



**GUILDERLAND ZONING BOARD**  
**ZONING BOARD OF APPEALS MEETING**  
**P A C K E T**  
**APRIL 21, 2021**  
**07:00 PM**

**A G E N D A**  
**GUILDERLAND ZONING BOARD**  
**ZONING BOARD OF APPEALS MEETING**  
*APRIL 21, 2021*  
*07:00 PM*

1. Chairman's Welcome

2. Continued Cases

1. 4773 Western Turnpike

Continuation of a public hearing from February 17th for a special use permit for the expansion of a self-storage facility.

A. New Application Materials

Engineering Review Comments, Architectural Renderings, Fire Truck Movement Plan, Revised Site Plan, Final Delaware Engineering Letter, Stormwater Report & SWPPP

Attachment: [Engineering Review Comments](#)

Attachment: [Architectural Renderings](#)

Attachment: [Revised Site Plan](#)

Attachment: [Fire Apparatus Turn Plan](#)

Attachment: [Stormwater Management Report](#)

Attachment: [SWPPP](#)

Attachment: [Final Delaware Letter](#)

B. Town Notice

## Legal Notice

Attachment: [Legal Notice](#)

### 3. New Cases

#### 1. 6792 Westfall Road

Area variance to permit the construction of a storage in building in a front yard exceeding 15ft in height

#### A. Application

Application, Narrative, Architectural Drawings & Site Plan

Attachment: [Application](#)

Attachment: [Architectural Drawings](#)

Attachment: [Narrative](#)

Attachment: [Site Plan](#)

#### B. Town Notice

Legal Notice & Mailing List

Attachment: [Legal Notice](#)

Attachment: [Mailing List](#)

2. Twenty West Drive

Public hearing for a special use permit for the construction of a mixed use building.

A. Application Materials

Application, SEAF, Narrative, Site Plan, Stormwater Report, SWPPP

Attachment: [Application](#)

Attachment: [SEAF](#)

Attachment: [Narrative](#)

Attachment: [Site Plan](#)

Attachment: [Stormwater Report](#)

Attachment: [SWPPP](#)

B. Town Notice

Legal Notice & Mailing List

Attachment: [Legal Notice](#)

Attachment: [Mailing List](#)

C. Other Interested Agencies

Guiderland Fire Department, Albany County Planning Board & Town

Planning Board

Attachment: [Guilderland Fire Department](#)  
Attachment: [Albany County Planning Board](#)  
Attachment: [Town Planning Board](#)

#### 4. Minutes

#### 5. Signs

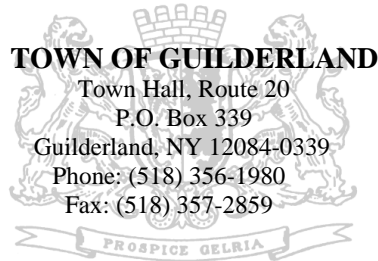
##### 1. 100 Mariposa Lane

3'x5' temporary construction sign for Clover Pond Winery

Attachment: [Application](#)

## General Attachments

[- Agenda](#)



**PETER G. BARBER**  
**SUPERVISOR**

**THOMAS REMMERT**  
**CHAIRMAN**  
**ZONING BOARD**

**ZONING BOARD**

**MEETING NOTICE**

**Wednesday, April 21, 2021**

**7:00 PM**

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**770 Walden's Pond Road – Area Variance – Susan Hammerle**

- Continuation of a public hearing for an area variance to permit the construction of a single family dwelling beyond the safe setback

**4773 Western Turnpike – Special Use Permit/Variance – Metro Movers**

- Continuation of a public hearing for a special use permit/variance to permit the expansion of a self-storage facility

**6792 Westfall Road – Area Variance – Kyle Bisnett**

- Public hearing for an area variance to permit the construction of a storage building in a front yard exceeding 15ft in height

**Twenty West Drive – Special Use Permit/Variance – Michael Davison**

- Public hearing for a special use permit/variance to permit the construction of a mixed-use building

PARTNERS  
THOMAS C. ANDRESS, P.E.  
JOSEPH J. BIANCHINE, P.E.  
LUIGI A. PALLESCI, P.E.

**ABD ENGINEERS, LLP**  
411 Union Street  
Schenectady, NY 12305  
518-377-0315 Fax 518-377-0379  
www.abdeng.com

DEDICATED  
RESPONSIVE  
PROFESSIONAL

April 12, 2021

**Re: A-Metro Self Storage  
4773 Western Turnpike  
Town of Guilderland  
Project # 4281B**

---

Jacqueline M. Coons  
**Guilderland Town Hall**  
5209 Western Turnpike  
Guilderland, NY 12084

Dear Jacqueline:

In response to the review comments provided by Jesse Fraine (Delaware Engineering) in his letter dated April 1, 2021 (in *italics*) we respectively respond (in **bold**) as follows:

- Please provide pre and post runoff discharge analysis based on design points where the runoff leaves the site. It appears that area Pre 1 discharges to the north of the site and in the post condition, both Post 1A and Post 2A flow to the north and may have a higher discharge than Pre 1. Please review.*

**Additional tables have been added to the stormwater management report which summarize the peak discharge rates to each design point. Flow rates to each point are reduced in the post-development condition.**
- Have any soil tests/test pits been conducted to document the elevation of the seasonally high water table in the vicinity of the proposed bioretention areas?*

**Test pits shall be conducted prior to construction of the bioretention areas. A 6" compacted clay bottom is proposed for the bioretention areas, however if 2' of groundwater separation cannot be met, an HDPE flexible geomembrane liner will be installed; this is now indicated on the bioretention detail.**
- It appears that the roof runoff from the new building closest to US-20 is not being treated. It also appears that this area is not included in the pre and post runoff analysis. Please review.*

**The roof drain for the 6,100± SF building is now directed into the existing bioretention area. The area of the new building was previously occupied by an existing house which contributed runoff to the adjacent bioretention area.**

4. *It appears that the runoff from the new building closest to US-20 is discharging to an existing quantity control basin. Provide analysis showing that this additional flow can be properly controlled by the basin.*

**The roof drain for the 6,100± SF building is now directed into the existing bioretention area. The building and adjacent pavement area will generate approximately 0.3 CFS of flow during the 100-year storm (an increase of 0.2 CFS from existing conditions). The capacity of the adjacent bioretention and infiltration areas are 1,920± CF and 6,033± CF, respectively; adequate capacity exists to handle the additional flow.**

5. *The Site Plan indicates that the pea stone diaphragm is 2 ft wide. Please revise\* the detail to indicate this width.*

**The detail has been revised.**

6. *Stone level spreaders are proposed at the outlet from the bioretention areas. Please provide a detail for the level spreaders.*

**A level spreader detail has been added.**

7. *Please include and label all existing stormwater facilities on the plans.*

**The existing stormwater facilities are now labeled.**

8. *The soil hydraulic conductivity for bioretention media in the calculations does not match the exfiltration rate in the HydroCAD model. Please review.*

**The HydroCAD model has been revised accordingly.**

9. *The bioretention nodes in the HydroCAD model should not allow inflow to enter the stone layer or soil media prior to entering the ponding volume. The exfiltration outlet invert should be the same elevation as the invert of the ponding volume. Please revise.*

**The exfiltration outlet invert has been revised to match the ponding invert elevation.**

10. *It is not clear if the pretreatment area is being included in the required filter area. Please make sure that the pretreatment area is not included in the filter area. Additionally, underdrains are not necessary in the pretreatment areas. Please review and clarify.*

**The pretreatment area is not included in the filter area. The underdrains have been revised to terminate outside of the pretreatment areas.**

11. *Please provide calculations to show that the drainage system can safely convey the 100-year event through the site.*

**Any potential runoff from the 100-year event which does not enter the catch basin system will sheet flow across the asphalt pavement and enter the perimeter stone diaphragm. All runoff is controlled through the site.**

12. Please make sure that proposed locations for silt fence during construction are clearly indicated on the plans. Additionally, the height of the silt fence filter fabric should be a minimum of 18" above grade per the New York State Standards and Specifications for Erosion Control.

**The location of proposed silt fencing is now shown on Sheet 2. The detail has been revised to show the height of the filter fabric at a minimum of 18".**

13. Were soil tests completed to properly size the new septic system? Has the system been fully designed? Please include details on the plans.

**The proposed septic system is to be located near the former septic system, which functioned adequately. A test pit and percolation test shall be conducted prior to construction of the septic system. Full design details are now included on Sheet 3 of the plans.**

Enclosed for this submission are the following items:

1. Ten (10) copies of the Site Plans (Rev. #6: 4/12/21)
2. Ten (10) copies of the Fire Truck Turning Exhibit
3. Ten (10) copies of the Architectural Design Examples
4. One (1) copy of the SWPPP (Rev. 4/12/21).
5. One (1) copy of the SMR (Rev. 4/12/21).

All enclosed documents will be emailed to you & Ken Kovalchick. We would greatly appreciate being scheduled for the April 21 ZBA meeting. Should you have any questions or need anything further, please do not hesitate to contact me.

Very truly yours,

**ABD ENGINEERS, LLP**

Joseph J. Bianchine, P.E.  
Partner

JJB:dmk

encl.

cc: Rick Ramsey w/encl. (via email)

4281B-2021-04-12

**ABD ENGINEERS, LLP**

**ARCHITECTURAL DESIGN  
EXAMPLES**

FOR

A-METRO ALTAMONT SELF STORAGE  
4773 Western Turnpike  
Town of Guilderland  
Albany County, New York

Prepared For:

RJR Units LLC  
4773 Western Turnpike  
Guilderland, NY 12009

April 12, 2021

Project No. 4281B

Prepared By:

Joseph J. Bianchine, P.E.  
ABD Engineers, LLP  
411 Union Street  
Schenectady, NY 12305  
(518) 377-0315



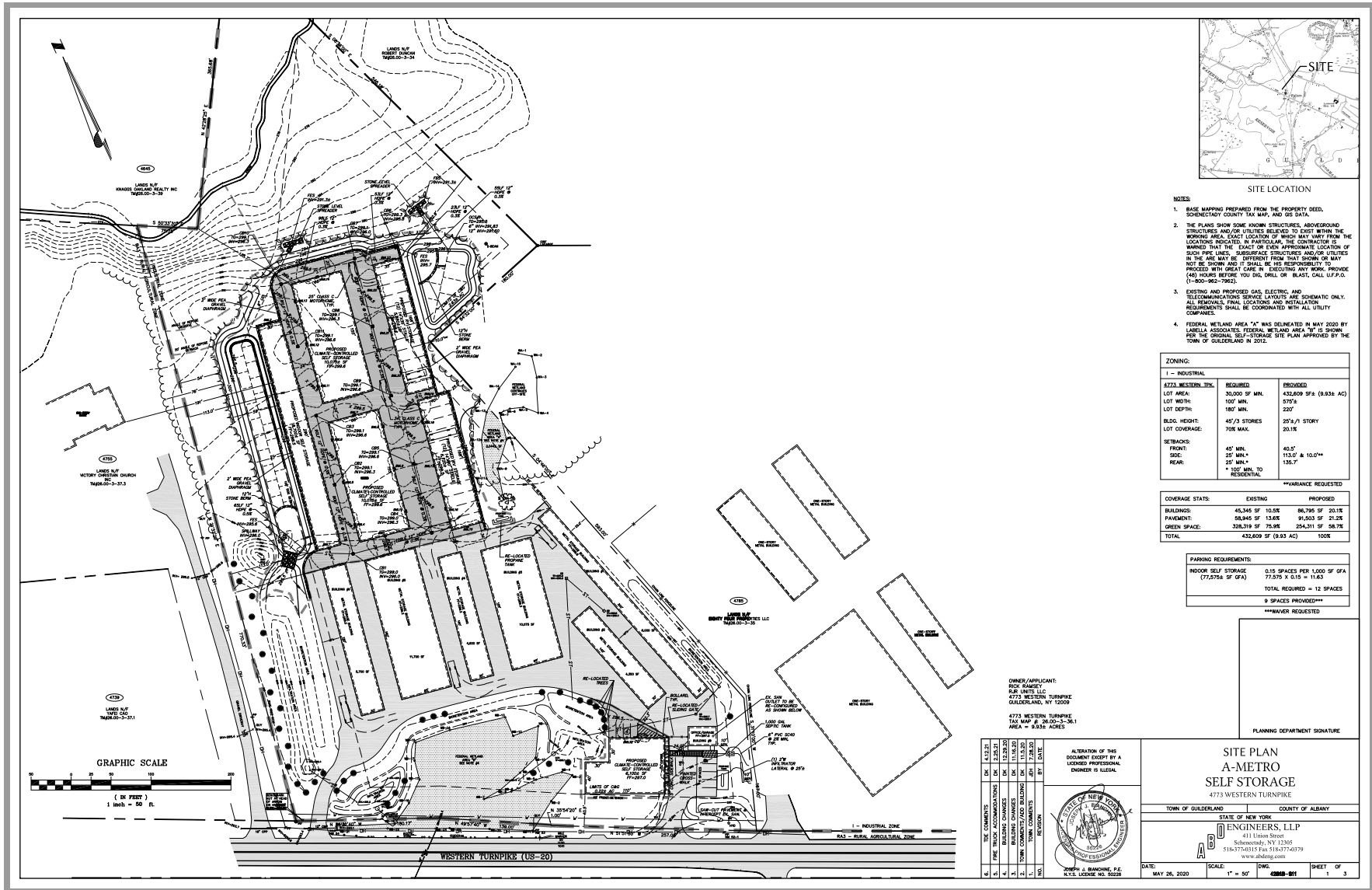
**Architectural design for the one (1) 8,700± SF drive-up storage building and two (2) proposed 10,075± SF climate-controlled storage buildings (rear of site) intends to match existing storage buildings.**



**Architectural design for the one (1) 6,100± SF climate-controlled storage building (front of site) intends to blend the styles of the existing office building and existing storage buildings.**



**Architectural design for the two (2) RV storage canopies (rear of site) intends to be post and beam with open walls. Roof intends to be pitched away from the drive aisles.**



- NOTES:**
1. BASE MAPPING PREPARED FROM THE PROPERTY DEED, SHERBROOK COUNTY TAX MAP, AND GIS DATA.
  2. THE PLANS SHOW SOME KNOWN STRUCTURES, ABOVEGROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST WITHIN THE WORKING AREA. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPE LINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN ON THIS PLAN AND IT SHALL BE HIS RESPONSIBILITY TO MAY PROCEED WITH GREAT CARE IN EXCAVATING ANY WORK. ADVISE (48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL U.F.P.O. (1-800-952-7862).
  3. EXISTING AND PROPOSED GAS, ELECTRIC, AND TELECOMMUNICATIONS SERVICE LAYOUTS ARE SCHEMATIC ONLY. ALL REMOVALS, FINAL LOCATIONS AND INSTALLATION REQUIREMENTS SHALL BE COORDINATED WITH ALL UTILITY COMPANIES.
  4. FEDERAL WETLAND AREA "A" WAS DELINEATED IN MAY 2020 BY LABELLA ASSOCIATES FEDERAL WETLAND AREA "A" IS SHOWN PER THE ORIGINAL SELF-STORAGE SITE PLAN APPROVED BY THE TOWN OF GULDERLAND IN 2012.

**ZONING:**

4773 WESTERN TURNPIKE	REQUIRED	PROPOSED
LOT AREA:	30,000 SF MIN.	432,609 SF'S (9.93x AC)
LOT WIDTH:	100' MIN.	575'6"
LOT DEPTH:	180' MIN.	220'
BLDG. HEIGHT:	45' STORES	20'5" / STORY
LOT COVERAGE:	70% MAX.	20.1%
SETBACKS:		
FRONT:	45' MIN.	40.3'
SIDE:	25' MIN.	115.0' & 10.0'*
REAR:	25' MIN.	135.3'
		115' MIN. TO RESIDENTIAL

\*\*\*VARIANCE REQUESTED

**COVERAGE STATS:**

	EXISTING	PROPOSED
BUILDINGS:	45,345 SF 15.3%	86,795 SF 20.1%
PARKING:	18,845 SF 5.8%	95,583 SF 21.8%
GREEN SPACE:	326,319 SF 79.9%	254,311 SF 58.7%
TOTAL:	432,609 SF (9.93 AC)	100%

**PARKING REQUIREMENTS:**

INDOOR SELF STORAGE	0.15 SPACES PER 1,000 SF GFA
(572,076 SF GFA)	77,370 x 0.15 = 11,606
TOTAL REQUIRED = 12 SPACES	
9 SPACES PROVIDED***	
***VARIANCE REQUESTED	

OWNER/APPLICANT:  
 ROCK MARKET  
 P.O. BOX 110  
 4773 WESTERN TURNPIKE  
 GULDERLAND, NY 12090

4773 WESTERN TURNPIKE  
 TAX MAP # 26.00-2-36.1  
 AREA = 9.93 ACRES

ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS ILLEGAL.

STATE OF NEW YORK  
 SEAL OF THE STATE ENGINEERING BOARD  
 JOSEPH A. BIANCHI, P.E.  
 N.Y.S. LICENSE NO. 5039

**SITE PLAN  
 A-METRO  
 SELF STORAGE**

4773 WESTERN TURNPIKE  
 TOWN OF GULDERLAND COUNTY OF ALBANY

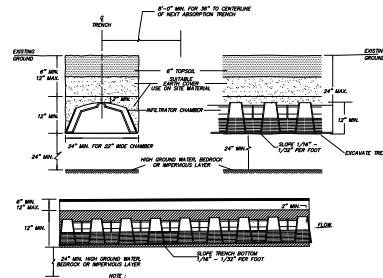
STATE OF NEW YORK  
**ENGINEERS, LLP**  
 411 Union Street  
 Schenectady, NY 12303  
 516.774.0112 fax 516.774.0179  
 www.abteng.com

DATE: MAY 26, 2020 SCALE: 1" = 50' DWG: 2000-011 SHEET OF 1 3

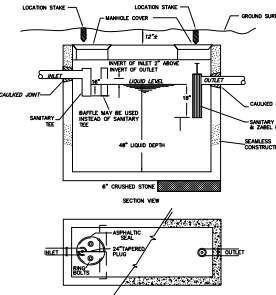


**SHALLOW TRENCH WASTEWATER DISPOSAL SYSTEM REQUIREMENTS:**

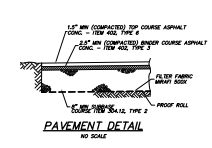
SEPTIC DESIGN :	
<b>DESIGN PARAMETERS :</b>	
NUMBER OF EMPLOYEES	2
DESIGN FLOW RATE	15 GPD/EMPLOYEE
TOTAL DESIGN FLOW	30 GPD
DESIGN TRENCH WIDTH	3.0 FT.
DESIGN FLOW RATE	17.7 MINUTES @ 24"
DESIGN RATE	17.7 IN. MINUTES
<b>DESIGN :</b>	
APPLICATION RATE	0.8 GPD/S.F.
AREA REQUIRED	34 S.F.
TRENCH LENGTH MIN.	17 L.F.
TRENCH LENGTH MAX.	1 & 8 20'
NUMBER OF TRENCHES	1
TOTAL TRENCH LENGTH PROVIDED	25 L.F.



**TYPICAL SANITARY INFILTRATOR ABSORPTION TRENCH DETAIL**  
NO SCALE  
MODEL: CULTEC CONTRACTOR 100 CHAMBER OR EQUAL



**GUARDIAN 1,000 GAL. SEPTIC TANK  
PRECAST CONCRETE SEPTIC TANK DETAIL**  
NO SCALE



**PAVEMENT DETAIL**  
NO SCALE

**SHALLOW TRENCH WASTEWATER DISPOSAL SYSTEM COMPONENT NOTES :**

INSTALLATION OF ALL SANITARY DISPOSAL SYSTEM COMPONENTS SHALL BE CONSIDERED IN ENTRY. RESISTANCE TO THE EXISTING SET POINTS BY THE NEW CONSTRUCTION OF HEALTH, ALL. THE TREATMENT HANDLING, HOLDING SYSTEMS AND ANY APPLICABLE TANK SHALL BE CONSIDERED IN ENTRY. RESISTANCE TO THE EXISTING SET POINTS BY THE NEW CONSTRUCTION OF HEALTH, ALL. THE TREATMENT HANDLING, HOLDING SYSTEMS AND ANY APPLICABLE TANK SHALL BE CONSIDERED IN ENTRY.

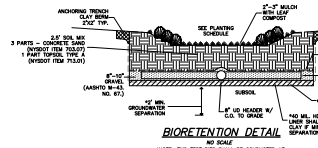
**WASTEWATER DISPOSAL SYSTEM PIPING**  
A. ALL PIPING SHALL BE 4" DIA. PVC, 15' MIN. SLOPE - 1/8" PER FT. (PVC, SCH 40 OR CAST IRON) AS PER THE MANUFACTURER'S RECOMMENDATIONS. ALL JOINTS SHALL BE GASKETED. ALL PIPING SHALL BE 4" DIA. PVC, 15' MIN. SLOPE - 1/8" PER FT. (PVC, SCH 40 OR CAST IRON) AS PER THE MANUFACTURER'S RECOMMENDATIONS. ALL JOINTS SHALL BE GASKETED. ALL PIPING SHALL BE 4" DIA. PVC, 15' MIN. SLOPE - 1/8" PER FT. (PVC, SCH 40 OR CAST IRON) AS PER THE MANUFACTURER'S RECOMMENDATIONS. ALL JOINTS SHALL BE GASKETED.

**SEPTIC TANK**  
1. SEPTIC TANKS SHALL BE SITUATED AT LEAST 10 FEET FROM ANY FOUNDATION, DRIVE, WALKWAY, OR OTHER STRUCTURE. SEPTIC TANKS SHALL BE SITUATED AT LEAST 10 FEET FROM ANY FOUNDATION, DRIVE, WALKWAY, OR OTHER STRUCTURE. SEPTIC TANKS SHALL BE SITUATED AT LEAST 10 FEET FROM ANY FOUNDATION, DRIVE, WALKWAY, OR OTHER STRUCTURE.

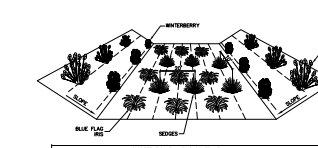
**ABSORPTION FIELD**  
1. ALL MATERIALS SHALL BE PERMITTED TO BE USED IN THE ABSORPTION FIELD. ALL MATERIALS SHALL BE PERMITTED TO BE USED IN THE ABSORPTION FIELD. ALL MATERIALS SHALL BE PERMITTED TO BE USED IN THE ABSORPTION FIELD.

**WASTEWATER DISPOSAL SYSTEM NOTES :**  
1. THERE SHALL BE NO CHANGE IN THESE PLANS IN ADVANCE OR DURING CONSTRUCTION WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.  
2. NO HEAVY EQUIPMENT, VEHICULAR PARKING OR TRAFFIC SHALL BE ALLOWED WITHIN THE AREA OF THE PROPOSED SYSTEM.  
3. VERIFY NO UNDERGROUND, SHIMMERS, ROOF OUTGROUPTS OR FILLED AREAS EXIST WITHIN THE REQUIRED SYSTEMS.  
4. NO OVERHEAD POWER LINES, NO DUMP PUMP, WATER SYSTEMS, ROOF, FLOOR OR FOOTING DRAINAGE, COILING WIRE, BENCHING DRAINAGE, ETC. SHALL BE CONNECTED TO THE SEWAGE SYSTEM.  
5. DO NOT PERFORM CHEMICAL CLEANING, OILING, PAINTING OR OTHER ACTIVITIES THAT WOULD CONTAMINATE THE ABSORPTION FIELD.  
6. SURFACE OF THE ABSORPTION FIELD SHALL BE MAINTAINED AS TO SHEET DRAINAGE RUNOFF, SURFACE WATER AND FLOODING.  
7. SEE FLOW RESTRICTION AND WATER CONSERVATION PRACTICES.

**CONSTRUCTION INSPECTION**  
1. CONSTRUCTION INSPECTION SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER AND/OR THE TOWN ENGINEER PRIOR TO THE FOLLOWING:  
- PROPOSED FILL AT THE BOUNDARY SITE SPECIFIC TEST MAY BE REQUIRED.  
- PRIOR TO THE INSTALLATION OF ALL SYSTEM COMPONENTS.  
- AFTER FINAL GRADING IS COMPLETE.  
2. CONTRACTOR TO PROVIDE AS-BUILT SETS TO THE ENGINEER.  
3. CERTIFICATION BY A PROFESSIONAL ENGINEER SHALL BE PROVIDED TO THE BUILDING DEPARTMENT UPON COMPLETION OF THE SYSTEM AND PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.



