A	A	A	B	B	C			C		C
Approach Vol, veh/h		1004			992			42			278	
Approach Delay, s/veh		6.6			10.8			28.1			31.3	
Approach LOS		A			B			C			C	

Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.1	50.9		13.9	12.0	45.0	0.0	13.9				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	10.2		7.2	3.3	13.5	0.0	7.2				
Green Ext Time (p_c), s	0.0	3.4		0.5	0.1	3.8	0.0	0.1				

Intersection Summary												
HCM 7th Control Delay, s/veh			11.8									
HCM 7th LOS			B									

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_SAT

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	124	696	89	146	702	94	77	184	141	109	215	94
Future Volume (veh/h)	124	696	89	146	702	94	77	184	141	109	215	94
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1885	1900	1900	1900	1900	1885	1900	1900	1885
Adj Flow Rate, veh/h	132	740	95	155	747	100	82	196	150	116	229	100
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	1	0	1	0	0	0	0	1	0	0	1
Cap, veh/h	415	1653	741	423	1695	754	238	277	232	269	315	264
Arrive On Green	0.06	0.46	0.46	0.07	0.47	0.47	0.05	0.15	0.15	0.07	0.17	0.17
Sat Flow, veh/h	1810	3582	1607	1795	3610	1607	1810	1900	1588	1810	1900	1589
Grp Volume(v), veh/h	132	740	95	155	747	100	82	196	150	116	229	100
Grp Sat Flow(s),veh/h/ln	1810	1791	1607	1795	1805	1607	1810	1900	1588	1810	1900	1589
Q Serve(g_s), s	3.1	11.7	2.8	3.7	11.5	2.9	3.2	8.2	7.4	4.5	9.5	4.7
Cycle Q Clear(g_c), s	3.1	11.7	2.8	3.7	11.5	2.9	3.2	8.2	7.4	4.5	9.5	4.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	415	1653	741	423	1695	754	238	277	232	269	315	264
V/C Ratio(X)	0.32	0.45	0.13	0.37	0.44	0.13	0.34	0.71	0.65	0.43	0.73	0.38
Avail Cap(c_a), veh/h	544	1653	741	536	1695	754	380	879	735	375	879	735
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.2	15.3	12.9	11.2	14.8	12.5	28.4	33.9	33.6	27.6	33.0	31.0
Incr Delay (d2), s/veh	0.4	0.9	0.4	0.5	0.8	0.4	0.9	3.3	3.0	1.1	3.2	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	4.4	1.0	1.3	4.3	1.1	1.4	3.9	3.0	1.9	4.5	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.6	16.1	13.2	11.7	15.6	12.9	29.3	37.2	36.6	28.7	36.2	31.9
LnGrp LOS	B	B	B	B	B	B	C	D	D	C	D	C
Approach Vol, veh/h		967			1002			428			445	
Approach Delay, s/veh		15.2			14.7			35.5			33.3	
Approach LOS		B			B			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.7	45.0	8.5	20.2	9.1	45.7	10.1	18.6
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	5.7	0.0	5.2	11.5	5.1	0.0	6.5	10.2
Green Ext Time (p_c), s	0.2	0.0	0.1	1.2	0.2	0.0	0.1	1.3

Intersection Summary	
HCM 7th Control Delay, s/veh	20.9
HCM 7th LOS	C

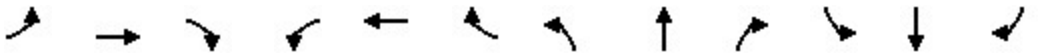
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
6: N Maplemere Road/Coventry Road & CR 263

2254561; 716 Sports Fieldhouse
No-Build_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	512	54	56	490	12	46	10	59	17	16	54
Future Volume (veh/h)	43	512	54	56	490	12	46	10	59	17	16	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.97	1.00		0.94
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1976	1885	1767	1900	1900	1900	1900	1976	1976
Adj Flow Rate, veh/h	45	539	57	59	516	13	48	11	62	18	17	57
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	1	0	0	1	9	0	0	0	0	0	0
Cap, veh/h	59	2222	234	76	2451	62	116	27	121	47	45	75
Arrive On Green	0.03	0.68	0.68	0.04	0.69	0.69	0.08	0.08	0.08	0.05	0.05	0.05
Sat Flow, veh/h	1781	3269	345	1882	3570	90	1485	340	1554	991	936	1580
Grp Volume(v), veh/h	45	295	301	59	259	270	59	0	62	35	0	57
Grp Sat Flow(s),veh/h/ln	1781	1791	1823	1882	1791	1869	1826	0	1554	1926	0	1580
Q Serve(g_s), s	4.6	11.7	11.7	5.7	9.8	9.8	5.7	0.0	7.1	3.3	0.0	6.6
Cycle Q Clear(g_c), s	4.6	11.7	11.7	5.7	9.8	9.8	5.7	0.0	7.1	3.3	0.0	6.6
Prop In Lane	1.00		0.19	1.00		0.05	0.81		1.00	0.51		1.00
Lane Grp Cap(c), veh/h	59	1217	1239	76	1230	1283	142	0	121	92	0	75
V/C Ratio(X)	0.76	0.24	0.24	0.78	0.21	0.21	0.41	0.00	0.51	0.38	0.00	0.76
Avail Cap(c_a), veh/h	416	1217	1239	185	1230	1283	321	0	273	338	0	277
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	88.7	11.4	11.4	88.0	10.6	10.6	81.3	0.0	81.9	85.5	0.0	87.0
Incr Delay (d2), s/veh	24.3	0.5	0.5	15.6	0.4	0.4	2.7	0.0	4.7	2.6	0.0	14.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	4.7	4.8	3.1	3.9	4.1	2.8	0.0	3.0	1.7	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	113.0	11.8	11.8	103.6	11.0	11.0	84.0	0.0	86.6	88.1	0.0	101.4
LnGrp LOS	F	B	B	F	B	B	F		F	F		F
Approach Vol, veh/h		641			588			121			92	
Approach Delay, s/veh		18.9			20.3			85.3			96.3	
Approach LOS		B			C			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.9	133.8		21.9	14.2	132.5		16.3				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	6.6	0.0		9.1	7.7	0.0		8.6				
Green Ext Time (p_c), s	0.2	0.0		0.5	0.1	0.0		0.3				

Intersection Summary		
HCM 7th Control Delay, s/veh		30.0
HCM 7th LOS		C

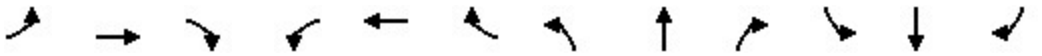
Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	704	314	182	911	58	191	86	41	150	224	133
Future Volume (veh/h)	51	704	314	182	911	58	191	86	41	150	224	133
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	0.98		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1961	1885	1885	1870	1945	1604	1900	1900	1868	1856
Adj Flow Rate, veh/h	52	718	320	186	930	59	195	88	42	153	229	136
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	1	1	1	2	2	20	0	0	7	3
Cap, veh/h	250	1365	623	338	1466	93	285	266	127	460	257	153
Arrive On Green	0.03	0.38	0.38	0.08	0.43	0.43	0.10	0.26	0.26	0.08	0.24	0.24
Sat Flow, veh/h	1810	3610	1648	1795	3419	217	1853	1019	486	1810	1088	646
Grp Volume(v), veh/h	52	718	320	186	487	502	195	0	130	153	0	365
Grp Sat Flow(s),veh/h/ln	1810	1805	1648	1795	1791	1845	1853	0	1505	1810	0	1735
Q Serve(g_s), s	1.8	15.8	15.3	6.2	21.8	21.8	8.0	0.0	7.1	6.4	0.0	20.8
Cycle Q Clear(g_c), s	1.8	15.8	15.3	6.2	21.8	21.8	8.0	0.0	7.1	6.4	0.0	20.8
Prop In Lane	1.00		1.00	1.00		0.12	1.00		0.32	1.00		0.37
Lane Grp Cap(c), veh/h	250	1365	623	338	768	791	285	0	392	460	0	409
V/C Ratio(X)	0.21	0.53	0.51	0.55	0.63	0.63	0.68	0.00	0.33	0.33	0.00	0.89
Avail Cap(c_a), veh/h	390	1365	623	386	768	791	286	0	578	506	0	666
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	19.9	24.7	24.5	17.8	22.9	22.9	27.9	0.0	30.5	26.0	0.0	37.8
Incr Delay (d2), s/veh	0.4	1.5	3.0	1.4	4.0	3.9	6.5	0.0	0.5	0.4	0.0	8.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	6.6	6.4	2.5	9.3	9.6	4.0	0.0	2.6	2.8	0.0	9.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	20.3	26.1	27.5	19.2	26.9	26.8	34.4	0.0	31.0	26.4	0.0	46.7
LnGrp LOS	C	C	C	B	C	C	C		C	C		D
Approach Vol, veh/h		1090			1175			325			518	
Approach Delay, s/veh		26.3			25.6			33.1			40.7	
Approach LOS		C			C			C			D	

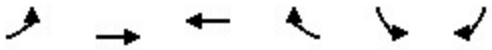
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.3	45.0	15.0	29.9	7.1	50.2	12.4	32.4
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	8.2	0.0	10.0	22.8	3.8	0.0	8.4	9.1
Green Ext Time (p_c), s	0.1	0.0	0.0	1.3	0.0	0.0	0.1	0.5

Intersection Summary	
HCM 7th Control Delay, s/veh	29.1
HCM 7th LOS	C

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
Build_PM



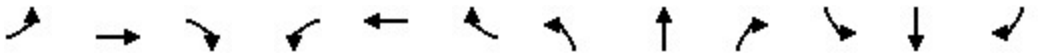
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	5	890	1008	372	24	143
Future Volume (veh/h)	5	890	1008	372	24	143
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1976	1900	1885	1961	1976	1961
Adj Flow Rate, veh/h	5	927	1050	388	25	149
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	1	1	0	1
Cap, veh/h	328	2571	2551	1169	228	201
Arrive On Green	0.71	0.71	0.71	0.71	0.12	0.12
Sat Flow, veh/h	392	3705	3676	1642	1882	1662
Grp Volume(v), veh/h	5	927	1050	388	25	149
Grp Sat Flow(s),veh/h/ln	392	1805	1791	1642	1882	1662
Q Serve(g_s), s	0.4	7.5	9.0	6.7	0.9	6.5
Cycle Q Clear(g_c), s	9.3	7.5	9.0	6.7	0.9	6.5
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	328	2571	2551	1169	228	201
V/C Ratio(X)	0.02	0.36	0.41	0.33	0.11	0.74
Avail Cap(c_a), veh/h	328	2571	2551	1169	472	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.86	0.86	0.61	0.61	1.00	1.00
Uniform Delay (d), s/veh	6.3	4.2	4.4	4.1	29.4	31.8
Incr Delay (d2), s/veh	0.1	0.3	0.3	0.5	0.3	7.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.6	1.9	1.4	0.4	2.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	6.4	4.5	4.7	4.5	29.7	39.2
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		932	1438		174	
Approach Delay, s/veh		4.5	4.7		37.8	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	59.7				59.7	15.3
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	8.5
Green Ext Time (p_c), s	0.0				0.0	0.8

Intersection Summary	
HCM 7th Control Delay, s/veh	6.9
HCM 7th LOS	A

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	72	842	0	0	1326	29	54	0	701	0	0	0
Future Volume (veh/h)	72	842	0	0	1326	29	54	0	701	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1900	0	0	1885	1796	1870	1976	1900			
Adj Flow Rate, veh/h	75	877	0	0	1381	30	56	0	720			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	0	0	0	0	1	7	2	0	0			
Cap, veh/h	136	1895	0	0	1881	41	710	0	668			
Arrive On Green	0.52	0.52	0.00	0.00	0.52	0.52	0.40	0.00	0.40			
Sat Flow, veh/h	403	3705	0	0	3677	78	1781	0	1675			
Grp Volume(v), veh/h	75	877	0	0	690	721	56	0	720			
Grp Sat Flow(s),veh/h/ln	403	1805	0	0	1791	1870	1781	0	1675			
Q Serve(g_s), s	28.3	24.4	0.0	0.0	47.6	47.7	3.1	0.0	63.8			
Cycle Q Clear(g_c), s	76.0	24.4	0.0	0.0	47.6	47.7	3.1	0.0	63.8			
Prop In Lane	1.00		0.00	0.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	136	1895	0	0	940	982	710	0	668			
V/C Ratio(X)	0.55	0.46	0.00	0.00	0.73	0.73	0.08	0.00	1.08			
Avail Cap(c_a), veh/h	136	1895	0	0	940	982	710	0	668			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.94	0.94	0.00	0.00	0.67	0.67	1.00	0.00	1.00			
Uniform Delay (d), s/veh	58.8	23.8	0.0	0.0	29.4	29.4	29.9	0.0	48.1			
Incr Delay (d2), s/veh	14.2	0.8	0.0	0.0	3.4	3.3	0.0	0.0	57.8			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	3.4	10.3	0.0	0.0	20.6	21.5	1.4	0.0	37.2			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	73.0	24.6	0.0	0.0	32.8	32.7	29.9	0.0	105.9			
LnGrp LOS	E	C			C	C	C		F			
Approach Vol, veh/h		952			1411			776				
Approach Delay, s/veh		28.4			32.7			100.4				
Approach LOS		C			C			F				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	90.0	70.0	90.0
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	84.0	* 64	84.0
Max Q Clear Time (g_c+I1), s	78.0	65.8	0.0
Green Ext Time (p_c), s	0.1	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	48.2
HCM 7th LOS	D

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
Build_PM

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	26	1494	23	16	1285	66	20	14	14	136	15	50
Future Volume (veh/h)	26	1494	23	16	1285	66	20	14	14	136	15	50
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1900	1900	1976	1885	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	27	1556	24	17	1339	69	21	15	15	142	16	52
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	1	0	0	0	0	0	0	0
Cap, veh/h	339	2277	35	272	2089	107	134	91	62	349	49	158
Arrive On Green	0.05	0.63	0.63	0.02	0.60	0.60	0.12	0.12	0.12	0.00	0.12	0.12
Sat Flow, veh/h	1882	3639	56	1882	3466	178	461	737	499	1810	392	1275
Grp Volume(v), veh/h	27	771	809	17	691	717	51	0	0	142	0	68
Grp Sat Flow(s),veh/h/ln	1882	1805	1890	1882	1791	1853	1698	0	0	1810	0	1667
Q Serve(g_s), s	0.3	18.5	18.6	0.2	16.6	16.7	0.0	0.0	0.0	0.1	0.0	2.5
Cycle Q Clear(g_c), s	0.3	18.5	18.6	0.2	16.6	16.7	1.6	0.0	0.0	0.1	0.0	2.5
Prop In Lane	1.00		0.03	1.00		0.10	0.41		0.29	1.00		0.76
Lane Grp Cap(c), veh/h	339	1129	1182	272	1079	1117	287	0	0	349	0	207
V/C Ratio(X)	0.08	0.68	0.68	0.06	0.64	0.64	0.18	0.00	0.00	0.41	0.00	0.33
Avail Cap(c_a), veh/h	534	1129	1182	510	1079	1117	1062	0	0	619	0	1381
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	6.4	8.1	8.1	7.0	8.5	8.5	26.2	0.0	0.0	25.7	0.0	26.5
Incr Delay (d2), s/veh	0.1	3.4	3.2	0.1	2.9	2.8	0.3	0.0	0.0	0.8	0.0	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	5.6	5.8	0.1	5.1	5.3	0.7	0.0	0.0	2.0	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	6.5	11.5	11.4	7.1	11.4	11.4	26.5	0.0	0.0	26.5	0.0	27.5
LnGrp LOS	A	B	B	A	B	B	C			C		C
Approach Vol, veh/h		1607			1425			51			210	
Approach Delay, s/veh		11.3			11.4			26.5			26.8	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.6	46.5		13.2	8.1	45.0	0.0	13.2				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	20.6		4.5	2.3	18.7	0.0	3.6				
Green Ext Time (p_c), s	0.0	6.8		0.2	0.0	6.0	0.0	0.2				

Intersection Summary												
HCM 7th Control Delay, s/veh			12.6									
HCM 7th LOS			B									

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
Build_PM

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	205	1192	179	198	994	176	150	388	243	196	324	136
Future Volume (veh/h)	205	1192	179	198	994	176	150	388	243	196	324	136
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1870	1900	1900	1885	1900	1885	1900	1900	1885	1885
Adj Flow Rate, veh/h	209	1216	183	202	1014	180	153	396	248	200	331	139
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	2	0	0	1	0	1	0	0	1	1
Cap, veh/h	290	1334	582	248	1326	583	314	456	390	283	492	417
Arrive On Green	0.09	0.37	0.37	0.09	0.37	0.37	0.08	0.24	0.24	0.10	0.26	0.26
Sat Flow, veh/h	1810	3610	1574	1810	3610	1587	1810	1885	1610	1810	1885	1598
Grp Volume(v), veh/h	209	1216	183	202	1014	180	153	396	248	200	331	139
Grp Sat Flow(s),veh/h/ln	1810	1805	1574	1810	1805	1587	1810	1885	1610	1810	1885	1598
Q Serve(g_s), s	7.4	33.6	8.7	7.2	25.9	8.5	6.5	21.1	14.5	8.6	16.5	7.4
Cycle Q Clear(g_c), s	7.4	33.6	8.7	7.2	25.9	8.5	6.5	21.1	14.5	8.6	16.5	7.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	290	1334	582	248	1326	583	314	456	390	283	492	417
V/C Ratio(X)	0.72	0.91	0.31	0.82	0.76	0.31	0.49	0.87	0.64	0.71	0.67	0.33
Avail Cap(c_a), veh/h	316	1334	582	278	1326	583	356	694	593	291	694	588
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.8	31.4	23.6	24.3	29.2	23.7	27.4	38.1	35.6	28.2	34.7	31.3
Incr Delay (d2), s/veh	7.1	10.9	1.4	15.4	4.2	1.4	1.2	7.5	1.7	7.4	1.6	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.5	15.6	3.4	3.8	11.3	3.3	2.9	10.5	5.7	4.2	7.6	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	29.9	42.3	25.0	39.8	33.4	25.0	28.6	45.6	37.3	35.6	36.3	31.8
LnGrp LOS	C	D	C	D	C	C	C	D	D	D	D	C
Approach Vol, veh/h		1608			1396			797			670	
Approach Delay, s/veh		38.7			33.3			39.8			35.1	
Approach LOS		D			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	45.2	12.6	33.8	13.5	45.0	14.6	31.8
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	9.2	0.0	8.5	18.5	9.4	0.0	10.6	23.1
Green Ext Time (p_c), s	0.1	0.0	0.1	1.7	0.1	0.0	0.0	2.2

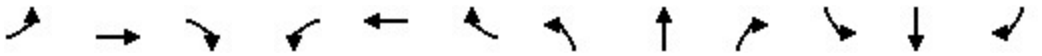
Intersection Summary	
HCM 7th Control Delay, s/veh	36.7
HCM 7th LOS	D

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — Build_PM



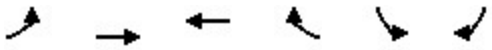
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	127	825	33	61	635	45	68	31	71	132	61	325
Future Volume (veh/h)	127	825	33	61	635	45	68	31	71	132	61	325
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.96	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1976	1870	1826	1900	1900	1900	1885	1976	1976
Adj Flow Rate, veh/h	134	868	35	64	668	47	72	33	75	139	64	342
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	1	0	0	2	5	0	0	0	1	0	0
Cap, veh/h	158	1846	74	81	1624	114	127	58	155	230	106	288
Arrive On Green	0.09	0.53	0.53	0.04	0.48	0.48	0.10	0.10	0.10	0.18	0.18	0.18
Sat Flow, veh/h	1810	3509	141	1882	3368	237	1260	577	1548	1308	602	1637
Grp Volume(v), veh/h	134	443	460	64	352	363	105	0	75	203	0	342
Grp Sat Flow(s),veh/h/ln	1810	1791	1860	1882	1777	1828	1837	0	1548	1911	0	1637
Q Serve(g_s), s	13.5	28.8	28.8	6.2	23.7	23.7	10.1	0.0	8.5	18.1	0.0	32.5
Cycle Q Clear(g_c), s	13.5	28.8	28.8	6.2	23.7	23.7	10.1	0.0	8.5	18.1	0.0	32.5
Prop In Lane	1.00		0.08	1.00		0.13	0.69		1.00	0.68		1.00
Lane Grp Cap(c), veh/h	158	942	978	81	857	881	184	0	155	336	0	288
V/C Ratio(X)	0.85	0.47	0.47	0.79	0.41	0.41	0.57	0.00	0.48	0.60	0.00	1.19
Avail Cap(c_a), veh/h	423	942	978	185	857	881	323	0	272	336	0	288
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	83.2	27.6	27.6	87.6	30.9	31.0	79.4	0.0	78.7	70.3	0.0	76.3
Incr Delay (d2), s/veh	16.0	1.7	1.6	15.2	1.5	1.4	3.9	0.0	3.3	3.1	0.0	114.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.0	12.7	13.2	3.4	10.5	10.8	5.0	0.0	3.6	9.2	0.0	22.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	99.2	29.3	29.2	102.8	32.4	32.4	83.3	0.0	81.9	73.4	0.0	190.6
LnGrp LOS	F	C	C	F	C	C	F		F	E		F
Approach Vol, veh/h		1037			779			180			545	
Approach Delay, s/veh		38.3			38.2			82.7			146.9	
Approach LOS		D			D			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	22.9	96.0		26.1	14.8	104.1		40.0				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	15.5	0.0		12.1	8.2	0.0		34.5				
Green Ext Time (p_c), s	0.6	0.0		0.8	0.1	0.0		0.0				

Intersection Summary	
HCM 7th Control Delay, s/veh	64.7
HCM 7th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	214	1430	1138	143	153	229
Future Volume (veh/h)	214	1430	1138	143	153	229
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1885	1900	1900	1900
Adj Flow Rate, veh/h	223	1490	1185	149	159	239
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	1	0	0	0
Cap, veh/h	280	2171	1926	241	337	300
Arrive On Green	0.60	0.60	0.60	0.60	0.19	0.19
Sat Flow, veh/h	417	3705	3297	401	1810	1610
Grp Volume(v), veh/h	223	1490	661	673	159	239
Grp Sat Flow(s),veh/h/ln	417	1805	1791	1813	1810	1610
Q Serve(g_s), s	20.7	15.8	13.2	13.3	4.4	8.0
Cycle Q Clear(g_c), s	34.0	15.8	13.2	13.3	4.4	8.0
Prop In Lane	1.00			0.22	1.00	1.00
Lane Grp Cap(c), veh/h	280	2171	1077	1090	337	300
V/C Ratio(X)	0.80	0.69	0.61	0.62	0.47	0.80
Avail Cap(c_a), veh/h	280	2171	1077	1090	448	399
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.2	7.6	7.1	7.1	20.5	22.0
Incr Delay (d2), s/veh	14.7	0.9	1.0	1.1	1.0	8.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	4.6	3.1	3.2	1.8	3.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	35.9	8.6	8.2	8.2	21.5	30.0
LnGrp LOS	D	A	A	A	C	C
Approach Vol, veh/h		1713	1334		398	
Approach Delay, s/veh		12.1	8.2		26.6	
Approach LOS		B	A		C	

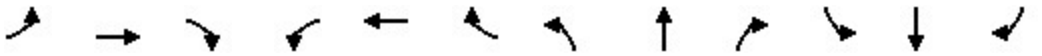
Timer - Assigned Phs				4		6	8
Phs Duration (G+Y+Rc), s				40.0		16.5	40.0
Change Period (Y+Rc), s				6.0		6.0	6.0
Max Green Setting (Gmax), s				34.0		14.0	34.0
Max Q Clear Time (g_c+I1), s				36.0		10.0	0.0
Green Ext Time (p_c), s				0.0		0.5	0.0

Intersection Summary							
HCM 7th Control Delay, s/veh			12.3				
HCM 7th LOS			B				

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	624	199	141	730	19	151	23	36	26	35	44
Future Volume (veh/h)	23	624	199	141	730	19	151	23	36	26	35	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	0.98		0.98	0.97		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1885	1945	1885	1900	1900	1961	1693	1900	1841	1837	1870
Adj Flow Rate, veh/h	26	709	226	160	830	22	172	26	41	30	40	50
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	5	1	2	1	0	0	1	14	0	4	9	2
Cap, veh/h	344	1627	745	401	1801	48	374	126	199	291	94	117
Arrive On Green	0.02	0.45	0.45	0.07	0.50	0.50	0.10	0.22	0.22	0.02	0.13	0.13
Sat Flow, veh/h	1739	3582	1639	1795	3592	95	1867	584	921	1753	728	910
Grp Volume(v), veh/h	26	709	226	160	417	435	172	0	67	30	0	90
Grp Sat Flow(s),veh/h/ln	1739	1791	1639	1795	1805	1883	1867	0	1505	1753	0	1637
Q Serve(g_s), s	0.7	11.4	7.4	3.8	12.7	12.7	6.5	0.0	3.1	1.3	0.0	4.3
Cycle Q Clear(g_c), s	0.7	11.4	7.4	3.8	12.7	12.7	6.5	0.0	3.1	1.3	0.0	4.3
Prop In Lane	1.00		1.00	1.00		0.05	1.00		0.61	1.00		0.56
Lane Grp Cap(c), veh/h	344	1627	745	401	905	944	374	0	324	291	0	211
V/C Ratio(X)	0.08	0.44	0.30	0.40	0.46	0.46	0.46	0.00	0.21	0.10	0.00	0.43
Avail Cap(c_a), veh/h	532	1627	745	510	905	944	410	0	694	476	0	755
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.3	15.8	14.7	11.0	13.7	13.7	26.5	0.0	27.4	31.0	0.0	34.1
Incr Delay (d2), s/veh	0.1	0.9	1.0	0.6	1.7	1.6	0.9	0.0	0.3	0.2	0.0	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	4.3	2.8	1.3	4.9	5.1	2.9	0.0	1.1	0.5	0.0	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	12.4	16.6	15.7	11.7	15.4	15.4	27.4	0.0	27.7	31.2	0.0	35.5
LnGrp LOS	B	B	B	B	B	B	C		C	C		D
Approach Vol, veh/h		961			1012			239			120	
Approach Delay, s/veh		16.3			14.8			27.5			34.4	
Approach LOS		B			B			C			C	

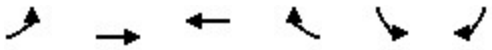
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.8	45.0	13.4	16.8	5.8	49.0	6.0	24.1
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	5.8	0.0	8.5	6.3	2.7	0.0	3.3	5.1
Green Ext Time (p_c), s	0.2	0.0	0.1	0.3	0.0	0.0	0.0	0.2

Intersection Summary	
HCM 7th Control Delay, s/veh	17.7
HCM 7th LOS	B

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
Build _SAT



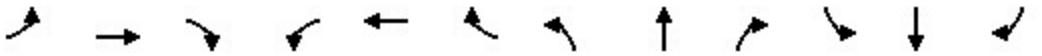
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	12	674	780	242	7	110
Future Volume (veh/h)	12	674	780	242	7	110
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1699	1885	1885	1961	1976	1976
Adj Flow Rate, veh/h	14	766	886	275	8	125
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	18	1	1	1	0	0
Cap, veh/h	379	2623	2623	1208	190	169
Arrive On Green	0.73	0.73	0.73	0.73	0.10	0.10
Sat Flow, veh/h	439	3676	3676	1649	1882	1675
Grp Volume(v), veh/h	14	766	886	275	8	125
Grp Sat Flow(s),veh/h/ln	439	1791	1791	1649	1882	1675
Q Serve(g_s), s	0.9	5.5	6.6	4.0	0.3	5.4
Cycle Q Clear(g_c), s	7.5	5.5	6.6	4.0	0.3	5.4
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	379	2623	2623	1208	190	169
V/C Ratio(X)	0.04	0.29	0.34	0.23	0.04	0.74
Avail Cap(c_a), veh/h	379	2623	2623	1208	472	420
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.91	0.91	0.91	0.91	1.00	1.00
Uniform Delay (d), s/veh	4.9	3.4	3.6	3.2	30.4	32.8
Incr Delay (d2), s/veh	0.2	0.3	0.3	0.4	0.1	8.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	1.1	1.3	0.8	0.1	2.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.1	3.7	3.9	3.6	30.6	41.4
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		780	1161		133	
Approach Delay, s/veh		3.7	3.8		40.8	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	61.2				61.2	13.8
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	7.4
Green Ext Time (p_c), s	0.0				0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	6.1
HCM 7th LOS	A

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	597	0	0	973	17	49	1	407	0	0	0
Future Volume (veh/h)	84	597	0	0	973	17	49	1	407	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1885	0	0	1900	1900	1811	1976	1870			
Adj Flow Rate, veh/h	93	663	0	0	1081	19	54	1	452			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90			
Percent Heavy Veh, %	0	1	0	0	0	0	6	0	2			
Cap, veh/h	305	2243	0	0	2272	40	495	1	479			
Arrive On Green	0.63	0.63	0.00	0.00	0.63	0.63	0.29	0.29	0.29			
Sat Flow, veh/h	541	3676	0	0	3724	64	1725	4	1671			
Grp Volume(v), veh/h	93	663	0	0	538	562	54	0	453			
Grp Sat Flow(s),veh/h/ln	541	1791	0	0	1805	1888	1725	0	1675			
Q Serve(g_s), s	15.5	11.9	0.0	0.0	22.2	22.2	3.2	0.0	37.0			
Cycle Q Clear(g_c), s	37.7	11.9	0.0	0.0	22.2	22.2	3.2	0.0	37.0			
Prop In Lane	1.00		0.00	0.00		0.03	1.00		1.00			
Lane Grp Cap(c), veh/h	305	2243	0	0	1130	1182	495	0	480			
V/C Ratio(X)	0.31	0.30	0.00	0.00	0.48	0.48	0.11	0.00	0.94			
Avail Cap(c_a), veh/h	305	2243	0	0	1130	1182	663	0	644			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.97	0.97	0.00	0.00	0.77	0.77	1.00	0.00	1.00			
Uniform Delay (d), s/veh	24.0	12.0	0.0	0.0	13.9	13.9	36.8	0.0	48.8			
Incr Delay (d2), s/veh	2.5	0.3	0.0	0.0	1.1	1.1	0.0	0.0	17.0			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	2.1	4.6	0.0	0.0	8.8	9.1	1.4	0.0	17.7			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	26.5	12.3	0.0	0.0	15.0	15.0	36.8	0.0	65.8			
LnGrp LOS	C	B			B	B	D		E			
Approach Vol, veh/h		756			1100			507				
Approach Delay, s/veh		14.1			15.0			62.7				
Approach LOS		B			B			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	93.7	46.3	93.7
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	74.0	* 54	74.0
Max Q Clear Time (g_c+I1), s	39.7	39.0	0.0
Green Ext Time (p_c), s	0.1	1.1	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	24.9
HCM 7th LOS	C

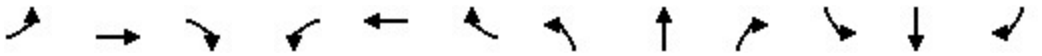
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	92	886	27	9	875	104	14	10	13	146	9	101
Future Volume (veh/h)	92	886	27	9	875	104	14	10	13	146	9	101
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1885	1900	1976	1900	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	105	1007	31	10	994	118	16	11	15	166	10	115
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	0	1	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	486	2296	71	421	1832	217	102	70	56	296	16	187
Arrive On Green	0.10	0.65	0.65	0.02	0.56	0.56	0.13	0.13	0.13	0.00	0.13	0.13
Sat Flow, veh/h	1882	3547	109	1882	3248	385	252	556	449	1810	130	1490
Grp Volume(v), veh/h	105	508	530	10	552	560	42	0	0	166	0	125
Grp Sat Flow(s),veh/h/ln	1882	1791	1865	1882	1805	1829	1256	0	0	1810	0	1619
Q Serve(g_s), s	1.3	9.9	9.9	0.2	13.6	13.6	0.1	0.0	0.0	0.1	0.0	5.2
Cycle Q Clear(g_c), s	1.3	9.9	9.9	0.2	13.6	13.6	5.2	0.0	0.0	0.1	0.0	5.2
Prop In Lane	1.00		0.06	1.00		0.21	0.38		0.36	1.00		0.92
Lane Grp Cap(c), veh/h	486	1160	1208	421	1018	1031	228	0	0	296	0	204
V/C Ratio(X)	0.22	0.44	0.44	0.02	0.54	0.54	0.18	0.00	0.00	0.56	0.00	0.61
Avail Cap(c_a), veh/h	566	1160	1208	658	1018	1031	920	0	0	548	0	1256
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.7	6.2	6.2	6.4	9.7	9.7	27.8	0.0	0.0	29.4	0.0	29.4
Incr Delay (d2), s/veh	0.2	1.2	1.2	0.0	2.1	2.1	0.4	0.0	0.0	1.7	0.0	3.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.8	2.9	0.0	4.6	4.6	0.6	0.0	0.0	2.7	0.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	6.0	7.4	7.3	6.4	11.8	11.8	28.1	0.0	0.0	31.1	0.0	32.3
LnGrp LOS	A	A	A	A	B	B	C			C		C
Approach Vol, veh/h		1143			1122			42			291	
Approach Delay, s/veh		7.2			11.7			28.1			31.6	
Approach LOS		A			B			C			C	

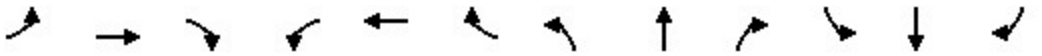
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.1	50.9		13.9	12.0	45.0	0.0	13.9				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	11.9		7.2	3.3	15.6	0.0	7.2				
Green Ext Time (p_c), s	0.0	4.0		0.5	0.1	4.4	0.0	0.1				

Intersection Summary												
HCM 7th Control Delay, s/veh			12.2									
HCM 7th LOS			B									

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	143	735	108	146	746	94	99	184	141	109	215	116
Future Volume (veh/h)	143	735	108	146	746	94	99	184	141	109	215	116
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1885	1900	1900	1900	1900	1885	1900	1900	1885
Adj Flow Rate, veh/h	152	782	115	155	794	100	105	196	150	116	229	123
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	1	0	1	0	0	0	0	1	0	0	1
Cap, veh/h	400	1633	732	399	1651	735	254	294	246	277	306	256
Arrive On Green	0.07	0.46	0.46	0.07	0.46	0.46	0.07	0.15	0.15	0.07	0.16	0.16
Sat Flow, veh/h	1810	3582	1607	1795	3610	1607	1810	1900	1588	1810	1900	1589
Grp Volume(v), veh/h	152	782	115	155	794	100	105	196	150	116	229	123
Grp Sat Flow(s),veh/h/ln	1810	1791	1607	1795	1805	1607	1810	1900	1588	1810	1900	1589
Q Serve(g_s), s	3.7	12.8	3.5	3.8	12.9	3.0	4.0	8.2	7.4	4.5	9.7	5.9
Cycle Q Clear(g_c), s	3.7	12.8	3.5	3.8	12.9	3.0	4.0	8.2	7.4	4.5	9.7	5.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	400	1633	732	399	1651	735	254	294	246	277	306	256
V/C Ratio(X)	0.38	0.48	0.16	0.39	0.48	0.14	0.41	0.67	0.61	0.42	0.75	0.48
Avail Cap(c_a), veh/h	513	1633	732	509	1651	735	369	868	726	381	868	726
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.7	16.0	13.5	11.7	15.9	13.3	27.7	33.6	33.3	27.4	33.8	32.2
Incr Delay (d2), s/veh	0.6	1.0	0.5	0.6	1.0	0.4	1.1	2.6	2.4	1.0	3.7	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	4.8	1.3	1.3	4.9	1.1	1.8	3.9	2.9	1.9	4.6	2.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	12.3	17.0	13.9	12.3	17.0	13.6	28.8	36.2	35.7	28.4	37.5	33.6
LnGrp LOS	B	B	B	B	B	B	C	D	D	C	D	C
Approach Vol, veh/h		1049			1049			451			468	
Approach Delay, s/veh		16.0			16.0			34.3			34.2	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.8	45.0	9.6	20.0	9.7	45.1	10.1	19.5
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	5.8	0.0	6.0	11.7	5.7	0.0	6.5	10.2
Green Ext Time (p_c), s	0.2	0.0	0.1	1.3	0.2	0.0	0.1	1.3

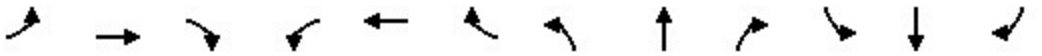
Intersection Summary	
HCM 7th Control Delay, s/veh	21.5
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	512	54	67	490	12	46	10	69	17	16	54
Future Volume (veh/h)	43	512	54	67	490	12	46	10	69	17	16	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.97	1.00		0.94
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1976	1885	1767	1900	1900	1900	1900	1976	1976
Adj Flow Rate, veh/h	45	539	57	71	516	13	48	11	73	18	17	57
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	1	0	0	1	9	0	0	0	0	0	0
Cap, veh/h	59	2180	230	89	2432	61	124	28	130	47	45	75
Arrive On Green	0.03	0.67	0.67	0.05	0.68	0.68	0.08	0.08	0.08	0.05	0.05	0.05
Sat Flow, veh/h	1781	3269	345	1882	3570	90	1485	340	1558	991	936	1580
Grp Volume(v), veh/h	45	295	301	71	259	270	59	0	73	35	0	57
Grp Sat Flow(s),veh/h/ln	1781	1791	1823	1882	1791	1869	1826	0	1558	1926	0	1580
Q Serve(g_s), s	4.6	12.1	12.2	6.9	10.0	10.0	5.7	0.0	8.3	3.3	0.0	6.6
Cycle Q Clear(g_c), s	4.6	12.1	12.2	6.9	10.0	10.0	5.7	0.0	8.3	3.3	0.0	6.6
Prop In Lane	1.00		0.19	1.00		0.05	0.81		1.00	0.51		1.00
Lane Grp Cap(c), veh/h	59	1194	1216	89	1220	1273	152	0	130	92	0	75
V/C Ratio(X)	0.76	0.25	0.25	0.80	0.21	0.21	0.39	0.00	0.56	0.38	0.00	0.76
Avail Cap(c_a), veh/h	416	1194	1216	185	1220	1273	321	0	274	338	0	277
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	88.7	12.3	12.3	87.2	11.0	11.0	80.3	0.0	81.5	85.5	0.0	87.0
Incr Delay (d2), s/veh	24.3	0.5	0.5	14.7	0.4	0.4	2.3	0.0	5.3	2.6	0.0	14.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	4.9	5.1	3.7	4.0	4.2	2.8	0.0	3.6	1.7	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	113.0	12.8	12.8	101.9	11.4	11.4	82.6	0.0	86.8	88.1	0.0	101.4
LnGrp LOS	F	B	B	F	B	B	F		F	F		F
Approach Vol, veh/h		641			600			132			92	
Approach Delay, s/veh		19.8			22.1			84.9			96.3	
Approach LOS		B			C			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.9	132.8		22.9	15.6	130.2		16.3				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	6.6	0.0		10.3	8.9	0.0		8.6				
Green Ext Time (p_c), s	0.2	0.0		0.6	0.1	0.0		0.3				

Intersection Summary	
HCM 7th Control Delay, s/veh	31.4
HCM 7th LOS	C

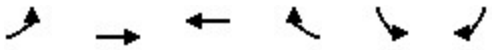
Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
7: Maple Road

2254561; 716 Sports Fieldhouse
Build _SAT



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	133	912	873	88	77	115
Future Volume (veh/h)	133	912	873	88	77	115
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	151	1036	992	100	88	131
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	377	1920	1761	177	233	208
Arrive On Green	0.53	0.53	0.53	0.53	0.13	0.13
Sat Flow, veh/h	525	3705	3406	334	1810	1610
Grp Volume(v), veh/h	151	1036	541	551	88	131
Grp Sat Flow(s),veh/h/ln	525	1805	1805	1840	1810	1610
Q Serve(g_s), s	9.6	6.7	7.1	7.1	1.6	2.7
Cycle Q Clear(g_c), s	16.6	6.7	7.1	7.1	1.6	2.7
Prop In Lane	1.00			0.18	1.00	1.00
Lane Grp Cap(c), veh/h	377	1920	960	979	233	208
V/C Ratio(X)	0.40	0.54	0.56	0.56	0.38	0.63
Avail Cap(c_a), veh/h	603	3470	1735	1769	716	637
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.1	5.4	5.5	5.5	14.1	14.6
Incr Delay (d2), s/veh	0.7	0.2	0.5	0.5	1.0	3.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	1.3	0.9	1.0	0.6	1.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	11.8	5.7	6.1	6.0	15.1	17.8
LnGrp LOS	B	A	A	A	B	B
Approach Vol, veh/h		1187	1092		219	
Approach Delay, s/veh		6.5	6.1		16.7	
Approach LOS		A	A		B	

Timer - Assigned Phs		4		6	8
Phs Duration (G+Y+Rc), s		24.8		10.6	24.8
Change Period (Y+Rc), s		6.0		6.0	6.0
Max Green Setting (Gmax), s		34.0		14.0	34.0
Max Q Clear Time (g_c+I1), s		18.6		4.7	0.0
Green Ext Time (p_c), s		0.2		0.4	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	7.2
HCM 7th LOS	A

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Build - Mitigation_PM

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	72	842	0	0	1326	29	54	0	701	0	0	0
Future Volume (veh/h)	72	842	0	0	1326	29	54	0	701	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1900	0	0	1885	1796	1870	1976	1900			
Adj Flow Rate, veh/h	75	877	0	0	1381	30	56	0	720			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	0	0	0	0	1	7	2	0	0			
Cap, veh/h	109	1743	0	0	1730	38	785	0	738			
Arrive On Green	0.48	0.48	0.00	0.00	0.48	0.48	0.44	0.00	0.44			
Sat Flow, veh/h	403	3705	0	0	3677	78	1781	0	1675			
Grp Volume(v), veh/h	75	877	0	0	690	721	56	0	720			
Grp Sat Flow(s),veh/h/ln	403	1805	0	0	1791	1870	1781	0	1675			
Q Serve(g_s), s	25.3	26.6	0.0	0.0	51.8	52.0	2.9	0.0	67.5			
Cycle Q Clear(g_c), s	77.3	26.6	0.0	0.0	51.8	52.0	2.9	0.0	67.5			
Prop In Lane	1.00		0.00	0.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	109	1743	0	0	865	903	785	0	738			
V/C Ratio(X)	0.69	0.50	0.00	0.00	0.80	0.80	0.07	0.00	0.98			
Avail Cap(c_a), veh/h	109	1743	0	0	865	903	822	0	772			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.94	0.94	0.00	0.00	0.67	0.67	1.00	0.00	1.00			
Uniform Delay (d), s/veh	69.3	28.3	0.0	0.0	34.8	34.8	25.8	0.0	43.9			
Incr Delay (d2), s/veh	28.8	1.0	0.0	0.0	5.2	5.0	0.0	0.0	25.5			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	3.9	11.5	0.0	0.0	23.1	24.1	1.3	0.0	33.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	98.1	29.2	0.0	0.0	40.0	39.9	25.8	0.0	69.4			
LnGrp LOS	F	C			D	D	C		E			
Approach Vol, veh/h		952			1411			776				
Approach Delay, s/veh		34.7			39.9			66.2				
Approach LOS		C			D			E				

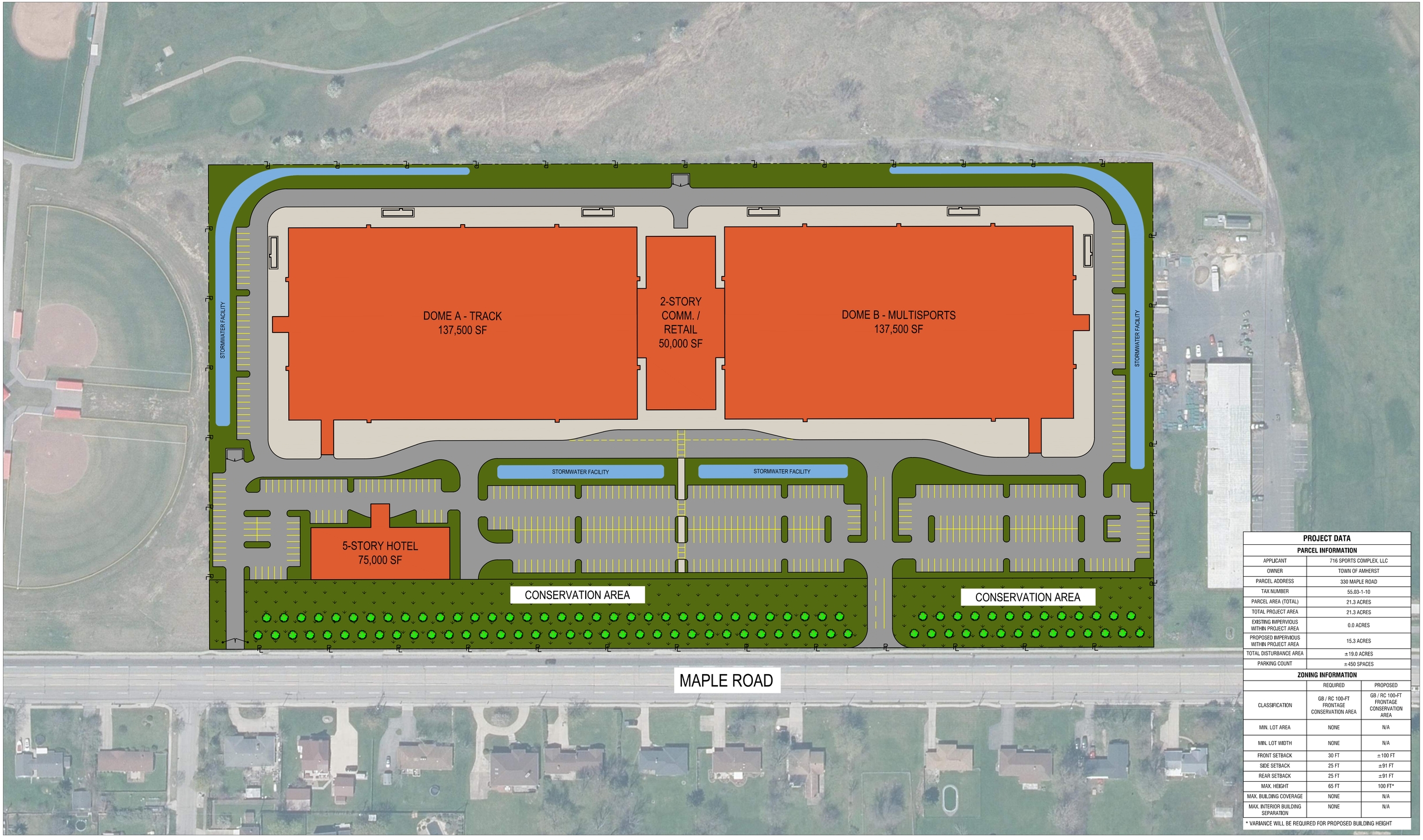
Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	83.3	76.7	83.3
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	74.0	* 74	74.0
Max Q Clear Time (g_c+I1), s	79.3	69.5	0.0
Green Ext Time (p_c), s	0.0	1.1	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	44.8
HCM 7th LOS	D

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



PROJECT DATA		
PARCEL INFORMATION		
APPLICANT	716 SPORTS COMPLEX, LLC	
OWNER	TOWN OF AMHERST	
PARCEL ADDRESS	330 MAPLE ROAD	
TAX NUMBER	55.03-1-10	
PARCEL AREA (TOTAL)	21.3 ACRES	
TOTAL PROJECT AREA	21.3 ACRES	
EXISTING IMPERVIOUS WITHIN PROJECT AREA	0.0 ACRES	
PROPOSED IMPERVIOUS WITHIN PROJECT AREA	15.3 ACRES	
TOTAL DISTURBANCE AREA	±19.0 ACRES	
PARKING COUNT	±450 SPACES	
ZONING INFORMATION		
	REQUIRED	PROPOSED
CLASSIFICATION	GB / RC 100-FT FRONTAGE CONSERVATION AREA	GB / RC 100-FT FRONTAGE CONSERVATION AREA
MIN. LOT AREA	NONE	N/A
MIN. LOT WIDTH	NONE	N/A
FRONT SETBACK	30 FT	±100 FT
SIDE SETBACK	25 FT	±91 FT
REAR SETBACK	25 FT	±91 FT
MAX. HEIGHT	65 FT	100 FT*
MAX. BUILDING COVERAGE	NONE	N/A
MAX. INTERIOR BUILDING SEPARATION	NONE	N/A

* VARIANCE WILL BE REQUIRED FOR PROPOSED BUILDING HEIGHT

LaBella
Powered by partnership.

CONCEPT PLAN

716 SPORTS FIELDHOUSE COMPLEX

DATE: OCTOBER 2, 2025

SCALE: 1"=60'

N

ARC
BUILDING PARTNERS

Attachment: Z-2007-03_A drawing 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Application for Relief of Restrictions
Portion of 330 Maple Road
Applicant: 716 Sports Complex, LLC
October 3, 2025

Hopkins Sorgi & McCarthy PLLC
c/o Sean Hopkins, Esq.
Williamsville, NY 14221
Tel: 510-4338
E-mail: shopkins@hsmlegal.com

TOWN OF AMHERST PLANNING DEPARTMENT

Application for Rezoning

For Official Use

File #: _____ **Acreage** _____ **Fee $** $1,215.00

Address Verified by Assessor's Office _____ VERIFIED BY DATE

Application Received by Planning Department _____ ACCEPTED BY DATE

Materials Checked by Zoning Enforcement Officer _____ CHECKED BY DATE

Materials & Fee Paid to Town Clerk _____ ACCEPTED BY DATE

		Fill In Applicable Fees
2 ACRES OR LESS		_____
2 – 20 ACRES **$1,250 + $250/acre or fraction thereof over 2 acres** (fractions of an acre to be counted as 1 acre)		_____
21 – 30 ACRES **$5,700 + $150/acre or fraction thereof over 21 acres** (fractions of an acre to be counted as 1 acre)		_____
OVER 30 ACRES **$6,900 +$75/acre or fraction thereof over 30 acres** (fractions of an acre to be counted as 1 acre)		_____
Request for Relief of / Change to Conditions of Zoning Approval	$1,200.	$1,200.00
AFFIDAVIT FEE FOR PUBLIC HEARING	$15.	$15.00
	TOTAL FEE:	$ 1,215.00

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

TO BE COMPLETED BY APPLICANT

1. **Petitioner:** Name: 716 Sports Complex, LLC

Address: c/o Sean Hopkins, Esq., Hopkins Sorgi & McCarthy PLLC
35 California Drive, Suite 100
Williamsville, New York 14221
City State Zip Code

Phone: 716.510-4338 Fax:

E Mail shopkins@hsmlegal.com

2. **The undersigned hereby petitions the Honorable Town Board to rezone the following described property**

From: Not Applicable. District

To: District

3. **Street address of land to be rezoned:** (must be verified by Town Assessor's Office)

Portion of 330 Maple Road

SBL #: SBL No. 55.03-1-10

4. **Area of land to be rezoned** (in acres): Not Applicable

5. **Owner of Land**:

Name: Town of Amherst

Address: 5583 Main Street, Williamsville, NY 14221

Telephone: 716.510-4338

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

Name: Sean W. Hopkins, Esq.

Address: 5500 Main Street, Suite 343
Williamsville, New York 14221
Tel: 716.510-4338 - E-mail: shopkins@hsmlegal.com
City State Zip Code

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

7. **Petitioner's interest in property**

[Note: Authorization Resolution adopted by the Town Board on September 30, 2025. A copy of the resolution adopted by the Town Board is provided at Exhibit "14".]

_____ Option to purchase

__X__ Owner

_____ Other (explain)

8. **The following are all others having an interest in this application and join herein with the petitioner named above:** (describe extent of interest; attach sheets as needed)

Not Applicable.

9. **Attach Survey and Legal description of land to be rezoned. The Survey must be prepared by a New York State Licensed Land Surveyor.**

See attached Exhibits "2" and "3".

10. **Said property has the following deed restrictions or Covenants:** (attach copy) -

Liber 11467 Page 0967

A copy of the recorded Declaration of Restrictions is attached as Exhibit "4".

11.

Information on proposed project:

A. Description of the character of the proposed development:

See Exhibit 5

B. Rationale for rezoning request:

1. Why was this site chosen?

See Exhibit 5.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2. Why cannot land be used with the existing zoning?

Not Applicable

3. How will this rezoning impact surrounding properties?

Not Applicable

4. How will this rezoning impact the school system?

Not Applicable..

12. Quantitative Data:

A. Total # of dwelling units Not Applicable

B. Distribution of dwelling units by type _____

C. Gross Residential Density per acre _____

D. Total amount of Open Space Approximately 6 acres

E. Proposed Non-Residential Floor Area 675,000 SF

[Note: A copy of the Concept Plan for the proposed project is provided at Exhibit "7".]

13. Development Schedule:

Start Spring 2026

Finish Spring 2028

Stages (# of) 2

14. If any portion of the proposed development is planned to be sold or leased, please describe:

Portions of space will be leased to third parties.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

15. Open Space ownership and maintenance provisions (if applicable):

Greenspace and landscaping will be privately owned and maintained.

16. Basis for Findings (Sec. 8-3-5 of the Town Zoning Code) (Attach sheets and supplemental materials as necessary.)

A. <u>The proposed zoning and development plan must be generally consistent with the policies of the Comprehensive Plan and the Town Zoning Ordinance.</u>

1. State in detail why the proposed zoning is consistent with the adopted Town of Amherst Bicentennial Comprehensive Plan. Cite specific sections, maps, and/or figures in the plan that support the proposed zoning at this location (The Comprehensive Plan document is available at the Planning Department, Town Clerk's Office, Amherst libraries, or at www.amherst.ny.us). Add sheets as needed.

See Exhibit 6.

2. Pursuant to NYS Town Law Section 272a(11), "all Town land use regulations must be in accordance with a comprehensive plan adopted pursuant to this Section." The Town Board adopted the Comprehensive Plan pursuant to NYS Town Law 272 on January 2, 2007. If the rezoning is approved, the Town Board may require the Plan to be amended, as applicable.

Cite all text, map, and / or figures that must be amended to support the proposed zoning at this location (attach pages as necessary) and provide detailed suggested amendments.

See Exhibit 6.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

3. State why the proposed zoning is consistent with intent and objectives (Sec. 1-2-2) of the Zoning Ordinance:

See Exhibit 6.

B. Adequate Services and Utilities are available or are proposed to be made available with the construction of the development:

1. Sanitary Sewer
   Yes.
2. Storm Sewer/Drainage
   Yes.
3. Water
   Yes.
4. Other Yes.

C. Compatibility with the present zoning and conforming uses of nearby property and with the character of the neighborhood:

See Exhibit 6.

D. Suitability of the subject property for uses permitted by the current versus the proposed district:

See Exhibit 6.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

E. Whether the proposed change tends to improve the balance of uses, or meets a specific demand in the Town:

See Exhibit 6.

17. The petitioner encloses herewith the sum of $ 1,215.00 to pay the fee, and consents to the placement of a sign(s) at the described location identifying this request for a period of time to be determined by the Town Clerk.

18. The undersigned certifies that all information required to be disclosed pursuant to Section 809 of the General Municipal Law (see below) is as follows:

The undersigned swears or affirms that all statements made herein are true, that all drawings submitted correctly show the situation involved in this petition.

[Note: Authorization Letter of Property Owner signed attached as Exhibit "1".]

Signature of Petitioner

Subscribed and sworn to before me this 2 day of October, 20 25

Notary Public, Erie County, New York

KERI L LICKFELD
NOTARY PUBLIC, STATE OF NEW YOR
Registration No. 01LI6413185
Qualified in Erie County
Commission Expires January 19, 202

N.Y.S. General Municipal Law - Section 809 Disclosure in certain applications:

1. Every application, petition or request submitted for a variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provision of any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state office or any office or employee of such municipality or of a municipality of which such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2. For the purpose of this section an officer or employee shall be deemed to have an interest in the applicant when he, his spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them

   (a) is the applicant, or
   (b) is an officer, director, partner or employee of the applicant, or
   (c) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
   (d) is a party to an agreement with such an applicant, express or implied, whereby he may receive any payment or other benefit, whether or not for services rendered, dependent or contingent upon the favorable approval of such applicant, petition or request.

3. In the county of Nassau the provisions of subdivisions one and two of this section shall also apply to a party officer. "Party Officer" shall mean any person holding any position or office, whether by election, appointment or otherwise, in any party as defined by subdivision four or section two of the election law.

4. Ownership of less than five per cent of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.

5. A person who knowingly and intentionally violates this section shall be guilty of a misdemeanor.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 1

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT 1 OF PART 1 OF FULL EAF

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

NYSDEC BROWNFIELD CLEANUP PROGRAM (BCP)

CERTIFICATE OF COMPLETION

CERTIFICATE HOLDER(S):

Name	Address
BUFFALO-MAPLE ROAD, LLC AND MAPLE ROAD LODGING, LLC	570 Delaware Avenue, Buffalo, NY 14202

BROWNFIELD CLEANUP AGREEMENT:

Application Approval: 8/26/12 **Agreement Execution:** 9/22/06 **Agreement Index No.:**B9-0724-06-07

Application Approval Amendment: 5/9/07 **Agreement Execution Amendment:** 6/18/07

SITE INFORMATION

Site No.: C915207 **Site Name:** 330 Maple Road Site
Site Owner: Buffalo-Maple Road, LLC
Street Address: 330 Maple Road
Municipality: Williamsville **County:** Erie **DEC Region:** 9
Site Size: 26.000 Acres
Tax Map Identification Number(s): Portion of 55.03-1-10
Percentage of site located in an EnZone: 0 > 49 %

A description of the property subject to this Certificate is attached as Exhibit A and a site survey is attached as Exhibit B.

CERTIFICATE ISSUANCE

This Certificate of Completion, hereinafter referred to as the "Certificate," is issued pursuant to Article 27, Title 14 of the New York State Environmental Conservation Law ("ECL").

This Certificate has been issued upon satisfaction of the Commissioner, following review by the Department of the final engineering report and data submitted pursuant to the Brownfield Site Cleanup Agreement, as well as any other relevant information regarding the Site, that the applicable remediation requirements set forth in the ECL have been or will be achieved in accordance with the time frames, if any, established in the remedial work plan.

The remedial program for the Site has achieved a cleanup level that would be consistent with the following categories of uses (actual site use is subject to local zoning requirements):

Allowable Uses under the BCP: Residential, Restricted-Residential, Commercial, and Industrial
Cleanup Track: Track 2: Restricted use with generic soil cleanup objectives

Tax Credit Provisions for Entities Taxable Under Article 9, 9-A, 32, and 33:
Site Preparation and On-Site Groundwater Remediation Credit Component Rate is 12 %.
Tangible Property Credit Component Rate is 12 %.

Tax Credit Provisions for Entities Taxable Under Article 22 & S Corporations:
Site Preparation and On-Site Groundwater Remediation Credit Component Rate is 10 %.
Tangible Property Credit Component Rate is 10 %.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

LIABILITY LIMITATION

Upon issuance of this Certificate of Completion, and subject to the terms and conditions set forth herein, the Certificate holder(s) shall be entitled to the liability limitation provided in ECL Section 27-1421. The liability limitation shall run with the land, extending to the Certificate holder's successors or assigns through acquisition of title to the Site and to a person who develops or otherwise occupies the Site, subject to certain limitations as set forth in ECL Section 27-1421. The liability limitation shall be subject to all rights reserved to the State by ECL Section 27-1421.2 and any other applicable provision of law.

CERTIFICATE TRANSFERABILITY

This Certificate may be transferred to the Certificate holder's successors or assigns upon transfer or sale of the Site as provided by ECL Section 27-1419.5 and 6NYCRR Part 375-1.9.

CERTIFICATE MODIFICATION/REVOCATION

This Certificate of Completion may be modified or revoked by the Commissioner following notice and an opportunity for a hearing in accordance with ECL Section 27-1419 and 6NYCRR Part 375-1.9(e) upon a finding that:

(1) either the Applicant or the Applicant's successors or assigns have failed to comply with the terms and conditions of the Brownfield Site Cleanup Agreement;

(2) the Applicant made a misrepresentation of a material fact tending to demonstrate that it was qualified as a Volunteer;

(3) either the Applicant or the Applicant's successors or assigns made a misrepresentation of a material fact tending to demonstrate that the cleanup levels identified in the Brownfield Site Cleanup Agreement were reached;

(4) there is good cause for such modification or revocation;

(5) either the Applicant or the Applicant's successors or assigns failed to manage the controls or monitoring in full compliance with the terms of the remedial program;

(6) the terms and conditions of the environmental easement have been intentionally violated or found to be not protective or enforceable.

The Certificate holder(s) (including its successors or assigns) shall have thirty (30) days within which to cure any deficiency or to seek a hearing. If the deficiency is not cured or a request for a hearing received within such 30-day period, the Certificate shall be deemed modified or vacated on the 31st day after the Department's notice.

Joseph J. Martens
Commissioner
New York State Department of Environmental Conservation

By: _____ Date: May 7, 2012
Robert W. Schick, P.E., Acting Director
Division of Environmental Remediation

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT 2 OF PART 1 OF FULL EAF

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

September 24, 2025

Joseph Bognanno
300 State Street
Rochester, NY 14614

Re: DEC
716 Sports
Town of Amherst, Erie County, NY
25PR08945

Dear Joseph Bognanno:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Sydney Snyder at the following email address:

Sydney.Snyder@parks.ny.gov

Sincerely,

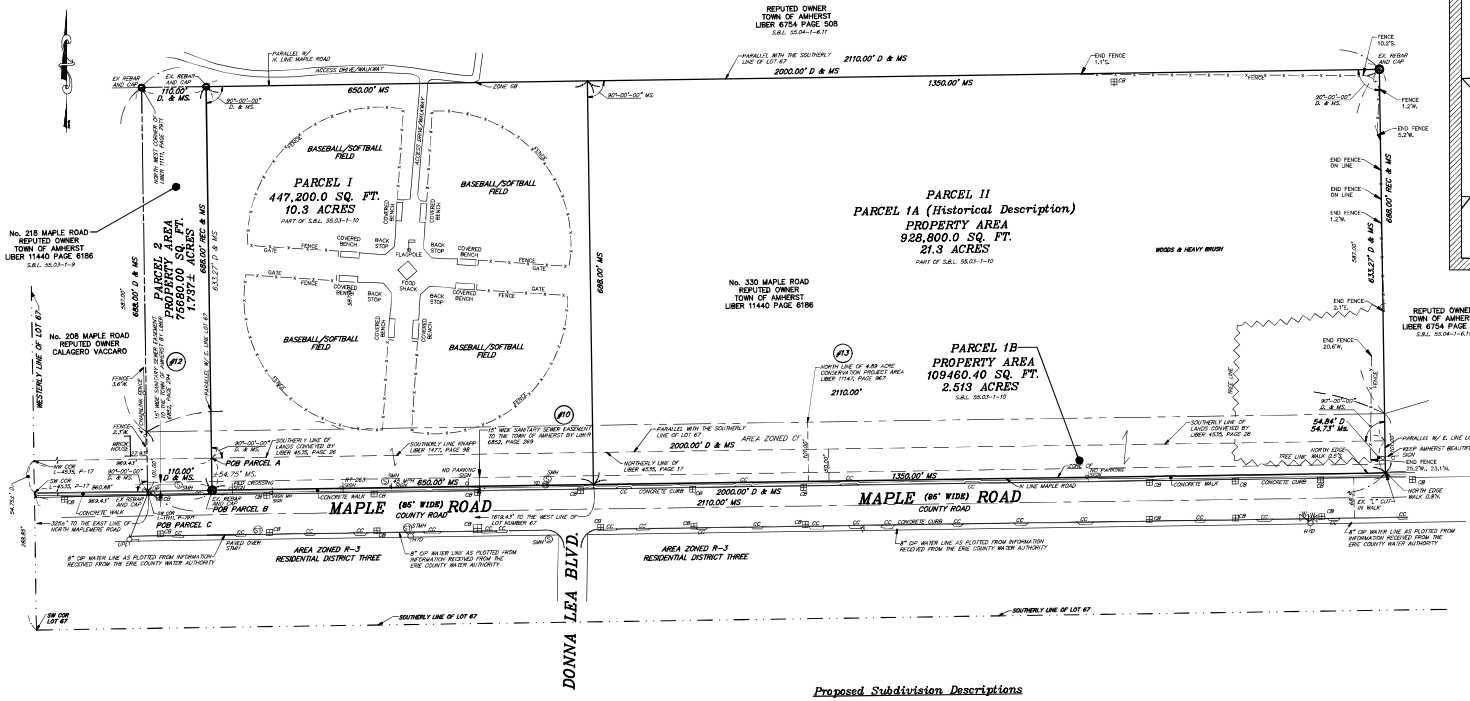
R. Daniel Mackay

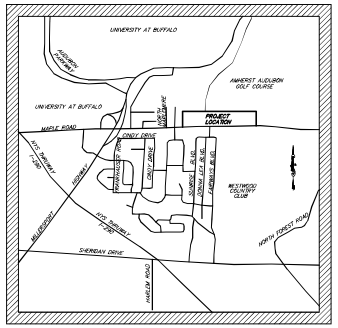
Deputy Commissioner for Historic Preservation
Division for Historic Preservation

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 2

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)





LOCATION MAP:
NOT TO SCALE

Historical Description

SCHEDULE A
REFERENCED FROM
STEWART TITLE INSURANCE COMPANY
TITLE NUMBER: 1903700-00008
DATED: 12/19/2023
REVISED: 12/18/2024

PARCEL "1A"
All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in a line drawn parallel with the southerly line of said Lot Number 67 and distant 288.85 feet northerly therefrom, as measured along the westerly line of said Lot Number 67, said point of beginning being 969.43 feet distant easterly from the westerly line of said Lot Number 67; running thence easterly along said line so drawn parallel with the southerly line of Lot Number 67, a distance of 2000 feet; running thence northerly at right angles, 633.27 feet to a point in a line drawn parallel with the southerly line of said Lot Number 67; running thence westerly along said parallel line, 2000 feet; running thence southerly in a straight line, 633.27 feet more or less to the place of beginning.

PARCEL "1B"
All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 969.43 feet distant easterly from the westerly line of said Lot Number 67; thence east along the north line of Maple Road, 2,000.00 feet to a point; thence north and parallel to the east line of Lot Number 67, a distance of 54.84 feet to the southerly line of lands conveyed to Henry Knapp by Deed recorded in the Erie County Clerk's Office in Liber 1477 of Deeds at page 98; thence westerly parallel with the south line of Lot Number 67 and along the southerly line of lands so conveyed to Henry Knapp, 2,000.00 feet; thence southerly parallel to the east line of Lot Number 67, 54.75± feet to the place of beginning.

PARCEL "2"
All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road distant 860.88 feet east from its intersection with he west line of Lot No. 67; thence proceeding east along the north line of Maple Road 110 feet; thence proceeding northerly 688 feet at an angle of 90° with the north line of Maple Road; thence westerly110 feet and parallel with the northerly line of Maple Road; thence southerly 688 feet to the northerly line of Maple Road, being the point or place of beginning.

EXCEPTIONS FROM TITLE

#10 15' wide easement granted by the Buffalo Shooting Club to Town of Amherst, dated November 1, 1962 and recorded January 9, 1963 in Liber 6852 of Deeds, page 269 (shown and plotted).

#11 Temporary Easement to the County of Erie for re-construction of Maple Road, Dtr 192, dated 4-2-1968, in Liber 7564 of Deeds at page 635, unable to plot with information from the record Liber & page, therefore temporally easement may or may-not affect subject premises.