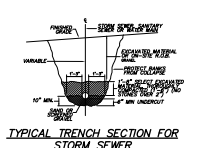
**BIORETENTION DETAIL**  
NO SCALE



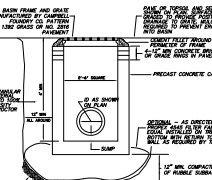
**TYPICAL BIORETENTION PLANTING PLAN**  
NO SCALE



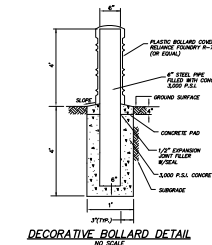
**STONE LEVEL SPREADER DETAIL**  
NO SCALE



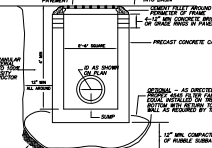
**TYPICAL TRENCH SECTION FOR STORM SEWER**  
NO SCALE



**2'-6" SQUARE PRECAST REINFORCED CONCRETE CATCH BASIN**  
NO SCALE



**DECORATIVE BOLLARD DETAIL**  
NO SCALE



**PCA GRAVEL DIAPHRAGM OFF EDGE OF PAVEMENT DETAIL**  
NO SCALE

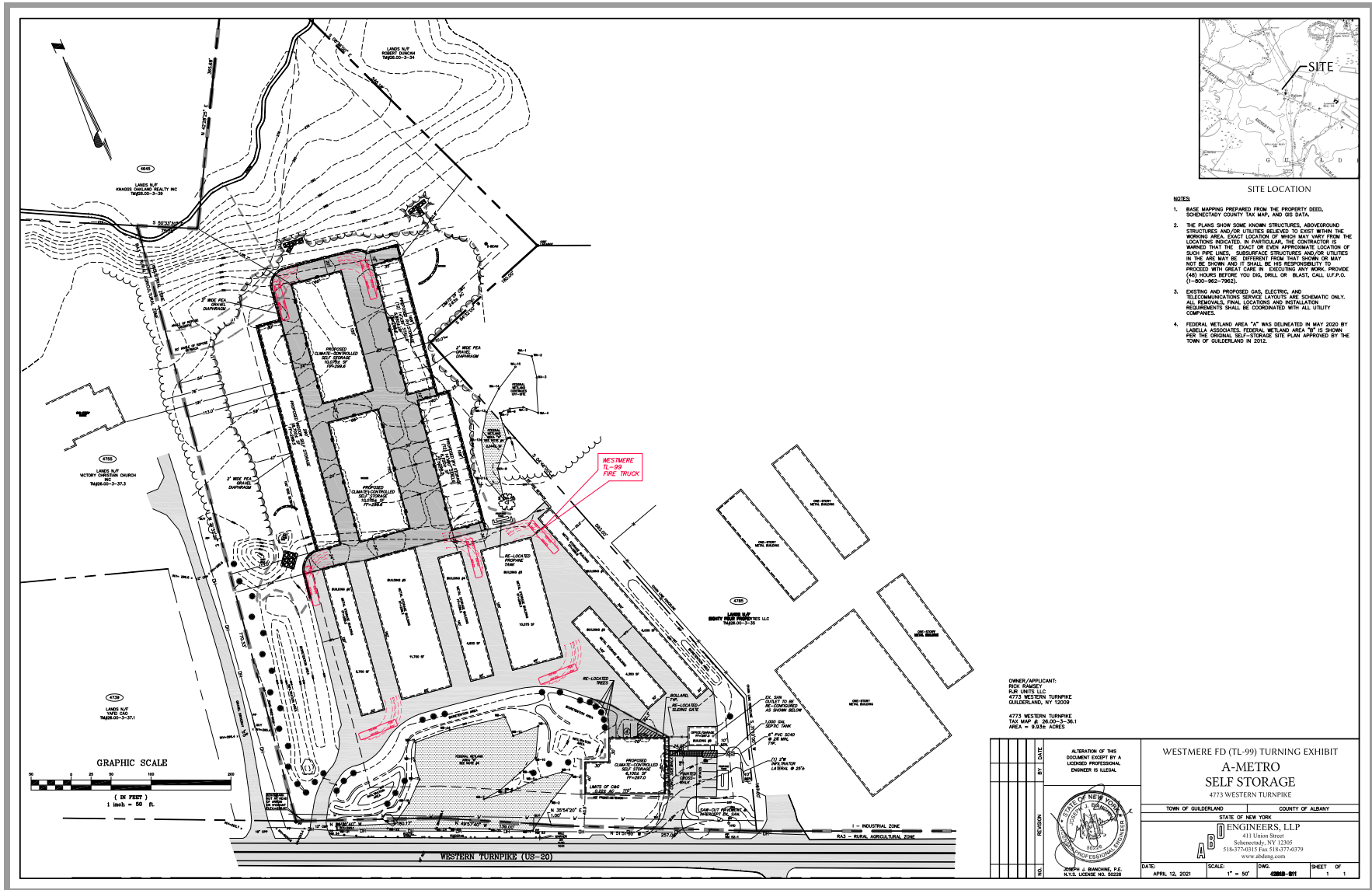
NO.	DATE	BY	REVISION
1.	04.22.20	JK	PRELIMINARY
2.	05.15.20	JK	REVISED PER COMMENTS
3.	06.02.20	JK	REVISED PER COMMENTS
4.	06.10.20	JK	REVISED PER COMMENTS
5.	06.17.20	JK	REVISED PER COMMENTS
6.	06.24.20	JK	REVISED PER COMMENTS

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STATE OF NEW YORK  
COUNTY OF ALBANY  
TOWN OF GUILDERLAND

JOHN A. BIANCHI, P.E.  
11-11 LOCUST ST. SCORR

DATE: MAY 26, 2020  
SCALE: 1" = 50'  
SHEET OF 3



## STORMWATER MANAGEMENT REPORT

FOR

A-METRO ALTAMONT SELF STORAGE  
4773 Western Turnpike  
Town of Guilderland  
Albany County, New York

Prepared For:

RJR Units LLC  
4773 Western Turnpike  
Guilderland, NY 12009

May 15, 2020  
Revised February 19, 2021  
***Revised April 12, 2021***

Project No. 4281B

Prepared By:

Joseph J. Bianchine, P.E.  
ABD Engineers, LLP  
411 Union Street  
Schenectady, NY 12305  
(518) 377-0315

**STORMWATER MANAGEMENT REPORT**

FOR

A-METRO ALTAMONT SELF STORAGE  
4773 Western Turnpike  
Town of Guilderland  
Albany County, New York

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EXHIBIT 2: PRE-DEVELOPMENT DRAINAGE MAP.....	Attached
EXHIBIT 3: POST-DEVELOPMENT DRAINAGE MAP.....	Attached
APPENDIX A: STORMWATER CALCULATIONS.....	Attached

**STORMWATER MANAGEMENT REPORT**

FOR

A-METRO ALTAMONT SELF STORAGE  
4773 Western Turnpike  
Town of Guilderland  
Albany County, New York

**PROJECT LOCATION**

RJR Units LLC is proposing the redevelopment of a 10.6± acre parcel located at 4773 Western Turnpike in the Town of Guilderland, Albany County, New York (see Exhibit 1). The site is bordered on the west by residential houses, on the east by a commercial business, on the north by a stream and on the south by Western Turnpike.

**GENERAL SITE DEVELOPMENT**

The Applicant is proposing to construct additional self-storage buildings as an expansion to the existing facility. Construction includes five (5) storage buildings with associated asphalt pavement, and stormwater management areas. Access to the site will continue to be from Western Turnpike. The existing facility will remain undisturbed and consists of six (6) storage buildings, a house, asphalt pavement, and stormwater management areas.

**SOIL TYPES, GROUNDWATER, AND EXISTING TOPOGRAPHY**

According to the Albany County NRCS soil map, the predominant soil group is Type C, loamy fine sand. The existing site in the area of redevelopment drains southwest to a driveway culvert and north to the existing stream. All runoff ultimately flows to the Watervliet Reservoir.

**STORMWATER MANAGEMENT PLAN**

The Stormwater Management Plan includes the use of bioretention practices to meet Green Infrastructure requirements and water quality volume (WQv) per NYSDEC stormwater regulations. The stormwater management areas will also detain all runoff volumes up to the 100-year storm and control the release such that the post-development peak discharge rates will be less than the pre-development peak discharge rates.

The water quality volume (WQv) required for the site is 9,033± cubic feet. The minimum runoff reduction volume (RRv) required is 2,654± cubic feet. The total RRv provided in the proposed bioretention practices is 4,4421 cubic feet with an additional volume of 4,612± cubic feet being treated. The volume provided meets or exceeds the volume required and therefore meets the stormwater regulations. WQv and RRv calculations are provided in Appendix A. The total required storage volume for the 100-year storm is 28,961± cubic feet and the basins provide 46,332± cubic feet.

**ANALYSIS**

The HydroCAD TR-20 method was utilized for stormwater runoff calculations of the proposed development (See Appendix A). The soil type has been modeled as Type C and the rainfall values used in the calculation are as follows:

1 year = 2.19”, 10 year = 3.65”, and 100 year = 6.11”

**PRE-DEVELOPMENT CONDITIONS (SEE EXHIBIT 2)**

In the pre-development condition, there are three drainage areas. **Pre Area 1** is 1.25± acres and consists of existing woods. The peak runoff rates flowing to the existing stream for the 1, 10, and 100-year storm events are 0.45±cfs, 1.80±cfs, and 4.74±cfs respectively with a time of concentration of 17 minutes and a CN value of 73. **Pre Area 2** is 1.13± acres and consists of existing woods. The peak discharge rates flowing offsite towards the existing culvert for the 1, 10, and 100-year storm events are 0.33±cfs, 1.37±cfs, and 3.63±cfs respectively with a time of concentration of 22 minutes and a CN value of 72. **Pre Area 3** is 1.34± acres and consists of existing rooftop, asphalt and grass areas. The peak discharge rates flowing to the existing bioretention basin for the 1, 10, and 100-year storm events are 2.45±cfs, 5.25±cfs, and 10.08±cfs respectively with a time of concentration of 7 minutes and a CN value of 87.

**POST-DEVELOPMENT CONDITIONS (SEE EXHIBIT 3)**

In the post-development condition, there are three drainage areas as in the pre-development condition.

**Post Area 1A** is 1.03± acres and consists of proposed rooftop, asphalt pavement and grass areas. Runoff sheet flows to catch basins for conveyance to bioretention practice #1. The peak runoff rates generated for the 1, 10, and 100-year storm events prior to treatment are 2.51±cfs, 4.77±cfs, and 8.52±cfs respectively with a minimum time of concentration of 6 minutes and a CN value of 92. Outflow from the practice is restricted through an outlet control and has a grate set 6” above the bottom of the basin. The total peak discharge rates for the 1, 10, and 100-year storm events are controlled to 0.05±cfs, 1.27±cfs, and 2.46±cfs respectively. **Post Area 1B** is 0.16± acres and consists of existing woods. The peak runoff rates continuing to flow to the existing stream for the 1, 10, and 100-year storm events are 0.11±cfs, 0.37±cfs, and 0.92± cfs respectively with a minimum time of concentration of 6 minutes and a CN value of 73.

**Post Area 2A** is 1.96± acres and consists of proposed rooftop, proposed asphalt pavement, existing rooftop, existing pavement, and grass areas. Runoff flows to bioretention practice #2 for treatment. The peak runoff rates for the 1, 10, and 100-year storm events are 4.56±cfs, 8.85±cfs, and 16.03±cfs respectively with a minimum time of concentration of 6 minutes and a CN value of 91. Outflow from the practice is restricted through a culvert set 6” above the bottom of the basin. The total peak discharge rates through the culvert for the 1, 10, and 100-year storm events are controlled to 0.03±cfs, 0.66±cfs, and 3.27±cfs respectively. The total peak discharge rates through the underdrain for the 1, 10, and 100-year storm events are controlled to 0.01±cfs, 0.01±cfs, and 0.02±cfs respectively. **Post Area 2B** is 0.18± acres and consists of existing woods. The peak discharge rates continuing to flow offsite towards the existing culvert for the 1, 10, and 100-year storm events are 0.12±cfs, 0.40±cfs, and 1.00±cfs respectively with a minimum time of concentration of 6 minutes and a CN value of 73.

**Post Area 3** is reduced to 0.44± acres and consists of the remaining existing rooftop and asphalt pavement that drains to the existing bioretention area. The peak runoff rates contributing to the basin for the 1, 10, and 100-year storm events are reduced to 0.65±cfs, 1.56±cfs, and 3.18±cfs respectively with a minimum time of concentration of 6 minutes and a CN value of 83. The existing practice will receive less runoff than originally designed and now provides excess capacity.

**SUMMARY**

Drainage Area	Peak Runoff Generated (cfs)			Peak Discharge (cfs)			Design Point
	1-Year	10-Year	100-Year	1-Year	10-Year	100-Year	
Pre 1	0.45	1.80	4.74	0.45	1.80	4.74	1
Pre 2	0.33	1.37	3.63	0.33	1.37	3.63	2
Pre 3	2.45	5.25	10.08	2.45	5.25	10.08	3
<b>Total Pre</b>	<b>3.23</b>	<b>8.42</b>	<b>18.45</b>	<b>3.23</b>	<b>8.42</b>	<b>18.45</b>	
Post 1A	2.51	4.77	8.52	0.05	1.27	2.46	1
Post 1B	0.11	0.37	0.92	0.11	0.37	0.92	1
Post 2A (U.D.)	4.56	8.85	16.03	0.01	0.01	0.02	1
Post 2A				0.03	0.66	3.27	3
Post 2B	0.12	0.40	1.00	0.12	0.40	1.00	2
Post 3	0.65	1.56	3.18	0.65	1.56	3.18	3
<b>Total Post</b>	<b>7.95</b>	<b>15.95</b>	<b>29.65</b>	<b>0.97</b>	<b>4.27</b>	<b>10.85</b>	
<i>Net Change</i>	<i>4.72</i>	<i>7.53</i>	<i>11.20</i>	<i>-2.26</i>	<i>-4.15</i>	<i>-7.60</i>	

Design Point 1	Discharge to D.P. (cfs)		
	1-Year	10-Year	100-Year
Pre D.P. 1	0.45	1.80	4.74
Post D.P. 1	0.17	1.65	3.40
<i>Net Change</i>	<i>-0.28</i>	<i>-0.15</i>	<i>-1.34</i>

Design Point 2	Discharge to D.P. (cfs)		
	1-Year	10-Year	100-Year
Pre D.P. 2	0.33	1.37	3.63
Post D.P. 2	0.12	0.40	1.00
<i>Net Change</i>	<i>-0.21</i>	<i>-0.97</i>	<i>-2.63</i>

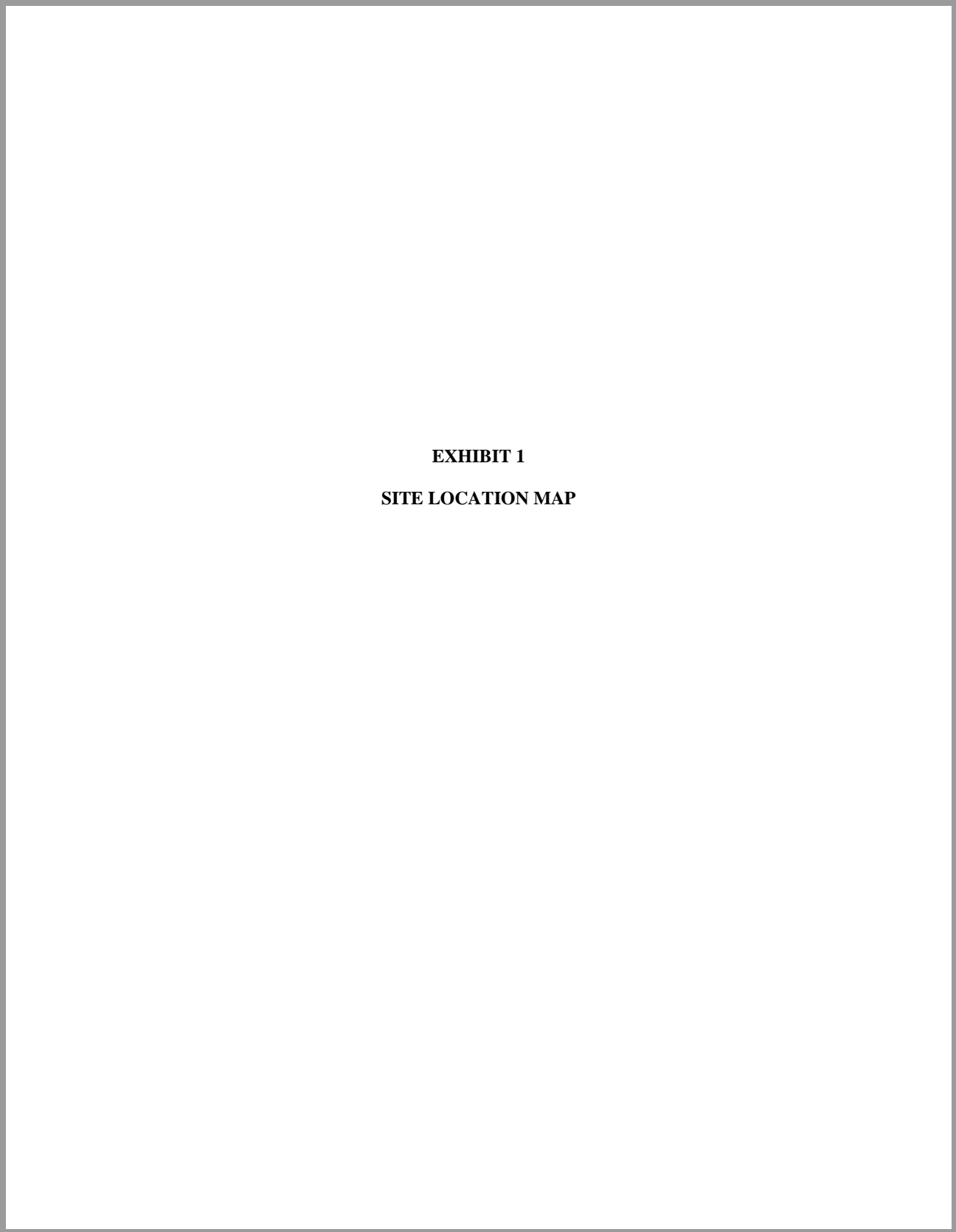
Design Point 3	Discharge to D.P. (cfs)		
	1-Year	10-Year	100-Year
Pre D.P. 3	2.45	5.25	10.08
Post D.P. 3	0.68	2.22	6.45
<i>Net Change</i>	<i>-1.77</i>	<i>-3.03</i>	<i>-3.63</i>

The post-development peak discharge rates are reduced to below pre-development rates. The proposed Stormwater Management Plan will adequately serve the needs of the project, general design intent of NYSDEC, and the Town of Guilderland. The drainage system as designed will function adequately and will not adversely affect adjacent or downstream properties. The statements contained herein are true and correct to the best of my knowledge.

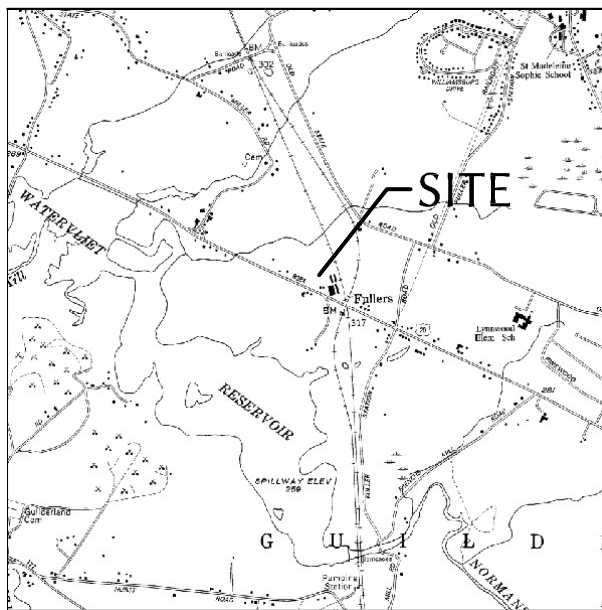


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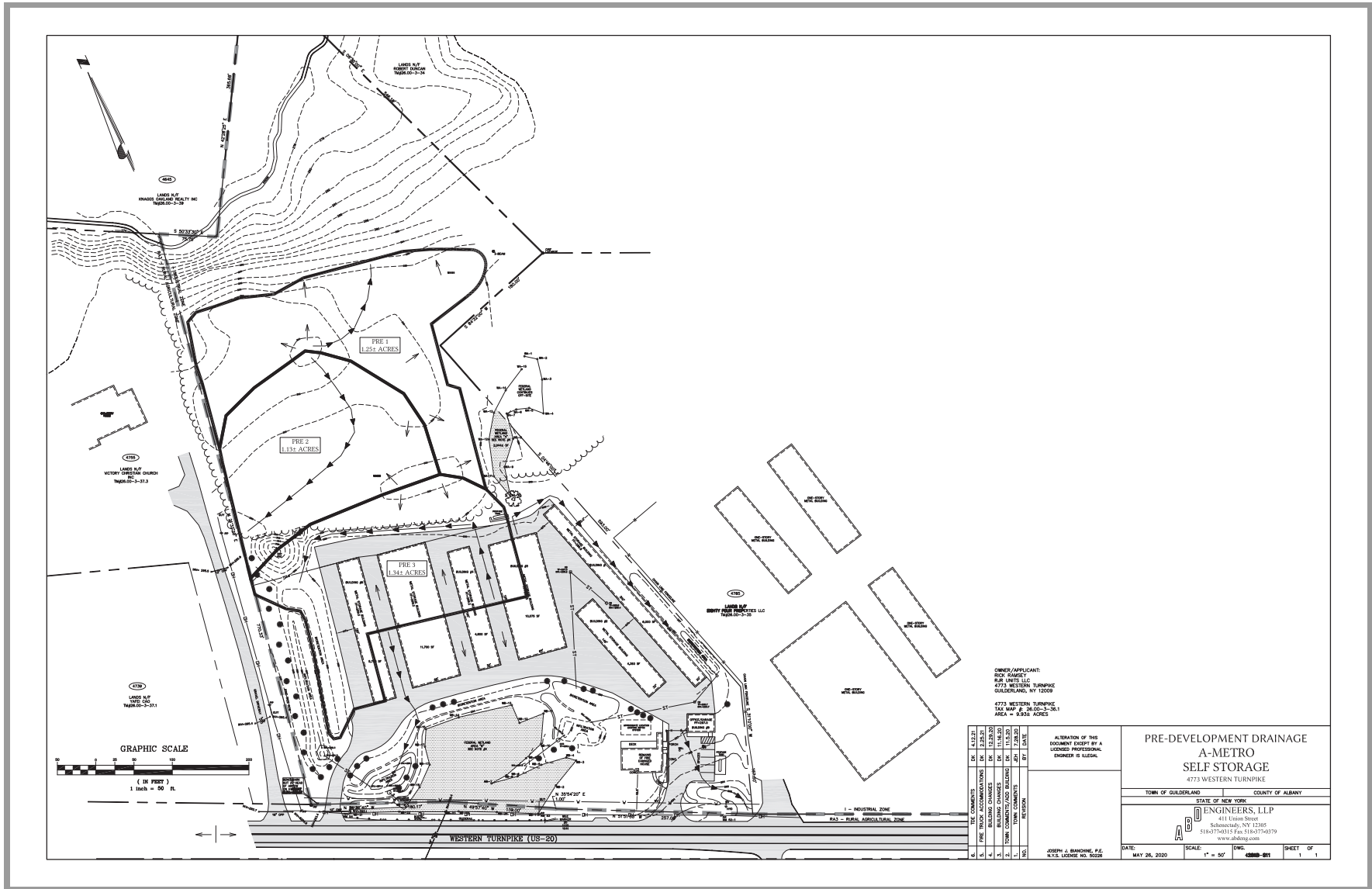
Joseph J. Bianchine, P.E.



**EXHIBIT 1**  
**SITE LOCATION MAP**



**EXHIBIT 2**  
**PRE-DEVELOPMENT DRAINAGE MAP**



OWNER/APPLICANT:  
 RICH RANDEL  
 RICH RANDEL LLC  
 4773 WESTERN TURNPIKE  
 GUILDERLAND, NY 12009  
 4773 WESTERN TURNPIKE  
 TAX MAP # 26.00-3-36.1  
 AREA = 0.814 ACRES

DATE	11/23/17
BY	12/28/18
REVISION	1/7/2019
DATE	1/7/2019
BY	1/7/2019
REVISION	1/7/2019
DATE	1/7/2019
BY	1/7/2019
REVISION	1/7/2019

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS LEGAL.