#12 15' wide easement granted by Helen W. Jay to Town of Amherst, dated October 13, 1962 and recorded January, 9 1963 in Liber 6852 of Deeds, page 294. (shown and plotted).

#13 Declaration of restrictions made by Buffalo-Maple Road, LLC and Buffalo Anderson Associates, LLC dated July 1, 2008 and recorded in the Erie County Clerk's Office on July 21, 2008 in Liber 11147 of Deeds at page 967. (Conservation Project Area shown and plotted)

LEGEND

⊞	= CATCH BASIN	CB	= CATCH BASIN
○	= CLEANOUT	CC	= CURB CUT
		CO	= CLEANOUT
	= FIRE HYDRANT	D	= DEED
		E	= EAST
	= LAMP	EX.	= EXISTING
		HYD	= FIRE HYDRANT
	= PROPERTY CORNER MARKER (TYPE NOTED)	L	= LIBER
		MS	= MEASURED
		N	= NORTH
Ⓢ	= SANITARY MANHOLE	P	= PAGE
		REC	= RECORD
SD	= STORM MANHOLE	S	= SOUTH
		SMH	= SANITARY MANHOLE
	= SIGN (1 POST)	STMH	= STORM MANHOLE
		UP	= UTILITY POLE
	= SIGN (2 POSTS)	UPL	= UTILITY POLE W/ LIGHT
		W	= WEST
		WV	= WATER VALVE
	= UTILITY POLE	YD	= YARD DRAIN
	= UTILITY POLE W/ LIGHT		
@	= YARD DRAIN		
	= WATER VALVE		

Proposed Subdivision Descriptions

PARCEL "I"

All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 969.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 650.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 650.00 feet to the place of beginning, containing 10.3 acres of land, more or less.

Subject to a portion of a 101.00 foot wide Conservation Project Area, running parallel with and 101.00 feet north of the northerly line of said north line of Maple Road as recorded in the Erie County Clerk's Office in Liber 11147 of Deeds at page 967.

Subject to a portion of a 15 foot wide sanitary sewer easement to the Town of Amherst, running parallel with and 15 feet north of the northerly line of said Maple Road as recorded in the Erie County Clerk's Office in Liber 6852 of Deeds at page 269.

PARCEL "II"

All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 1619.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly at right angles and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 1350.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 1350.00 feet to the place of beginning, containing 21.3 acres of land, more or less.

Subject to a portion of a 101.00 foot wide Conservation Project Area, running parallel with and 101.00 feet north of the northerly line of said north line of Maple Road as recorded in the Erie County Clerk's Office in Liber 11147 of Deeds at page 967.

Subject to a portion of a 15 foot wide sanitary sewer easement to the Town of Amherst, running parallel with and 15 feet north of the northerly line of said Maple Road as recorded in the Erie County Clerk's Office in Liber 6852 of Deeds at page 269.

© COPYRIGHT 2025
THESE PLANS ARE THE PROPERTY OF KNAUF SHAW ENGINEERING, & SURVEY, DPC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF KNAUF SHAW ENGINEERING, & SURVEY, DPC.
NOTES:
1. UNAUTHORIZED ALTERATION OR ADDITION TO THESE PLANS IS A VIOLATION OF APPLICABLE LAWS.
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NO.	DESCRIPTION	DATE	BY
1	MAP OF PARCEL I AND PARCEL II	4-24-25	

Designed by:
Drawn by: JEW
Checked by: DMH
Dwg Scale: Hor: 1"=100' Vert:
Field Date: 12-13-2024
Office Date: 12-16-2024
Job No. 24MYT05.01
Book: 190
Page: 58
Map: 58503
File Name: 218 MAPLE-58503

KNAUF SHAW ENGINEERING & SURVEY, DPC
392 ROAD STREET, SUITE 401
Buffalo, New York 14202
P: 716.856.0599
F: 716.856.0581
WWW.KSHPC.COM

TOWN OF AMHERST COUNTY OF ERIE STATE OF NEW YORK

PARCEL SUBDIVISION SURVEY
PARCEL I & PARCEL II
BEING PART OF LOT 67, TOWNSHIP 12, RANGE 7
OF THE HOLLAND LAND COMPANYS SURVEY

SHEET REFERENCE NUMBER:
595[illegible]
Sheet 1

Surveys\24MYT05.01 - Hodgson Russ - 218 & 330 Maple Road - 59503\4 - Technical Data\CADD Drawings\Autocad\218 MAPLE-59503.dwg,

EXHIBIT 3

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 3

LEGAL DESCRIPTION OF POTION OF 330 MAPLE ROAD

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 1619.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly at right angles and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 1350.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 1350.00 feet to the place of beginning, containing 21.3 acres of land, more or less.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 4

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

FILED

JUL 02 2008

ERIE COUNTY
CLERK'S OFFICE

Box 104 JP

-FAF-

DECLARATION OF RESTRICTIONS

WHEREAS, the undersigned Buffalo-Maple Road LLC and Buffalo-Anderson Associates, LLC (hereinafter referred to as "Petitioners") are the owners of two parcels of land commonly known as 218 Maple Road and 330 Maple Road, respectively, located in the Town of Amherst, County of Erie and State of New York and more particularly described in Schedule "A" attached hereto (the "Property"); and

WHEREAS, Petitioners by their agent Benderson Development Company, LLC, applied to the Town of Amherst, New York Town Board for rezoning of the Property; and

WHEREAS, on the 2nd day of June, 2008, the said Amherst Town Board approved the requested rezonings from CF to GB, and R-3 to MFR-6 on the condition Petitioners, their successors and assigns, agree to restrict the Property as follows:

1. The creation of a 4.5 acre conservation project area, 101 feet in depth, fronting Maple Road on property described in Schedule "B"

2. The Brownfield Cleanup Program will be instituted in a manner that results in the project site being cleaned to New York State Department of Environmental Conservation residential standards

3. No single retail user shall be greater than 50,000 square feet in size.

4. A maximum building height limitation of 50 feet for any structure.

5. No freestanding drive-thru fast food restaurants.

6. No freestanding drive-thru pharmacies.

7. Petitioners, their successors and assigns agreed to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

NOW THEREFORE, Petitioners agree to abide by the above enumerated restrictions. The above restrictions shall be binding on the Petitioners, their successors and assigns and all parties claiming thereunder and shall run with the land and the above described restrictions can only be changed, modified or eliminated by a vote of the Town of Amherst Town Board. In the event, however, the Town of Amherst Town Board has subsequently passed the appropriate legislation requiring a vote of greater than a majority vote to change zoning restrictions, Petitioners, their successors and assigns and all parties claiming thereunder shall be bound by said greater than majority vote requirement.

::ODMA\PCDOCS\CDAMON\236\1

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

IN WITNESS WHEREOF, the undersigned has caused this Declaration to be executed on the 1st day of July, 2008.

BUFFALO-MAPLE ROAD, LLC

By: _____
David H. Baldauf, Manager

BUFFALO-ANDERSON ASSOCIATES, LLC

By: _____
David H. Baldauf, Manager

STATE OF FLORIDA }
}ss.:
COUNTY OF MANATEE }

On this 1st day of July, in the year 2008, before me, the undersigned, a Notary Public in and for said State, personally appeared DAVID H. BALDAUF, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

KIMBERLY J. TAYLOR
MY COMMISSION #DD344390
EXPIRES: AUG 05, 2008
Bonded through 1st State Insurance

_____
Notary Public

STATE OF FLORIDA }
}ss.:
COUNTY OF MANATEE }

On this 1st day of July, in the year 2008, before me, the undersigned, a Notary Public in and for said State, personally appeared DAVID H. BALDAUF personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

KIMBERLY J. TAYLOR
MY COMMISSION #DD344390
EXPIRES: AUG 05, 2008
Bonded through 1st State Insurance

_____
Notary Public

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

SCHEDULE A

The Town Board hereby amends its zoning map which is incorporated by reference in the town zoning code by amending from CF to GB the zoning of a portion of 330 Maple Road; legally described as follows:

All that tract or parcel of land situate in the Town of Amherst, County of Erie, State of New York, being part of Lot 67, Township 12, Range 7 of the Holland Land Company's Survey further described as follows:

Commencing at the southwest corner of lands conveyed by deed recorded in the Erie County Clerk's office in Liber 11111 of deeds at page 7971, said point being in the northerly line of Maple Road, distant 325 +/- east of the easterly line of North Maplemere Road;

Thence easterly along the northerly line of Maple Road a distance of 330.00 feet, said point being 220.0 feet east of the southwest corner of lands now or formerly conveyed to Buffalo Maple Road, LLC;

Thence northerly through lands now or formerly of said Buffalo Maple Road, LLC, at right angles a distance of 101.00 feet to the point or place of beginning;

Thence continuing northerly through lands now or formerly of said Buffalo Maple Road, LLC. A distance of 587.00 feet to a point in the northerly line of said Buffalo Maple Road, LLC.;

Thence easterly along the northerly line of said Buffalo Maple Road, LLC, at right angles parallel to the northerly line of Maple Road a distance of 1780.00 feet to the northeast corner of said Buffalo Maple Road, LLC.;

Thence southerly along the easterly line of said Buffalo Maple Road. LLC, at right angles at distance of 587.00 feet to a point;

Thence westerly through lands now or formerly of said Buffalo Maple Road, LLC. at right angles a distance of 1780.00 feet to the point or place of beginning containing 23.99 acres of land, more or less.

The Town Board further amends its Zoning Map, which is incorporated by reference in the Town of Amherst Zoning Code by amending from CF and R-3 to MFR-6 the zoning of a portion of 218 Maple Road and a portion of 330 Maple Road; legally described as follows:

All that tract or parcel of land situate in the Town of Amherst, County of Erie, State of New York, being part of Lot 67, Township 12, Range 7 of the Holland Land Company's Survey further described as follows:

Commencing at the southwest corner of lands conveyed by deed recorded in the Erie County Clerk's office in Liber 11111 of deeds at page 7971, said point being in the northerly line of Maple Road, distant 325 +/- east of the easterly line of North Maplemere Road;

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Thence easterly along the northerly line of Maple Road a distance of 330.00 feet, said point being 220.0 feet east of the southwest corner of lands now or formerly conveyed to Buffalo Maple Road, LLC.;

Thence northerly through lands now or formerly of said Buffalo Maple Road, LLC. at right angles a distance of 101.00 feet to the point or place of beginning;

Thence continuing northerly through lands now or formerly of said Buffalo Maple Road, LLC. a distance of 587.00 feet to a point in the northerly line of said Buffalo Maple Road, LLC.;

Thence westerly along the northerly line of Maple Road of said Liber 11111 of deeds at page 7971 and a portion of the northerly line of lands now or formally conveyed to Buffalo Maple Road, LLC. at right angles and parallel to Maple Road a distance of 330.00 Feet to a point;

Thence southerly through the said lands of Buffalo Maple Road, LLC. at right angles a distance of 587.00 feet to a point;

Thence easterly through lands now or formerly of said Buffalo Maple Road, LLC. at right angles a distance of 330.00 feet to the point or place of beginning containing 4.45 acres of land, more or less.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

SCHEDULE B

Notwithstanding the foregoing rezoning, there shall be created on the site a conservation project area described as follows:

All That Tract or Parcel of Land situate in the Town of Amherst, County of Erie, State of New York, being part of Lot 67, Township 12, Range 7 of the Holland Land Company's Survey further described as follows:

Beginning at the Southwest corner of lands conveyed by deed recorded in the Erie County Clerk's Office in Liber 11111 of Deeds at page 7971, said point being in the northerly line of Maple Road, distant 325 feet more or less east of the easterly line of North Maplemere Road;

Thence easterly along the northerly line of Maple Road a distance of 2,110 feet to the easterly line of lands now or formerly owned by Buffalo Shooting Club, Inc.;

Thence northerly at right angles and along the easterly line of said Buffalo Shooting Club, Inc. a distance of 101 feet to a point;

Thence westerly parallel with the northerly line of Maple Road a distance of 2,110 feet to the west line of said lands conveyed by deed recorded in the Erie County Clerk's Office in Liber 11111 of Deeds at page 7971;

Thence southerly along the westerly line of said lands conveyed by deed recorded in the Erie County Clerk's Office in Liber 11111 of Deeds at page 7971 a distance of 101 feet to the Point or Place of Beginning containing 4.89 acres of land, more or less.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Honorable Kathleen C. Hochul
County Clerk
Erie County
92 Franklin Street
Buffalo, NY 14202
(716) 858-8865

DATE:07/02/2008
TIME:04:07:25 PM
RECEIPT:556521

DAMON & MOREY

ITEM -01 781 04:07:25 PM
CTRL #:2008137304 BK/PG:D11147/0967
BUFFALO-MAPLE ROAD LLC
TOWN OF AMHERST

RECORDING FEE		55.00
MARKOFF FEE		0.00
Sub. Total	55.00	

AMOUNT DUE:	$55.00	
PAID CHECK:	$55.00	
Check #:0400		
TOTAL PAID:	$55.00	$55.00

REC BY:JOANNE
County Clerk
Have a nice day!

Honorable Kathleen C. Hochul
County Clerk
Erie County
92 Franklin Street
Buffalo, NY 14202
(716) 858-8865

DATE:07/02/2008
TIME:04:07:25 PM
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RECORDING FEE		55.00
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Sub. Total	55.00	

AMOUNT DUE:	$55.00	
PAID CHECK:	$55.00	
Check #:0400		
TOTAL PAID:	$55.00	$55.00

REC BY:JOANNE
County Clerk
Have a nice day!

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 5

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 5

APPLICATION FOR RELIEF OF ZONING CONDITIONS AND TO AMEND DECLARATION OF RESTRICTIONS – PORTION OF 330 MAPLE ROAD

Question 11(A): Description of the character of the proposed development:

Response to Question 11(A): The proposed project consists of the development of a portion of 330 Maple Road consisting of 21.3 acres of vacant land (the "Project Site") currently owned by the Town of Amherst as a state-of-the art sports complex that will include approximately 50,000 sq. ft. of retail space along with a five-story hotel and all related site improvements. A color copy of the Concept Plan depicting the conceptual layout of the proposed project is provided at Exhibit "7". An aerial photograph of the Project Site and the surrounding vicinity is provided at Exhibit "11" and a color excerpt of the Zoning Map is provided at Exhibit "12".

The Project Site is zoned General Business District ("GB") and Recreation Conservation District ("RC") pursuant to the Town's Zoning Map. The RC zoning only applies to the front portion of the Project Site along Maple Road that will consist of a conservation area consisting of greenspace and landscaping as depicted on the Concept Plan attached as Exhibit "7".

Question 11(B)(1): Rationale for rezoning request: 1. What was this site chosen?

Response to Question 11(B)(1): The Project Site is properly zoned for the proposed project and the proposed use is consistent with Figure 6 of the adopted Comprehensive Plan, which designates the portion of the Project Site to be developed as appropriate for "Commercial-Mixed-Use".

The Project Sponsor is requesting that the Town Board grant relief of zoning conditions imposed in connection with the previous rezoning of the Project Site for the previously approved but never constructed Gun Club Project. A copy of the Declaration of Restrictions recorded at the

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Erie County Clerk's Office on July 2, 2008 is provided at Exhibit "4" and a draft of the Amended Declaration of Restrictions is provided at Exhibit "8". The Project Sponsor is requesting that the previously imposed zoning conditions be rescinded and replaced with the following zoning conditions as set forth in the draft of the Amended Declaration of Restrictions:

1. There shall be a 101 ft. wide conservation area located along the Maple Road frontage of the Project Site ("Conservation Area"). There shall not be any buildings or parking spaces located in the Conservation Area. The only development permitted in the Conservation Area shall consist of driveway connections to Maple Road and utility improvements necessary to provide required utility services for the development of the Project Site.

2. The Declarant shall comply with the requirements imposed by the NYS Department of Environmental Conservation relative to the Brownfield Clean Up Program in connection with the development of the Project Site.

3. No freestanding drive-thru fast food restaurants shall be permitted on the Project Site.

4. No freestanding drlve-tbru pharmacies shall be permitted on the Project Site.

5. The Declarant agrees to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

Question 11(B)(2): Why cannot land be used with the existing zoning?

Response to Question 11(B)(2): The Project Site cannot be developed as proposed in manner that would comply with the zoning conditions previously imposed by the Town Board since Condition No. 3 restricted any single retail user to a maximum of 50,000 square feet in size and Condition No. 4 limited the maximum building height to 50 feet for any structure.

Question 11(B)(3): How will this rezoning impact surrounding properties?

Response to Question 11(B)(3): The requested relief of the zoning conditions previously imposed by the Town Board will not result in any potentially significant adverse impacts on surrounding

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

properties. A completed Part 1 of the Full Environmental Assessment Form as prepared pursuant to the State Environmental Quality Review Act ("SEQRA") is provided at Exhibit "1" of this Application. It is important to mention that the project will allow the Project Sponsor to receive the benefits associated with the previous environmental cleanup of contamination at the Project Site. A copy of the Certificate of Completion issued by the NYS Department of Environmental Conservation ("NYSDEC") dated May 7, 2012 is provided at Attachment "A" of the Part 1 of the Full EAF provided at Exhibit "1" of this Application. A copy of the No Impact Determination Letter issued by SHPO dated September 24, 2025 is provided at Attachment "B" of the Part 1 of the Full EAF provided at Exhibit "1" of this Application. Additionally, a copy of the Wetland Investigation Letter prepared by Scott Livinngstone of Earth Dimensions, Inc. is provided at Exhibit "10" of the Application.

The proposed project will also require Site Plan Approval from the Planning Board which will ensure compliance with the applicable standards for landscaping, lighting, stormwater management, etc.

Question 11(B)(4): How will this rezoning impact the school system?

Response to Question 11(B)(4): The proposed project will have very substantial positive impacts on the school district since it will generate substantial annual property taxes without creating any demand for educational services.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 6

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 6

APPLICATION FOR RELIEF OF ZONING CONDITIONS AND TO AMEND DECLARATION OF RESTRICTIONS – PORTION OF 330 MAPLE ROAD

Question 16(A)(1): State in detail why the proposed zoning is consistent with the adopted Town of Amherst Bicentennial Comprehensive Plan. Cite specific sections, maps and/or figures in the plan that support the proposed zoning at this location.

Response to Question 16(A)(1): The proposed project is consistent with the Town's planning goals and objectives as set forth in the adopted the Bicentennial Comprehensive Plan and other relevant planning documents which repeatedly encourage athletic facilities that will assist in promoting the health of the Town's residents. The Project Site is properly zoned for the proposed project and the proposed use is consistent with Figure 6 of the adopted Comprehensive Plan, which designates the portion of the Project Site to be developed as appropriate for "Commercial-Mixed-Use". A copy of Figure 6 of the Comprehensive Plan is provided at Exhibit "13".

Question 16(A)(2): Cite all text, map, and/or figures that must be amended to support the proposed zoning at this location and provide detailed suggested amendments.

Response to Question 16(A)(2): The proposed project is consistent with the planning goals and objectives contained in the Comprehensive Plan and as such there is not a need to amend the Comprehensive Plan to accommodate the proposed project.

Question 16(A)(3): State why the proposed zoning is consistent with intent and objectives (Sec. 1-2-2) of the Zoning Ordinance:

Response to Question 16(A)(3): Section 1-2-1 of the Zoning Code is titled "Purpose" and it states as follows:

> *"The purpose of this Zoning Ordinance and the intent of the legislative authority in its adoption is to promote the environment of the town and its public health, safety, convenience, comfort, prosperity and the general welfare by regulating the use of*

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

buildings, other structures and land for residences, open space, public facilities, business, services, industry or other purposes; by regulating and restricting the bulk, height, design, building coverage and location of structures; by regulating and limiting population density; and for the aforesaid purposes, to divide the land within the limits of the town into districts of such number and dimensions generally consistent with the policies of the Comprehensive Plan and to provide procedures for the administration and amendment of said Zoning Ordinance."

The requested for relief of zoning conditions previously imposed by the Town Board to accommodate the proposed project on the Project Site is consistent with the "Purpose" of the Zoning Code. Section 1-2-2 of the Zoning Code sets forth the objectives of the Zoning Code. This section of the Zoning Code lists thirteen objectives that are discussed below as follows:

A. To protect the character and values of residential, institutional and public uses, business, commercial and manufacturing uses and to insure their orderly and beneficial development;

Response: The project represents orderly and beneficial development that will provide very substantial benefits to the Town and its residents.

B. To provide adequate open spaces for light, air and outdoor uses to include public, common and private open space areas;

Response: The proposed project will not be inconsistent with this objective.

C. To prevent overcrowding of land;

Response: The proposed project will not result in the overcrowding of land.

D. To prevent excessive concentration of population and to prevent spare and uncoordinated development;

Response: The project will not result in excessive concentration of population and the project represents an example of coordinated development.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

E. To regulate and control the location and spacing of buildings on the lot and in relation to the surrounding property generally consistent with the policies of the Comprehensive Plan.

Response: The responses to the Questions in Section 16 provided above sets forth the reasons the proposed rezoning is consistent with the recommended land use and the policies contained in the adopted Comprehensive Plan.

F. To protect persons and property from damage and injury due to fire or flood;

Response: The Project Site is not located in a regulated floodway or 100 yr. floodplain. The Site Plan Application review process will trigger the need for an Engineer's Report to be prepared by a licensed engineer to be prepared for review and approval by the Town's Engineering Department. The project will not increase the likelihood of damage and injury due to fire and flood. The proposed buildings will be constructed per the stringent requirements of the NYS Building Code including the fire safety standards contained therein.

G. To preserve and protect significant natural features and vegetation, thereby preventing ecological damage and visual blight which occur when those features or vegetation are eliminated or substantially altered to serve development purposes only.

Response: The project will not be inconsistent with this objective. There are not significant natural features located on the Project Site. The Project Site has been designated for commercial development for 18 years.

H. To assure that structure and land use arrangements are aesthetically harmonious with nearby areas and structures.

Response: The development of the Project Site in a manner consistent with the Concept Plan submitted with this Application will be aesthetically harmonious with nearby areas and structures.[1] The layout reflects a deliberate effort locate the athletic facility as far away as practicable from the Maple Road Right-of-Way, since there are existing single-family homes on the south side of Maple Road.

---

[1] A reduced-size copy of the Concept Plan is attached as Exhibit "7".

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

I. To regulate the location of buildings and intensity of uses in relation to streets according to plans so as to cause the least interference with and be damaged least by traffic movements and hence result in lessened street congestion and improved public safety.

Response: The proposed project will have a driveway connection to Maple Road, which is an Erie County Highway, and a secondary gated emergency access driveway for emergency access per the requirements of Appendix D of the NYS Fire Code.

J. To establish zoning patterns that insure economical extensions for sewers, water supply waste disposal and other public utilities, as well as development of recreation, schools and other public facilities;

Response: The Project Site has access to sanitary sewer and water lines as well as necessary public utilities to service the proposed project.

K. To guide the future development of the town so as to being the gradual conformity of land, structures and uses generally consistent with the policies of the Comprehensive Plan.

Response: The project is consistent with this objective since the proposed use is consistent with the policies contained in the Comprehensive Plan.

L. To accomplish the specific intents and goals set forth in the introduction to the respective sections.

Response: The proposed project is consistent with this objective.

M. To protect the community from visual pollution resulting from the unregulated use of signs and other advertising devices.

Response: The proposed project will not be inconsistent with this objective.

Question 16(C): Compatibility with the present zoning and conforming uses of nearby property and with the character of the neighborhood:

Response to Question 16(C): The Project Sponsor is not seeking to amend the existing zoning classifications of the Project Site.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Question 16(D): **Suitability of the subject property for uses permitted by the current versus the proposed district:**

Response to Question 16(D): The Project Site is properly zoned so this this question does not apply.

Question 16(E): **Whether the proposed change tends to improve the balance of uses, or meets a specific demand in the Town:**

Response to Question 16(D): The proposed project will have positive impacts on the balance of uses in the Town by providing a state-of-the-art athletic facility that will offer a broad range of services that are not currently available in the Town of Amherst or any other community in Western New York.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 7

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 8

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

LOCAL LAW NO. _____-2025

TOWN OF AMHERST
COUNTY OF ERIE, STATE OF NEW YORK

A LOCAL LAW AMENDING CHAPTER 203 OF THE TOWN OF AMHERST CODE, KNOWN AS THE ZONING ORDINANCE FOR RELIEF OF REZONING CONDITIONS IMPOSED IN CONNECTION WITH A REZONING DECISION FOR 330 MAPLE ROAD AND TO AMEND DECLARATION OF RESTRICTIONS AND TO AMEND THE ZONING MAP ACCORDINGLY.

Be it enacted by the Town Board of the Town of Amherst as follows:

Section 1. Title.

This Local Law shall be referred to as, "A Local Law Amending Chapter 203 of Town of Amherst Code, Known As The Zoning Ordinance for Relief of Rezoning Conditions Imposed in connection with a Rezoning Decision for 330 Maple Road and to Amend Declaration of Restrictions."

Section 2. Legislative Findings and Intent.

The Town Board of the Town of Amherst finds that an application for relief of rezoning conditions imposed in connection with a rezoning decision and to amend declaration of restrictions has been filed and is in proper order. The Town Board further finds that the request including the rezoning is consistent with the Comprehensive Plan.

Section 3. Amherst Zoning Map/Relief of Rezoning Conditions.

The Town Board hereby approves application for relief of rezoning conditions imposed in connection with a rezoning decision and to amend declaration of restrictions, subject to any conditions imposed by the authorizing resolution. The adoption of this Local Law eliminates the zoning conditions imposed by the Town Board in connection with the rezoning of the Project Site and imposes the following conditions which shall be subject to an Amended Declaration of Restrictions to be recorded at the Erie County Clerk's Office:

1. There shall be a 101 ft. wide conservation area located along the Maple Road frontage of the Project Site ("Conservation Area"). There shall not be any buildings or parking spaces located in the Conservation Area. The only development permitted in the Conservation Area shall consist of driveway connections to Maple Road and utility improvements necessary to provide required utility services for the development of the Project Site.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2. The Declarant shall comply with the requirements imposed by the NYS Department of Environmental Conservation relative to the Brownfield Clean Up Program in connection with the development of the Project Site.

3. No freestanding drive-thru fast food restaurants shall be permitted on the Project Site.

4. No freestanding drlve-tbru pharmacies shall be permitted on the Project Site.

5. The Declarant agrees to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

The property for which this local law applies to consists of a portion of 330 Maple Road, legally described as follows:

PORTION OF 330 MAPLE ROAD:

All that tract or parcel of land, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 1619.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly at right angles and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 1350.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 1350.00 feet to the place of beginning, containing 21.3 acres of land, more or less.

Section 4. Validity.

This Local Law is adopted under the authority granted to the Town Board of the Town of Amherst pursuant to §§10(1)(ii)(a)(12), 20 and 27 of the Municipal Home Rule Law and §265 of the Town Law of the State of New York.

The invalidity of any provision of this Local Law shall not affect the validity of any other provision of this Local Law that can be given effect without such invalid provision.

Section 5. Effective Date.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

This Local Law shall take effect immediately when it is filed in the Office of the Secretary of State in accordance with Section 27 of the Municipal Home Rule Law and published pursuant to Sections 130 & 133 of the Town Law and Chapter 28 of the Code of the Town of Amherst.

Francina J. Spoth
Town Clerk
Town of Amherst
County of Erie, State of New York

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 9

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

AMENDED DECLARATION OF RESTRICTIONS

THIS AMENDED DECLARATION OF RESTRICTIONS ("***Amended Declaration***") is made as of the ___ day of _____, 2025 by **716 SPORTS COMPLEX, LLC**, a limited liability company formed pursuant to the laws of the State of New York, with an address of _____ under facts and circumstances summarized by the following recitals:

WHEREAS, Declarant is the owner of real property consisting of a portion of 330 Maple Road in the Town of Amherst as described in the attached Scheule "1" (the "***Project Site***");

WHEREAS, during its meeting held on _____ __, 2025, the Town of Amherst Town Board ("***Town Board***") adopted Resolution Number 2025-____ ("***Resolution***") for the purpose of granting relief for zoning conditions imposed by the Town Board on June 2, 2008 in connection with the rezoning of 218 and 330 Maple Road from CF to GB and R--3 to MFR-6, subject to conditions as set forth in the Resolution;

WHEREAS, this Amended Declaration has been executed by Declarant for the purpose of modifying and amending the Declaration of Restrictions as it pertain to the Project Site that was recorded at the Erie County Clerk's Office on June 2, 2008 at Liber 11147 of Deeds at Page 0967.

WHEREAS, the content of this Amended Declaration has been reviewed and approved by the Amherst Town Attorney's Office and the Town's Zoning Enforcement Officer.

NOW, THEREFORE, in exchange for good and valuable consideration the sufficiency of which is acknowledged, the Declarant, its successors and assigns, agrees to restrict the future use of the real property described in the attached Schedule "1" as follows:

1. There shall be a 101 ft. wide conservation area located along the Maple Road frontage of the Project Site ("Conservation Area"). There shall not be any buildings or parking spaces located in the Conservation Area. The only development permitted in the Conservation Area shall consist of driveway connections to Maple Road and utility improvements necessary to provide required utility services for the development of the Project Site.

2. The Declarant shall comply with the requirements imposed by the NYS Department of Environmental Conservation relative to the Brownfield Clean Up Program in connection with the development of the Project Site.

3. No freestanding drive-thru fast food restaurants shall be permitted on the Project Site.

4. No freestanding drlve-tbru pharmacies shall be permitted on the Project Site.

5. The Declarant agrees to be bound by all provisions of the Adult Use Code of the Town of Amherst as currently adopted or as amended or modified in the future. However, this provision shall not prohibit the operation of a bookstore or video store, which carries a broad inventory of books or videos or other materials directed toward the interest of the general public.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

The restrictions being established shall be binding on all parties claiming thereunder and shall run and touch the Project Site except that the recorded restrictions can be changed, modified or eliminated by a majority vote of the Town Board.

IN WITNESS WHEREOF, the parties hereto have the full legal authority to execute this Amended Declaration of Restrictions.

716 SPORTS COMPLEX, LLC

By: _____

Title: _____

Print Name: _____

STATE OF NEW YORK)
ss.:
COUNTY OF ERIE)

On this __ day of _____, 202_, before me, the undersigned, a notary public in and for said state, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to the be the individual whose name is subscribed to within this instrument and acknowledged to me that he executed the same in his capacity, that they by his signature on the instrument, the individual or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

SCHEDULE 1

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Amherst, County of Erie and State of New York, being part of Lot Number 67, Township 12, Range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a point in the north line of Maple Road, 1619.43 feet distant easterly from the westerly line of said Lot Number 67; thence northerly at right angles and parallel with the east line of Said Lot Number 67, a distance of 688.00 feet; thence easterly at right angles and parallel with the southerly line of said Lot Number 67 also being parallel with the north line of Maple Road, a distance of 1350.00 feet; thence southerly at right angles and parallel with the east line of said Lot Number 67, a distance of 688.00 feet to the said north line of Maple Road; thence westerly along the northerly line of Maple Road, a distance of 1350.00 feet to the place of beginning, containing 21.3 acres of land, more or less.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 10

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

SP 2021-18
330 Maple Rd

EARTH DIMENSIONS, INC.
* Soil & Hydrogeologic Investigations * Wetland Delineations
1091 Jamison Road, Elma NY 14059
(716) 655-1717 * Fax (716) 655-2915 www.earthdimensions.com

August 12, 2021

W13J06d

Jeffrey Burroughs, PE
Town of Amherst Engineering Department
1100 North Forest Road
Williamsville, New York 14221

RECEIVED
AUG 13 2021
TOWN OF AMHERST
PLANNING DEPT.

Re: Preliminary Wetland Investigation – 31.5± acres
330 Maple Road (SBL# 55.03-1-10)
Town of Amherst, Erie County, New York

Dear Mr. Burroughs:

Earth Dimensions, Inc. (EDI) has completed a preliminary wetland investigation at the above referenced site for the purpose of identifying potential regulated wetlands and waterways. The site investigation was conducted on August 11, 2021. As depicted on the attached Preliminary Wetlands Map, EDI identified approximately 0.81± acre of wetland as defined by the U.S. Army Corps of Engineers (USACE) wetland delineation manuals. We believe the depicted wetlands are not regulated under the currently applicable Navigable Waters Protection Rule although a detailed wetland delineation would need to be completed and submitted to USACE with a request for a Jurisdictional Determination in order to confirm the non-jurisdictional status, should impacts be proposed to these features.

The New York State Department of Environmental Conservation (NYSDEC) On-line Resource Mapper (attached) does not depict any state regulated wetlands within or adjacent to the subject property. NYSDEC, thus, has no jurisdiction over any wetland within the project site.

Based on this site investigation, it is our professional opinion that as long as any proposed development avoids impacts to the depicted wetland, no further action is required in order to move forward with development. If impacts to the depicted wetland are proposed, a detailed wetland delineation is required to be completed and submitted to USACE along with a request for an Approved Jurisdictional Determination.

If you have any questions, please contact our office at (716) 655-1717 or email slivingstone@earthdimensions.com.

Very truly yours,
Earth Dimensions, Inc.

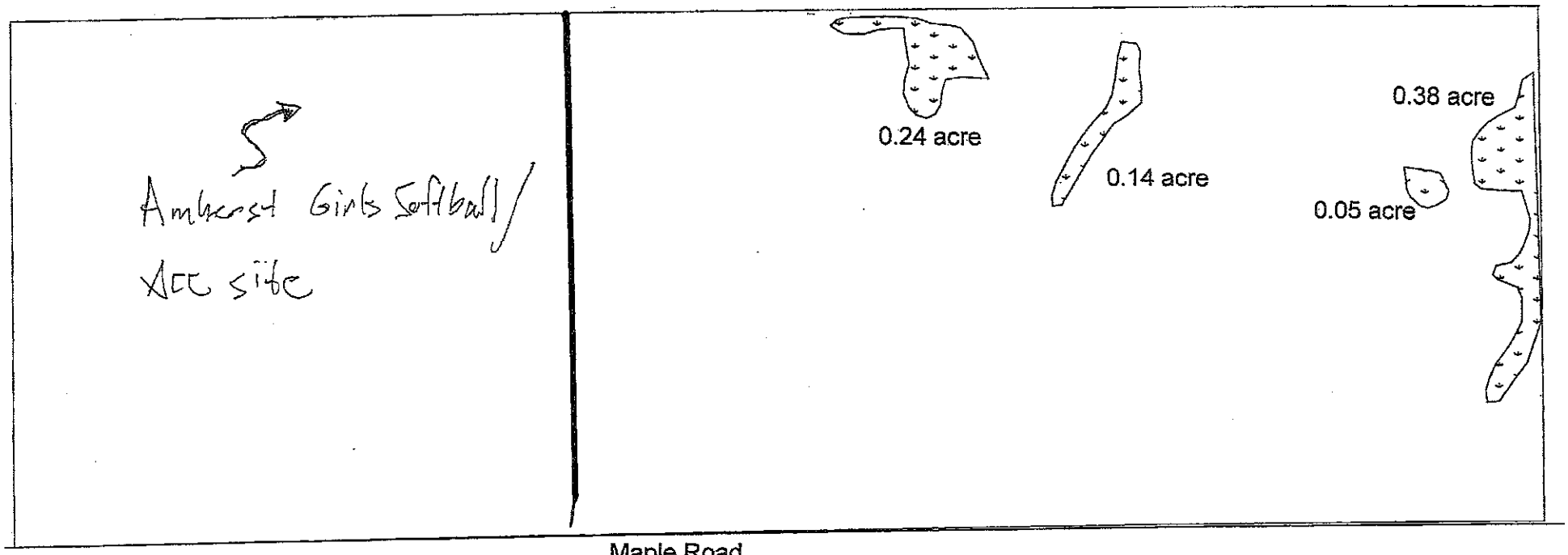
Scott J. Livingstone
Wetlands Operations Manager

Encl.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

W13J06d

300 Maple Road - Amherst, NY



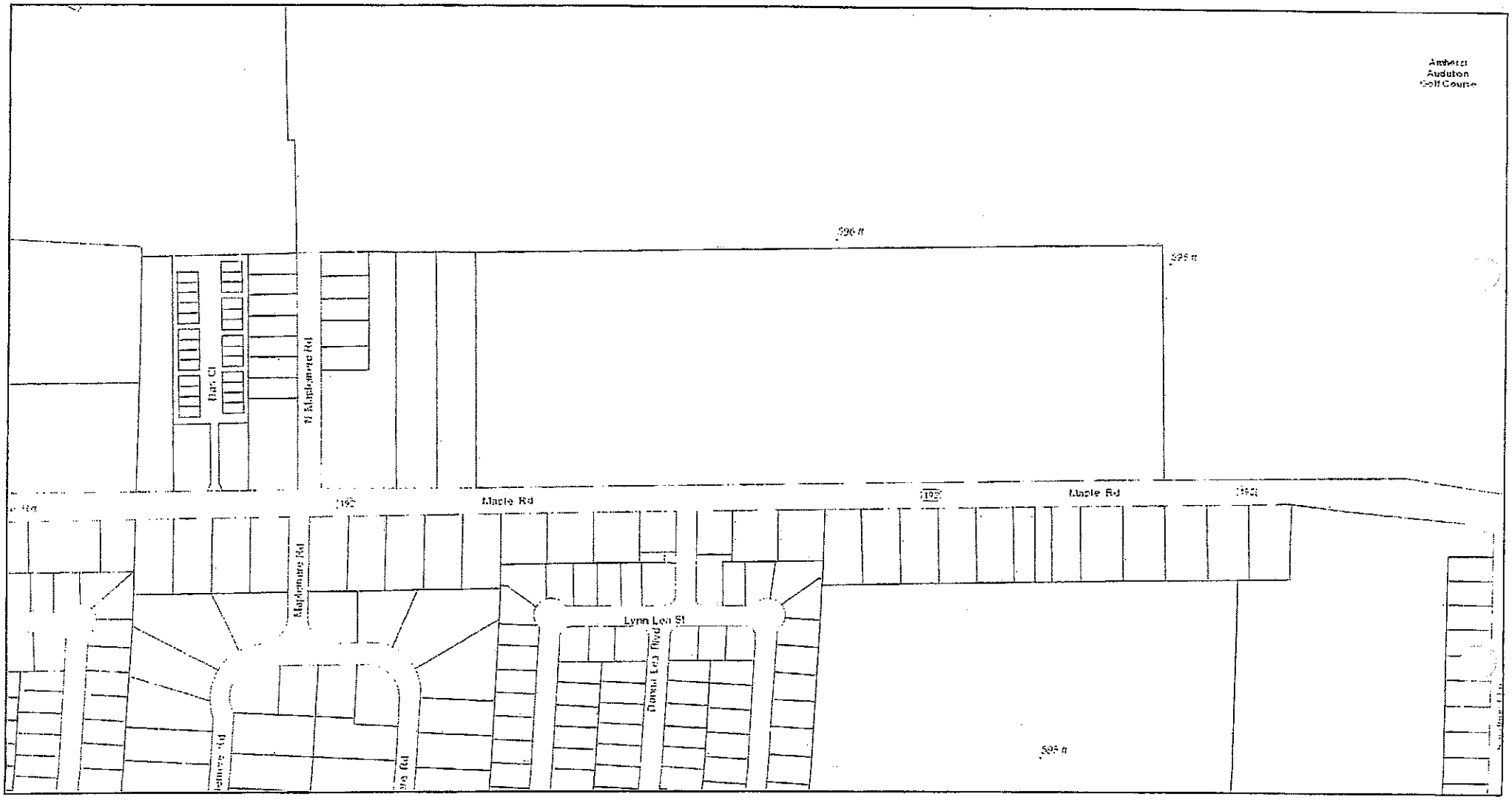
Total Wetland: 0.81 acre

Scale: 0 100' 200'

8/12/2021

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Environmental Resource Mapper



August 11, 2021

1:4,514

0 0.04 0.08 0.16 mi

0 0.05 0.1 0.2 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordn Survey, Esri Japan, METI, Esri China (Hong Kong), OpenStreetMap contributors, and the GIS User Community

NYS Department of Environmental Conserv
ial docu

EXHIBIT 11

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ArcGIS Web Map



10/2/2025, 8:54:29 AM

Town Boundary

Parcels

1:4,514

0 0.04 0.07 0.15 mi

0 0.05 0.1 0.2 km

Maxar

ArcGIS Web AppBuilder

Packet Pg. 889

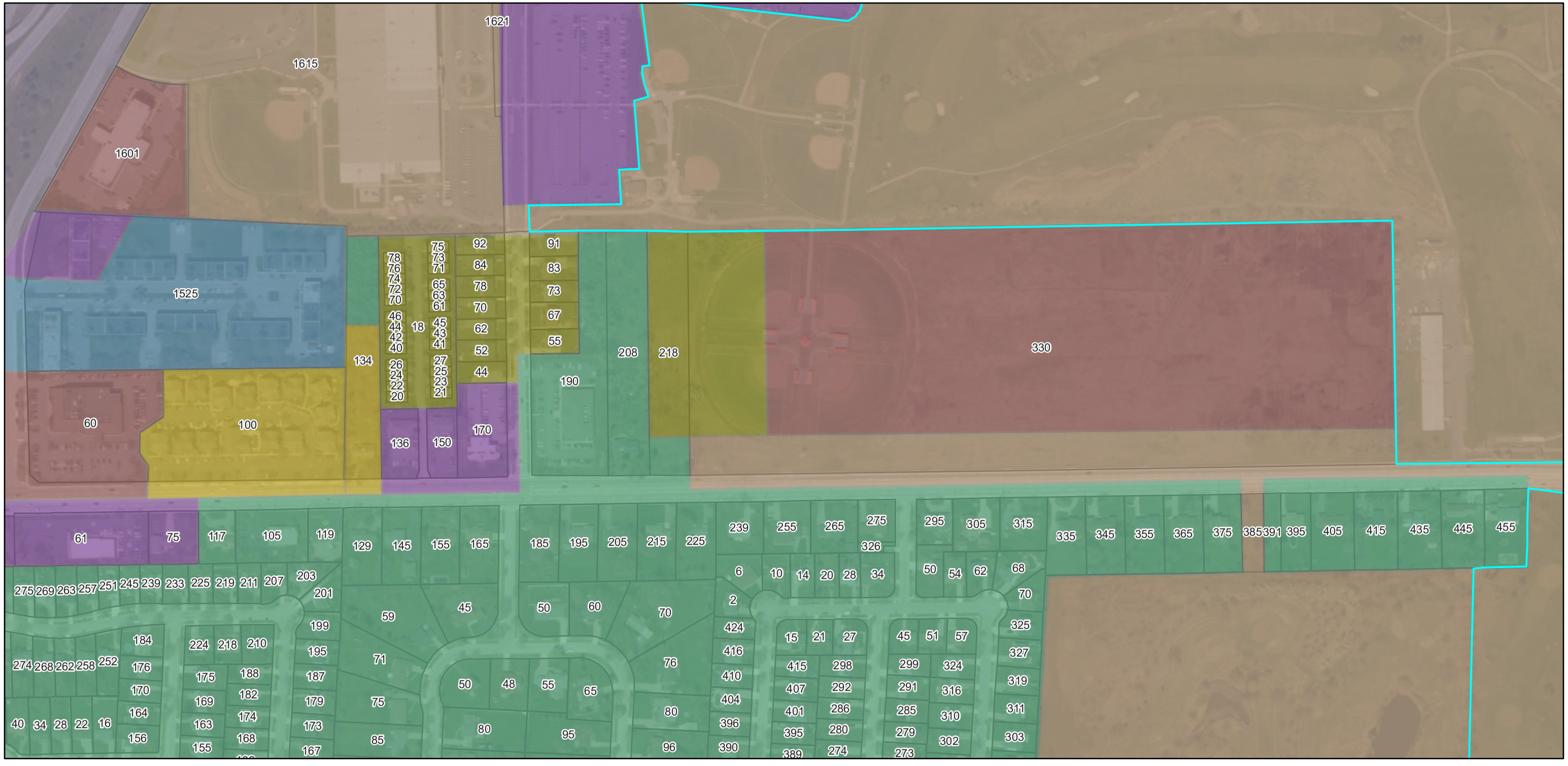
2.c

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 12

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ArcGIS Web Map



10/2/2025, 8:57:46 AM

Zoning

- MFR-5
- GB
- R-3
- OB
- R-4
- RC
- NB
- MFR-6
- SC-3
- SUNYUB
- Town Boundary

Parcels

1:4,514

0 0.04 0.07 0.15 mi

0 0.05 0.1 0.2 km

Maxar

ArcGIS Web AppBuilder

:es

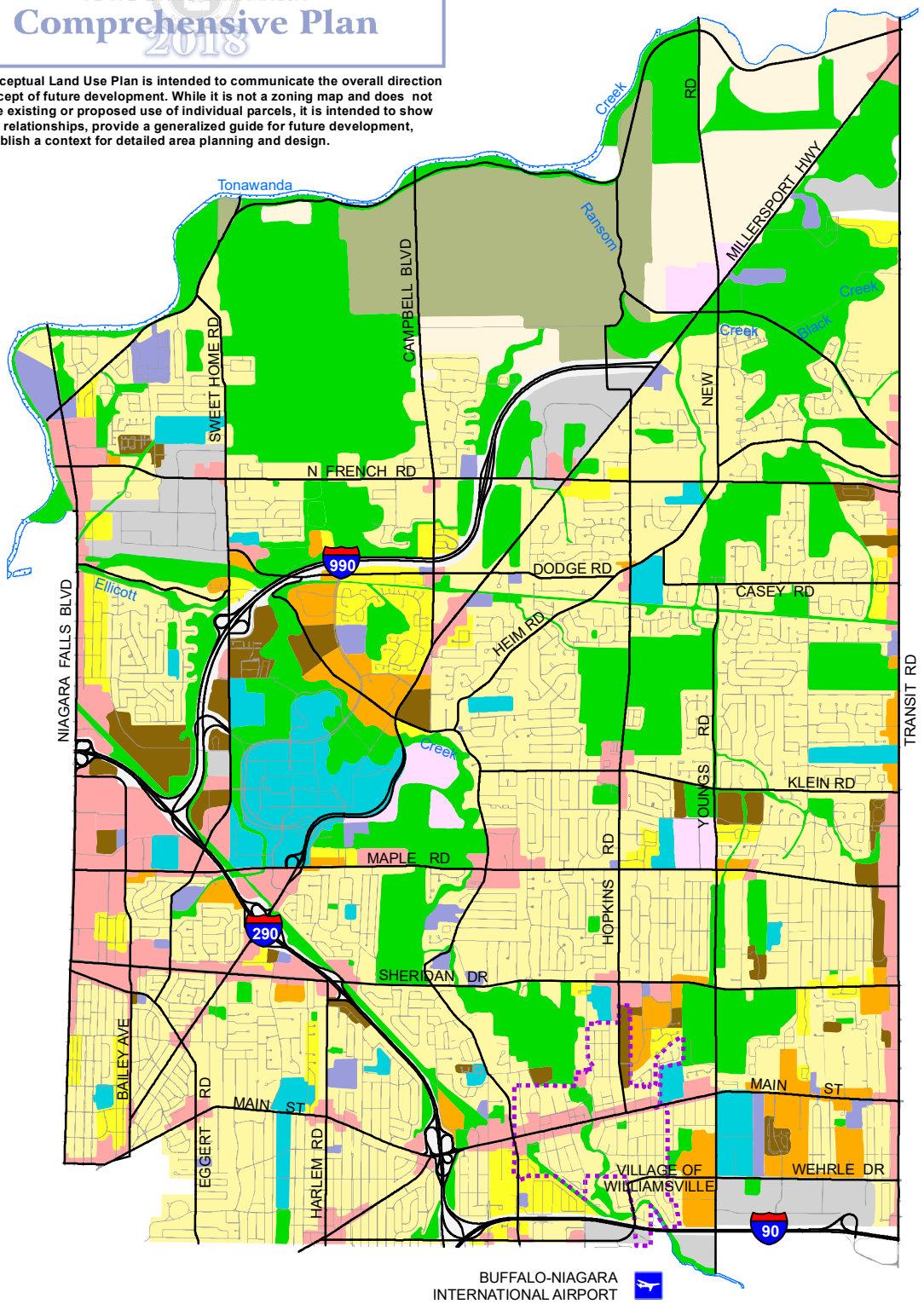
EXHIBIT 13

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Town of Amherst Bicentennial Comprehensive Plan

1818 2018

The Conceptual Land Use Plan is intended to communicate the overall direction and concept of future development. While it is not a zoning map and does not show the existing or proposed use of individual parcels, it is intended to show land use relationships, provide a generalized guide for future development, and establish a context for detailed area planning and design.



Conceptual Land Use Plan

- Rural Residential
- Single Family Residential
- Mixed Residential
- Medium Residential
- Commercial / Mixed Use*
- Special Use Center
- Commercial - Office
- Industrial - Office
- Community Facilities
- Educational Campus
- Recreation, Open Space & Greenways
- Agriculture
- Transportation
- Surface Water
- Village of Williamsville Boundary

* See Map Figure 6-A for Additional Designations

SOURCE NOTES:

Original Source Data Provided by the Town of Amherst Information Technology Department, URS Corporation and Wallace Roberts & Todd, LLC

Map Compiled by the Town of Amherst Planning Department

Date: December 2020

N

0 0.25 0.5 0.75 1 1.25

Miles

FIGURE 6

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

EXHIBIT 14

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

TOWN OF AMHERST

TOWN CLERK'S OFFICE

5583 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

Ashley Brownson
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 2025-849 "716 Sports Complex, LLC" is a true and exact copy of the Resolution enacted by the Town Board at its meeting on September 30, 2025.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of said Town of Amherst this 2nd day of October, 2025.

Francina J. Spoth
Town Clerk
Town of Amherst, Erie County, NY

Sworn to before me
This 2nd day of October, 2025

Notary Public

TIMOTHY J. KOLLER
No. 01KO6263885
Notary Public, State of New York
Qualified in Erie County
My Commission Expires 06/11/20 28

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Amherst Town Board
5583 Main Street
Williamsville, NY 14221
www.amherst.ny.us

Francina J. Spoth
Town Clerk

Meeting: 09/30/25 07:00 PM
Department: Town Clerk
Initiated by: **Timothy Koller**
Co-Sponsored by:

DOC ID: 30969 **RESOLUTION 2025-849** **ADOPTED**

716 Sports Complex, LLC

Suspension to Town Board Agenda of September 30, 2025

TO: The Honorable Town Board

FROM: Brian J. Kulpa, Town Supervisor

DATE: September 30, 2025

RE: 716 Sports Complex, LLC

Please authorize the Supervisor to sign an authorization letter for the purpose of allowing 716 Sports Complex, LLC and/or its consultants to file land use applications for the purpose of a proposed project to be developed on land owned by the Town of Amherst consisting of a portion of 330 Maple Road (SBL 55.03-1-10).

9/30/2025
A motion to approve was made by Supervisor Kulpa, seconded by Councilmember Berger and unanimously approved 4-0.

FINANCIAL IMPACT:

n/a

RESULT:	**ADOPTED [UNANIMOUS]**
MOVER:	Brian J. Kulpa, Supervisor
SECONDER:	Jacqualine Berger, Councilmember
AYES:	Kulpa, Lavin, Berger, Szukala
ABSENT:	Marinucci

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: 716 Sports Complex and Hotel		
Project Location (describe, and attach a general location map): Portion of 330 Maple Road [SBL No. 55.03-1-10]		
Brief Description of Proposed Action (include purpose or need): The proposed project consists of two (2) indoor dome sports complexes, each 275 ft x 500 ft totalling 275,000 sf, a 2-story, 50,000 sf commerical/retail building and a 75,000 sf five (5) story hotel. Development includes associated parking, internal roadways, pedestrian walkways, lighting, landscaping, and utility infrastructure. The action has been defined broadly to include all proposed site improvements and all required discretionary approvals and permits needed from municipal boards of the Town of Amherst and involved agencies. The proposed action is a Type I action pursuant to SEQRA and as such the Project Sponsor is requesting that the Town of Amherst conduct a coordinated environmental review pursuant to SEQRA.		
Name of Applicant/Sponsor: 716 Sports Complex, LLC c/o Sean Hopkins, Esq.	Telephone: 716.510-4338 E-Mail: shopkins@hsmlegal.com	
Address: 35 California Drive, Suite 100		
City/PO: Williamsville	State: NY	Zip Code: 14221
Project Contact (if not same as sponsor; give name and title/role):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Town of Amherst	Telephone: E-Mail:	
Address: 5583 Main Street		
City/PO: Williamsville	State: NY	Zip Code: 14221

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	Application for Relief of Zoning Conditions	October 2, 2025
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Site Plan Approval	October 2025
c. City, Town or Village Zoning Board of Appeals ☑Yes ☐No	Zoning Board of Appeals - Area Variances	October 2025
d. Other local agencies ☑Yes ☐No	IDA - PILOT	To be Determined
e. County agencies ☑Yes ☐No	ECDPW - Highway Work Permit	To be Determined
f. Regional agencies ☐Yes ☐No		
g. State agencies ☑Yes ☐No	NYSDEC - SPDES and DSCA	October 2025
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):

Remediaton Sites:C915207, 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: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No

If Yes, what is the zoning classification(s) including any applicable overlay district?

A 100-foot width of property frontage along Maple Road is zoned Recreation Conservation District (RC), while the remainder of the property is General Business (GB).

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Amherst Central School District

b. What police or other public protection forces serve the project site?

Town of Amherst Police Department

c. Which fire protection and emergency medical services serve the project site?

Volunteer Fire Department

d. What parks serve the project site?

There are various parks that are accessible from the project site.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Sports complex, retail space and hotel

b. a. Total acreage of the site of the proposed action? 21.3 acres

b. Total acreage to be physically disturbed? 19.0 acres

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 21.3 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☑ Yes ☐ No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated 2
- Anticipated commencement date of phase 1 (including demolition) March month 2026 year
- Anticipated completion date of final phase Sep month 2027 year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

Phase 1 includes the domes and commercial buildings, scheduled to be substantially complete by May of 2027. The hotel will be developed in Phase 2 and constructed by the hotel developer under a separate project schedule, unknown at this time.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple 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				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑Yes ☐No

If Yes,

i. Total number of structures 4

ii. Dimensions (in feet) of largest proposed structure: 100' height; 275' width; and 500' length

iii. Approximate extent of building space to be heated or cooled: 400,000 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑Yes ☐No

If Yes,

i. Purpose of the impoundment: Stormwater management

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑Other specify: Runoff from impervious surfaces

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: .57 acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐Yes ☑No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i .What is the purpose of the excavation or dredging?

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards):
- Over what duration of time?

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No
If yes, describe.

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☐No

ix. Summarize site reclamation goals and plan:

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☑Yes ☐No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): USACE Non-Jurisdictional wetlands mapped by Earth Dimensions, Inc. dated August 12, 2021

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple 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: 44750 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑ Yes ☐ No
If Yes:

- Name of district or service area: Erie County Water Authority
- Does the existing public water supply have capacity to serve the proposal? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No
- Do existing lines serve the project site? ☑ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☑ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 44750 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 Sewer Treatment Plant
- Name of district: Town of Amherst Consolidated 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: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑ Yes ☐ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or 15.3 acres (impervious surface)

_____ Square feet or 21.3 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)?

Directed to on-site stormwater management facility for treatment and detention then directed to existing off-site underground municial stormwater main on Maple Road.

- 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: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple 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): 0

iii. Parking spaces: Existing 0 Proposed 500 Net increase/decrease +500

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: New full movement driveway on Maple Road

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: TBD

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): Local grid

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7:00 to 5:00
- Saturday: As needed
- Sunday: Not Applicable
- Holidays: Not Applicable

ii. During Operations:

- Monday - Friday: 7:00 to 10:00
- Saturday: 7:00 to 10:00
- Sunday: 7:00 to 10:00
- Holidays: TBD

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple 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:

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:

Dark sky compliant lighting that complies with the requirements contained in the Zoning Code.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: TBD tons per TBD (unit of time)
- Operation : TBD tons per TBD (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: TBD. Recycle Materials to the greatest extent possible
- Operation: TBD

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: TBD
- Operation:

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple 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): Athletic fields and golf course

ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0	15.3	+15.3
• Forested	1.7	0	-1.7
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	19.6	6	-13.6
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____	21.3	21.3	0

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No
If Yes,
i. Identify Facilities:

_____
_____

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): C915207
☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____
The contamination on the Project Site has previously been remediated per the NYSDEC BCP Program requirements. A copy of the Certificate of Completion issued by the NYSDEC on May 7, 2012 is provided at Attachment "A".

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): C915207, C915291

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____
_____

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2.c

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? 8 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:

Od - Odessa silt loam (D)	79.0 %
SaA - Schoharie silt loam (D)	21.0 %
	%

d. What is the average depth to the water table on the project site? Average: 1.75 feet

e. Drainage status of project site soils:

☐ Well Drained:	0 % of site
☐ Moderately Well Drained:	0 % of site
☑ Poorly Drained	100 % of site

f. Approximate proportion of proposed action site with slopes:

☑ 0-10%:	100 % of site
☐ 10-15%:	0 % of site
☐ 15% or greater:	0 % of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

m. Identify the predominant wildlife species that occupy or use the project site: _____
Typical suburban species _____ _____ _____
_____ _____ _____

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
_____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:
i. Species and listing (endangered or threatened): _____
_____
_____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:
i. Species and listing: _____
_____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☐ No
If yes, give a brief description of how the proposed action may affect that use: _____
_____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☐ No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____
_____
_____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple 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.

A copy of the No Impact Determination Letter issued by the NYS Office of Parks, Recreation and Historic Preservation on September 24, 2025 is provided at Attachment "B".

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name 716 Sport Complex, LLC Date October 1, 2025

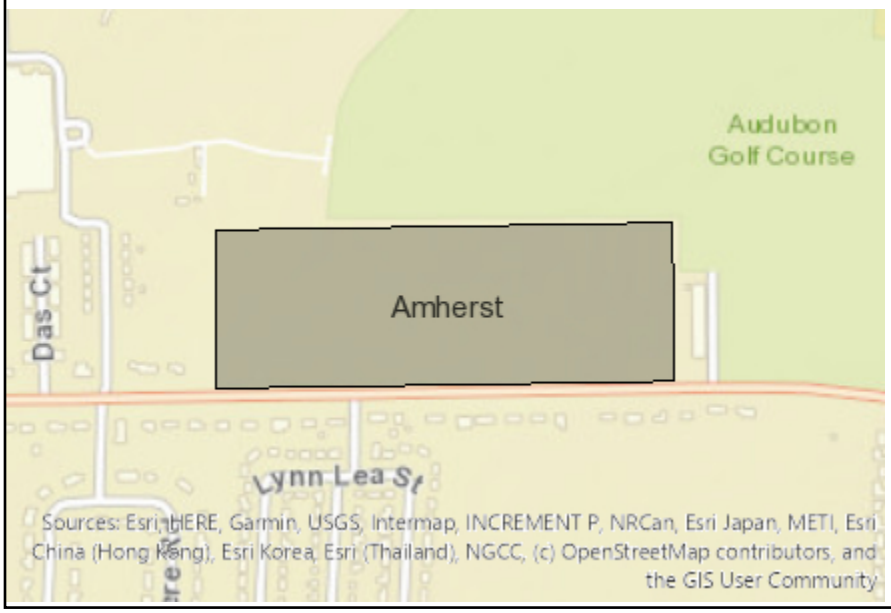
Signature _____ Title Project Engineer

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

PRINT FORM

EAF Mapper Summary Report

Tuesday, September 30, 2025 3:



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 to confirm data provided by the Mapper or to obtain data not provided by the Mapper.



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]	Remediaton Sites:C915207, NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Yes - Digital mapping data for Spills Incidents are not available for this location. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Yes
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Yes
E.1.h.i [DEC Spills or Remediation Site - DEC ID Number]	C915207
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	C915207, C915291
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.ii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT 1 OF PART 1 OF FULL EAF

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

NYSDEC BROWNFIELD CLEANUP PROGRAM (BCP)

CERTIFICATE OF COMPLETION

CERTIFICATE HOLDER(S):

Name	Address
BUFFALO-MAPLE ROAD, LLC AND MAPLE ROAD LODGING, LLC	570 Delaware Avenue, Buffalo, NY 14202

BROWNFIELD CLEANUP AGREEMENT:

Application Approval: 8/26/12 **Agreement Execution:** 9/22/06 **Agreement Index No.:**B9-0724-06-07

Application Approval Amendment: 5/9/07 **Agreement Execution Amendment:** 6/18/07

SITE INFORMATION

Site No.: C915207 **Site Name:** 330 Maple Road Site
Site Owner: Buffalo-Maple Road, LLC
Street Address: 330 Maple Road
Municipality: Williamsville **County:** Erie **DEC Region:** 9
Site Size: 26.000 Acres
Tax Map Identification Number(s): Portion of 55.03-1-10
Percentage of site located in an EnZone: 0 > 49 %

A description of the property subject to this Certificate is attached as Exhibit A and a site survey is attached as Exhibit B.

CERTIFICATE ISSUANCE

This Certificate of Completion, hereinafter referred to as the "Certificate," is issued pursuant to Article 27, Title 14 of the New York State Environmental Conservation Law ("ECL").

This Certificate has been issued upon satisfaction of the Commissioner, following review by the Department of the final engineering report and data submitted pursuant to the Brownfield Site Cleanup Agreement, as well as any other relevant information regarding the Site, that the applicable remediation requirements set forth in the ECL have been or will be achieved in accordance with the time frames, if any, established in the remedial work plan.

The remedial program for the Site has achieved a cleanup level that would be consistent with the following categories of uses (actual site use is subject to local zoning requirements):

Allowable Uses under the BCP: Residential, Restricted-Residential, Commercial, and Industrial
Cleanup Track: Track 2: Restricted use with generic soil cleanup objectives

Tax Credit Provisions for Entities Taxable Under Article 9, 9-A, 32, and 33:
Site Preparation and On-Site Groundwater Remediation Credit Component Rate is 12 %.
Tangible Property Credit Component Rate is 12 %.

Tax Credit Provisions for Entities Taxable Under Article 22 & S Corporations:
Site Preparation and On-Site Groundwater Remediation Credit Component Rate is 10 %.
Tangible Property Credit Component Rate is 10 %.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

LIABILITY LIMITATION

Upon issuance of this Certificate of Completion, and subject to the terms and conditions set forth herein, the Certificate holder(s) shall be entitled to the liability limitation provided in ECL Section 27-1421. The liability limitation shall run with the land, extending to the Certificate holder's successors or assigns through acquisition of title to the Site and to a person who develops or otherwise occupies the Site, subject to certain limitations as set forth in ECL Section 27-1421. The liability limitation shall be subject to all rights reserved to the State by ECL Section 27-1421.2 and any other applicable provision of law.

CERTIFICATE TRANSFERABILITY

This Certificate may be transferred to the Certificate holder's successors or assigns upon transfer or sale of the Site as provided by ECL Section 27-1419.5 and 6NYCRR Part 375-1.9.

CERTIFICATE MODIFICATION/REVOCATION

This Certificate of Completion may be modified or revoked by the Commissioner following notice and an opportunity for a hearing in accordance with ECL Section 27-1419 and 6NYCRR Part 375-1.9(e) upon a finding that:

(1) either the Applicant or the Applicant's successors or assigns have failed to comply with the terms and conditions of the Brownfield Site Cleanup Agreement;

(2) the Applicant made a misrepresentation of a material fact tending to demonstrate that it was qualified as a Volunteer;

(3) either the Applicant or the Applicant's successors or assigns made a misrepresentation of a material fact tending to demonstrate that the cleanup levels identified in the Brownfield Site Cleanup Agreement were reached;

(4) there is good cause for such modification or revocation;

(5) either the Applicant or the Applicant's successors or assigns failed to manage the controls or monitoring in full compliance with the terms of the remedial program;

(6) the terms and conditions of the environmental easement have been intentionally violated or found to be not protective or enforceable.

The Certificate holder(s) (including its successors or assigns) shall have thirty (30) days within which to cure any deficiency or to seek a hearing. If the deficiency is not cured or a request for a hearing received within such 30-day period, the Certificate shall be deemed modified or vacated on the 31st day after the Department's notice.

Joseph J. Martens
Commissioner
New York State Department of Environmental Conservation

By: _____ Date: May 7, 2012
Robert W. Schick, P.E., Acting Director
Division of Environmental Remediation

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT 2 OF PART 1 OF FULL EAF

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

September 24, 2025

Joseph Bognanno
300 State Street
Rochester, NY 14614

Re: DEC
716 Sports
Town of Amherst, Erie County, NY
25PR08945

Dear Joseph Bognanno:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Sydney Snyder at the following email address:

Sydney.Snyder@parks.ny.gov

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

LaBella
Powered by partnership.

October 2, 2025

Mr. Frank Ciminelli
Arc Building Partners
100 South Elmwood Avenue, Suite 100
Buffalo, NY 14202

RE: Traffic Impact Report for Proposed Sports Complex and Hotel
330 Maple Road, Town of Amherst, Erie County, New York
LaBella Project No.: 2254561

Dear Mr. Ciminelli:

LaBella Associates (LaBella) has completed a Due Diligence Traffic Analysis for the proposed 716 Sports Fieldhouse development, to be located in the Town of Amherst at 330 Maple Road. This assessment is based on industry-standard engineering guidelines and the Concept Plan prepared by LaBella Associates, dated October 1, 2025.

1. Project Description

The subject site is located along the north side of Maple Road and situated between the Audubon Town Park baseball fields and the Amherst Parks Department Building. Exhibit 1 is an aerial image that depicts the subject site, study intersections, and key landmarks.



Exhibit 1 – Site Location & Study Intersections

The proposed project generally consists of an athletic community center comprised of two 125,000 square-foot sports domes that will house a full-size turf football/lacrosse/soccer field, a 200 meter long 6-lane banked track, and six basketball/volleyball/pickleball courts. A two-story, 50,000-square-foot building will connect the two sports domes, and it will be comprised of a 25,000-square-foot fitness center, a 20,000-square-foot core lobby (Locker Room/Restroom), and a 5,000-square-foot space for member amenities (Restaurant/Snack Bar). Lastly, a five-story 150-room hotel will be located on the site to support the proposed development. The project will be supported by +/- 500 parking spaces. Access to the site will be provided via a full-movement driveway on Maple Road. The analysis herein considers the proposed driveway operating under signal control.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

2. Existing Conditions

Study Area Roadways

Maple Road is classified as a Principal Arterial – Other (no control of access) roadway and is under the jurisdiction of the Erie Country Department of Public Works. The roadway runs primarily east-west through the Town of Amherst. In the vicinity of the subject site, Maple Road provides one 11-foot-wide travel lane and one 14-foot-wide travel in each direction, with a 15-foot-wide two-way left-turn lane, and sidewalks are located on both sides of the roadway. There is no shoulder near the subject site. The posted speed limit is 45-mph.

NYS Route 263 (a.k.a. Millersport Highway) is classified as a Principal Arterial – Other (no control of access) roadway and is under the jurisdiction of the New York State Department of Transportation (NYSDOT). The roadway primarily north-south through the Town of Amherst and is also known as Millersport Highway. In the vicinity of the subject site, Millersport Highway provides two 12-foot-wide travel lanes in both directions, with a landscaped split median that varies in width. There are no sidewalks along this roadway. The posted speed limit is 45-mph.

North Maplemere Road is classified as an Urban Local roadway and is under the jurisdiction of the Town of Amherst. The roadway runs north-south from Maple Road to Millersport Highway. In the vicinity of the subject site, North Maplemere Road provides a 32-foot-wide cross-section with travel lanes in both directions. It should be noted that the roadway narrows to a 20-foot-wide cross-section approximately 700-feet from the intersection of Maple Road and North Maplemere Road. Sidewalks are located on both sides of the roadway. The posted speed limit is 30-mph.

Study Intersections

Maple Road and Flint Road is a four-leg signalized intersection. The eastbound Maple Road approach provides an exclusive left-turn lane, two through lanes, and an exclusive right-turn lane. The westbound Maple Road approach provides an exclusive left-turn only lane, a through lane, and a shared through/right-turn lane. The northbound and southbound Flint Road approaches provide an exclusive left-turn lane and a shared through/right-turn lane. Pedestrian accommodations at the intersection include curb ramps, marked crosswalks, and pedestrian signals with push buttons on all approaches. The study utilized signal timing data provided by the Erie County Department of Public Works, which is included in Attachment A. Exhibit 2 depicts an aerial image of the study intersection.



Exhibit 2 – Maple Road & Flint Road

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Maple Road and NYS Route 263 (a.k.a. Millersport Highway) Southbound Ramps is a three-leg signalized intersection. The eastbound Maple Road approach consists of one exclusive left-turn lane and two through lanes. The westbound Maple Road approach provides two through lanes and an exclusive right-turn lane. The southbound NYS Route 263 ramps approach provides an exclusive left-turn lane and an exclusive right-turn lane. The southbound approach provides curb ramps, marked crosswalks, and pedestrian signals with a push buttons. The study utilized signal timing data provided by the New York State Department of Transportation (NYSDOT), which is included in Attachment A. Exhibit 3 depicts an aerial image of the study intersection.



Exhibit 3 – Maple Road & NYS Route 263 SB Ramps

Maple Road and NYS Route 263 (a.k.a. Millersport Highway) Northbound Ramps is a four-leg signalized intersection. The eastbound Maple Road approach provides an exclusive left-turn lane and two through lanes. The westbound Maple Road approach provides one through lane and one through/right-turn lane. The northbound NYS Route 263 exit ramp approach provides an exclusive left-turn lane and a shared through/right-turn lane. It should be noted that there is a one-way entrance ramp at this intersection. Pedestrian accommodation at the intersection includes curb ramps, marked crosswalks, and pedestrian signals with push buttons across the northbound and southbound approaches. The study utilized signal timing data provided by the NYSDOT, which is included in Attachment A. Exhibit 4 depicts an aerial image of the study intersection.



Exhibit 4 – Maple Road & NY Route 263 NB Ramps

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Maple Road and N Maplemere Road is a four-leg signalized intersection. The eastbound and westbound Maple Road approaches provide an exclusive left-turn lane, a through lane, and a shared through/right-turn lane. The northbound N Maplemere Road approach provides a shared left-turn/through/right-turn lane. The southbound N Maplemere Road approach provides an exclusive left-turn lane and a shared through/right-turn lane. Pedestrian accommodations at the intersection include curb ramps, marked crosswalks, and pedestrian signals with push buttons on all approaches. The study utilized signal timing data provided by the Erie County Department of Public Works, which is included in Attachment A. Exhibit 5 depicts an aerial image of the study intersection.

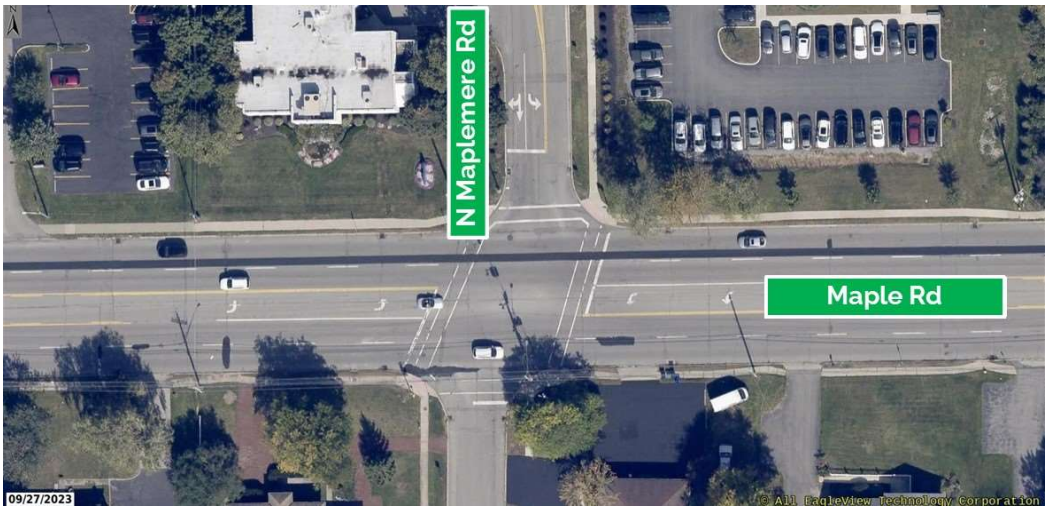


Exhibit 5 – Maple Road & N Maplemere Road

Maple Road and N Forest Road is a four-leg signalized intersection. The eastbound and westbound Maple Road approaches provide an exclusive left-turn lane, two through lanes, and an exclusive right-turn lane. The northbound and southbound N Forest Road approaches provide an exclusive left-turn lane, a through lane, and an exclusive right-turn lane. Pedestrian accommodations at the intersection include curb ramps, marked crosswalks, and pedestrian signals with push buttons on all approaches. The study utilized signal timing data provided by the Erie County Department of Public Works, which is included in Attachment A. Exhibit 6 depicts an aerial image of the study intersection.

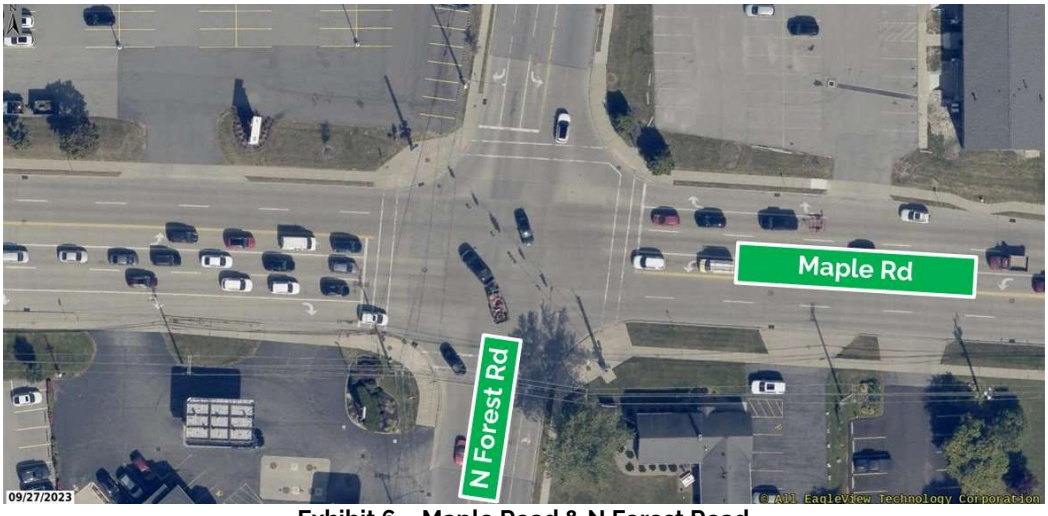


Exhibit 6 – Maple Road & N Forest Road

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

N Maplemere Road/Coventry Road and NYS Route 263 (a.k.a. Millersport Highway) is a four-leg signalized intersection. The eastbound and westbound Millersport Highway approaches provide an offset exclusive left-turn lane, a through lane, and a shared through/right-turn lane. The northbound N Maplemere Road approach provides a shared left-turn/through lane and an exclusive right-turn lane. The southbound Coventry Road approach provides a shared left-turn/through lane and an exclusive right-turn lane. It should be noted that Millersport Highway has a landscaped median. Pedestrian accommodations include curb ramps, a marked crosswalk, and pedestrian signals with push buttons across the westbound approach. The study utilized signal timing data provided by the NYSDOT, which is included in Attachment A. Exhibit 7 depicts an aerial image of the study intersection.

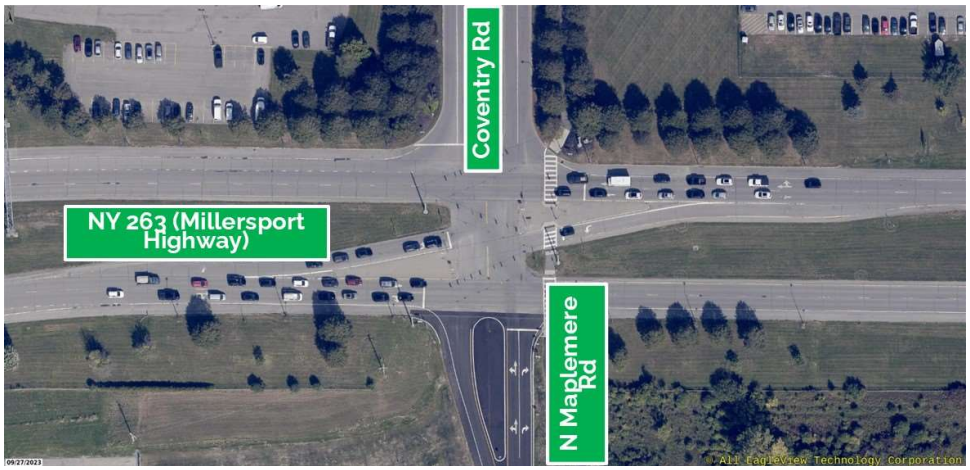


Exhibit 7 – NYS Route 263 & N Maplemere Road/Coventry Road

Collision Analysis

A collision analysis was performed for the study roadways and intersections based on data obtained from NYSDOT. The analysis included the review of 67 crashes over a three-year period between August 22, 2022, and August 22, 2025. Detailed collision summary tables are shown below in Tables 1-1 through 1-6.

Table 1-1: Maple Road and Flint Road Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	0	2	1	2	0	1	0	1	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	1	1	0	1	0	1	0	0	0	0	0	0
Left-Turn	1	0	0	2	1	0	0	1	0	0	0	0
Right-Turn	0	2	1	0	0	0	0	0	0	0	0	0
Right Angle	0	0	1	1	0	0	0	0	0	0	0	0
Fixed Object	0	1	0	0	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	1	0	0	0	1	0	0	0	0	0
Other	1	0	0	0	1	0	0	0	0	0	0	0
Total	3	6	4	6	2	2	1	2	0	0	0	0
Three-Year Total	19				7				0			

Table 1-1 shows that 19 collisions were reported at this intersection over the three-year period. Out of the 19 collisions, seven of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and one collision involving a pedestrian resulting in an injury.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 1-2: Maple Road and CR 263 SB Ramps Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	0	0	0	0	0	0	0	0	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	0	0	0	0	0	0	0	0	0	0	0
Left-Turn	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn	0	0	0	0	0	0	0	0	0	0	0	0
Right Angle	0	0	0	0	0	0	0	0	0	0	0	0
Fixed Object	0	0	0	0	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Three-Year Total	**0**				**0**				**0**			

Table 1-2 shows that zero collisions were reported at this intersection over the three-year period. Out of the zero collisions, zero of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Table 1-3: Maple Road and NYS Route 263 NB Ramps Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	1	1	0	1	0	0	0	1	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	0	0	0	0	0	0	0	0	0	0	0
Left-Turn	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn	0	0	1	0	0	0	0	0	0	0	0	0
Right Angle	0	0	0	0	0	0	0	0	0	0	0	0
Fixed Object	0	0	0	1	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	1	1	2	0	0	0	1	0	0	0	0
Three-Year Total	5				1				0			

Table 1-3 shows that five collisions were reported at this intersection over the three-year period. Out of the five collisions, one of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 1-4: Maple Road and N Maplemere Road Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	0	1	0	0	0	0	0	0	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	0	0	0	0	0	0	0	0	0	0	0
Left-Turn	0	2	0	1	0	2	0	0	0	0	0	0
Right-Turn	0	0	0	0	0	0	0	0	0	0	0	0
Right Angle	0	0	0	0	0	0	0	0	0	0	0	0
Fixed Object	0	0	0	1	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	1	0	0	0	0	0	0	0	0	0
Total	0	3	1	2	0	2	0	0	0	0	0	0
Three-Year Total	6				2				0			

Table 1-4 shows that six collisions were reported at this intersection over the three-year period. Out of the six collisions, two of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Table 1-5: Maple Road and N Forest Road Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	1	2	1	1	0	0	1	0	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	1	1	1	0	0	0	0	0	0	0	0
Left-Turn	1	2	3	0	1	1	1	0	0	0	0	0
Right-Turn	0	0	0	1	0	0	0	0	0	0	0	0
Right Angle	0	2	4	0	0	0	1	0	0	0	0	0
Fixed Object	1	0	0	0	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	1	0	0	0	1	0	0	0	0	0	0
Other	1	1	1	0	0	0	0	0	0	0	0	0
Total	4	9	10	3	1	2	3	0	0	0	0	0
Three-Year Total	26				6				0			

Table 1-5 shows that 26 collisions were reported at this intersection over the three-year period. Out of the 26 collisions, six of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 1-6: N Maplemere Road/Coventry Road and NYS Route Intersection Collision Summary

Collision Type	Number of Collisions				Number of Collisions Resulting in Injury				Number of Collisions Resulting in Fatalities			
	2022	2023	2024	2025	2022	2023	2024	2025	2022	2023	2024	2025
Rear End	1	2	1	0	0	0	0	0	0	0	0	0
Head On	0	0	0	0	0	0	0	0	0	0	0	0
Overtaking/Sideswipe	0	1	1	0	0	0	0	0	0	0	0	0
Left-Turn	0	0	1	1	0	0	1	0	0	0	0	0
Right-Turn	0	0	0	1	0	0	0	0	0	0	0	0
Right Angle	0	0	0	0	0	0	0	0	0	0	0	0
Fixed Object	0	0	1	0	0	0	0	0	0	0	0	0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	1	0	0	0	1	0	0	0	0	0	0
Total	1	4	4	2	0	1	1	0	0	0	0	0
Three-Year Total	11				2				0			

Table 1-6 shows that 11 collisions were reported at this intersection over the three-year period. Out of the 11 collisions, two of the collisions resulted in an injury, and zero collisions resulted in a fatality. There were zero collisions involving a bicyclist and zero collisions involving a pedestrian.

Data Collection

LaBella collected turning movement counts (TMCs) at the study intersections on Thursday, September 11, 2025, and Saturday, September 13, 2025. The counts were conducted during the typical weekday PM and Saturday Midday peak periods – 4:00 p.m. to 7:00 p.m. and 11:00 a.m. to 2:00 p.m., respectively. The typical weekday AM peak period – 7:00 a.m. to 9:00 a.m. – was not evaluated as the weekday volumes are highest during thew weekday PM peak period. Furthermore, it should be noted that the University of Buffalo football team had an away game during the Saturday count period. The selection of an away game Saturday was done intentionally to avoid capturing abnormal traffic patterns that result from home games. Based on these counts, the observed network peak hours were 4:30 p.m. to 5:30 p.m. during the weekday PM peak period and 12:15 p.m. to 1:15 p.m. during the Saturday Midday peak period. These 2025 Existing traffic volumes formed the basis of the traffic analysis herein and are shown in Figure 1. The raw TMC data is included under Attachment B.

LaBella also collected continuous traffic volume, speed, and vehicle classification data along Maple Road in proximity to the subject site's frontage from Friday September 5, 2025, through Saturday, September 13, 2025. The raw ATR data is included under Attachment C.

3. Traffic Assessment

Traffic Forecasting (i.e. No-Build Traffic Volumes)

To evaluate the impact of the proposed project, traffic projections were prepared for the design year of 2028. It should be noted that this design year was selected to provide a conservative analysis as it is expected that the project will be completed and occupied sooner than 2028. LaBella Associates reviewed the Pending Development Project page on the Town of Amherst website and determined that there are no projects that will have an effect on the study intersections.[1] In addition, historical traffic volume data from the NYSDOT Traffic Viewer was also reviewed. To provide a conservative analysis, a 1.50% annual growth rate was applied to the Existing 2025 traffic volumes and compounded over a three-year period. The 2028 No-Build traffic volumes are shown in Figure 2 for AM, Midday and PM peak hours. No-Build volumes represent the forecasted traffic volumes for 2028 *without* the proposed project.

[1] https://www.amherst.ny.us/content/development_projects_pending.php

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Trip Generation

The Institute of Transportation Engineers' (ITE) *Trip Generation Manual,* 12th Edition, is the industry-standard resource used for estimating trip generation for proposed land uses based on data collected at similar uses. Upon review of the *Trip Generation Manual*, the following Land Use Codes (LUC) were utilized for the study herein:

- LUC 495 "Recreational Community Center" – ITE Description: *A recreational community center is a stand-alone public facility similar to and including YMCAs. These facilities often include classes and clubs for adults and children, a day care or nursery school, meeting rooms and other social facilities, swimming pools and whirlpools, saunas, tennis, racquetball, handball, pickleball, basketball and volleyball courts, outdoor athletic fields/courts, exercise classes, weightlifting and gymnastics equipment, locker rooms, and a restaurant or snack bar. Public access is typically allowed, and a membership fee may be charged.*

- LUC 310 "Hotel" – ITE Description: *A hotel is a place of lodging that provides overnight accommodation and supporting facilities such as a full-service restaurant, concierge service, valet parking, cocktail lounge, meeting rooms, banquet room, and convention facilities. A hotel typically provides a swimming pool or another recreational facility such as a fitness room.*

Table 2 summarizes the weekday PM and Saturday Midday peak hour site-generated trips for the two components of the project based on the applicable independent variable (IV).

Table 2 – Summary of Peak Hour Trip Generation

Project Component	Land Use	IV	Weekday PM Peak Hour			Saturday Midday Peak Hour		
			Entering	Exiting	Total	Entering	Exiting	Total
Athletic Community Center	495	300 KSF	320	347	667	185	157	342
Hotel	310	150 Rooms	37	35	72	36	35	71
		Total	**357**	**382**	**739**	**221**	**192**	**413**

As shown in Table 2, the proposed project will generate 739 total trips during the weekday PM peak hour and 413 total trips during the Saturday Midday peak hour. There is no "pass-by" component associated with the proposed uses. It should be noted that the analysis herein does not take a credit for internal capture (i.e., trip sharing between the two components) to provide a conservative analysis.

Trip Distribution

It was assumed that the majority of trips (60%) will come from the west via Maple Road. The 60% is distributed along key roadways that intersect Maple Road such as NYS Route 263 (a.k.a. Millersport Highway) and Flint Road. The remaining trips (40%) will come from the east via Maple Road. These trip distributions are shown in Figure 3. The resulting project-generated trips are shown in Figure 4 for weekday PM and Saturday Midday peak hours.

Capacity Analysis

The capacity analysis relates traffic volumes to the physical characteristics of an intersection. Intersection evaluations were made using Synchro Version 12 and the procedures contained in the *Highway Capacity Manual (HCM), 7th Edition*. Table 3 and Table 4 summarize the results of the level of service calculations for the Existing, No-Build and Build conditions during the weekday PM and Saturday Midday peak hours, respectively. The Level of Service reports are included under Attachment C.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 3 – LOS Summary: Weekday PM Peak Hour

Approach	Lane Group	2025 Existing	2028 No-Build	2028 Build	Δ No-Build vs. Build
Maple Rd / Flint Rd					
Maple Rd, EB	L	B/18.3	B/19.5	C/20.3	+0.8
	T	C/23.1	C/24.6	C/26.1	+1.5
	R	C/25.0	C/26.8	C/27.5	+0.7
Maple Rd, WB	L	B/16.8	B/18.0	B/19.2	+1.2
	TR	C/23.8	C/25.6	C/26.9	+1.3
Flint Rd, NB	L	C/32.3	C/33.8	C/34.4	+0.6
	TR	C/30.0	C/30.1	C/31.0	+0.9
Flint Rd, SB	LT	C/26.1	C/26.0	C/26.4	+0.4
	R	D/43.8	D/45.9	D/46.7	+0.5
	Overall	**C/26.7**	**C/28.2**	**C/29.1**	**+0.9**
Maple Rd / NYS Route 263 SB Ramps					
Maple Rd, EB	L	A/5.5	A/5.9	A/6.4	+0.5
	T	A/4.2	A/4.3	A/4.5	+0.2
Maple Rd, WB	T	A/4.4	A/4.6	A/4.7	+0.1
	R	A/3.9	A/4.1	A/4.5	+0.4
NYS Route 263 SB Ramp, SB	L	C/29.9	C/29.7	C/29.7	0.0
	R	D/39.5	D/39.2	D/39.2	0.0
	Overall	**A/6.9**	**A/7.0**	**A/6.9**	**-0.1**
Maple Rd / NYS Route 263 NB Ramps					
Maple Rd, EB	L	D/41.6	D/48.1	E/73.0	+24.9
	T	C/20.3	C/21.9	C/24.6	+2.7
Maple Rd, WB	TR	C/24.6	C/27.0	C/32.8	+5.8
NYS Route 263 NB Ramps, NB	L	C/33.2	C/31.7	C/29.9	-1.8
	TR	E/74.8	E/75.5	F/105.9	+30.4
	Overall	**D/35.4**	**D/37.2**	**D/48.2**	**+11.0**
Maple Rd / N Maplemere Rd					
Maple Rd, EB	L	A/5.2	A/5.4	A/6.5	+1.1
	TR	A/9.2	A/9.7	B/11.5	+1.8
Maple Rd, WB	L	A/5.8	A/6.1	A/7.1	+1.0
	TR	A/9.2	A/9.6	B/11.4	+1.8
N Maplemere Rd, NB	LTR	C/26.4	C/26.5	C/26.5	0.0
N Maplemere Rd, SB	L	C/25.9	C/26.0	C/26.5	+0.5
	TR	C/27.3	C/27.5	C/27.5	0.0
	Overall	**B/10.6**	**B/11.0**	**B/12.6**	**+1.6**
Maple Rd / N Forest Rd					
Maple Rd, EB	L	C/20.9	C/22.8	C/29.9	+7.1
	T	C/33.0	D/37.3	D/42.3	+5.0
	R	C/22.4	C/23.8	C/25.0	+1.2
Maple Rd, WB	L	C/27.9	C/34.0	D/39.8	+5.8
	T	C/27.6	C29.9	C/33.4	+3.5
	R	C/22.4	C/23.8	C/25.0	+1.2
N Forest Rd, NB	L	C/28.2	C/28.3	C/38.6	+10.3
	T	D/43.3	D/45.2	D/45.6	+0.4
	R	D/36.7	D/37.1	D/37.3	+0.2
N Forest Rd, SB	L	C/32.8	C/34.8	D/35.6	+0.8
	T	C/34.1	C/34.4	D/36.3	+1.9
	R	C/29.3	C/29.4	C/31.8	+2.4
	Overall	**C/31.3**	**C/33.8**	**D/36.7**	**+2.9**
N Maplemere Rd/Coventry Rd and NYS Route 263					
NYS Route 263, EB	L	F/99.8	F/99.2	F/99.2	0.0
	TR	C/26.9	C/27.8	C/29.3	+1.5
NYS Route 263, WB	L	F/107.6	F/106.9	F/102.8	-4.1
	TR	C/31.2	C/32.4	C/32.4	0.0
N Maplemere Rd, NB	LT	F/83.4	F/83.4	F/83.3	-0.1
	R	E/79.9	E/79.6	F/81.9	+2.3
Coventry Rd, SB	LT	E/72.4	E/73.4	E/73.4	0.0
	R	F/171.4	F/190.6	F/190.6	0.0
	Overall	**E/60.4**	**E/63.7**	**E/64.7**	**+1.0**

EB, WB, NB, SB = Eastbound, Westbound, Northbound, and Southbound intersection approaches
L, T, R = Left-turn, Through, and/or Right-turn movements
X / X.X = Level of service / Average delay in seconds per vehicle

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Table 4 – LOS Summary: Saturday Midday Peak Hour

Approach	Lane Group	2025 Existing	2028 No-Build	2028 Build	Δ No-Build vs. Build
Maple Rd / Flint Rd					
Maple Rd, EB	L	B/11.8	B/12.2	B/12.4	+0.2
	T	B/15.4	B/16.1	B/16.6	+0.5
	R	B15.0	B/15.5	B/15.7	+0.2
Maple Rd, WB	L	B/10.9	B/11.3	B/11.7	+0.4
	TR	B/14.5	B/15.1	B/15.4	+0.3
Flint Rd, NB	L	C/27.1	C/27.3	C/27.4	+0.1
	TR	C/27.1	C/27.2	C/27.7	+0.5
Flint Rd, SB	LT	C/30.9	C/31.0	C/31.2	+0.2
	R	C/34.9	D/35.3	D/35.5	+0.2
	Overall	**B/16.9**	**B/17.4**	**B/17.7**	**+0.3**
Maple Rd / NYS Route 263 SB Ramps					
Maple Rd, EB	L	A/4.5	A/4.8	A/5.1	+0.3
	T	A/3.4	A/3.6	A/3.7	+0.1
Maple Rd, WB	T	A/3.6	A/3.8	A/3.9	+0.1
	R	A/3.2	A/3.4	A/3.6	+0.2
NYS Route 263 SB Ramp, SB	L	C/30.9	C/30.6	C/30.6	0.0
	R	D/41.9	D/41.4	D/41.4	0.0
	Overall	**A/6.1**	**A/6.3**	**A/6.1**	**-0.2**
Maple Rd / NYS Route 263 NB Ramps					
Maple Rd, EB	L	B/16.2	B/18.3	C/26.5	+7.2
	T	A/8.8	A/9.4	B/12.3	+2.9
Maple Rd, WB	TR	B/10.4	B/11.2	B/15.0	+3.8
NYS Route 263 NB Ramps, NB	L	D/42.5	D/41.4	D/36.8	-4.6
	TR	E/61.8	E/62.8	E/65.8	+3.0
	Overall	**C/20.3**	**C/21.1**	**C/24.9**	**+3.8**
Maple Rd / N Maplemere Rd					
Maple Rd, EB	L	A/5.1	A/5.3	A/6.0	+0.7
	TR	A/6.6	A/6.8	A/7.4	+0.6
Maple Rd, WB	L	A/6.3	A/6.4	A/6.4	0.0
	TR	B/10.5	B/10.9	B/11.8	+0.9
N Maplemere Rd, NB	LTR	C/28.0	C/28.1	C/28.1	0.0
N Maplemere Rd, SB	L	C/30.0	C/30.5	C/31.1	+0.6
	TR	C/31.9	C/32.3	C/32.3	0.0
	Overall	**B/11.5**	**B/11.8**	**B/12.2**	**+0.4**
Maple Rd / N Forest Rd					
Maple Rd, EB	L	B/11.1	B/11.6	B/12.3	+0.7
	T	B/15.4	B/16.1	B/17.0	+0.9
	R	B/12.7	B/13.2	B/13.9	+0.7
Maple Rd, WB	L	B/11.1	B/11.7	B/12.3	+0.6
	T	B/14.9	B/15.6	B/17.0	+1.4
	R	B/12.4	B/12.9	B/13.6	+0.7
N Forest Rd, NB	L	C/29.2	C/29.3	C/28.8	-0.5
	T	D/36.9	D/37.2	D/36.2	-1.0
	R	D/36.4	D/36.6	D/35.7	-0.9
N Forest Rd, SB	L	C/28.6	C/28.7	C/28.4	-0.3
	T	D/35.9	D/36.2	D/37.5	+1.3
	R	C/31.8	C/31.9	C/33.6	+1.7
	Overall	**C/20.4**	**C/20.9**	**C/21.5**	**+0.6**
N Maplemere Rd/Coventry Rd and NYS Route 263					
NYS Route 263, EB	L	F/114.0	F/113.0	F/113.0	0.0
	TR	B/11.4	B/11.8	B/12.8	+1.0
NYS Route 263, WB	L	F/104.0	F/103.6	F/101.9	-1.7
	TR	B/10.6	B/11.0	B/11.4	+0.4
N Maplemere Rd, NB	LT	F/84.2	F/84.0	F/82.6	-1.4
	R	F/86.6	F/86.6	F/86.8	+0.2
Coventry Rd, SB	LT	F/88.2	F/88.1	F/88.1	0.0
	R	F/101.7	F/101.4	F/101.4	0.0
	Overall	**C/29.8**	**C/30.0**	**C/31.4**	**+1.4**

EB, WB, NB, SB = Eastbound, Westbound, Northbound, and Southbound intersection approaches
L, T, R = Left-turn, Through, and/or Right-turn movements
X / X.X = Level of service / Average delay in seconds per vehicle

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Maple Road and Flint Road: The level of service analysis indicates that the intersection currently operates at an overall LOS C or better during the study peak hours and it will continue to do so in the No-Build and Build conditions. The maximum increase in overall delay between the No-Build and Build conditions is +0.9 second, which occurs during the weekday PM peak hour. The maximum increase in delay for an individual movement between the No-Build and Build conditions is +1.5 seconds during the weekday PM peak hour for the eastbound Maple Road through movement. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

Maple Road and NYS Route 263 SB Ramps: The level of service analysis indicates that the intersection currently operates at an overall LOS A during all peak hours and it will continue to do so in the No-Build and Build conditions. In fact, there will be a marginal decrease in the overall delay between the No-Build and Build conditions. The maximum increase in dealy for an individual movement between the No-Build and Build conditions is +0.5 seconds during the weekday PM peak hour for the eastbound left-turn movement. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

Maple Road and NYS Route 263 NB Ramps: The level of service analysis indicates that the intersection currently operates at an overall LOS D or better during the weekday PM and Saturday Midday peak hours and it will continue to do so in the No-Build and Build conditions. The maximum increase in overall delay between the No-Build and Build conditions is the +11.0, which occurs during the weekday PM peak hour. In the Build condition, there is a notable increase in delay in the northbound NYS Route 263 through/right-turn movement. LaBella investigated potential signal timing adjustments to mitigate the increase in delay in the Build condition during the weekday PM peak hour. Specifically, LaBella analyzed reallocated 5 seconds of green time from the mainline Maple Road movements to the northbound NYS Route 263 approach thus maintaining the existing cycle length. Table 5 summarizes the LOS results with these adjustments. The LOS reports are included under Attachment D.

Table 5 – LOS Summary: Weekday PM Peak Hour – Signal Timing Adjustments

Approach	Lane Group	2025 Existing	2028 No-Build	2028 Build w. Mitigation	Δ No-Build vs. Build w/ Mitigation
Maple Rd / NYS Route 263 NB Ramps					
Maple Rd, EB	L	D/41.6	D/48.1	F/98.1	+50.0
	T	C/20.3	C/21.9	C/29.2	+7.3
Maple Rd, WB	TR	C/24.6	C/27.0	D/40.0	+13.0
NYS Route 263 NB Ramps, NB	L	C/33.2	C/31.7	C/25.8	-5.9
	TR	E/74.8	E/75.5	E/69.4	-6.1
Overall		**D/35.4**	**D/37.2**	**D/44.8**	**+7.6**

EB, WB, NB, SB = Eastbound, Westbound, Northbound, and Southbound intersection approaches
L, T, R = Left-turn, Through, and/or Right-turn movements
X / X.X = Level of service / Average delay in seconds per vehicle

As shown in Table 5, the signal timing adjustments will result in the northbound NYS Route 263 approach operating with lower delays in the Build condition than the No-Build and Existing conditions. It should be noted that the reduction in time on the mainline does result in the eastbound Maple Road left-turn movment experiencing a degradation in LOS from a LOS D to a LOS F with an increase in delay of +50 seconds. However, the V/C ratio for the movement remain below 1.0 (0.69), which indicates that the approach will continue to have capacity in the Build condition with the signal timing adjustments. Based on the analysis, it is recommended that the signal timing adjustments be considered for implementation during the weekday PM peak hour. There are no impacts that require mitigation during the Saturday Midday peak hour.

Maple Road and N Maplemere Road: The level of service analysis indicates that the intersection currently operates at an overall LOS B during all peak hours and it will continue to do so in the No-Build and Build conditions. The maximum increase in overall delay between the No-Build and Build conditions is +1.6 second, which occurs during the weekday PM peak hour. The maximum increase in delay for an individual movement between the No-Build and Build conditions is +1.8 seconds during the weekday PM peak hour for the eastbound and westbound Maple Road through movements. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Maple Road and N Forest Road: The level of service analysis indicates that the intersection currently operates at an overall LOS C during all peak hours and it will continue to do so in the No-Build conditions. The overall LOS will degrade from a LOS C to a LOS D in the Build condition during the weekday PM peak hour. The overall LOS will remain an LOS C in the Build condition during the Saturday Midday peak hour. The maximum increase in overall delay between the No-Build and Build conditions is +2.9 second, which occurs during the weekday PM peak hour. The maximum increase in delay for an individual movement between the No-Build and Build conditions is +10.3 seconds during the weekday PM peak hour for the northbound Forest Road left-turn movement. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

NYS Route 263 and N Maplemere Road/Coventry Road: The level of service analysis indicates that the intersection currently operates at an overall LOS E during the weekday PM peak hour and an overall LOS C during the Saturday Midday peak hour. These conditions are expected to remain unchanged under No-Build and Build conditions. The maximum increase in overall delay between the No-Build and Build conditions is +1.4 second, which occurs during the Saturday Midday peak hour. The maximum increase in delay for an individual movement between the No-Build and Build conditions is +2.3 seconds during the weekday PM peak hour for the northbound N Maplemere Road right-turn movement. Based on the analysis, the proposed project will not have a significant adverse impact on the operations of the intersection.

Maple Road and Site Driveway:

Due to the high volume of traffic along the mainline Maple Road approaches, it is recommended that the proposed driveway be signalized. A capacity analysis was conducted for the Maple Road/Site Driveway based on the following assumptions:

- Exclusive left-turn and right-turn lanes for the Site Driveway approach
- Exclusive left-turn lane for the eastbound Maple Road approach
- Semi-Actuated Uncoordinated with detection on the Site Driveway and eastbound Maple Road left-turn movements
- 60-second cycle length with a 40-second Minimum Recall split for the mainline Maple Road phases and a 20-second No Recall split for the Site Driveway phase

Table 6 summarizes the LOS results for the Maple Road/Site Driveway intersection based on these assumptions. The LOS reports are included under Attachment D.

Table 6 – LOS Summary: Maple Road/Site Driveway

Approach	Lane Group	Weekday PM Peak Hour	Saturday Midday Peak Hour
Maple Rd / Site Driveway			
Maple Rd, EB	L	D/35.9	B/11.8
	T	A/8.6	A/5.7
Maple Rd, WB	TR	A/8.2	A/6.1
Site Driveway, SB	L	C/21.5	B/15.1
	R	C/30.0	B/17.8
Overall		**B/12.3**	**A/7.2**

EB, WB, NB, SB = Eastbound, Westbound, Northbound, and Southbound intersection approaches
L, T, R = Left-turn, Through, and/or Right-turn movements
X / X.X = Level of service / Average delay in seconds per vehicle

As shown in Table 6, the level of service analysis indicates that the intersection will operate favorably under signal control. While a signal warrant analysis was not conducted, it is expected that MUTCD Warrant 3 "Peak-Hour" will be met. It is also expected that the site-generated trips will meet the AASHTO warrant criteria for an exclusive left-turn lane (5 or more peak hour left turns).

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

4. Conclusion

Based on the results of the traffic impact study completed for the proposed project, the following conclusions are presented:

- The proposed project generally consists of an athletic community center comprised of two 125,000 square-foot sports domes that will house a full-size turf football/lacrosse/soccer field, a 200 meter long 6-lane banked track, and six basketball/volleyball/pickleball courts. A two-story, 50,000-square-foot building will connect the two sports domes, and it will be comprised of a 25,000-square-foot fitness center, a 20,000-square-foot core lobby (Locker Room/Restroom), and a 5,000-square-foot space for member amenities (Restaurant/Snack Bar). Lastly, a five-story 150-room hotel will be located on the site to support the proposed development. The project will be supported by +/- 500 parking spaces. Access to the site will be provided via a full-movement driveway on Maple Road. The analysis herein considers the proposed driveway operating under signal control.

- LaBella collected turning movement counts (TMCs) at the study intersections on Thursday, September 11, 2025, and Saturday, September 13, 2025. The counts were conducted during the typical PM and Saturday MD peak periods – 4:00 p.m. to 7:00 p.m. and 11:00 a.m. to 2:00 p.m., respectively. *It should be noted that the University of Buffalo football team had an away game during the Saturday count period. This was done intentionally to avoid capturing abnormal traffic patterns that result from home games.* Based on these counts, the observed network peak hours were 4:30 p.m. to 5:30 p.m. during the weekday PM peak period and 12:15 p.m. to 1:15 p.m. during the weekend Midday peak period.

- To evaluate the impact of the proposed project, traffic projections were prepared for the design year of 2028. It should be noted that this design year was selected to provide a conservative analysis as it is expected that the project will be completed and occupied sooner than 2028. LaBella Associates reviewed the Pending Development Project page on the Town of Amherst website and determined that there are no projects that will have an effect on the study intersections. In addition, historical traffic volume data from the NYSDOT Traffic Viewer was also reviewed. To provide a conservative analysis, a 1.50% annual growth rate was applied to the Existing 2025 traffic volumes and compounded over a three-year period.

- The level of service analysis indicates that the majority of the study intersection will operate at levels of service commensurate to the No-Build condition. Maple Road and NYS Route 263 SB Ramps – The northbound NYS Route 263 approach to the intersection will experience delay during the weekday PM peak hour Build condition. Mitigation could consist of signal timing adjustments. It is recommended that the Maple Road/Site Driveway intersection operate under signal control.

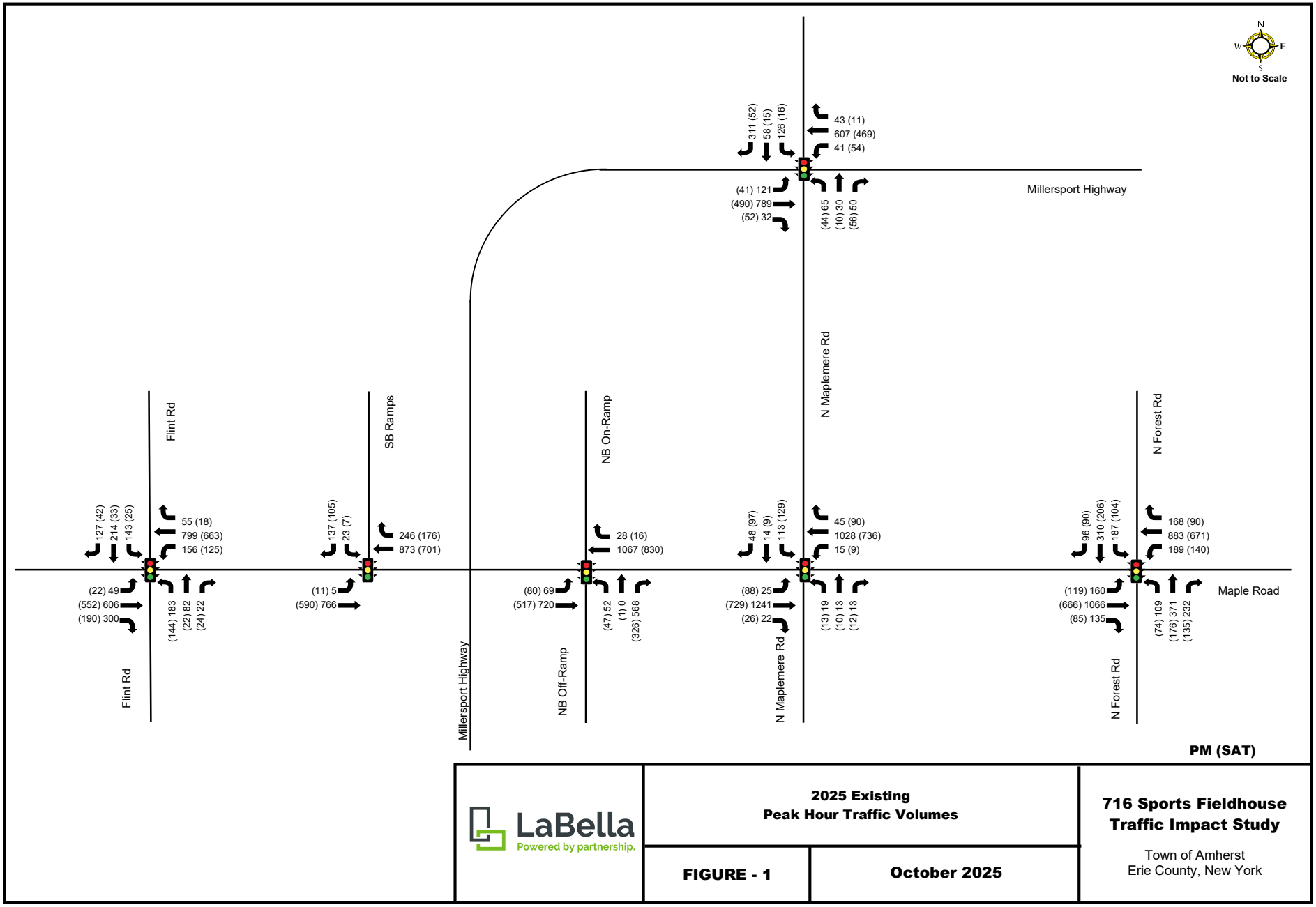
Please contact me at shipp@labellapc.com or at (914) 269-5604 if you have questions on this traffic analysis.

Sincerely,
LaBella Associates



Starke W. Hipp, PE
Traffic Engineer

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



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2025 Existing
Peak Hour Traffic Volumes

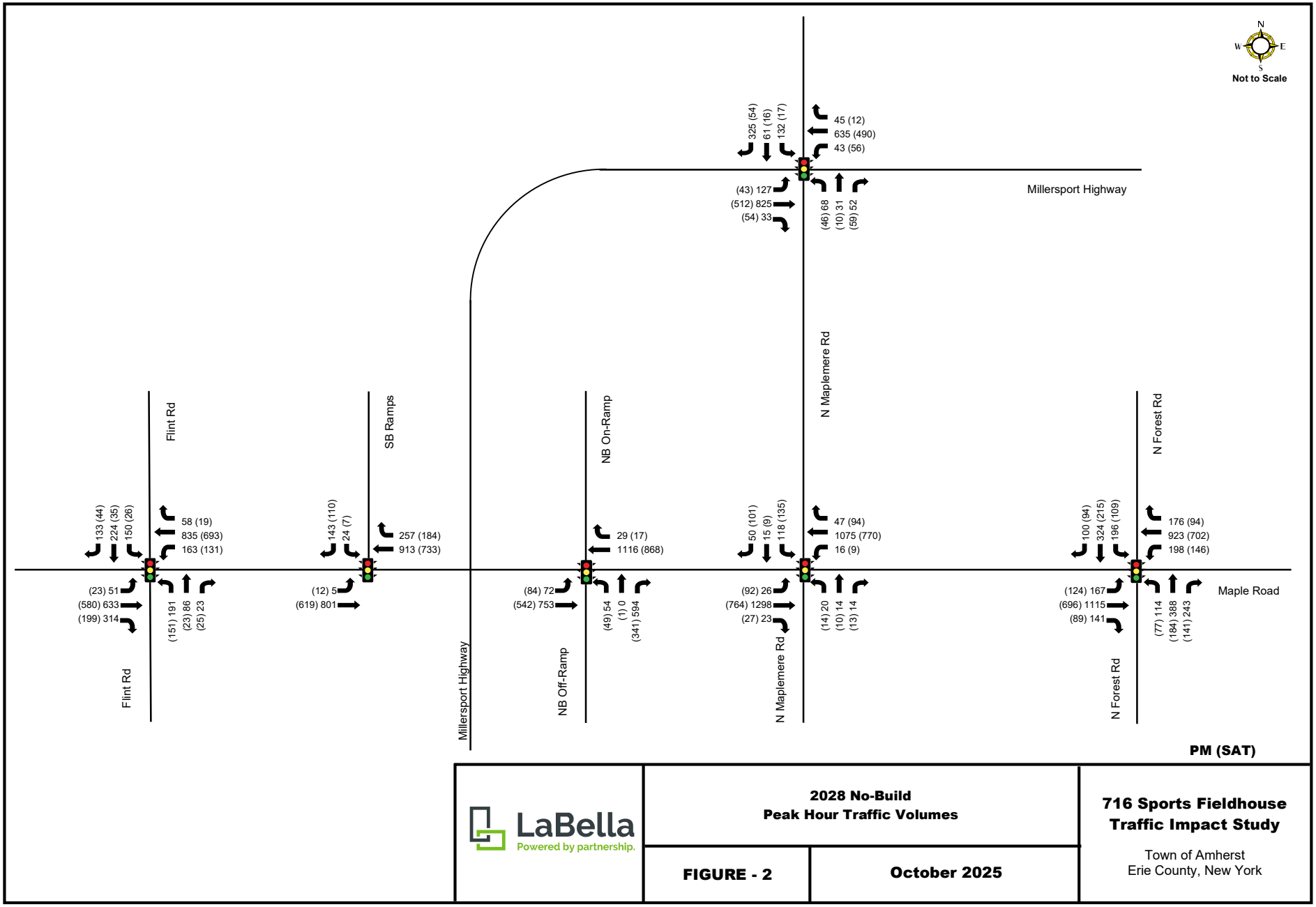
FIGURE - 1

October 2025

716 Sports Fieldhouse
Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



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2028 No-Build
Peak Hour Traffic Volumes

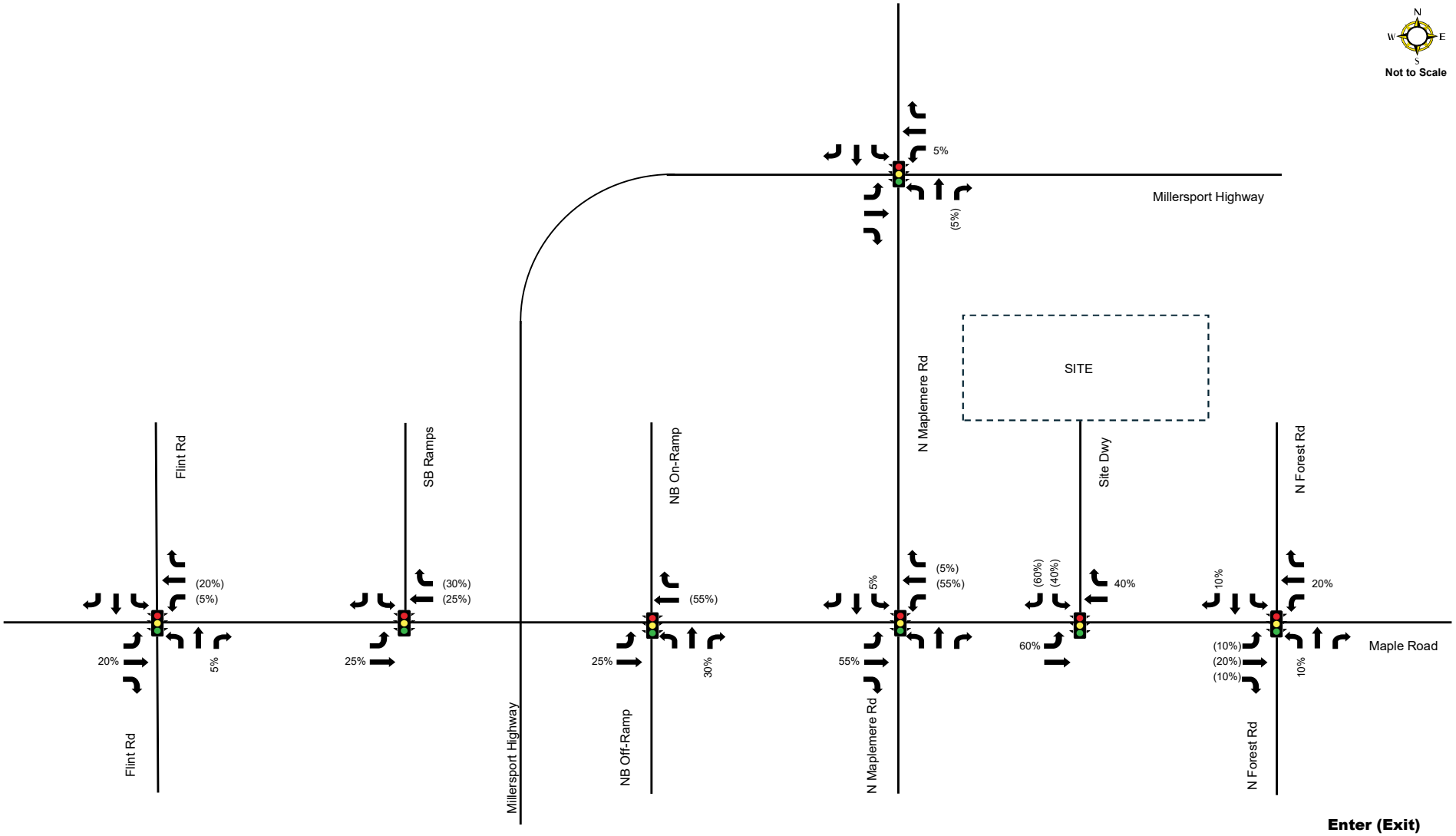
FIGURE - 2

October 2025

716 Sports Fieldhouse
Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



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Trip Distributions

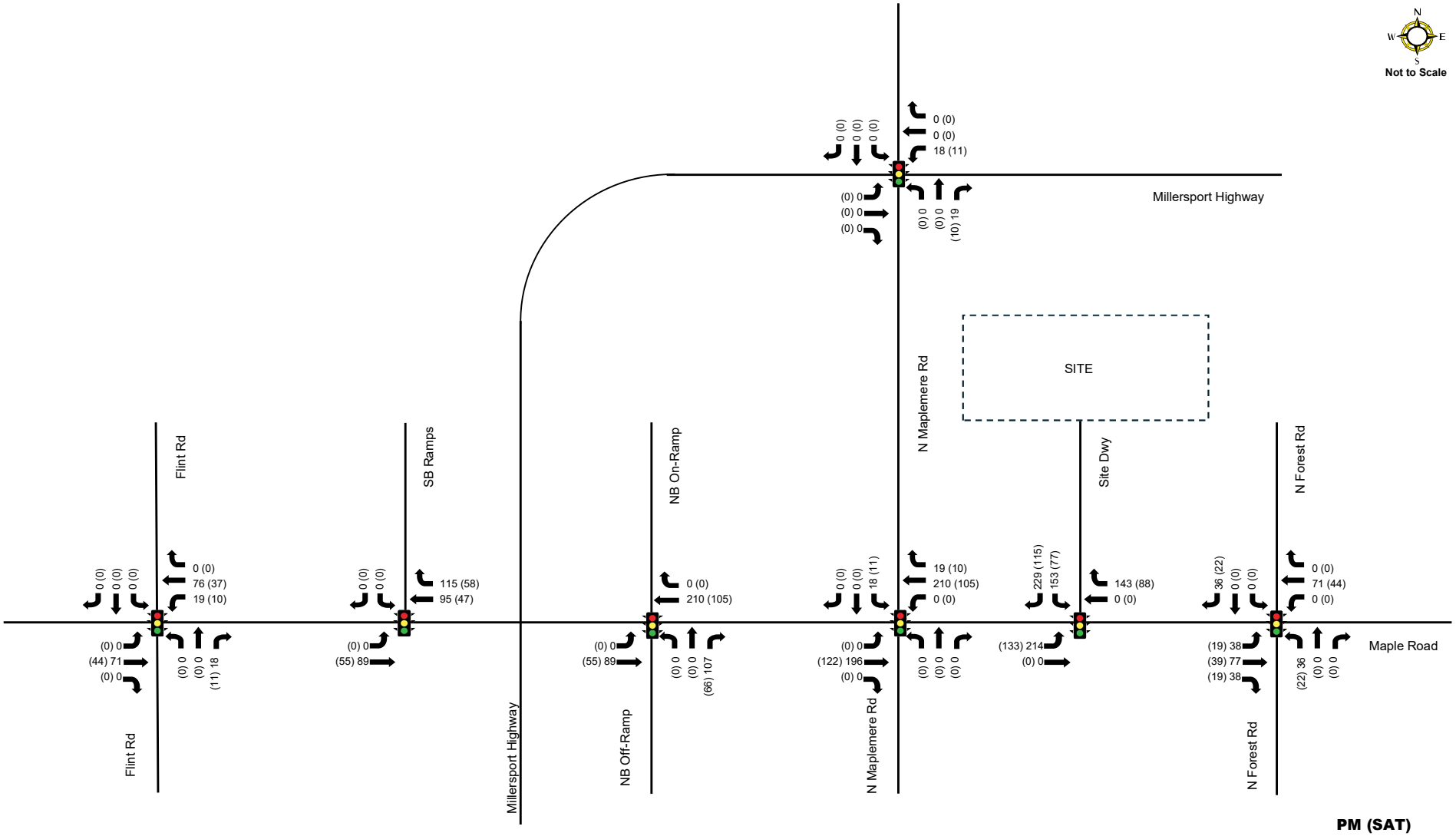
FIGURE - 3

October 2025

716 Sports Fieldhouse
Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



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Trip Assignment

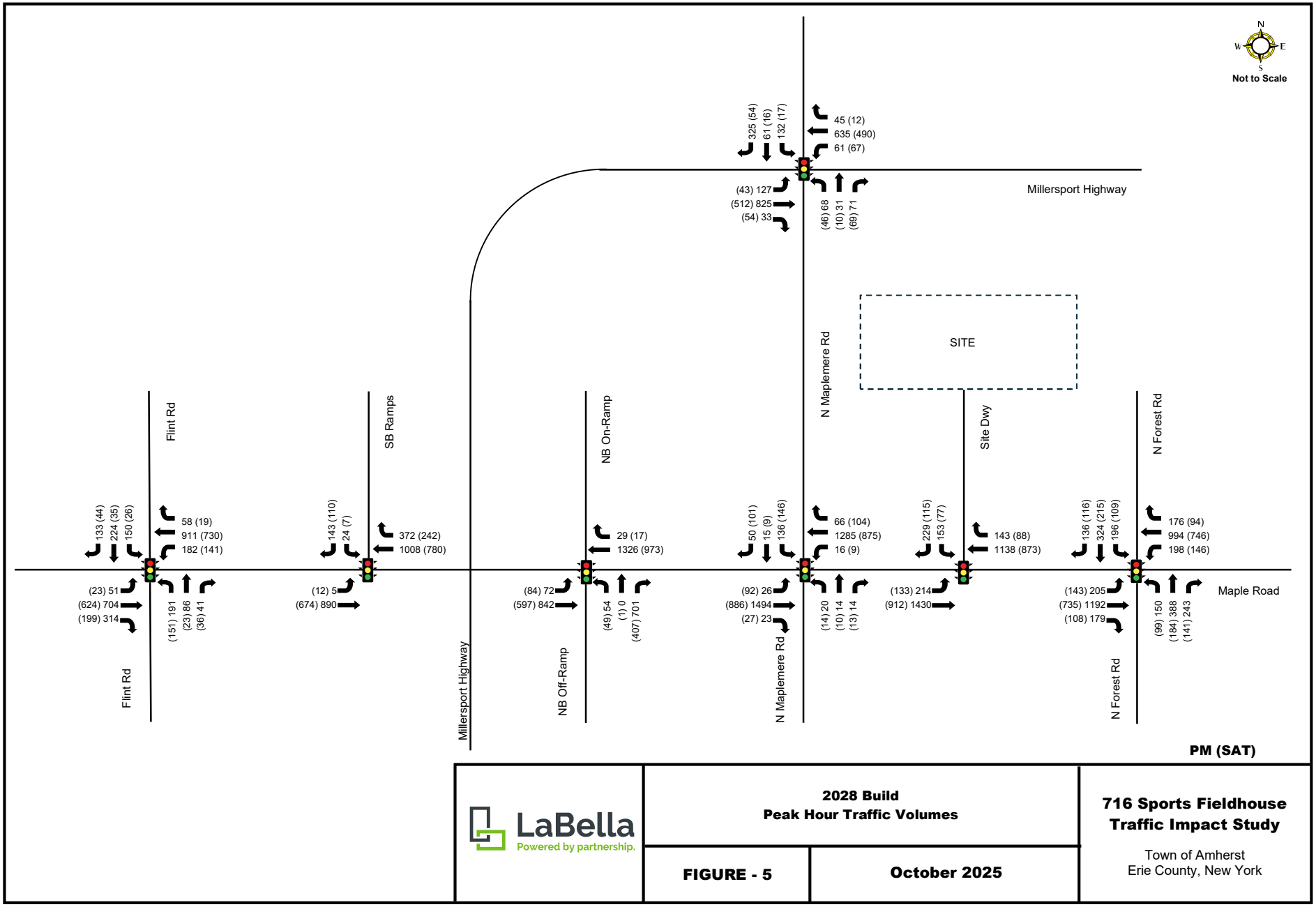
FIGURE - 4

October 2025

716 Sports Fieldhouse Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



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2028 Build
Peak Hour Traffic Volumes

FIGURE - 5

October 2025

716 Sports Fieldhouse
Traffic Impact Study

Town of Amherst
Erie County, New York

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT A1

NYSDOT SIGNAL TIMINGS

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

NYSDOT TRAFFIC SIGNAL #431
MAPLE RD @ RAMP TO/FROM RTE 263

QUANTITY AND ITEM LIST			
SIGNAL 431			
ITEM NO.	DESCRIPTION	UNIT	QTY
206.03060005	CONDUIT EXCAV & BACKFILL (NOT IN ROADWAY)	FT	75
619.1612	MAINTAIN TRAFFIC SIGNAL EQUIP (REQ B)	INT MO	1
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	1
680.520506	CONDUIT, RIGID PLASTIC, CLASS 1, 2"	FT	75
680.6710	SIGNAL POLE - TOP MOUNT (10FT)	EA	2
680.730514	SIGNAL CABLE, 5 CONDUCTOR, 14 AWG	FT	325
680.78010005	ALTER PULLBOX FOR CONDUIT	EA	2
680.79000805	REMOVE TRAFFIC SIGNAL INSTALLATION	EA	1
680.813105	PEDESTRIAN SIGNAL MODULE 12IN, BI-MODAL HAND/MAN	EA	2
680.813106	PEDESTRIAN SIGNAL SECTION - POLYCARBONITE, TYPE 1 12IN	EA	4
680.81330010	AUDIBLE PEDESTRIAN SIGNAL	EA	2
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EA	2
680.81500010	PEDESTRIAN COUNT DOWN TIMER	EA	2



R10-3f

NEW PEDESTRIAN SIGNS
SHALL BE SIGN NUMBER R10-3f FROM THE MUTCD.

"RTE 263 RAMP" FOR WA1 & WA2

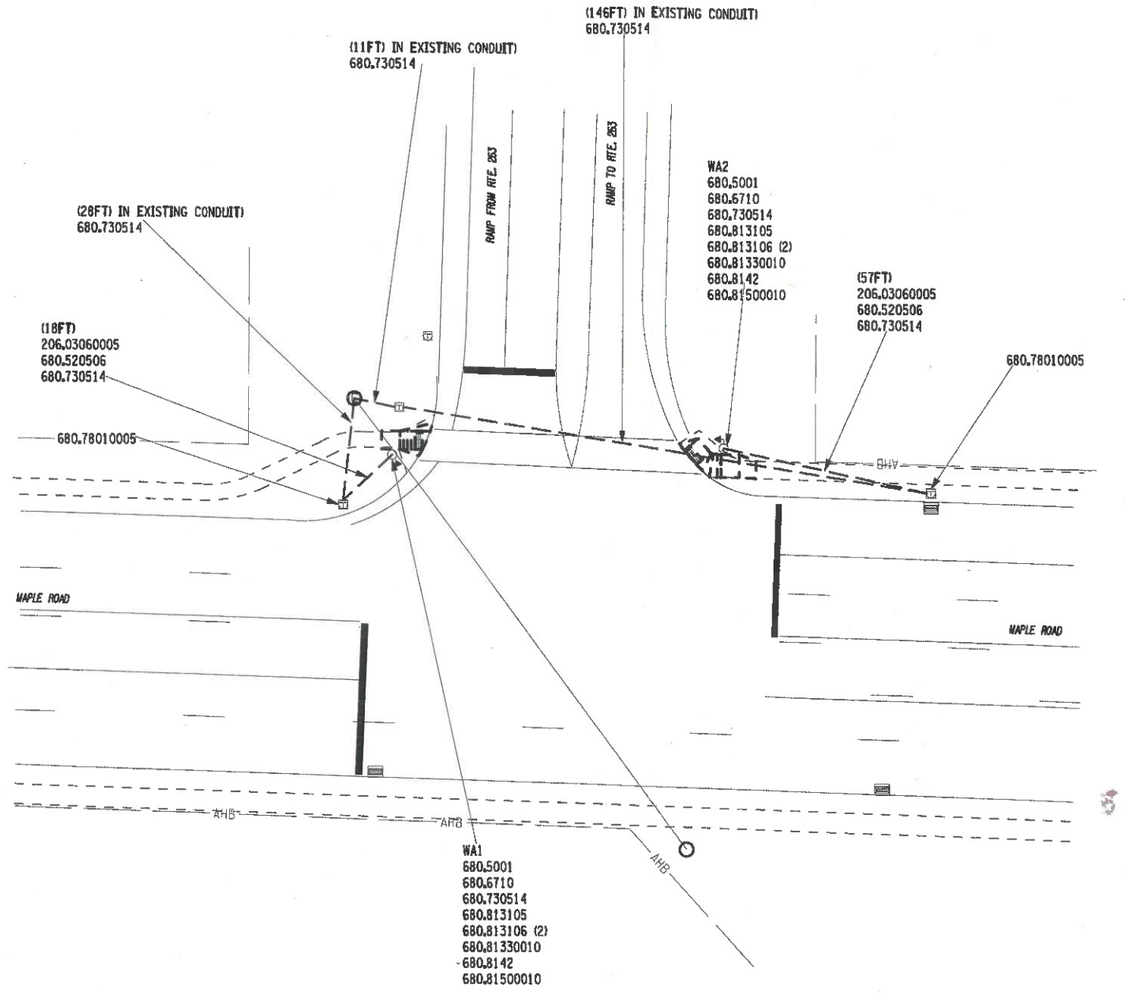
ARROW MAY FACE LEFT OR RIGHT,
IT IS CONTRACTORS RESPONSIBILITY FOR PROPER ARROW ORIENTATION.

1.) PULLBOX AND EXISTING CONDUIT LOCATIONS ON PLANS ARE SHOWN BASED ON RECORD PLANS. ACTUAL FIELD LOCATIONS MAY VARY.

2.) ITEM 680.79000805, "REMOVE TRAFFIC SIGNAL INSTALLATION" SHALL INCLUDE THE REMOVAL AND STORAGE OF THE EXISTING TRAFFIC SIGNAL EQUIPMENT. ALL EQUIPMENT, EXCEPT EXISTING PEDESTRIAN SIGNAL POLE AND CABLE, SHALL BE TURNED OVER TO THE REGION 5 NYSDOT TRAFFIC SIGNAL MAINTENANCE CREW. EXISTING PEDESTRIAN SIGNAL POLES WILL BECOME THE PROPERTY OF THE CONTRACTOR.