**PRE-DEVELOPMENT DRAINAGE**  
**A-METRO**  
**SELF STORAGE**  
 4773 WESTERN TURNPIKE

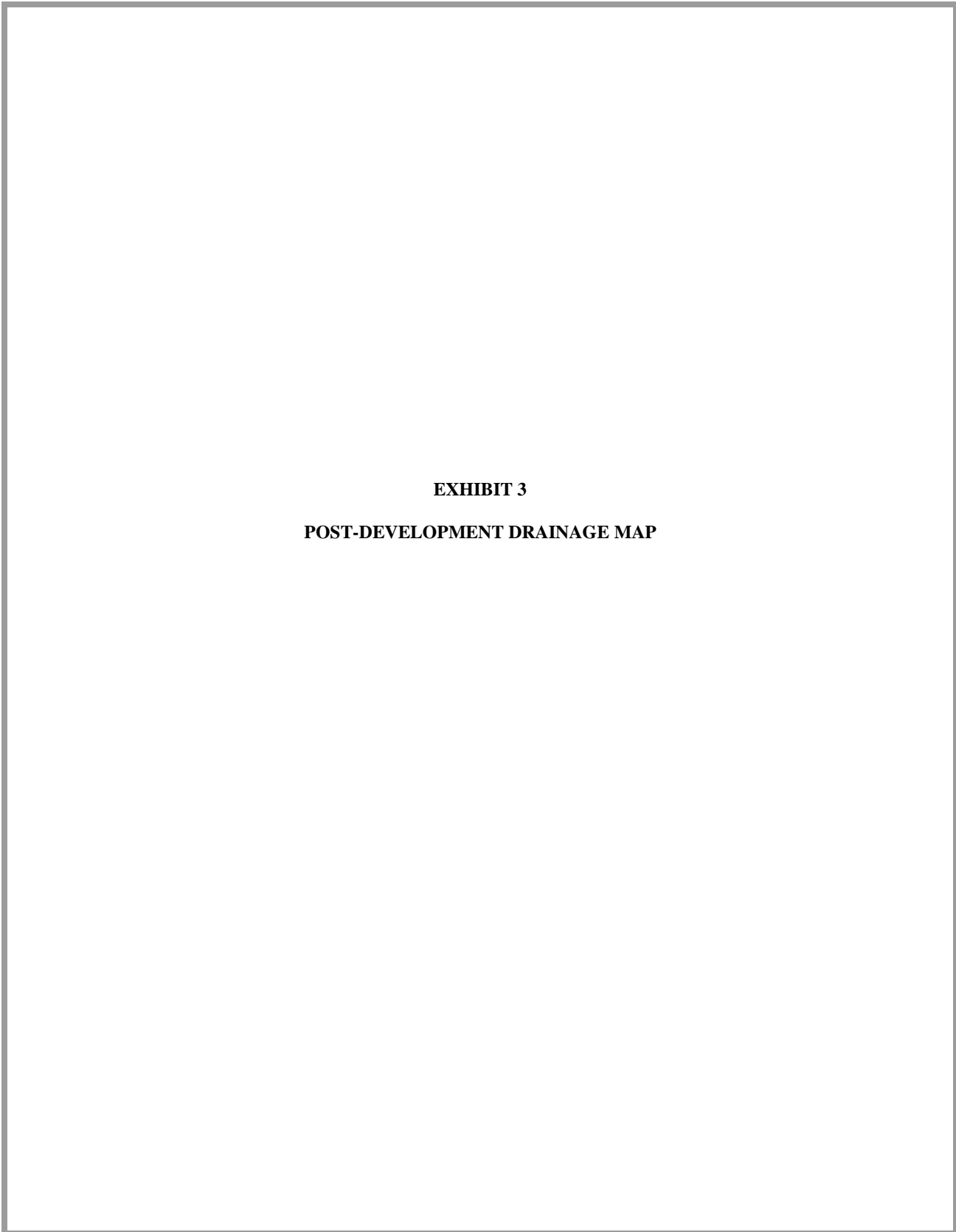
TOWN OF GUILDERLAND COUNTY OF ALBANY

STATE OF NEW YORK

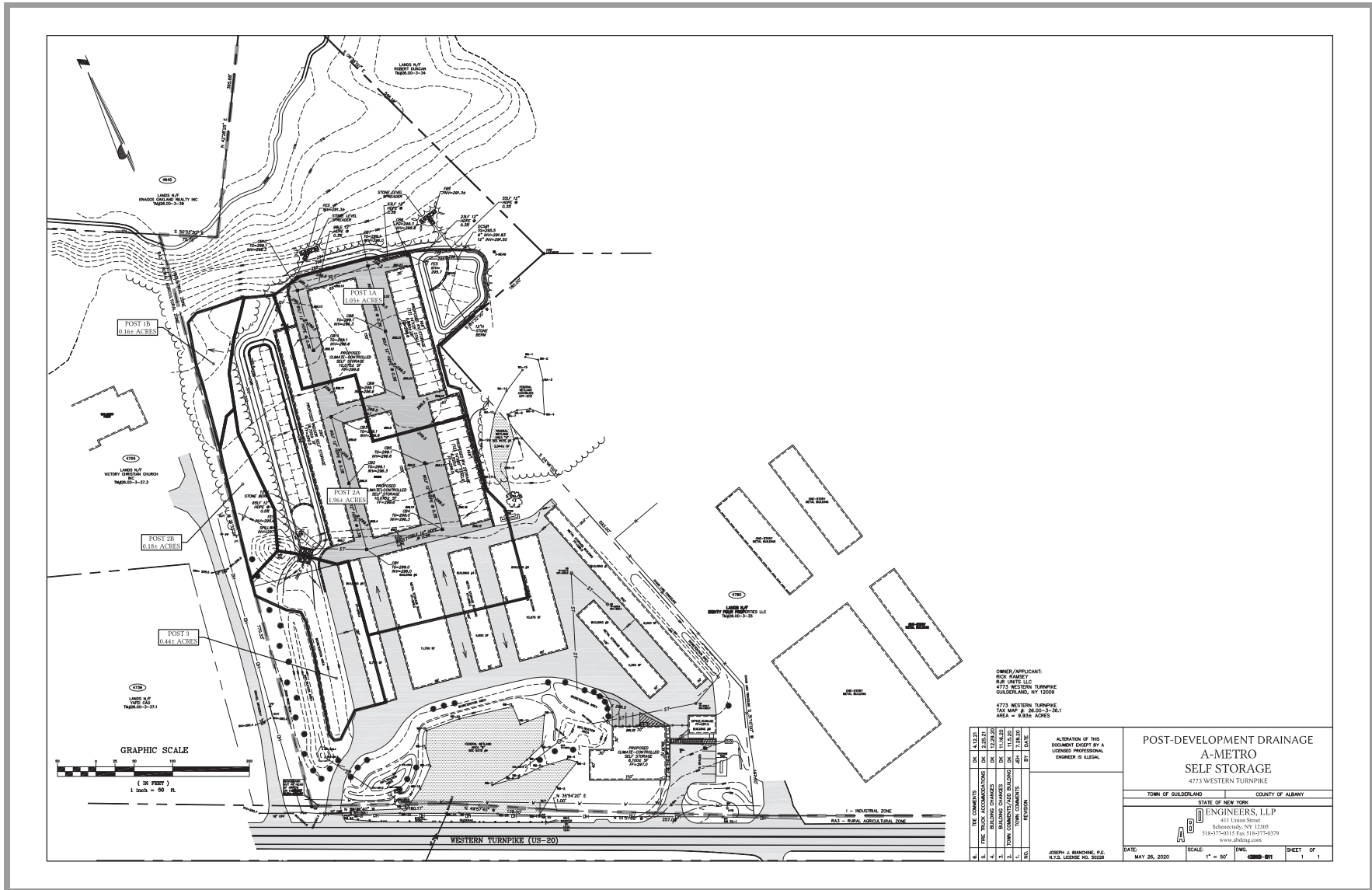
**ENGINEERS, LLP**  
 411 Union Street  
 Schenectady, NY 12305  
 518-377-0015 Fax 518-377-0379  
 www.ashley.com

DATE: MAY 26, 2020 SCALE: 1" = 50' DWG: 0000-011 SHEET OF 1 1

JOSEPH J. BISHOP, P.E.  
 N.Y.S. LICENSE NO. 90559



**EXHIBIT 3**  
**POST-DEVELOPMENT DRAINAGE MAP**



OWNER/APPLICANT:  
 RMC GROUP LLC  
 4773 WESTERN TURNPIKE  
 GUILDERLAND, NY 12009  
 4773 WESTERN TURNPIKE  
 TAX MAP # 26.00-3-36.1  
 AREA = 0.834 ACRES

NO.	DATE	DESCRIPTION
1	11/11/19	PRELIMINARY
2	01/14/20	REVISED
3	02/11/20	REVISED
4	03/11/20	REVISED
5	04/11/20	REVISED
6	05/11/20	REVISED

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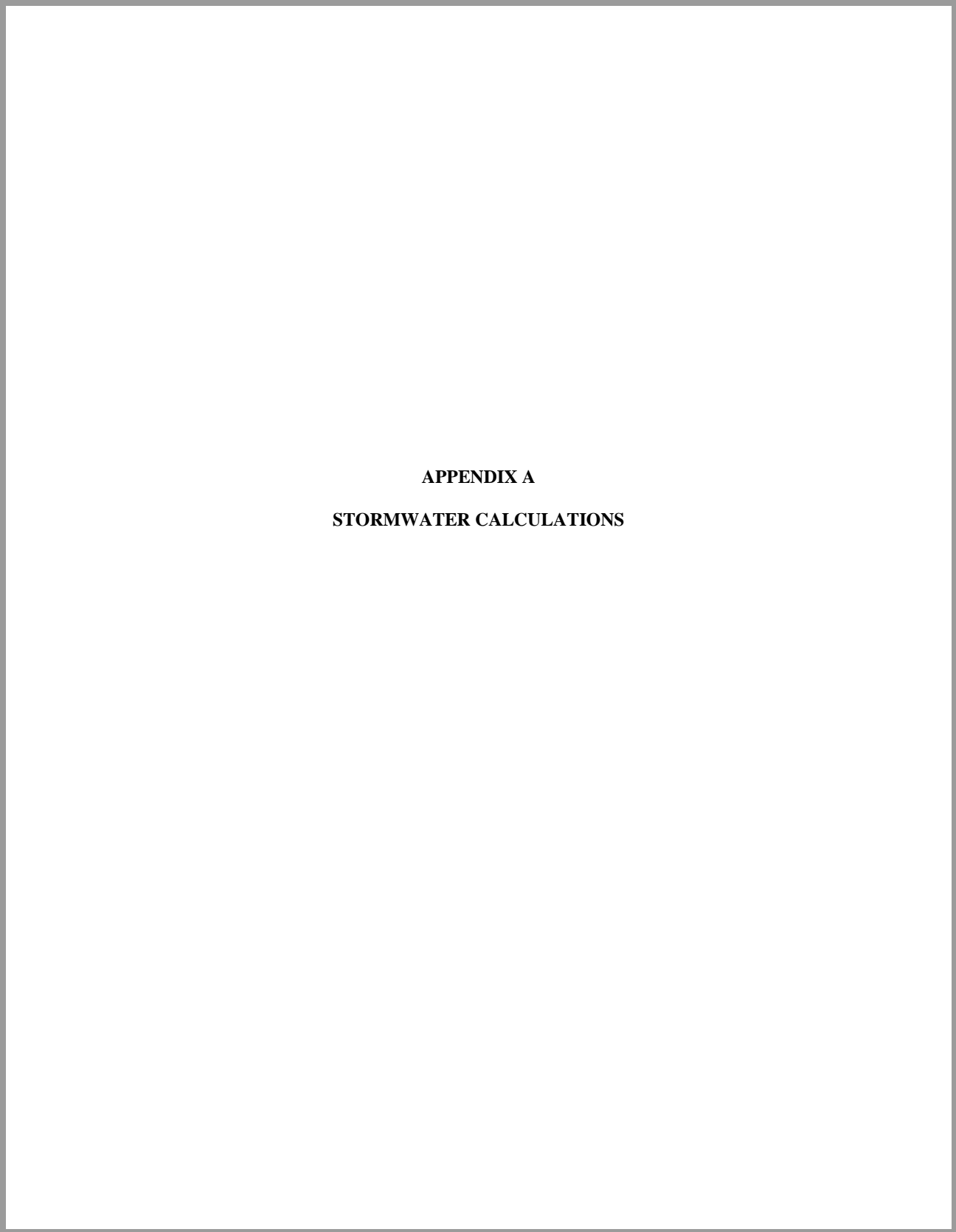
**POST-DEVELOPMENT DRAINAGE  
 A-METRO  
 SELF STORAGE**  
 4773 WESTERN TURNPIKE

TOWN OF GUILDERLAND COUNTY OF ALBANY

STATE OF NEW YORK

**ENGINEERS, LLP**  
 411 Union Street  
 Schenectady, NY 12305  
 518-377-0115 Fax 518-377-0379  
 www.ashmg.com

DATE: MAY 26, 2020 SCALE: 1" = 50' DWG: 0000-011 SHEET OF 1 1



**APPENDIX A**  
**STORMWATER CALCULATIONS**

Version 1.8  
 Last Updated: 11/09/2015

Total Water Quality Volume Calculation  
 $WQv(\text{acre-feet}) = [(P)(Rv)(A)] / 12$

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

Design Point:  
 P= 1.20 inch

Breakdown of Subcatchments						
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (ft <sup>3</sup> )	Description
1	1.03	0.76	74%	0.72	3,212	Bioretention 1
2	1.96	1.38	70%	0.68	5,822	Bioretention 2
3						
4						
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	2.99	2.14	71%	0.69	9,033	Subtotal 1
<b>Total</b>	2.99	2.14	71%	0.69	9,033	Initial WQv

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

Recalculate WQv after application of Area Reduction Techniques					
	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Runoff Coefficient Rv	WQv (ft <sup>3</sup> )
"<<Initial WQv"	2.99	2.14	71%	0.69	9,033
Subtract Area	0.00	0.00			
WQv adjusted after Area Reductions	2.99	2.14	71%	0.69	9,033
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	2.99	2.14	71%	0.69	9,033
WQv reduced by Area Reduction techniques					0

### Minimum RRv

**Enter the Soils Data for the site**

Soil Group	Acres	S
A		55%
B		40%
C	2.99	30%
D		20%
Total Area	2.99	

**Calculate the Minimum RRv**

S =	<b>0.30</b>	
Impervious =	2.14	<i>acre</i>
Precipitation	1.2	<i>in</i>
Rv	0.95	
<b>Minimum RRv</b>	<b>2,654</b>	<b><i>ft3</i></b>
	0.06	<i>af</i>

NOI QUESTIONS

#	NOI Question	Reported Value	
		cf	af
28	Total Water Quality Volume (WQv) Required	9033	0.207
30	Total RRV Provided	4421	0.101
31	Is RRV Provided $\geq$ WQv Required?	No	
32	Minimum RRV	2654	0.061
32a	Is RRV Provided $\geq$ Minimum RRV Required?	Yes	
33a	Total WQv Treated	4612	0.106
34	Sum of Volume Reduced & Treated	9033	0.207
34	Sum of Volume Reduced and Treated	9033	0.207
35	Is Sum RRV Provided and WQv Provided $\geq$ WQv Required?	Yes	

Apply Peak Flow Attenuation			
36	Channel Protection	<i>Cpv</i>	
37	Overbank	<i>Qp</i>	
37	Extreme Flood Control	<i>Qf</i>	
	Are Quantity Control requirements met?		

## Bioretention Worksheet

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

$$A_f = WQ_v * (d_f) / [k * (h_f + d_f)(t_f)]$$

- |        |   |  |
|--------|---|--|
| $A_f$  | Required Surface Area (ft <sup>2</sup> )      | The hydraulic conductivity [ft/day], can be varied depending on the properties of the soil media. Some reported conductivity values are: <b>Sand</b> - 3.5 ft/day (City of Austin 1988); <b>Peat</b> - 2.0 ft/day (Galli 1990); <b>Leaf Compost</b> - 8.7 ft/day (Claytor and Schueler, 1996); <b>Bioretention Soil</b> (0.5 ft/day (Claytor & |
| $WQ_v$ | Water Quality Volume (ft <sup>3</sup> )       |  |
| $d_f$  | Depth of the Soil Medium (feet)               | $k$  |
| $h_f$  | Average height of water above the planter bed |  |
| $t_f$  | Volume Through the Filter Media (days)        |  |

<b>Design Point:</b> <input style="width: 100px;" type="text"/>							
Enter Site Data For Drainage Area to be Treated by Practice							
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (ft <sup>3</sup> )	Precipitation (in)	Description
1	1.03	0.76	0.74	0.72	3211.68	1.20	Bioretention 1
Enter Impervious Area Reduced by Disconnection of Rooftops			74%	0.72	3,212	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						ft <sup>3</sup>	
Soil Information							
Soil Group		C					
Soil Infiltration Rate		0.00	in/hour	<span style="color: red;">Okay</span>			
Using Underdrains?		Yes	<span style="color: red;">Okay</span>				
Calculate the Minimum Filter Area							
				Value	Units	Notes	
WQv				3,212	ft <sup>3</sup>		
Enter Depth of Soil Media			$d_f$	2.5	ft	2.5-4 ft	
Enter Hydraulic Conductivity			$k$	0.5	ft/day		
Enter Average Height of Ponding			$h_f$	0.5	ft	6 inches max.	
Enter Filter Time			$t_f$	2	days		
<b>Required Filter Area</b>			<b><math>A_f</math></b>	<b>2676</b>	<b>ft<sup>2</sup></b>		
Determine Actual Bio-Retention Area							
Filter Width		34.1	ft				
Filter Length		100	ft				
Filter Area		3410	ft <sup>2</sup>				
Actual Volume Provided		4092	ft <sup>3</sup>				
Determine Runoff Reduction							
Is the Bioretention contributing flow to another practice?				<input type="checkbox"/>	Select Practice		
RRv		1,637					
<b>RRv applied</b>		<b>1,637</b>	<b>ft<sup>3</sup></b>	<b>This is 40% of the storage provided or WQv whichever is less.</b>			
Volume Treated		1,575	ft <sup>3</sup>	This is the portion of the WQv that is not reduced in the practice.			
Volume Directed		0	ft <sup>3</sup>	This volume is directed another practice			
Sizing v		OK	Check to be sure Area provided ≥ Af				

## Bioretention Worksheet

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

$$A_f = WQ_v * (d_f) / [k * (h_f + d_f)(t_f)]$$

- |        |   |   |
|--------|---|---|
| $A_f$  | Required Surface Area (ft <sup>2</sup> )      | The hydraulic conductivity [ft/day], can be varied depending on the properties of the soil media. Some reported conductivity values are: <b>Sand</b> - 3.5 ft/day (City of Austin 1988); <b>Peat</b> - 2.0 ft/day (Galli 1990); <b>Leaf Compost</b> - 8.7 ft/day (Claytor and Schueler, 1996); <b>Bioretention Soil</b> (0.5 ft/day (Claytor & Schueler, 1996)) |
| $WQ_v$ | Water Quality Volume (ft <sup>3</sup> )       |   |
| $d_f$  | Depth of the Soil Medium (feet)               | $k$   |
| $h_f$  | Average height of water above the planter bed |   |
| $t_f$  | Volume Through the Filter Media (days)        |   |

<b>Design Point:</b> <input style="width: 100%;" type="text"/>							
Enter Site Data For Drainage Area to be Treated by Practice							
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (ft <sup>3</sup> )	Precipitation (in)	Description
2	1.96	1.38	0.70	0.68	5821.58	1.20	Bioretention 2
Enter Impervious Area Reduced by Disconnection of Rooftops			70%	0.68	5,822	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						ft <sup>3</sup>	
Soil Information							
Soil Group		C					
Soil Infiltration Rate		0.00	in/hour	Okay			
Using Underdrains?		Yes Okay					
Calculate the Minimum Filter Area							
				Value	Units	Notes	
WQv				5,822	ft <sup>3</sup>		
Enter Depth of Soil Media			$d_f$	2.5	ft	2.5-4 ft	
Enter Hydraulic Conductivity			$k$	0.5	ft/day		
Enter Average Height of Ponding			$h_f$	0.5	ft	6 inches max.	
Enter Filter Time			$t_f$	2	days		
<b>Required Filter Area</b>			<b><math>A_f</math></b>	<b>4851</b>	<b>ft<sup>2</sup></b>		
Determine Actual Bio-Retention Area							
Filter Width		58	ft				
Filter Length		100	ft				
Filter Area		5800	ft <sup>2</sup>				
Actual Volume Provided		6960	ft <sup>3</sup>				
Determine Runoff Reduction							
Is the Bioretention contributing flow to another practice?				Select Practice			
RRv		2,784					
<b>RRv applied</b>		<b>2,784</b>	<b>ft<sup>3</sup></b>	<b>This is 40% of the storage provided or WQv whichever is less.</b>			
Volume Treated		3,038	ft <sup>3</sup>	This is the portion of the WQv that is not reduced in the practice.			
Volume Directed		0	ft <sup>3</sup>	This volume is directed another practice			
Sizing v		OK		Check to be sure Area provided ≥ Af			



COMP BY    TAG   

SHEET   1   OF   1  

CHECK BY    JJB   

DATE   4/12/2021  

PROJECT NAME & LOCATION    A-Metro Altamont Self Storage – 4773 Western Turnpike    PROJ. NO.   4281B  

SUBJECT    Stormwater Pretreatment Volume   

**Area 1 Pretreatment Volume Required (Per NYSDEC GI Worksheet):**

*Total Area = 1.03 acres*

*Impervious Area = 0.76 acres*

*WQv = 3,212 ft<sup>3</sup>*

*Pretreatment = 25% WQv = 803 ft<sup>3</sup>*

**Pretreatment Volume Provided:**

*Forebay (12" Depth) = 915 ft<sup>3</sup>*

*Total = 915 ft<sup>3</sup> ≥ 803 ft<sup>3</sup> ∴ OK*

**Area 2 Pretreatment Volume Required (Per NYSDEC GI Worksheet):**

*Total Area = 1.96 acres*

*Impervious Area = 1.38 acres*

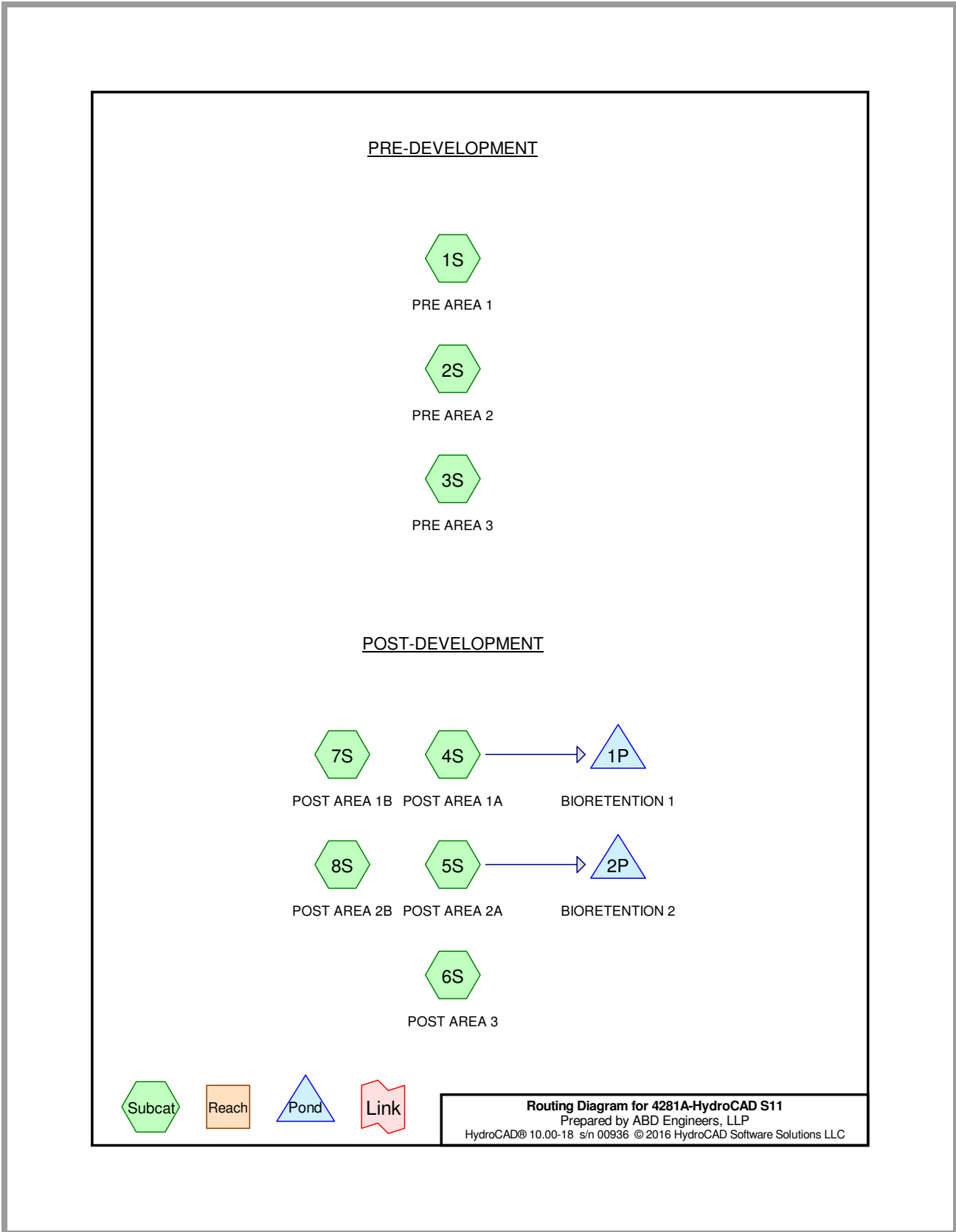
*WQv = 5,822 ft<sup>3</sup>*

*Pretreatment = 25% WQv = 1,456 ft<sup>3</sup>*

**Pretreatment Volume Provided:**

*Forebay (12" Depth) = 1,670 ft<sup>3</sup>*

*Total = 1,670 ft<sup>3</sup> > 1,456 ft<sup>3</sup> ∴ OK*



**4281A-HydroCAD S11**

Type II 24-hr 1-YR Rainfall=2.19"

Prepared by ABD Engineers, LLP

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Page 2

**Summary for Subcatchment 1S: PRE AREA 1**

Runoff = 0.51 cfs @ 12.12 hrs, Volume= 1,848 cf, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
Type II 24-hr 1-YR Rainfall=2.19"