UNLESS OTHERWISE NOTED,
"REMOVE TRAFFIC SIGNAL INSTALLATION",
ITEM 680.79000805, SHALL INCLUDE:

-ALL EXISTING PEDESTRIAN SIGNAL CABLE
-ALL EXISTING PEDESTRIAN PUSH BUTTONS AND SIGNS
-ALL EXISITNG PEDESTRIAN SIGNAL HEADS AND BRACKETS
-ALL EXISITNG PEDESTRIAN SIGNAL POLES



AFFIX SEAL: ON:	ALTERED BY: ON:
1-21-16 	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ADA COMPLIANCE ON VARIOUS ROUTES ERIE AND NIAGARA COUNTIES COUNTY: VARIOUS REGION: 5	PIN 5808.30	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED SIGNAL 431 - GENERAL PLAN SHEET	CONTRACT NUMBER D263157 DRAWING NO. 431-1 SHEET NO. 35

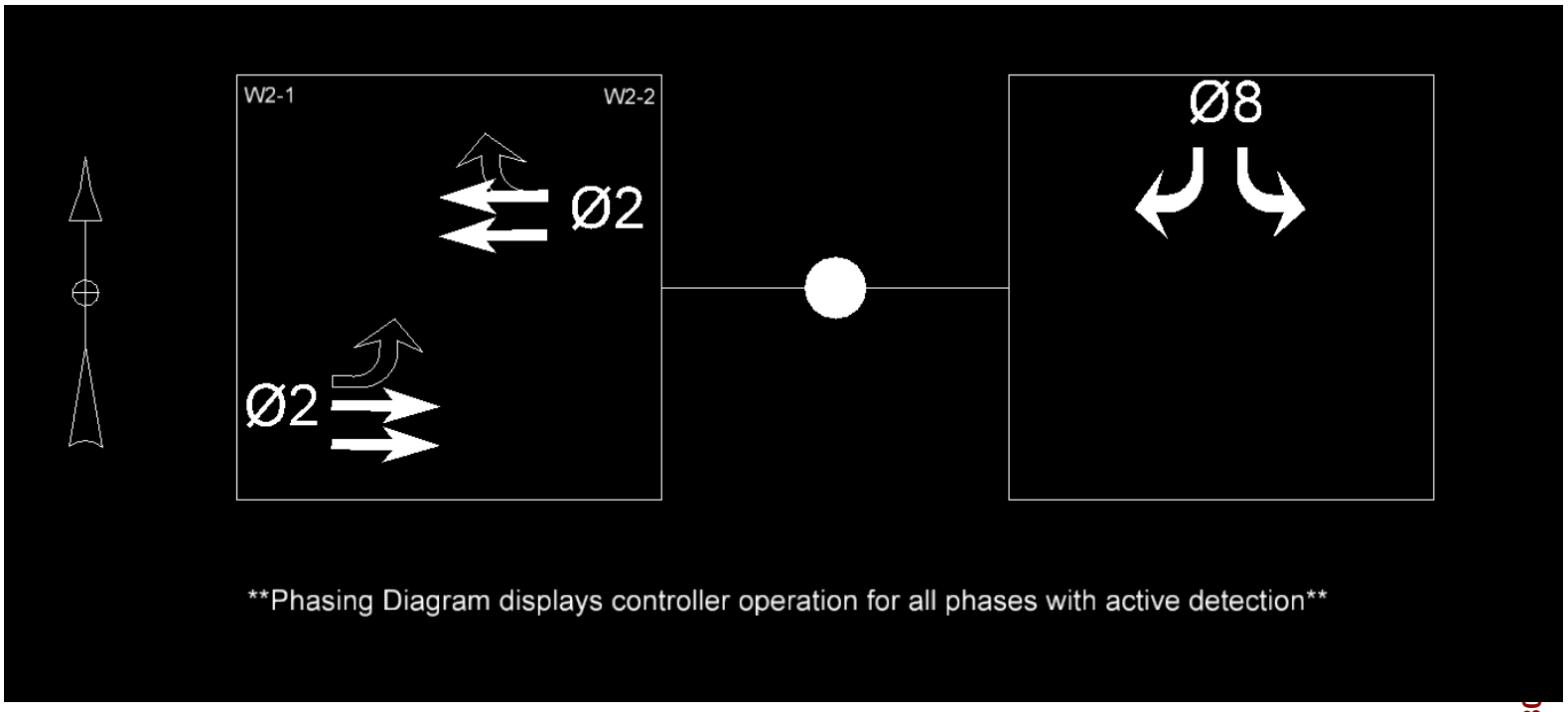
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

PROJECT MANAGER K. LORENZ
CHECK R. LUNZ
DRAFTING K. GORECKI
CHECK R. LUNZ
DESIGN K. GORECKI
JOB MANAGER M.F. CHRISTNER
DESIGN SUPERVISOR K. LORENZ

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Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Attachment: Z-2007-03_A Amended Rezoning application 101625 (30

53431

Phase Times [1.1.1]

	1	2	3	4	5	6	7	8
Min Green		10						6
Gap, Ext		4						4
Max 1		40						30
Max 2								
Yel Clearance	3.5	4.3	3.5	3.5	3.5	3.5	3.5	4.3
Red Clearance	1.5	2	1.5	1.5	1.5	1.5	1.5	1.9
Walk		7						
Ped Clearance		22						
Red Revert								
Add Initial								
Max Initial								
Time B4 Reduct								
Cars B4 Reduct								
Time To Reduce								
Reduce By								
Min Gap								
DyMaxLim								
Max Step								

Options [1.1.2]

	1	2	3	4	5	6	7	8
Enable		ON						ON
Min Recall		ON						
Max Recall								
Ped Recall								
Soft Recall								
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		ON		ON		ON		ON
Enable Simul Gap	ON	ON	ON	ON	ON	ON	ON	ON
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								

Options+ [1.1.3]

	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
Skip Red No Call								
Red Rest								
Max II								
Call Phase								
Conflicting Phase								
Omit Yellow								
Ped Delay								
Grn/Ped Delay								

53431 263 @ Maple Rd. (West)

Coordination Patterns [2.4] and Coordination Split Tables [2.7.1]

Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq
1	140	20	1	1	13	0	0	13	1	25	0	0	0	1	37	0	0	0	1
2	150	45	2	1	14	0	0	14	1	26	0	0	0	1	38	0	0	0	1
3	160	121	3	1	15	0	0	15	1	27	0	0	0	1	39	0	0	0	1
4	130	33	4	1	16	0	0	16	1	28	0	0	0	1	40	0	0	0	1
5	140	59	5	1	17	0	0	17	1	29	0	0	0	1	41	0	0	0	1
6	140	66	6	1	18	0	0	18	1	30	0	0	0	1	42	0	0	0	1
7	75	0	7	1	19	0	0	19	1	31	0	0	0	1	43	0	0	0	1
8	0	0	8	1	20	0	0	20	1	32	0	0	0	1	44	0	0	0	1
9	0	0	9	1	21	0	0	21	1	33	0	0	0	1	45	0	0	0	1
10	0	0	10	1	22	0	0	22	1	34	0	0	0	1	46	0	0	0	1
11	0	0	11	1	23	0	0	23	1	35	0	0	0	1	47	0	0	0	1
12	0	0	12	1	24	0	0	24	1	36	0	0	0	1	48	0	0	0	1

Split		1	2	3	4	5	6	7	8	Split		1	2	3	4	5	6	7	8
1	Coor	0	90	0	50	0	90	0	50	13	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
2	Coor	0	95	0	55	0	95	0	55	14	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
3	Coor	0	100	0	60	0	100	0	60	15	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
4	Coor	0	80	0	50	0	80	0	50	16	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
5	Coor	0	80	0	60	0	80	0	60	17	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
6	Coor	0	80	0	60	0	80	0	60	18	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
7	Coor	0	50	0	25	0	50	0	25	19	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	Max	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
8	Coor	0	0	0	0	0	0	0	0	20	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
9	Coor	0	0	0	0	0	0	0	0	21	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
10	Coor	0	0	0	0	0	0	0	0	22	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
11	Coor	0	0	0	0	0	0	0	0	23	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
12	Coor	0	0	0	0	0	0	0	0	24	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON

Page#	
1	8 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
1A&1B	16 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
2	Overlaps; Channel Settings; Coord Alt Table+ (values not associated with time-of-day)
3	Detection; Sample Time and Unit Parameters related to detection
4	Preemption and Alternate Phase Time and Phase Options
5	Annual Schedule
6	Day Plans; Action Tables; Coord Alt Table+ (values varied by time-of-day)
7	Communications; Secutiry; I/O Setup
8	Misc - Events/Alarms; Call/Inhibit/Redirect; P/OLAP Auto Flash; CIC; Misc Unit Param

Ring/Startup [1.1.4]

Phs	Ring	Start	Ena
1	1	Red	OF
2	1	Red	O
3	1	Red	OF
4	1	Red	OF
5	2	Red	OF
6	2	Red	OF
7	2	Red	OF
8	2	Red	O

Coord Modes [2.1]

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX 1
Force-Off	FIXED
Closed Loop	ON
Stop-in-Walk	ON
Auto Reset	ON
Expand Splt	
Ped Recycle	NO_RECYCLE
Before	TIMED
After	TIMED

Auto Flash [1.4.1]

Auto Flash	PH_OVLP
Flash Yel	45
Flash Red	20

Unit Params [1.2.1]

Phase Mode	STD8
IO Mode	User
Loc Flsh Start	Red
Start Flash(s)	0
Start AllRed(s)	6
Yellow < 3"	OFF
Display Time	20
Red Revert	3
MCE Timeout	0
Feature Profile	
Free Ring Seq	1
Auxswitch	STOPTM
SDLC Retry	0
TS2 Det Faults	ON
Auto Ped Clear	OFF
SDLC Retry	0

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Overlap 1-16 Program Parms & Parm+ [1.5.2.1] [1.5.2.2]

Overlap Conflict Lock	OFF	Overlap Lock Inhibit	OFF	Parent Ph Clearance	ON	Extra Included Ph	OFF

1	Included Ø									Type	NORMAL	9	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
A	Conflict Olap									Red	1.5	I	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
2	Included Ø									Type	NORMAL	10	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
B	Conflict Olap									Red	1.5	J	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
3	Included Ø									Type	NORMAL	11	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
C	Conflict Olap									Red	1.5	K	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
4	Included Ø									Type	NORMAL	12	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
D	Conflict Olap									Red	1.5	L	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
5	Included Ø									Type	NORMAL	13	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conf|o0l									Yel	3.5		Conflict Ø									Yel	3.5
E	Conflict Olap									Red	1.5	M	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
6	Included Ø									Type	NORMAL	14	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
F	Conflict Olap									Red	1.5	N	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
7	Included Ø									Type	NORMAL	15	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
G	Conflict Olap									Red	1.5	O	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
8	Included Ø									Type	NORMAL	16	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
H	Conflict Olap									Red	1.5	P	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	

Channel Settings [1.8.1]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Phase / Olap #		2						8		8						2								
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	PED	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
Channel Flash	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
Alt Hz																								

Channel+ Settings [1.8.4]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Flash Red+																								
Flash Yellow+																								
Flash Green+																								
Flash Inh Red+																								
Olap Ovrd																								

Coord Transition, CoorPhs [2.5]

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	RetHld	Float	Min Veh Perm	Min Ped Perm
1	12	22							EndGRN	ON			ON
2	12	22							EndGRN	ON			ON
3	12	22							EndGRN	ON			ON
4	12	22							EndGRN	ON			ON
5	12	22							EndGRN	ON			ON
6	12	22							EndGRN	ON			ON
7	12	22							EndGRN	ON			ON
8	12	22							EndGRN				
9	12	22							EndGRN				
10	12	22							EndGRN				
11	12	22							EndGRN				
12	12	22							EndGRN				
13	12	22							EndGRN				
14	12	22							EndGRN				
15	12	22							EndGRN				
16	12	22							EndGRN				
17	12	22							EndGRN				
18	12	22							EndGRN				
19	12	22							EndGRN				
20	12	22							EndGRN				
21	12	22							EndGRN				
22	12	22							EndGRN				
23	12	22							EndGRN				
24	12	22							EndGRN				
25									BegGRN				
26									BegGRN				
27									BegGRN				
28									BegGRN				
29									BegGRN				
30									BegGRN				
31									BegGRN				
32									BegGRN				
33									BegGRN				
34									BegGRN				
35									BegGRN				
36									BegGRN				
37									BegGRN				
38									BegGRN				
39									BegGRN				
40									BegGRN				
41									BegGRN				
42									BegGRN				
43									BegGRN				
44									BegGRN				
45									BegGRN				
46									BegGRN				
47									BegGRN				
48									BegGRN				

Channel Params[1.8.3]

C1 IO Mode	User	Single BIU Map	DEFAULT	Invert Rail Input	OFF

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
1	2		5				45	50	2
2	2		5				45	50	2
3	2		5				45	50	2
4	2						45	50	2
5	8						45	50	2
6	8						45	50	2
7							45	50	2
8							45	50	2
9							45	50	2
10							45	50	2
11							45	50	2
12							45	50	2
13							45	50	2
14							45	50	2
15							45	50	2
16							45	50	2
17							45	50	2
18							45	50	2
19							45	50	
20							45	50	
21							45	50	
22							45	50	
23							45	50	
24							45	50	
25							45	50	
26							45	50	
27							45	50	
28							45	50	
29							45	50	
30							45	50	
31							45	50	
32							45	50	

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
33							45	50	
34							45	50	
35							45	50	
36							45	50	
37							45	50	
38							45	50	
39							45	50	
40							45	50	
41							45	50	
42							45	50	
43							45	50	
44							45	50	
45							45	50	
46							45	50	
47							45	50	
48							45	50	
49							45	50	
50							45	50	
51							45	50	
52							45	50	
53							45	50	
54							45	50	
55							45	50	
56							45	50	
57							45	50	
58							45	50	
59							45	50	
60							45	50	
61							45	50	
62							45	50	
63							45	50	
64							45	50	

Vehicle Options 1-64 [5.2]

Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol
1	ON	ON		ON				
2	ON	ON		ON				
3	ON	ON		ON				
4	ON	ON		ON				
5	ON	ON		ON				
6	ON	ON		ON				
7	ON	ON		ON				
8	ON	ON		ON				
9	ON	ON		ON				
10	ON	ON		ON				
11	ON	ON		ON				
12	ON	ON		ON				
13	ON	ON		ON				
14	ON	ON		ON				
15	ON	ON		ON				
16	ON	ON		ON				
17	ON	ON		ON				
18	ON	ON		ON				
19	ON	ON		ON				
20	ON	ON		ON				
21	ON	ON		ON				
22	ON	ON		ON				
23	ON	ON		ON				
24	ON	ON		ON				
25	ON	ON		ON				
26	ON	ON		ON				
27	ON	ON		ON				
28	ON	ON		ON				
29	ON	ON		ON				
30	ON	ON		ON				
31	ON	ON		ON				
32	ON	ON		ON				

Vehicle Options 1-64 [5.2]

Det #	vol	occ	Yell Lock	Red Lock	Ext	Add Init	Que	Call
33					ON	ON		ON
34					ON	ON		ON
35					ON	ON		ON
36					ON	ON		ON
37					ON	ON		ON
38					ON	ON		ON
39					ON	ON		ON
40					ON	ON		ON
41					ON	ON		ON
42					ON	ON		ON
43					ON	ON		ON
44					ON	ON		ON
45					ON	ON		ON
46					ON	ON		ON
47					ON	ON		ON
48					ON	ON		ON
49					ON	ON		ON
50					ON	ON		ON
51					ON	ON		ON
52					ON	ON		ON
53					ON	ON		ON
54					ON	ON		ON
55					ON	ON		ON
56					ON	ON		ON
57					ON	ON		ON
58					ON	ON		ON
59					ON	ON		ON
60					ON	ON		ON
61					ON	ON		ON
62					ON	ON		ON
63					ON	ON		ON
64					ON	ON		ON

Parameters+ 1-64 [5.3]

Det #	oc G	oc Y	oc R	Dlay 1	Dlay 2	Type
1						NORM
2						NORM
3						NORM
4						NORM
5						NORM
6						NORM
7						NORM
8						NORM
9						NORM
10						NORM
11						NORM
12						NORM
13						NORM
14						NORM
15						NORM
16						NORM
17						NORM
18						NORM
19						NORM
20						NORM
21						NORM
22						NORM
23						NORM
24						NORM
25						NORM
26						NORM
27						NORM
28						NORM
29						NORM
30						NORM
31						NORM
32						NORM

Parameters+ 1-64 [5.3]

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
33						NORM	
34						NORM	
35						NORM	
36						NORM	
37						NORM	
38						NORM	
39						NORM	
40						NORM	
41						NORM	
42						NORM	
43						NORM	
44						NORM	
45						NORM	
46						NORM	
47						NORM	
48						NORM	
49						NORM	
50						NORM	
51						NORM	
52						NORM	
53						NORM	
54						NORM	
55						NORM	
56						NORM	
57						NORM	
58						NORM	
59						NORM	
60						NORM	
61						NORM	
62						NORM	
63						NORM	
64						NORM	

Ped Det Parms [5.4]

Det #	Call Ø	No Act	Max Pres	Err Cnt
1			15	
2			15	
3	2		15	
4			15	
5			15	
6			15	
7			15	
8			15	

Unit Paramters [1.2.1]

TS2 Det Faults	

Vol/Occ Report Parm [1.5.8]

Vol/Occ Period Minutes
Vol/Occ Period Minutes

263 @ Maple Rd. (West)

8/22/2025 Pa

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Annual Schedule [4.3] — **Month of Year** — **Day of Week** — **Date**

	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Day Plan	Link To
1	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON								ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	1	
2	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON								ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	2	
3	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	3	
4																																																		1	
5																																																			1	
6																																																		1	
7																																																		1	
8																																																		1	
9																																																		1	
10																																																		1	
11																																																		1	
12																																																		1	
13																																																		1	
14																																																		1	
15																																																		1	
16																																																		1	
17																																																		1	
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19																																																		1	
20																																																		1	
21																																																		1	
22																																																		1	
23																																																		1	
24																																																		1	

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Day Plans [4.4]

Day Plan 1

	Hour	Min	Act		Hour	Min	Act
1	7	0	1	9	0	0	0
2	10	0	2	10	0	0	0
3	16	0	3	11	0	0	0
4	20	0	25	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 2

	Hour	Min	Act		Hour	Min	Act
1	7	0	4	9	0	0	0
2	10	0	5	10	0	0	0
3	16	0	6	11	0	0	0
4	20	0	25	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 3

	Hour	Min	Act		Hour	Min	Act
1	7	0	7	9	0	0	0
2	20	0	25	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 4

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 5

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 6

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 7

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 8

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 9

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 10

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 11

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 12

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 13

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 14

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 15

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Action Table [4.5]

Act#	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8
1	1											
2	2											
3	3											
4	4											
5	5											
6	6											
7	7											
8	8											
9	9											
10	10											
11	11											
12	12											
13	13											
14	14											
15	15											
16	16											
17	17											
18	18											
19	19											
20	20											
21	21											
22	22											
23	23											
24	24											
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
48												
98												
99												
100	255											

Coord Alternate Tables - Pat+ [2.6]

Pat#	ØOpt	ØTime	DetG	Call Inh	CIC	CNA1	Overlap Off 1	2	3	4	5	6	7	8	Dia	Max2
1	1	1													DFT	
2	1	1													DFT	
3	1	1													DFT	
4	1	1													DFT	
5	1	1													DFT	
6	1	1													DFT	
7															DFT	
8															DFT	
9															DFT	
10															DFT	
11															DFT	
12															DFT	
13															DFT	
14															DFT	
15															DFT	
16															DFT	
17															DFT	
18															DFT	
19															DFT	
20															DFT	
21															DFT	
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28															DFT	
29															DFT	
30															DFT	
31															DFT	
32															DFT	
33															DFT	
34															DFT	
35															DFT	
36															DFT	
37															DFT	
38															DFT	
39															DFT	
40															DFT	
41															DFT	
42															DFT	
43															DFT	
44															DFT	
45															DFT	
46															DFT	
47															DFT	
48															DFT	

53431 263 @ Maple Rd. (West)

08/22/25 Page 6

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

QUANTITY AND ITEM LIST			
SIGNAL 432			
ITEM NO.	DESCRIPTION	UNIT	QTY
206.03050005	CONDUIT EXCAV & BACKFILL (IN ROADWAY)	FT	63
206.03060005	CONDUIT EXCAV & BACKFILL (NOT IN ROADWAY)	FT	190
619.1612	MAINTAIN TRAFFIC SIGNAL EQUIP (REQ B)	INT MO	1
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	2
680.51000105	ALTER ELEVATION OF PULLBOX	EA	1
680.50500005	REMOVE POLE FOUNDATION	EA	2
680.510301	PULLBOX-CIRC., 24" DIA. REINF. CONC.	EA	1
680.520506	CONDUIT, RIGID PLASTIC, CLASS 1, 2"	FT	253
680.6710	SIGNAL POLE - TOP MOUNT (10FT)	EA	4
680.730514	SIGNAL CABLE, 5 CONDUCTOR, 14 AWG	FT	938
680.78010005	ALTER PULLBOX FOR CONDUIT	EA	5
680.79000905	REMOVE TRAFFIC SIGNAL INSTALLATION	EA	1
680.813105	PEDESTRIAN SIGNAL MODULE 12IN, BI-MODAL HAND/MAN	EA	4
680.813106	PEDESTRIAN SIGNAL SECTION - POLYCARBONITE, TYPE 1 12IN	EA	8
680.81330010	AUDIBLE PEDESTRIAN SIGNAL	EA	4
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EA	4
680.81500010	PEDESTRIAN COUNT DOWN TIMER	EA	4



R10-3i

NEW PEDESTRIAN SIGNS
SHALL BE SIGN NUMBER R10-3i FROM THE MUTCD.

"RTE 263 RAMP" FOR WA1, WA2, WA3 & WA4

ARROW MAY FACE LEFT OR RIGHT,
IT IS CONTRACTORS RESPONSIBILITY FOR PROPER ARROW ORIENTATION.

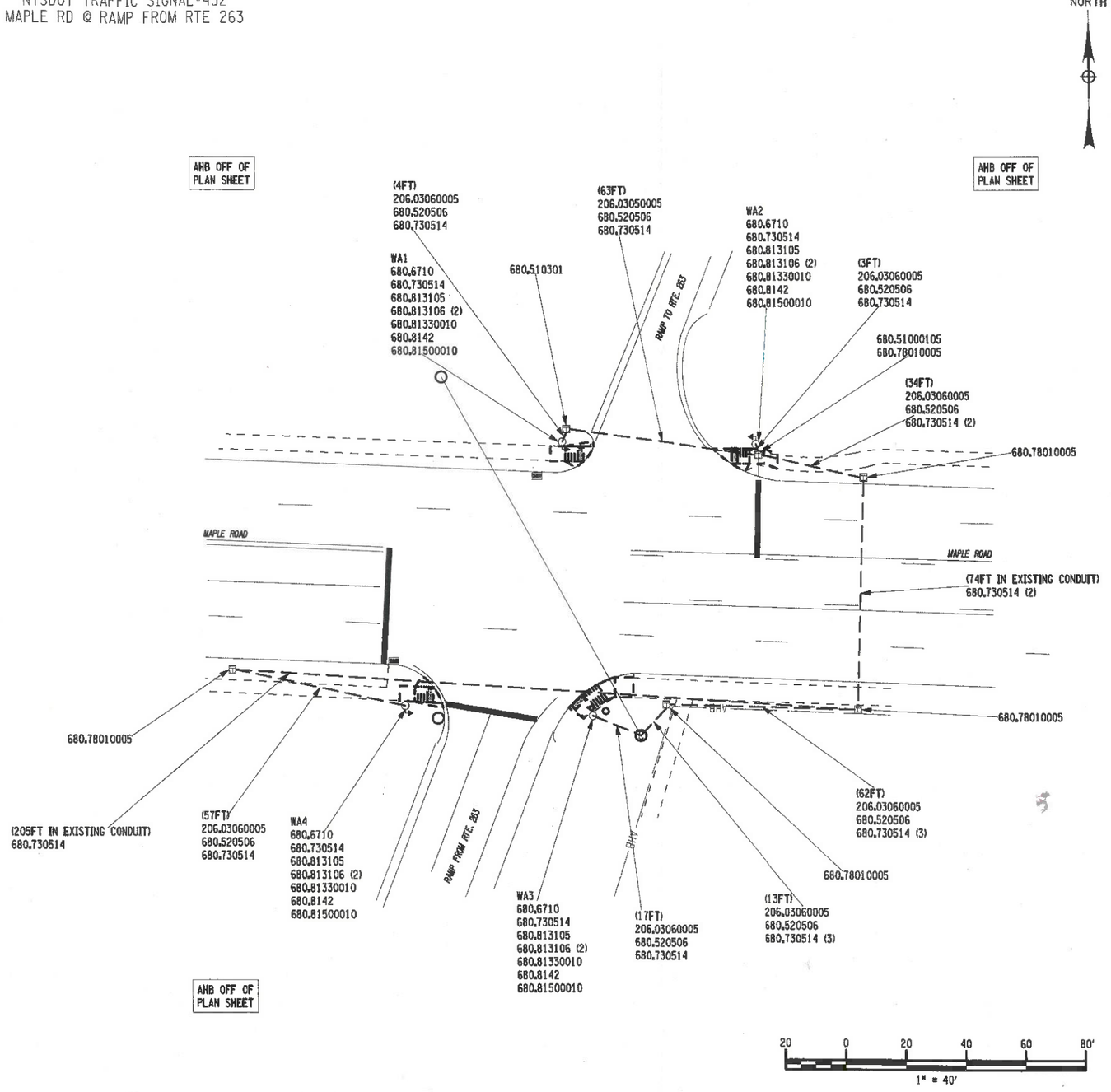
1.) PULLBOX AND EXISTING CONDUIT LOCATIONS ON PLANS ARE SHOWN BASED ON RECORD PLANS. ACTUAL FIELD LOCATIONS MAY VARY.

2.) ITEM 680.79000905, "REMOVE TRAFFIC SIGNAL INSTALLATION" SHALL INCLUDE THE REMOVAL AND STORAGE OF THE EXISTING TRAFFIC SIGNAL EQUIPMENT. ALL EQUIPMENT, EXCEPT EXISTING PEDESTRIAN SIGNAL POLE AND CABLE, SHALL BE TURNED OVER TO THE REGION 5 NYSDOT TRAFFIC SIGNAL MAINTENANCE CREW. EXISTING PEDESTRIAN SIGNAL POLES WILL BECOME THE PROPERTY OF THE CONTRACTOR.

UNLESS OTHERWISE NOTED,
"REMOVE TRAFFIC SIGNAL INSTALLATION",
ITEM 680.79000905, SHALL INCLUDE:

-ALL EXISTING PEDESTRIAN SIGNAL CABLE
-ALL EXISTING PEDESTRIAN PUSH BUTTONS AND SIGNS
-ALL EXISITNG PEDESTRIAN SIGNAL HEADS AND BRACKETS
-ALL EXISITNG PEDESTRIAN SIGNAL POLES

NYSDOT TRAFFIC SIGNAL #432
MAPLE RD @ RAMP FROM RTE 263



AFFIX SEAL: ON:	ALTERED BY: ON:
1-21-16 STATE OF NEW YORK RICHARD A. [illegible] 076315 LICENSED PROFESSIONAL ENGINEER	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ADA COMPLIANCE ON VARIOUS ROUTES ERIE AND NIAGARA COUNTIES COUNTY: VARIOUS REGION: 5	PIN 5808.30	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED SIGNAL 432 - GENERAL PLAN SHEET	CONTRACT NUMBER D263157 DRAWING NO. 432-1 SHEET NO. 36

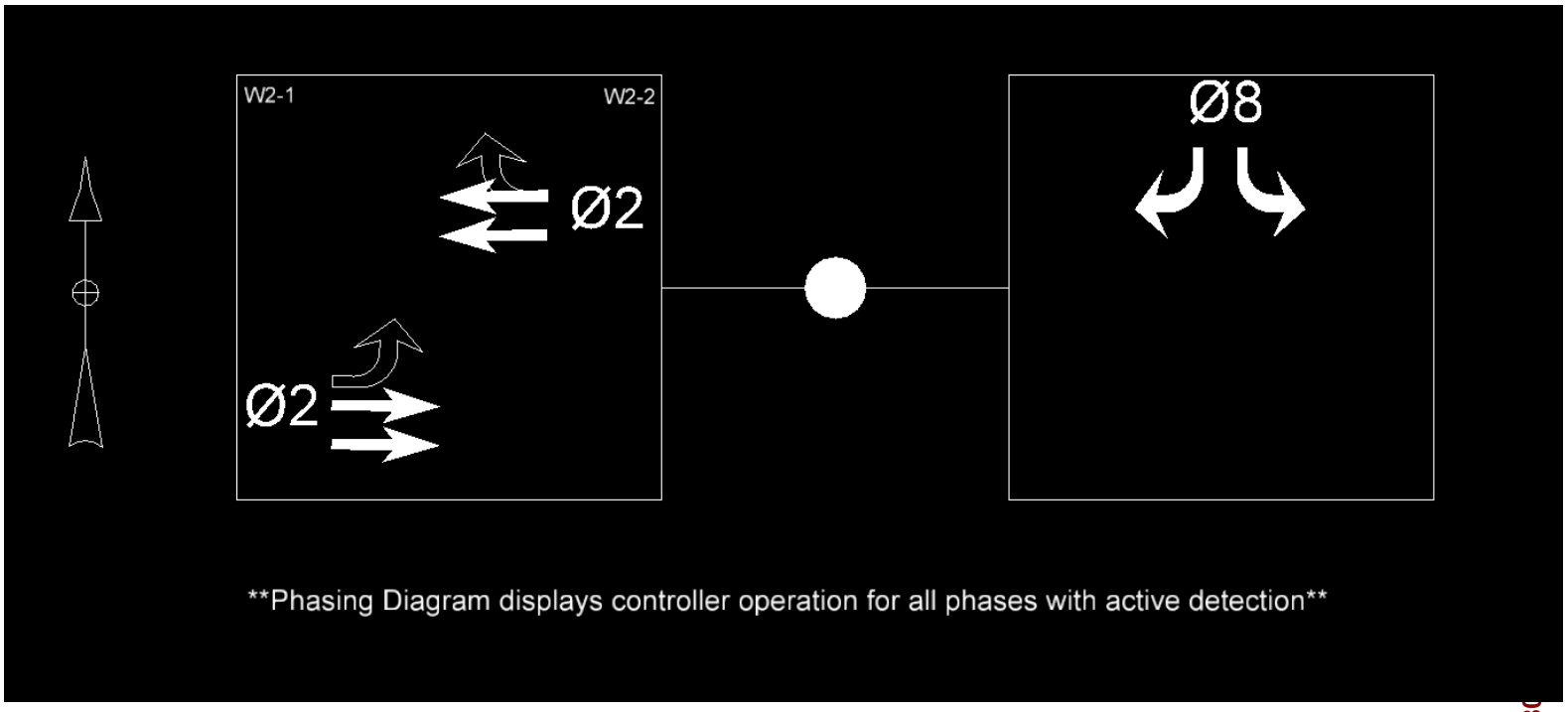
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

PROJECT MANAGER K. LORENZ
CHECK R. LUNZ
DRAFTING K. GORECKI
CHECK R. LUNZ
DESIGN K. GORECKI
JOB MANAGER M.F. CHRISTNER
DESIGN SUPERVISOR K. LORENZ

FILE NAME = 580830_CPN_SIG432_1.dgn
DATE/TIME = 12-JAN-2016 11:32
USER = rlunz

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Attachment: Z-2007-03_A Amended Rezoning application 101625 (30

53432

Phase Times [1.1.1]

	1	2	3	4	5	6	7	8
Min Green		20		6				
Gap, Ext		4		2				
Max 1		40		30				
Max 2								
Yel Clearance	3.5	4.3	3.5	4.3	3.5	3.5	3.5	3.5
Red Clearance	1.5	1.7	1.5	1.9	1.5	1.5	1.5	1.5
Walk		7						
Ped Clearance		16						
Red Revert								
Add Initial								
Max Initial								
Time B4 Reduct								
Cars B4 Reduct								
Time To Reduce								
Reduce By								
Min Gap								
DyMaxLim								
Max Step								

Options [1.1.2]

	1	2	3	4	5	6	7	8
Enable		ON		ON				
Min Recall		ON						
Max Recall								
Ped Recall								
Soft Recall								
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		ON		ON		ON		ON
Enable Simul Gap	ON	ON	ON	ON	ON	ON	ON	ON
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								

Options+ [1.1.3]

	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
Skip Red No Call								
Red Rest								
Max II								
Call Phase								
Conflicting Phase								
Omit Yellow								
Ped Delay								
Grn/Ped Delay								

53432 263 @ Maple Rd (East)

Coordination Patterns [2.4] and Coordination Split Tables [2.7.1]

Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq
1	140	12	1	1	13	0	0	13	1	25	0	0	0	1	37	0	0	0	1
2	150	35	2	1	14	0	0	14	1	26	0	0	0	1	38	0	0	0	1
3	160	80	3	1	15	0	0	15	1	27	0	0	0	1	39	0	0	0	1
4	130	39	4	1	16	0	0	16	1	28	0	0	0	1	40	0	0	0	1
5	140	43	5	1	17	0	0	17	1	29	0	0	0	1	41	0	0	0	1
6	140	67	6	1	18	0	0	18	1	30	0	0	0	1	42	0	0	0	1
7	0	0	7	1	19	0	0	19	1	31	0	0	0	1	43	0	0	0	1
8	0	0	8	1	20	0	0	20	1	32	0	0	0	1	44	0	0	0	1
9	0	0	9	1	21	0	0	21	1	33	0	0	0	1	45	0	0	0	1
10	0	0	10	1	22	0	0	22	1	34	0	0	0	1	46	0	0	0	1
11	0	0	11	1	23	0	0	23	1	35	0	0	0	1	47	0	0	0	1
12	0	0	12	1	24	0	0	24	1	36	0	0	0	1	48	0	0	0	1

Split		1	2	3	4	5	6	7	8	Split		1	2	3	4	5	6	7	8
1	Coor	0	74	0	66	0	0	0	0	13	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
2	Coor	0	85	0	65	0	0	0	0	14	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
3	Coor	0	90	0	70	0	0	0	0	15	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
4	Coor	0	65	0	65	0	0	0	0	16	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
5	Coor	0	80	0	60	0	0	0	0	17	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
6	Coor	0	72	0	68	0	0	0	0	18	Coor	0	0	0	0	0	0	0	0
	2	NON	Max	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
7	Coor	0	0	0	0	0	0	0	0	19	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
8	Coor	0	0	0	0	0	0	0	0	20	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
9	Coor	0	0	0	0	0	0	0	0	21	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
10	Coor	0	0	0	0	0	0	0	0	22	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
11	Coor	0	0	0	0	0	0	0	0	23	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
12	Coor	0	0	0	0	0	0	0	0	24	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON

Page#	
1	8 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
1A&1B	16 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
2	Overlaps; Channel Settings; Coord Alt Table+ (values not associated with time-of-day)
3	Detection; Sample Time and Unit Parameters related to detection
4	Preemption and Alternate Phase Time and Phase Options
5	Annual Schedule
6	Day Plans; Action Tables; Coord Alt Table+ (values varied by time-of-day)
7	Communications; Secutiry; I/O Setup
8	Misc - Events/Alarms; Call/Inhibit/Redirect; P/OLAP Auto Flash; CIC; Misc Unit Param

Ring/Startup [1.1.4]

Phs	Ring	Start	Ena
1	1	Red	On
2	1	Red	On
3	1	Red	On
4	1	Red	On
5	2	Red	On
6	2	Red	On
7	2	Red	On
8	2	Red	On

Coord Modes [2.1]

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX 1
Force-Off	FIXED
Closed Loop	ON
Stop-in-Walk	ON
Auto Reset	ON
Expand Splt	
Ped Recycle	NO_RECYCLE
Before	TIMED
After	TIMED

Auto Flash [1.4.1]

Auto Flash	PH_OVLP
Flash Yel	45
Flash Red	20

Unit Params [1.2.1]

Phase Mode	STD8
IO Mode	User
Loc Flsh Start	Red
Start Flash(s)	0
Start AllRed(s)	6
Yellow < 3"	OFF
Display Time	20
Red Revert	3
MCE Timeout	0
Feature Profile	
Free Ring Seq	1
Auxswitch	STOPTM
SDLC Retry	0
TS2 Det Faults	ON
Auto Ped Clear	OFF
SDLC Retry	0

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Overlap 1-16 Program Parms & Parm+ [1.5.2.1] [1.5.2.2]

Overlap Conflict Lock	OFF	Overlap Lock Inhibit	OFF	Parent Ph Clearance	ON	Extra Included Ph	OFF

1	Included Ø									Type	NORMAL	9	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
A	Conflict Olap									Red	1.5	I	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
2	Included Ø									Type	NORMAL	10	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
B	Conflict Olap									Red	1.5	J	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
3	Included Ø									Type	NORMAL	11	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
C	Conflict Olap									Red	1.5	K	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
4	Included Ø									Type	NORMAL	12	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
D	Conflict Olap									Red	1.5	L	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
5	Included Ø									Type	NORMAL	13	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conf o0l									Yel	3.5		Conflict Ø									Yel	3.5
E	Conflict Olap									Red	1.5	M	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
6	Included Ø									Type	NORMAL	14	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
F	Conflict Olap									Red	1.5	N	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
7	Included Ø									Type	NORMAL	15	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
G	Conflict Olap									Red	1.5	O	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
8	Included Ø									Type	NORMAL	16	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
H	Conflict Olap									Red	1.5	P	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	

Channel Settings [1.8.1]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Phase / Olap #		2		4									2		2									
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	PED	VEH	PED	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
Channel Flash	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
Alt Hz																								

Channel+ Settings [1.8.4]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Flash Red+																								
Flash Yellow+																								
Flash Green+																								
Flash Inh Red+																								
Olap Ovrd																								

Coord Transition, CoorPhs [2.5]

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	RetHld	Float	Min Veh Perm	Min Ped Perm
1	12	22							EndGRN	ON			ON
2	12	22							EndGRN	ON			ON
3	12	22							EndGRN	ON			ON
4	12	22							EndGRN	ON			ON
5	12	22							EndGRN	ON			ON
6	12	22							EndGRN	ON			ON
7	12	22							EndGRN				
8	12	22							EndGRN				
9	12	22							EndGRN				
10	12	22							EndGRN				
11	12	22							EndGRN				
12	12	22							EndGRN				
13	12	22							EndGRN				
14	12	22							EndGRN				
15	12	22							EndGRN				
16	12	22							EndGRN				
17	12	22							EndGRN				
18	12	22							EndGRN				
19	12	22							EndGRN				
20	12	22							EndGRN				
21	12	22							EndGRN				
22	12	22							EndGRN				
23	12	22							EndGRN				
24	12	22							EndGRN				
25									BegGRN				
26									BegGRN				
27									BegGRN				
28									BegGRN				
29									BegGRN				
30									BegGRN				
31									BegGRN				
32									BegGRN				
33									BegGRN				
34									BegGRN				
35									BegGRN				
36									BegGRN				
37									BegGRN				
38									BegGRN				
39									BegGRN				
40									BegGRN				
41									BegGRN				
42									BegGRN				
43									BegGRN				
44									BegGRN				
45									BegGRN				
46									BegGRN				
47									BegGRN				
48									BegGRN				

Channel Params[1.8.3]

C1 IO Mode	User	Single BIU Map	DEFAULT	Invert Rail Input	OFF

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
1	2						45	50	2
2	2						45	50	2
3	2						45	50	2
4	2						45	50	2
5	4						45	50	2
6	4						45	50	2
7							45	50	2
8							45	50	2
9							45	50	2
10							45	50	2
11							45	50	2
12							45	50	2
13							45	50	2
14							45	50	2
15							45	50	2
16							45	50	2
17							45	50	2
18							45	50	2
19							45	50	
20							45	50	
21							45	50	
22							45	50	
23							45	50	
24							45	50	
25							45	50	
26							45	50	
27							45	50	
28							45	50	
29							45	50	
30							45	50	
31							45	50	
32							45	50	

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
33							45	50	
34							45	50	
35							45	50	
36							45	50	
37							45	50	
38							45	50	
39							45	50	
40							45	50	
41							45	50	
42							45	50	
43							45	50	
44							45	50	
45							45	50	
46							45	50	
47							45	50	
48							45	50	
49							45	50	
50							45	50	
51							45	50	
52							45	50	
53							45	50	
54							45	50	
55							45	50	
56							45	50	
57							45	50	
58							45	50	
59							45	50	
60							45	50	
61							45	50	
62							45	50	
63							45	50	
64							45	50	

Vehicle Options 1-64 [5.2]

Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol
1	ON	ON		ON				
2	ON	ON		ON				
3	ON	ON		ON				
4	ON	ON		ON				
5	ON	ON		ON				
6	ON	ON		ON				
7	ON	ON		ON				
8	ON	ON		ON				
9	ON	ON		ON				
10	ON	ON		ON				
11	ON	ON		ON				
12	ON	ON		ON				
13	ON	ON		ON				
14	ON	ON		ON				
15	ON	ON		ON				
16	ON	ON		ON				
17	ON	ON		ON				
18	ON	ON		ON				
19	ON	ON		ON				
20	ON	ON		ON				
21	ON	ON		ON				
22	ON	ON		ON				
23	ON	ON		ON				
24	ON	ON		ON				
25	ON	ON		ON				
26	ON	ON		ON				
27	ON	ON		ON				
28	ON	ON		ON				
29	ON	ON		ON				
30	ON	ON		ON				
31	ON	ON		ON				
32	ON	ON		ON				

Vehicle Options 1-64 [5.2]

Det #	vol	occ	Yell Lock	Red Lock	Ext	Add Init	Que	Call
33					ON	ON		ON
34					ON	ON		ON
35					ON	ON		ON
36					ON	ON		ON
37					ON	ON		ON
38					ON	ON		ON
39					ON	ON		ON
40					ON	ON		ON
41					ON	ON		ON
42					ON	ON		ON
43					ON	ON		ON
44					ON	ON		ON
45					ON	ON		ON
46					ON	ON		ON
47					ON	ON		ON
48					ON	ON		ON
49					ON	ON		ON
50					ON	ON		ON
51					ON	ON		ON
52					ON	ON		ON
53					ON	ON		ON
54					ON	ON		ON
55					ON	ON		ON
56					ON	ON		ON
57					ON	ON		ON
58					ON	ON		ON
59					ON	ON		ON
60					ON	ON		ON
61					ON	ON		ON
62					ON	ON		ON
63					ON	ON		ON
64					ON	ON		ON

Parameters+ 1-64 [5.3]

Det #	oc G	oc Y	oc R	Dlay 1	Dlay 2	Type
1						NORM
2						NORM
3						NORM
4						NORM
5						NORM
6						NORM
7						NORM
8						NORM
9						NORM
10						NORM
11						NORM
12						NORM
13						NORM
14						NORM
15						NORM
16						NORM
17						NORM
18						NORM
19						NORM
20						NORM
21						NORM
22						NORM
23						NORM
24						NORM
25						NORM
26						NORM
27						NORM
28						NORM
29						NORM
30						NORM
31						NORM
32						NORM

Parameters+ 1-64 [5.3]

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
33						NORM	
34						NORM	
35						NORM	
36						NORM	
37						NORM	
38						NORM	
39						NORM	
40						NORM	
41						NORM	
42						NORM	
43						NORM	

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
44						NORM	
45						NORM	
46						NORM	
47						NORM	
48						NORM	
49						NORM	
50						NORM	
51						NORM	
52						NORM	
53						NORM	
54						NORM	

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
55						NORM	
56						NORM	
57						NORM	
58						NORM	
59						NORM	
60						NORM	
61						NORM	
62						NORM	
63						NORM	
64						NORM	

263 @ Maple Rd (East)

Ped Det Parms [5.4]

Det #	Call Ø	No Act	Max Pres	Err Cnt
1	2		15	
2			15	
3	2		15	
4			15	
5			15	
6			15	
7			15	
8			15	

Unit Paramters [1.2.1]

TS2 Det Faults	

Vol/Occ Report Parm [1.5.8]

Vol/Occ Period Minutes
Vol/Occ Period Minutes

8/22/2025 Pa

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Annual Schedule [4.3] — **Month of Year** — **Day of Week** — **Date**

	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Day Plan	Link To
1	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON		ON	ON	ON	ON	ON		ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	1	
2	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON						ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	2	
3																																																		1	
4																																																			1	
5																																																		1	
6																																																		1	
7																																																		1	
8																																																		1	
9																																																		1	
10																																																		1	
11																																																		1	
12																																																		1	
13																																																		1	
14																																																		1	
15																																																		1	
16																																																		1	
17																																																		1	
18																																																		1	
19																																																		1	
20																																																		1	
21																																																		1	
22																																																		1	
23																																																		1	
24																																																		1	

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Day Plans [4.4]

Day Plan 1

	Hour	Min	Act		Hour	Min	Act
1	7	0	1	9	0	0	0
2	10	0	2	10	0	0	0
3	16	0	3	11	0	0	0
4	20	0	25	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 2

	Hour	Min	Act		Hour	Min	Act
1	7	0	4	9	0	0	0
2	10	0	5	10	0	0	0
3	16	0	6	11	0	0	0
4	20	0	25	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 3

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 4

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 5

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 6

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 7

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 8

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 9

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 10

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 11

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 12

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 13

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 14

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 15

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Action Table [4.5]

Act#	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8
1	1											
2	2											
3	3											
4	4											
5	5											
6	6											
7	7											
8	8											
9	9											
10	10											
11	11											
12	12											
13	13											
14	14											
15	15											
16	16											
17	17											
18	18											
19	19											
20	20											
21	21											
22	22											
23	23											
24	24											
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
48												
98												
99												
100	255											

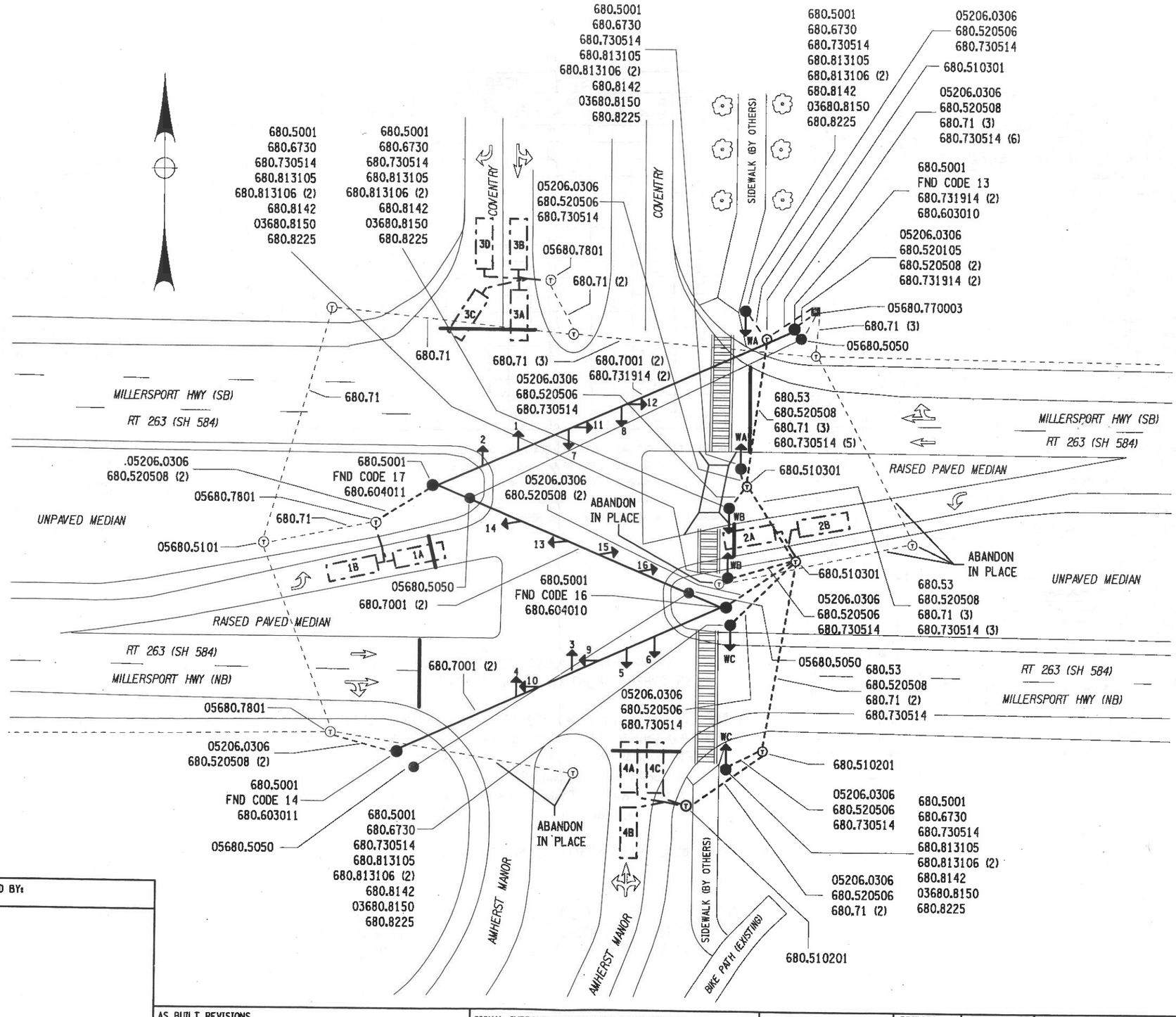
Coord Alternate Tables - Pat+ [2.6]

Pat#	ØOpt	ØTime	DetG	Call Inh	CIC	CNA1	Overlap Off 1	2	3	4	5	6	7	8	Dia	Max2
1		1													DFT	
2		1													DFT	
3	1	1													DFT	
4		1													DFT	
5		1													DFT	
6	1	1													DFT	
7															DFT	
8															DFT	
9															DFT	
10															DFT	
11															DFT	
12															DFT	
13															DFT	
14															DFT	
15															DFT	
16															DFT	
17															DFT	
18															DFT	
19															DFT	
20															DFT	
21															DFT	
22															DFT	
23															DFT	
24															DFT	
25															DFT	
26															DFT	
27															DFT	
28															DFT	
29															DFT	
30															DFT	
31															DFT	
32															DFT	
33															DFT	
34															DFT	
35															DFT	
36															DFT	
37															DFT	
38															DFT	
39															DFT	
40															DFT	
41															DFT	
42															DFT	
43															DFT	
44															DFT	
45															DFT	
46															DFT	
47															DFT	
48															DFT	

53432 263 @ Maple Rd (East)

08/22/25 Page 6

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



PREPARED BY: ON:	ALTERED BY: ON:

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: SIG417.DGN

SIGNAL IMPROVEMENTS/INSTALLATION PROJECT SFY 09/10
VARIOUS LOCATIONS IN REGION 5

COUNTY: ERIE

PIN 5805.90
PS&E DATE 3/17/09

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

RT 263 MILLERSPORT AT COVENTRY

NYSDOT TRAFFIC SIGNAL #417 (ERIE)

CONTRACT NUMBER D261074

DRAWING NO. SIG-11

NEW YORK STATE DEPARTMENT OF TRA

DESIGN SUPERVISOR S. S. VAIDYA JOB MANAGER R. LUNZ DESIGNED BY PETER CALABRESE CHECKED BY RICHARD LUNZ
ESTIMATED BY P.CALABRESE DRAFTED BY PETER CALABRESE CHECKED BY R. LUNZ

FILE NAME = SIG417.DGN
DATE/TIME = 17-MAR-2009 11:03
USER = fdegeorge

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ITEM	QUANTITY AND ITEM LIST DESCRIPTION	UNIT	Project Total QTY
05206.0306	CONDUIT EXCAV & BACKFILL (NOT IN ROADWAY)	M	82.00
619.1611	MAINTAIN TRAFFIC SIGNAL EQUIP (REQ A)	INT MO	12.00
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CM	19.00
05680.5050	REMOVE POLE FOUNDATION	M	1.20
05680.5101	ALTER ELEVATION OF PULLBOX	EACH	1.00
680.510201	PULLBOX-CIRC., 450 mm DIA, REINF. CONC.	EACH	2.00
680.510301	PULLBOX-CIRC., 600 mm DIA, REINF. CONC.	EACH	3.00
680.520105	CONDUIT, STEEL, ZINC COATED, 1-1/2 NPS	M	4.00
680.520506	CONDUIT, RIGID PLASTIC, CLASS 1, 2 NPS	M	45.00
680.520508	CONDUIT, RIGID PLASTIC, CLASS 1, 3 NPS	M	139.00
680.53	CONDUIT JACKING OR BORING	M	52.00
05680.530803	CONDUIT, FLEX LIQ-TIGHT NON-METAL, 1 NPS	M	24.00
680.54	INDUCTANCE LOOP INSTALLATION	M	225.00
680.603010	SIGNAL POLE-SPAN WIRE	EACH	1.00
680.603011	SIGNAL POLE-SPAN WIRE	EACH	1.00
680.604010	SIGNAL POLE-SPAN WIRE	EACH	1.00
680.604011	SIGNAL POLE-SPAN WIRE	EACH	1.00
680.6730	SIGNAL POLE-POST TOP MOUNT	EACH	6.00
680.7001	SINGLE SPAN WIRE ASSEMBLY	EACH	6.00
680.71	SHIELDED LEAD-IN CABLE	M	428.00
680.72	INDUCTANCE LOOP WIRE	M	599.00
680.730514	SIGNAL CABLE, 5 CONDUCTORS 14 AWG	M	296.00
680.731914	SIGNAL CABLE, 19 CONDUCTORS 14 AWG	M	253.00
05680.770003	MODIFY TRAFFIC SIGNAL INSTALLATION, LOC 417	ELOC	1.00
05680.7801	ALTER PULLBOX FOR CONDUITS	EACH	3.00
05680.790005	REMOVE TRAFFIC SIGNAL INSTALLATION	ELOC	1.00
680.810101	SIGNAL MODULE-300 mm, RED BALL,LED	EACH	16.00
680.810103	SIGNAL MODULE-300 mm, YELLOW BALL, LED	EACH	12.00
680.810104	SIGNAL MODULE-300 mm, YELLOW ARROW,LED	EACH	4.00
680.810105	SIGNAL MODULE-300 mm, GREEN BALL,LED	EACH	12.00
680.810106	SIGNAL MODULE-300 mm, GREEN ARROW,LED	EACH	4.00
680.810601	SIGNAL SECTION, POLYCARBONITE,TYPE I, 300 mm	EACH	48.00
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EACH	16.00
680.8120	TRAFFIC SIGNAL DISCONNECT HANGER	EACH	16.00
680.813105	PED MODULE - 300mm, BI-MODAL HAND/MAN, LED	EACH	6.00
680.813106	PED SIGNAL SEC. - POLYCARBONATE TYPE I, 300 mm	EACH	12.00
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EACH	6.00
03680.8150	PEDESTRIAN COUNT DOWN TIMER	EACH	6.00
680.8201	OVERHEAD SIGN ASSEMBLY, TYPE A	EACH	6.00
680.8225	PEDESTRIAN PUSHBUTTON AND SIGN - W/O POST	EACH	6.00

SIGNAL HEAD DATA TABLE

ITEM / FACE	680. 810601	680. 810101	680. 810102	680. 810103	680. 810104	680. 810105	680. 810106	680. 8111	680. 8112	680. 8113	680. 8114	680. 8120
1	3	1		1		1		1				1
2	3	1		1		1		1				1
3	3	1		1		1		1				1
4	3	1		1		1		1				1
5	3	1		1		1		1				1
6	3	1		1		1		1				1
7	3	1		1		1		1				1
8	3	1		1		1		1				1
9	3	1		1		1		1				1
10	3	1		1		1		1				1
11	3	1		1		1		1				1
12	3	1		1		1		1				1
13	3	1			1		1	1				1
14	3	1			1		1	1				1
15	3	1			1		1	1				1
16	3	1			1		1	1				1
TOTAL	48	16		12	4	12	4	16				16

INSTALL TRAFFIC SIGNAL HEADS AT LOCATIONS SHOWN BELOW:
HEADS TO BE ALIGNED IN CENTER OF LANE : 1, 2, 4, 5, 8, 9, 10, 11, 12
HEADS TO BE ALIGNED WITH EDGE OF PAVEMENT: 13, 14, 15, 16
HEADS TO BE ALIGNED WITH CENTERLINE OF MEDIAN : 3, 7
HEAD 6 TO BE ALIGNED 3.3m TO THE RIGHT OF HEAD 5.

DETECTOR DATA TABLE

NO.	680. 54	680. 72	680. 71	05206. 0306	05680. 530803
1A	21	55	117	3	3
1B	21	55			3
2A	20	54	45	2	2
2B	20	54			2
3A	20	54	48	2	2
3B	20	54			2
3C	22	56	48		2
3D	22	56			2
4A	20	54	85	2	2
4B	20	54			2
4C	19	53	85	2	2
TOTAL	225	599	428	11	24

NOTE: 1.83m X 6.1m LOOPS SHALL HAVE 3 TURNS OF WIRE.
NOTE: 1.83m X 1,83m LOOPS SHALL HAVE 4 TURNS OF WIRE.
NOTE: THE LEADING EDGE OF THE FIRST LOOP SHALL BE INSTALLED 1.5m IN FRONT OF THE STOP LINE.

NOTE: UNDER PROVISIONS OF 05680.770003 CONTRACTOR SHALL MODIFY CONTROLLER FOUNDATION BASE TO ACCEPT CONDUIT A.O.B.E.

NOTE: ALL EXISTING TRAFFIC SIGNAL EQUIPMENT WILL REMAIN AS IS UNLESS OTHERWISE NOTED BELOW OR ON THE PLANS.

NOTE: THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT WILL BE REMOVED UNDER THE PROVISIONS OF ITEM 05680.790005, "REMOVE TRAFFIC SIGNAL INSTALLATION, LOCATION 417 ERIE":
4- SPAN WIRE SIGNAL POLES
ALL - TRAFFIC SIGNAL HEADS, SPAN WIRES, AND RELATED WIRING.

NOTE: SPAN WIRE POLES SHALL BECOME PROPERTY OF THE CONTRACTOR

CONTACT THE REGIONAL TRANSPORTATION SYSTEM OPERATIONS ENGINEER FOR OPERATIONAL SCHEDULE AND SIGNAL OPERATION SPECIFICATIONS.

SIGNAL HEAD INDICATIONS



FACE
1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12



FACE
13, 14,
15, 16

(R) RED BALL
(Y) YELLOW BALL
(G) GREEN BALL
RED ARROW
YELLOW ARROW
GREEN ARROW

PREPARED BY: ON:	ALTERED BY: ON:

AS BUILT REVISIONS DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: SIG417.DGN

SIGNAL IMPROVEMENTS/INSTALLATION PROJECT SFY 09/10
VARIOUS LOCATIONS IN REGION 5
COUNTY: ERIE

PIN 5805.90
PS&E DATE 3/17/09

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

RT 263 MILLERSPORT AT COVENTRY

NYSDOT TRAFFIC SIGNAL #417 (ERIE)

CONTRACT NUMBER D261074

DRAWING NO. SIG-12
SHEET NO.

NEW YORK STATE DEPARTMENT OF TRANSPORTAT

DESIGN SUPERVISOR S. S. VAIDYA JOB MANAGER R. LUNZ DESIGNED BY PETER CALABRESE CHECKED BY RICHARD LUNZ ESTIMATED BY P.CALABRESE DRAFTED BY PETER CALABRESE CHECKED BY R. LUNZ

USER = fdegeorge

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

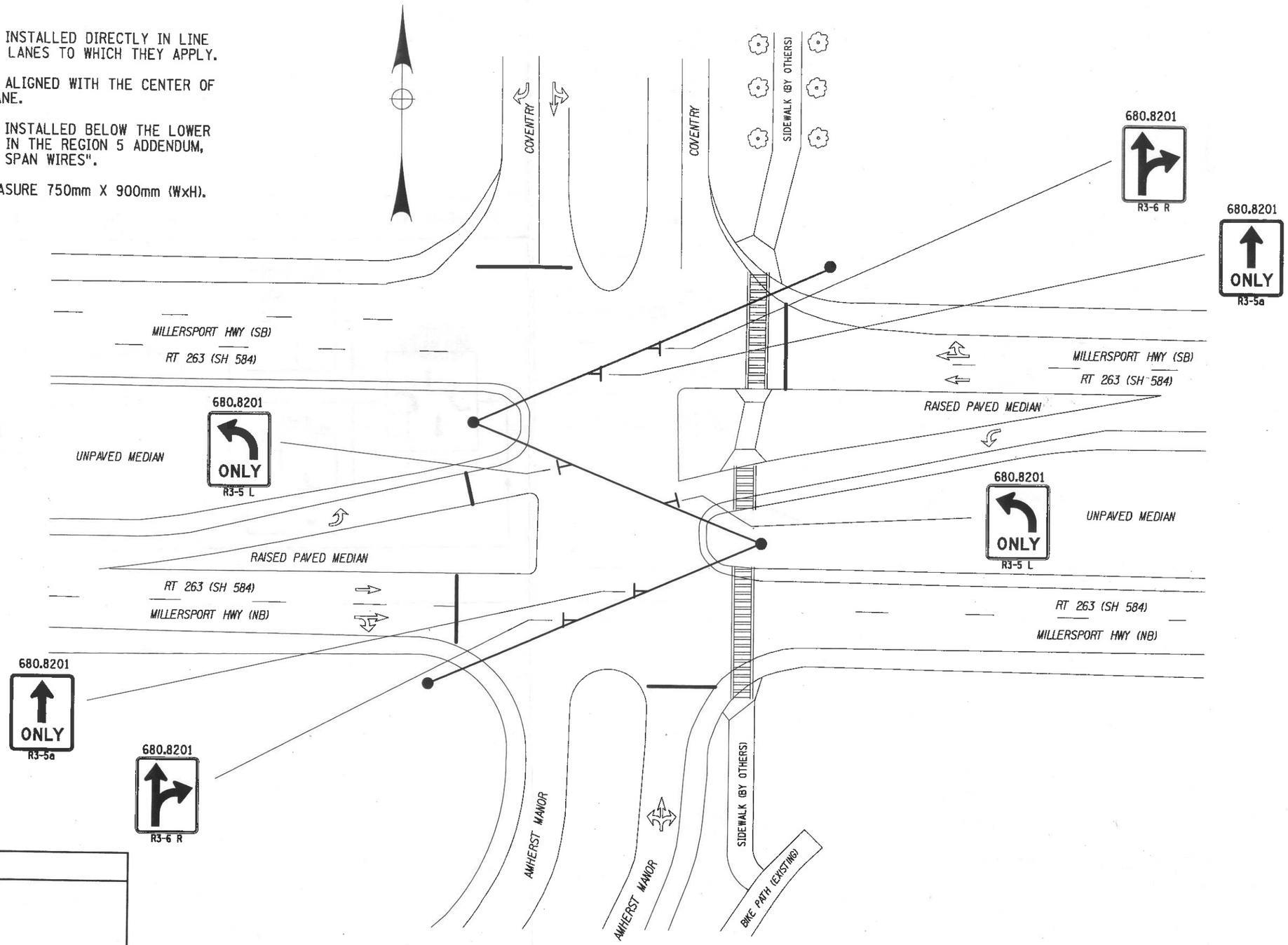
NOTE

ALL SIGNS SHALL BE INSTALLED DIRECTLY IN LINE WITH TRAFFIC IN THE LANES TO WHICH THEY APPLY.

ALL SIGNS SHALL BE ALIGNED WITH THE CENTER OF THEIR ASSOCIATED LANE.

ALL SIGNS SHALL BE INSTALLED BELOW THE LOWER SPAN WIRE AS SHOWN IN THE REGION 5 ADDENDUM, "SIGN MOUNT ON TWO SPAN WIRES".

ALL SIGNS SHALL MEASURE 750mm X 900mm (WxH).



PREPARED BY: ON:	ALTERED BY: ON:

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: SIG417.DGN

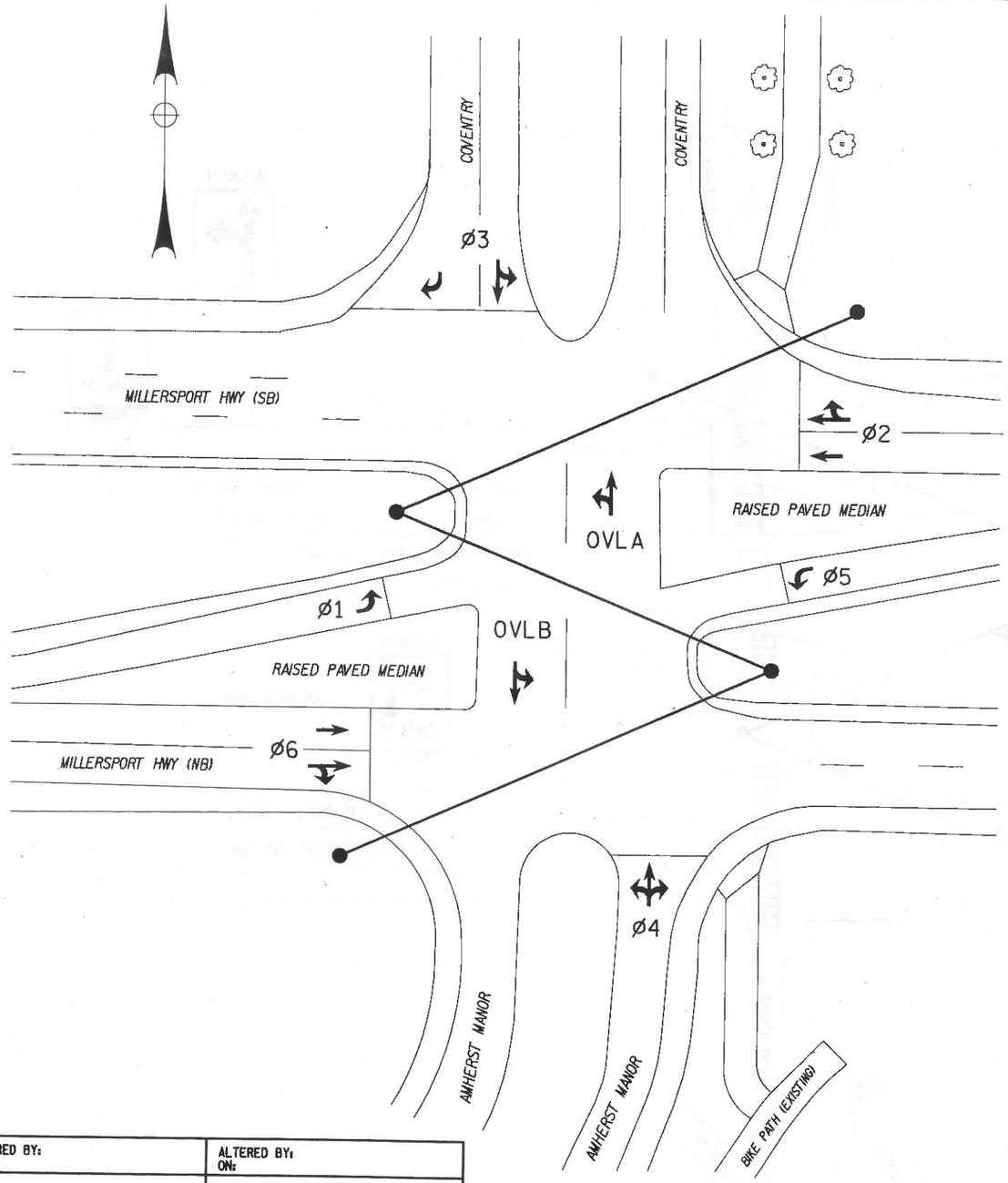
SIGNAL IMPROVEMENTS/INSTALLATION PROJECT SFY 09/10 VARIOUS LOCATIONS IN REGION 5 COUNTY: ERIE	PIN 5805.90 PS&E DATE 3/17/09	BRIDGES	CULVERTS	ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED RT 263 MILLERSPORT AT COVENTRY NYSDOT TRAFFIC SIGNAL #417 (ERIE)	CONTRACT NUMBER D261074 DRAWING NO. SIG-13 SHEET NO. 17

NEW YORK STATE DEPARTMENT OF TRA

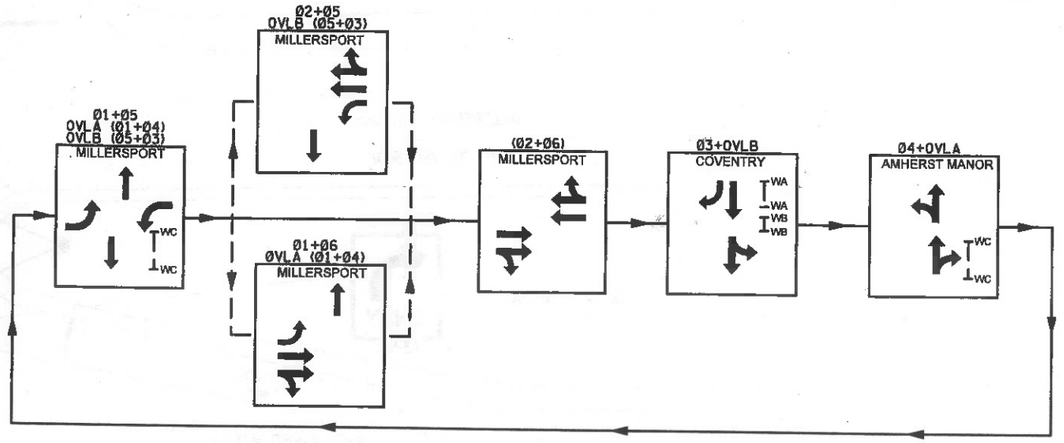
DESIGN SUPERVISOR S. S. VAIDYA JOB MANAGER R. LUNZ DESIGNED BY PETER CALABRESE CHECKED BY R. LUNZ
CHECKED BY RICHARD LUNZ ESTIMATED BY P.CALABRESE DRAFTED BY PETER CALABRESE CHECKED BY R. LUNZ

FILE NAME = SIG417.DGN
DATE/TIME = 17-MAR-2009 11:02
USER = fdegeorge

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



PREFERENTIAL PHASING SEQUENCE FOR MILLERSPORT HWY @ COVENTRY ENTRANCE



PREPARED BY: ON:	ALTERED BY: ON:

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: SIG417.DGN

SIGNAL IMPROVEMENTS/INSTALLATION PROJECT SFY 09/10
VARIOUS LOCATIONS IN REGION 5

COUNTY: ERIE

PIN 5805.90
PS&E DATE 3/17/09

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

RT 263 MILLERSPORT AT COVENTRY

NYSDOT TRAFFIC SIGNAL #417 (ERIE)

CONTRACT NUMBER D261074

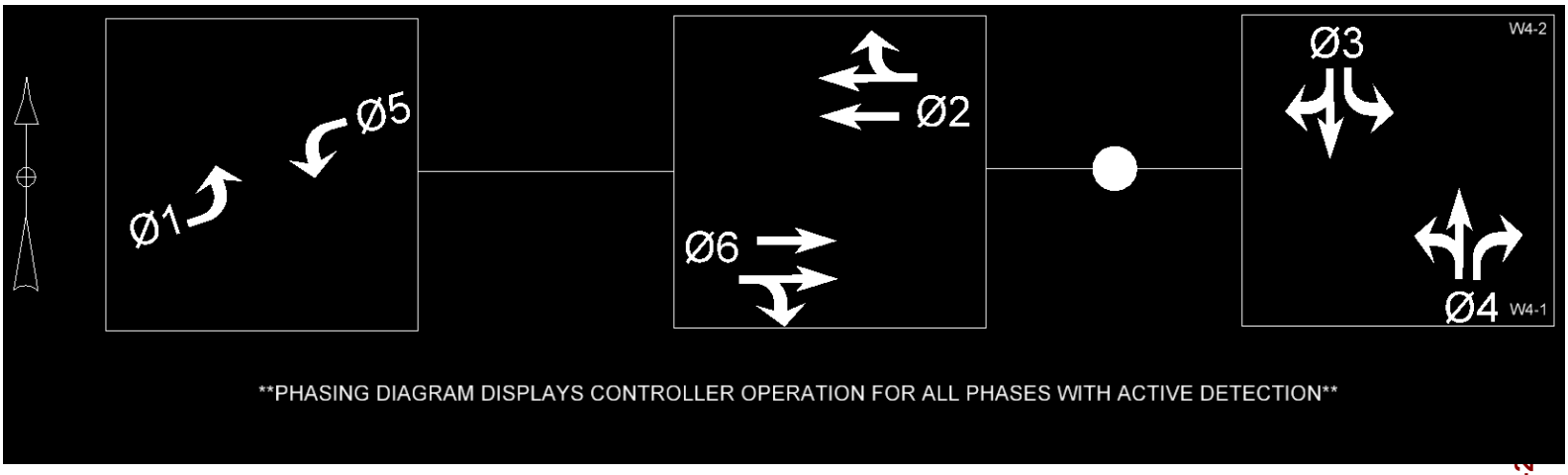
DRAWING NO. SIG-14
SHEET NO.