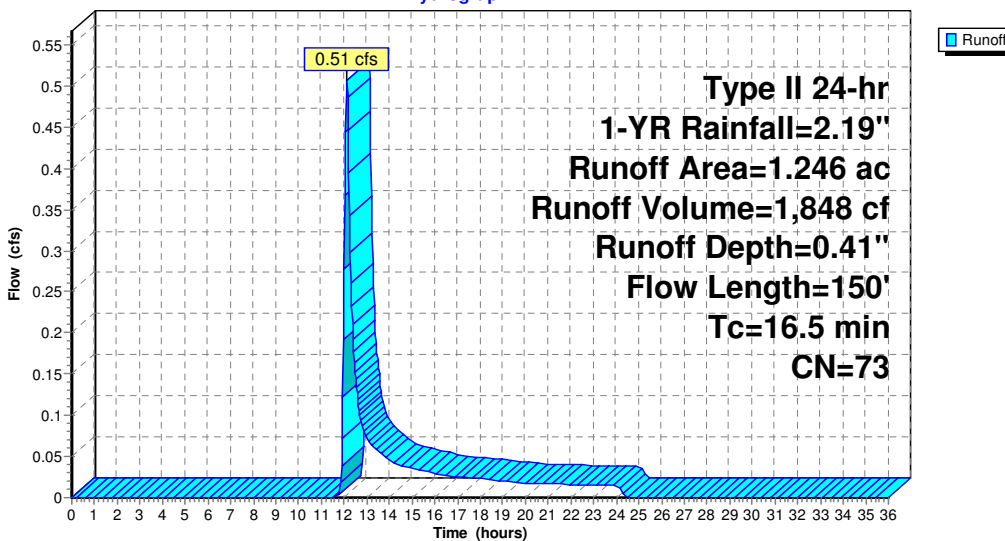
Area (ac)	CN	Description
1.246	73	Woods, Fair, HSG C
1.246		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.3	100	0.0550	0.11		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.80"
1.2	50	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
16.5	150	Total			

**Subcatchment 1S: PRE AREA 1**

Hydrograph



**4281A-HydroCAD S11**

Type II 24-hr 1-YR Rainfall=2.19"

Prepared by ABD Engineers, LLP

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Page 3

**Summary for Subcatchment 2S: PRE AREA 2**

Runoff = 0.33 cfs @ 12.20 hrs, Volume= 1,538 cf, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 1-YR Rainfall=2.19"

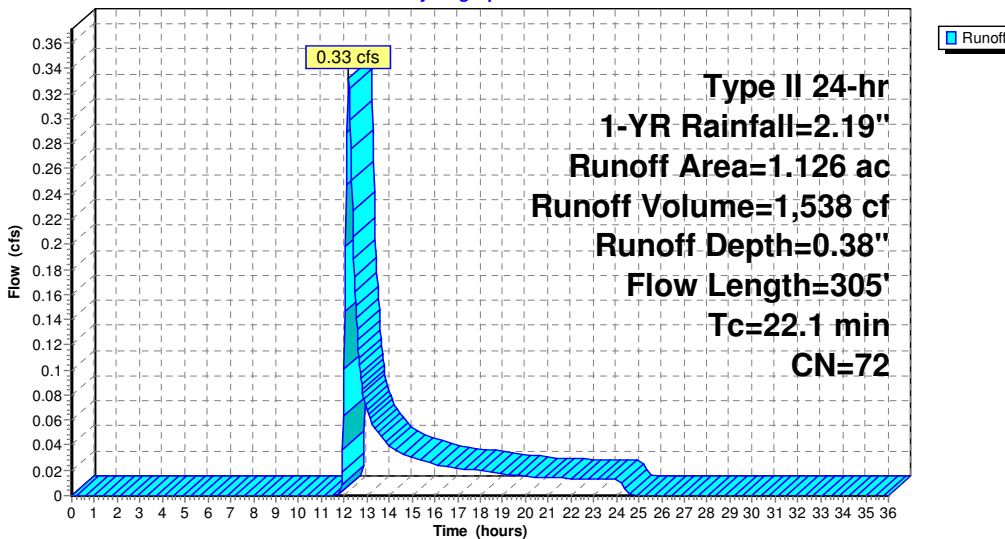
Area (ac)	CN	Description
1.126	72	Woods/grass comb., Good, HSG C
1.126		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.9	100	0.0500	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.80"
6.2	205	0.0120	0.55		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
22.1	305	Total			

**Subcatchment 2S: PRE AREA 2**

Hydrograph



**4281A-HydroCAD S11**

Type II 24-hr 1-YR Rainfall=2.19"

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Page 4

**Summary for Subcatchment 3S: PRE AREA 3**

Runoff = 2.45 cfs @ 11.98 hrs, Volume= 5,154 cf, Depth= 1.06"

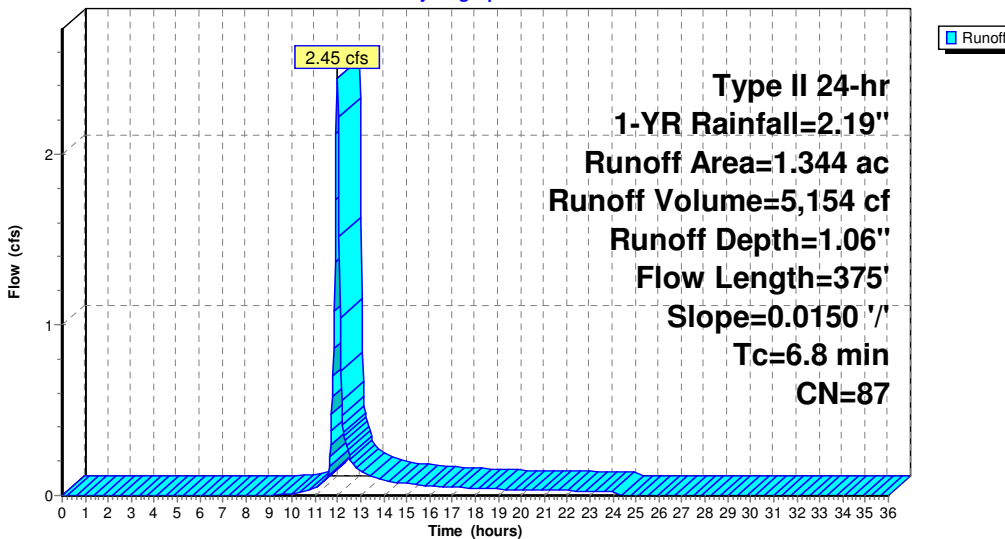
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 1-YR Rainfall=2.19"

Area (ac)	CN	Description
* 0.751	98	Impervious, HSG C
0.593	72	Woods/grass comb., Good, HSG C
1.344	87	Weighted Average
0.593		44.12% Pervious Area
0.751		55.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0150	1.15		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.80"
5.3	275	0.0150	0.86		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.8	375	Total			

**Subcatchment 3S: PRE AREA 3**

Hydrograph



**4281A-HydroCAD S11**

Type II 24-hr 1-YR Rainfall=2.19"

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**Summary for Subcatchment 4S: POST AREA 1A**

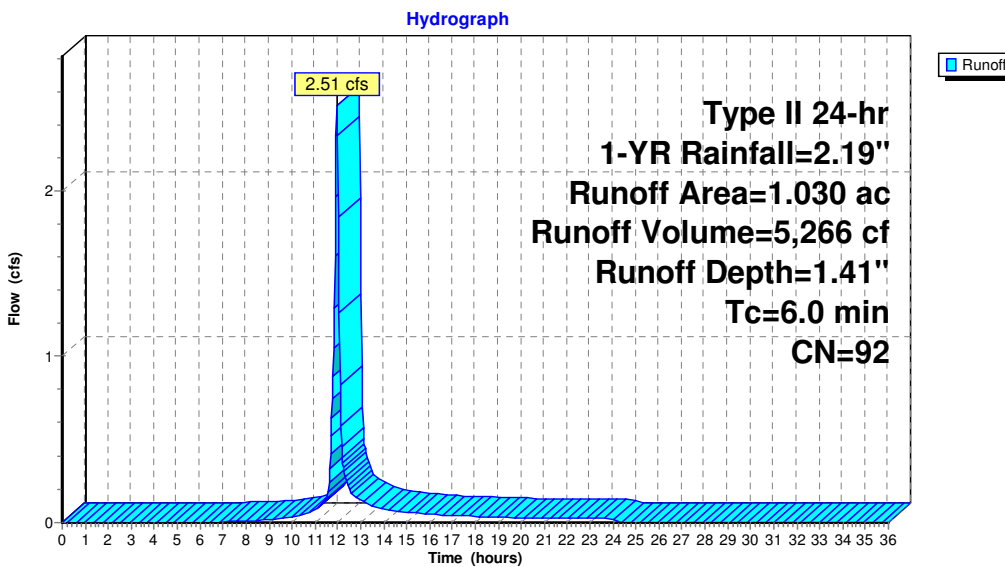
Runoff = 2.51 cfs @ 11.97 hrs, Volume= 5,266 cf, Depth= 1.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 1-YR Rainfall=2.19"

Area (ac)	CN	Description
0.340	98	Paved parking, HSG C
0.422	98	Roofs, HSG C
0.268	74	>75% Grass cover, Good, HSG C
1.030	92	Weighted Average
0.268		26.02% Pervious Area
0.762		73.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 4S: POST AREA 1A**



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Type II 24-hr 1-YR Rainfall=2.19"

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**Summary for Subcatchment 5S: POST AREA 2A**

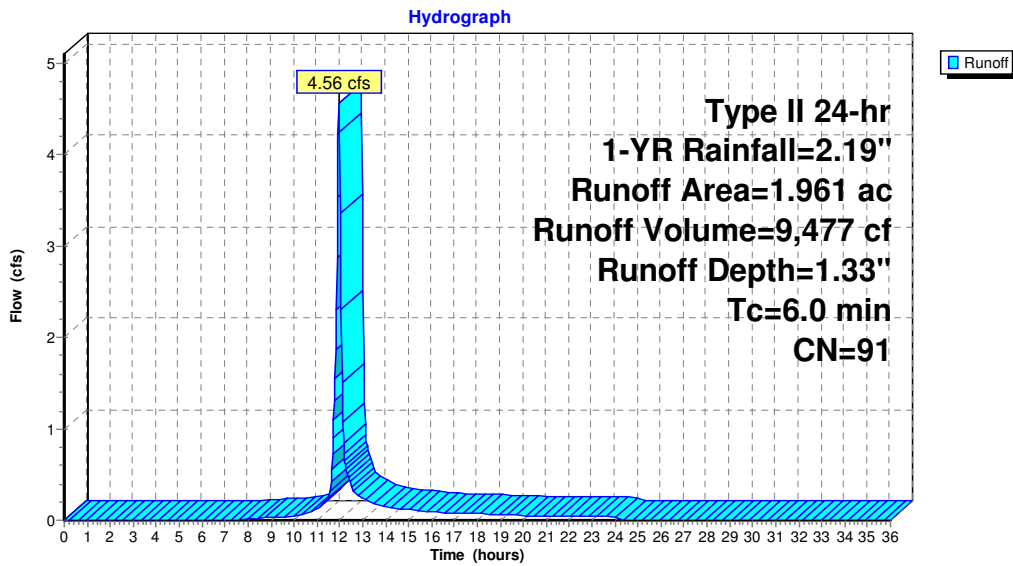
Runoff = 4.56 cfs @ 11.97 hrs, Volume= 9,477 cf, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
Type II 24-hr 1-YR Rainfall=2.19"

Area (ac)	CN	Description
0.505	98	Roofs, HSG C
0.381	98	Paved parking, HSG C
* 0.490	98	Ex. Impervious, HSG C
0.585	74	>75% Grass cover, Good, HSG C
1.961	91	Weighted Average
0.585		29.83% Pervious Area
1.376		70.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 5S: POST AREA 2A**



**4281A-HydroCAD S11**

Type II 24-hr 1-YR Rainfall=2.19"

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**Summary for Subcatchment 6S: POST AREA 3**

Runoff = 0.65 cfs @ 11.98 hrs, Volume= 1,334 cf, Depth= 0.83"

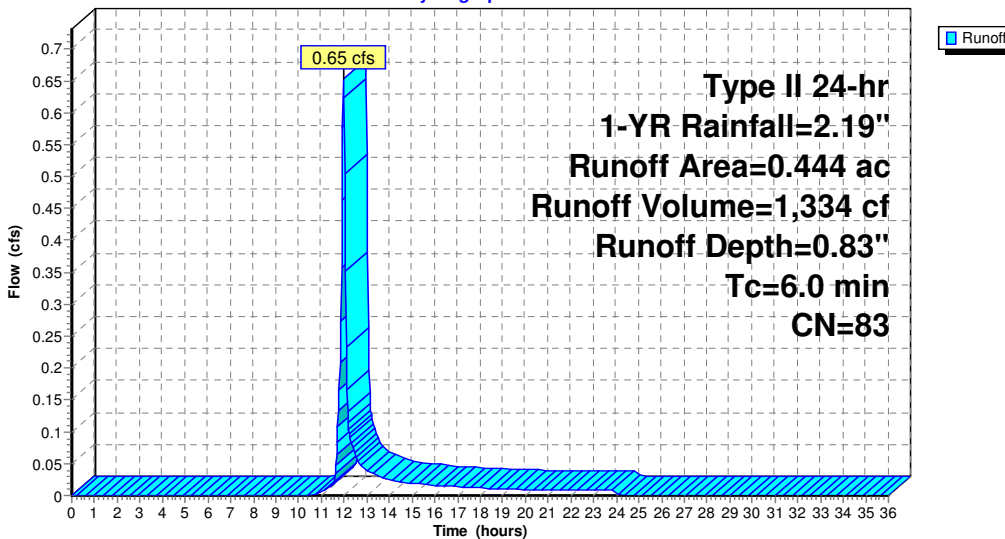
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 1-YR Rainfall=2.19"

Area (ac)	CN	Description
* 0.171	98	Impervious, HSG C
0.273	74	>75% Grass cover, Good, HSG C
0.444	83	Weighted Average
0.273		61.49% Pervious Area
0.171		38.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 6S: POST AREA 3**

Hydrograph



**4281A-HydroCAD S11**

Type II 24-hr 1-YR Rainfall=2.19"

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**Summary for Subcatchment 7S: POST AREA 1B**

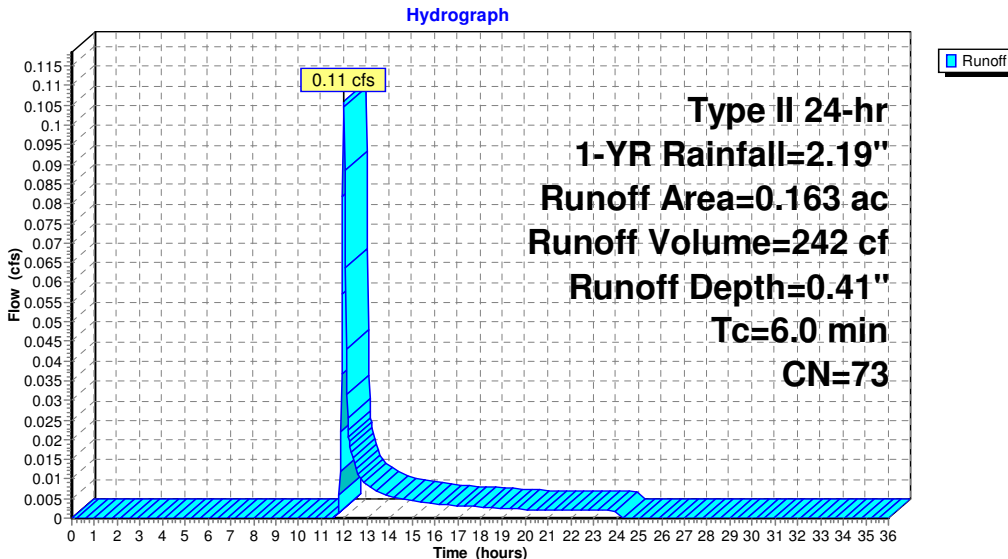
Runoff = 0.11 cfs @ 11.99 hrs, Volume= 242 cf, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 1-YR Rainfall=2.19"

Area (ac)	CN	Description
0.163	73	Woods, Fair, HSG C
0.163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 7S: POST AREA 1B**



**4281A-HydroCAD S11**

Type II 24-hr 1-YR Rainfall=2.19"

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**Summary for Subcatchment 8S: POST AREA 2B**

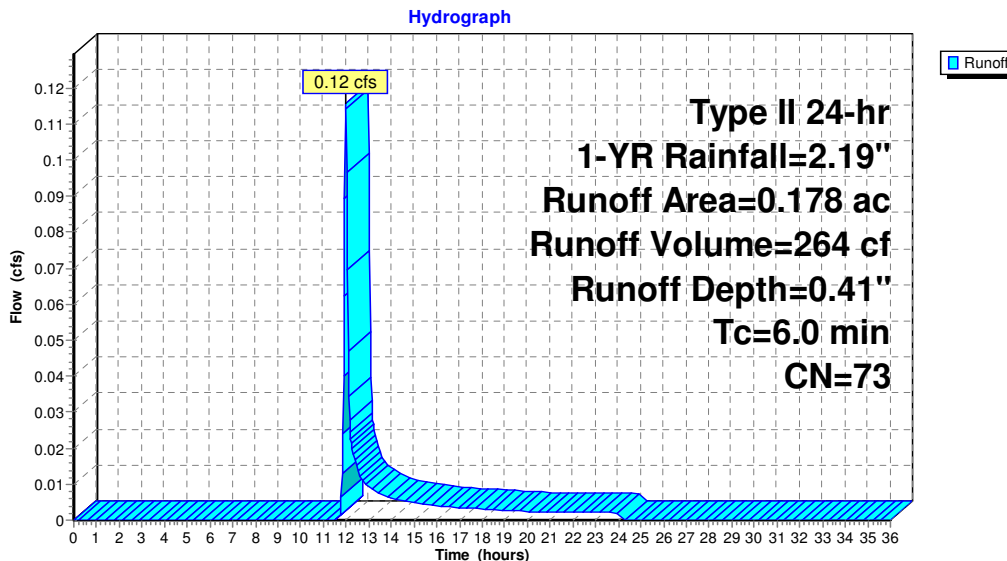
Runoff = 0.12 cfs @ 11.99 hrs, Volume= 264 cf, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 1-YR Rainfall=2.19"

Area (ac)	CN	Description
0.178	73	Woods, Fair, HSG C
0.178		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 8S: POST AREA 2B**



**4281A-HydroCAD S11**

Type II 24-hr 1-YR Rainfall=2.19"

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**Summary for Pond 1P: BIORETENTION 1**

Inflow Area = 44,867 sf, 73.98% Impervious, Inflow Depth = 1.41" for 1-YR event  
 Inflow = 2.51 cfs @ 11.97 hrs, Volume= 5,266 cf  
 Outflow = 0.05 cfs @ 15.98 hrs, Volume= 1,206 cf, Atten= 98%, Lag= 240.7 min  
 Primary = 0.05 cfs @ 15.98 hrs, Volume= 1,206 cf  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs / 2  
 Peak Elev= 295.52' @ 15.98 hrs Surf.Area= 11,454 sf Storage= 4,223 cf

Plug-Flow detention time= 531.6 min calculated for 1,205 cf (23% of inflow)  
 Center-of-Mass det. time= 391.0 min ( 1,200.1 - 809.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	295.00'	16,485 cf	<b>Ponding (Prismatic)</b> Listed below (Recalc)
#2	292.50'	1,023 cf	<b>Soil (Prismatic)</b> Listed below (Recalc) 8,525 cf Overall x 12.0% Voids
#3	291.83'	914 cf	<b>Stone (Prismatic)</b> Listed below (Recalc) 2,285 cf Overall x 40.0% Voids
		18,422 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
295.00	4,210	0	0
296.00	5,030	4,620	4,620
298.00	6,835	11,865	16,485

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
292.50	3,410	0	0
295.00	3,410	8,525	8,525

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
291.83	3,410	0	0
292.50	3,410	2,285	2,285

Device	Routing	Invert	Outlet Devices
#1	Primary	291.50'	<b>12.0" Round 12" Pipe</b> L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.50' / 291.30' S= 0.0040 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	292.00'	<b>6.0" Round 6" Underdrain</b> L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.00' / 291.83' S= 0.0021 '/ Cc= 0.900 n= 0.012, Flow Area= 0.20 sf
#3	Device 2	295.00'	<b>0.250 in/hr Exfiltration To UD over Surface area above 295.00'</b> Excluded Surface area = 11,030 sf
#4	Device 1	295.50'	<b>1.0" x 3.0" Horiz. Grate X 8.00 columns</b> X 3 rows C= 0.600 in 24.0" Grate (16% open area) Limited to weir flow at low heads
#5	Secondary	297.00'	<b>10.0' long x 10.0' breadth Emergency Spillway</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60

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Type II 24-hr 1-YR Rainfall=2.19"

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Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

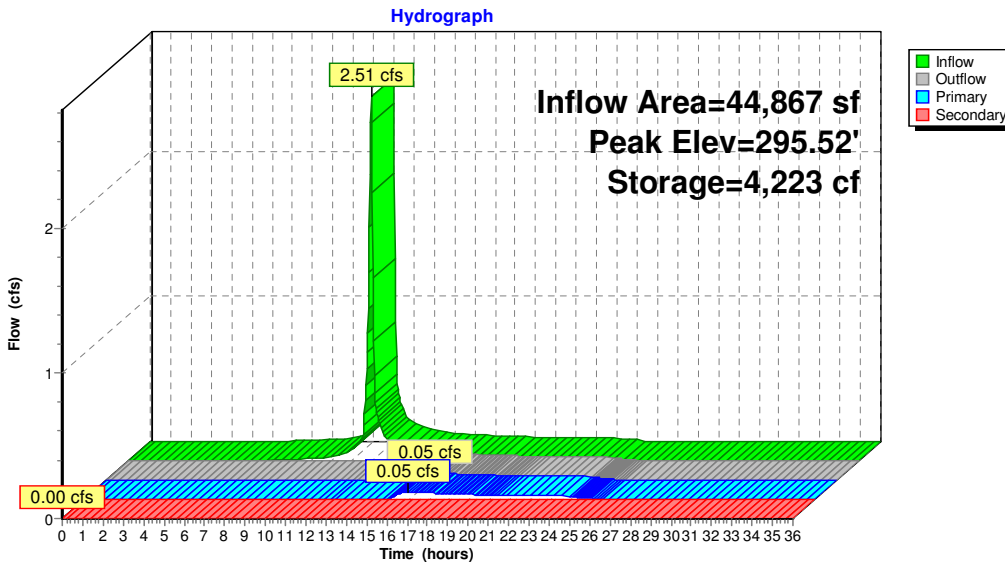
**Primary OutFlow** Max=0.05 cfs @ 15.98 hrs HW=295.52' (Free Discharge)

- 1=12" Pipe (Passes 0.05 cfs of 6.45 cfs potential flow)
- 2=6" Underdrain (Passes 0.00 cfs of 1.07 cfs potential flow)
- 3=Exfiltration To UD (Exfiltration Controls 0.00 cfs)
- 4=Grate (Weir Controls 0.05 cfs @ 0.43 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=291.83' (Free Discharge)

- 5=Emergency Spillway (Controls 0.00 cfs)

**Pond 1P: BIORETENTION 1**



**4281A-HydroCAD S11**

Type II 24-hr 1-YR Rainfall=2.19"

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**Summary for Pond 2P: BIORETENTION 2**

Inflow Area = 85,421 sf, 70.17% Impervious, Inflow Depth = 1.33" for 1-YR event  
 Inflow = 4.56 cfs @ 11.97 hrs, Volume= 9,477 cf  
 Outflow = 0.04 cfs @ 24.02 hrs, Volume= 1,394 cf, Atten= 99%, Lag= 723.1 min  
 Primary = 0.01 cfs @ 24.02 hrs, Volume= 456 cf  
 Secondary = 0.03 cfs @ 24.02 hrs, Volume= 938 cf  
 Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs / 2  
 Peak Elev= 296.09' @ 24.02 hrs Surf.Area= 22,812 sf Storage= 8,696 cf

Plug-Flow detention time= 785.1 min calculated for 1,393 cf (15% of inflow)  
 Center-of-Mass det. time= 628.1 min ( 1,442.5 - 814.4 )

Volume	Invert	Avail.Storage	Storage Description
#1	295.50'	23,789 cf	<b>Ponding (Prismatic)</b> Listed below (Recalc)
#2	293.00'	2,177 cf	<b>Soil (Prismatic)</b> Listed below (Recalc) 18,138 cf Overall x 12.0% Voids
#3	292.33'	1,944 cf	<b>Stone (Prismatic)</b> Listed below (Recalc) 4,861 cf Overall x 40.0% Voids
		27,910 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
295.50	7,255	0	0
296.00	8,140	3,849	3,849
298.00	11,800	19,940	23,789

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
293.00	7,255	0	0
295.50	7,255	18,138	18,138

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
292.33	7,255	0	0
293.00	7,255	4,861	4,861

Device	Routing	Invert	Outlet Devices
#1	Primary	292.00'	<b>6.0" Round 6" Underdrain</b> L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.00' / 291.83' S= 0.0021 ' /' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf
#2	Device 1	295.50'	<b>0.250 in/hr Exfiltration To UD over Surface area above 295.50'</b> Excluded Surface area = 21,765 sf
#3	Secondary	296.00'	<b>12.0" Round Culvert</b> L= 15.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 296.00' / 295.50' S= 0.0333 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	297.50'	<b>10.0' long x 8.0' breadth Emergency Spillway</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65

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Type II 24-hr 1-YR Rainfall=2.19"

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2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.01 cfs @ 24.02 hrs HW=296.09' (Free Discharge)

↳ **1=6" Underdrain** (Passes 0.01 cfs of 1.16 cfs potential flow)

↳ **2=Exfiltration To UD** (Exfiltration Controls 0.01 cfs)

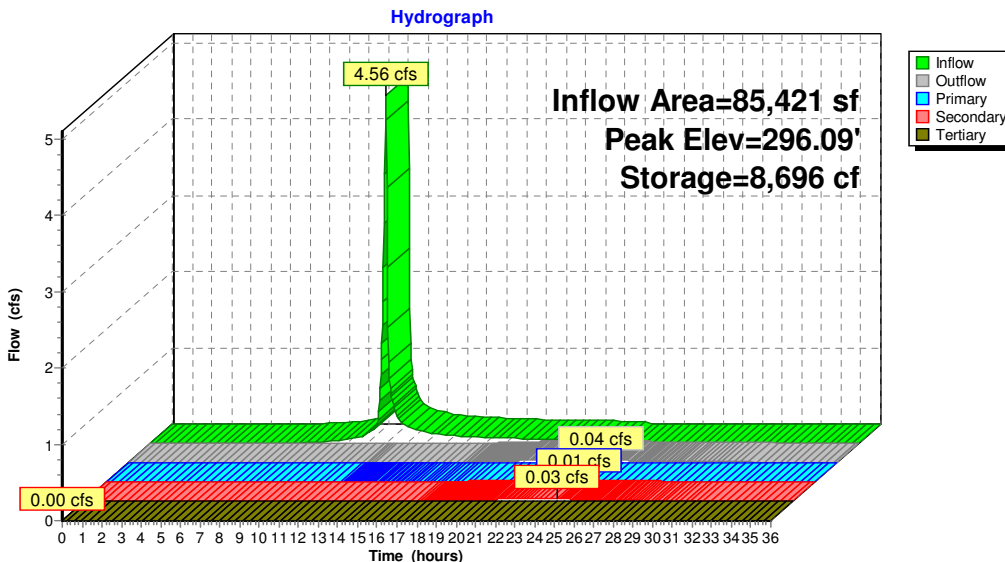
**Secondary OutFlow** Max=0.03 cfs @ 24.02 hrs HW=296.09' (Free Discharge)

↳ **3=Culvert** (Inlet Controls 0.03 cfs @ 1.01 fps)

**Tertiary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=292.33' (Free Discharge)

↳ **4=Emergency Spillway** (Controls 0.00 cfs)

**Pond 2P: BIORETENTION 2**



**4281A-HydroCAD S11**

Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Subcatchment 1S: PRE AREA 1**

Runoff = 1.91 cfs @ 12.10 hrs, Volume= 5,796 cf, Depth= 1.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
Type II 24-hr 10-YR Rainfall=3.65"

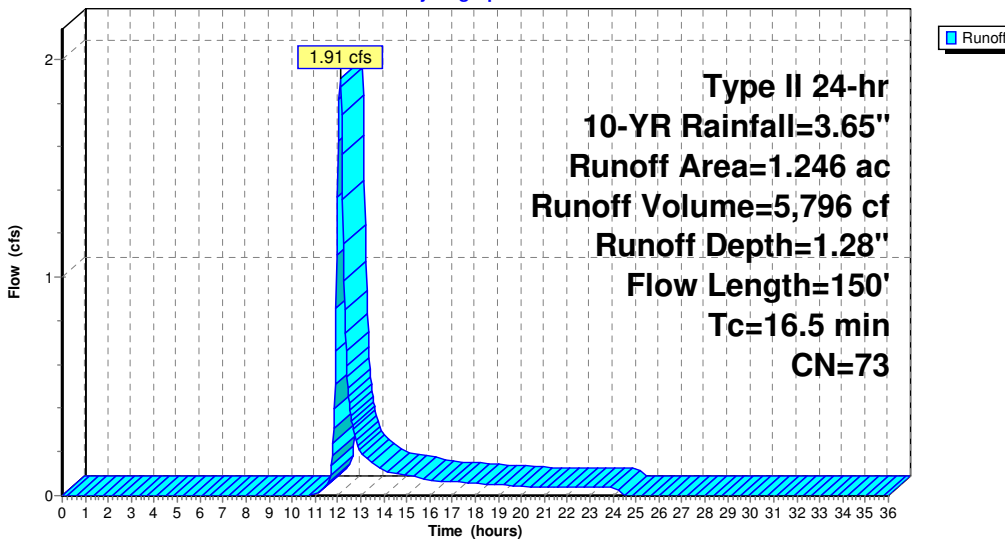
Area (ac)	CN	Description
1.246	73	Woods, Fair, HSG C
1.246		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.3	100	0.0550	0.11		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.80"
1.2	50	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
16.5	150	Total			

**Subcatchment 1S: PRE AREA 1**

Hydrograph



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Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Subcatchment 2S: PRE AREA 2**

Runoff = 1.37 cfs @ 12.16 hrs, Volume= 4,987 cf, Depth= 1.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 10-YR Rainfall=3.65"

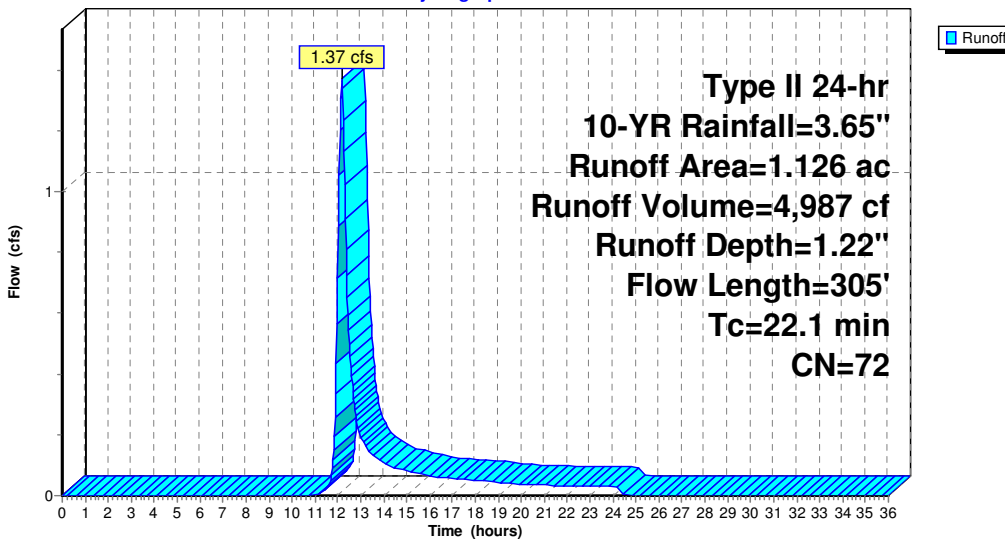
Area (ac)	CN	Description
1.126	72	Woods/grass comb., Good, HSG C
1.126		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.9	100	0.0500	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.80"
6.2	205	0.0120	0.55		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
22.1	305	Total			

**Subcatchment 2S: PRE AREA 2**

Hydrograph



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Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Subcatchment 3S: PRE AREA 3**

Runoff = 5.25 cfs @ 11.98 hrs, Volume= 11,307 cf, Depth= 2.32"

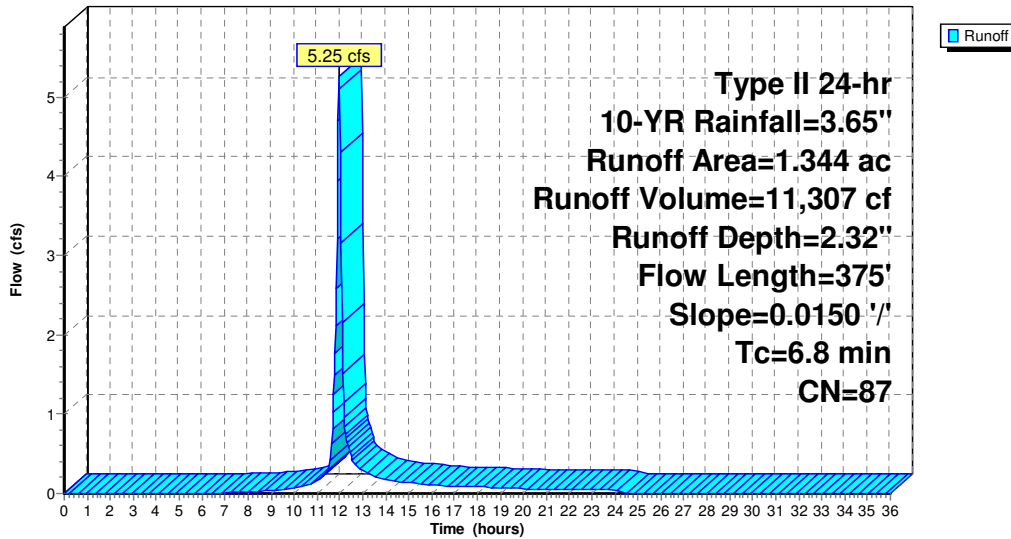
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
Type II 24-hr 10-YR Rainfall=3.65"

Area (ac)	CN	Description
* 0.751	98	Impervious, HSG C
0.593	72	Woods/grass comb., Good, HSG C
1.344	87	Weighted Average
0.593		44.12% Pervious Area
0.751		55.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0150	1.15		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.80"
5.3	275	0.0150	0.86		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.8	375	Total			

**Subcatchment 3S: PRE AREA 3**

Hydrograph



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Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Subcatchment 4S: POST AREA 1A**

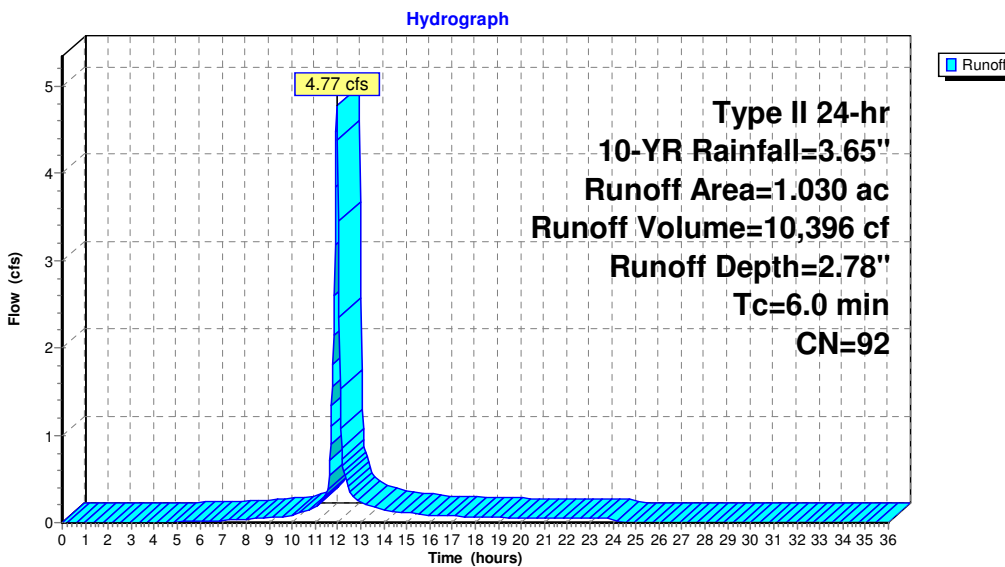
Runoff = 4.77 cfs @ 11.97 hrs, Volume= 10,396 cf, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 10-YR Rainfall=3.65"

Area (ac)	CN	Description
0.340	98	Paved parking, HSG C
0.422	98	Roofs, HSG C
0.268	74	>75% Grass cover, Good, HSG C
1.030	92	Weighted Average
0.268		26.02% Pervious Area
0.762		73.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 4S: POST AREA 1A**



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Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Subcatchment 5S: POST AREA 2A**

Runoff = 8.85 cfs @ 11.97 hrs, Volume= 19,102 cf, Depth= 2.68"

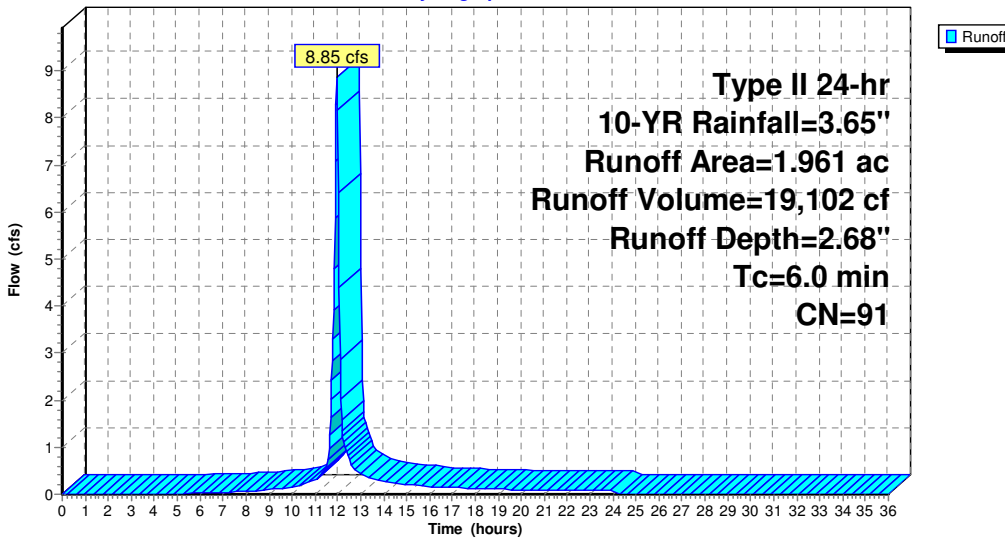
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
Type II 24-hr 10-YR Rainfall=3.65"

Area (ac)	CN	Description
0.505	98	Roofs, HSG C
0.381	98	Paved parking, HSG C
* 0.490	98	Ex. Impervious, HSG C
0.585	74	>75% Grass cover, Good, HSG C
1.961	91	Weighted Average
0.585		29.83% Pervious Area
1.376		70.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 5S: POST AREA 2A**

Hydrograph



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Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Subcatchment 6S: POST AREA 3**

Runoff = 1.56 cfs @ 11.97 hrs, Volume= 3,200 cf, Depth= 1.99"

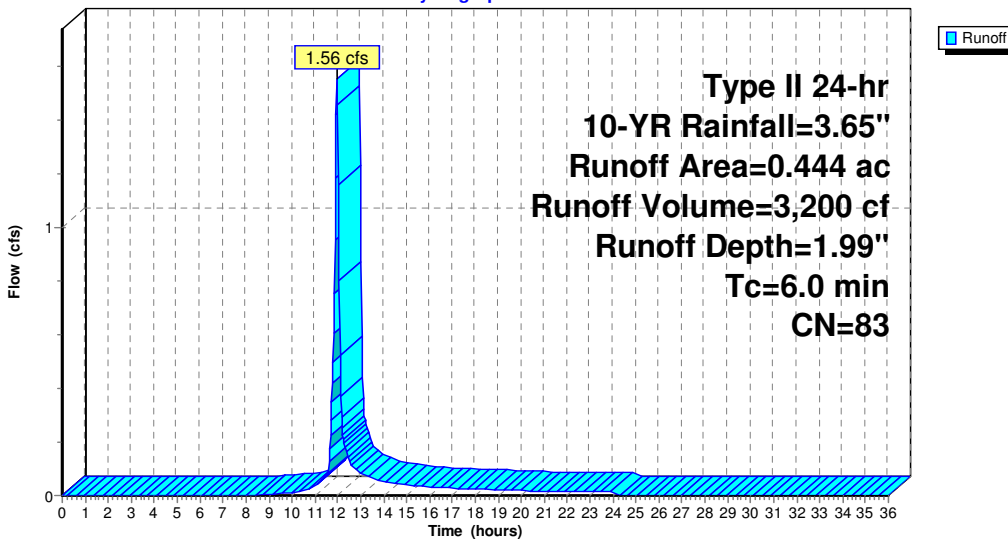
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 10-YR Rainfall=3.65"

Area (ac)	CN	Description
* 0.171	98	Impervious, HSG C
0.273	74	>75% Grass cover, Good, HSG C
0.444	83	Weighted Average
0.273		61.49% Pervious Area
0.171		38.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 6S: POST AREA 3**

Hydrograph



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Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Subcatchment 7S: POST AREA 1B**

Runoff = 0.37 cfs @ 11.98 hrs, Volume= 758 cf, Depth= 1.28"

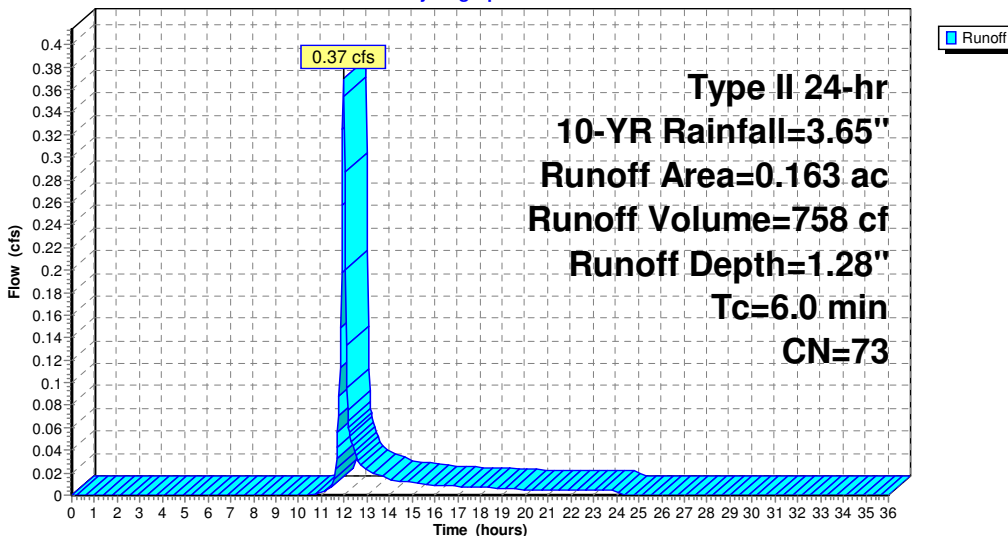
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 10-YR Rainfall=3.65"

Area (ac)	CN	Description
0.163	73	Woods, Fair, HSG C
0.163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 7S: POST AREA 1B**

Hydrograph



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Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Subcatchment 8S: POST AREA 2B**

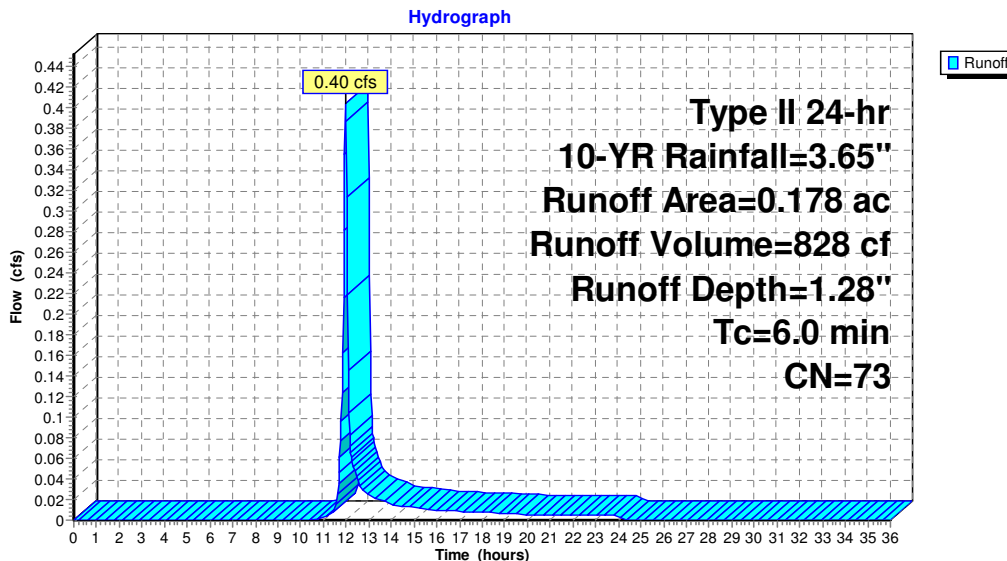
Runoff = 0.40 cfs @ 11.98 hrs, Volume= 828 cf, Depth= 1.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 10-YR Rainfall=3.65"

Area (ac)	CN	Description
0.178	73	Woods, Fair, HSG C
0.178		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 8S: POST AREA 2B**



**4281A-HydroCAD S11**

Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Pond 1P: BIORETENTION 1**

Inflow Area = 44,867 sf, 73.98% Impervious, Inflow Depth = 2.78" for 10-YR event  
 Inflow = 4.77 cfs @ 11.97 hrs, Volume= 10,396 cf  
 Outflow = 1.27 cfs @ 12.11 hrs, Volume= 6,334 cf, Atten= 73%, Lag= 8.4 min  
 Primary = 1.27 cfs @ 12.11 hrs, Volume= 6,334 cf  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs / 2  
 Peak Elev= 295.78' @ 12.11 hrs Surf.Area= 11,668 sf Storage= 5,458 cf

Plug-Flow detention time= 218.0 min calculated for 6,334 cf (61% of inflow)  
 Center-of-Mass det. time= 113.7 min ( 903.6 - 789.9 )

Volume	Invert	Avail.Storage	Storage Description
#1	295.00'	16,485 cf	<b>Ponding (Prismatic)</b> Listed below (Recalc)
#2	292.50'	1,023 cf	<b>Soil (Prismatic)</b> Listed below (Recalc) 8,525 cf Overall x 12.0% Voids
#3	291.83'	914 cf	<b>Stone (Prismatic)</b> Listed below (Recalc) 2,285 cf Overall x 40.0% Voids
		18,422 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
295.00	4,210	0	0
296.00	5,030	4,620	4,620
298.00	6,835	11,865	16,485

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
292.50	3,410	0	0
295.00	3,410	8,525	8,525

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
291.83	3,410	0	0
292.50	3,410	2,285	2,285

Device	Routing	Invert	Outlet Devices
#1	Primary	291.50'	<b>12.0" Round 12" Pipe</b> L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.50' / 291.30' S= 0.0040 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	292.00'	<b>6.0" Round 6" Underdrain</b> L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.00' / 291.83' S= 0.0021 '/ Cc= 0.900 n= 0.012, Flow Area= 0.20 sf
#3	Device 2	295.00'	<b>0.250 in/hr Exfiltration To UD over Surface area above 295.00'</b> Excluded Surface area = 11,030 sf
#4	Device 1	295.50'	<b>1.0" x 3.0" Horiz. Grate X 8.00 columns</b> X 3 rows C= 0.600 in 24.0" Grate (16% open area) Limited to weir flow at low heads
#5	Secondary	297.00'	<b>10.0' long x 10.0' breadth Emergency Spillway</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60

**4281A-HydroCAD S11**

Type II 24-hr 10-YR Rainfall=3.65"

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Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

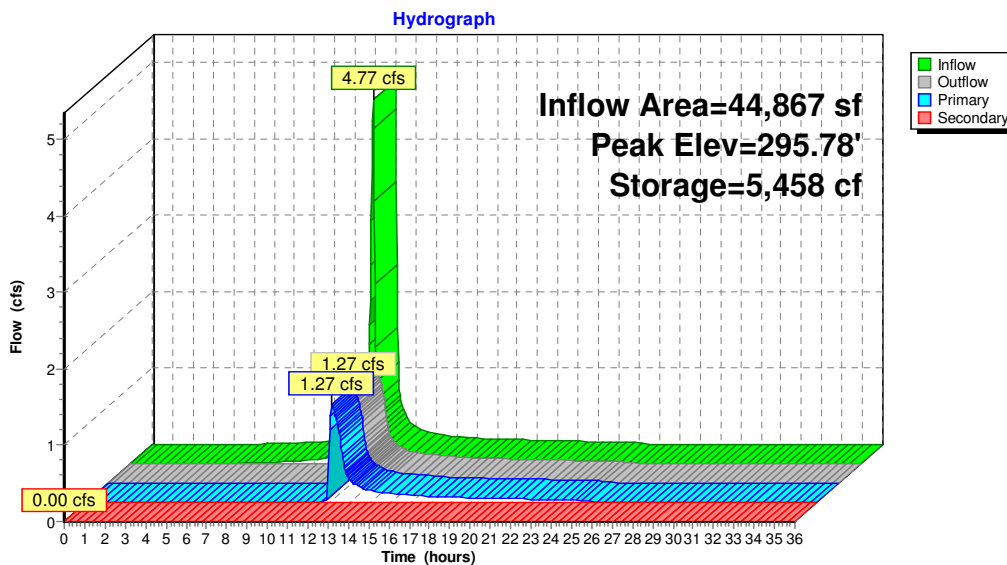
**Primary OutFlow** Max=1.27 cfs @ 12.11 hrs HW=295.78' (Free Discharge)

- 1=12" Pipe (Passes 1.27 cfs of 6.71 cfs potential flow)
- 2=6" Underdrain (Passes 0.00 cfs of 1.11 cfs potential flow)
- 3=Exfiltration To UD (Exfiltration Controls 0.00 cfs)
- 4=Grate (Orifice Controls 1.27 cfs @ 2.53 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=291.83' (Free Discharge)

- 5=Emergency Spillway (Controls 0.00 cfs)

**Pond 1P: BIORETENTION 1**



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Type II 24-hr 10-YR Rainfall=3.65"

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**Summary for Pond 2P: BIORETENTION 2**

Inflow Area = 85,421 sf, 70.17% Impervious, Inflow Depth = 2.68" for 10-YR event  
 Inflow = 8.85 cfs @ 11.97 hrs, Volume= 19,102 cf  
 Outflow = 0.67 cfs @ 12.53 hrs, Volume= 10,977 cf, Atten= 92%, Lag= 33.7 min  
 Primary = 0.01 cfs @ 12.53 hrs, Volume= 569 cf  
 Secondary = 0.66 cfs @ 12.53 hrs, Volume= 10,407 cf  
 Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs / 2  
 Peak Elev= 296.41' @ 12.53 hrs Surf.Area= 23,401 sf Storage= 11,466 cf