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 5

DESIGN SUPERVISOR S. S. VAIDYA JOB MANAGER R. LUNZ DESIGNED BY PETER CALABRESE CHECKED BY R. LUNZ
CHECKED BY RICHARD LUNZ ESTIMATED BY P.CALABRESE DRAFTED BY PETER CALABRESE CHECKED BY R. LUNZ

DATE/TIME = 2/17/2009 11:26:7
USER = fdegeorge

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2

53417

Phase Times [1.1.1]

	1	2	3	4	5	6	7	8
Min Green	6	35	6	6	6	35		
Gap, Ext	4	5	3	4	3	5		
Max 1	50	55	40	35	25	55		
Max 2								
Yel Clearance	4.3	4.3	3.2	3.2	4.3	4.3	3.5	3.5
Red Clearance	2.5	2.5	4.3	4.3	2.5	2.5	1.5	1.5
Walk				10				
Ped Clearance				33				
Red Revert								
Add Initial								
Max Initial								
Time B4 Reduct								
Cars B4 Reduct								
Time To Reduce								
Reduce By								
Min Gap								
DyMaxLim								
Max Step								

Options [1.1.2]

	1	2	3	4	5	6	7	8
Enable	ON	ON	ON	ON	ON	ON		
Min Recall		ON				ON		
Max Recall								
Ped Recall								
Soft Recall								
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		ON		ON		ON		ON
Enable Simul Gap	ON	ON	ON	ON	ON	ON	ON	ON
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								

Options+ [1.1.3]

	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
Skip Red No Call								
Red Rest								
Max II								
Call Phase								
Conflicting Phase								
Omit Yellow								
Ped Delay								
Grn/Ped Delay								

Coordination Patterns [2.4] and Coordination Split Tables [2.7.1]

Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq	Pat#	Cyc	Off	Split	Seq
1	0	0	1	1	13	0	0	13	1	25	0	0	0	1	37	0	0	0	1
2	0	0	2	1	14	0	0	14	1	26	0	0	0	1	38	0	0	0	1
3	0	0	3	1	15	0	0	15	1	27	0	0	0	1	39	0	0	0	1
4	0	0	4	1	16	0	0	16	1	28	0	0	0	1	40	0	0	0	1
5	0	0	5	1	17	0	0	17	1	29	0	0	0	1	41	0	0	0	1
6	0	0	6	1	18	0	0	18	1	30	0	0	0	1	42	0	0	0	1
7	0	0	7	1	19	0	0	19	1	31	0	0	0	1	43	0	0	0	1
8	0	0	8	1	20	0	0	20	1	32	0	0	0	1	44	0	0	0	1
9	0	0	9	1	21	0	0	21	1	33	0	0	0	1	45	0	0	0	1
10	0	0	10	1	22	0	0	22	1	34	0	0	0	1	46	0	0	0	1
11	0	0	11	1	23	0	0	23	1	35	0	0	0	1	47	0	0	0	1
12	0	0	12	1	24	0	0	24	1	36	0	0	0	1	48	0	0	0	1

Split		1	2	3	4	5	6	7	8	Split		1	2	3	4	5	6	7	8
1	Coor	0	0	0	0	0	0	0	0	13	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
2	Coor	0	0	0	0	0	0	0	0	14	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
3	Coor	0	0	0	0	0	0	0	0	15	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
4	Coor	0	0	0	0	0	0	0	0	16	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
5	Coor	0	0	0	0	0	0	0	0	17	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
6	Coor	0	0	0	0	0	0	0	0	18	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
7	Coor	0	0	0	0	0	0	0	0	19	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
8	Coor	0	0	0	0	0	0	0	0	20	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
9	Coor	0	0	0	0	0	0	0	0	21	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
10	Coor	0	0	0	0	0	0	0	0	22	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
11	Coor	0	0	0	0	0	0	0	0	23	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON
12	Coor	0	0	0	0	0	0	0	0	24	Coor	0	0	0	0	0	0	0	0
		NON	NON	NON	NON	NON	NON	NON	NON			NON	NON	NON	NON	NON	NON	NON	NON

Page#	
1	8 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
1A&1B	16 Phase Times/Options; Patterns/Splits; Ring Startup; Coord/Flash Mode; Unit Param
2	Overlaps; Channel Settings; Coord Alt Table+ (values not associated with time-of-day)
3	Detection; Sample Time and Unit Parameters related to detection
4	Preemption and Alternate Phase Time and Phase Options
5	Annual Schedule
6	Day Plans; Action Tables; Coord Alt Table+ (values varied by time-of-day)
7	Communications; Secutiry; I/O Setup
8	Misc - Events/Alarms; Call/Inhibit/Redirect; P/OLAP Auto Flash; CIC; Misc Unit Param

Ring/Startup [1.1.4]

Phs	Ring	Start	Ena
1	1	Red	O
2	1	Green	O
3	1	Red	O
4	1	Red	O
5	2	Red	O
6	2	Green	O
7	2	Red	OI
8	2	Red	OI

Coord Modes [2.1]

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX 1
Force-Off	Float
Closed Loop	ON
Stop-in-Walk	OFF
Auto Reset	ON
Expand Splt	
Ped Recycle	NO_RECYCLE
Before	TIMED
After	TIMED

Auto Flash [1.4.1]

Auto Flash	PH_OVLP
Flash Yel	45
Flash Red	20

Unit Params [1.2.1]

Phase Mode	STD8
IO Mode	User
Loc Flsh Start	Red
Start Flash(s)	0
Start AllRed(s)	6
Yellow < 3"	OFF
Display Time	20
Red Revert	3
MCE Timeout	5
Feature Profile	
Free Ring Seq	1
Auxswitch	STOPTM
SDLC Retry	0
TS2 Det Faults	ON
Auto Ped Clear	OFF
SDLC Retry	0

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Packet Pg. 958

Overlap 1-16 Program Parms & Parm+ [1.5.2.1] [1.5.2.2]

Overlap Conflict Lock	OFF	Overlap Lock Inhibit	OFF	Parent Ph Clearance	ON	Extra Included Ph	OFF

1	Included Ø	1	4							Type	NORMAL	9	Included Ø									Type	NORMAL
	Modifier Ø									Grn	5		Modifier Ø									Grn	
	Conflict Ø									Yel	3.2		Conflict Ø									Yel	3.5
A	Conflict Olap									Red	4.3	I	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
2	Included Ø	3	5							Type	NORMAL	10	Included Ø									Type	NORMAL
	Modifier Ø									Grn	5		Modifier Ø									Grn	
	Conflict Ø									Yel	3.2		Conflict Ø									Yel	3.5
B	Conflict Olap									Red	4.3	J	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
3	Included Ø									Type	NORMAL	11	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
C	Conflict Olap									Red	1.5	K	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
4	Included Ø									Type	NORMAL	12	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
D	Conflict Olap									Red	1.5	L	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
5	Included Ø									Type	NORMAL	13	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
E	Conflict Olap									Red	1.5	M	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
6	Included Ø									Type	NORMAL	14	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
F	Conflict Olap									Red	1.5	N	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
7	Included Ø									Type	NORMAL	15	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
G	Conflict Olap									Red	1.5	O	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	
8	Included Ø									Type	NORMAL	16	Included Ø									Type	NORMAL
	Modifier Ø									Grn			Modifier Ø									Grn	
	Conflict Ø									Yel	3.5		Conflict Ø									Yel	3.5
H	Conflict Olap									Red	1.5	P	Conflict Olap									Red	1.5
	Conflict Ped									LG			Conflict Ped									LG	

Channel Settings [1.8.1]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Phase / Olap #	1	2	3	4	5	6			1	2	4	4												
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OLP	OLP	PED	PED	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
Channel Flash	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	DRK	DRK	Red	Red	Red	Red	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
Alt Hz																								

Channel+ Settings [1.8.4]

.....Channel ->>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Flash Red+																								
Flash Yellow+																								
Flash Green+																								
Flash Inh Red+																								
Olap Ovrd																								

Coord Transition, CoorPhs [2.5]

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	RetHld	Float	Min Veh Perm	Min Ped Perm
1	12	22							EndGRN				
2	12	22							EndGRN				
3	12	22							EndGRN				
4	12	22							EndGRN				
5	12	22							EndGRN				
6	12	22							EndGRN				
7	12	22							EndGRN				
8	12	22							EndGRN				
9	12	22							EndGRN				
10	12	22							EndGRN				
11	12	22							EndGRN				
12	12	22							EndGRN				
13	12	22							EndGRN				
14	12	22							EndGRN				
15	12	22							EndGRN				
16	12	22							EndGRN				
17	12	22							EndGRN				
18	12	22							EndGRN				
19	12	22							EndGRN				
20	12	22							EndGRN				
21	12	22							EndGRN				
22	12	22							EndGRN				
23	12	22							EndGRN				
24	12	22							EndGRN				
25									BegGRN				
26									BegGRN				
27									BegGRN				
28									BegGRN				
29									BegGRN				
30									BegGRN				
31									BegGRN				
32									BegGRN				
33									BegGRN				
34									BegGRN				
35									BegGRN				
36									BegGRN				
37									BegGRN				
38									BegGRN				
39									BegGRN				
40									BegGRN				
41									BegGRN				
42									BegGRN				
43									BegGRN				
44									BegGRN				
45									BegGRN				
46									BegGRN				
47									BegGRN				
48									BegGRN				

Channel Params[1.8.3]

C1 IO Mode	User	Single BIU Map	DEFAULT	Invert Rail Input	OFF

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
1	1						45	50	2
2	2							50	
3	5						45	50	2
4							45	50	2
5	3		10				45	50	2
6	3		10				45	50	2
7	4		10				45	50	2
8	4		10				45	50	2
9								50	2
10								50	2
11	2							50	2
12	2							50	2
13	6						45	50	2
14	6						45	50	2
15							45	50	2
16							45	50	2
17							45	50	2
18							45	50	2
19							45	50	
20							45	50	
21							45	50	
22							45	50	
23							45	50	
24							45	50	
25							45	50	
26							45	50	
27							45	50	
28							45	50	
29							45	50	
30							45	50	
31							45	50	
32							45	50	

Veh Par 1-64 [5.1]

Det #	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time
33							45	50	
34							45	50	
35							45	50	
36							45	50	
37							45	50	
38							45	50	
39							45	50	
40							45	50	
41							45	50	
42							45	50	
43							45	50	
44							45	50	
45							45	50	
46							45	50	
47							45	50	
48							45	50	
49							45	50	
50							45	50	
51							45	50	
52							45	50	
53							45	50	
54							45	50	
55							45	50	
56							45	50	
57							45	50	
58							45	50	
59							45	50	
60							45	50	
61							45	50	
62							45	50	
63							45	50	
64							45	50	

Vehicle Options 1-64 [5.2]

Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol
1	ON	ON		ON				
2	ON	ON		ON				
3	ON	ON		ON				
4	ON	ON		ON				
5	ON	ON		ON				
6	ON	ON		ON				
7	ON	ON		ON				
8	ON	ON		ON				
9	ON	ON		ON				
10	ON	ON		ON				
11	ON	ON		ON				
12	ON	ON		ON				
13	ON	ON		ON				
14	ON	ON		ON				
15	ON	ON		ON				
16	ON	ON		ON				
17	ON	ON		ON				
18	ON	ON		ON				
19	ON	ON		ON				
20	ON	ON		ON				
21	ON	ON		ON				
22	ON	ON		ON				
23	ON	ON		ON				
24	ON	ON		ON				
25	ON	ON		ON				
26	ON	ON		ON				
27	ON	ON		ON				
28	ON	ON		ON				
29	ON	ON		ON				
30	ON	ON		ON				
31	ON	ON		ON				
32	ON	ON		ON				

Vehicle Options 1-64 [5.2]

Det #	vol	occ	Yell Lock	Red Lock	Ext	Add Init	Que	Call
33					ON	ON		ON
34					ON	ON		ON
35					ON	ON		ON
36					ON	ON		ON
37					ON	ON		ON
38					ON	ON		ON
39					ON	ON		ON
40					ON	ON		ON
41					ON	ON		ON
42					ON	ON		ON
43					ON	ON		ON
44					ON	ON		ON
45					ON	ON		ON
46					ON	ON		ON
47					ON	ON		ON
48					ON	ON		ON
49					ON	ON		ON
50					ON	ON		ON
51					ON	ON		ON
52					ON	ON		ON
53					ON	ON		ON
54					ON	ON		ON
55					ON	ON		ON
56					ON	ON		ON
57					ON	ON		ON
58					ON	ON		ON
59					ON	ON		ON
60					ON	ON		ON
61					ON	ON		ON
62					ON	ON		ON
63					ON	ON		ON
64					ON	ON		ON

Parameters+ 1-64 [5.3]

Det #	oc G	oc Y	oc R	Dlay 1	Dlay 2	Type
1						NORM
2						NORM
3						NORM
4						NORM
5						NORM
6						NORM
7						NORM
8						NORM
9						NORM
10						NORM
11						NORM
12						NORM
13						NORM
14						NORM
15						NORM
16						NORM
17						NORM
18						NORM
19						NORM
20						NORM
21						NORM
22						NORM
23						NORM
24						NORM
25						NORM
26						NORM
27						NORM
28						NORM
29						NORM
30						NORM
31						NORM
32						NORM

Parameters+ 1-64 [5.3]

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
33						NORM	
34						NORM	
35						NORM	
36						NORM	
37						NORM	
38						NORM	
39						NORM	
40						NORM	
41						NORM	
42						NORM	
43						NORM	

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
44						NORM	
45						NORM	
46						NORM	
47						NORM	
48						NORM	
49						NORM	
50						NORM	
51						NORM	
52						NORM	
53						NORM	
54						NORM	

Det #	occ Grn	occ Yell	occ Red	Dlay 1	Dlay 2	Type	Src
55						NORM	
56						NORM	
57						NORM	
58						NORM	
59						NORM	
60						NORM	
61						NORM	
62						NORM	
63						NORM	
64						NORM	

263 @ Coventry Rd.

Ped Det Parms [5.4]

Det #	Call Ø	No Act	Max Pres	Err Cnt
1	4		15	
2	4		15	
3			15	
4			15	
5			15	
6			15	
7			15	
8			15	

Unit Paramters [1.2.1]

TS2 Det Faults	

Vol/Occ Report Parm [1.5.8]

Vol/Occ Period Minutes
Vol/Occ Period Minutes

8/22/2025 Pa

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Annual Schedule [4.3]	Month of Year												Day of Week							Date																										Day Plan	Link To
1	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
2	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
3	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
4	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
5	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
6	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
7	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
8	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
9	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
10	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
11	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
12	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
13	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
14	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
15	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
16	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
17	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
18	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
19	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
20	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
21	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
22	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
23	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	
24	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Day Plans [4.4]

Day Plan 1

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 2

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 3

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 4

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 5

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 6

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 7

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 8

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 9

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 10

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 11

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 12

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 13

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 14

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Day Plan 15

	Hour	Min	Act		Hour	Min	Act
1	0	0	0	9	0	0	0
2	0	0	0	10	0	0	0
3	0	0	0	11	0	0	0
4	0	0	0	12	0	0	0
5	0	0	0	13	0	0	0
6	0	0	0	14	0	0	0
7	0	0	0	15	0	0	0
8	0	0	0	16	0	0	0

Action Table [4.5]

Act#	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8
1	1											
2	2											
3	3											
4	4											
5	5											
6	6											
7	7											
8	8											
9	9											
10	10											
11	11											
12	12											
13	13											
14	14											
15	15											
16	16											
17	17											
18	18											
19	19											
20	20											
21	21											
22	22											
23	23											
24	24											
25												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
48												
98												
99												
100	255											

Coord Alternate Tables - Pat+ [2.6]

Pat#	ØOpt	ØTime	DetG	Call Inh	CIC	CNA1	Overlap Off 1	2	3	4	5	6	7	8	Dia	Max2
1															DFT	
2															DFT	
3															DFT	
4															DFT	
5															DFT	
6															DFT	
7															DFT	
8															DFT	
9															DFT	
10															DFT	
11															DFT	
12															DFT	
13															DFT	
14															DFT	
15															DFT	
16															DFT	
17															DFT	
18															DFT	
19															DFT	
20															DFT	
21															DFT	
22															DFT	
23															DFT	
24															DFT	
25															DFT	
26															DFT	
27															DFT	
28															DFT	
29															DFT	
30															DFT	
31															DFT	
32															DFT	
33															DFT	
34															DFT	
35															DFT	
36															DFT	
37															DFT	
38															DFT	
39															DFT	
40															DFT	
41															DFT	
42															DFT	
43															DFT	
44															DFT	
45															DFT	
46															DFT	
47															DFT	
48															DFT	

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

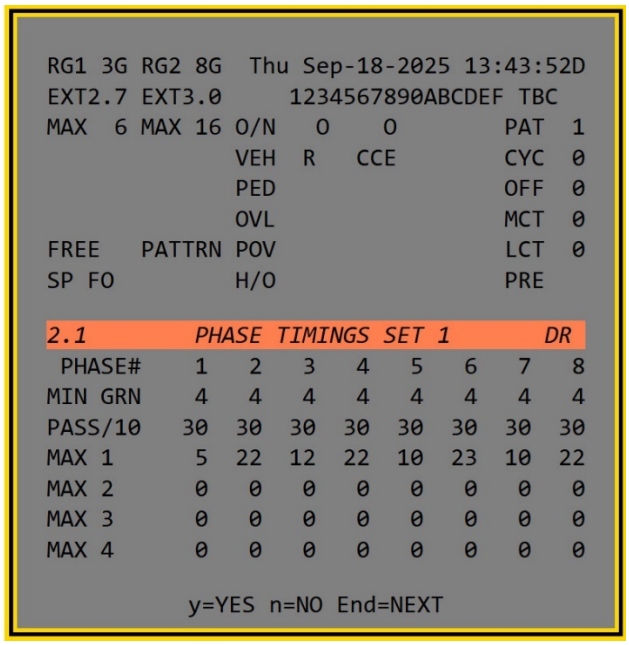
ATTACHMENT A2

ERIE COUNTY SIGNAL TIMINGS

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

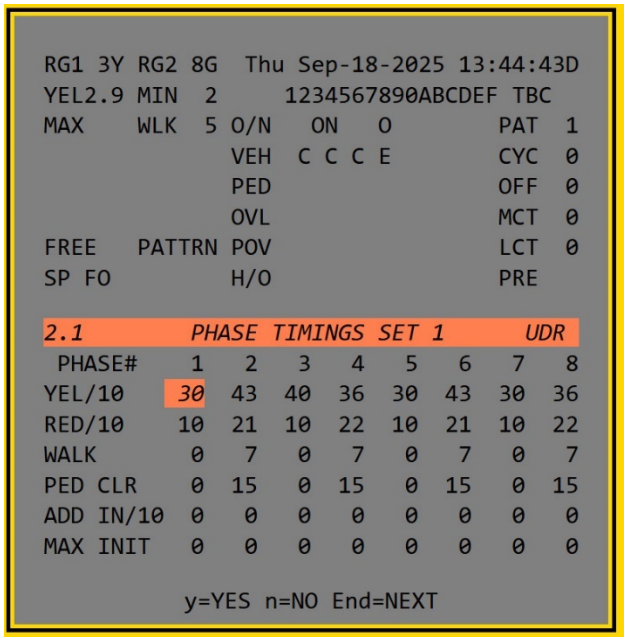
MAPLE ROAD AND FLINT ROAD – WEEKDAY PM



```
RG1 3G RG2 8G  Thu Sep-18-2025 13:43:52D
EXT2.7 EXT3.0     1234567890ABCDEF TBC
MAX  6 MAX 16 O/N   O    O        PAT  1
              VEH  R   CCE        CYC  0
              PED                 OFF  0
              OVL                 MCT  0
FREE   PATTRN POV                 LCT  0
SP FO         H/O                 PRE

2.1          PHASE TIMINGS SET 1        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   4   4   4   4   4   4
PASS/10   30  30  30  30  30  30  30  30
MAX 1      5  22  12  22  10  23  10  22
MAX 2      0   0   0   0   0   0   0   0
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

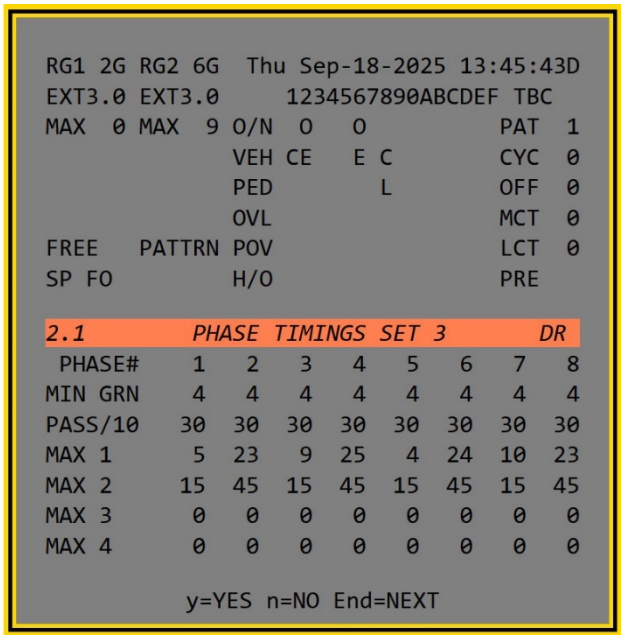


```
RG1 3Y RG2 8G  Thu Sep-18-2025 13:44:43D
YEL2.9 MIN  2     1234567890ABCDEF TBC
MAX    WLK  5 O/N   ON   O        PAT  1
              VEH  C C C E        CYC  0
              PED                 OFF  0
              OVL                 MCT  0
FREE   PATTRN POV                 LCT  0
SP FO         H/O                 PRE

2.1          PHASE TIMINGS SET 1        UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    30  43  40  36  30  43  30  36
RED/10    10  21  10  22  10  21  10  22
WALK       0   7   0   7   0   7   0   7
PED CLR    0  15   0  15   0  15   0  15
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

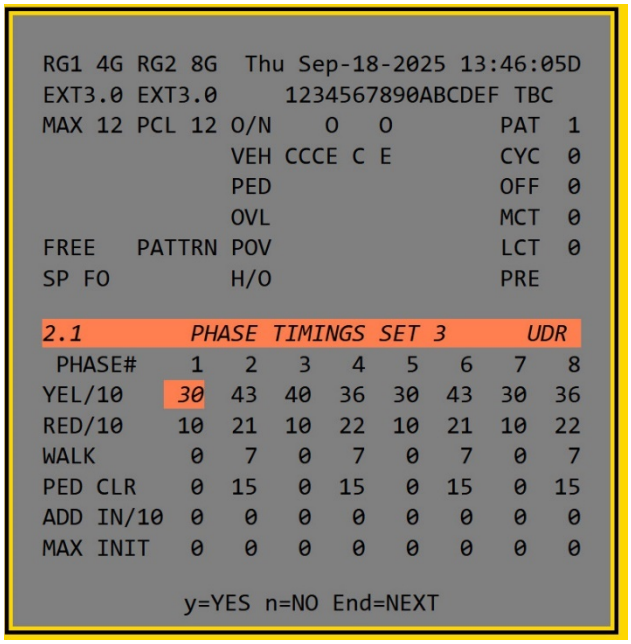
MAPLE ROAD AND FLINT ROAD – WEEKEND MD



```
RG1 2G RG2 6G  Thu Sep-18-2025 13:45:43D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
MAX  0 MAX  9 O/N  O   O          PAT  1
              VEH CE   E C        CYC  0
              PED        L        OFF  0
              OVL                 MCT  0
FREE   PATTRN POV                 LCT  0
SP FO         H/O                 PRE

2.1          PHASE TIMINGS SET 3        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   4   4   4   4   4   4
PASS/10   30  30  30  30  30  30  30  30
MAX 1      5  23   9  25   4  24  10  23
MAX 2     15  45  15  45  15  45  15  45
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```



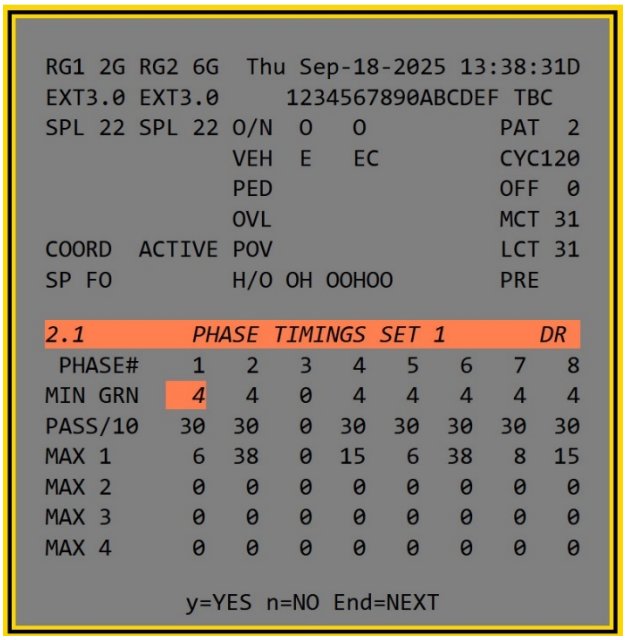
```
RG1 4G RG2 8G  Thu Sep-18-2025 13:46:05D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
MAX 12 PCL 12 O/N    O   O        PAT  1
              VEH CCCE C E        CYC  0
              PED                 OFF  0
              OVL                 MCT  0
FREE   PATTRN POV                 LCT  0
SP FO         H/O                 PRE

2.1          PHASE TIMINGS SET 3        UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    30  43  40  36  30  43  30  36
RED/10    10  21  10  22  10  21  10  22
WALK       0   7   0   7   0   7   0   7
PED CLR    0  15   0  15   0  15   0  15
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

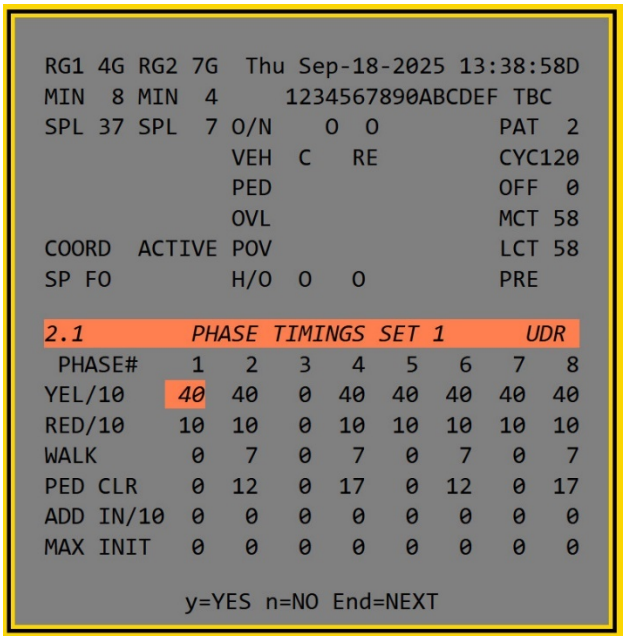
MAPLE ROAD AND N MAPLEMERE ROAD – WEEKDAY PM



```
RG1 2G RG2 6G  Thu Sep-18-2025 13:38:31D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
SPL 22 SPL 22 O/N  O   O          PAT  2
              VEH  E   EC         CYC120
              PED                 OFF  0
              OVL                 MCT 31
COORD  ACTIVE POV                 LCT 31
SP FO         H/O OH OOHOO        PRE

2.1          PHASE TIMINGS SET 1        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   0   4   4   4   4   4
PASS/10   30  30   0  30  30  30  30  30
MAX 1      6  38   0  15   6  38   8  15
MAX 2      0   0   0   0   0   0   0   0
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

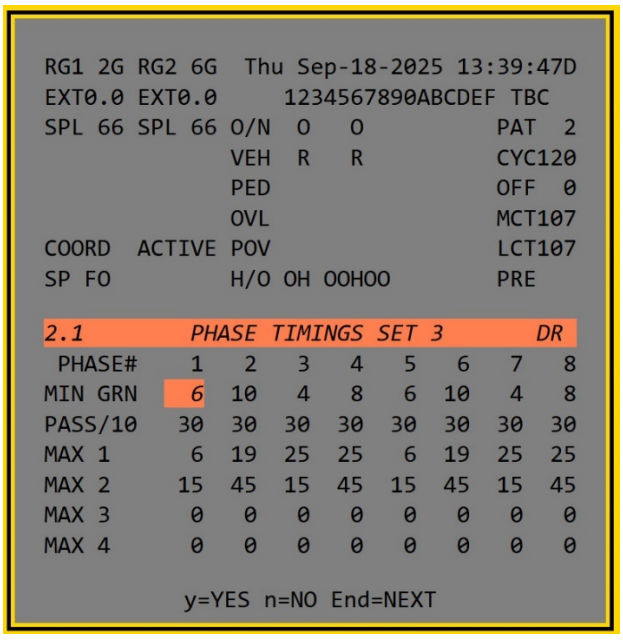


```
RG1 4G RG2 7G  Thu Sep-18-2025 13:38:58D
MIN  8 MIN  4     1234567890ABCDEF TBC
SPL 37 SPL  7 O/N    O  O          PAT  2
              VEH  C   RE         CYC120
              PED                 OFF  0
              OVL                 MCT 58
COORD  ACTIVE POV                 LCT 58
SP FO         H/O  O   O          PRE

2.1          PHASE TIMINGS SET 1       UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    40  40   0  40  40  40  40  40
RED/10    10  10   0  10  10  10  10  10
WALK       0   7   0   7   0   7   0   7
PED CLR    0  12   0  17   0  12   0  17
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

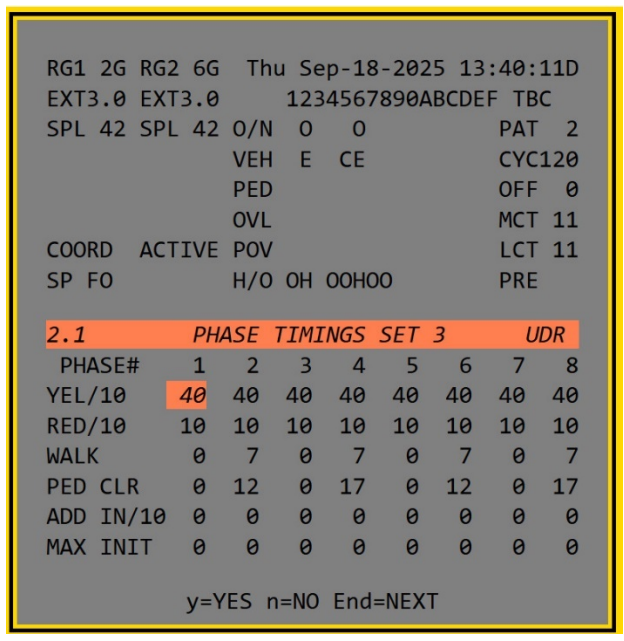
MAPLE ROAD AND N MAPLEMERE ROAD – WEEKEND MD



```
RG1 2G RG2 6G  Thu Sep-18-2025 13:39:47D
EXT0.0 EXT0.0     1234567890ABCDEF TBC
SPL 66 SPL 66 O/N  O   O          PAT  2
              VEH  R   R          CYC120
              PED                 OFF  0
              OVL                 MCT107
COORD  ACTIVE POV                 LCT107
SP FO         H/O OH OOHOO        PRE

2.1          PHASE TIMINGS SET 3        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    6  10   4   8   6  10   4   8
PASS/10   30  30  30  30  30  30  30  30
MAX 1      6  19  25  25   6  19  25  25
MAX 2     15  45  15  45  15  45  15  45
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```



```
RG1 2G RG2 6G  Thu Sep-18-2025 13:40:11D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
SPL 42 SPL 42 O/N  O   O          PAT  2
              VEH  E  CE          CYC120
              PED                 OFF  0
              OVL                 MCT 11
COORD  ACTIVE POV                 LCT 11
SP FO         H/O OH OOHOO        PRE

2.1          PHASE TIMINGS SET 3       UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    40  40  40  40  40  40  40  40
RED/10    10  10  10  10  10  10  10  10
WALK       0   7   0   7   0   7   0   7
PED CLR    0  12   0  17   0  12   0  17
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

MAPLE ROAD AND N FOREST ROAD – WEEKDAY PM

```
RG1 2Y RG2 6Y  Thu Sep-18-2025 13:31:50D
YEL1.3 YEL1.3     1234567890ABCDEF TBC
MAX    MAX     O/N  ON  ON          PAT  1
               VEH  RCC RCC         CYC  0
               PED                  OFF  0
               OVL                  MCT  0
FREE   PATTRN  POV                  LCT  0
SP FO          H/O                  PRE

2.1          PHASE TIMINGS SET 1        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   4   4   4   4   4   4
PASS/10   30  30  30  30  30  30  30  30
MAX 1     11  29  10  23  11  29  10  23
MAX 2      0   0   0   0   0   0   0   0
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

```
RG1 2G RG2 6G  Thu Sep-18-2025 13:33:10D
EXT1.2 EXT1.8     1234567890ABCDEF TBC
MAX  7 MAX  7 O/N  O   O           PAT  1
               VEH  RCC RCC         CYC  0
               PED                  OFF  0
               OVL                  MCT  0
FREE   PATTRN  POV                  LCT  0
SP FO          H/O                  PRE

2.1          PHASE TIMINGS SET 1        UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    30  40  30  40  30  40  30  40
RED/10    10  20  10  20  10  20  10  20
WALK       0   7   0   7   0   7   0   7
PED CLR    0  15   0  15   0  15   0  15
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

MAPLE ROAD AND N FOREST ROAD – WEEKEND MD

```
RG1 2G RG2 6G  Thu Sep-18-2025 13:34:20D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
MAX 10 MAX 25 O/N  O   O           PAT  1
               VEH CE C E           CYC  0
               PED                  OFF  0
               OVL                  MCT  0
FREE   PATTRN  POV                  LCT  0
SP FO          H/O                  PRE

2.1          PHASE TIMINGS SET 3        DR
 PHASE#    1   2   3   4   5   6   7   8
MIN GRN    4   4   4   4   4   4   4   4
PASS/10   30  30  30  30  30  30  30  30
MAX 1      5  23   4  24   5  23   4  24
MAX 2     15  45  15  45  15  45  15  45
MAX 3      0   0   0   0   0   0   0   0
MAX 4      0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

```
RG1 4G RG2 7G  Thu Sep-18-2025 13:34:43D
EXT3.0 EXT3.0     1234567890ABCDEF TBC
MAX 17 MAX  4 O/N    O  O          PAT  1
               VEH  R E RE          CYC  0
               PED                  OFF  0
               OVL                  MCT  0
FREE   PATTRN  POV                  LCT  0
SP FO          H/O                  PRE

2.1          PHASE TIMINGS SET 3        UDR
 PHASE#    1   2   3   4   5   6   7   8
YEL/10    30  40  30  40  30  40  30  40
RED/10    10  20  10  20  10  20  10  20
WALK       0   7   0   7   0   7   0   7
PED CLR    0  15   0  15   0  15   0  15
ADD IN/10  0   0   0   0   0   0   0   0
MAX INIT   0   0   0   0   0   0   0   0