Plug-Flow detention time= 324.5 min calculated for 10,977 cf (57% of inflow)  
 Center-of-Mass det. time= 217.2 min ( 1,011.7 - 794.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	295.50'	23,789 cf	<b>Ponding (Prismatic)</b> Listed below (Recalc)
#2	293.00'	2,177 cf	<b>Soil (Prismatic)</b> Listed below (Recalc) 18,138 cf Overall x 12.0% Voids
#3	292.33'	1,944 cf	<b>Stone (Prismatic)</b> Listed below (Recalc) 4,861 cf Overall x 40.0% Voids
		27,910 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
295.50	7,255	0	0
296.00	8,140	3,849	3,849
298.00	11,800	19,940	23,789

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
293.00	7,255	0	0
295.50	7,255	18,138	18,138

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
292.33	7,255	0	0
293.00	7,255	4,861	4,861

Device	Routing	Invert	Outlet Devices
#1	Primary	292.00'	<b>6.0" Round 6" Underdrain</b> L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.00' / 291.83' S= 0.0021 ' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf
#2	Device 1	295.50'	<b>0.250 in/hr Exfiltration To UD over Surface area above 295.50'</b> Excluded Surface area = 21,765 sf
#3	Secondary	296.00'	<b>12.0" Round Culvert</b> L= 15.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 296.00' / 295.50' S= 0.0333 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	297.50'	<b>10.0' long x 8.0' breadth Emergency Spillway</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65

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Type II 24-hr 10-YR Rainfall=3.65"

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2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.01 cfs @ 12.53 hrs HW=296.41' (Free Discharge)

↳ **1=6" Underdrain** (Passes 0.01 cfs of 1.21 cfs potential flow)

↳ **2=Exfiltration To UD** (Exfiltration Controls 0.01 cfs)

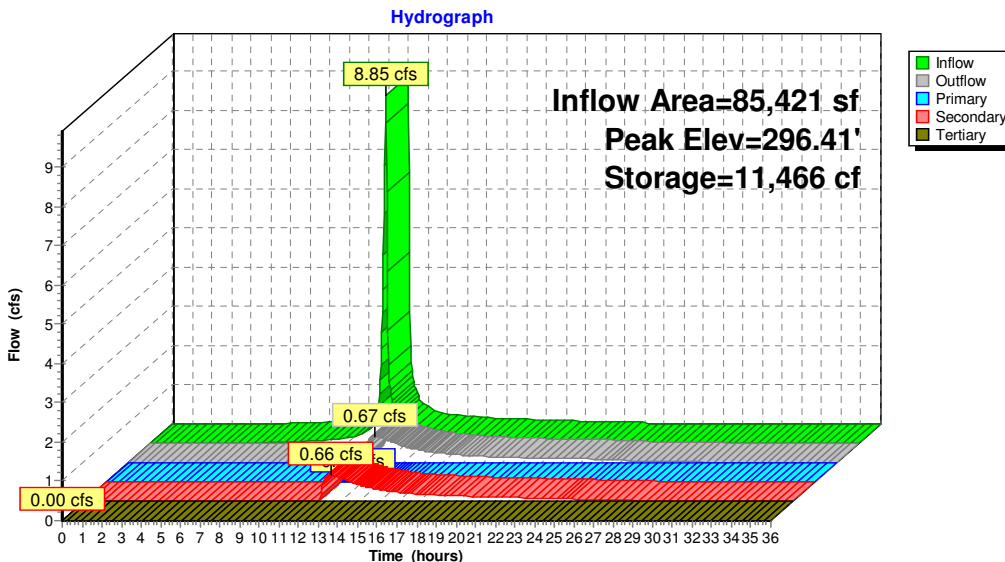
**Secondary OutFlow** Max=0.66 cfs @ 12.53 hrs HW=296.41' (Free Discharge)

↳ **3=Culvert** (Inlet Controls 0.66 cfs @ 2.18 fps)

**Tertiary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=292.33' (Free Discharge)

↳ **4=Emergency Spillway** (Controls 0.00 cfs)

**Pond 2P: BIORETENTION 2**



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Type II 24-hr 100-YR Rainfall=6.11"

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**Summary for Subcatchment 1S: PRE AREA 1**

Runoff = 4.89 cfs @ 12.09 hrs, Volume= 14,383 cf, Depth= 3.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 100-YR Rainfall=6.11"

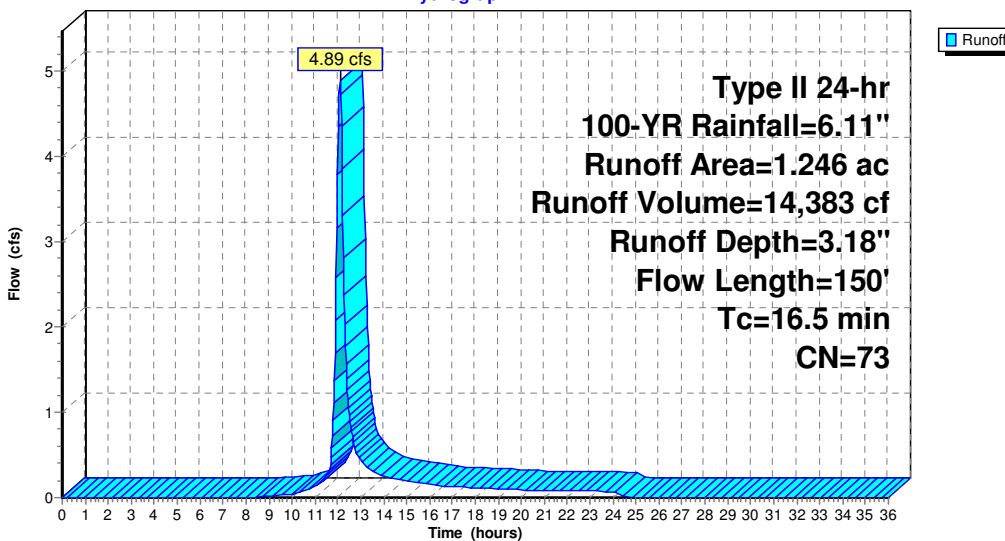
Area (ac)	CN	Description
1.246	73	Woods, Fair, HSG C
1.246		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.3	100	0.0550	0.11		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.80"
1.2	50	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
16.5	150	Total			

**Subcatchment 1S: PRE AREA 1**

Hydrograph



**4281A-HydroCAD S11**

Type II 24-hr 100-YR Rainfall=6.11"

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**Summary for Subcatchment 2S: PRE AREA 2**

Runoff = 3.63 cfs @ 12.15 hrs, Volume= 12,603 cf, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 100-YR Rainfall=6.11"

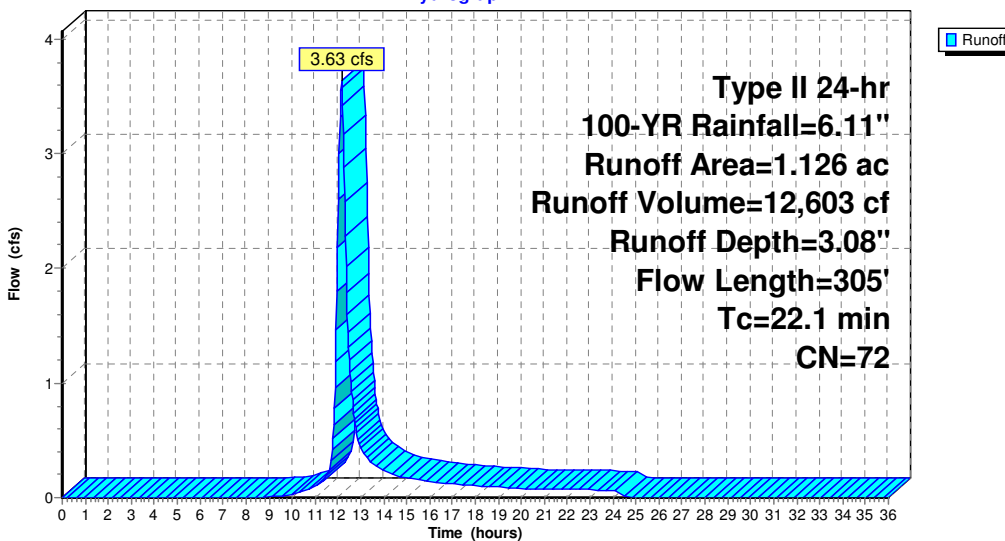
Area (ac)	CN	Description
1.126	72	Woods/grass comb., Good, HSG C
1.126		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.9	100	0.0500	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.80"
6.2	205	0.0120	0.55		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
22.1	305	Total			

**Subcatchment 2S: PRE AREA 2**

Hydrograph



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**Summary for Subcatchment 3S: PRE AREA 3**

Runoff = 10.08 cfs @ 11.98 hrs, Volume= 22,552 cf, Depth= 4.62"

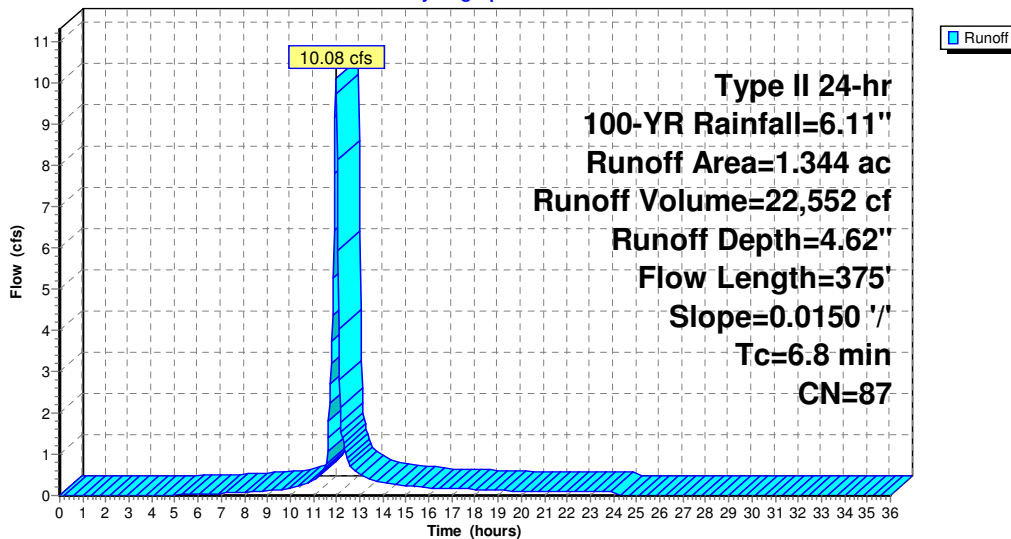
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
Type II 24-hr 100-YR Rainfall=6.11"

Area (ac)	CN	Description
* 0.751	98	Impervious, HSG C
0.593	72	Woods/grass comb., Good, HSG C
1.344	87	Weighted Average
0.593		44.12% Pervious Area
0.751		55.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0150	1.15		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.80"
5.3	275	0.0150	0.86		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.8	375	Total			

**Subcatchment 3S: PRE AREA 3**

Hydrograph



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Type II 24-hr 100-YR Rainfall=6.11"

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**Summary for Subcatchment 4S: POST AREA 1A**

Runoff = 8.52 cfs @ 11.97 hrs, Volume= 19,359 cf, Depth= 5.18"

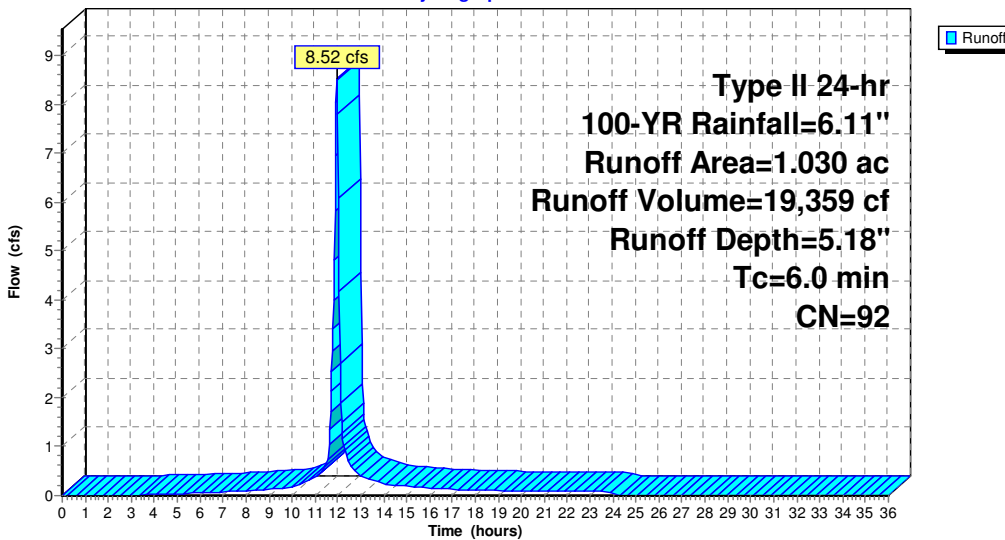
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 100-YR Rainfall=6.11"

Area (ac)	CN	Description
0.340	98	Paved parking, HSG C
0.422	98	Roofs, HSG C
0.268	74	>75% Grass cover, Good, HSG C
1.030	92	Weighted Average
0.268		26.02% Pervious Area
0.762		73.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 4S: POST AREA 1A**

Hydrograph



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Type II 24-hr 100-YR Rainfall=6.11"

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**Summary for Subcatchment 5S: POST AREA 2A**

Runoff = 16.03 cfs @ 11.97 hrs, Volume= 36,054 cf, Depth= 5.06"

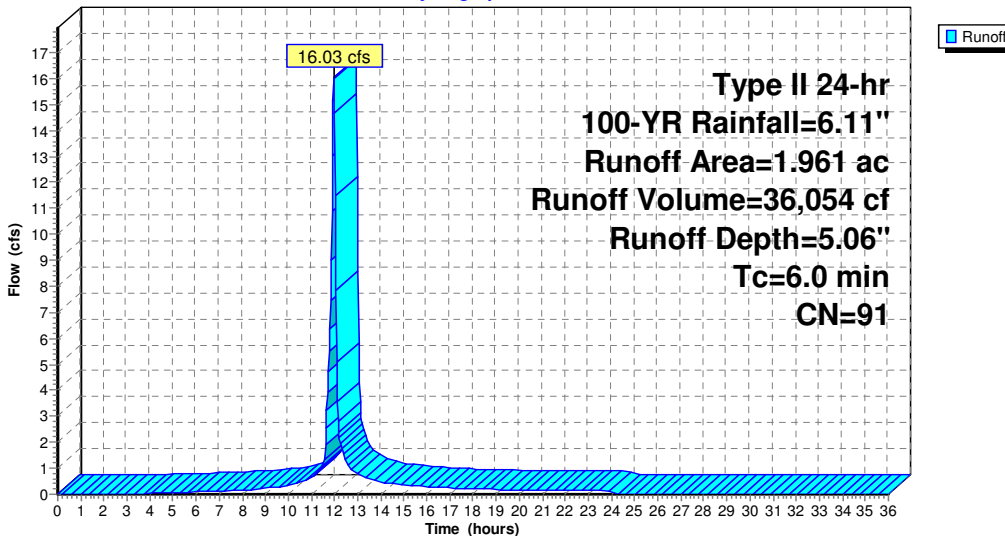
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 100-YR Rainfall=6.11"

Area (ac)	CN	Description
0.505	98	Roofs, HSG C
0.381	98	Paved parking, HSG C
* 0.490	98	Ex. Impervious, HSG C
0.585	74	>75% Grass cover, Good, HSG C
1.961	91	Weighted Average
0.585		29.83% Pervious Area
1.376		70.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 5S: POST AREA 2A**

Hydrograph



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Type II 24-hr 100-YR Rainfall=6.11"

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**Summary for Subcatchment 6S: POST AREA 3**

Runoff = 3.18 cfs @ 11.97 hrs, Volume= 6,759 cf, Depth= 4.19"

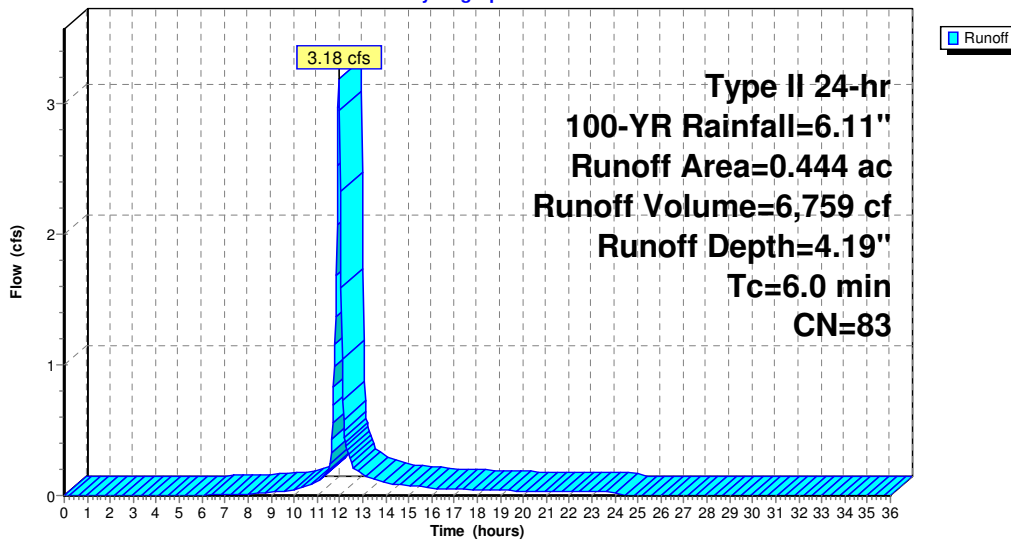
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 100-YR Rainfall=6.11"

Area (ac)	CN	Description
* 0.171	98	Impervious, HSG C
0.273	74	>75% Grass cover, Good, HSG C
0.444	83	Weighted Average
0.273		61.49% Pervious Area
0.171		38.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 6S: POST AREA 3**

Hydrograph



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Type II 24-hr 100-YR Rainfall=6.11"

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**Summary for Subcatchment 7S: POST AREA 1B**

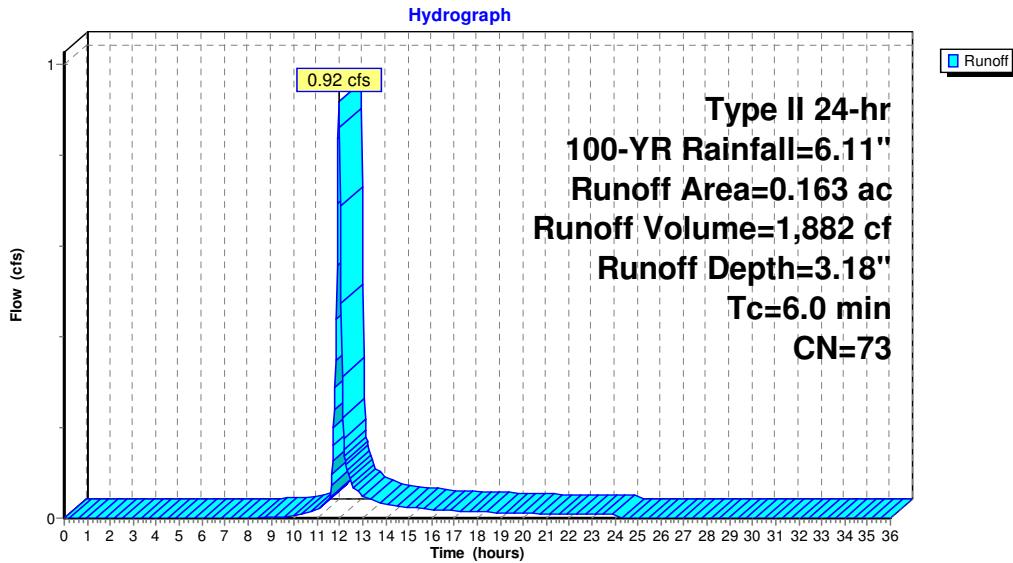
Runoff = 0.92 cfs @ 11.97 hrs, Volume= 1,882 cf, Depth= 3.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 100-YR Rainfall=6.11"

Area (ac)	CN	Description
0.163	73	Woods, Fair, HSG C
0.163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 7S: POST AREA 1B**



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Type II 24-hr 100-YR Rainfall=6.11"

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**Summary for Subcatchment 8S: POST AREA 2B**

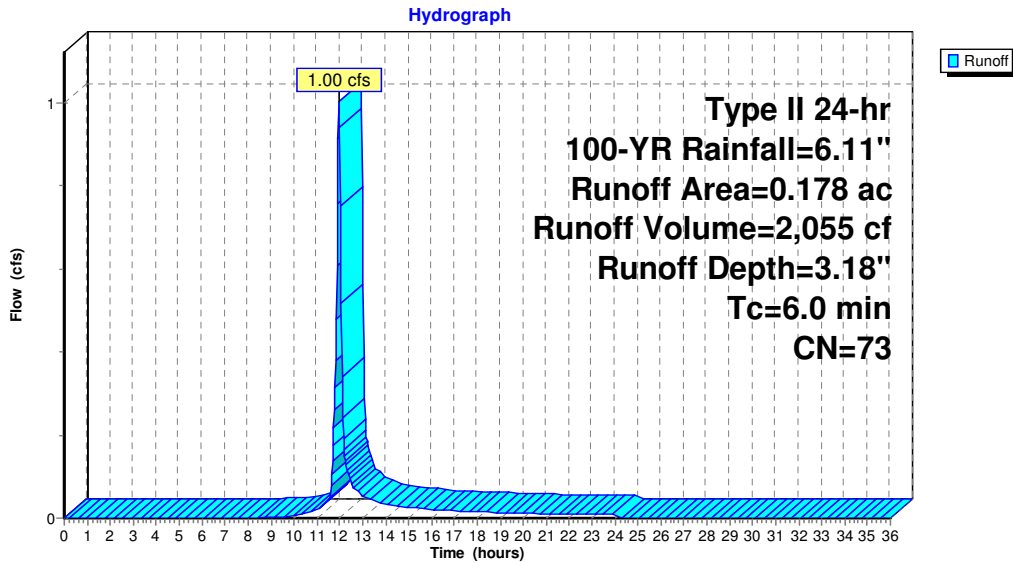
Runoff = 1.00 cfs @ 11.97 hrs, Volume= 2,055 cf, Depth= 3.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs  
 Type II 24-hr 100-YR Rainfall=6.11"

Area (ac)	CN	Description
0.178	73	Woods, Fair, HSG C
0.178		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 8S: POST AREA 2B**



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Type II 24-hr 100-YR Rainfall=6.11"

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**Summary for Pond 1P: BIORETENTION 1**

Inflow Area = 44,867 sf, 73.98% Impervious, Inflow Depth = 5.18" for 100-YR event  
 Inflow = 8.52 cfs @ 11.97 hrs, Volume= 19,359 cf  
 Outflow = 2.46 cfs @ 12.10 hrs, Volume= 15,295 cf, Atten= 71%, Lag= 8.0 min  
 Primary = 2.46 cfs @ 12.10 hrs, Volume= 15,295 cf  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs / 2  
 Peak Elev= 296.54' @ 12.10 hrs Surf.Area= 12,335 sf Storage= 9,392 cf

Plug-Flow detention time= 161.7 min calculated for 15,283 cf (79% of inflow)  
 Center-of-Mass det. time= 81.0 min ( 854.2 - 773.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	295.00'	16,485 cf	<b>Ponding (Prismatic)</b> Listed below (Recalc)
#2	292.50'	1,023 cf	<b>Soil (Prismatic)</b> Listed below (Recalc) 8,525 cf Overall x 12.0% Voids
#3	291.83'	914 cf	<b>Stone (Prismatic)</b> Listed below (Recalc) 2,285 cf Overall x 40.0% Voids
		18,422 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
295.00	4,210	0	0
296.00	5,030	4,620	4,620
298.00	6,835	11,865	16,485

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
292.50	3,410	0	0
295.00	3,410	8,525	8,525

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
291.83	3,410	0	0
292.50	3,410	2,285	2,285

Device	Routing	Invert	Outlet Devices
#1	Primary	291.50'	<b>12.0" Round 12" Pipe</b> L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.50' / 291.30' S= 0.0040 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	292.00'	<b>6.0" Round 6" Underdrain</b> L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.00' / 291.83' S= 0.0021 '/ Cc= 0.900 n= 0.012, Flow Area= 0.20 sf
#3	Device 2	295.00'	<b>0.250 in/hr Exfiltration To UD over Surface area above 295.00'</b> Excluded Surface area = 11,030 sf
#4	Device 1	295.50'	<b>1.0" x 3.0" Horiz. Grate X 8.00 columns</b> X 3 rows C= 0.600 in 24.0" Grate (16% open area) Limited to weir flow at low heads
#5	Secondary	297.00'	<b>10.0' long x 10.0' breadth Emergency Spillway</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60

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Type II 24-hr 100-YR Rainfall=6.11"

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Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