          y=YES n=NO End=NEXT
```

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT B

TURNING MOVEMENT COUNT DATA

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

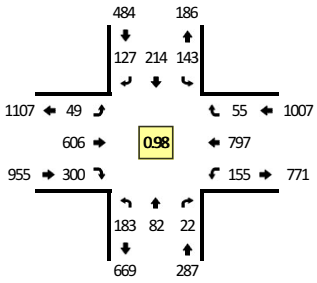
Type of peak hour being reported: Intersection Peak

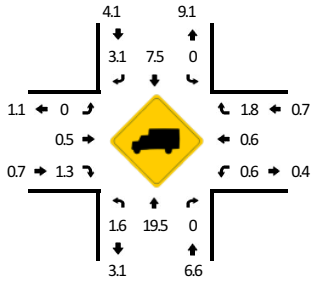
Method for determining peak hour: Total Entering Volume

LOCATION: Flint Rd -- Maple Rd
CITY/STATE: University at Buffalo, NY

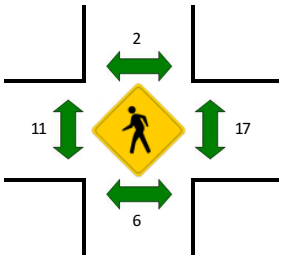
QC JOB #: 17217101
DATE: Thu, Sep 11 2025

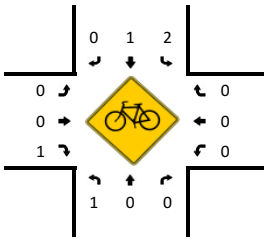
Peak-Hour: 4:30 PM -- 5:30 PM
Peak 15-Min: 5:15 PM -- 5:30 PM

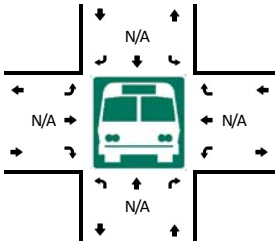


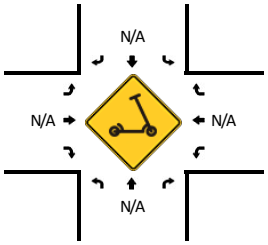


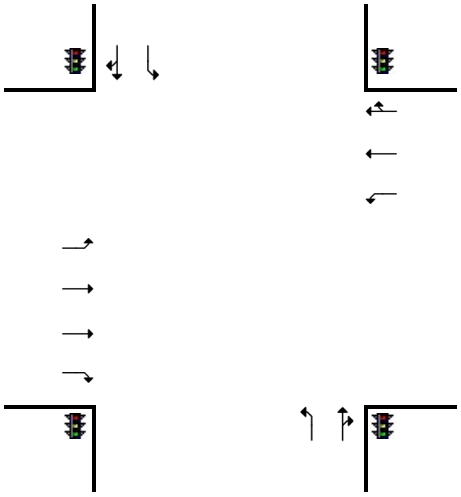
TRUE DATA TO IMPROVE MOBILITY











15-Min Count Period Beginning At	Flint Rd (Northbound)				Flint Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	40	13	7	0	35	50	30	0	13	145	65	0	54	197	6	0	655	
4:15 PM	54	15	3	0	22	47	16	0	14	167	56	0	39	192	7	0	632	
4:30 PM	44	22	6	0	51	55	38	0	15	143	71	0	25	209	18	0	697	
4:45 PM	43	20	8	0	33	44	16	0	14	131	69	0	41	203	16	0	638	2622
5:00 PM	38	24	3	0	38	64	37	0	9	164	99	0	38	177	7	0	698	2665
5:15 PM	58	16	5	0	21	51	36	0	11	168	61	0	51	208	14	0	700	2733
5:30 PM	46	17	8	0	24	35	16	0	19	140	58	0	36	194	9	0	602	2638
5:45 PM	49	27	5	0	26	21	19	0	9	124	41	0	19	172	8	0	520	2520
6:00 PM	46	24	2	0	22	17	17	0	9	112	49	0	22	146	12	0	478	2300
6:15 PM	39	16	2	0	25	18	14	0	14	129	62	0	19	129	6	0	473	2073
6:30 PM	41	8	8	0	22	28	17	0	8	121	45	0	22	137	10	0	467	1938
6:45 PM	32	13	4	0	20	21	15	0	10	113	40	0	28	127	10	0	433	1851

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	232	64	20	0	84	204	144	0	44	672	244	0	204	832	56	0	2800
Heavy Trucks	4	8	0		0	24	0		0	0	0		0	8	0		44
Buses																	
Pedestrians		8				8				8				24			48
Bicycles	4	0	0		4	0	0		0	0	0		0	0	0		8
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

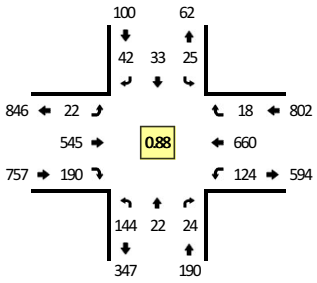
Type of peak hour being reported: Intersection Peak

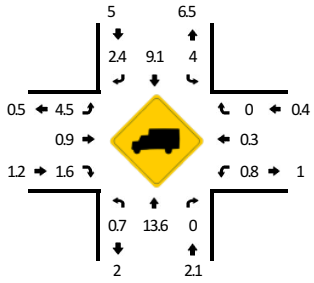
Method for determining peak hour: Total Entering Volume

LOCATION: Flint Rd -- Maple Rd
CITY/STATE: University at Buffalo, NY

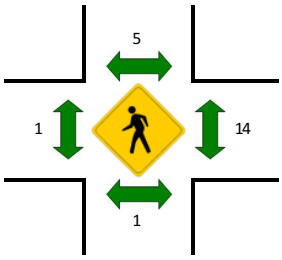
QC JOB #: 17217102
DATE: Sat, Sep 13 2025

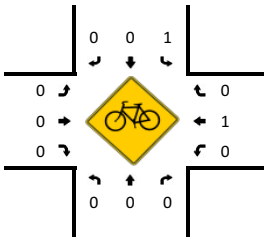
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM

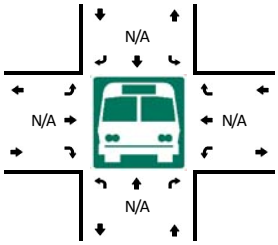


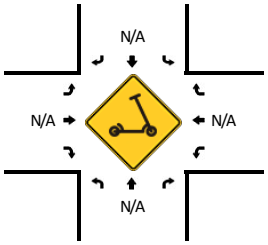


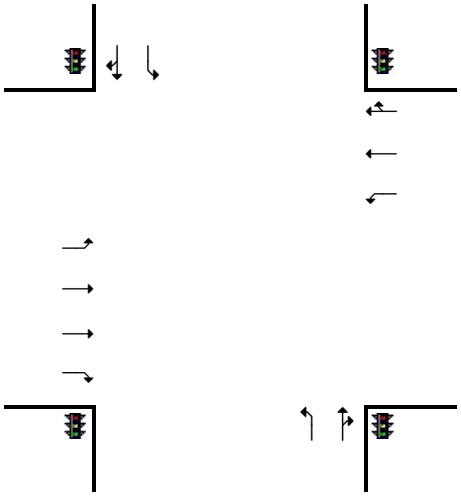
TRUE DATA TO IMPROVE MOBILITY











15-Min Count Period Beginning At	Flint Rd (Northbound)				Flint Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	47	7	5	0	7	9	6	0	4	107	37	0	26	152	9	0	416	
11:15 AM	37	7	6	0	6	3	9	0	7	109	31	0	28	147	5	0	395	
11:30 AM	36	7	6	0	7	5	9	0	3	135	38	0	32	170	7	0	455	
11:45 AM	45	5	3	0	11	8	5	0	2	118	50	0	22	166	3	0	438	1704
12:00 PM	30	7	0	0	9	7	4	0	7	126	41	0	23	154	3	0	411	1699
12:15 PM	42	7	6	0	3	7	5	0	4	150	51	0	19	160	3	0	457	1761
12:30 PM	26	5	4	0	4	4	7	0	5	146	46	0	36	163	3	0	449	1755
12:45 PM	41	7	11	0	9	15	19	0	7	127	46	0	39	194	8	0	523	1840
1:00 PM	35	3	3	0	9	7	11	0	6	122	47	0	30	143	4	0	420	1849
1:15 PM	29	4	5	0	8	7	6	0	7	120	44	0	26	138	4	0	398	1790
1:30 PM	44	7	5	0	3	4	7	0	4	130	42	0	27	151	5	0	429	1770
1:45 PM	26	4	3	0	6	7	9	0	6	125	43	0	27	156	5	0	417	1664

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	164	28	44	0	36	60	76	0	28	508	184	0	156	776	32	0	2092
Heavy Trucks	4	4	0		0	4	4		0	0	0		0	4	0		20
Buses																	
Pedestrians		0				8				0				16			24
Bicycles	0	0	0		4	0	0		0	0	0		0	0	0		4
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

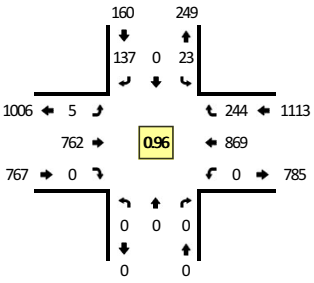
Type of peak hour being reported: Intersection Peak

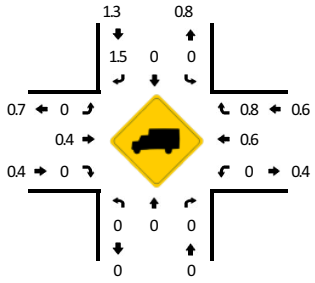
Method for determining peak hour: Total Entering Volume

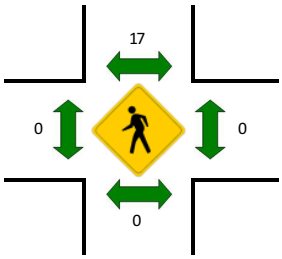
LOCATION: CR 263 SB Ramps -- Maple Rd
CITY/STATE: University at Buffalo, NY

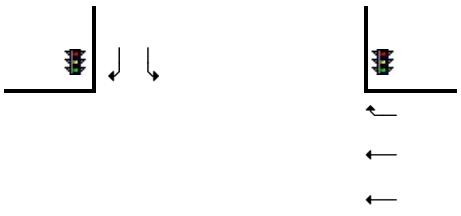
QC JOB #: 17217103
DATE: Thu, Sep 11 2025

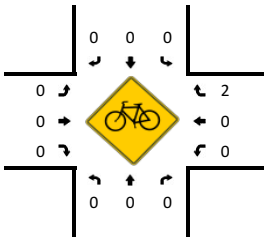
Peak-Hour: 4:30 PM -- 5:30 PM
Peak 15-Min: 5:15 PM -- 5:30 PM

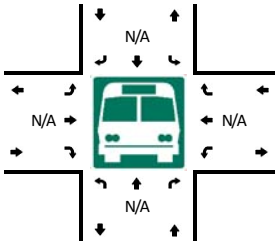




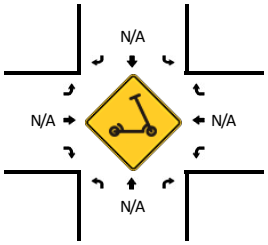












15-Min Count Period Beginning At	CR 263 SB Ramps (Northbound)				CR 263 SB Ramps (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	0	0	0	5	0	29	0	1	182	0	0	0	217	67	0	501	
4:15 PM	0	0	0	0	9	0	27	0	2	192	0	0	0	216	68	0	514	
4:30 PM	0	0	0	0	7	0	24	0	1	189	0	0	0	226	64	0	511	
4:45 PM	0	0	0	0	4	0	24	0	0	178	0	0	0	225	75	0	506	2032
5:00 PM	0	0	0	0	7	0	35	0	3	198	0	0	0	193	58	0	494	2025
5:15 PM	0	0	0	0	5	0	54	0	1	197	0	0	0	225	47	0	529	2040
5:30 PM	0	0	0	0	5	0	34	0	2	166	0	0	0	190	39	0	436	1965
5:45 PM	0	0	0	0	3	0	26	0	1	152	0	0	0	178	43	0	403	1862
6:00 PM	0	0	0	0	2	0	23	0	4	125	0	0	0	151	70	0	375	1743
6:15 PM	0	0	0	0	7	0	28	0	0	156	0	0	0	124	44	0	359	1573
6:30 PM	0	0	0	0	2	0	17	0	4	138	0	0	0	147	36	0	344	1481
6:45 PM	0	0	0	0	5	0	24	0	2	139	0	0	0	139	50	0	359	1437

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	0	0	0	20	0	216	0	4	788	0	0	0	900	188	0	2116
Heavy Trucks	0	0	0		0	0	4		0	0	0		0	4	0		8
Buses																	
Pedestrians		0				20				0				0			20
Bicycles	0	0	0		0	0	0		0	0	0		0	0	8		8
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

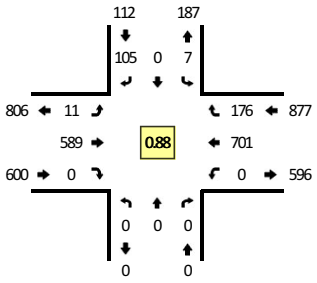
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

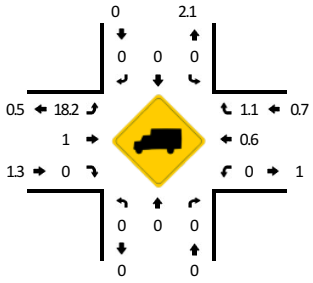
LOCATION: CR 263 SB Ramps -- Maple Rd
CITY/STATE: University at Buffalo, NY

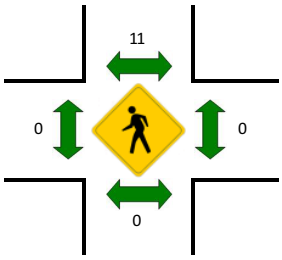
QC JOB #: 17217104
DATE: Sat, Sep 13 2025

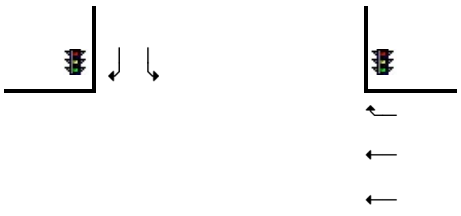
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM

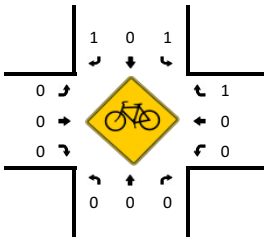


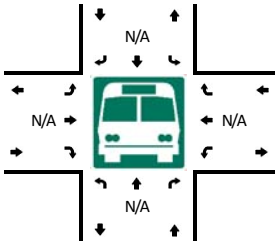




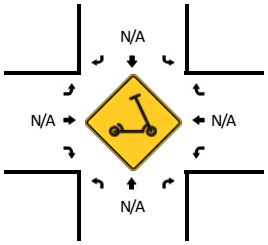












15-Min Count Period Beginning At	CR 263 SB Ramps (Northbound)				CR 263 SB Ramps (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	0	0	0	0	2	0	25	0	2	121	0	0	0	165	32	0	347	
11:15 AM	0	0	0	0	0	0	22	1	1	121	0	0	0	160	49	0	354	
11:30 AM	0	0	0	0	2	0	23	0	2	145	0	0	0	182	41	0	395	
11:45 AM	0	0	0	0	2	0	25	0	5	127	0	0	0	168	52	0	379	1475
12:00 PM	0	0	0	0	0	0	23	0	0	131	0	0	0	157	39	0	350	1478
12:15 PM	0	0	0	0	1	0	31	0	4	159	0	0	0	152	43	0	390	1514
12:30 PM	0	0	0	0	0	0	20	0	2	147	0	0	0	178	38	0	385	1504
12:45 PM	0	0	0	0	2	0	29	0	4	149	0	0	0	216	50	0	450	1575
1:00 PM	0	0	0	0	4	0	25	0	1	134	0	0	0	155	45	0	364	1589
1:15 PM	0	0	0	0	2	0	30	0	1	130	0	0	0	129	38	0	330	1529
1:30 PM	0	0	0	0	3	0	25	0	2	137	0	0	0	161	33	0	361	1505
1:45 PM	0	0	0	0	4	0	33	0	1	134	0	0	0	152	45	0	369	1424

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	0	0	0	8	0	116	0	16	596	0	0	0	864	200	0	1800
Heavy Trucks	0	0	0		0	0	0		0	4	0		0	4	4		12
Buses																	
Pedestrians		0				20				0				0			20
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

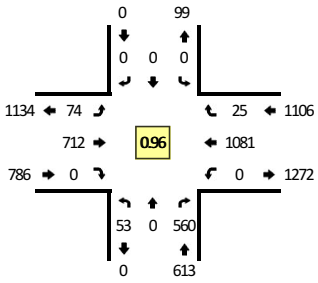
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

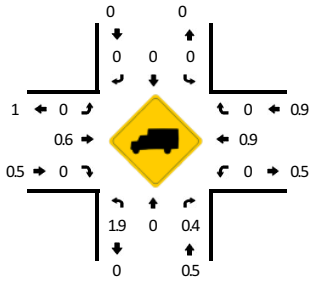
LOCATION: CR 263 NB Ramps -- Maple Rd
CITY/STATE: Erie, NY

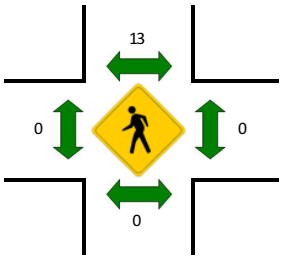
QC JOB #: 17217105
DATE: Thu, Sep 11 2025

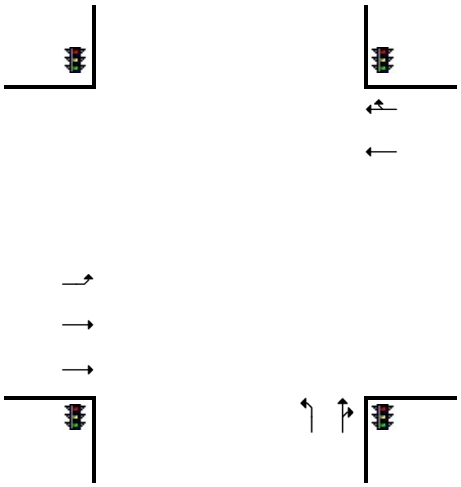
Peak-Hour: 4:15 PM -- 5:15 PM
Peak 15-Min: 4:30 PM -- 4:45 PM

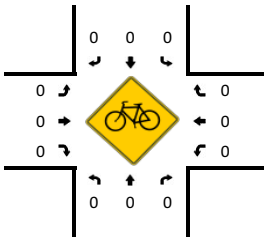


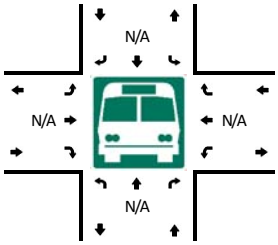
TRUE DATA TO IMPROVE MOBILITY

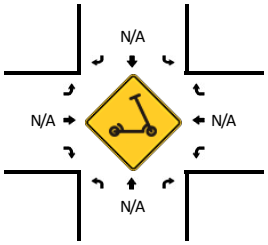












15-Min Count Period Beginning At	CR 263 NB Ramps (Northbound)				CR 263 NB Ramps (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	10	0	124	0	0	0	0	0	18	168	0	0	0	274	7	0	601	
4:15 PM	19	0	127	0	0	0	0	0	17	183	0	0	0	268	3	0	617	
4:30 PM	9	0	153	0	0	0	0	0	15	179	0	0	0	287	10	0	653	
4:45 PM	17	0	141	0	0	0	0	0	22	163	0	0	0	285	5	0	633	2504
5:00 PM	8	0	139	0	0	0	0	0	20	187	0	0	0	241	7	0	602	2505
5:15 PM	18	0	135	0	0	0	0	0	12	189	0	0	0	254	6	0	614	2502
5:30 PM	12	1	104	0	0	0	0	0	19	152	0	0	0	219	10	0	517	2366
5:45 PM	13	0	120	0	0	0	0	0	16	136	0	0	0	213	7	0	505	2238
6:00 PM	6	0	96	0	0	0	0	0	15	114	0	0	0	210	6	0	447	2083
6:15 PM	11	0	104	0	0	0	0	0	19	144	0	0	0	154	5	0	437	1906
6:30 PM	12	0	96	0	0	0	0	0	8	129	0	0	0	172	4	0	421	1810
6:45 PM	10	0	88	0	0	0	0	0	18	126	0	0	0	178	7	0	427	1732

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	36	0	612	0	0	0	0	0	60	716	0	0	0	1148	40	0	2612
Heavy Trucks	0	0	4		0	0	0		0	8	0		0	12	0		24
Buses																	
Pedestrians		0				16				0				0			16
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

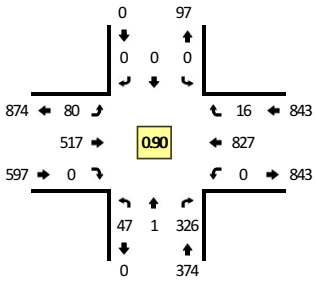
Type of peak hour being reported: Intersection Peak

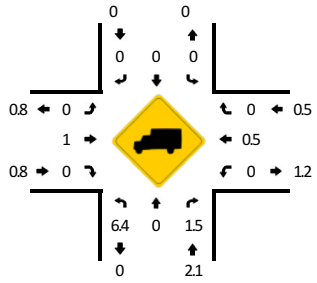
Method for determining peak hour: Total Entering Volume

LOCATION: CR 263 NB Ramps -- Maple Rd
CITY/STATE: Erie, NY

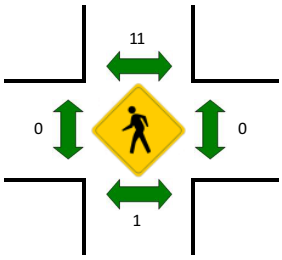
QC JOB #: 17217106
DATE: Sat, Sep 13 2025

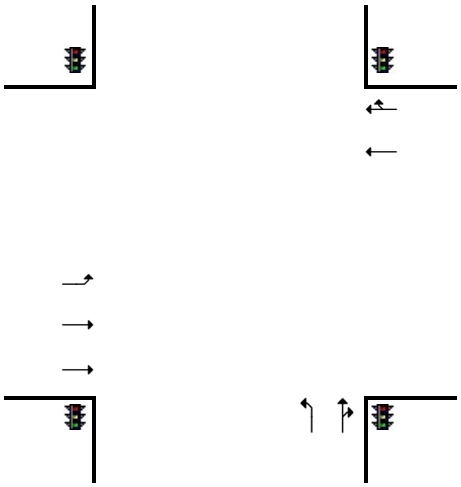
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM

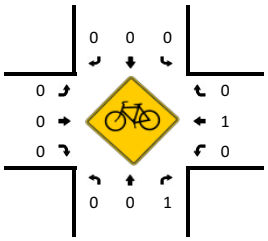


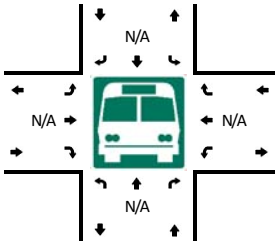


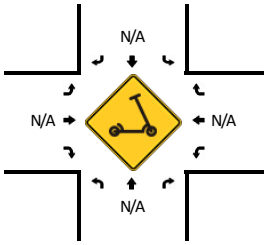












15-Min Count Period Beginning At	CR 263 NB Ramps (Northbound)				CR 263 NB Ramps (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	10	0	86	0	0	0	0	0	18	109	0	0	0	186	2	0	411	
11:15 AM	11	0	78	0	0	0	0	0	11	110	0	0	0	198	6	0	414	
11:30 AM	12	2	76	0	0	0	0	0	14	130	0	0	0	212	8	0	454	
11:45 AM	22	0	78	0	0	0	0	0	11	120	0	0	0	200	2	0	433	1712
12:00 PM	13	0	93	0	0	0	0	0	16	116	0	0	0	184	2	0	424	1725
12:15 PM	9	1	86	0	0	0	0	0	17	144	0	0	0	184	5	0	446	1757
12:30 PM	12	0	74	0	0	0	0	0	17	126	0	0	0	203	1	0	433	1736
12:45 PM	16	0	84	0	0	0	0	0	21	130	0	0	0	250	5	0	506	1809
1:00 PM	10	0	82	0	0	0	0	0	25	117	0	0	0	190	5	0	429	1814
1:15 PM	10	0	74	0	0	0	0	0	15	117	0	0	0	156	4	0	376	1744
1:30 PM	6	0	76	0	0	0	0	0	21	115	0	0	0	188	4	0	410	1721
1:45 PM	3	0	79	0	0	0	0	0	15	126	0	0	0	194	3	0	420	1635

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	64	0	336	0	0	0	0	0	84	520	0	0	0	1000	20	0	2024
Heavy Trucks	0	0	8		0	0	0		0	0	0		0	8	0		16
Buses																	
Pedestrians		0				8				0				0			8
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

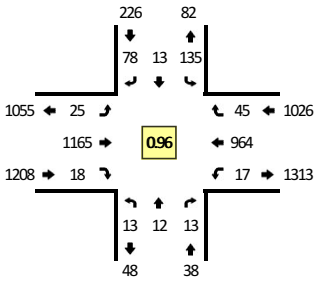
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: N Maplemere Rd -- Maple Rd
CITY/STATE: Erie, NY

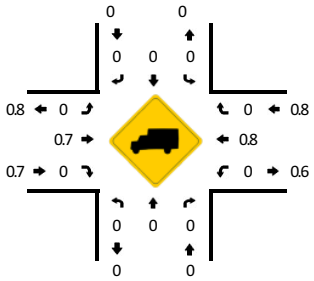
QC JOB #: 17217107
DATE: Thu, Sep 11 2025

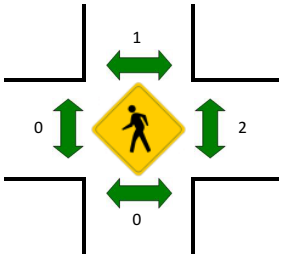
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:30 PM -- 4:45 PM

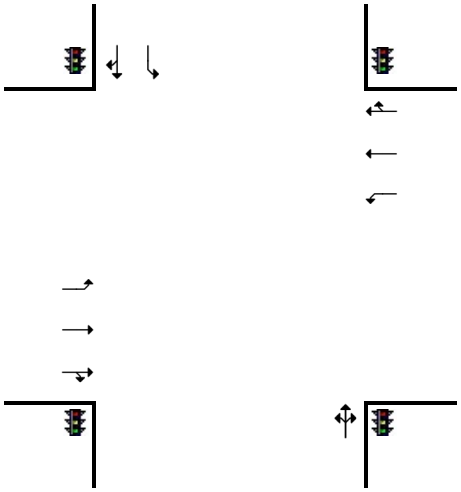


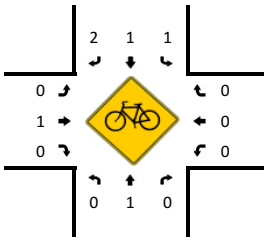


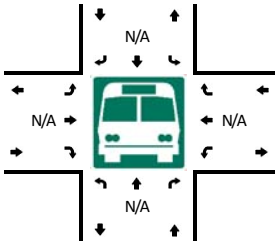
TRUE DATA TO IMPROVE MOBILITY

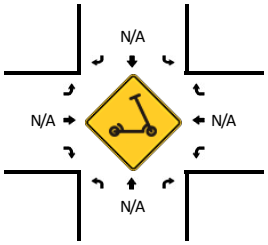












15-Min Count Period Beginning At	N Maplemere Rd (Northbound)				N Maplemere Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	2	0	5	0	34	4	45	0	7	278	2	0	6	210	11	0	604	
4:15 PM	1	1	2	0	31	2	10	0	5	282	5	0	2	243	14	0	598	
4:30 PM	4	5	3	0	31	3	14	0	8	318	6	0	3	247	6	0	648	
4:45 PM	6	6	3	0	39	4	9	0	5	287	5	0	6	264	14	0	648	2498
5:00 PM	3	1	4	0	23	2	11	0	6	308	5	0	2	221	9	0	595	2489
5:15 PM	5	1	3	0	20	5	10	0	6	300	6	0	4	221	16	0	597	2488
5:30 PM	7	1	1	0	20	4	12	0	9	228	5	0	2	198	14	0	501	2341
5:45 PM	1	2	1	0	12	1	13	0	11	227	8	0	5	190	19	0	490	2183
6:00 PM	5	3	2	0	15	1	9	0	8	192	4	0	1	178	8	0	426	2014
6:15 PM	2	4	6	0	14	5	10	0	15	202	3	0	2	134	15	0	412	1829
6:30 PM	2	0	4	0	22	2	8	0	9	215	3	0	3	159	13	0	440	1768
6:45 PM	3	3	1	0	20	2	5	0	2	189	1	0	4	163	7	0	400	1678

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	16	20	12	0	124	12	56	0	32	1272	24	0	12	988	24	0	2592
Heavy Trucks	0	0	0		0	0	0		0	16	0		0	12	0		28
Buses																	
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	8		0	0	0		0	0	0		8
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

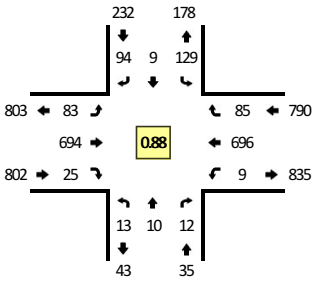
Type of peak hour being reported: Intersection Peak

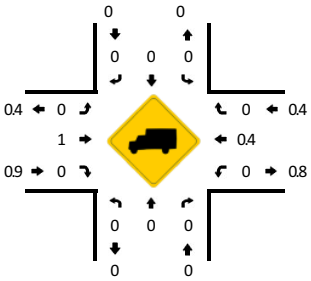
Method for determining peak hour: Total Entering Volume

LOCATION: N Maplemere Rd -- Maple Rd
CITY/STATE: Erie, NY

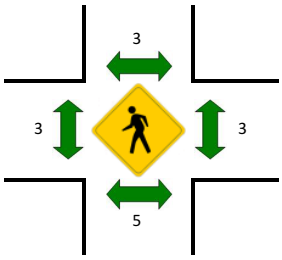
QC JOB #: 17217108
DATE: Sat, Sep 13 2025

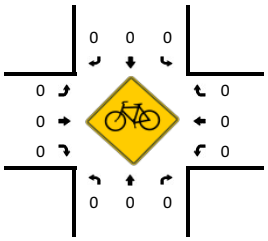
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM

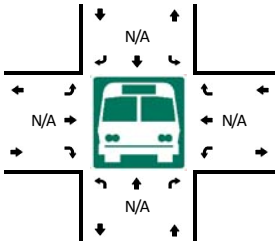


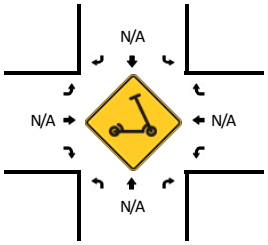


TRUE DATA TO IMPROVE MOBILITY









15-Min Count Period Beginning At	N Maplemere Rd (Northbound)				N Maplemere Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	2	0	2	0	11	2	7	0	17	156	2	0	3	167	14	0	383	
11:15 AM	2	0	4	0	11	1	4	0	7	167	5	0	6	180	11	0	398	
11:30 AM	4	0	2	0	10	0	29	0	12	180	1	0	3	166	17	0	424	
11:45 AM	1	4	6	0	7	2	10	0	7	182	3	0	3	180	15	0	420	1625
12:00 PM	3	1	4	0	11	2	9	0	7	181	8	0	3	159	4	0	392	1634
12:15 PM	5	3	2	0	7	1	12	0	16	194	4	0	1	171	9	0	425	1661
12:30 PM	3	3	3	0	38	3	17	0	25	172	5	0	2	177	27	0	475	1712
12:45 PM	5	4	1	0	55	4	34	0	24	168	7	0	3	197	28	0	530	1822
1:00 PM	0	0	6	0	29	1	31	0	18	160	9	0	3	151	21	0	429	1859
1:15 PM	2	1	2	0	5	2	4	0	12	165	2	0	4	153	14	0	366	1800
1:30 PM	2	1	3	0	14	0	7	0	6	182	3	0	2	176	7	0	403	1728
1:45 PM	3	0	1	0	7	2	20	0	11	181	2	0	3	163	12	0	405	1603

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	20	16	4	0	220	16	136	0	96	672	28	0	12	788	112	0	2120
Heavy Trucks	0	0	0		0	0	0		0	4	0		0	8	0		12
Buses																	
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

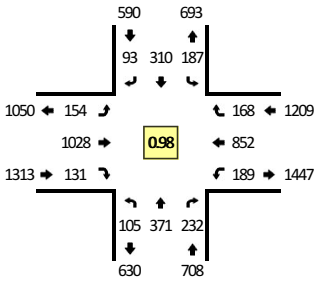
Type of peak hour being reported: Intersection Peak

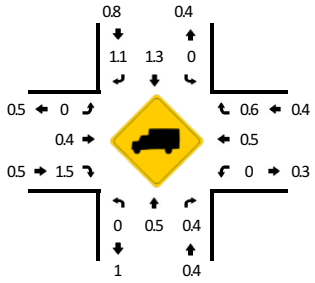
Method for determining peak hour: Total Entering Volume

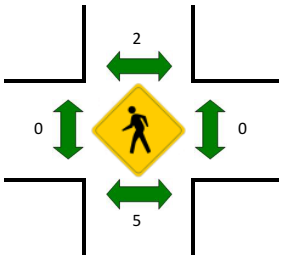
LOCATION: N Forest Rd -- Maple Rd
CITY/STATE: Erie, NY

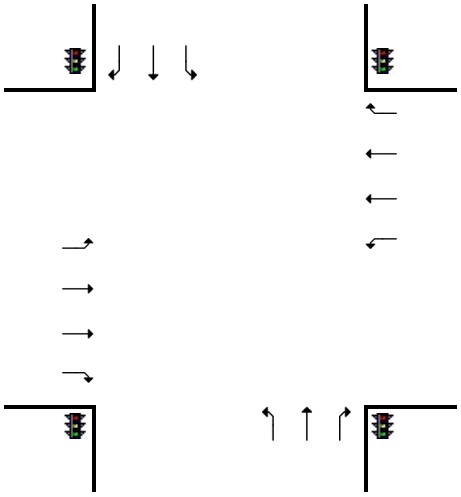
QC JOB #: 17217109
DATE: Thu, Sep 11 2025

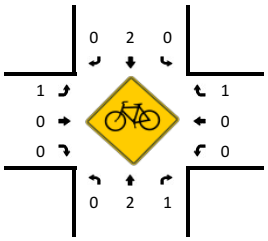
Peak-Hour: 4:30 PM -- 5:30 PM
Peak 15-Min: 4:45 PM -- 5:00 PM

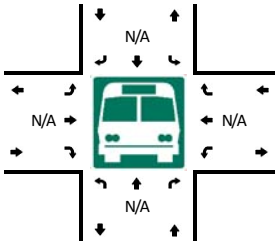


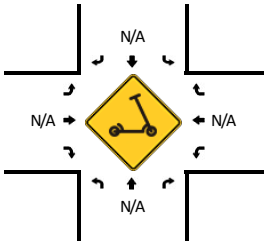












15-Min Count Period Beginning At	N Forest Rd (Northbound)				N Forest Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	31	79	55	0	48	84	30	0	46	225	32	0	41	182	28	0	881	
4:15 PM	31	88	52	0	48	72	19	0	44	227	30	0	41	219	47	0	918	
4:30 PM	30	92	69	0	42	62	22	0	28	266	39	0	39	215	35	0	939	
4:45 PM	25	93	48	0	40	85	27	0	36	263	32	0	48	229	49	0	975	3713
5:00 PM	26	97	61	0	50	68	22	0	45	266	25	0	52	214	39	0	965	3797
5:15 PM	24	89	54	0	55	95	22	0	45	233	35	0	50	194	45	0	941	3820
5:30 PM	19	86	46	0	39	57	20	0	33	197	16	0	51	163	26	0	753	3634
5:45 PM	16	68	57	0	41	55	38	0	36	186	18	0	37	165	41	0	758	3417
6:00 PM	11	51	38	0	40	60	34	0	23	163	30	0	31	164	32	0	677	3129
6:15 PM	13	50	36	0	35	61	24	0	27	169	7	0	22	109	26	0	579	2767
6:30 PM	14	57	40	0	30	52	24	0	40	189	19	0	39	137	17	0	658	2672
6:45 PM	13	49	32	0	28	44	16	0	29	159	24	0	31	139	33	0	597	2511

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	100	372	192	0	160	340	108	0	144	1052	128	0	192	916	196	0	3900
Heavy Trucks	0	4	0		0	4	0		0	0	0		0	4	0		12
Buses																	
Pedestrians		4				0				0				0			4
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

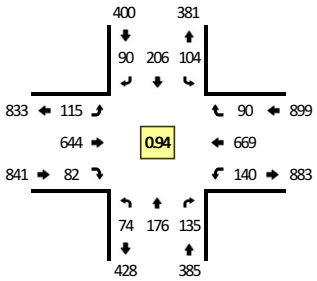
Type of peak hour being reported: Intersection Peak

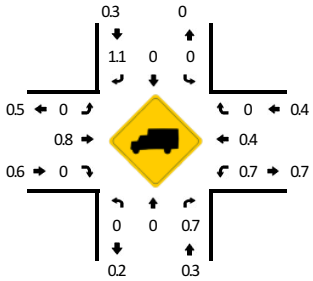
Method for determining peak hour: Total Entering Volume

LOCATION: N Forest Rd -- Maple Rd
CITY/STATE: Erie, NY

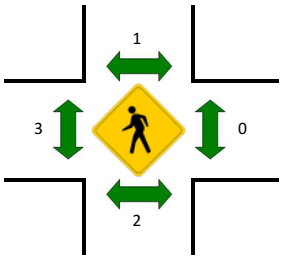
QC JOB #: 17217110
DATE: Sat, Sep 13 2025

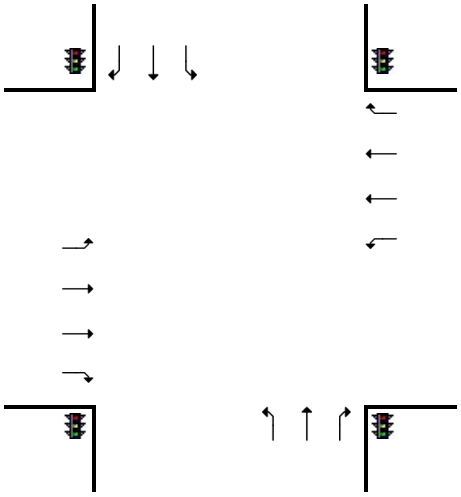
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 12:45 PM -- 1:00 PM

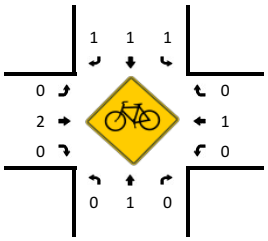


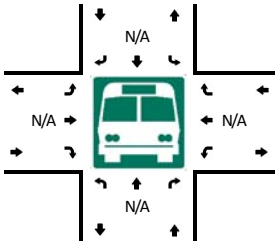


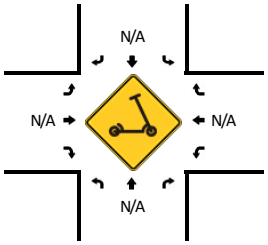
TRUE DATA TO IMPROVE MOBILITY











15-Min Count Period Beginning At	N Forest Rd (Northbound)				N Forest Rd (Southbound)				Maple Rd (Eastbound)				Maple Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	21	42	31	0	23	52	28	0	23	138	11	0	19	140	17	0	545	
11:15 AM	14	45	24	0	37	45	35	0	20	145	13	0	32	156	29	0	595	
11:30 AM	17	53	28	0	26	50	22	0	27	133	11	0	40	142	23	0	572	
11:45 AM	12	48	34	0	23	50	28	0	26	163	16	0	42	157	28	0	627	2339
12:00 PM	14	39	38	0	16	31	26	0	30	152	17	0	42	136	24	0	565	2359
12:15 PM	16	47	38	0	30	55	22	0	35	155	17	0	41	152	21	0	629	2393
12:30 PM	23	45	32	0	23	58	17	0	29	143	26	0	33	182	22	0	633	2454
12:45 PM	19	43	32	0	23	55	28	0	22	187	20	0	34	184	23	0	670	2497
1:00 PM	16	41	33	0	28	38	23	0	29	159	19	0	32	151	24	0	593	2525
1:15 PM	15	49	19	0	28	38	17	0	24	122	15	0	40	140	8	0	515	2411
1:30 PM	14	52	32	0	19	46	23	0	28	153	16	0	41	130	17	0	571	2349
1:45 PM	16	30	27	0	24	40	17	0	15	147	15	0	42	152	22	0	547	2226

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	76	172	128	0	92	220	112	0	88	748	80	0	136	736	92	0	2680
Heavy Trucks	0	0	4		0	0	4		0	4	0		4	8	0		24
Buses																	
Pedestrians		0				0				4				0			4
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

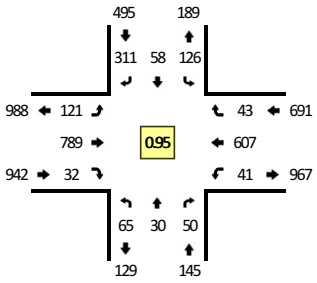
Type of peak hour being reported: Intersection Peak

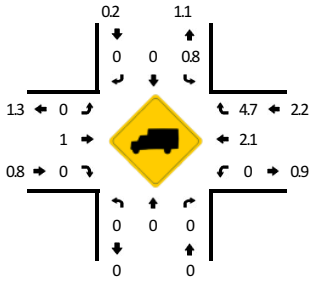
Method for determining peak hour: Total Entering Volume

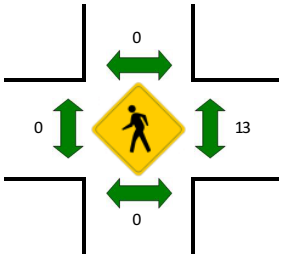
LOCATION: Coventry Rd/N Maplemere Rd -- CR 263
CITY/STATE: University at Buffalo, NY

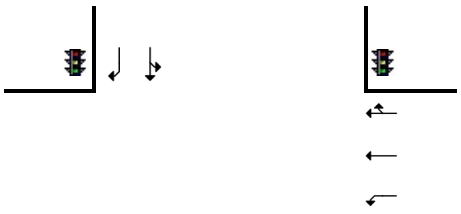
QC JOB #: 17217111
DATE: Thu, Sep 11 2025

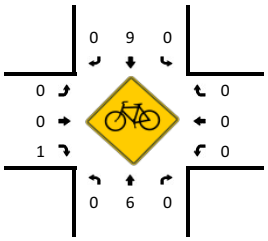
Peak-Hour: 4:30 PM -- 5:30 PM
Peak 15-Min: 5:00 PM -- 5:15 PM

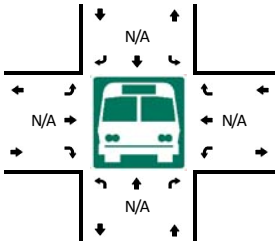


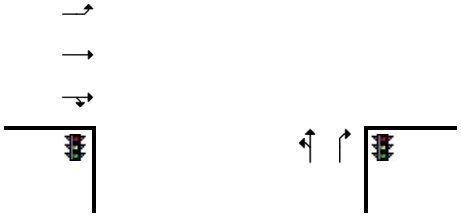


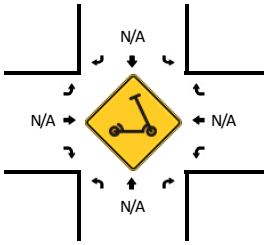












15-Min Count Period Beginning At	Coventry Rd/N Maplemere Rd (Northbound)				Coventry Rd/N Maplemere Rd (Southbound)				CR 263 (Eastbound)				CR 263 (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	32	4	26	0	12	17	60	0	29	195	9	3	8	149	11	0	555	
4:15 PM	20	5	13	0	16	14	28	0	25	186	6	5	6	136	6	1	467	
4:30 PM	24	4	18	0	32	17	69	0	30	144	8	3	13	147	13	1	523	
4:45 PM	14	11	14	0	26	17	65	0	37	225	4	0	6	157	15	1	592	2137
5:00 PM	18	10	9	0	50	12	111	0	19	196	8	1	6	153	8	0	601	2183
5:15 PM	9	5	9	0	18	12	66	0	30	224	12	1	14	150	7	0	557	2273
5:30 PM	2	2	10	0	20	11	57	0	29	176	3	4	21	117	9	0	461	2211
5:45 PM	4	8	11	0	16	6	45	0	23	172	7	2	7	125	6	0	432	2051
6:00 PM	8	7	11	0	15	7	51	0	29	159	7	1	14	157	9	0	475	1925
6:15 PM	9	14	13	0	18	12	53	0	33	125	2	1	8	108	12	0	408	1776
6:30 PM	3	14	9	0	11	12	42	0	42	130	5	2	6	132	9	0	417	1732
6:45 PM	4	4	5	0	24	10	48	0	33	107	3	2	6	85	12	0	343	1643

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	72	40	36	0	200	48	444	0	76	784	32	4	24	612	32	0	2404
Heavy Trucks	0	0	0		4	0	0		0	8	0		0	4	0		16
Buses																	
Pedestrians		0				0				0				16			16
Bicycles	0	0	0		0	12	0		0	0	4		0	0	0		16
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

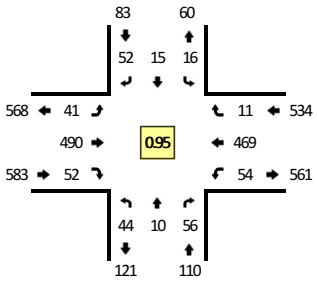
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

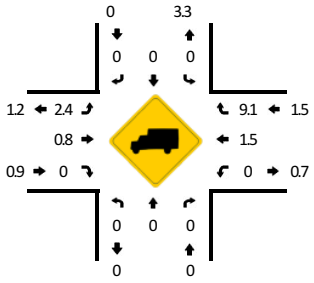
LOCATION: Coventry Rd/N Maplemere Rd -- CR 263
CITY/STATE: University at Buffalo, NY

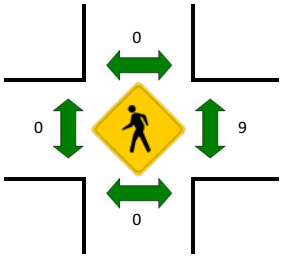
QC JOB #: 17217112
DATE: Sat, Sep 13 2025

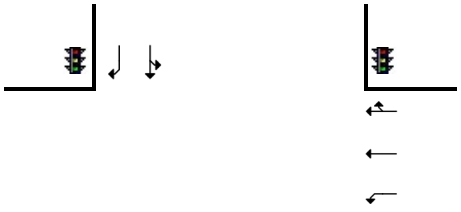
Peak-Hour: 12:15 PM -- 1:15 PM
Peak 15-Min: 1:00 PM -- 1:15 PM

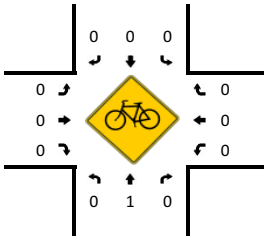


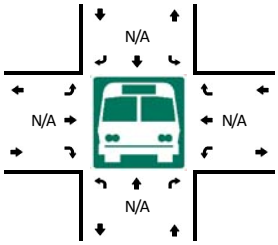
TRUE DATA TO IMPROVE MOBILITY

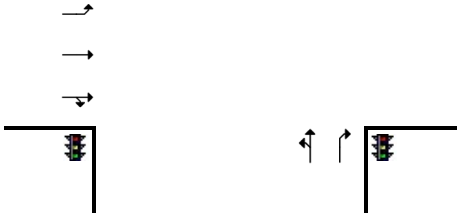


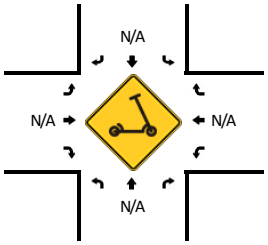












15-Min Count Period Beginning At	Coventry Rd/N Maplemere Rd (Northbound)				Coventry Rd/N Maplemere Rd (Southbound)				CR 263 (Eastbound)				CR 263 (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
11:00 AM	6	3	6	0	2	7	11	0	11	108	10	1	7	134	3	1	310	
11:15 AM	10	5	16	0	6	2	16	0	12	117	4	1	2	112	2	0	305	
11:30 AM	17	3	3	0	9	8	35	0	21	87	9	1	7	103	3	1	307	
11:45 AM	3	2	9	0	8	3	25	0	14	110	8	0	10	136	6	0	334	1256
12:00 PM	5	1	7	0	4	7	19	0	13	122	4	1	6	86	3	1	279	1225
12:15 PM	7	3	5	0	5	2	14	1	5	107	14	1	9	123	2	0	298	1218
12:30 PM	10	3	12	0	2	1	10	0	8	127	15	0	17	122	1	0	328	1239
12:45 PM	7	3	16	0	6	10	11	0	14	131	13	0	21	103	5	0	340	1245
1:00 PM	20	1	23	0	2	2	17	0	11	125	10	2	7	121	3	0	344	1310
1:15 PM	4	1	3	0	4	1	14	0	9	113	11	3	8	101	5	0	277	1289
1:30 PM	10	3	5	0	3	1	5	0	13	122	8	1	8	117	3	0	299	1260
1:45 PM	9	5	8	0	8	2	17	0	13	102	8	3	12	98	6	0	291	1211

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	80	4	92	0	8	8	68	0	44	500	40	8	28	484	12	0	1376
Heavy Trucks	0	0	0		0	0	0		0	8	0		0	0	0		8
Buses																	
Pedestrians		0				0				0				12			12
Bicycles	0	4	0		0	0	0		0	0	0		0	0	0		4
Scooters																	

Comments:

Report generated on 9/19/2025 12:30 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

ATTACHMENT C

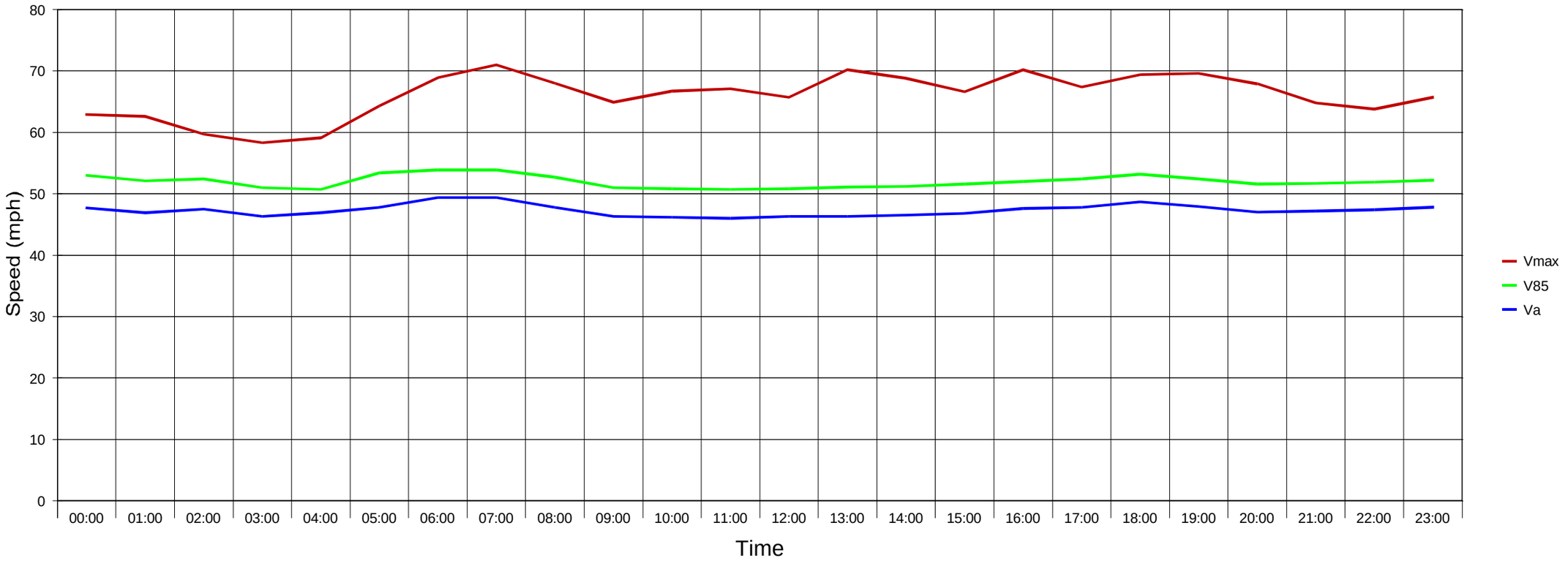
AUTOMATIC TRAFFIC RECORDER (ATR) DATA

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Quality Counts L.L.C.
621 Carlisle Dr, Herndon VA 20170
954-944-2363

Maple Road, EB, 950 ft east of Donna Lea Blvd.; Lat.: 42°59'28.81"N; Long.,78°46'24.73"W, "+" = EB



Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Speed violations:	64	%
Average time interval:	4.3	sec.
Traffic in column:	95	%
ADT:	10953	
Truck Share:	3	%

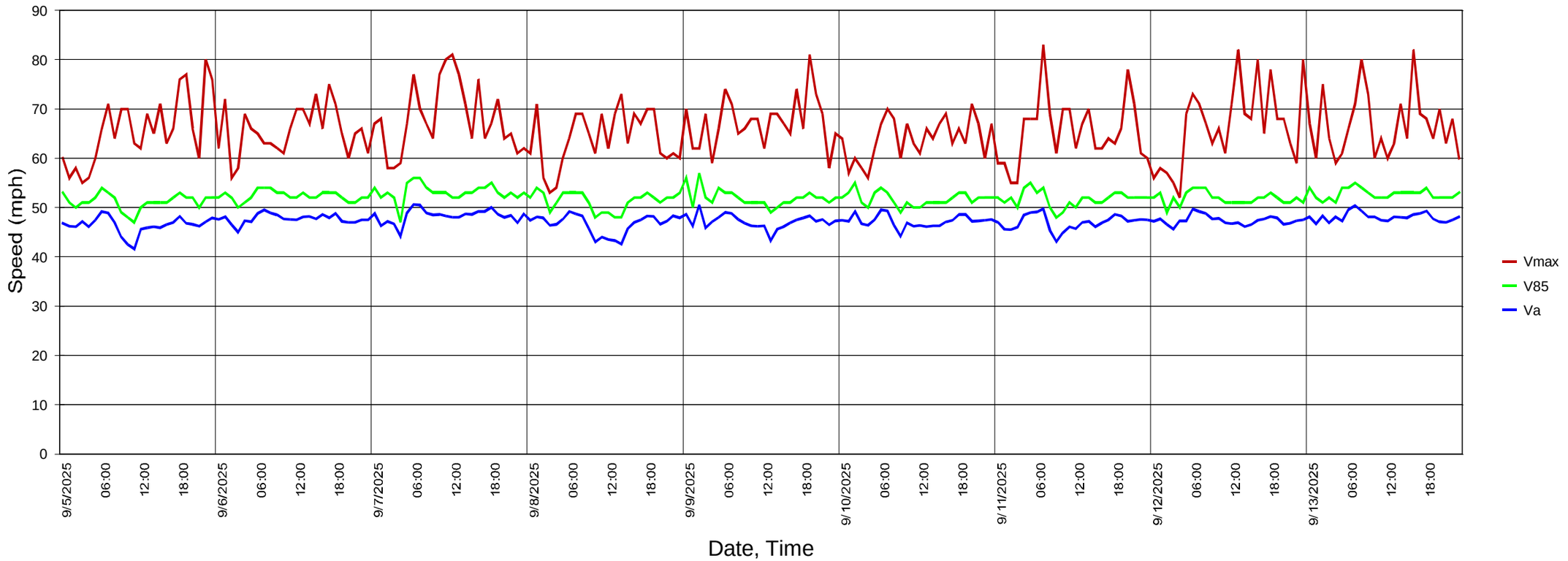
	Count	%	V15	Va	V85	Vmax
Motorcycle/sm	2422	2.5	41	46	52	75
Car	93229	94.6	42	47	52	83
Truck	2513	2.5	41	45	50	64
Tractor-Trailer	403	0.4	39	43	48	56
Total	98567	100	42	47	52	83

SIERZEGA

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

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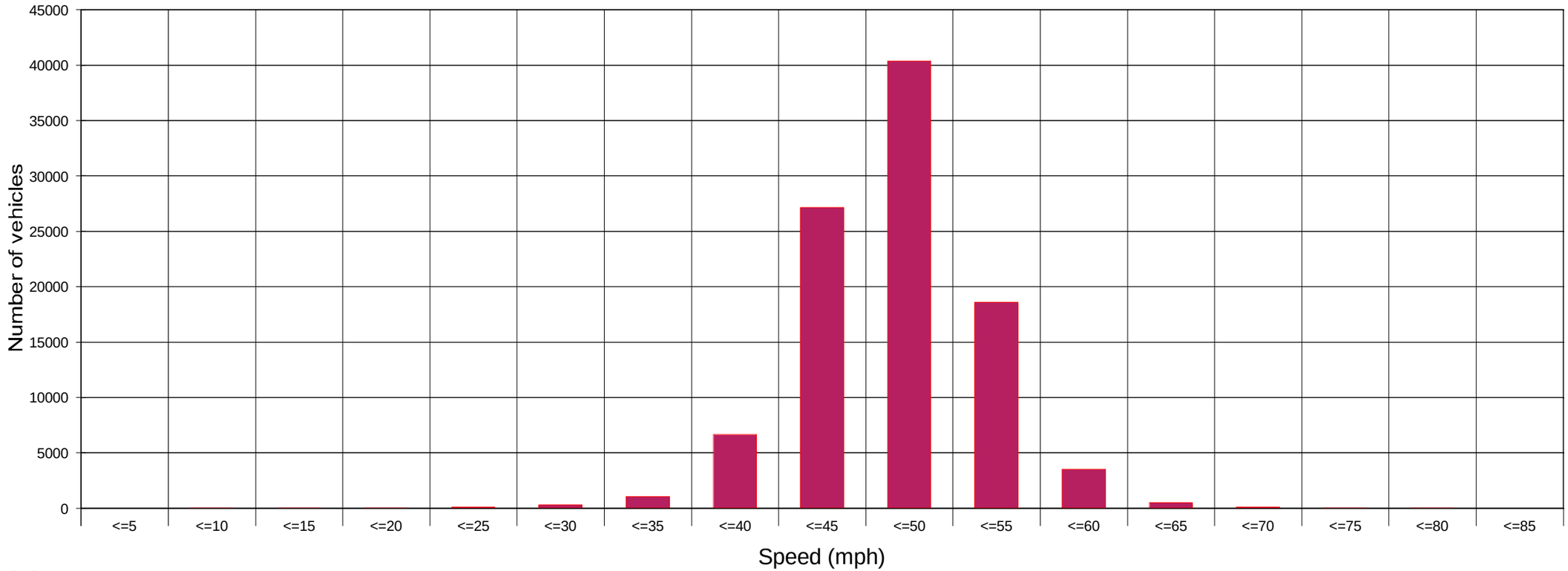
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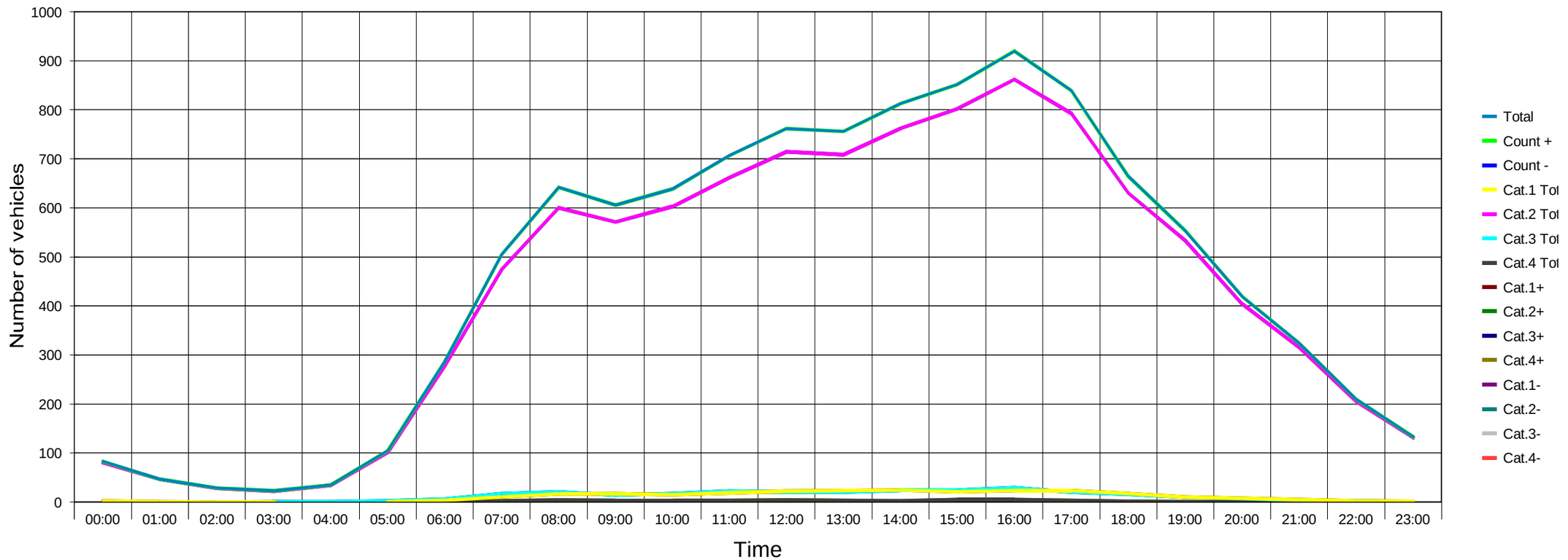
Speed violations:	64	%
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Traffic in column:	95	%
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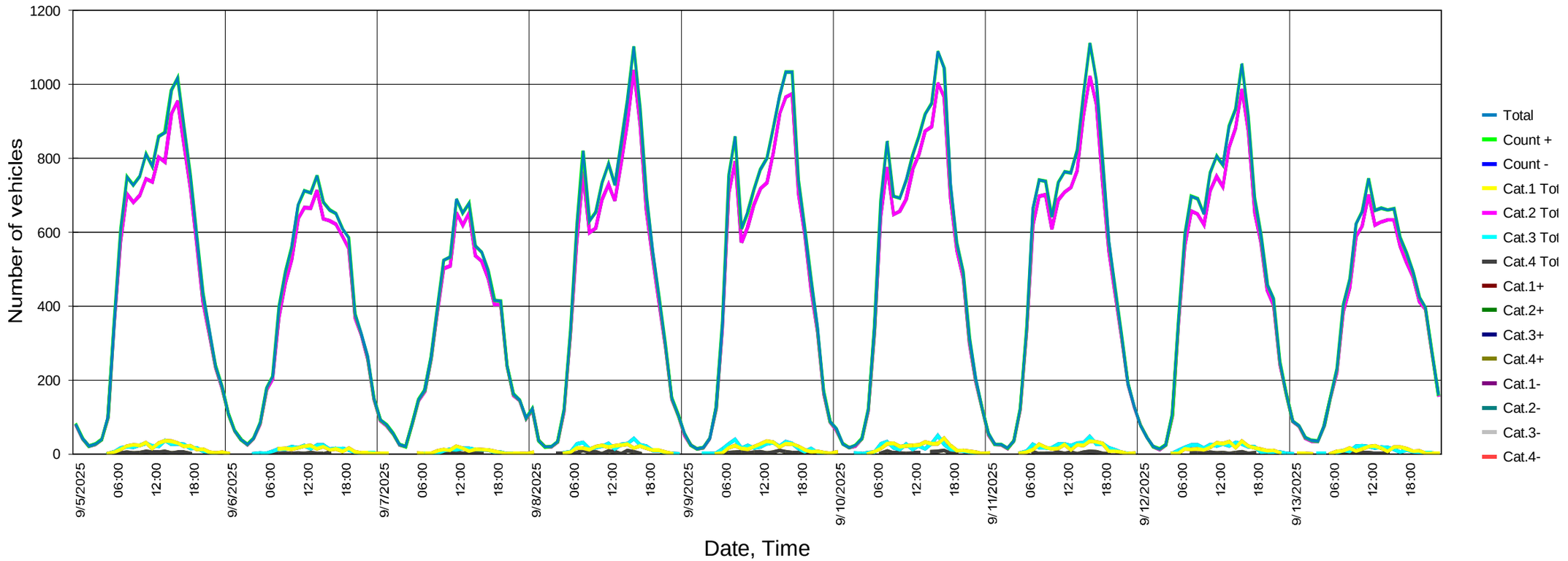
Speed violations:	64	%
Average time interval:	4.3	sec.
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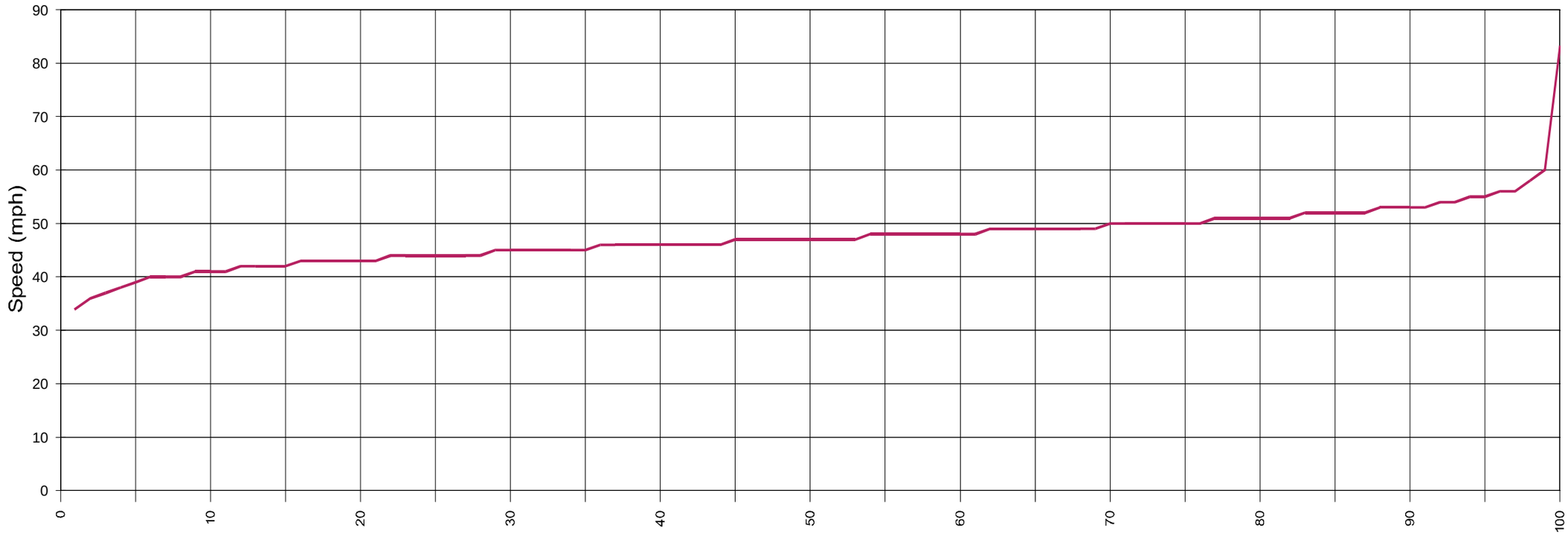
Speed violations:	64 %
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Vx (%) Comment: x % of vehicles are driving at or below y mph

Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

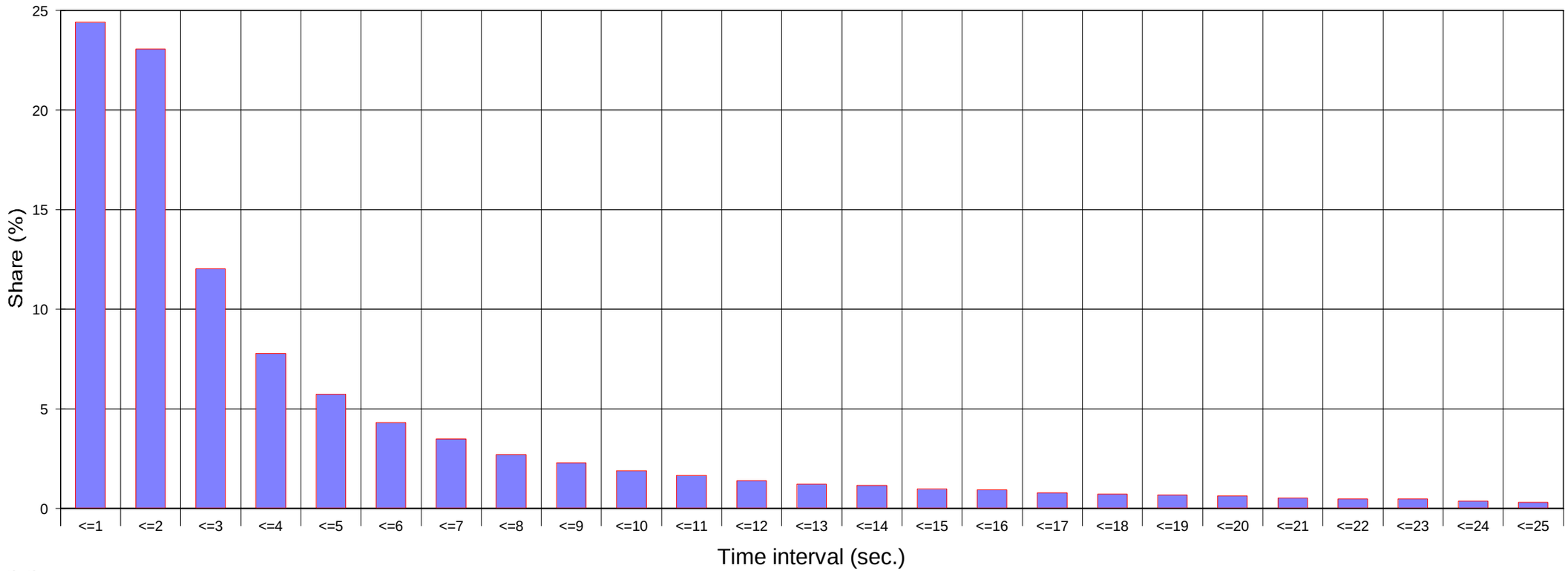
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Average time interval:	4.3 sec.
Traffic in column:	95 %
ADT:	10953
Truck Share:	3 %

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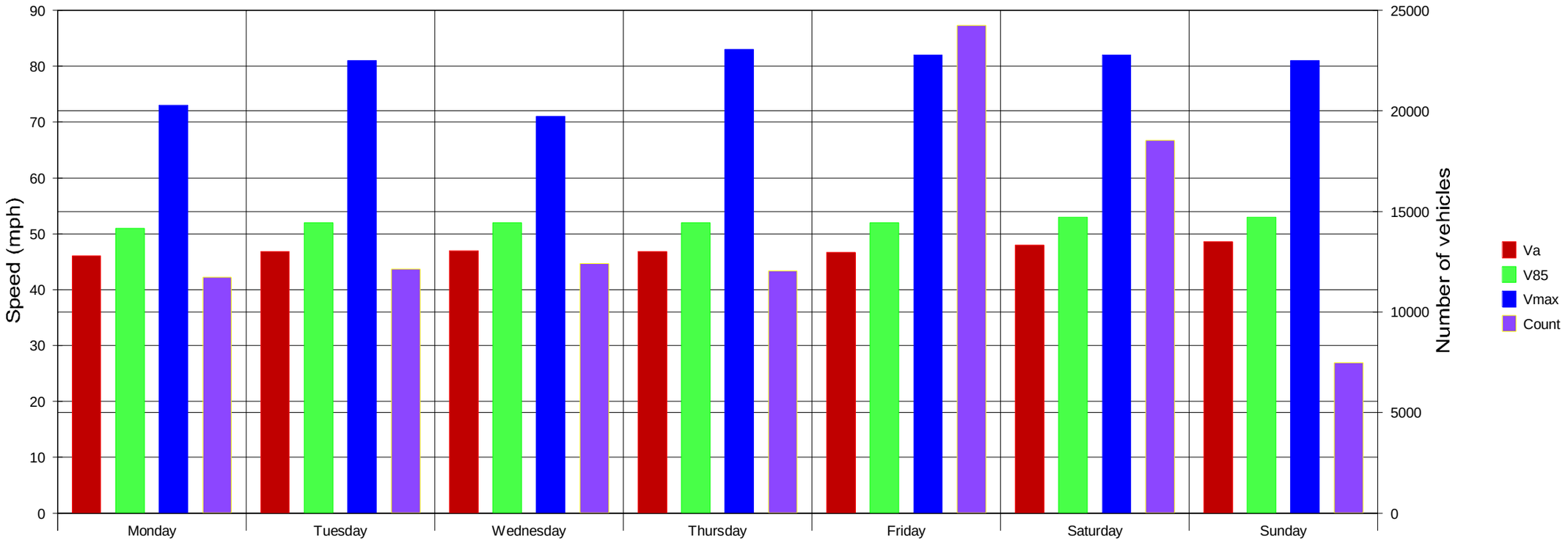
Speed violations:	64	%
Average time interval:	4.3	sec.
Traffic in column:	95	%
ADT:	10953	
Truck Share:	3	%

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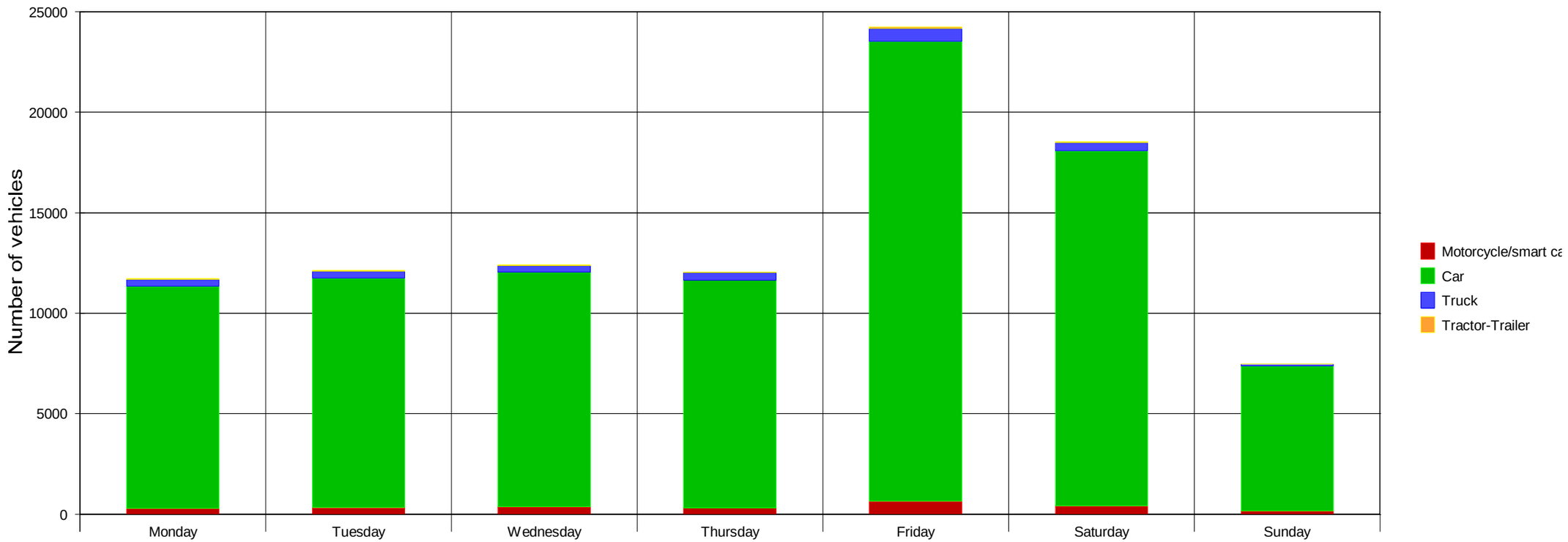
Speed violations:	64 %
Average time interval:	4.3 sec.
Traffic in column:	95 %
ADT:	10953
Truck Share:	3 %

	Count	%	V15	Va	V85	Vmax
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Statistics

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Speed violations:	64 %
Average time interval:	4.3 sec.
Traffic in column:	95 %
ADT:	10953
Truck Share:	3 %

	Count	%	V15	Va	V85	Vmax
Motorcycle/sm	2422	2.5	41	46	52	75
Car	93229	94.6	42	47	52	83
Truck	2513	2.5	41	45	50	64
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Total	98567	100	42	47	52	83

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Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

		Car					Truck					Tractor-Trailer					Truck + Tractor-Trailer					Total:				
	Evaluation:	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph
Direction +	Day:	56667	93.8	47	52	83	1797	3	45	50	64	308	0.5	43	48	56	2105	3.5	45	50	64	**60437**	61.3	47	51	83
	Evening:	7912	96.2	47	52	81	146	1.8	46	51	58	12	0.1	46	49	54	158	1.9	46	51	58	**8228**	8.3	47	52	81
	Night:	3686	97.2	48	52	80	43	1.1	46	50	60	9	0.2	42	47	48	52	1.4	46	49	60	**3791**	3.8	47	52	80
	16 Hours:	64630	94	47	52	83	1943	2.8	45	50	64	320	0.5	43	48	56	2263	3.3	45	50	64	**68719**	69.7	47	52	83
	Weekday traffic:	68354	94.2	47	52	83	1986	2.7	45	50	64	329	0.5	43	48	56	2315	3.2	45	50	64	**72548**	73.6	47	52	83
	Weekend traffic:	24875	95.6	48	53	82	527	2	47	51	60	74	0.3	45	48	55	601	2.3	47	51	60	**26019**	26.4	48	53	82
	Total traffic:	93229	94.6	47	52	83	2513	2.5	45	50	64	403	0.4	43	48	56	2916	3	45	50	64	**98567**	100	47	52	83
Direction -	Day:	0	0				0	0				0	0				0	0				**0**	0			
	Evening:	0	0				0	0				0	0				0	0				**0**	0			
	Night:	0	0				0	0				0	0				0	0				**0**	0			
	16 Hours:	0	0				0	0				0	0				0	0				**0**	0			
	Weekday traffic:	0	0				0	0				0	0				0	0				**0**	0			
	Weekend traffic:	0	0				0	0				0	0				0	0				**0**	0			
	Total traffic:	0	0				0	0				0	0				0	0				**0**	0			
Total	Day:	56667	93.8	47	52	83	1797	3	45	50	64	308	0.5	43	48	56	2105	3.5	45	50	64	**60437**	61.3	47	51	83
	Evening:	7912	96.2	47	52	81	146	1.8	46	51	58	12	0.1	46	49	54	158	1.9	46	51	58	**8228**	8.3	47	52	81
	Night:	3686	97.2	48	52	80	43	1.1	46	50	60	9	0.2	42	47	48	52	1.4	46	49	60	**3791**	3.8	47	52	80
	16 Hours:	64630	94	47	52	83	1943	2.8	45	50	64	320	0.5	43	48	56	2263	3.3	45	50	64	**68719**	69.7	47	52	83
	Weekday traffic:	68354	94.2	47	52	83	1986	2.7	45	50	64	329	0.5	43	48	56	2315	3.2	45	50	64	**72548**	73.6	47	52	83
	Weekend traffic:	24875	95.6	48	53	82	527	2	47	51	60	74	0.3	45	48	55	601	2.3	47	51	60	**26019**	26.4	48	53	82
	Total traffic:	**93229**	**94.6**	**47**	**52**	**83**	**2513**	**2.5**	**45**	**50**	**64**	**403**	**0.4**	**43**	**48**	**56**	**2916**	**3**	**45**	**50**	**64**	98567	**100**	**47**	**52**	**83**

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Evaluation:				Average Traffic									
	From - To	Days	Dir.	Day:		Evening:		Night:		16 Hours:		ADT	
From - To				06:00 - 18:59		19:00 - 21:59		22:00 - 05:59		06:00 - 21:59		00:00 - 23:59	
Days				9		9		8.998		9		8.999	
				AT [veh./h]	AT [veh./13h]	AT [veh./h]	AT [veh./3h]	AT [veh./h]	AT [veh./8h]	AT [veh./h]	AT [veh./16h]	AT [veh./h]	ADT [veh./24h]
Weekday traffic:	Mon - Fri	6	+	776	10073	460	1371	79	632	717	11453	504	12091
			-	0	0	0	0	0	0	0	0	0	0
			T	776	10073	460	1371	79	632	717	11453	504	12091
Weekend traffic:	Sat - Sun	2.999	+	524	6798	380	1135	91	726	497	7943	361	8675
			-	0	0	0	0	0	0	0	0	0	0
			T	524	6798	380	1135	91	726	497	7943	361	8675
Total traffic:		8.999	+	692	8981	433	1292	83	663	643	10283	456	10953
			-	0	0	0	0	0	0	0	0	0	0
			T	692	8981	433	1292	83	663	643	10283	456	10953

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

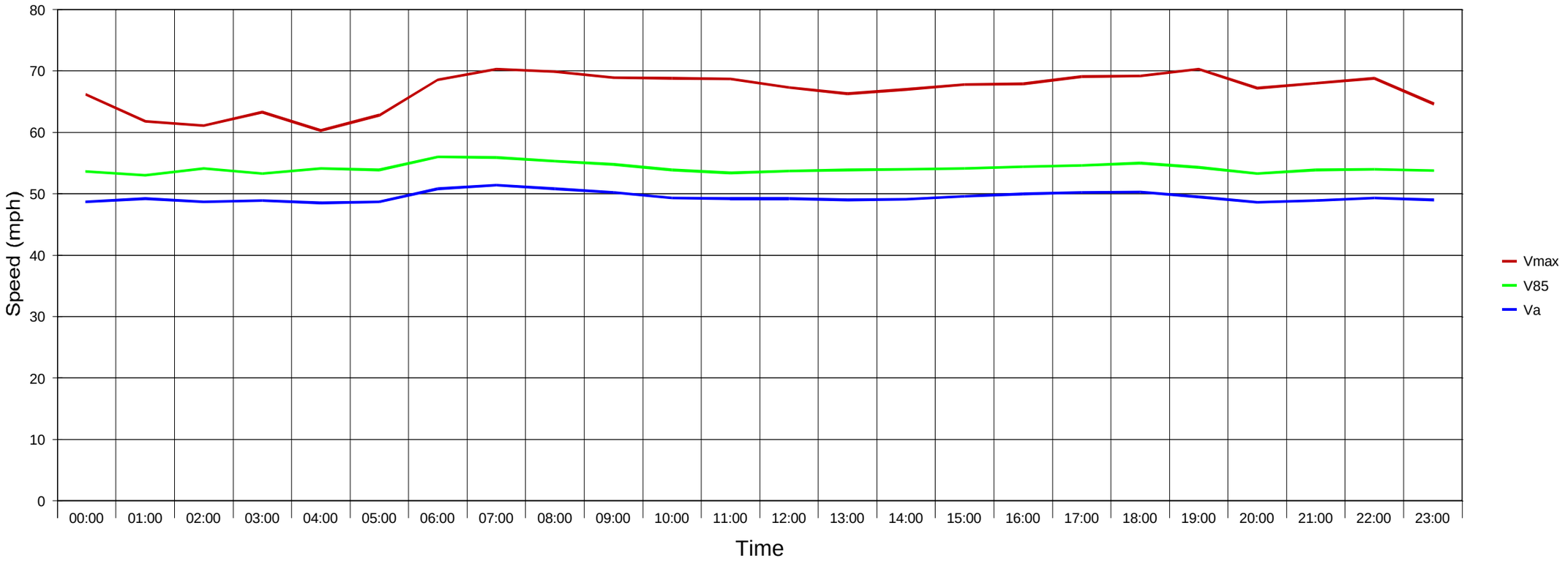
Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Evaluation:				Peak hours				K - Factors		
	From - To	Days	Dir.	From mean values		Absolute		K6	K16	K200
From - To								06:00 - 08:59	06:00 - 21:59	Peak hour
				Time	[veh./h]	Date, time	[veh./h]	15:00 - 17:59		
Weekday traffic:	Mon - Fri	6	+	16:15	1082	9/11/2025, 16:30	1136	0.394	0.947	0.089
			-	00:00	0	0	0	0	0	0
			T	16:15	1082	9/11/2025, 16:30	1136	0.394	0.947	0.089
Weekend traffic:	Sat - Sun	2.999	+	12:15	748	9/6/2025, 12:15	761	0.292	0.915	0.086
			-	00:00	0	0	0	0	0	0
			T	12:15	748	9/6/2025, 12:15	761	0.292	0.915	0.086
Total traffic:		8.999	+	16:15	927	9/11/2025, 16:30	1136	0.367	0.939	0.085
			-	00:00	0	0	0	0	0	0
			T	16:15	927	9/11/2025, 16:30	1136	0.367	0.939	0.085

Legend to K-factors:
K(I) -factor: vehicles in period1+2 / ADT
K(J) -factor: vehicles in 16 hrs. period /ADT
K(200)-factor: vehicles in peak hour /ADT

Quality Counts L.L.C.
621 Carlisle Dr, Herndon VA 20170
954-944-2363

Maple Road, WB, 760 ft. west of Sandhurst Ln; Lat = 42°59'29.66"N; Long = 78°46'15.60"W ; "+" = WB



Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

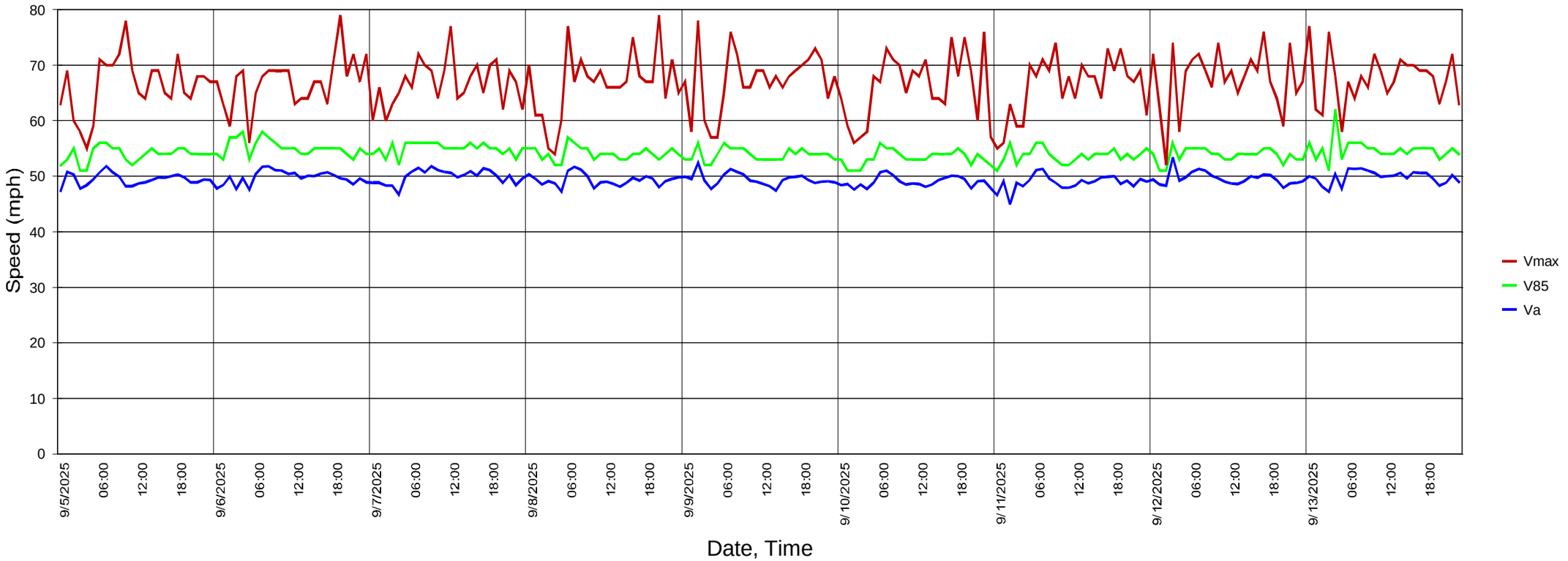
			Count	%	V15	Va	V85	Vmax
Speed violations:	82	%	Motorcycle	2207	2.5	43	49	55	77
Average time interval:	4.2	sec.	Car	82828	94.5	45	50	54	79
Traffic in column:	93	%	Truck	1774	2	46	50	53	70
ADT:	9737		Tractor-Trailer	813	0.9	45	49	53	62
Truck Share:	3	%	Total	87622	100	45	50	54	79

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

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TRUE DATA TO IMPROVE MOBILITY

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			Count	%	V15	Va	V85	Vmax
Speed violations:	82	%	Motorcycle	2207	2.5	43	49	55	77
Average time interval:	4.2	sec.	Car	82828	94.5	45	50	54	79
Traffic in column:	93	%	Truck	1774	2	46	50	53	70
ADT:	9737		Tractor-Trailer	813	0.9	45	49	53	62
Truck Share:	3	%	Total	87622	100	45	50	54	79

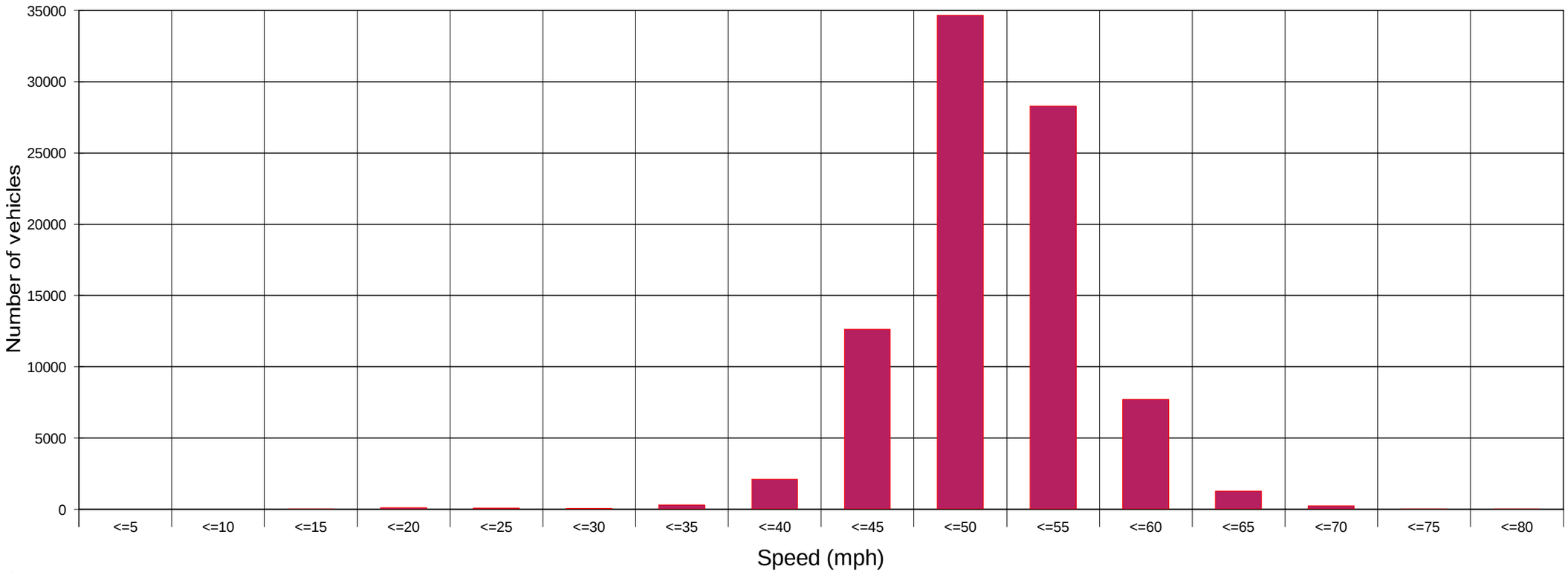
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ADT:	9737		Tractor-Trailer	813	0.9	45	49	53	62
Truck Share:	3	%	Total	87622	100	45	50	54	79

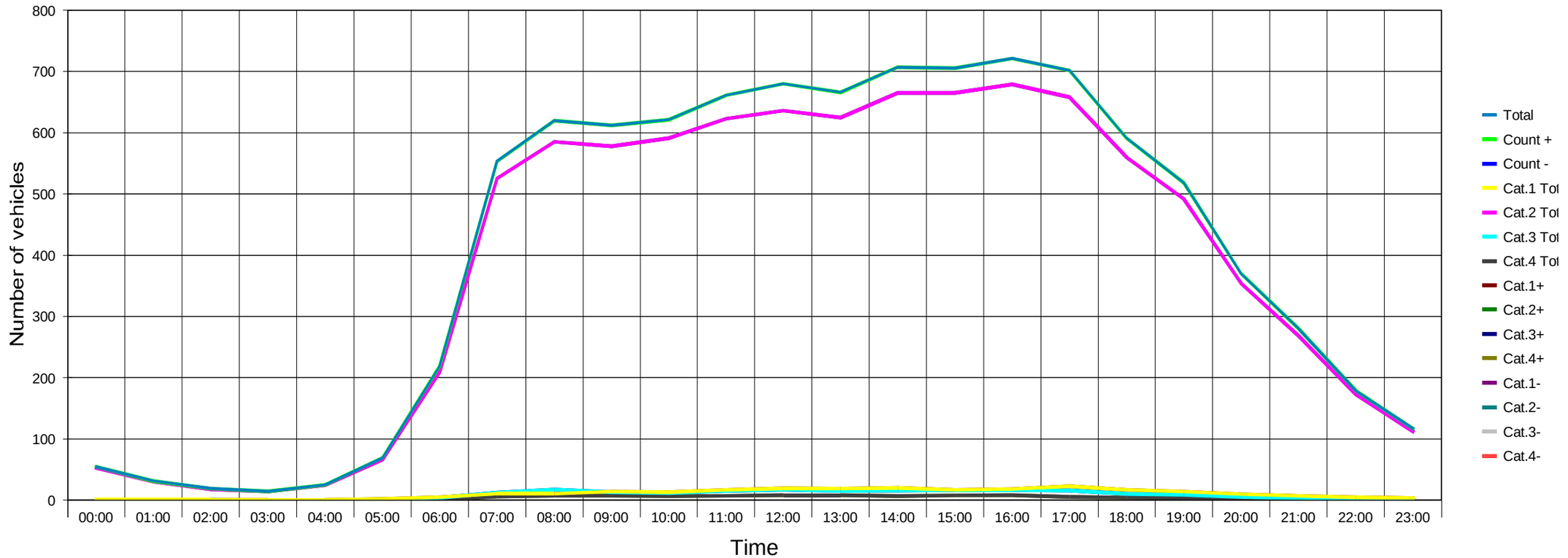
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Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

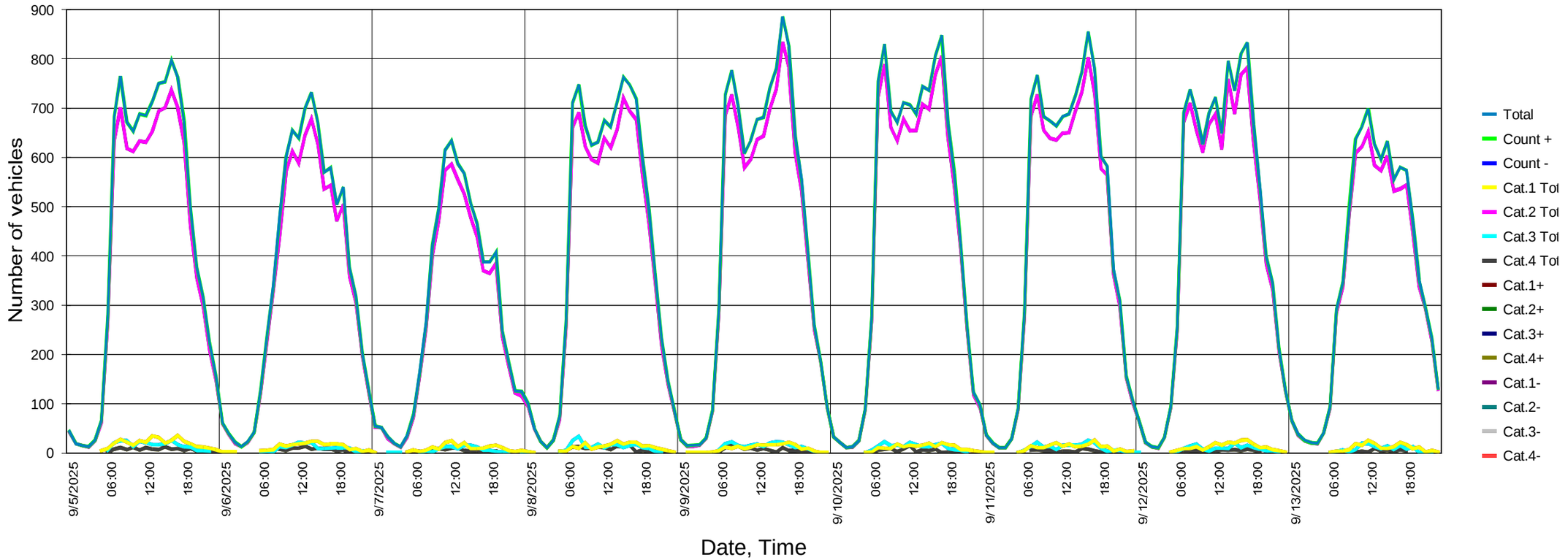
			Count	%	V15	Va	V85	Vmax
Speed violations:	82	%	Motorcycle	2207	2.5	43	49	55	77
Average time interval:	4.2	sec.	Car	82828	94.5	45	50	54	79
Traffic in column:	93	%	Truck	1774	2	46	50	53	70
ADT:	9737		Tractor-Trailer	813	0.9	45	49	53	62
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Average time interval:	4.2 sec.
Traffic in column:	93 %
ADT:	9737
Truck Share:	3 %

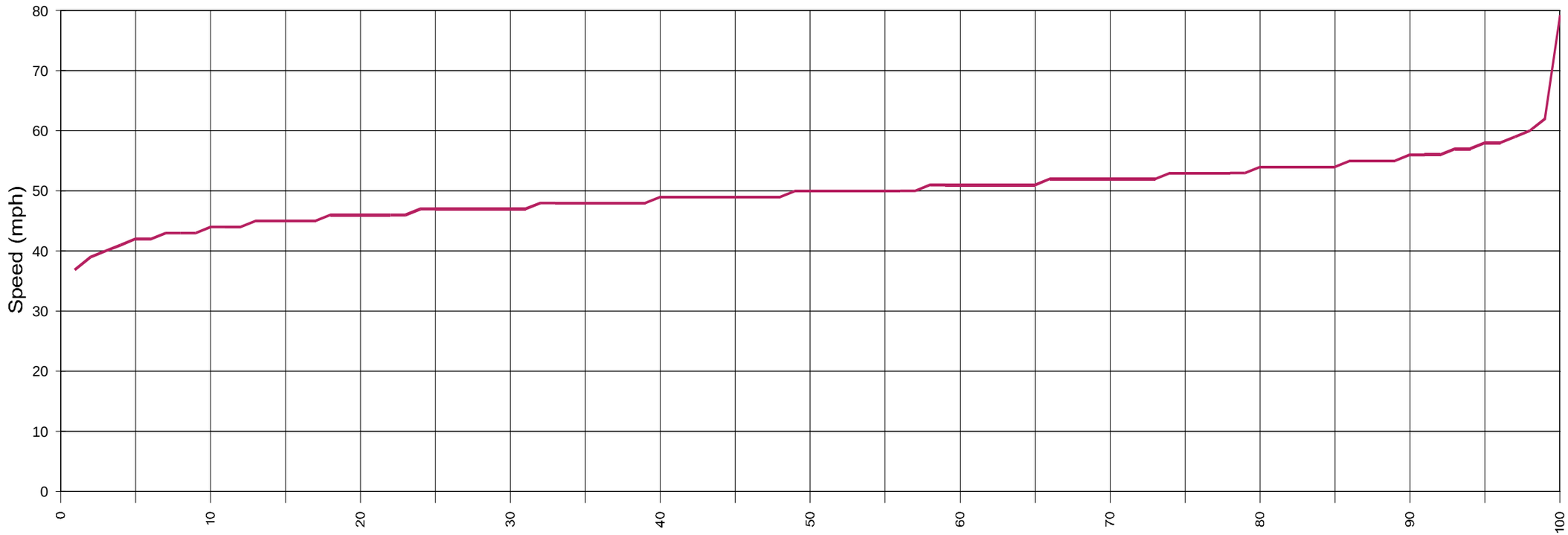
	Count	%	V15	Va	V85	Vmax
Motorcycle	2207	2.5	43	49	55	77
Car	82828	94.5	45	50	54	79
Truck	1774	2	46	50	53	70
Tractor-Trailer	813	0.9	45	49	53	62
Total	87622	100	45	50	54	79

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954-944-2363

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Vx (%) Comment: x % of vehicles are driving at or below y mph

Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Speed violations:	82 %
Average time interval:	4.2 sec.
Traffic in column:	93 %
ADT:	9737
Truck Share:	3 %

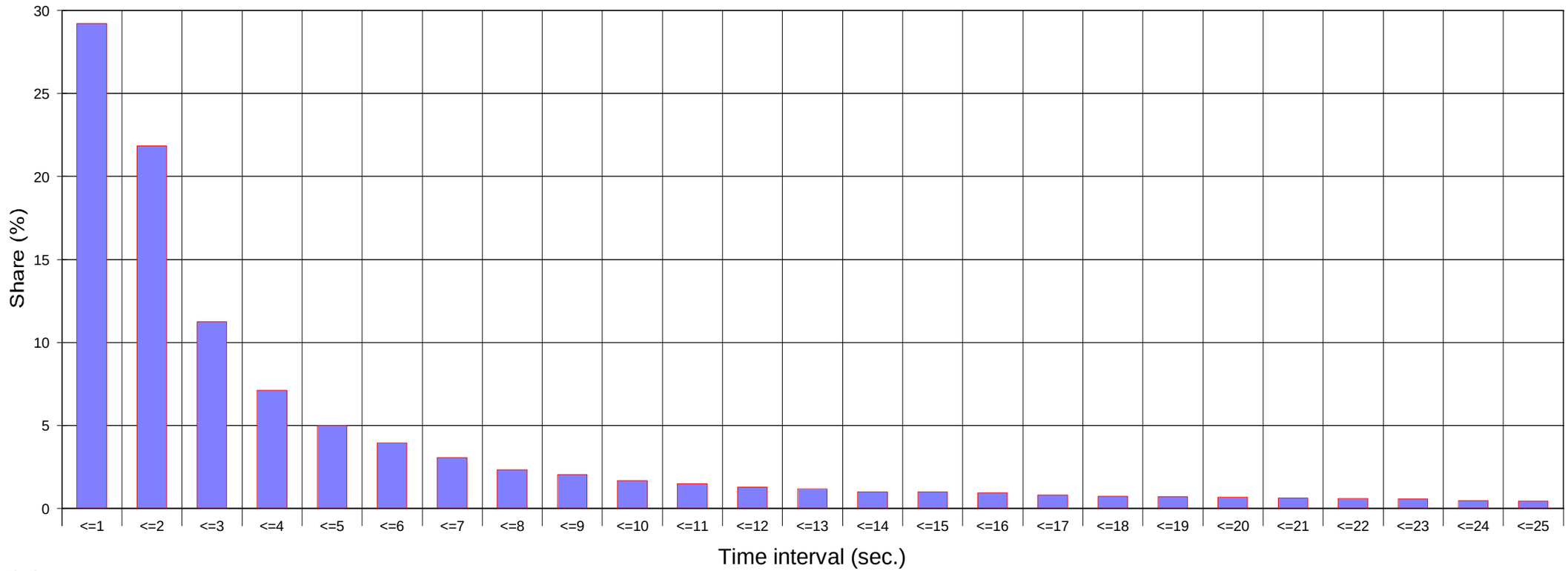
	Count	%	V15	Va	V85	Vmax
Motorcycle	2207	2.5	43	49	55	77
Car	82828	94.5	45	50	54	79
Truck	1774	2	46	50	53	70
Tractor-Trailer	813	0.9	45	49	53	62
Total	87622	100	45	50	54	79

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954-944-2363

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Statistics

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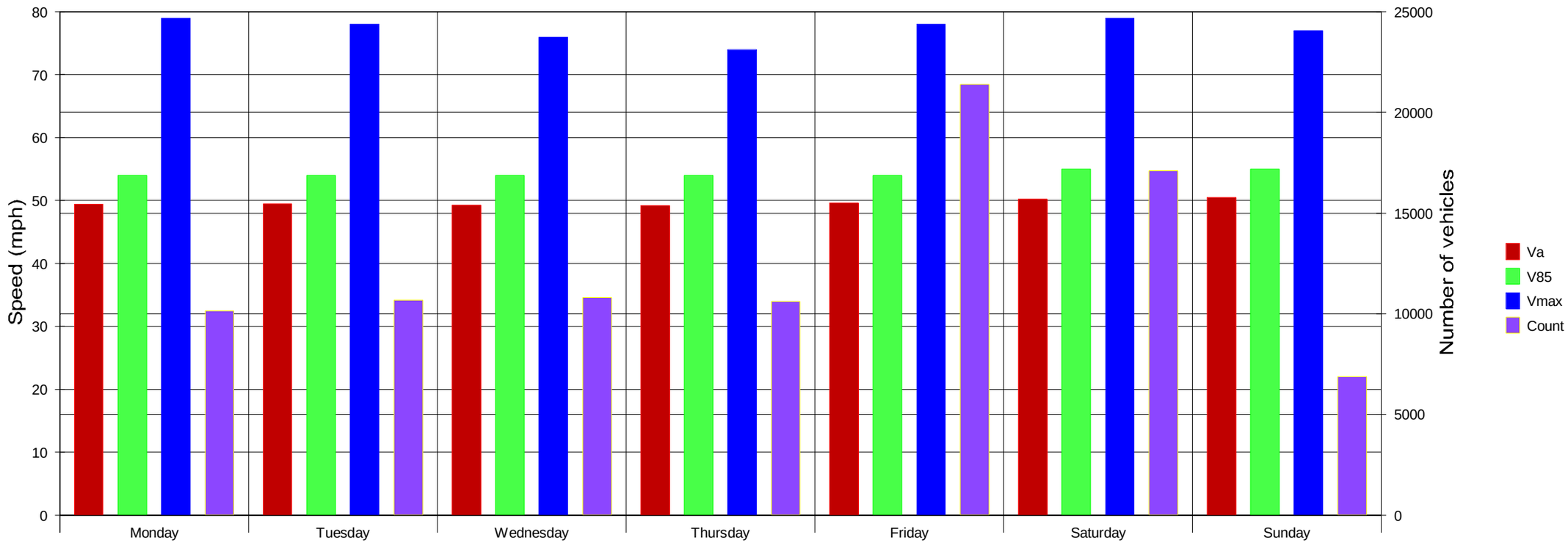
Speed violations:	82 %
Average time interval:	4.2 sec.
Traffic in column:	93 %
ADT:	9737
Truck Share:	3 %

	Count	%	V15	Va	V85	Vmax
Motorcycle	2207	2.5	43	49	55	77
Car	82828	94.5	45	50	54	79
Truck	1774	2	46	50	53	70
Tractor-Trailer	813	0.9	45	49	53	62
Total	87622	100	45	50	54	79

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Statistics

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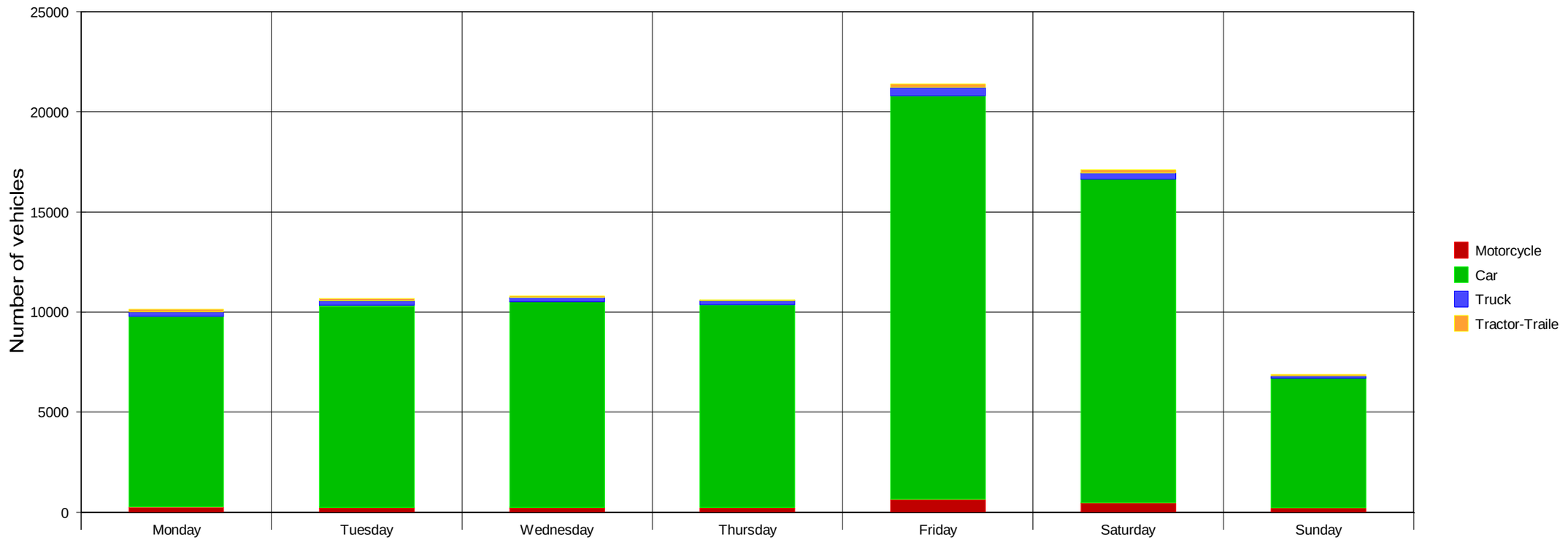
			Count	%	V15	Va	V85	Vmax
Speed violations:	82	%	Motorcycle	2207	2.5	43	49	55	77
Average time interval:	4.2	sec.	Car	82828	94.5	45	50	54	79
Traffic in column:	93	%	Truck	1774	2	46	50	53	70
ADT:	9737		Tractor-Trailer	813	0.9	45	49	53	62
Truck Share:	3	%	Total	87622	100	45	50	54	79

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Statistics

Period: Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Speed violations:	82 %
Average time interval:	4.2 sec.
Traffic in column:	93 %
ADT:	9737
Truck Share:	3 %

	Count	%	V15	Va	V85	Vmax
Motorcycle	2207	2.5	43	49	55	77
Car	82828	94.5	45	50	54	79
Truck	1774	2	46	50	53	70
Tractor-Trailer	813	0.9	45	49	53	62
Total	87622	100	45	50	54	79

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Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

		Car					Truck					Tractor-Trailer					Truck + Tractor-Trailer					Total:				
	Evaluation:	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph	Count	Share [%]	Va mph	V85 mph	Vmax mph
Direction +	Day:	50255	94.3	50	54	78	1204	2.3	49	53	70	539	1	49	53	62	1743	3.3	49	53	70	**53282**	60.8	50	54	78
	Evening:	6964	95.4	49	54	79	105	1.4	49	53	62	45	0.6	49	52	58	150	2.1	49	53	62	**7300**	8.3	49	54	79
	Night:	2889	96.3	49	54	78	23	0.8	47	49	54	11	0.4	49	52	54	34	1.1	47	50	54	**3000**	3.4	49	54	78
	16 Hours:	57263	94.5	50	54	79	1309	2.2	49	53	70	584	1	49	53	62	1893	3.1	49	53	70	**60626**	69.2	49	54	79
	Weekday traffic:	60179	94.5	49	54	79	1332	2.1	49	53	70	595	0.9	49	53	62	1927	3	49	53	70	**63653**	72.6	49	54	79
	Weekend traffic:	22649	94.5	50	55	79	442	1.8	50	54	62	218	0.9	50	53	60	660	2.8	50	54	62	**23969**	27.4	50	55	79
	Total traffic:	82828	94.5	50	54	79	1774	2	50	53	70	813	0.9	49	53	62	2587	3	49	53	70	**87622**	100	50	54	79
Direction -	Day:	0	0				0	0				0	0				0	0				**0**	0			
	Evening:	0	0				0	0				0	0				0	0				**0**	0			
	Night:	0	0				0	0				0	0				0	0				**0**	0			
	16 Hours:	0	0				0	0				0	0				0	0				**0**	0			
	Weekday traffic:	0	0				0	0				0	0				0	0				**0**	0			
	Weekend traffic:	0	0				0	0				0	0				0	0				**0**	0			
	Total traffic:	0	0				0	0				0	0				0	0				**0**	0			
Total	Day:	50255	94.3	50	54	78	1204	2.3	49	53	70	539	1	49	53	62	1743	3.3	49	53	70	**53282**	60.8	50	54	78
	Evening:	6964	95.4	49	54	79	105	1.4	49	53	62	45	0.6	49	52	58	150	2.1	49	53	62	**7300**	8.3	49	54	79
	Night:	2889	96.3	49	54	78	23	0.8	47	49	54	11	0.4	49	52	54	34	1.1	47	50	54	**3000**	3.4	49	54	78
	16 Hours:	57263	94.5	50	54	79	1309	2.2	49	53	70	584	1	49	53	62	1893	3.1	49	53	70	**60626**	69.2	49	54	79
	Weekday traffic:	60179	94.5	49	54	79	1332	2.1	49	53	70	595	0.9	49	53	62	1927	3	49	53	70	**63653**	72.6	49	54	79
	Weekend traffic:	22649	94.5	50	55	79	442	1.8	50	54	62	218	0.9	50	53	60	660	2.8	50	54	62	**23969**	27.4	50	55	79
	Total traffic:	**82828**	**94.5**	**50**	**54**	**79**	**1774**	**2**	**50**	**53**	**70**	**813**	**0.9**	**49**	**53**	**62**	**2587**	**3**	**49**	**53**	**70**	**87622**	**100**	**50**	**54**	**79**

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Evaluation:				Average Traffic									
	From - To	Days	Dir.	Day:		Evening:		Night:		16 Hours:		ADT	
From - To				06:00 - 18:59		19:00 - 21:59		22:00 - 05:59		06:00 - 21:59		00:00 - 23:59	
Days				9		9		8.998		9		8.999	
				AT [veh./h]	AT [veh./13h]	AT [veh./h]	AT [veh./3h]	AT [veh./h]	AT [veh./8h]	AT [veh./h]	AT [veh./16h]	AT [veh./h]	ADT [veh./24h]
Weekday traffic:	Mon - Fri	6	+	684	8880	408	1217	63	500	632	10104	442	10609
			-	0	0	0	0	0	0	0	0	0	0
			T	684	8880	408	1217	63	500	632	10104	442	10609
Weekend traffic:	Sat - Sun	2.999	+	493	6396	355	1059	66	523	467	7461	333	7992
			-	0	0	0	0	0	0	0	0	0	0
			T	493	6396	355	1059	66	523	467	7461	333	7992
Total traffic:		8.999	+	620	8052	390	1164	64	508	577	9223	406	9737
			-	0	0	0	0	0	0	0	0	0	0
			T	620	8052	390	1164	64	508	577	9223	406	9737

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Detailed evaluation Friday, September 5, 2025, 00:00 o'clock to Saturday, September 13, 2025, 23:59 o'clock

Evaluation:				Peak hours				K - Factors		
	From - To	Days	Dir.	From mean values		Absolute		K6	K16	K200
From - To								06:00 - 08:59	06:00 - 21:59	Peak hour
				Time	[veh./h]	Date, time	[veh./h]	15:00 - 17:59		
Weekday traffic:	Mon - Fri	6	+	16:30	817	9/9/2025, 16:15	902	0.388	0.952	0.077
			-	00:00	0	0	0	0	0	0
			T	16:30	817	9/9/2025, 16:15	902	0.388	0.952	0.077
Weekend traffic:	Sat - Sun	2.999	+	12:30	667	9/6/2025, 13:30	735	0.286	0.934	0.083
			-	00:00	0	0	0	0	0	0
			T	12:30	667	9/6/2025, 13:30	735	0.286	0.934	0.083
Total traffic:		8.999	+	14:30	725	9/9/2025, 16:15	902	0.36	0.947	0.074
			-	00:00	0	0	0	0	0	0
			T	14:30	725	9/9/2025, 16:15	902	0.36	0.947	0.074

Legend to K-factors:
K(I) -factor: vehicles in period1+2 / ADT
K(J) -factor: vehicles in 16 hrs. period /ADT
K(200)-factor: vehicles in peak hour /ADT

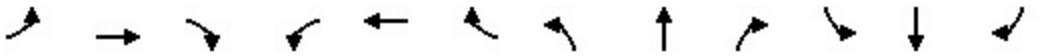
ATTACHMENT D

SYNCHRO LEVEL OF SERVICE REPORTS

PROPOSED SPORTS COMPLEX AND HOTEL
TOWN OF AMHERST
ERIE COUNTY, NY

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
1: Flint Road & Maple Road — Existing_PM

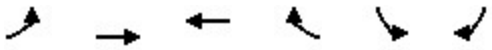


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	49	606	300	156	799	55	183	82	22	143	214	127
Future Volume (veh/h)	49	606	300	156	799	55	183	82	22	143	214	127
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	0.99		0.98	0.98		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1961	1885	1885	1870	1945	1604	1900	1900	1868	1856
Adj Flow Rate, veh/h	50	618	306	159	815	56	187	84	22	146	218	130
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	1	1	1	2	2	20	0	0	7	3
Cap, veh/h	291	1411	645	362	1468	101	286	308	81	472	247	147
Arrive On Green	0.03	0.39	0.39	0.07	0.43	0.43	0.10	0.25	0.25	0.08	0.23	0.23
Sat Flow, veh/h	1810	3610	1649	1795	3399	234	1853	1219	319	1810	1086	648
Grp Volume(v), veh/h	50	618	306	159	429	442	187	0	106	146	0	348
Grp Sat Flow(s),veh/h/ln	1810	1805	1649	1795	1791	1842	1853	0	1538	1810	0	1734
Q Serve(g_s), s	1.6	12.4	13.7	5.0	17.7	17.7	7.5	0.0	5.5	6.0	0.0	19.2
Cycle Q Clear(g_c), s	1.6	12.4	13.7	5.0	17.7	17.7	7.5	0.0	5.5	6.0	0.0	19.2
Prop In Lane	1.00		1.00	1.00		0.13	1.00		0.21	1.00		0.37
Lane Grp Cap(c), veh/h	291	1411	645	362	774	796	286	0	389	472	0	394
V/C Ratio(X)	0.17	0.44	0.47	0.44	0.56	0.56	0.65	0.00	0.27	0.31	0.00	0.88
Avail Cap(c_a), veh/h	438	1411	645	435	774	796	296	0	611	528	0	688
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	18.0	22.1	22.5	15.9	21.0	21.0	27.4	0.0	29.6	25.8	0.0	36.9
Incr Delay (d2), s/veh	0.3	1.0	2.5	0.8	2.9	2.8	4.9	0.0	0.4	0.4	0.0	6.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	5.1	5.6	1.9	7.4	7.6	3.6	0.0	2.0	2.6	0.0	8.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	18.3	23.1	25.0	16.8	23.8	23.7	32.3	0.0	30.0	26.1	0.0	43.8
LnGrp LOS	B	C	C	B	C	C	C		C	C		D
Approach Vol, veh/h		974			1030			293			494	
Approach Delay, s/veh		23.4			22.7			31.4			38.6	
Approach LOS		C			C			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	45.0	14.5	28.2	7.0	49.0	12.0	30.7
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	7.0	0.0	9.5	21.2	3.6	0.0	8.0	7.5
Green Ext Time (p_c), s	0.2	0.0	0.0	1.3	0.0	0.0	0.1	0.4

Intersection Summary	
HCM 7th Control Delay, s/veh	26.7
HCM 7th LOS	C

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



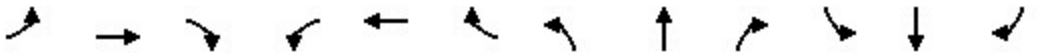
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	5	766	873	246	23	137
Future Volume (veh/h)	5	766	873	246	23	137
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1976	1900	1885	1961	1976	1961
Adj Flow Rate, veh/h	5	798	909	256	24	143
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	1	1	0	1
Cap, veh/h	411	2586	2566	1176	220	194
Arrive On Green	0.72	0.72	0.72	0.72	0.12	0.12
Sat Flow, veh/h	508	3705	3676	1642	1882	1662
Grp Volume(v), veh/h	5	798	909	256	24	143
Grp Sat Flow(s),veh/h/ln	508	1805	1791	1642	1882	1662
Q Serve(g_s), s	0.3	6.0	7.2	3.9	0.9	6.2
Cycle Q Clear(g_c), s	7.5	6.0	7.2	3.9	0.9	6.2
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	411	2586	2566	1176	220	194
V/C Ratio(X)	0.01	0.31	0.35	0.22	0.11	0.74
Avail Cap(c_a), veh/h	411	2586	2566	1176	472	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.91	0.91	0.85	0.85	1.00	1.00
Uniform Delay (d), s/veh	5.5	3.9	4.0	3.6	29.6	32.0
Incr Delay (d2), s/veh	0.0	0.3	0.3	0.4	0.3	7.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.3	1.5	0.8	0.4	2.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.5	4.2	4.4	3.9	29.9	39.5
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		803	1165		167	
Approach Delay, s/veh		4.2	4.3		38.1	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	60.0				60.0	15.0
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	8.2
Green Ext Time (p_c), s	0.0				0.0	0.8

Intersection Summary	
HCM 7th Control Delay, s/veh	6.9
HCM 7th LOS	A

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Existing_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	69	720	0	0	1067	28	52	0	568	0	0	0
Future Volume (veh/h)	69	720	0	0	1067	28	52	0	568	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1900	0	0	1885	1796	1870	1976	1900			
Adj Flow Rate, veh/h	72	750	0	0	1111	29	54	0	592			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	0	0	0	0	1	7	2	0	0			
Cap, veh/h	231	2014	0	0	1988	52	652	0	613			
Arrive On Green	0.56	0.56	0.00	0.00	0.56	0.56	0.37	0.00	0.37			
Sat Flow, veh/h	521	3705	0	0	3659	93	1781	0	1675			
Grp Volume(v), veh/h	72	750	0	0	558	582	54	0	592			
Grp Sat Flow(s),veh/h/ln	521	1805	0	0	1791	1867	1781	0	1675			
Q Serve(g_s), s	16.5	18.6	0.0	0.0	32.0	32.0	3.2	0.0	55.5			
Cycle Q Clear(g_c), s	48.5	18.6	0.0	0.0	32.0	32.0	3.2	0.0	55.5			
Prop In Lane	1.00		0.00	0.00		0.05	1.00		1.00			
Lane Grp Cap(c), veh/h	231	2014	0	0	999	1041	652	0	613			
V/C Ratio(X)	0.31	0.37	0.00	0.00	0.56	0.56	0.08	0.00	0.97			
Avail Cap(c_a), veh/h	231	2014	0	0	999	1041	710	0	668			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.96	0.96	0.00	0.00	0.83	0.83	1.00	0.00	1.00			
Uniform Delay (d), s/veh	38.3	19.7	0.0	0.0	22.7	22.7	33.2	0.0	49.7			
Incr Delay (d2), s/veh	3.3	0.5	0.0	0.0	1.9	1.8	0.0	0.0	25.0			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	2.3	7.8	0.0	0.0	13.6	14.1	1.4	0.0	27.4			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	41.6	20.3	0.0	0.0	24.6	24.5	33.2	0.0	74.8			
LnGrp LOS	D	C			C	C	C		E			
Approach Vol, veh/h		822			1140			646				
Approach Delay, s/veh		22.1			24.6			71.3				
Approach LOS		C			C			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	95.2	64.8	95.2
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	84.0	* 64	84.0
Max Q Clear Time (g_c+I1), s	50.5	57.5	0.0
Green Ext Time (p_c), s	0.1	1.1	0.0

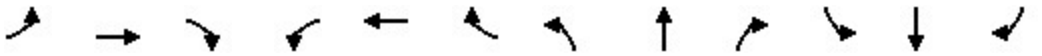
Intersection Summary	
HCM 7th Control Delay, s/veh	35.4
HCM 7th LOS	D

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
4: N Maplemere Rd & Maple Road — Existing_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	25	1241	22	15	1028	45	19	13	13	113	14	48
Future Volume (veh/h)	25	1241	22	15	1028	45	19	13	13	113	14	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1900	1900	1976	1885	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	26	1293	23	16	1071	47	20	14	14	118	15	50
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	1	0	0	0	0	0	0	0
Cap, veh/h	424	2275	40	337	2111	93	135	91	61	349	48	158
Arrive On Green	0.05	0.63	0.63	0.02	0.60	0.60	0.12	0.12	0.12	0.00	0.12	0.12
Sat Flow, veh/h	1882	3629	65	1882	3495	153	469	733	495	1810	384	1281
Grp Volume(v), veh/h	26	643	673	16	549	569	48	0	0	118	0	65
Grp Sat Flow(s),veh/h/ln	1882	1805	1888	1882	1791	1858	1697	0	0	1810	0	1666
Q Serve(g_s), s	0.3	13.7	13.7	0.2	11.6	11.6	0.0	0.0	0.0	0.1	0.0	2.4
Cycle Q Clear(g_c), s	0.3	13.7	13.7	0.2	11.6	11.6	1.5	0.0	0.0	0.1	0.0	2.4
Prop In Lane	1.00		0.03	1.00		0.08	0.42		0.29	1.00		0.77
Lane Grp Cap(c), veh/h	424	1131	1184	337	1082	1122	287	0	0	349	0	206
V/C Ratio(X)	0.06	0.57	0.57	0.05	0.51	0.51	0.17	0.00	0.00	0.34	0.00	0.32
Avail Cap(c_a), veh/h	621	1131	1184	578	1082	1122	1064	0	0	619	0	1383
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.2	7.2	7.2	5.8	7.5	7.5	26.1	0.0	0.0	25.3	0.0	26.5
Incr Delay (d2), s/veh	0.1	2.1	2.0	0.1	1.7	1.6	0.3	0.0	0.0	0.6	0.0	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	4.0	4.1	0.1	3.5	3.6	0.7	0.0	0.0	1.6	0.0	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	5.2	9.2	9.2	5.9	9.2	9.1	26.4	0.0	0.0	25.9	0.0	27.3
LnGrp LOS	A	A	A	A	A	A	C			C		C
Approach Vol, veh/h		1342			1134			48			183	
Approach Delay, s/veh		9.1			9.1			26.4			26.4	
Approach LOS		A			A			C			C	

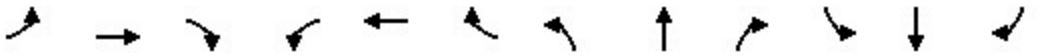
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.5	46.5		13.2	8.0	45.0	0.0	13.2				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	15.7		4.4	2.3	13.6	0.0	3.5				
Green Ext Time (p_c), s	0.0	5.5		0.2	0.0	4.5	0.0	0.1				

Intersection Summary												
HCM 7th Control Delay, s/veh			10.6									
HCM 7th LOS			B									

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
Existing_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	160	1066	135	189	883	168	109	371	232	187	310	96
Future Volume (veh/h)	160	1066	135	189	883	168	109	371	232	187	310	96
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1870	1900	1900	1885	1900	1885	1900	1900	1885	1885
Adj Flow Rate, veh/h	163	1088	138	193	901	171	111	379	237	191	316	98
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	2	0	0	1	0	1	0	0	1	1
Cap, veh/h	305	1367	596	275	1404	617	305	441	377	280	504	427
Arrive On Green	0.07	0.38	0.38	0.08	0.39	0.39	0.06	0.23	0.23	0.10	0.27	0.27
Sat Flow, veh/h	1810	3610	1575	1810	3610	1587	1810	1885	1610	1810	1885	1598
Grp Volume(v), veh/h	163	1088	138	193	901	171	111	379	237	191	316	98
Grp Sat Flow(s),veh/h/ln	1810	1805	1575	1810	1805	1587	1810	1885	1610	1810	1885	1598
Q Serve(g_s), s	5.5	27.3	6.1	6.5	20.7	7.5	4.7	19.6	13.4	7.9	15.0	4.9
Cycle Q Clear(g_c), s	5.5	27.3	6.1	6.5	20.7	7.5	4.7	19.6	13.4	7.9	15.0	4.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	305	1367	596	275	1404	617	305	441	377	280	504	427
V/C Ratio(X)	0.53	0.80	0.23	0.70	0.64	0.28	0.36	0.86	0.63	0.68	0.63	0.23
Avail Cap(c_a), veh/h	366	1367	596	318	1404	617	385	716	611	300	716	606
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.4	28.1	21.5	22.2	25.3	21.3	27.5	37.3	35.0	27.1	32.8	29.1
Incr Delay (d2), s/veh	1.5	4.9	0.9	5.7	2.3	1.1	0.7	6.0	1.7	5.7	1.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	11.8	2.3	2.9	8.7	2.9	2.0	9.5	5.3	3.7	6.9	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	20.9	33.0	22.4	27.9	27.6	22.4	28.2	43.3	36.7	32.8	34.1	29.3
LnGrp LOS	C	C	C	C	C	C	C	D	D	C	C	C
Approach Vol, veh/h		1389			1265			727			605	
Approach Delay, s/veh		30.5			26.9			38.9			32.9	
Approach LOS		C			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.6	45.0	10.5	33.6	11.6	46.0	13.9	30.2
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	8.5	0.0	6.7	17.0	7.5	0.0	9.9	21.6
Green Ext Time (p_c), s	0.1	0.0	0.1	1.4	0.1	0.0	0.1	2.2

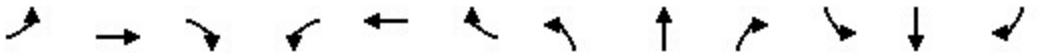
Intersection Summary	
HCM 7th Control Delay, s/veh	31.3
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — Existing_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	121	789	32	41	607	43	65	30	50	126	58	311
Future Volume (veh/h)	121	789	32	41	607	43	65	30	50	126	58	311
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.96	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1976	1870	1826	1900	1900	1900	1885	1976	1976
Adj Flow Rate, veh/h	127	831	34	43	639	45	68	32	53	133	61	327
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	1	0	0	2	5	0	0	0	1	0	0
Cap, veh/h	151	1899	78	57	1645	116	122	58	152	230	106	288
Arrive On Green	0.08	0.54	0.54	0.03	0.49	0.49	0.10	0.10	0.10	0.18	0.18	0.18
Sat Flow, veh/h	1810	3507	143	1882	3368	237	1250	588	1546	1310	601	1637
Grp Volume(v), veh/h	127	424	441	43	337	347	100	0	53	194	0	327
Grp Sat Flow(s),veh/h/ln	1810	1791	1859	1882	1777	1828	1838	0	1546	1911	0	1637
Q Serve(g_s), s	12.8	26.3	26.3	4.2	22.1	22.2	9.6	0.0	5.9	17.2	0.0	32.5
Cycle Q Clear(g_c), s	12.8	26.3	26.3	4.2	22.1	22.2	9.6	0.0	5.9	17.2	0.0	32.5
Prop In Lane	1.00		0.08	1.00		0.13	0.68		1.00	0.69		1.00
Lane Grp Cap(c), veh/h	151	970	1007	57	868	893	180	0	152	336	0	288
V/C Ratio(X)	0.84	0.44	0.44	0.76	0.39	0.39	0.56	0.00	0.35	0.58	0.00	1.14
Avail Cap(c_a), veh/h	423	970	1007	185	868	893	323	0	272	336	0	288
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	83.6	25.5	25.5	89.1	29.9	29.9	79.6	0.0	77.9	70.0	0.0	76.3
Incr Delay (d2), s/veh	16.2	1.4	1.4	18.6	1.3	1.3	3.8	0.0	2.0	2.5	0.0	95.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.6	11.5	11.9	2.3	9.8	10.1	4.8	0.0	2.5	8.7	0.0	21.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	99.8	26.9	26.9	107.6	31.2	31.1	83.4	0.0	79.9	72.4	0.0	171.4
LnGrp LOS	F	C	C	F	C	C	F		E	E		F
Approach Vol, veh/h		992			727			153			521	
Approach Delay, s/veh		36.2			35.7			82.2			134.6	
Approach LOS		D			D			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	22.2	97.2		25.6	12.4	107.0		40.0				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	14.8	0.0		11.6	6.2	0.0		34.5				
Green Ext Time (p_c), s	0.6	0.0		0.7	0.1	0.0		0.0				

Intersection Summary	
HCM 7th Control Delay, s/veh	60.4
HCM 7th LOS	E

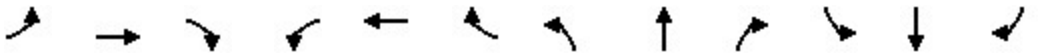
Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	552	190	125	663	18	144	22	24	25	33	42
Future Volume (veh/h)	22	552	190	125	663	18	144	22	24	25	33	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	0.98		0.98	0.97		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1885	1945	1885	1900	1900	1961	1693	1900	1841	1837	1870
Adj Flow Rate, veh/h	25	627	216	142	753	20	164	25	27	28	38	48
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	5	1	2	1	0	0	1	14	0	4	9	2
Cap, veh/h	375	1651	756	427	1806	48	371	156	168	291	92	116
Arrive On Green	0.02	0.46	0.46	0.06	0.50	0.50	0.10	0.21	0.21	0.02	0.13	0.13
Sat Flow, veh/h	1739	3582	1640	1795	3592	95	1867	736	795	1753	723	913
Grp Volume(v), veh/h	25	627	216	142	378	395	164	0	52	28	0	86
Grp Sat Flow(s),veh/h/ln	1739	1791	1640	1795	1805	1882	1867	0	1531	1753	0	1636
Q Serve(g_s), s	0.6	9.6	6.8	3.3	11.0	11.0	6.1	0.0	2.3	1.2	0.0	4.1
Cycle Q Clear(g_c), s	0.6	9.6	6.8	3.3	11.0	11.0	6.1	0.0	2.3	1.2	0.0	4.1
Prop In Lane	1.00		1.00	1.00		0.05	1.00		0.52	1.00		0.56
Lane Grp Cap(c), veh/h	375	1651	756	427	908	947	371	0	324	291	0	209
V/C Ratio(X)	0.07	0.38	0.29	0.33	0.42	0.42	0.44	0.00	0.16	0.10	0.00	0.41
Avail Cap(c_a), veh/h	567	1651	756	550	908	947	416	0	717	481	0	766
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	11.7	14.7	14.0	10.5	13.1	13.1	26.3	0.0	26.9	30.7	0.0	33.6
Incr Delay (d2), s/veh	0.1	0.7	1.0	0.5	1.4	1.4	0.8	0.0	0.2	0.1	0.0	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	3.6	0.2	1.1	4.2	4.3	2.7	0.0	0.9	0.5	0.0	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.8	15.4	15.0	10.9	14.5	14.4	27.1	0.0	27.1	30.9	0.0	34.9
LnGrp LOS	B	B	B	B	B	B	C		C	C		C
Approach Vol, veh/h		868			915			216			114	
Approach Delay, s/veh		15.2			13.9			27.1			33.9	
Approach LOS		B			B			C			C	

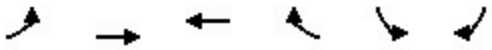
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.3	45.0	13.0	16.5	5.8	48.5	5.9	23.5
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	5.3	0.0	8.1	6.1	2.6	0.0	3.2	4.3
Green Ext Time (p_c), s	0.2	0.0	0.1	0.3	0.0	0.0	0.0	0.2

Intersection Summary	
HCM 7th Control Delay, s/veh	16.9
HCM 7th LOS	B

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
Existing_SAT



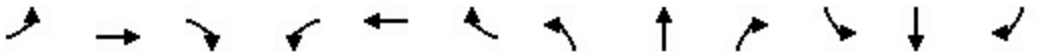
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	11	590	701	176	7	105
Future Volume (veh/h)	11	590	701	176	7	105
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1699	1885	1885	1961	1976	1976
Adj Flow Rate, veh/h	12	670	797	200	8	119
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	18	1	1	1	0	0
Cap, veh/h	435	2639	2639	1215	182	162
Arrive On Green	0.74	0.74	0.74	0.74	0.10	0.10
Sat Flow, veh/h	512	3676	3676	1649	1882	1675
Grp Volume(v), veh/h	12	670	797	200	8	119
Grp Sat Flow(s),veh/h/ln	512	1791	1791	1649	1882	1675
Q Serve(g_s), s	0.6	4.5	5.6	2.7	0.3	5.2
Cycle Q Clear(g_c), s	6.3	4.5	5.6	2.7	0.3	5.2
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	435	2639	2639	1215	182	162
V/C Ratio(X)	0.03	0.25	0.30	0.16	0.04	0.74
Avail Cap(c_a), veh/h	435	2639	2639	1215	472	420
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.94	0.94	0.96	0.96	1.00	1.00
Uniform Delay (d), s/veh	4.4	3.2	3.3	3.0	30.7	33.0
Incr Delay (d2), s/veh	0.1	0.2	0.3	0.3	0.1	8.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.9	1.1	0.5	0.1	2.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.5	3.4	3.6	3.2	30.9	41.9
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		682	997		127	
Approach Delay, s/veh		3.4	3.5		41.2	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	61.6				61.6	13.4
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	7.2
Green Ext Time (p_c), s	0.0				0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	6.1
HCM 7th LOS	A

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	80	517	0	0	830	16	47	1	326	0	0	0
Future Volume (veh/h)	80	517	0	0	830	16	47	1	326	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1885	0	0	1900	1900	1811	1976	1870			
Adj Flow Rate, veh/h	89	574	0	0	922	18	52	1	362			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90			
Percent Heavy Veh, %	0	1	0	0	0	0	6	0	2			
Cap, veh/h	410	2434	0	0	2461	48	402	1	390			
Arrive On Green	0.68	0.68	0.00	0.00	0.68	0.68	0.23	0.23	0.23			
Sat Flow, veh/h	629	3676	0	0	3716	71	1725	5	1671			
Grp Volume(v), veh/h	89	574	0	0	460	480	52	0	363			
Grp Sat Flow(s),veh/h/ln	629	1791	0	0	1805	1887	1725	0	1675			
Q Serve(g_s), s	9.9	8.6	0.0	0.0	15.3	15.3	3.3	0.0	29.7			
Cycle Q Clear(g_c), s	25.2	8.6	0.0	0.0	15.3	15.3	3.3	0.0	29.7			
Prop In Lane	1.00		0.00	0.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	410	2434	0	0	1227	1282	402	0	391			
V/C Ratio(X)	0.22	0.24	0.00	0.00	0.37	0.37	0.13	0.00	0.93			
Avail Cap(c_a), veh/h	410	2434	0	0	1227	1282	663	0	644			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.98	0.98	0.00	0.00	0.86	0.86	1.00	0.00	1.00			
Uniform Delay (d), s/veh	15.1	8.6	0.0	0.0	9.6	9.6	42.4	0.0	52.5			
Incr Delay (d2), s/veh	1.2	0.2	0.0	0.0	0.8	0.7	0.1	0.0	9.2			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.5	3.1	0.0	0.0	5.7	6.0	1.5	0.0	13.5			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	16.2	8.8	0.0	0.0	10.4	10.4	42.5	0.0	61.8			
LnGrp LOS	B	A			B	B	D		E			
Approach Vol, veh/h		663			940			415				
Approach Delay, s/veh		9.8			10.4			59.4				
Approach LOS		A			B			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	101.1	38.9	101.1
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	74.0	* 54	74.0
Max Q Clear Time (g_c+I1), s	27.2	31.7	0.0
Green Ext Time (p_c), s	0.1	1.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	20.3
HCM 7th LOS	C

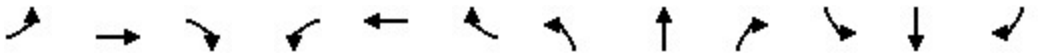
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	88	729	26	9	736	90	13	10	12	129	9	97
Future Volume (veh/h)	88	729	26	9	736	90	13	10	12	129	9	97
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1885	1900	1976	1900	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	100	828	30	10	836	102	15	11	14	147	10	110
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	0	1	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	545	2281	83	496	1829	223	103	74	58	299	17	187
Arrive On Green	0.10	0.65	0.65	0.02	0.56	0.56	0.13	0.13	0.13	0.00	0.13	0.13
Sat Flow, veh/h	1882	3525	128	1882	3237	395	265	589	460	1810	135	1485
Grp Volume(v), veh/h	100	421	437	10	466	472	40	0	0	147	0	120
Grp Sat Flow(s),veh/h/ln	1882	1791	1862	1882	1805	1827	1314	0	0	1810	0	1620
Q Serve(g_s), s	1.2	7.7	7.7	0.2	10.7	10.7	0.1	0.0	0.0	0.1	0.0	5.0
Cycle Q Clear(g_c), s	1.2	7.7	7.7	0.2	10.7	10.7	5.0	0.0	0.0	0.1	0.0	5.0
Prop In Lane	1.00		0.07	1.00		0.22	0.37		0.35	1.00		0.92
Lane Grp Cap(c), veh/h	545	1159	1205	496	1020	1032	235	0	0	299	0	204
V/C Ratio(X)	0.18	0.36	0.36	0.02	0.46	0.46	0.17	0.00	0.00	0.49	0.00	0.59
Avail Cap(c_a), veh/h	628	1159	1205	733	1020	1032	932	0	0	552	0	1259
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	4.9	5.8	5.8	6.3	9.0	9.0	27.7	0.0	0.0	28.8	0.0	29.2
Incr Delay (d2), s/veh	0.2	0.9	0.8	0.0	1.5	1.5	0.3	0.0	0.0	1.3	0.0	2.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.1	2.2	0.0	3.6	3.6	0.6	0.0	0.0	2.4	0.0	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	5.1	6.6	6.6	6.3	10.5	10.5	28.0	0.0	0.0	30.0	0.0	31.9
LnGrp LOS	A	A	A	A	B	B	C			C		C
Approach Vol, veh/h		958			948			40			267	
Approach Delay, s/veh		6.5			10.5			28.0			30.9	
Approach LOS		A			B			C			C	

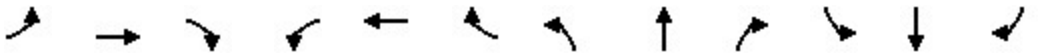
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.1	50.8		13.9	11.9	45.0	0.0	13.9				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	9.7		7.0	3.2	12.7	0.0	7.0				
Green Ext Time (p_c), s	0.0	3.2		0.5	0.1	3.6	0.0	0.1				

Intersection Summary												
HCM 7th Control Delay, s/veh			11.5									
HCM 7th LOS			B									

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	119	666	85	140	671	90	74	176	135	104	206	90
Future Volume (veh/h)	119	666	85	140	671	90	74	176	135	104	206	90
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1885	1900	1900	1900	1900	1885	1900	1900	1885
Adj Flow Rate, veh/h	127	709	90	149	714	96	79	187	144	111	219	96
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	1	0	1	0	0	0	0	1	0	0	1
Cap, veh/h	430	1674	751	437	1715	763	237	269	225	267	305	255
Arrive On Green	0.06	0.47	0.47	0.07	0.48	0.48	0.05	0.14	0.14	0.07	0.16	0.16
Sat Flow, veh/h	1810	3582	1607	1795	3610	1607	1810	1900	1587	1810	1900	1589
Grp Volume(v), veh/h	127	709	90	149	714	96	79	187	144	111	219	96
Grp Sat Flow(s),veh/h/ln	1810	1791	1607	1795	1805	1607	1810	1900	1587	1810	1900	1589
Q Serve(g_s), s	2.9	10.8	2.6	3.5	10.7	2.7	3.0	7.7	7.1	4.2	9.0	4.4
Cycle Q Clear(g_c), s	2.9	10.8	2.6	3.5	10.7	2.7	3.0	7.7	7.1	4.2	9.0	4.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	430	1674	751	437	1715	763	237	269	225	267	305	255
V/C Ratio(X)	0.30	0.42	0.12	0.34	0.42	0.13	0.33	0.69	0.64	0.42	0.72	0.38
Avail Cap(c_a), veh/h	565	1674	751	557	1715	763	384	890	744	380	890	744
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.7	14.6	12.4	10.7	14.1	12.1	28.4	33.7	33.4	27.6	32.8	30.9
Incr Delay (d2), s/veh	0.4	0.8	0.3	0.5	0.7	0.3	0.8	3.2	3.0	1.0	3.1	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	4.0	0.9	1.2	3.9	1.0	1.3	3.7	2.8	1.8	4.3	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.1	15.4	12.7	11.1	14.9	12.4	29.2	36.9	36.4	28.6	35.9	31.8
LnGrp LOS	B	B	B	B	B	B	C	D	D	C	D	C
Approach Vol, veh/h		926			959			410			426	
Approach Delay, s/veh		14.5			14.1			35.2			33.1	
Approach LOS		B			B			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.5	45.0	8.3	19.6	8.8	45.6	9.9	18.1
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	5.5	0.0	5.0	11.0	4.9	0.0	6.2	9.7
Green Ext Time (p_c), s	0.2	0.0	0.1	1.1	0.2	0.0	0.1	1.2

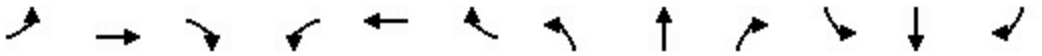
Intersection Summary	
HCM 7th Control Delay, s/veh	20.4
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — Existing_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	490	52	54	469	11	44	10	56	16	15	52
Future Volume (veh/h)	41	490	52	54	469	11	44	10	56	16	15	52
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.96	1.00		0.94
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1976	1885	1767	1900	1900	1900	1900	1976	1976
Adj Flow Rate, veh/h	43	516	55	57	494	12	46	11	59	17	16	55
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	1	0	0	1	9	0	0	0	0	0	0
Cap, veh/h	57	2234	237	73	2470	60	113	27	119	46	43	73
Arrive On Green	0.03	0.68	0.68	0.04	0.69	0.69	0.08	0.08	0.08	0.05	0.05	0.05
Sat Flow, veh/h	1781	3267	347	1882	3574	87	1474	352	1553	992	934	1577
Grp Volume(v), veh/h	43	282	289	57	247	259	57	0	59	33	0	55
Grp Sat Flow(s),veh/h/ln	1781	1791	1823	1882	1791	1870	1826	0	1553	1926	0	1577
Q Serve(g_s), s	4.4	10.9	11.0	5.6	9.2	9.2	5.5	0.0	6.7	3.1	0.0	6.4
Cycle Q Clear(g_c), s	4.4	10.9	11.0	5.6	9.2	9.2	5.5	0.0	6.7	3.1	0.0	6.4
Prop In Lane	1.00		0.19	1.00		0.05	0.81		1.00	0.52		1.00
Lane Grp Cap(c), veh/h	57	1225	1246	73	1238	1292	139	0	119	89	0	73
V/C Ratio(X)	0.76	0.23	0.23	0.78	0.20	0.20	0.41	0.00	0.50	0.37	0.00	0.75
Avail Cap(c_a), veh/h	416	1225	1246	185	1238	1292	321	0	273	338	0	277
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	88.9	11.0	11.0	88.1	10.2	10.2	81.5	0.0	82.0	85.6	0.0	87.2
Incr Delay (d2), s/veh	25.1	0.4	0.4	15.9	0.4	0.3	2.7	0.0	4.5	2.5	0.0	14.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	4.4	4.5	3.0	3.7	3.8	2.7	0.0	2.9	1.6	0.0	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	114.0	11.4	11.4	104.0	10.6	10.6	84.2	0.0	86.6	88.2	0.0	101.7
LnGrp LOS	F	B	B	F	B	B	F		F	F		F
Approach Vol, veh/h		614			563			116			88	
Approach Delay, s/veh		18.6			20.1			85.4			96.6	
Approach LOS		B			C			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.7	134.6		21.6	14.0	133.3		16.1				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	6.4	0.0		8.7	7.6	0.0		8.4				
Green Ext Time (p_c), s	0.2	0.0		0.5	0.1	0.0		0.3				

Intersection Summary	
HCM 7th Control Delay, s/veh	29.8
HCM 7th LOS	C

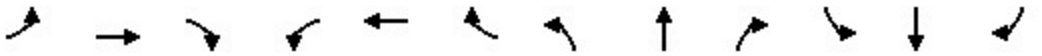
Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	633	314	163	835	58	191	86	23	150	224	133
Future Volume (veh/h)	51	633	314	163	835	58	191	86	23	150	224	133
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	0.98		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1961	1885	1885	1870	1945	1604	1900	1900	1868	1856
Adj Flow Rate, veh/h	52	646	320	166	852	59	195	88	23	153	229	136
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	1	1	1	2	2	20	0	0	7	3
Cap, veh/h	271	1379	630	349	1446	100	287	319	83	482	257	153
Arrive On Green	0.03	0.38	0.38	0.07	0.43	0.43	0.10	0.26	0.26	0.08	0.24	0.24
Sat Flow, veh/h	1810	3610	1648	1795	3397	235	1853	1220	319	1810	1088	646
Grp Volume(v), veh/h	52	646	320	166	449	462	195	0	111	153	0	365
Grp Sat Flow(s),veh/h/ln	1810	1805	1648	1795	1791	1842	1853	0	1539	1810	0	1735
Q Serve(g_s), s	1.8	13.6	15.0	5.4	19.4	19.4	7.9	0.0	5.8	6.4	0.0	20.6
Cycle Q Clear(g_c), s	1.8	13.6	15.0	5.4	19.4	19.4	7.9	0.0	5.8	6.4	0.0	20.6
Prop In Lane	1.00		1.00	1.00		0.13	1.00		0.21	1.00		0.37
Lane Grp Cap(c), veh/h	271	1379	630	349	762	784	287	0	402	482	0	410
V/C Ratio(X)	0.19	0.47	0.51	0.48	0.59	0.59	0.68	0.00	0.28	0.32	0.00	0.89
Avail Cap(c_a), veh/h	414	1379	630	412	762	784	289	0	597	529	0	673
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	19.2	23.5	23.9	17.0	22.2	22.2	27.6	0.0	29.7	25.7	0.0	37.3
Incr Delay (d2), s/veh	0.3	1.1	2.9	1.0	3.3	3.2	6.2	0.0	0.4	0.4	0.0	8.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	5.6	6.2	2.1	8.2	8.4	3.9	0.0	2.2	2.8	0.0	9.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	19.5	24.6	26.8	18.0	25.6	25.5	33.8	0.0	30.1	26.0	0.0	45.9
LnGrp LOS	B	C	C	B	C	C	C		C	C		D
Approach Vol, veh/h		1018			1077			306			518	
Approach Delay, s/veh		25.1			24.4			32.5			40.0	
Approach LOS		C			C			C			D	

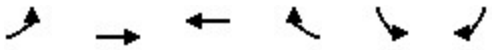
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	45.0	14.9	29.7	7.1	49.4	12.4	32.2
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	7.4	0.0	9.9	22.6	3.8	0.0	8.4	7.8
Green Ext Time (p_c), s	0.2	0.0	0.0	1.3	0.0	0.0	0.1	0.4

Intersection Summary	
HCM 7th Control Delay, s/veh	28.2
HCM 7th LOS	C

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
No-Build_PM



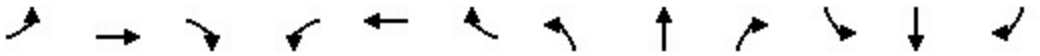
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	5	801	913	257	24	143
Future Volume (veh/h)	5	801	913	257	24	143
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1976	1900	1885	1961	1976	1961
Adj Flow Rate, veh/h	5	834	951	268	25	149
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	1	1	0	1
Cap, veh/h	390	2571	2551	1169	228	201
Arrive On Green	0.71	0.71	0.71	0.71	0.12	0.12
Sat Flow, veh/h	483	3705	3676	1642	1882	1662
Grp Volume(v), veh/h	5	834	951	268	25	149
Grp Sat Flow(s),veh/h/ln	483	1805	1791	1642	1882	1662
Q Serve(g_s), s	0.3	6.5	7.8	4.2	0.9	6.5
Cycle Q Clear(g_c), s	8.1	6.5	7.8	4.2	0.9	6.5
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	390	2571	2551	1169	228	201
V/C Ratio(X)	0.01	0.32	0.37	0.23	0.11	0.74
Avail Cap(c_a), veh/h	390	2571	2551	1169	472	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.89	0.89	0.82	0.82	1.00	1.00
Uniform Delay (d), s/veh	5.8	4.0	4.2	3.7	29.4	31.8
Incr Delay (d2), s/veh	0.1	0.3	0.3	0.4	0.3	7.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.4	1.7	0.9	0.4	2.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.9	4.3	4.6	4.1	29.7	39.2
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		839	1219		174	
Approach Delay, s/veh		4.3	4.5		37.8	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	59.7				59.7	15.3
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	8.5
Green Ext Time (p_c), s	0.0				0.0	0.8

Intersection Summary	
HCM 7th Control Delay, s/veh	7.0
HCM 7th LOS	A

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	72	753	0	0	1116	29	54	0	594	0	0	0
Future Volume (veh/h)	72	753	0	0	1116	29	54	0	594	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1900	0	0	1885	1796	1870	1976	1900			
Adj Flow Rate, veh/h	75	784	0	0	1162	30	56	0	619			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	0	0	0	0	1	7	2	0	0			
Cap, veh/h	205	1961	0	0	1937	50	678	0	637			
Arrive On Green	0.54	0.54	0.00	0.00	0.54	0.54	0.38	0.00	0.38			
Sat Flow, veh/h	496	3705	0	0	3660	92	1781	0	1675			
Grp Volume(v), veh/h	75	784	0	0	583	609	56	0	619			
Grp Sat Flow(s),veh/h/ln	496	1805	0	0	1791	1867	1781	0	1675			
Q Serve(g_s), s	19.3	20.3	0.0	0.0	35.3	35.3	3.2	0.0	58.1			
Cycle Q Clear(g_c), s	54.7	20.3	0.0	0.0	35.3	35.3	3.2	0.0	58.1			
Prop In Lane	1.00		0.00	0.00		0.05	1.00		1.00			
Lane Grp Cap(c), veh/h	205	1961	0	0	973	1014	678	0	637			
V/C Ratio(X)	0.37	0.40	0.00	0.00	0.60	0.60	0.08	0.00	0.97			
Avail Cap(c_a), veh/h	205	1961	0	0	973	1014	710	0	668			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.96	0.96	0.00	0.00	0.80	0.80	1.00	0.00	1.00			
Uniform Delay (d), s/veh	43.3	21.3	0.0	0.0	24.8	24.8	31.7	0.0	48.7			
Incr Delay (d2), s/veh	4.8	0.6	0.0	0.0	2.2	2.1	0.0	0.0	26.8			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	2.6	8.6	0.0	0.0	15.1	15.7	1.4	0.0	28.9			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	48.1	21.9	0.0	0.0	27.0	26.9	31.7	0.0	75.5			
LnGrp LOS	D	C			C	C	C		E			
Approach Vol, veh/h		859			1192			675				
Approach Delay, s/veh		24.2			26.9			71.9				
Approach LOS		C			C			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	92.9	67.1	92.9
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	84.0	* 64	84.0
Max Q Clear Time (g_c+I1), s	56.7	60.1	0.0
Green Ext Time (p_c), s	0.1	0.8	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	37.2
HCM 7th LOS	D

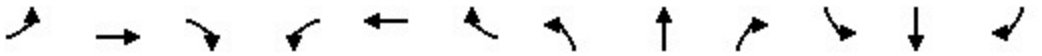
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	26	1298	23	16	1075	47	20	14	14	118	15	50
Future Volume (veh/h)	26	1298	23	16	1075	47	20	14	14	118	15	50
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1900	1900	1976	1885	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	27	1352	24	17	1120	49	21	15	15	123	16	52
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	1	0	0	0	0	0	0	0
Cap, veh/h	408	2271	40	322	2108	92	134	91	62	349	49	158
Arrive On Green	0.05	0.63	0.63	0.02	0.60	0.60	0.12	0.12	0.12	0.00	0.12	0.12
Sat Flow, veh/h	1882	3629	64	1882	3496	153	461	738	499	1810	392	1275
Grp Volume(v), veh/h	27	672	704	17	574	595	51	0	0	123	0	68
Grp Sat Flow(s),veh/h/ln	1882	1805	1888	1882	1791	1858	1698	0	0	1810	0	1667
Q Serve(g_s), s	0.3	14.7	14.7	0.2	12.4	12.4	0.0	0.0	0.0	0.1	0.0	2.5
Cycle Q Clear(g_c), s	0.3	14.7	14.7	0.2	12.4	12.4	1.6	0.0	0.0	0.1	0.0	2.5
Prop In Lane	1.00		0.03	1.00		0.08	0.41		0.29	1.00		0.76
Lane Grp Cap(c), veh/h	408	1130	1182	322	1080	1120	287	0	0	349	0	206
V/C Ratio(X)	0.07	0.59	0.60	0.05	0.53	0.53	0.18	0.00	0.00	0.35	0.00	0.33
Avail Cap(c_a), veh/h	603	1130	1182	560	1080	1120	1062	0	0	619	0	1382
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.3	7.4	7.4	6.0	7.7	7.7	26.2	0.0	0.0	25.4	0.0	26.6
Incr Delay (d2), s/veh	0.1	2.3	2.2	0.1	1.9	1.8	0.3	0.0	0.0	0.6	0.0	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	4.3	4.5	0.1	3.7	3.9	0.7	0.0	0.0	1.7	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	5.4	9.7	9.6	6.1	9.6	9.5	26.5	0.0	0.0	26.0	0.0	27.5
LnGrp LOS	A	A	A	A	A	A	C			C		C
Approach Vol, veh/h		1403			1186			51			191	
Approach Delay, s/veh		9.6			9.5			26.5			26.6	
Approach LOS		A			A			C			C	

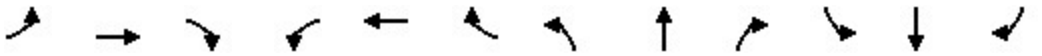
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.6	46.5		13.2	8.1	45.0	0.0	13.2				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	16.7		4.5	2.3	14.4	0.0	3.6				
Green Ext Time (p_c), s	0.0	5.9		0.2	0.0	4.7	0.0	0.2				

Intersection Summary												
HCM 7th Control Delay, s/veh			11.0									
HCM 7th LOS			B									

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	167	1115	141	198	923	176	114	388	243	196	324	100
Future Volume (veh/h)	167	1115	141	198	923	176	114	388	243	196	324	100
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1870	1900	1900	1885	1900	1885	1900	1900	1885	1885
Adj Flow Rate, veh/h	170	1138	144	202	942	180	116	396	248	200	331	102
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	2	0	0	1	0	1	0	0	1	1
Cap, veh/h	291	1334	582	263	1374	604	306	457	390	281	521	441
Arrive On Green	0.08	0.37	0.37	0.09	0.38	0.38	0.07	0.24	0.24	0.10	0.28	0.28
Sat Flow, veh/h	1810	3610	1574	1810	3610	1587	1810	1885	1610	1810	1885	1598
Grp Volume(v), veh/h	170	1138	144	202	942	180	116	396	248	200	331	102
Grp Sat Flow(s),veh/h/ln	1810	1805	1574	1810	1805	1587	1810	1885	1610	1810	1885	1598
Q Serve(g_s), s	6.0	30.2	6.6	7.1	22.8	8.3	4.9	21.0	14.4	8.3	16.1	5.1
Cycle Q Clear(g_c), s	6.0	30.2	6.6	7.1	22.8	8.3	4.9	21.0	14.4	8.3	16.1	5.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	291	1334	582	263	1374	604	306	457	390	281	521	441
V/C Ratio(X)	0.58	0.85	0.25	0.77	0.69	0.30	0.38	0.87	0.64	0.71	0.64	0.23
Avail Cap(c_a), veh/h	343	1334	582	295	1374	604	379	699	597	293	699	592
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.0	30.2	22.8	23.6	27.0	22.5	27.5	37.9	35.3	27.4	33.1	29.1
Incr Delay (d2), s/veh	1.8	7.1	1.0	10.3	2.8	1.3	0.8	7.3	1.7	7.5	1.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	13.5	2.6	3.5	9.7	3.2	2.2	10.4	5.7	4.1	7.3	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	22.8	37.3	23.8	34.0	29.9	23.8	28.3	45.2	37.1	34.8	34.4	29.4
LnGrp LOS	C	D	C	C	C	C	C	D	D	C	C	C
Approach Vol, veh/h		1452			1324			760			633	
Approach Delay, s/veh		34.3			29.7			40.0			33.7	
Approach LOS		C			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	45.0	10.8	35.2	12.1	46.1	14.3	31.6
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	9.1	0.0	6.9	18.1	8.0	0.0	10.3	23.0
Green Ext Time (p_c), s	0.1	0.0	0.1	1.5	0.1	0.0	0.0	2.3

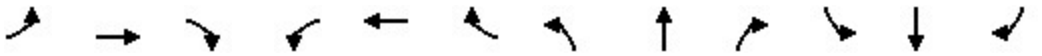
Intersection Summary	
HCM 7th Control Delay, s/veh	33.8
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — No-Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	127	825	33	43	635	45	68	31	52	132	61	325
Future Volume (veh/h)	127	825	33	43	635	45	68	31	52	132	61	325
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.96	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1976	1870	1826	1900	1900	1900	1885	1976	1976
Adj Flow Rate, veh/h	134	868	35	45	668	47	72	33	55	139	64	342
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	1	0	0	2	5	0	0	0	1	0	0
Cap, veh/h	158	1889	76	59	1625	114	126	58	155	230	106	288
Arrive On Green	0.09	0.54	0.54	0.03	0.48	0.48	0.10	0.10	0.10	0.18	0.18	0.18
Sat Flow, veh/h	1810	3509	141	1882	3368	237	1260	577	1547	1308	602	1637
Grp Volume(v), veh/h	134	443	460	45	352	363	105	0	55	203	0	342
Grp Sat Flow(s),veh/h/ln	1810	1791	1860	1882	1777	1828	1837	0	1547	1911	0	1637
Q Serve(g_s), s	13.5	28.1	28.1	4.4	23.7	23.7	10.1	0.0	6.1	18.1	0.0	32.5
Cycle Q Clear(g_c), s	13.5	28.1	28.1	4.4	23.7	23.7	10.1	0.0	6.1	18.1	0.0	32.5
Prop In Lane	1.00		0.08	1.00		0.13	0.69		1.00	0.68		1.00
Lane Grp Cap(c), veh/h	158	964	1001	59	857	882	184	0	155	336	0	288
V/C Ratio(X)	0.85	0.46	0.46	0.76	0.41	0.41	0.57	0.00	0.36	0.60	0.00	1.19
Avail Cap(c_a), veh/h	423	964	1001	185	857	882	323	0	272	336	0	288
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	83.2	26.2	26.2	88.9	30.9	30.9	79.5	0.0	77.7	70.3	0.0	76.3
Incr Delay (d2), s/veh	16.0	1.6	1.5	18.0	1.5	1.4	3.9	0.0	2.0	3.1	0.0	114.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.0	12.3	12.8	2.4	10.5	10.8	5.0	0.0	2.6	9.2	0.0	22.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	99.2	27.8	27.7	106.9	32.4	32.3	83.4	0.0	79.6	73.4	0.0	190.6
LnGrp LOS	F	C	C	F	C	C	F		E	E		F
Approach Vol, veh/h		1037			760			160			545	
Approach Delay, s/veh		37.0			36.8			82.1			146.9	
Approach LOS		D			D			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	22.9	96.1		26.0	12.6	106.4		40.0				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	15.5	0.0		12.1	6.4	0.0		34.5				
Green Ext Time (p_c), s	0.6	0.0		0.7	0.1	0.0		0.0				

Intersection Summary	
HCM 7th Control Delay, s/veh	63.7
HCM 7th LOS	E

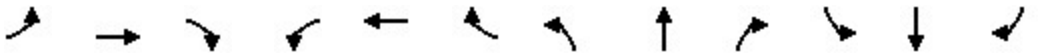
Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	580	199	131	693	19	151	23	25	26	35	44
Future Volume (veh/h)	23	580	199	131	693	19	151	23	25	26	35	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	0.98		0.98	0.97		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1885	1945	1885	1900	1900	1961	1693	1900	1841	1837	1870
Adj Flow Rate, veh/h	26	659	226	149	788	22	172	26	28	30	40	50
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	5	1	2	1	0	0	1	14	0	4	9	2
Cap, veh/h	359	1634	748	413	1793	50	375	159	171	293	94	117
Arrive On Green	0.02	0.46	0.46	0.07	0.50	0.50	0.10	0.22	0.22	0.02	0.13	0.13
Sat Flow, veh/h	1739	3582	1639	1795	3587	100	1867	737	794	1753	728	910
Grp Volume(v), veh/h	26	659	226	149	397	413	172	0	54	30	0	90
Grp Sat Flow(s),veh/h/ln	1739	1791	1639	1795	1805	1882	1867	0	1531	1753	0	1637
Q Serve(g_s), s	0.7	10.4	7.4	3.5	11.9	11.9	6.4	0.0	2.4	1.2	0.0	4.3
Cycle Q Clear(g_c), s	0.7	10.4	7.4	3.5	11.9	11.9	6.4	0.0	2.4	1.2	0.0	4.3
Prop In Lane	1.00		1.00	1.00		0.05	1.00		0.52	1.00		0.56
Lane Grp Cap(c), veh/h	359	1634	748	413	902	941	375	0	330	293	0	211
V/C Ratio(X)	0.07	0.40	0.30	0.36	0.44	0.44	0.46	0.00	0.16	0.10	0.00	0.43
Avail Cap(c_a), veh/h	547	1634	748	530	902	941	411	0	710	479	0	759
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.1	15.3	14.5	10.8	13.6	13.6	26.4	0.0	27.0	30.9	0.0	34.0
Incr Delay (d2), s/veh	0.1	0.7	1.0	0.5	1.6	1.5	0.9	0.0	0.2	0.2	0.0	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	3.9	2.8	1.2	4.6	4.7	2.9	0.0	0.9	0.5	0.0	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	12.2	16.1	15.5	11.3	15.1	15.0	27.3	0.0	27.2	31.0	0.0	35.3
LnGrp LOS	B	B	B	B	B	B	C		C	C		D
Approach Vol, veh/h		911			959			226			120	
Approach Delay, s/veh		15.8			14.5			27.2			34.2	
Approach LOS		B			B			C			C	

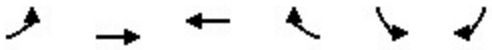
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.5	45.0	13.4	16.7	5.8	48.7	6.0	24.0
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	5.5	0.0	8.4	6.3	2.7	0.0	3.2	4.4
Green Ext Time (p_c), s	0.2	0.0	0.1	0.3	0.0	0.0	0.0	0.2

Intersection Summary	
HCM 7th Control Delay, s/veh	17.4
HCM 7th LOS	B

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
No-Build_SAT



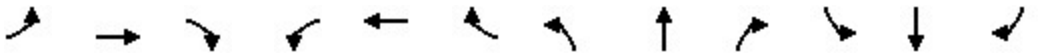
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	12	619	733	184	7	110
Future Volume (veh/h)	12	619	733	184	7	110
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1699	1885	1885	1961	1976	1976
Adj Flow Rate, veh/h	14	703	833	209	8	125
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	18	1	1	1	0	0
Cap, veh/h	416	2623	2623	1208	190	169
Arrive On Green	0.73	0.73	0.73	0.73	0.10	0.10
Sat Flow, veh/h	491	3676	3676	1649	1882	1675
Grp Volume(v), veh/h	14	703	833	209	8	125
Grp Sat Flow(s),veh/h/ln	491	1791	1791	1649	1882	1675
Q Serve(g_s), s	0.8	4.9	6.1	2.9	0.3	5.4
Cycle Q Clear(g_c), s	6.8	4.9	6.1	2.9	0.3	5.4
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	416	2623	2623	1208	190	169
V/C Ratio(X)	0.03	0.27	0.32	0.17	0.04	0.74
Avail Cap(c_a), veh/h	416	2623	2623	1208	472	420
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.93	0.93	0.95	0.95	1.00	1.00
Uniform Delay (d), s/veh	4.7	3.3	3.5	3.1	30.4	32.8
Incr Delay (d2), s/veh	0.1	0.2	0.3	0.3	0.1	8.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	1.0	1.2	0.6	0.1	2.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.8	3.6	3.8	3.4	30.6	41.4
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		717	1042		133	
Approach Delay, s/veh		3.6	3.7		40.8	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	61.2				61.2	13.8
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	7.4
Green Ext Time (p_c), s	0.0				0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	6.3
HCM 7th LOS	A

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — No-Build_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	542	0	0	868	17	49	1	341	0	0	0
Future Volume (veh/h)	84	542	0	0	868	17	49	1	341	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1885	0	0	1900	1900	1811	1976	1870			
Adj Flow Rate, veh/h	93	602	0	0	964	19	54	1	379			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90			
Percent Heavy Veh, %	0	1	0	0	0	0	6	0	2			
Cap, veh/h	384	2398	0	0	2424	48	420	1	407			
Arrive On Green	0.67	0.67	0.00	0.00	0.67	0.67	0.24	0.24	0.24			
Sat Flow, veh/h	605	3676	0	0	3715	71	1725	4	1671			
Grp Volume(v), veh/h	93	602	0	0	481	502	54	0	380			
Grp Sat Flow(s),veh/h/ln	605	1791	0	0	1805	1886	1725	0	1675			
Q Serve(g_s), s	11.5	9.3	0.0	0.0	16.8	16.8	3.4	0.0	31.1			
Cycle Q Clear(g_c), s	28.3	9.3	0.0	0.0	16.8	16.8	3.4	0.0	31.1			
Prop In Lane	1.00		0.00	0.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	384	2398	0	0	1208	1263	420	0	408			
V/C Ratio(X)	0.24	0.25	0.00	0.00	0.40	0.40	0.13	0.00	0.93			
Avail Cap(c_a), veh/h	384	2398	0	0	1208	1263	663	0	644			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.98	0.98	0.00	0.00	0.84	0.84	1.00	0.00	1.00			
Uniform Delay (d), s/veh	16.8	9.2	0.0	0.0	10.4	10.4	41.4	0.0	51.8			
Incr Delay (d2), s/veh	1.5	0.2	0.0	0.0	0.8	0.8	0.1	0.0	11.0			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.7	3.4	0.0	0.0	6.4	6.6	1.5	0.0	14.3			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	18.3	9.4	0.0	0.0	11.2	11.2	41.4	0.0	62.8			
LnGrp LOS	B	A			B	B	D		E			
Approach Vol, veh/h		695			983			434				
Approach Delay, s/veh		10.6			11.2			60.1				
Approach LOS		B			B			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	99.7	40.3	99.7
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	74.0	* 54	74.0
Max Q Clear Time (g_c+I1), s	30.3	33.1	0.0
Green Ext Time (p_c), s	0.1	1.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	21.1
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_SAT

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	92	764	27	9	770	94	14	10	13	135	9	101
Future Volume (veh/h)	92	764	27	9	770	94	14	10	13	135	9	101
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1885	1900	1976	1900	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	105	868	31	10	875	107	16	11	15	153	10	115
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	0	1	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	531	2284	82	478	1825	223	102	70	56	296	16	187
Arrive On Green	0.10	0.65	0.65	0.02	0.56	0.56	0.13	0.13	0.13	0.00	0.13	0.13
Sat Flow, veh/h	1882	3527	126	1882	3236	396	252	556	449	1810	130	1490
Grp Volume(v), veh/h	105	441	458	10	488	494	42	0	0	153	0	125
Grp Sat Flow(s),veh/h/ln	1882	1791	1862	1882	1805	1827	1256	0	0	1810	0	1619
Q Serve(g_s), s	1.3	8.2	8.2	0.2	11.5	11.5	0.1	0.0	0.0	0.1	0.0	5.2
Cycle Q Clear(g_c), s	1.3	8.2	8.2	0.2	11.5	11.5	5.2	0.0	0.0	0.1	0.0	5.2
Prop In Lane	1.00		0.07	1.00		0.22	0.38		0.36	1.00		0.92
Lane Grp Cap(c), veh/h	531	1160	1206	478	1018	1030	228	0	0	296	0	204
V/C Ratio(X)	0.20	0.38	0.38	0.02	0.48	0.48	0.18	0.00	0.00	0.52	0.00	0.61
Avail Cap(c_a), veh/h	611	1160	1206	715	1018	1030	920	0	0	548	0	1256
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.1	5.8	5.8	6.3	9.2	9.2	27.8	0.0	0.0	29.1	0.0	29.4
Incr Delay (d2), s/veh	0.2	0.9	0.9	0.0	1.6	1.6	0.4	0.0	0.0	1.4	0.0	3.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.3	2.3	0.0	3.8	3.9	0.6	0.0	0.0	2.5	0.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	5.3	6.8	6.8	6.4	10.9	10.8	28.1	0.0	0.0	30.5	0.0	32.3
LnGrp LOS	A	A	A	A	B	B	C			C		C
Approach Vol, veh/h		1004			992			42			278	
Approach Delay, s/veh		6.6			10.8			28.1			31.3	
Approach LOS		A			B			C			C	

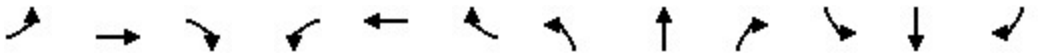
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.1	50.9		13.9	12.0	45.0	0.0	13.9				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	10.2		7.2	3.3	13.5	0.0	7.2				
Green Ext Time (p_c), s	0.0	3.4		0.5	0.1	3.8	0.0	0.1				

Intersection Summary												
HCM 7th Control Delay, s/veh			11.8									
HCM 7th LOS			B									

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
No-Build_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	124	696	89	146	702	94	77	184	141	109	215	94
Future Volume (veh/h)	124	696	89	146	702	94	77	184	141	109	215	94
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1885	1900	1900	1900	1900	1885	1900	1900	1885
Adj Flow Rate, veh/h	132	740	95	155	747	100	82	196	150	116	229	100
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	1	0	1	0	0	0	0	1	0	0	1
Cap, veh/h	415	1653	741	423	1695	754	238	277	232	269	315	264
Arrive On Green	0.06	0.46	0.46	0.07	0.47	0.47	0.05	0.15	0.15	0.07	0.17	0.17
Sat Flow, veh/h	1810	3582	1607	1795	3610	1607	1810	1900	1588	1810	1900	1589
Grp Volume(v), veh/h	132	740	95	155	747	100	82	196	150	116	229	100
Grp Sat Flow(s),veh/h/ln	1810	1791	1607	1795	1805	1607	1810	1900	1588	1810	1900	1589
Q Serve(g_s), s	3.1	11.7	2.8	3.7	11.5	2.9	3.2	8.2	7.4	4.5	9.5	4.7
Cycle Q Clear(g_c), s	3.1	11.7	2.8	3.7	11.5	2.9	3.2	8.2	7.4	4.5	9.5	4.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	415	1653	741	423	1695	754	238	277	232	269	315	264
V/C Ratio(X)	0.32	0.45	0.13	0.37	0.44	0.13	0.34	0.71	0.65	0.43	0.73	0.38
Avail Cap(c_a), veh/h	544	1653	741	536	1695	754	380	879	735	375	879	735
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.2	15.3	12.9	11.2	14.8	12.5	28.4	33.9	33.6	27.6	33.0	31.0
Incr Delay (d2), s/veh	0.4	0.9	0.4	0.5	0.8	0.4	0.9	3.3	3.0	1.1	3.2	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	4.4	1.0	1.3	4.3	1.1	1.4	3.9	3.0	1.9	4.5	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.6	16.1	13.2	11.7	15.6	12.9	29.3	37.2	36.6	28.7	36.2	31.9
LnGrp LOS	B	B	B	B	B	B	C	D	D	C	D	C
Approach Vol, veh/h		967			1002			428			445	
Approach Delay, s/veh		15.2			14.7			35.5			33.3	
Approach LOS		B			B			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.7	45.0	8.5	20.2	9.1	45.7	10.1	18.6
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	5.7	0.0	5.2	11.5	5.1	0.0	6.5	10.2
Green Ext Time (p_c), s	0.2	0.0	0.1	1.2	0.2	0.0	0.1	1.3

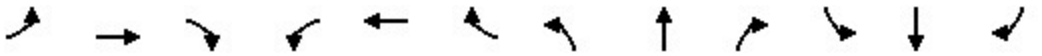
Intersection Summary	
HCM 7th Control Delay, s/veh	20.9
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — No-Build_SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	512	54	56	490	12	46	10	59	17	16	54
Future Volume (veh/h)	43	512	54	56	490	12	46	10	59	17	16	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.97	1.00		0.94
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1976	1885	1767	1900	1900	1900	1900	1976	1976
Adj Flow Rate, veh/h	45	539	57	59	516	13	48	11	62	18	17	57
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	1	0	0	1	9	0	0	0	0	0	0
Cap, veh/h	59	2222	234	76	2451	62	116	27	121	47	45	75
Arrive On Green	0.03	0.68	0.68	0.04	0.69	0.69	0.08	0.08	0.08	0.05	0.05	0.05
Sat Flow, veh/h	1781	3269	345	1882	3570	90	1485	340	1554	991	936	1580
Grp Volume(v), veh/h	45	295	301	59	259	270	59	0	62	35	0	57
Grp Sat Flow(s),veh/h/ln	1781	1791	1823	1882	1791	1869	1826	0	1554	1926	0	1580
Q Serve(g_s), s	4.6	11.7	11.7	5.7	9.8	9.8	5.7	0.0	7.1	3.3	0.0	6.6
Cycle Q Clear(g_c), s	4.6	11.7	11.7	5.7	9.8	9.8	5.7	0.0	7.1	3.3	0.0	6.6
Prop In Lane	1.00		0.19	1.00		0.05	0.81		1.00	0.51		1.00
Lane Grp Cap(c), veh/h	59	1217	1239	76	1230	1283	142	0	121	92	0	75
V/C Ratio(X)	0.76	0.24	0.24	0.78	0.21	0.21	0.41	0.00	0.51	0.38	0.00	0.76
Avail Cap(c_a), veh/h	416	1217	1239	185	1230	1283	321	0	273	338	0	277
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	88.7	11.4	11.4	88.0	10.6	10.6	81.3	0.0	81.9	85.5	0.0	87.0
Incr Delay (d2), s/veh	24.3	0.5	0.5	15.6	0.4	0.4	2.7	0.0	4.7	2.6	0.0	14.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	4.7	4.8	3.1	3.9	4.1	2.8	0.0	3.0	1.7	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	113.0	11.8	11.8	103.6	11.0	11.0	84.0	0.0	86.6	88.1	0.0	101.4
LnGrp LOS	F	B	B	F	B	B	F		F	F		F
Approach Vol, veh/h		641			588			121			92	
Approach Delay, s/veh		18.9			20.3			85.3			96.3	
Approach LOS		B			C			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.9	133.8		21.9	14.2	132.5		16.3				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	6.6	0.0		9.1	7.7	0.0		8.6				
Green Ext Time (p_c), s	0.2	0.0		0.5	0.1	0.0		0.3				

Intersection Summary		
HCM 7th Control Delay, s/veh	30.0	
HCM 7th LOS	C	

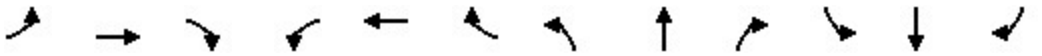
Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
1: Flint Road & Maple Road

2254561; 716 Sports Fieldhouse
Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	704	314	182	911	58	191	86	41	150	224	133
Future Volume (veh/h)	51	704	314	182	911	58	191	86	41	150	224	133
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	0.98		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1961	1885	1885	1870	1945	1604	1900	1900	1868	1856
Adj Flow Rate, veh/h	52	718	320	186	930	59	195	88	42	153	229	136
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	1	1	1	2	2	20	0	0	7	3
Cap, veh/h	250	1365	623	338	1466	93	285	266	127	460	257	153
Arrive On Green	0.03	0.38	0.38	0.08	0.43	0.43	0.10	0.26	0.26	0.08	0.24	0.24
Sat Flow, veh/h	1810	3610	1648	1795	3419	217	1853	1019	486	1810	1088	646
Grp Volume(v), veh/h	52	718	320	186	487	502	195	0	130	153	0	365
Grp Sat Flow(s),veh/h/ln	1810	1805	1648	1795	1791	1845	1853	0	1505	1810	0	1735
Q Serve(g_s), s	1.8	15.8	15.3	6.2	21.8	21.8	8.0	0.0	7.1	6.4	0.0	20.8
Cycle Q Clear(g_c), s	1.8	15.8	15.3	6.2	21.8	21.8	8.0	0.0	7.1	6.4	0.0	20.8
Prop In Lane	1.00		1.00	1.00		0.12	1.00		0.32	1.00		0.37
Lane Grp Cap(c), veh/h	250	1365	623	338	768	791	285	0	392	460	0	409
V/C Ratio(X)	0.21	0.53	0.51	0.55	0.63	0.63	0.68	0.00	0.33	0.33	0.00	0.89
Avail Cap(c_a), veh/h	390	1365	623	386	768	791	286	0	578	506	0	666
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	19.9	24.7	24.5	17.8	22.9	22.9	27.9	0.0	30.5	26.0	0.0	37.8
Incr Delay (d2), s/veh	0.4	1.5	3.0	1.4	4.0	3.9	6.5	0.0	0.5	0.4	0.0	8.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	6.6	6.4	2.5	9.3	9.6	4.0	0.0	2.6	2.8	0.0	9.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	20.3	26.1	27.5	19.2	26.9	26.8	34.4	0.0	31.0	26.4	0.0	46.7
LnGrp LOS	C	C	C	B	C	C	C		C	C		D
Approach Vol, veh/h		1090			1175			325			518	
Approach Delay, s/veh		26.3			25.6			33.1			40.7	
Approach LOS		C			C			C			D	

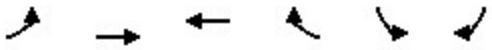
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.3	45.0	15.0	29.9	7.1	50.2	12.4	32.4
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	8.2	0.0	10.0	22.8	3.8	0.0	8.4	9.1
Green Ext Time (p_c), s	0.1	0.0	0.0	1.3	0.0	0.0	0.1	0.5

Intersection Summary	
HCM 7th Control Delay, s/veh	29.1
HCM 7th LOS	C

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
Build_PM



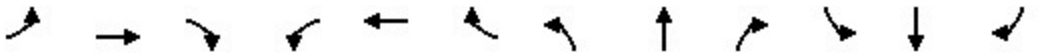
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	5	890	1008	372	24	143