**Primary OutFlow** Max=2.46 cfs @ 12.10 hrs HW=296.54' (Free Discharge)

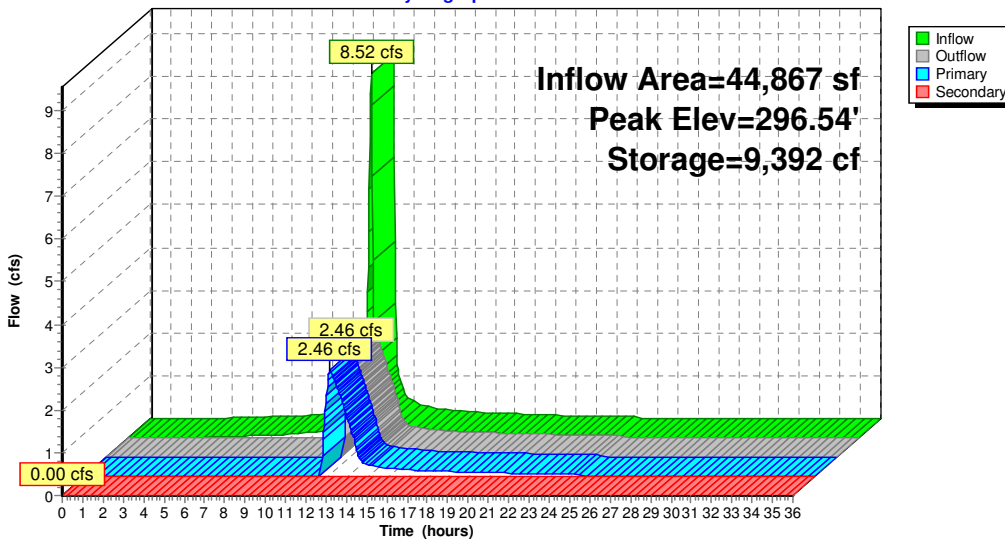
- 1=12" Pipe (Passes 2.46 cfs of 7.40 cfs potential flow)
- 2=6" Underdrain (Passes 0.01 cfs of 1.23 cfs potential flow)
- 3=Exfiltration To UD (Exfiltration Controls 0.01 cfs)
- 4=Grate (Orifice Controls 2.45 cfs @ 4.90 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=291.83' (Free Discharge)

- 5=Emergency Spillway (Controls 0.00 cfs)

**Pond 1P: BIORETENTION 1**

Hydrograph



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Type II 24-hr 100-YR Rainfall=6.11"

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**Summary for Pond 2P: BIORETENTION 2**

Inflow Area = 85,421 sf, 70.17% Impervious, Inflow Depth = 5.06" for 100-YR event  
 Inflow = 16.03 cfs @ 11.97 hrs, Volume= 36,054 cf  
 Outflow = 3.29 cfs @ 12.13 hrs, Volume= 27,905 cf, Atten= 79%, Lag= 9.9 min  
 Primary = 0.02 cfs @ 12.13 hrs, Volume= 649 cf  
 Secondary = 3.27 cfs @ 12.13 hrs, Volume= 27,256 cf  
 Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs / 2  
 Peak Elev= 297.25' @ 12.13 hrs Surf.Area= 24,937 sf Storage= 19,569 cf

Plug-Flow detention time= 220.1 min calculated for 27,882 cf (77% of inflow)  
 Center-of-Mass det. time= 136.4 min ( 913.5 - 777.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	295.50'	23,789 cf	<b>Ponding (Prismatic)</b> Listed below (Recalc)
#2	293.00'	2,177 cf	<b>Soil (Prismatic)</b> Listed below (Recalc) 18,138 cf Overall x 12.0% Voids
#3	292.33'	1,944 cf	<b>Stone (Prismatic)</b> Listed below (Recalc) 4,861 cf Overall x 40.0% Voids
		27,910 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
295.50	7,255	0	0
296.00	8,140	3,849	3,849
298.00	11,800	19,940	23,789

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
293.00	7,255	0	0
295.50	7,255	18,138	18,138

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
292.33	7,255	0	0
293.00	7,255	4,861	4,861

Device	Routing	Invert	Outlet Devices
#1	Primary	292.00'	<b>6.0" Round 6" Underdrain</b> L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.00' / 291.83' S= 0.0021 ' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf
#2	Device 1	295.50'	<b>0.250 in/hr Exfiltration To UD over Surface area above 295.50'</b> Excluded Surface area = 21,765 sf
#3	Secondary	296.00'	<b>12.0" Round Culvert</b> L= 15.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 296.00' / 295.50' S= 0.0333 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	297.50'	<b>10.0' long x 8.0' breadth Emergency Spillway</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65

**4281A-HydroCAD S11**

Type II 24-hr 100-YR Rainfall=6.11"

Prepared by ABD Engineers, LLP

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2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.02 cfs @ 12.13 hrs HW=297.25' (Free Discharge)

↳ **1=6" Underdrain** (Passes 0.02 cfs of 1.33 cfs potential flow)

↳ **2=Exfiltration To UD** (Exfiltration Controls 0.02 cfs)

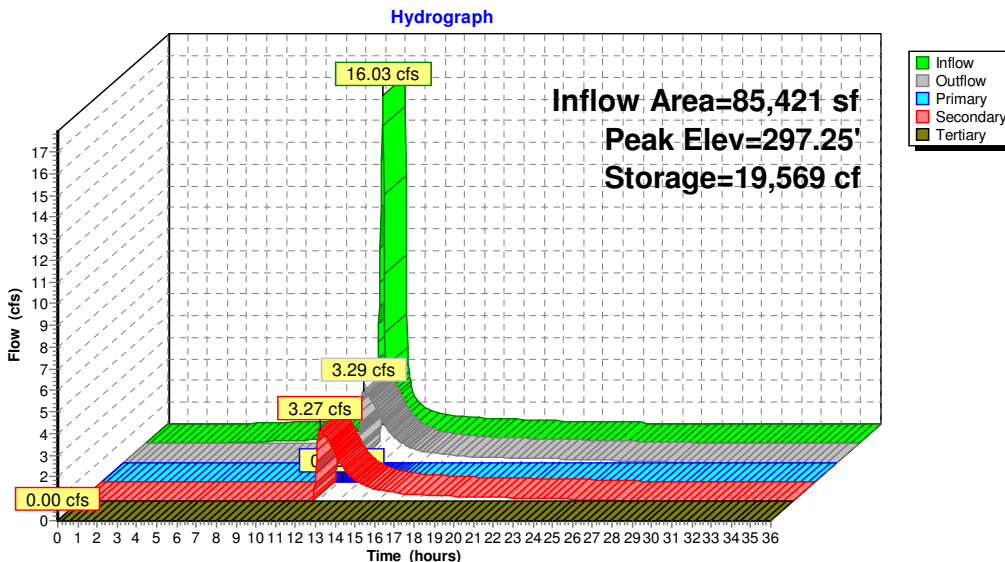
**Secondary OutFlow** Max=3.27 cfs @ 12.13 hrs HW=297.25' (Free Discharge)

↳ **3=Culvert** (Inlet Controls 3.27 cfs @ 4.16 fps)

**Tertiary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=292.33' (Free Discharge)

↳ **4=Emergency Spillway** (Controls 0.00 cfs)

**Pond 2P: BIORETENTION 2**



**STORMWATER POLLUTION  
PREVENTION PLAN**

FOR

A-METRO ALTAMONT SELF STORAGE  
4773 Western Turnpike  
Town of Guilderland  
Albany County, New York

Prepared For:

RJR Units LLC  
4773 Western Turnpike  
Guilderland, NY 12009

May 15, 2020

Revised February 19, 2021  
*Revised April 12, 2021*

Project No. 4281B

Prepared By:

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## STORMWATER POLLUTION PREVENTION PLAN

A-METRO ALTAMONT SELF STORAGE  
 4773 Western Turnpike  
 Town of Guilderland  
 Albany County, New York

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### APPENDICES

EXHIBIT 1- SITE LOCATION MAP & SOIL INFORMATION

APPENDIX A- SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES  
FROM CONSTRUCTION ACTIVITY

APPENDIX B- MS4 ACCEPTANCE FORM, NOTICE OF INTENT (NOI), NOTICE  
OF TERMINATION (NOT) FORM

APPENDIX C- EROSION AND SEDIMENT CONTROL STANDARDS AND  
SPECIFICATIONS

APPENDIX D- SWPPP FORMS

## STORMWATER POLLUTION PREVENTION PLAN

A-METRO ALTAMONT SELF STORAGE  
 4773 Western Turnpike  
 Town of Guilderland  
 Albany County, New York

### 1.0 SITE DESCRIPTION

#### 1.1 PROJECT NAME AND LOCATION

A-METRO ALTAMONT SELF STORAGE  
 4773 Western Turnpike  
 Town of Guilderland  
 Albany County, New York

#### 1.2 OWNER NAME AND ADDRESS

RJR Units LLC  
 4773 Western Turnpike  
 Guilderland, NY 12009

#### 1.3 PLANS AND REPORTS

Plans and additional reports to be used in conjunction with this Stormwater Pollution Prevention Plan (SWPPP) are as follows:

- Plans entitled “A-Metro Altamont Self Storage”, prepared by ABD Engineers, LLP, dated March 17, 2020, as revised.
- Stormwater Management Report for “A-Metro Altamont Self Storage, 4773 Western Turnpike” prepared by ABD Engineers, LLP, 411 Union Street, Schenectady, NY 12305, dated May 15, 2020, as revised.

#### 1.4 DESCRIPTION: (PURPOSE AND TYPES OF SOIL DISTURBING ACTIVITIES)

RJR Units LLC is proposing the redevelopment of a 10.6± acre parcel located at 4773 Western Turnpike in the Town of Guilderland, Albany County, New York (see Exhibit 1). The site is bordered on the west by residential houses, on the east by a commercial business, on the north by a stream and on the south by Western Turnpike.

The Applicant is proposing to construct additional self-storage buildings as an expansion to the existing facility. Construction includes five (5) storage buildings with associated asphalt pavement, and stormwater management areas. Access to the site

will continue to be from Western Turnpike. The existing facility will remain undisturbed and consists of six (6) storage buildings, a house, asphalt pavement, and stormwater management areas. The original development has SPDES permit coverage under ID# NYR10W032.

According to the Albany County NRCS soil map, the predominant soil group is Type C, loamy fine sand. The existing site in the area of redevelopment drains southwest to a driveway culvert and north to the existing stream. All runoff ultimately flows to the Watervliet Reservoir.

Soil disturbing activities include cuts and fills to produce suitable grades for construction of the referenced components. Installation of utilities will require trench excavation and backfilling.

#### **1.5 STORMWATER MANAGEMENT**

See Stormwater Management Report.

##### **1.5A STORMWATER MANAGEMENT & PLANNING PER CHAPTER 3&4 OF THE NYSDEC STORMWATER MANAGEMENT DESIGN MANUAL AUGUST 2015**

- a. *Site planning to preserve natural features and reduce impervious cover;* The development is mainly limited to flat wooded areas. Impervious surfaces included in the proposed project are asphalt pavement and building rooftop.
- b. *Calculation of the Water Quality Volume for the Site;* The water quality volume calculation has been provided in the referenced stormwater management report and meets NYSDEC stormwater regulations. The water quality volume has been provided based on minimum RRV due to the soils and topography of the site. The onsite soil type is poorly drained, which does not allow for the use of infiltration practices.
- c. *Incorporation of Green Infrastructure Techniques and Standard SMP's with Runoff Reduction Volume (RRV) Capacity;* Stormwater from the developed area will be treated through the use of bioretention practices and meets WQv and minimum RRV requirements.
- d. *Design of Volume and Peak Rate Control Practices;* This project meets or exceeds NYSDEC stormwater regulations. Calculations and further discussions are attached to the stormwater management report prepared for this project. Stormwater draining to the bioretention practices will be

treated and will discharge through the outlet control structures at rates less than the pre-development condition.

#### **1.6 SEQUENCE OF MAJOR ACTIVITIES**

The following is the general sequence of construction that will occur on the site.

- 1.61 Site Preparation.** Silt fence will be installed all along the descending slopes of the limits of grading and at any other location where siltation may occur. The silt fence shall remain in place until all areas being served are stabilized. A temporary construction entrance shall be established to capture mud and debris from construction vehicles before they enter public roads. Clearing and earth disturbance shall be limited to that necessary to install temporary sediment control measures.
- 1.62 Rough Grading.** Trees and other vegetation will be removed from areas to be disturbed. Some topsoil stripping and stockpiling will take place to be used later in landscaped areas. Earthmoving to grade the site to approved finish grades may then occur. Any additional required silt fence will be installed. There shall not be more than five (5) acres of disturbed soil at any one time without prior written approval from the Department of Environmental Conservation.
- 1.63 Building Site Preparation.** The location of the buildings will be graded to establish the finished floor elevation.
- 1.64 Utility Installation.** Drainage facilities will be installed once subgrades are established and fills are compacted.
- 1.65 Paving.** Drive aisles will be paved.
- 1.66 Landscaping.** Topsoil will be spread on areas to be landscaped and areas will be planted/seeded in accordance with the plans. All disturbed areas must be stabilized. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased.

#### **1.7 NAME OF RECEIVING WATERS**

The nearest surface body of water is a tributary of the Watervliet Reservoir.

## 2.0 CONTROLS

### 2.1 EROSION AND SEDIMENT CONTROLS. STABILIZATION PRACTICES.

Disturbed areas within the limits of grading will be stabilized by planting/seeding and mulching. Where seeding stabilization is needed, perennial rye grass applied at a rate of 150 pounds per acre may be used. All seeded areas are then to be mulched using straw mulch at a rate of 2 ton per acre. If anchoring of the straw mulch is needed, wood fiber mulch may then be applied at a rate of 500 pounds per acre.

### 2.2 STRUCTURAL PRACTICES.

Silt fence or straw bale dikes will be placed on the downhill side of exposed slopes and trenches before clearing or excavation take place. The silt fence shall be Amoco 1380 geotextile fabric, or equal, attached to 2"x2" minimum wooden stakes as per manufacturer's recommendations as shown on the "Erosion and Sediment Control Details". It shall remain and be inspected and maintained until the site is stabilized. Maintenance shall be performed as needed, and sediment material removed when "bulges" develop in the silt fence. Inspections of the straw bale dikes shall be frequent, and repair replacements shall be made promptly as needed. Silt barriers will also be installed in the flow line of drainage channels and ditches. Erosion control barriers will be supplemented as necessary during construction and will be maintained throughout the duration of site construction activity by the Contractor.

Runoff will be directed away from excavated areas, and temporary swales will be installed with a minimum grade of one percent. Stabilization shall occur as soon as practicable.

Watering of excavation and fill areas to minimize wind erosion during construction should be accomplished as required.

Stabilization in areas where soil disturbance has temporarily or permanently ceased must be initiated by the end of the next business day and completed within 14 days. During winter construction from November 15 to the following April 1, the application of soil stabilization measures should be initiated by the end of the next business day and completed within three (3) days, in areas where soil disturbance activity has temporarily or permanently ceased.

At any location where surface runoff from disturbed or graded areas may flow off the construction area, temporary sediment control measures must be installed to prevent sediment from traveling off site. No grading, filling, or other disturbance is allowed within existing drainage swales.

At the end of each workday during earthwork, operators shall grade all areas to temporary detention trap(s). Temporary traps shall be dewatered after all rainfall events if captured water does not infiltrate within 24 hours after the end of rainfall. Traps should be dewatered to sediment bags located in relatively level areas, preferably undisturbed areas of native vegetation. At no time shall a trap be dewatered directly to a stream or wetland.

Twice every 7-calendar days, a qualified inspector will inspect all erosion control measures employed during construction activities to measure proper performance. The inspection will include taking digital photos of all E&SC measures needing corrective action as well as digital photos with date stamp of the corrected work. Any points of stormwater discharge from the site are also to be observed during the site inspections and condition reported.

In areas where construction would take place in “wet soils”, curtain drains or subsurface drainage will be installed to de-water the soils.

Construction vehicle traffic will be directed so as to avoid steep slopes and areas to remain vegetated to the maximum extent practicable. The Contractor will be held responsible for any soil exposure and/or erosion that occurs outside the defined limits of work and haul roads, and will immediately install erosion control measures and stabilize disturbed areas. Furthermore, any fines that could arise as a result of improper implementation of this Stormwater Pollution Prevention Plan (SWPPP) will be the responsibility of the Contractor. Only the owner or his designated representative will have the authority to authorize Contractor-requested disturbance beyond the limits on these plans. Any applicant-authorized changes will require signatory certification using the form in this Stormwater Pollution Prevention Plan.

To prevent sediment-laden water from entering the storm drain system through the inlets, all catch basins will be protected by the “fabric barrier drop inlet protection” practice until the drainage areas served by these catch basins are stabilized. The fabric barrier shall be inspected after each rain event and repairs made as needed. Sediment shall be removed as necessary and disposed of properly.

Locate temporary topsoil stockpiles in areas, which do not receive direct runoff from swales or streams. The temporary topsoil stockpiles shall be protected with diversion swales if necessary.

Locate temporary topsoil stockpile areas beyond proposed grading activities.

To minimize erosion potential, enclose temporary topsoil stockpile areas with silt fencing.

Seed temporary topsoil stockpile areas to reduce erosion if stored for prolonged periods.

All silt or sediment accumulations will be cleaned from stormwater management basins.

All temporary sediment traps and all drainage swales will be kept free of debris and litter, and the vegetation should be maintained to allow unobstructed flow of stormwater.

Any slopes or embankments, which have damaged vegetation, will be reseeded as necessary.

All grass swale areas will be mowed so as to facilitate unobstructed flow of stormwater.

## **2.3 OTHER CONTROLS**

### **2.31 Waste Disposal**

#### ***2.311 Waste Materials:***

All waste materials generated during site preparation and construction will be disposed of at a suitable landfill, transfer station or C & D landfill. The contractors shall inspect for and have litter picked up on a daily basis.

#### ***2.312 Hazardous Waste***

The project will not be a generator of hazardous waste and it is not anticipated that any hazardous waste will be generated during construction. If there are any materials generated, a licensed hazardous waste carrier will be contracted to dispose of the hazardous material at a suitable disposal site. If hazardous materials are discovered during construction, the work will be stopped until the issue is resolved.

#### ***2.313 Sanitary Waste***

Portable sanitary facilities will be made available to construction personnel and will be serviced regularly.

**2.32 Offsite Vehicle Tracking.**

Earthwork equipment involved with the construction will remain on the project site and will not regularly egress or ingress the site. Any trucks used to bring in materials or remove materials will do so over a stabilized construction entrance so as to capture mud and debris before they enter the public highway. The stabilized construction entrance shall be 50 feet minimum in length by 24 feet minimum in width. Typar 3401, or equal, filter cloth will be placed over the entire area prior to the placement of 6 inches of 2" stone. The entrance shall be maintained in a condition that will prevent tracking, or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand. Periodic inspection and needed maintenance shall be provided after each rain. If significant off-site vehicle tracking begins to occur, the contractor will be directed to institute a regular street sweeping program in the vicinity of the site.

**3.0 TIMING OF CONTROLS/MEASURES**

Prior to commencement of construction activity, 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 within this SWPPP. Temporary structural erosion controls will be installed prior to earthwork as per the aforementioned plans.

The Owner shall have a qualified inspector conduct an assessment of the site prior to the commencement of construction, and certify in an inspection report that the appropriate erosion and sediment controls described in this SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

The Owner shall maintain a record of all inspection reports in a site logbook. The site logbook shall be maintained on site and made available upon request. Prior to the commencement of construction, the Owner shall certify in the site logbook that the SWPPP meets all federal, state and local erosion and sediment control requirements.

The Owner shall also prepare and submit to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity during which coverage under the permit exists. The summary should address the status of achieving each component of the SWPPP. The summary shall be certified, signed, retained on site, and

made available to the Department of Environmental Conservation and/or any local agency having jurisdiction.

Signatory Requirements – All NOIs, NOTs, SWPPPs, reports, certifications or information required by this permit or submitted pursuant to this permit, shall be signed as follows:

1. All NOIs and NOTs shall be signed as follows:
  - a. For a corporation: by (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person authorized to and who performs similar policy or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25,000,000 (in second-quarter 1980 dollars) if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
  - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
  - 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. The SWPPP and all reports required by the permit and other information requested by the Department or local agency shall be signed by a person described above 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 above and submitted to the Department.
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or 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 named individual or any individual occupying a named position).
  - c. Certification – Except for NOIs and NOTs, any person signing documents in accordance with this Part shall 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 gathered and evaluated 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 false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.”

Structural erosion controls and non-stabilized areas shall be inspected twice every 7-calendar days by a qualified inspector. Copies of the Weekly Inspection Form located at the end of this report shall be completed in full for every inspection performed. Completed inspection forms shall be retained on site and copies to the Town MS4.

To prevent sediment-laden water from entering the storm drain system through the inlets, all catch basins will be protected by the “fabric barrier drop inlet protection” practice until the drainage areas served by these catch basins are stabilized. The fabric barrier shall be inspected after each rain event and repairs made as needed. Sediment shall be removed as necessary and disposed of properly.

All temporary sediment basins shall be pumped out within 24 hours of the end of all rainfall events if stormwater has not drained or infiltrated.

Temporary erosion control devices will not be removed until the growth of vegetation or other erosion control measures stabilizes the area served.

In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased.

The Owner and Contractor shall retain copies of the Stormwater Pollution Prevention Plan, all reports, and data for a minimum of five years following final stabilization of the site.

During construction of the project, all inspection, maintenance, and repair procedures as stated in this Stormwater Pollution Prevention Plan are the ultimate responsibility of The Owner, his heirs or assigns.

All temporary measures that were installed in accordance with this Stormwater Pollution Prevention Plan shall remain the ultimate responsibility of The Owner, his heirs or assigns until such time as all areas being served are stabilized. Only after this stabilization occurs may these temporary measures be removed. 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 80% 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 stormwater associated with construction activities, and a Notice of Termination (NOT) form has been filed by the Owner(s) with the NYSDEC. 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 long term post-construction inspection, maintenance, and repair procedures as stated in this Stormwater Pollution Prevention Plan will be performed by the Owner, his heirs or assigns.

The Owner, his heirs or assigns will have the ultimate responsibility of the long-term maintenance, and repair procedures for all of the entire stormwater system as shown on the plans. An operations and maintenance manual for the Stormwater Management Control Practices will be given to The Owner, his heirs or assigns, which will include the inspection checklist from the "New York State Stormwater Management Design Manual."

#### **4.0 CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS**

The Owner has petitioned the NYSDEC for the stormwater 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) (using the form required by the federal, state, and/or local permitting agency) to be covered under this permit has been filed by the Owner. The SWPPP must be prepared prior to submittal of the NOI form. The Contractor is a co-permittee with the owner.

The NYSDEC requires that certifications of knowledge of the contents of this SWPPP and agreement to follow the SWPPP be made by the Owner and the Contractor. The terms of the General Permit also require that each Contractor sign the SWPPP, thereby making them co-permittees and acknowledging their responsibility for certain operational aspects of the plan. These certifications should be signed before the Contractor begins activities and should be filed with the site's SWPPP at the jobsite. These certifications are provided within this document.

The Stormwater Pollution Prevention Plan was prepared in accordance with the New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges from Construction Activities that are classified as "Associated with Construction Activity" pursuant to Article 17, Titles 7, 8 and

Article 70 of the Environmental Conservation Law. This SPDES General Permit implements the Federal Clean Water Act pertaining to stormwater discharges. Construction will begin only after the requirements of SEQRA are met and local permits issued.

The Contractor will obtain copies of any and all local and state regulations, which are applicable to stormwater 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 Owner or any agent of a regulatory body. The Contractor will comply with all conditions of the NYSDEC General Permit for Construction Activities, including the conditions related to maintaining the Stormwater Pollution Prevention Plan (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.

## **5.0 MAINTENANCE/INSPECTION PROCEDURES**

### **5.1 EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES**

These are the inspections and maintenance practices that will be used to maintain erosion and sediment controls:

- A trained individual, appointed by the Contractor's construction manager, will supervise day to day activities on the site during soil disturbing activities. A qualified inspector, appointed by the Owner, will make at least two weekly inspections every 7-calendar days of erosion control devices, as well as inspections with site photographs.
- All measures will be maintained in good working order and be fully operational. If repair is necessary, it will be initiated within 24 hours of discovery.
- A qualified inspector must look for evidence of the soil erosion on the site, potential of pollutants entering drainage systems, problems at discharge points (such as turbidity in receiving water), and signs of soil and mud transport from the site to the public road at the entrance.
- Silt fence maintenance shall be performed as needed, and sediment material removed when "bulges" develop in the silt fence.
- Built up sediment will be removed from silt fence and straw bales if it ever reaches one-third the height of the structural control.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.

- All temporary sediment traps should be inspected for stability and integrity once a week and after any storm event. Any structural failure in sediment traps or trenches that serve them will be repaired within 24 hours after detection.
- All temporary sediment traps shall be pumped dry after all rainfall events that cause water to accumulate in the basins. Basins shall be dewatered to an undisturbed upland area.
- All temporary sediment traps shall be cleaned out when one half the design depth of the basin has accumulated. All spoils shall be removed to a stabilized upland area.
- The “fabric barrier drop inlet protection”, put in at all catch basins to keep sediment from entering the storm drain system, shall be inspected after each rain event and repairs made as needed. Sediment shall be removed as necessary and disposed of properly.
- Stabilized construction entrance inspection and needed maintenance shall be provided after each rain.
- The trained individual shall inspect for and have litter picked up on a daily basis.
- Where seeding stabilization is needed, perennial ryegrass applied at a rate of 150 pounds per acre may be used. All seeded areas are then to be mulched using straw mulch at a rate of 2 ton per acre. If anchoring of the straw mulch is needed, wood fiber mulch may then be applied at a rate of 500 pounds per acre.
- Seeded and planted areas will be inspected for bare spots, washouts and healthy growth. If necessary, replanting, reseeding or sodding will be implemented.
- A maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the inspector is attached. Reports should be compiled and maintained on site.