Future Volume (veh/h)	5	890	1008	372	24	143
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1976	1900	1885	1961	1976	1961
Adj Flow Rate, veh/h	5	927	1050	388	25	149
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	1	1	0	1
Cap, veh/h	328	2571	2551	1169	228	201
Arrive On Green	0.71	0.71	0.71	0.71	0.12	0.12
Sat Flow, veh/h	392	3705	3676	1642	1882	1662
Grp Volume(v), veh/h	5	927	1050	388	25	149
Grp Sat Flow(s),veh/h/ln	392	1805	1791	1642	1882	1662
Q Serve(g_s), s	0.4	7.5	9.0	6.7	0.9	6.5
Cycle Q Clear(g_c), s	9.3	7.5	9.0	6.7	0.9	6.5
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	328	2571	2551	1169	228	201
V/C Ratio(X)	0.02	0.36	0.41	0.33	0.11	0.74
Avail Cap(c_a), veh/h	328	2571	2551	1169	472	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.86	0.86	0.61	0.61	1.00	1.00
Uniform Delay (d), s/veh	6.3	4.2	4.4	4.1	29.4	31.8
Incr Delay (d2), s/veh	0.1	0.3	0.3	0.5	0.3	7.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.6	1.9	1.4	0.4	2.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	6.4	4.5	4.7	4.5	29.7	39.2
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		932	1438		174	
Approach Delay, s/veh		4.5	4.7		37.8	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	59.7				59.7	15.3
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	8.5
Green Ext Time (p_c), s	0.0				0.0	0.8

Intersection Summary	
HCM 7th Control Delay, s/veh	6.9
HCM 7th LOS	A

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	72	842	0	0	1326	29	54	0	701	0	0	0
Future Volume (veh/h)	72	842	0	0	1326	29	54	0	701	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1900	0	0	1885	1796	1870	1976	1900			
Adj Flow Rate, veh/h	75	877	0	0	1381	30	56	0	720			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	0	0	0	0	1	7	2	0	0			
Cap, veh/h	136	1895	0	0	1881	41	710	0	668			
Arrive On Green	0.52	0.52	0.00	0.00	0.52	0.52	0.40	0.00	0.40			
Sat Flow, veh/h	403	3705	0	0	3677	78	1781	0	1675			
Grp Volume(v), veh/h	75	877	0	0	690	721	56	0	720			
Grp Sat Flow(s),veh/h/ln	403	1805	0	0	1791	1870	1781	0	1675			
Q Serve(g_s), s	28.3	24.4	0.0	0.0	47.6	47.7	3.1	0.0	63.8			
Cycle Q Clear(g_c), s	76.0	24.4	0.0	0.0	47.6	47.7	3.1	0.0	63.8			
Prop In Lane	1.00		0.00	0.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	136	1895	0	0	940	982	710	0	668			
V/C Ratio(X)	0.55	0.46	0.00	0.00	0.73	0.73	0.08	0.00	1.08			
Avail Cap(c_a), veh/h	136	1895	0	0	940	982	710	0	668			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.94	0.94	0.00	0.00	0.67	0.67	1.00	0.00	1.00			
Uniform Delay (d), s/veh	58.8	23.8	0.0	0.0	29.4	29.4	29.9	0.0	48.1			
Incr Delay (d2), s/veh	14.2	0.8	0.0	0.0	3.4	3.3	0.0	0.0	57.8			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	3.4	10.3	0.0	0.0	20.6	21.5	1.4	0.0	37.2			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	73.0	24.6	0.0	0.0	32.8	32.7	29.9	0.0	105.9			
LnGrp LOS	E	C			C	C	C		F			
Approach Vol, veh/h		952			1411			776				
Approach Delay, s/veh		28.4			32.7			100.4				
Approach LOS		C			C			F				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	90.0	70.0	90.0
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	84.0	* 64	84.0
Max Q Clear Time (g_c+I1), s	78.0	65.8	0.0
Green Ext Time (p_c), s	0.1	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	48.2
HCM 7th LOS	D

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
Build_PM

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	26	1494	23	16	1285	66	20	14	14	136	15	50
Future Volume (veh/h)	26	1494	23	16	1285	66	20	14	14	136	15	50
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1900	1900	1976	1885	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	27	1556	24	17	1339	69	21	15	15	142	16	52
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	1	0	0	0	0	0	0	0
Cap, veh/h	339	2277	35	272	2089	107	134	91	62	349	49	158
Arrive On Green	0.05	0.63	0.63	0.02	0.60	0.60	0.12	0.12	0.12	0.00	0.12	0.12
Sat Flow, veh/h	1882	3639	56	1882	3466	178	461	737	499	1810	392	1275
Grp Volume(v), veh/h	27	771	809	17	691	717	51	0	0	142	0	68
Grp Sat Flow(s),veh/h/ln	1882	1805	1890	1882	1791	1853	1698	0	0	1810	0	1667
Q Serve(g_s), s	0.3	18.5	18.6	0.2	16.6	16.7	0.0	0.0	0.0	0.1	0.0	2.5
Cycle Q Clear(g_c), s	0.3	18.5	18.6	0.2	16.6	16.7	1.6	0.0	0.0	0.1	0.0	2.5
Prop In Lane	1.00		0.03	1.00		0.10	0.41		0.29	1.00		0.76
Lane Grp Cap(c), veh/h	339	1129	1182	272	1079	1117	287	0	0	349	0	207
V/C Ratio(X)	0.08	0.68	0.68	0.06	0.64	0.64	0.18	0.00	0.00	0.41	0.00	0.33
Avail Cap(c_a), veh/h	534	1129	1182	510	1079	1117	1062	0	0	619	0	1381
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	6.4	8.1	8.1	7.0	8.5	8.5	26.2	0.0	0.0	25.7	0.0	26.5
Incr Delay (d2), s/veh	0.1	3.4	3.2	0.1	2.9	2.8	0.3	0.0	0.0	0.8	0.0	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	5.6	5.8	0.1	5.1	5.3	0.7	0.0	0.0	2.0	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	6.5	11.5	11.4	7.1	11.4	11.4	26.5	0.0	0.0	26.5	0.0	27.5
LnGrp LOS	A	B	B	A	B	B	C			C		C
Approach Vol, veh/h		1607			1425			51			210	
Approach Delay, s/veh		11.3			11.4			26.5			26.8	
Approach LOS		B			B			C			C	

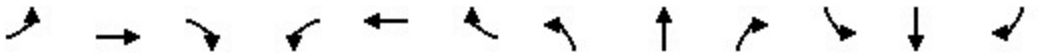
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.6	46.5		13.2	8.1	45.0	0.0	13.2				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	20.6		4.5	2.3	18.7	0.0	3.6				
Green Ext Time (p_c), s	0.0	6.8		0.2	0.0	6.0	0.0	0.2				

Intersection Summary												
HCM 7th Control Delay, s/veh			12.6									
HCM 7th LOS			B									

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
Build_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	205	1192	179	198	994	176	150	388	243	196	324	136
Future Volume (veh/h)	205	1192	179	198	994	176	150	388	243	196	324	136
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1870	1900	1900	1885	1900	1885	1900	1900	1885	1885
Adj Flow Rate, veh/h	209	1216	183	202	1014	180	153	396	248	200	331	139
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	2	0	0	1	0	1	0	0	1	1
Cap, veh/h	290	1334	582	248	1326	583	314	456	390	283	492	417
Arrive On Green	0.09	0.37	0.37	0.09	0.37	0.37	0.08	0.24	0.24	0.10	0.26	0.26
Sat Flow, veh/h	1810	3610	1574	1810	3610	1587	1810	1885	1610	1810	1885	1598
Grp Volume(v), veh/h	209	1216	183	202	1014	180	153	396	248	200	331	139
Grp Sat Flow(s),veh/h/ln	1810	1805	1574	1810	1805	1587	1810	1885	1610	1810	1885	1598
Q Serve(g_s), s	7.4	33.6	8.7	7.2	25.9	8.5	6.5	21.1	14.5	8.6	16.5	7.4
Cycle Q Clear(g_c), s	7.4	33.6	8.7	7.2	25.9	8.5	6.5	21.1	14.5	8.6	16.5	7.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	290	1334	582	248	1326	583	314	456	390	283	492	417
V/C Ratio(X)	0.72	0.91	0.31	0.82	0.76	0.31	0.49	0.87	0.64	0.71	0.67	0.33
Avail Cap(c_a), veh/h	316	1334	582	278	1326	583	356	694	593	291	694	588
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.8	31.4	23.6	24.3	29.2	23.7	27.4	38.1	35.6	28.2	34.7	31.3
Incr Delay (d2), s/veh	7.1	10.9	1.4	15.4	4.2	1.4	1.2	7.5	1.7	7.4	1.6	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.5	15.6	3.4	3.8	11.3	3.3	2.9	10.5	5.7	4.2	7.6	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	29.9	42.3	25.0	39.8	33.4	25.0	28.6	45.6	37.3	35.6	36.3	31.8
LnGrp LOS	C	D	C	D	C	C	C	D	D	D	D	C
Approach Vol, veh/h		1608			1396			797			670	
Approach Delay, s/veh		38.7			33.3			39.8			35.1	
Approach LOS		D			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	45.2	12.6	33.8	13.5	45.0	14.6	31.8
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	9.2	0.0	8.5	18.5	9.4	0.0	10.6	23.1
Green Ext Time (p_c), s	0.1	0.0	0.1	1.7	0.1	0.0	0.0	2.2

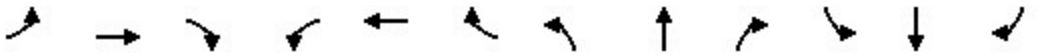
Intersection Summary	
HCM 7th Control Delay, s/veh	36.7
HCM 7th LOS	D

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — Build_PM



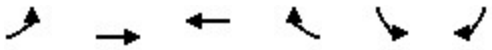
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	127	825	33	61	635	45	68	31	71	132	61	325
Future Volume (veh/h)	127	825	33	61	635	45	68	31	71	132	61	325
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.96	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1976	1870	1826	1900	1900	1900	1885	1976	1976
Adj Flow Rate, veh/h	134	868	35	64	668	47	72	33	75	139	64	342
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	1	0	0	2	5	0	0	0	1	0	0
Cap, veh/h	158	1846	74	81	1624	114	127	58	155	230	106	288
Arrive On Green	0.09	0.53	0.53	0.04	0.48	0.48	0.10	0.10	0.10	0.18	0.18	0.18
Sat Flow, veh/h	1810	3509	141	1882	3368	237	1260	577	1548	1308	602	1637
Grp Volume(v), veh/h	134	443	460	64	352	363	105	0	75	203	0	342
Grp Sat Flow(s),veh/h/ln	1810	1791	1860	1882	1777	1828	1837	0	1548	1911	0	1637
Q Serve(g_s), s	13.5	28.8	28.8	6.2	23.7	23.7	10.1	0.0	8.5	18.1	0.0	32.5
Cycle Q Clear(g_c), s	13.5	28.8	28.8	6.2	23.7	23.7	10.1	0.0	8.5	18.1	0.0	32.5
Prop In Lane	1.00		0.08	1.00		0.13	0.69		1.00	0.68		1.00
Lane Grp Cap(c), veh/h	158	942	978	81	857	881	184	0	155	336	0	288
V/C Ratio(X)	0.85	0.47	0.47	0.79	0.41	0.41	0.57	0.00	0.48	0.60	0.00	1.19
Avail Cap(c_a), veh/h	423	942	978	185	857	881	323	0	272	336	0	288
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	83.2	27.6	27.6	87.6	30.9	31.0	79.4	0.0	78.7	70.3	0.0	76.3
Incr Delay (d2), s/veh	16.0	1.7	1.6	15.2	1.5	1.4	3.9	0.0	3.3	3.1	0.0	114.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.0	12.7	13.2	3.4	10.5	10.8	5.0	0.0	3.6	9.2	0.0	22.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	99.2	29.3	29.2	102.8	32.4	32.4	83.3	0.0	81.9	73.4	0.0	190.6
LnGrp LOS	F	C	C	F	C	C	F		F	E		F
Approach Vol, veh/h		1037			779			180			545	
Approach Delay, s/veh		38.3			38.2			82.7			146.9	
Approach LOS		D			D			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	22.9	96.0		26.1	14.8	104.1		40.0				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	15.5	0.0		12.1	8.2	0.0		34.5				
Green Ext Time (p_c), s	0.6	0.0		0.8	0.1	0.0		0.0				

Intersection Summary	
HCM 7th Control Delay, s/veh	64.7
HCM 7th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



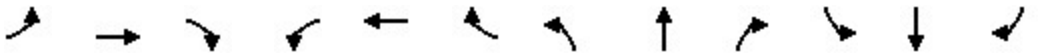
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	214	1430	1138	143	153	229
Future Volume (veh/h)	214	1430	1138	143	153	229
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1885	1900	1900	1900
Adj Flow Rate, veh/h	223	1490	1185	149	159	239
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	1	0	0	0
Cap, veh/h	280	2171	1926	241	337	300
Arrive On Green	0.60	0.60	0.60	0.60	0.19	0.19
Sat Flow, veh/h	417	3705	3297	401	1810	1610
Grp Volume(v), veh/h	223	1490	661	673	159	239
Grp Sat Flow(s),veh/h/ln	417	1805	1791	1813	1810	1610
Q Serve(g_s), s	20.7	15.8	13.2	13.3	4.4	8.0
Cycle Q Clear(g_c), s	34.0	15.8	13.2	13.3	4.4	8.0
Prop In Lane	1.00			0.22	1.00	1.00
Lane Grp Cap(c), veh/h	280	2171	1077	1090	337	300
V/C Ratio(X)	0.80	0.69	0.61	0.62	0.47	0.80
Avail Cap(c_a), veh/h	280	2171	1077	1090	448	399
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.2	7.6	7.1	7.1	20.5	22.0
Incr Delay (d2), s/veh	14.7	0.9	1.0	1.1	1.0	8.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	4.6	3.1	3.2	1.8	3.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	35.9	8.6	8.2	8.2	21.5	30.0
LnGrp LOS	D	A	A	A	C	C
Approach Vol, veh/h		1713	1334		398	
Approach Delay, s/veh		12.1	8.2		26.6	
Approach LOS		B	A		C	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			40.0		16.5	40.0
Change Period (Y+Rc), s			6.0		6.0	6.0
Max Green Setting (Gmax), s			34.0		14.0	34.0
Max Q Clear Time (g_c+I1), s			36.0		10.0	0.0
Green Ext Time (p_c), s			0.0		0.5	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	12.3
HCM 7th LOS	B

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
1: Flint Road & Maple Road — Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	624	199	141	730	19	151	23	36	26	35	44
Future Volume (veh/h)	23	624	199	141	730	19	151	23	36	26	35	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	0.98		0.98	0.97		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1885	1945	1885	1900	1900	1961	1693	1900	1841	1837	1870
Adj Flow Rate, veh/h	26	709	226	160	830	22	172	26	41	30	40	50
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	5	1	2	1	0	0	1	14	0	4	9	2
Cap, veh/h	344	1627	745	401	1801	48	374	126	199	291	94	117
Arrive On Green	0.02	0.45	0.45	0.07	0.50	0.50	0.10	0.22	0.22	0.02	0.13	0.13
Sat Flow, veh/h	1739	3582	1639	1795	3592	95	1867	584	921	1753	728	910
Grp Volume(v), veh/h	26	709	226	160	417	435	172	0	67	30	0	90
Grp Sat Flow(s),veh/h/ln	1739	1791	1639	1795	1805	1883	1867	0	1505	1753	0	1637
Q Serve(g_s), s	0.7	11.4	7.4	3.8	12.7	12.7	6.5	0.0	3.1	1.3	0.0	4.3
Cycle Q Clear(g_c), s	0.7	11.4	7.4	3.8	12.7	12.7	6.5	0.0	3.1	1.3	0.0	4.3
Prop In Lane	1.00		1.00	1.00		0.05	1.00		0.61	1.00		0.56
Lane Grp Cap(c), veh/h	344	1627	745	401	905	944	374	0	324	291	0	211
V/C Ratio(X)	0.08	0.44	0.30	0.40	0.46	0.46	0.46	0.00	0.21	0.10	0.00	0.43
Avail Cap(c_a), veh/h	532	1627	745	510	905	944	410	0	694	476	0	755
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.3	15.8	14.7	11.0	13.7	13.7	26.5	0.0	27.4	31.0	0.0	34.1
Incr Delay (d2), s/veh	0.1	0.9	1.0	0.6	1.7	1.6	0.9	0.0	0.3	0.2	0.0	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	4.3	2.8	1.3	4.9	5.1	2.9	0.0	1.1	0.5	0.0	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	12.4	16.6	15.7	11.7	15.4	15.4	27.4	0.0	27.7	31.2	0.0	35.5
LnGrp LOS	B	B	B	B	B	B	C		C	C		D
Approach Vol, veh/h		961			1012			239			120	
Approach Delay, s/veh		16.3			14.8			27.5			34.4	
Approach LOS		B			B			C			C	

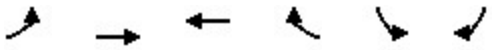
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.8	45.0	13.4	16.8	5.8	49.0	6.0	24.1
Change Period (Y+Rc), s	4.0	6.4	5.0	5.8	4.0	6.4	4.0	5.8
Max Green Setting (Gmax), s	11.0	38.6	10.0	39.2	11.0	38.6	11.0	39.2
Max Q Clear Time (g_c+I1), s	5.8	0.0	8.5	6.3	2.7	0.0	3.3	5.1
Green Ext Time (p_c), s	0.2	0.0	0.1	0.3	0.0	0.0	0.0	0.2

Intersection Summary	
HCM 7th Control Delay, s/veh	17.7
HCM 7th LOS	B

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
2: Maple Road & CR 263 SB Ramps

2254561; 716 Sports Fieldhouse
Build _SAT



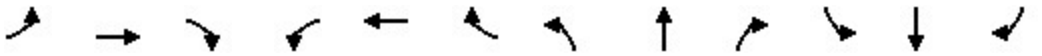
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	12	674	780	242	7	110
Future Volume (veh/h)	12	674	780	242	7	110
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00			0.99	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1699	1885	1885	1961	1976	1976
Adj Flow Rate, veh/h	14	766	886	275	8	125
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	18	1	1	1	0	0
Cap, veh/h	379	2623	2623	1208	190	169
Arrive On Green	0.73	0.73	0.73	0.73	0.10	0.10
Sat Flow, veh/h	439	3676	3676	1649	1882	1675
Grp Volume(v), veh/h	14	766	886	275	8	125
Grp Sat Flow(s),veh/h/ln	439	1791	1791	1649	1882	1675
Q Serve(g_s), s	0.9	5.5	6.6	4.0	0.3	5.4
Cycle Q Clear(g_c), s	7.5	5.5	6.6	4.0	0.3	5.4
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	379	2623	2623	1208	190	169
V/C Ratio(X)	0.04	0.29	0.34	0.23	0.04	0.74
Avail Cap(c_a), veh/h	379	2623	2623	1208	472	420
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.91	0.91	0.91	0.91	1.00	1.00
Uniform Delay (d), s/veh	4.9	3.4	3.6	3.2	30.4	32.8
Incr Delay (d2), s/veh	0.2	0.3	0.3	0.4	0.1	8.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	1.1	1.3	0.8	0.1	2.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.1	3.7	3.9	3.6	30.6	41.4
LnGrp LOS	A	A	A	A	C	D
Approach Vol, veh/h		780	1161		133	
Approach Delay, s/veh		3.7	3.8		40.8	
Approach LOS		A	A		D	

Timer - Assigned Phs	2				6	8
Phs Duration (G+Y+Rc), s	61.2				61.2	13.8
Change Period (Y+Rc), s	6.3				6.3	6.2
Max Green Setting (Gmax), s	43.7				43.7	18.8
Max Q Clear Time (g_c+I1), s	0.0				0.0	7.4
Green Ext Time (p_c), s	0.0				0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	6.1
HCM 7th LOS	A

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	597	0	0	973	17	49	1	407	0	0	0
Future Volume (veh/h)	84	597	0	0	973	17	49	1	407	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1885	0	0	1900	1900	1811	1976	1870			
Adj Flow Rate, veh/h	93	663	0	0	1081	19	54	1	452			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90			
Percent Heavy Veh, %	0	1	0	0	0	0	6	0	2			
Cap, veh/h	305	2243	0	0	2272	40	495	1	479			
Arrive On Green	0.63	0.63	0.00	0.00	0.63	0.63	0.29	0.29	0.29			
Sat Flow, veh/h	541	3676	0	0	3724	64	1725	4	1671			
Grp Volume(v), veh/h	93	663	0	0	538	562	54	0	453			
Grp Sat Flow(s),veh/h/ln	541	1791	0	0	1805	1888	1725	0	1675			
Q Serve(g_s), s	15.5	11.9	0.0	0.0	22.2	22.2	3.2	0.0	37.0			
Cycle Q Clear(g_c), s	37.7	11.9	0.0	0.0	22.2	22.2	3.2	0.0	37.0			
Prop In Lane	1.00		0.00	0.00		0.03	1.00		1.00			
Lane Grp Cap(c), veh/h	305	2243	0	0	1130	1182	495	0	480			
V/C Ratio(X)	0.31	0.30	0.00	0.00	0.48	0.48	0.11	0.00	0.94			
Avail Cap(c_a), veh/h	305	2243	0	0	1130	1182	663	0	644			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.97	0.97	0.00	0.00	0.77	0.77	1.00	0.00	1.00			
Uniform Delay (d), s/veh	24.0	12.0	0.0	0.0	13.9	13.9	36.8	0.0	48.8			
Incr Delay (d2), s/veh	2.5	0.3	0.0	0.0	1.1	1.1	0.0	0.0	17.0			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	2.1	4.6	0.0	0.0	8.8	9.1	1.4	0.0	17.7			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	26.5	12.3	0.0	0.0	15.0	15.0	36.8	0.0	65.8			
LnGrp LOS	C	B			B	B	D		E			
Approach Vol, veh/h		756			1100			507				
Approach Delay, s/veh		14.1			15.0			62.7				
Approach LOS		B			B			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	93.7	46.3	93.7
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	74.0	* 54	74.0
Max Q Clear Time (g_c+I1), s	39.7	39.0	0.0
Green Ext Time (p_c), s	0.1	1.1	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	24.9
HCM 7th LOS	C

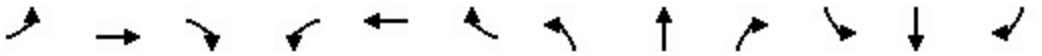
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
4: N Maplemere Rd & Maple Road

2254561; 716 Sports Fieldhouse
Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	92	886	27	9	875	104	14	10	13	146	9	101
Future Volume (veh/h)	92	886	27	9	875	104	14	10	13	146	9	101
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.04	1.00	1.00	1.04	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1976	1885	1900	1976	1900	1900	1900	1976	1900	1900	1900	1900
Adj Flow Rate, veh/h	105	1007	31	10	994	118	16	11	15	166	10	115
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	0	1	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	486	2296	71	421	1832	217	102	70	56	296	16	187
Arrive On Green	0.10	0.65	0.65	0.02	0.56	0.56	0.13	0.13	0.13	0.00	0.13	0.13
Sat Flow, veh/h	1882	3547	109	1882	3248	385	252	556	449	1810	130	1490
Grp Volume(v), veh/h	105	508	530	10	552	560	42	0	0	166	0	125
Grp Sat Flow(s),veh/h/ln	1882	1791	1865	1882	1805	1829	1256	0	0	1810	0	1619
Q Serve(g_s), s	1.3	9.9	9.9	0.2	13.6	13.6	0.1	0.0	0.0	0.1	0.0	5.2
Cycle Q Clear(g_c), s	1.3	9.9	9.9	0.2	13.6	13.6	5.2	0.0	0.0	0.1	0.0	5.2
Prop In Lane	1.00		0.06	1.00		0.21	0.38		0.36	1.00		0.92
Lane Grp Cap(c), veh/h	486	1160	1208	421	1018	1031	228	0	0	296	0	204
V/C Ratio(X)	0.22	0.44	0.44	0.02	0.54	0.54	0.18	0.00	0.00	0.56	0.00	0.61
Avail Cap(c_a), veh/h	566	1160	1208	658	1018	1031	920	0	0	548	0	1256
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.7	6.2	6.2	6.4	9.7	9.7	27.8	0.0	0.0	29.4	0.0	29.4
Incr Delay (d2), s/veh	0.2	1.2	1.2	0.0	2.1	2.1	0.4	0.0	0.0	1.7	0.0	3.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.8	2.9	0.0	4.6	4.6	0.6	0.0	0.0	2.7	0.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	6.0	7.4	7.3	6.4	11.8	11.8	28.1	0.0	0.0	31.1	0.0	32.3
LnGrp LOS	A	A	A	A	B	B	C			C		C
Approach Vol, veh/h		1143			1122			42			291	
Approach Delay, s/veh		7.2			11.7			28.1			31.6	
Approach LOS		A			B			C			C	

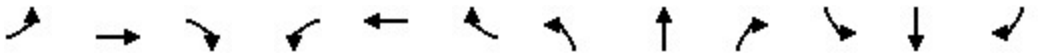
Timer - Assigned Phs	1	2		4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.1	50.9		13.9	12.0	45.0	0.0	13.9				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	10.0	40.0		55.0	10.0	40.0	10.0	40.0				
Max Q Clear Time (g_c+I1), s	2.2	11.9		7.2	3.3	15.6	0.0	7.2				
Green Ext Time (p_c), s	0.0	4.0		0.5	0.1	4.4	0.0	0.1				

Intersection Summary												
HCM 7th Control Delay, s/veh			12.2									
HCM 7th LOS			B									

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary
5: N Forest Road & Maple Road

2254561; 716 Sports Fieldhouse
Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	143	735	108	146	746	94	99	184	141	109	215	116
Future Volume (veh/h)	143	735	108	146	746	94	99	184	141	109	215	116
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1885	1900	1885	1900	1900	1900	1900	1885	1900	1900	1885
Adj Flow Rate, veh/h	152	782	115	155	794	100	105	196	150	116	229	123
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	1	0	1	0	0	0	0	1	0	0	1
Cap, veh/h	400	1633	732	399	1651	735	254	294	246	277	306	256
Arrive On Green	0.07	0.46	0.46	0.07	0.46	0.46	0.07	0.15	0.15	0.07	0.16	0.16
Sat Flow, veh/h	1810	3582	1607	1795	3610	1607	1810	1900	1588	1810	1900	1589
Grp Volume(v), veh/h	152	782	115	155	794	100	105	196	150	116	229	123
Grp Sat Flow(s),veh/h/ln	1810	1791	1607	1795	1805	1607	1810	1900	1588	1810	1900	1589
Q Serve(g_s), s	3.7	12.8	3.5	3.8	12.9	3.0	4.0	8.2	7.4	4.5	9.7	5.9
Cycle Q Clear(g_c), s	3.7	12.8	3.5	3.8	12.9	3.0	4.0	8.2	7.4	4.5	9.7	5.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	400	1633	732	399	1651	735	254	294	246	277	306	256
V/C Ratio(X)	0.38	0.48	0.16	0.39	0.48	0.14	0.41	0.67	0.61	0.42	0.75	0.48
Avail Cap(c_a), veh/h	513	1633	732	509	1651	735	369	868	726	381	868	726
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.7	16.0	13.5	11.7	15.9	13.3	27.7	33.6	33.3	27.4	33.8	32.2
Incr Delay (d2), s/veh	0.6	1.0	0.5	0.6	1.0	0.4	1.1	2.6	2.4	1.0	3.7	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	4.8	1.3	1.3	4.9	1.1	1.8	3.9	2.9	1.9	4.6	2.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	12.3	17.0	13.9	12.3	17.0	13.6	28.8	36.2	35.7	28.4	37.5	33.6
LnGrp LOS	B	B	B	B	B	B	C	D	D	C	D	C
Approach Vol, veh/h		1049			1049			451			468	
Approach Delay, s/veh		16.0			16.0			34.3			34.2	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.8	45.0	9.6	20.0	9.7	45.1	10.1	19.5
Change Period (Y+Rc), s	4.0	6.5	4.0	* 6.4	4.0	6.5	4.0	* 6.4
Max Green Setting (Gmax), s	11.0	38.5	11.0	* 39	11.0	38.5	11.0	* 39
Max Q Clear Time (g_c+I1), s	5.8	0.0	6.0	11.7	5.7	0.0	6.5	10.2
Green Ext Time (p_c), s	0.2	0.0	0.1	1.3	0.2	0.0	0.1	1.3

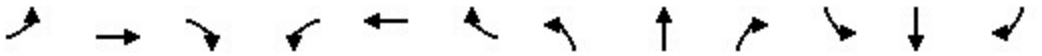
Intersection Summary	
HCM 7th Control Delay, s/veh	21.5
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
6: N Maplemere Road/Coventry Road & CR 263 — Build _SAT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	512	54	67	490	12	46	10	69	17	16	54
Future Volume (veh/h)	43	512	54	67	490	12	46	10	69	17	16	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.97	1.00		0.94
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1976	1885	1767	1900	1900	1900	1900	1976	1976
Adj Flow Rate, veh/h	45	539	57	71	516	13	48	11	73	18	17	57
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	1	0	0	1	9	0	0	0	0	0	0
Cap, veh/h	59	2180	230	89	2432	61	124	28	130	47	45	75
Arrive On Green	0.03	0.67	0.67	0.05	0.68	0.68	0.08	0.08	0.08	0.05	0.05	0.05
Sat Flow, veh/h	1781	3269	345	1882	3570	90	1485	340	1558	991	936	1580
Grp Volume(v), veh/h	45	295	301	71	259	270	59	0	73	35	0	57
Grp Sat Flow(s),veh/h/ln	1781	1791	1823	1882	1791	1869	1826	0	1558	1926	0	1580
Q Serve(g_s), s	4.6	12.1	12.2	6.9	10.0	10.0	5.7	0.0	8.3	3.3	0.0	6.6
Cycle Q Clear(g_c), s	4.6	12.1	12.2	6.9	10.0	10.0	5.7	0.0	8.3	3.3	0.0	6.6
Prop In Lane	1.00		0.19	1.00		0.05	0.81		1.00	0.51		1.00
Lane Grp Cap(c), veh/h	59	1194	1216	89	1220	1273	152	0	130	92	0	75
V/C Ratio(X)	0.76	0.25	0.25	0.80	0.21	0.21	0.39	0.00	0.56	0.38	0.00	0.76
Avail Cap(c_a), veh/h	416	1194	1216	185	1220	1273	321	0	274	338	0	277
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	88.7	12.3	12.3	87.2	11.0	11.0	80.3	0.0	81.5	85.5	0.0	87.0
Incr Delay (d2), s/veh	24.3	0.5	0.5	14.7	0.4	0.4	2.3	0.0	5.3	2.6	0.0	14.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	4.9	5.1	3.7	4.0	4.2	2.8	0.0	3.6	1.7	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	113.0	12.8	12.8	101.9	11.4	11.4	82.6	0.0	86.8	88.1	0.0	101.4
LnGrp LOS	F	B	B	F	B	B	F		F	F		F
Approach Vol, veh/h		641			600			132			92	
Approach Delay, s/veh		19.8			22.1			84.9			96.3	
Approach LOS		B			C			F			F	

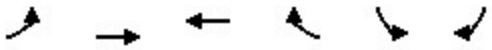
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.9	132.8		22.9	15.6	130.2		16.3				
Change Period (Y+Rc), s	6.8	6.8		7.5	6.8	6.8		7.5				
Max Green Setting (Gmax), s	43.2	48.2		32.5	18.2	73.2		32.5				
Max Q Clear Time (g_c+I1), s	6.6	0.0		10.3	8.9	0.0		8.6				
Green Ext Time (p_c), s	0.2	0.0		0.6	0.1	0.0		0.3				

Intersection Summary		
HCM 7th Control Delay, s/veh	31.4	
HCM 7th LOS	C	

Notes

User approved pedestrian interval to be less than phase max green.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)



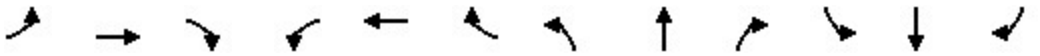
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	133	912	873	88	77	115
Future Volume (veh/h)	133	912	873	88	77	115
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	151	1036	992	100	88	131
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	377	1920	1761	177	233	208
Arrive On Green	0.53	0.53	0.53	0.53	0.13	0.13
Sat Flow, veh/h	525	3705	3406	334	1810	1610
Grp Volume(v), veh/h	151	1036	541	551	88	131
Grp Sat Flow(s),veh/h/ln	525	1805	1805	1840	1810	1610
Q Serve(g_s), s	9.6	6.7	7.1	7.1	1.6	2.7
Cycle Q Clear(g_c), s	16.6	6.7	7.1	7.1	1.6	2.7
Prop In Lane	1.00			0.18	1.00	1.00
Lane Grp Cap(c), veh/h	377	1920	960	979	233	208
V/C Ratio(X)	0.40	0.54	0.56	0.56	0.38	0.63
Avail Cap(c_a), veh/h	603	3470	1735	1769	716	637
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.1	5.4	5.5	5.5	14.1	14.6
Incr Delay (d2), s/veh	0.7	0.2	0.5	0.5	1.0	3.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	1.3	0.9	1.0	0.6	1.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	11.8	5.7	6.1	6.0	15.1	17.8
LnGrp LOS	B	A	A	A	B	B
Approach Vol, veh/h		1187	1092		219	
Approach Delay, s/veh		6.5	6.1		16.7	
Approach LOS		A	A		B	

Timer - Assigned Phs		4		6	8
Phs Duration (G+Y+Rc), s		24.8		10.6	24.8
Change Period (Y+Rc), s		6.0		6.0	6.0
Max Green Setting (Gmax), s		34.0		14.0	34.0
Max Q Clear Time (g_c+I1), s		18.6		4.7	0.0
Green Ext Time (p_c), s		0.2		0.4	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	7.2
HCM 7th LOS	A

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

HCM 7th Signalized Intersection Summary — 2254561; 716 Sports Fieldhouse
3: CR 263 NB Off Ramp/CR 263 NB On Ramp & Maple Road — Build - Mitigation_PM



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	72	842	0	0	1326	29	54	0	701	0	0	0
Future Volume (veh/h)	72	842	0	0	1326	29	54	0	701	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1976	1900	0	0	1885	1796	1870	1976	1900			
Adj Flow Rate, veh/h	75	877	0	0	1381	30	56	0	720			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	0	0	0	0	1	7	2	0	0			
Cap, veh/h	109	1743	0	0	1730	38	785	0	738			
Arrive On Green	0.48	0.48	0.00	0.00	0.48	0.48	0.44	0.00	0.44			
Sat Flow, veh/h	403	3705	0	0	3677	78	1781	0	1675			
Grp Volume(v), veh/h	75	877	0	0	690	721	56	0	720			
Grp Sat Flow(s),veh/h/ln	403	1805	0	0	1791	1870	1781	0	1675			
Q Serve(g_s), s	25.3	26.6	0.0	0.0	51.8	52.0	2.9	0.0	67.5			
Cycle Q Clear(g_c), s	77.3	26.6	0.0	0.0	51.8	52.0	2.9	0.0	67.5			
Prop In Lane	1.00		0.00	0.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	109	1743	0	0	865	903	785	0	738			
V/C Ratio(X)	0.69	0.50	0.00	0.00	0.80	0.80	0.07	0.00	0.98			
Avail Cap(c_a), veh/h	109	1743	0	0	865	903	822	0	772			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.94	0.94	0.00	0.00	0.67	0.67	1.00	0.00	1.00			
Uniform Delay (d), s/veh	69.3	28.3	0.0	0.0	34.8	34.8	25.8	0.0	43.9			
Incr Delay (d2), s/veh	28.8	1.0	0.0	0.0	5.2	5.0	0.0	0.0	25.5			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	3.9	11.5	0.0	0.0	23.1	24.1	1.3	0.0	33.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	98.1	29.2	0.0	0.0	40.0	39.9	25.8	0.0	69.4			
LnGrp LOS	F	C			D	D	C		E			
Approach Vol, veh/h		952			1411			776				
Approach Delay, s/veh		34.7			39.9			66.2				
Approach LOS		C			D			E				

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	83.3	76.7	83.3
Change Period (Y+Rc), s	6.0	* 6.2	6.0
Max Green Setting (Gmax), s	74.0	* 74	74.0
Max Q Clear Time (g_c+I1), s	79.3	69.5	0.0
Green Ext Time (p_c), s	0.0	1.1	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	44.8
HCM 7th LOS	D

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Attachment: Z-2007-03_A Amended Rezoning application 101625 (30975 : Z-2007-03_A, 330 Maple Road)

TOWN OF AMHERST
PLANNING BOARD
RELIEF OF ZONING CONDITIONS RESOLUTION
Z-2007-3_A

PETITIONER

716 Sports Complex Inc.
Sean Hopkins, Esq.
c/o Sean Hopkins, Esq.
Hopkins Sorgi & McCarthy PLLC
35 California Drive, Suite 100
Williamsville, NY 14221

PROPERTY LOCATION

330 Maple Road

OCT 23 2025 PM2

WHEREAS the Town of Amherst Planning Board on Thursday, October 16, 2025 held a public hearing on the proposed relief of zoning conditions imposed by the Town Board on June 2, 2008 for land at 218 and 330 Maple Road for a proposed sports complex, and

WHEREAS the Planning Board has reviewed plans and other materials regarding the request to remove zoning conditions of approval related to structure height and size, and

WHEREAS the materials and plans have been referred to the Town's various review agencies, and

WHEREAS in accordance with Section 8-3-5 of the Zoning Ordinance the Planning Board finds that:

A. The proposed request for relief of zoning conditions is generally consistent with the policies of the Comprehensive Plan, and the Town's Conceptual Land Use Plan (Figure 6) that recommends a Commercial / Mixed-Use designation as the subject location.

B. There may be adequate services and utilities available or proposed to be made available for the request for relief of zoning conditions to allow for the proposed construction of the development. Further information is necessary to determine the adequacy of existing infrastructure.

C. The proposal for relief of zoning conditions as represented in the concept plan is a permitted use with the present zoning district and conforms to the uses of adjacent properties. The concept plan represents proposed buildings that do not meet the dimensional standards of the zoning ordinance for the height allowed in the existing zoning district.

D. The subject property is suitable for the use which relief of conditions are being sought.

E. The proposed relief of conditions may tend to improve the balance of uses, or may meet a specific demand in the Town and the Western New York area.

Attachment: Z-2007-03A signed resolution 101625 (30975 : Z-2007-03_A, 330 Maple Road)

TOWN OF AMHERST
PLANNING BOARD
RELIEF OF ZONING CONDITIONS RESOLUTION
Z-2007-3_A

PETITIONER

716 Sports Complex Inc.

PROPERTY LOCATION

330 Maple Road

OCT 23 2025 PM2

NOW THEREFORE BE IT RESOLVED that the Planning Board recommends to the Town Board in accordance with Section 8-3-4 of the Zoning Ordinance, that the request to remove and amend rezoning conditions of approval be approved based on the findings of this Board and the proposed concept plan subject to the following condition:

1. That the proposed development makes every effort to reduce the building heights and locate the structures as far north from the Maple Road right-of-way as possible.

The foregoing resolution was adopted by the Town of Amherst Planning Board, October 16, 2025; moved by Davis; seconded by Gill; ayes 5; noes 0; absent 2 (Penberthy, O'Rourke).

Michael J. Chmiel, Planning Board Chair

10/23/25
Date

SM/ac
X:\Current_Planning\Files\Rezonings\2007\Z-2007-03_A_(330_Maple_Rd)_2025\Z-2007-03_A_resolution_101625.doc
Cc: Town Clerk
Commissioner of Building
Highway Superintendent
Town Engineer
Traffic/Safety Coordinator
Sean Hopkins, Esq – shopkins@hsmlegal.com
Dr. Brian McGrath – bem4@buffalo.edu
Frank Ciminelli – fciminelli@arcbldg.com
David Johnson – djohnson@LaBellaPC.com

Attachment: Z-2007-03A signed resolution 101625 (30975 : Z-2007-03_A, 330 Maple Road)

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

ADOPTED

Meeting: 10/16/25 06:30 PM
Department: Planning
Category: Rezoning and Relief from Conditions of Rezoning
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 31002

PLANNING BOARD ITEM (ID # 31002)

Request for Relief to Conditions of Site Plan Approval, SP-2025-03_A

Property located at 4548 & 4564 Main Street and 17 Fruehauf Avenue
Benderson Development Company LLC, Petitioner

The petitioner is requesting that condition number 11 of the Planning Board's resolution of approval dated September 25, 2025 be rescinded due to the extreme costs and uncertainty involved in complying with the requirement. The Planning Board has not made a similar condition for other similar projects that have been constructed in the Town. Parking is provided for 74 vehicles and is integral to the building. 45 parking spaces are located in the basement level which will be accessed via Fruehauf Avenue with 29 parking spaces being located on the 1st floor level and accessed via Chateau Terrace.

Following discussion, Mr. Gill moved to approve the request based on the resolution. The motion was seconded by Mr. Davis and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

ATTACHMENTS:

- SP-2025-03A signed resolution 101625 (PDF)

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

TOWN OF AMHERST
PLANNING BOARD
RELIEF OF CONDITIONS OF SITE PLAN APPROVAL RESOLUTION
SP-2025-03_A

PETITIONER

Benderson Development Co.
570 Delaware Avenue
Buffalo, NY 14202

PROPERTY LOCATION

4548 & 4564 Main St. and 17 Fruehauf Ave.

OCT 23 2025 PM2

WHEREAS, the Town of Amherst Planning Board on Thursday, October16, 2025 considered a request for relief of a condition of Site Plan Approval for a 12,285 sq. ft., 1 story single tenant retail building with parking for 74 vehicles, and

WHEREAS, the Planning Board reviewed the documentation for the proposed relief, 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 request for relief of a condition of site plan approval is consistent with the development plan if one is required.

B. The request for relief of a condition of site plan approval is consistent with the purpose and specific requirements of the Zoning Ordinance and generally consistent with the policies of the Comprehensive Plan.

C. The request for relief of a condition of site plan approval is consistent with all other applicable laws.

D. Pursuant to Local Law #3-82, as amended, the Planning Board has issued a Negative Declaration for the proposed project on September 25, 2025 the requirements of SEQR are complete.

NOW THEREFORE BE IT RESOLOVED that the Planning Board, in accordance with Section 8-7 of the Zoning Ordinance approves the request to rescind condition number 11 from their resolution of approval dated September 25, 2025;

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 from their approval of September 25, 2025:

1. That the consideration of signs is specifically excluded from this approval as they require a separate review and approval by the Town.

Attachment: SP-2025-03A signed resolution 101625 (31002 : SP-2025-03_A, 4548 & 4564 Main Street & 17 Fruehauf Avenue)

TOWN OF AMHERST
PLANNING BOARD
RELIEF OF CONDITIONS OF SITE PLAN APPROVAL RESOLUTION
SP-2025-03_A

PETITIONER

Benderson Development Co.

PROPERTY LOCATION

4548 & 4564 Main St. and 17 Fruehauf Ave.

OCT 23 2025 PM2:

2. That all dumpsters/trash containers and all mechanical equipment, utility structures, multiple meter boards, generators, and similar appurtenances, including those which are mounted on any part of a primary structure shall be appropriately screened with a fence, wall, and/or landscaping. Provide gate on dumpster enclosure that shall be closed whenever dumpster is not being serviced, enclosure shall be high enough to screen the dumpster(s) within.

3. That as-built surveys, including location of utilities, be provided to the Engineering Department prior to issuance of a Certificate of Occupancy by the Building Department.

4. That the properties located at 4548 & 4564 Main St. and 17 Fruehauf Ave. be merged into a single parcel.

5. That the concern relating to the use of open trench drains in the Town of Amherst Engineering Department – Sanitary Division's letter dated August 20, 2025 be addressed to the satisfaction of that division.

6. That the documents in the Town of Amherst Engineering Department – Engineering Services Division's letter dated September 25, 2025 be provided to that division prior to the issuance of plumbing permits or certificate of occupancy as applicable.

7. That the requirement to relocate signage stipulated in the Town of Amherst Traffic Safety Board's letter dated September 9, 2025 be addressed to the satisfaction of that Board.

8. That an address plan be provided and approved as requested in the Amherst Fire Chief's Association letter dated September 8, 2025.

9. The building must comply with §510 of the 2020 NYS Fire Code for Emergency Responder Radio Coverage as indicated in the Building Department letter dated August 14, 2025.

10. That the petitioner request permission from the New York State Department of Transportation (NYSDOT) to install a bulb-out at the intersection of Main Street and Fruehauf Avenue in the currently stripped area, and if permitted by NYSDOT the petitioner constructs the bulb-out and any associated improvements and obtain the necessary permits from the NYSDOT.

Attachment: SP-2025-03A signed resolution 101625 (31002 : SP-2025-03_A, 4548 & 4564 Main Street & 17 Fruehauf Avenue)

TOWN OF AMHERST
PLANNING BOARD
RELIEF OF CONDITIONS OF SITE PLAN APPROVAL RESOLUTION
SP-2025-03_A

PETITIONER	PROPERTY LOCATION
Benderson Development Co.	4548 & 4564 Main St. and 17 Fruehauf Ave.

OCT 23 2025 PM2

The foregoing resolution was adopted by the Town of Amherst Planning Board, October 16, 2025; moved by Gill; seconded by Davis; ayes 5; noes 0; absent 2 (Penberthy, Raffaele).

Michael J. Chmiel, Planning Board Chair

10/23/25
Date

SM/ac
X:\Current_Planning\Files\Site Plans\2025\SP-2025-03_A_(4548_&_4564_Main_St_&_17_Fruehauf_Ave)_2025\SP-2025-03_A_resolution_101625.doc

cc: Commissioner of Building
Town Engineer
Fire Chiefs
Traffic/Safety
Highway Superintendent
ECDEP
NYSDOT
Chris Wood, Carmina Wood Design, 80 Silo City Row, Buffalo, NY 14203
James Boglioli, Benderson Development, 570 Delaware Avenue, Buffalo, NY 14202

Approved Plan: James Allen Rumsey, Architect
Received: September 11, 2025

Attachment: SP-2025-03A signed resolution 101625 (31002 : SP-2025-03_A, 4548 & 4564 Main Street & 17 Fruehauf Avenue)

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

TABLED

Meeting: 10/16/25 06:30 PM
Department: Planning
Category: Subdivisions & Relief from Conditions
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 30597 A

PLANNING BOARD ITEM (ID # 30597)

Final Plat Review for a 23-Lot Subdivision "Park Gardens", SUB-2025--01_FP (AKA SP-2024-05_A)

Property located at 4774-4780 Sheridan Drive
4780 Sheridan Drive, Petitioner

Proposed subdivision of 5.03 acres into 23 parcels comprised of eleven (11) 2-unit townhome buildings with attached garages (22 units) and a common area lot along with the site, utility & lighting improvements. Number of units, and layout/location of buildings, drive and stormwater management practice remain the same as the previously-approved Site Plan (SP-2024-05.)

As part of the Preliminary Plat Approval, the Planning Board granted waivers to certain subdivision standards prior to taking action on the Preliminary Plat. The requested waivers to §204 of Town Code relate to design standards for the private street include:

- §204-3-2-4(1) – not providing required sidewalks on both sides of the private street,
- §204-3-2-4(1) – not providing required planting strips on both sides of the private street,
- §204-3-2-4 G – not providing required upright curbs on the private street, and
- §204-3-2-4A(7)(e) – not continuing the property lines to the centerline of the private roadway

On April 15, 2025 the Zoning Board of Appeals granted the following area variances:

- SECTION: 3-9-2B(2) (lot area)
- SECTION: 3-9-2B(2) (lot width)
- SECTION: 3-9-2B(2)(front setback)
- SECTION: 3-9-2B(2) (rear setback)
- SECTION: 3-9-2B(2) (side yard)
- SECTION: 3-9-2B(2)(building coverage

September 25, 2025

Following discussion, Ms. Penberthy to adjourn the proposal to the October Planning Board meeting. The motion was seconded by Mr. Gill and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

October 16, 2025

Following discussion, Mr. O'Rourke moved to adjourn the proposal until the required documents are received by the Planning Department. The motion was seconded by Ms. Kahn and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

HISTORY:

09/25/25	**Planning Board**	**ADJOURNED**	**Next: 10/16/25**

RESULT:	**ADJOURNED [UNANIMOUS]**	**Next: 11/20/2025 6:30 PM**
MOVER:	Jonathan O'Rourke, Board Member	
SECONDER:	Carrie H. Kahn, Board Member	
AYES:	Chmiel, Davis, Gill, Kahn, O'Rourke	
ABSENT:	Brittany Lee Penberthy, Joseph P. Raffaele Jr.	

Amherst Planning Board
5583 Main Street
Williamsville, NY 14221

ADOPTED

Meeting: 10/16/25 06:30 PM
Department: Planning
Category: Miscellaneous
Prepared By: Amy Carrato
Initiator: Dan Howard
Sponsors:
DOC ID: 30976

PLANNING BOARD ITEM (ID # 30976)

2026 Planning Board Meeting Calendar

Following discussion, Mr. Gill moved to approve the proposed 2026 meeting schedule with a condition that if any of the dates fall on a Buffalo Bill's game the Board considers rescheduling the meeting. The motion was seconded by Mr. Chmiel and carried. Ayes 5, Noes 0, Absent 2 (Penberthy, Raffaele).

ATTACHMENTS:

- 2026 draft Calendar (PDF)

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

Vote #1 2026 Planning Board Meeting Schedule

MOTION:
APPROVE ____ BY _____ 2nd _____ VOTE _____
DENY ____
ADJOURN ____

	FOR	AGAINST	ABSTAIN		FOR	AGAINST	ABSTAIN
CHMIEL				O'ROURKE			
DAVIS				PENBERTHY			
GILL				RAFFAELE			
KAHN							

DRAFT
2026
Schedule of Planning Board Meetings

Note:

1. A pre-application meeting is required with the Planning Department before a submittal will be accepted. Submissions will not be accepted at a pre-application meeting.
2. **A submittal appointment is required.** When scheduling an appointment, please let the Planning Department know how many petitions you are intending to submit. At least one-half hour per submittal is required.
3. On-time submission does not necessarily guarantee a place on the next month's agenda. You will be notified before the meeting if your project has been placed on the agenda.

Submittal Date **Monday 3 pm**	**Planning Board Meeting** **Thursday 6:30 pm**
11/24/2025	1/15/2026
12/15/2025	2/19/2026
1/20/2026 (Tuesday)	3/19/2026
2/17/2026 (Tuesday)	4/16/2026
3/23/2026	5/21/2026
4/20/2026	6/18/2026
	No July meeting
6/22/2026	08/20/2026
7/13/2026	09/17/2026
8/17/2026	10/15/2026
9/21/2026	11/19/2026
	No December meeting
11/23/2026	01/21/2027
12/14/2026	2/18/2027

5583 Main Street • Williamsville • New York • 14221 • (716) 631-7051 • Fax (716) 631-7152

Attachment: 2026 draft Calendar (30976 : 2026 Planning Board Meeting Calendar)