## **5.2 NON-STORMWATER DISCHARGES**

Any water collected in excavated areas will be pumped to a sediment bag located in an upland area or a sediment trap. Once the material is dewatered, sediment will be removed to an upland area.

## **6.0 INVENTORY FOR POLLUTION PREVENTION PLAN: SPILL PREVENTION**

### **6.1 MATERIAL MANAGEMENT PRACTICES**

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

### **6.11 Good Housekeeping**

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

- An effort will be made to store only enough product required to do the job.
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers, and if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer,
- Whenever possible, all of a product will be used up before disposal.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The trained individual will inspect daily to ensure proper use and disposal of materials onsite.
- The contractor shall prohibit washing of tools, equipment and machinery in or within 100 feet of any watercourse or wetland and install sediment traps to filter runoff from washing operations that could enter any watercourse.

### **6.12 Hazardous Products**

These practices are used to reduce the risks associated with hazardous materials:

- Products will be kept in original containers unless they are not resealable.
- Original labels and material safety data sheets will be retained; they contain important product information.
- If surplus product must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

## **6.2 PRODUCT SPECIFIC PRACTICES**

The following product specific practices will be followed onsite:

### **6.21 Petroleum Products**

- Construction personnel should be made aware that emergency telephone numbers are located in this SWPPP
- The contractor shall immediately contact NYSDEC in the event of a spill, and shall take all appropriate steps to contain

the spill including constructing a dike around the spill and placing absorbent material over this spill.

- The contractor shall instruct personnel that spillage of fuels, oils, and similar chemicals must be avoided.
- Fuels, oils and chemicals will be stored in appropriate and tightly capped containers. Containers shall not be disposed of on the project site.
- Store fuels, oils, chemicals, material and equipment and locate sanitary facilities away from trees and at least 100 feet from streams, wells, wet areas, and other environmentally sensitive sites.
- Dispose of chemical containers and surplus chemicals off the project site in accordance with label directions.
- Use tight connections and hoses with appropriate nozzles in all operations involving fuels, lubricating materials or chemicals.
- Use funnels when pouring fuels, lubricating materials or chemicals.
- Refueling and cleaning of construction equipment will take place from access roads, in staging areas along roadside areas whenever practical to provide rapid response to emergency situations.
- All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Any vehicle leaking fuel or hydraulic fuel will be immediately removed from the site.

#### **6.22 Fertilizer**

Fertilizer will be stored in original containers and on pallets. Proper delivery scheduling will minimize storage time. Any damaged containers will be repaired immediately upon discovery and any released fertilizer recovered to the fullest extent practicable.

#### **6.23 Paints**

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm water or wastewater system, but will be properly disposed of according to manufacturers' instructions or State and local regulations.

#### **6.24 Concrete Trucks**

Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site except in a designated upland area.

Concrete truck washout will not be allowed to discharge into waters or wetlands at any time.

### 6.25 Asphalt Trucks

Asphalt trucks shall not discharge surplus asphalt on the site.

### 6.3 SPILL CONTROL PRACTICES

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be implemented for spill prevention and cleanup:

- Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies. Any spill in excess or suspected to be in excess of two gallons will be reported to the NYSDEC Spill Response Unit. Notification to NYSDEC (1-800-457-7362) must be completed within two hours of the discovery of the spill.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not be limited to: absorbent pads, brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with spilled substance.
- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of the size.
- The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring, and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- The contractor/trained individual will be the spill prevention and cleanup coordinator. He will designate at least three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area on the onsite construction office or trailer.
- A *Spill Response Report* is contained in the SWPPP Forms.

### 7.0 LONG TERM POST-CONSTRUCTION INSPECTION AND MAINTENANCE

Post-construction regularly scheduled inspections and maintenance will be necessary to ensure the permanent structural features, such as the stormwater management basins and the conveyance system components, remain optimally

functional. Inspections are to be completed at least twice a year (spring/fall) and after major rain events (>3 inches).

The “Owner” shall overtake responsibility of inspecting and maintaining drainage and erosion control features over the lifetime of the system. It will be the responsibility of the Owner for documenting these inspections and any corrective measures implemented. Maintenance personnel, employed by the Owner, must be aware of the SWPPP and should be trained to recognize signs of poor performance or failure. Inspection and maintenance should be performed as described below.

All disturbed grass areas shall be restored in accordance with the soil restoration requirements listed in Table 5.3 of the NYS Stormwater Design Manual. Ongoing maintenance shall be carried out per Section 5.1.6 of the Manual to ensure lasting results of decompaction.

### **Inspection**

#### ***Overall Site Inspection***

The overall site, embankments, and vegetation should be inspected regularly after every major rain event and at least twice a year (after the spring thaw and in the fall). The inspection should include but are not limited to:

1. Density and condition of vegetation and ground cover.
2. Erosion, differential settlement or cracking of embankment.
3. Bulging or sliding of toe of embankments.
4. Sedimentation of on-site or downstream water bodies.
5. Sedimentation of swales.
6. Sedimentation of lawn & paved areas.
7. Accumulation of pollutants, including oils or grease.
8. Damage of fatigue of storm associated components.

#### ***Overall Site Maintenance***

Maintenance vegetative and structural measures for soil protection is necessary to keep the storm water system functioning properly. Maintenance should include but is not limited to:

##### **Seasonal Maintenance**

1. Vegetated areas should be maintained to promote vigorous and dense growth. Lawn areas within the stormwater facility shall be mowed periodically and may require more frequent mowing depending on the growth rate.
2. Deicing materials on paved areas should be kept to a minimum.
3. Accumulation of litter and debris should be removed during each mowing or sweep operation.
4. Cleanout of the basins should occur when accumulation of sediments and debris are within six inches of the outlet pipe.

5. Swale and drainage way maintenance will include periodic mowing, occasional spot reseeding and weed control. Weeds and woody plants should be eradicated or cut back since they reduce the efficiency of the drainage way.
6. Stone fill areas that show signs of scour or full of silt should be repaired. Weeds and brush growth at the inlets and outlets should be controlled as needed.
7. Re-mulching once a year is necessary to ensure proper function of the Bioretention area. Sediment should be removed and filter media should be replaced if dewatering exceeds 48 hours.

**Stormwater Management Maintenance**

1. Accumulation of litter and debris should be removed during each inspection.
2. Structural components of the basin, which require repair or replacement, should be addressed immediately following identification.
3. Basins should be monitored periodically for sediment accumulation. Sediments should be removed when more than 1 inch has accumulated.
4. Culverts, end sections and rip rap areas should be cleared of obstructions and repaired as needed.
5. Any damage due to scour shall be repaired.
6. All catch basin sumps should be cleaned periodically.

***Bioretention Maintenance***

The site contractor should inspect and clean all components of the bioretention areas once 85% or more grass vegetative stabilization has occurred and prior to turning it over to the owner. Once complete, the owner will be responsible for inspection and maintenance. The swales and storm piping should also be inspected after major rain events. Yard waste shall not be deposited within the bioretention areas and subsequent inspections by the owner should look for these and remove if found to exist. Sediments should be removed as needed based on inspections.

**8.0 POLLUTION PREVENTION PLAN 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 gathered and evaluated 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 false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Signed: \_\_\_\_\_

Name: Joseph J. Bianchine, P.E.

Title: Professional Engineer, ABD Engineers, LLP

Date: \_\_\_\_\_



**9.0 OWNER'S CERTIFICATION**

A-METRO ALTAMONT SELF STORAGE  
4773 Western Turnpike  
Town of Guilderland  
Albany County, New York

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 gathered and evaluated 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 false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

The Owner also certifies that all appropriate stormwater control measures will be in place before commencement of construction of any segment of the project that requires such measures.

**Signature:** \_\_\_\_\_

**Name (printed):** \_\_\_\_\_

**Company Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_  
\_\_\_\_\_

**Telephone No:** \_\_\_\_\_

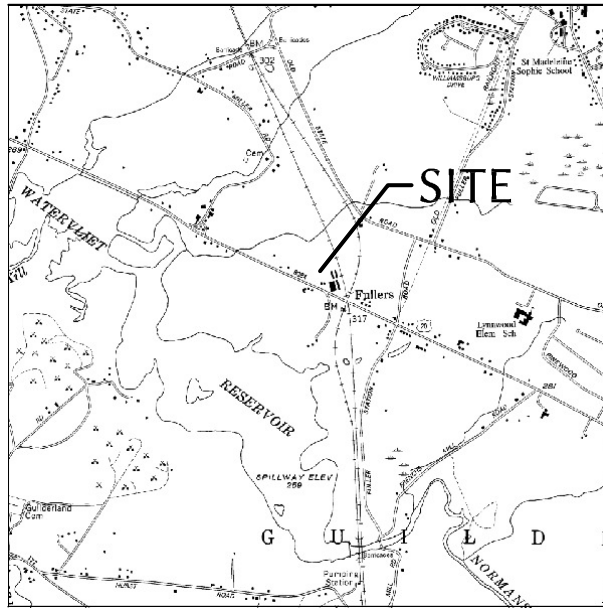
**Title/Responsible For:** \_\_\_\_\_

**Certification Date:** \_\_\_\_\_

**10.0 CONTRACTOR’S CERTIFICATION**

_____ NYR _____		
Name of Construction Site	DEC Permit ID	Municipality (MS4)
<p>“I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System (“SPDES”) general permit 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”</p>		
_____		_____
Responsible Corporate Officer/Partner Signature	Date	
_____		_____
Name of above Signatory	Name of Company	
_____		_____
Title of above Signatory	Mailing Address	
_____		_____
Telephone of Company	City, State and Zip	
<p><b>Identify the specific elements of the SWPPP, the contractor or subcontractor is responsible for:</b></p>		
<p><b>‘TRAINED CONTRACTOR’ FOR THE CERTIFIED CONTRACTOR OR SUBCONTRACTOR</b></p>		
_____		_____
Name of Trained Employee	Title of Trained Employee	NYSDEC SWT#

**EXHIBIT 1  
SITE LOCATION MAP  
& SOIL INFORMATION**

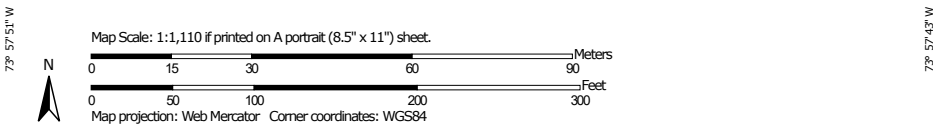


Soil Map—Albany County, New York

73° 57' 51" W 42° 43' 46" N 73° 57' 43" W 42° 43' 46" N



42° 43' 38" N 42° 43' 38" N







































USDA Natural Resources Conservation Service

Web Soil Survey National Cooperative Soil Survey

5/14/2020 Page 1 of 3

Soil Map—Albany County, New York

MAP LEGEND		MAP INFORMATION	
<b>Area of Interest (AOI)</b>			
 Area of Interest (AOI)			
<b>Soils</b>			
 Soil Map Unit Polygons		 Spoil Area	
 Soil Map Unit Lines		 Stony Spot	
 Soil Map Unit Points		 Very Stony Spot	
<b>Special Point Features</b>		 Wet Spot	
 Blowout		 Other	
 Borrow Pit		 Special Line Features	
 Clay Spot		<b>Water Features</b>	
 Closed Depression		 Streams and Canals	
 Gravel Pit		<b>Transportation</b>	
 Gravelly Spot		 Rails	
 Landfill		 Interstate Highways	
 Lava Flow		 US Routes	
 Marsh or swamp		 Major Roads	
 Mine or Quarry		 Local Roads	
 Miscellaneous Water		<b>Background</b>	
 Perennial Water		 Aerial Photography	
 Rock Outcrop			
 Saline Spot			
 Sandy Spot			
 Severely Eroded Spot			
 Sinkhole			
 Slide or Slip			
 Sodic Spot			
			<p>The soil surveys that comprise your AOI were mapped at 1:15,800.</p> <p><b>Warning:</b> Soil Map may not be valid at this scale.</p> <p>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.</p> <p>Please rely on the bar scale on each map sheet for map measurements.</p> <p>Source of Map: Natural Resources Conservation Service                      Web Soil Survey URL:                      Coordinate System: Web Mercator (EPSG:3857)</p> <p>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.</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: Albany County, New York                      Survey Area Data: Version 17, Sep 16, 2019</p> <p>Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.</p> <p>Date(s) aerial images were photographed: Apr 16, 2009—Oct 19, 2017</p> <p>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.</p>

Soil Map—Albany County, New York

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CIB	Claverack loamy fine sand, 3 to 8 percent slopes	1.9	50.6%
CoB	Colonie loamy fine sand, 3 to 8 percent slopes	0.2	6.4%
Ra	Raynham very fine sandy loam	0.4	11.0%
ScA	Scio silt loam, 0 to 3 percent slopes	0.2	6.2%
ScB	Scio silt loam, 3 to 8 percent slopes	0.9	24.6%
Sh	Shaker fine sandy loam	0.0	1.2%
<b>Totals for Area of Interest</b>		<b>3.8</b>	<b>100.0%</b>

Map Unit Description: Claverack loamy fine sand, 3 to 8 percent slopes---Albany County, New York

---

## Albany County, New York

### CIB—Claverack loamy fine sand, 3 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* 9pfb  
*Elevation:* 600 to 1,800 feet  
*Mean annual precipitation:* 36 to 41 inches  
*Mean annual air temperature:* 45 to 48 degrees F  
*Frost-free period:* 100 to 170 days  
*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Claverack and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Claverack

##### Setting

*Landform:* Lake plains  
*Landform position (two-dimensional):* Summit  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Concave  
*Across-slope shape:* Convex  
*Parent material:* Sandy glaciolacustrine deposits, derived primarily from non-calcareous sandstone or granite, that overlie clayey glaciolacustrine deposits

##### Typical profile

*H1 - 0 to 9 inches:* loamy fine sand  
*H2 - 9 to 26 inches:* loamy fine sand  
*H3 - 26 to 60 inches:* silty clay

##### Properties and qualities

*Slope:* 3 to 8 percent  
*Depth to restrictive feature:* 20 to 40 inches to strongly contrasting textural stratification  
*Natural drainage class:* Moderately well 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 18 to 24 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 15 percent  
*Available water storage in profile:* Very low (about 1.8 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 2w  
*Hydrologic Soil Group:* C/D

Map Unit Description: Claverack loamy fine sand, 3 to 8 percent slopes---Albany County, New York

---

*Hydric soil rating:* No

**Minor Components**

**Elnora**

*Percent of map unit:* 5 percent  
*Hydric soil rating:* No

**Colonie**

*Percent of map unit:* 3 percent  
*Hydric soil rating:* No

**Cosad**

*Percent of map unit:* 2 percent  
*Hydric soil rating:* No

**Elmridge**

*Percent of map unit:* 2 percent  
*Hydric soil rating:* No

**Unnamed soils**

*Percent of map unit:* 2 percent

**Stafford**

*Percent of map unit:* 1 percent  
*Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: Albany County, New York  
Survey Area Data: Version 17, Sep 16, 2019

Map Unit Description: Raynham very fine sandy loam--Albany County, New York

## Albany County, New York

### Ra—Raynham very fine sandy loam

#### Map Unit Setting

*National map unit symbol:* 9phg  
*Elevation:* 50 to 500 feet  
*Mean annual precipitation:* 36 to 41 inches  
*Mean annual air temperature:* 45 to 48 degrees F  
*Frost-free period:* 100 to 170 days  
*Farmland classification:* Prime farmland if drained

#### Map Unit Composition

*Raynham, poorly drained, and similar soils:* 50 percent  
*Raynham, somewhat poorly drained, and similar soils:* 30 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Raynham, Poorly Drained

##### Setting

*Landform:* Depressions  
*Landform position (two-dimensional):* Toeslope  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Glaciolacustrine, eolian, or old alluvial deposits, comprised mainly of silt and very fine sand

##### Typical profile

*H1 - 0 to 11 inches:* very fine sandy loam  
*H2 - 11 to 24 inches:* very fine sandy loam  
*H3 - 24 to 60 inches:* very fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* 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 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 5 percent  
*Available water storage in profile:* High (about 11.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* C/D  
*Hydric soil rating:* Yes

Map Unit Description: Raynham very fine sandy loam---Albany County, New York

### Description of Raynham, Somewhat Poorly Drained

#### Setting

*Landform:* Depressions  
*Landform position (two-dimensional):* Toeslope  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Glaciolacustrine, eolian, or old alluvial deposits, comprised mainly of silt and very fine sand

#### Typical profile

*H1 - 0 to 11 inches:* very fine sandy loam  
*H2 - 11 to 24 inches:* very fine sandy loam  
*H3 - 24 to 60 inches:* very fine sandy loam

#### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural 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 24 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 5 percent  
*Available water storage in profile:* High (about 11.7 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* C/D  
*Hydric soil rating:* No

#### Minor Components

##### Unnamed soils, somewhat poorly drained

*Percent of map unit:* 8 percent

##### Scio

*Percent of map unit:* 5 percent  
*Hydric soil rating:* No

##### Birdsall

*Percent of map unit:* 2 percent  
*Landform:* Depressions  
*Hydric soil rating:* Yes

##### Unnamed soils

*Percent of map unit:* 2 percent

##### Shaker

*Percent of map unit:* 2 percent  
*Landform:* Depressions  
*Hydric soil rating:* Yes

Map Unit Description: Raynham very fine sandy loam--Albany County, New York

---

**Cosad**

*Percent of map unit:* 1 percent

*Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: Albany County, New York

Survey Area Data: Version 17, Sep 16, 2019

Map Unit Description: Scio silt loam, 3 to 8 percent slopes---Albany County, New York

## Albany County, New York

### ScB—Scio silt loam, 3 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* 9php  
*Elevation:* 100 to 1,000 feet  
*Mean annual precipitation:* 36 to 41 inches  
*Mean annual air temperature:* 45 to 48 degrees F  
*Frost-free period:* 100 to 170 days  
*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Scio and similar soils:* 80 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Scio

##### Setting

*Landform:* Lake plains  
*Landform position (two-dimensional):* Summit  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Concave  
*Across-slope shape:* Convex  
*Parent material:* Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand

##### Typical profile

*H1 - 0 to 8 inches:* silt loam  
*H2 - 8 to 65 inches:* silt loam

##### Properties and qualities

*Slope:* 3 to 8 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Moderately well drained  
*Capacity of the most limiting layer to transmit water (Ksat):*  
 Moderately high to high (0.57 to 1.98 in/hr)  
*Depth to water table:* About 18 to 24 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water storage in profile:* High (about 11.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 2e  
*Hydrologic Soil Group:* B/D  
*Hydric soil rating:* No

Map Unit Description: Scio silt loam, 3 to 8 percent slopes---Albany County, New York

---

**Minor Components**

**Unadilla**

*Percent of map unit: 5 percent*  
*Hydric soil rating: No*

**Elmridge**

*Percent of map unit: 5 percent*  
*Hydric soil rating: No*

**Raynham**

*Percent of map unit: 5 percent*  
*Hydric soil rating: Yes*

**Unnamed soils**

*Percent of map unit: 5 percent*

**Data Source Information**

Soil Survey Area: Albany County, New York  
Survey Area Data: Version 17, Sep 16, 2019

**APPENDIX A**  
**SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES**  
**FROM CONSTRUCTION ACTIVITY**



NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT  
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP- 0-20-001

Issued Pursuant to Article 17, Titles 7, 8 and Article 70  
of the Environmental Conservation Law

PREFACE

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater discharges from certain construction activities are unlawful unless they are authorized by a National Pollutant Discharge Elimination System ("NPDES") permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An owner or operator of a construction activity that is eligible for coverage under this permit must obtain coverage prior to the commencement of construction activity. Activities that fit the definition of "construction activity", as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a point source and therefore, pursuant to ECL section 17-0505 and 17-0701, the owner or operator must have coverage under a SPDES permit prior to commencing construction activity. The owner or operator cannot wait until there is an actual discharge from the construction site to obtain permit coverage.

\*Note: The italicized words/phrases within this permit are defined in Appendix A.

Effective Date: January 29, 2020      Expiration Date: January 28, 2025

John J. Ferguson  
Chief Permit Administrator

 1-23-20  
Authorized Signature      Date

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

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

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**Part 1. PERMIT COVERAGE AND LIMITATIONS**

(Part I)

**A. Permit Application**

This permit authorizes stormwater discharges to surface waters of the State from the following construction activities identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. Construction activities involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a larger common plan of development or sale that will ultimately disturb one or more acres of land; excluding routine maintenance activity that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;
2. Construction activities involving soil disturbances of less than one (1) acre where the Department has determined that a SPDES permit is required for stormwater discharges based on the potential for contribution to a violation of a water quality standard or for significant contribution of pollutants to surface waters of the State.
3. Construction activities located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

**B. Effluent Limitations Applicable to Discharges from Construction Activities**

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The owner or operator must select, design, install, implement and maintain control measures to minimize the discharge of pollutants and prevent a violation of the water quality standards. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1. (a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the owner or operator must include in the Stormwater Pollution Prevention Plan ("SWPPP") the reason(s) for the

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(Part I.B.1)  
deviation or alternative design and provide information which demonstrates that the deviation or alternative design is equivalent to the technical standard.

- a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to minimize the discharge of pollutants and prevent a violation of the water quality standards. At a minimum, such controls must be designed, installed and maintained to:

- (i) Minimize soil erosion through application of runoff control and soil stabilization control measure to minimize pollutant discharges;
- (ii) Control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of the discharge points;
- (iii) Minimize the amount of soil exposed during construction activity;
- (iv) Minimize the disturbance of steep slopes;
- (v) Minimize sediment discharges from the site;
- (vi) Provide and maintain natural buffers around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible;
- (vii) Minimize soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;
- (viii) Unless infeasible, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and
- (ix) Minimize dust. On areas of exposed soil, minimize dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.

- b. **Soil Stabilization.** In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that directly discharge to one of the 303(d) segments

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(Part I.B.1.b)  
listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of Temporarily Ceased.

- c. **Dewatering.** Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, must be managed by appropriate control measures.

- d. **Pollution Prevention Measures.** Design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants and prevent a violation of the water quality standards. At a minimum, such measures must be designed, installed, implemented and maintained to:

- (i) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;
- (ii) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use); and
- (iii) Prevent the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.

- e. **Prohibited Discharges.** The following discharges are prohibited:

- (i) Wastewater from washout of concrete;
- (ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

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- (iii) Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
- (iv) Soaps or solvents used in vehicle and equipment washing; and
- (v) Toxic or hazardous substances from a spill or other release.

- f. **Surface Outlets.** When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

**C. Post-construction Stormwater Management Practice Requirements**

1. The owner or operator of a construction activity that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the performance criteria in the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices ("SMPs") are not designed in conformance with the performance criteria in the Design Manual, the owner or operator must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is equivalent to the technical standard.
2. The owner or operator of a construction activity that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable sizing criteria in Part I.C.2.a., b., c. or d. of this permit.

**a. Sizing Criteria for New Development**

- (i) **Runoff Reduction Volume ("RRV").** Reduce the total Water Quality Volume ("WQV") by application of RR techniques and standard SMPs with RRV capacity. The total WQV shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.
- (ii) **Minimum RRV and Treatment of Remaining Total WQV:** Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRV capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQV shall be documented in the SWPPP.

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(Part I.C.2.a.ii)

For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

**In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual.** The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume ("Cpv"): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
  - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
  - (2) The site discharges directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria ("Op"): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Op) to predevelopment rates. The Op requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that overbank control is not required.
- (v) Extreme Flood Control Criteria ("Of"): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Of) to predevelopment rates. The Of requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that overbank control is not required.

**b. Sizing Criteria for New Development in Enhanced Phosphorus Removal Watershed**

- (i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be

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(Part I.C.2.b.i)

calculated in accordance with the criteria in Section 10.3 of the Design Manual.

- (ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

**In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual.** The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
  - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
  - (2) The site discharges directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria (Op): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Op) to predevelopment rates. The Op requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that overbank control is not required.
- (v) Extreme Flood Control Criteria (Of): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Of) to predevelopment rates. The Of requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that overbank control is not required.

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(Part I.C.2.c)

**c. Sizing Criteria for Redevelopment Activity**

- (i) Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* shall be addressed by one of the following options. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other *redevelopment activities* shall calculate the WQv in accordance with Section 4.2 of the Design Manual.
  - (1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or
  - (2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRv capacity, or
  - (3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual, or
  - (4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 – 4 above.

- (ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the discharge rate from the project site.
- (iii) Overbank Flood Control Criteria (Op): Not required if there are no changes to hydrology that increase the discharge rate from the project site.
- (iv) Extreme Flood Control Criteria (Of): Not required if there are no changes to hydrology that increase the discharge rate from the project site

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(Part I.C.2.d)

**d. Sizing Criteria for Combination of Redevelopment Activity and New Development**

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

**D. Maintaining Water Quality**

The Department expects that compliance with the conditions of this permit will control discharges necessary to meet applicable *water quality standards*. It shall be a violation of the ECL for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;
2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and
3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater discharges authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the owner or operator must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the owner or operator may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater discharges authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized discharges will no longer be eligible for coverage under this permit. The Department may require the owner or operator to obtain an individual SPDES permit to continue discharging.

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**E. Eligibility Under This General Permit**

(Part I.E)

1. This permit may authorize all discharges of stormwater from construction activity to surface waters of the State and groundwaters except for ineligible discharges identified under subparagraph F. of this Part.
2. Except for non-stormwater discharges explicitly listed in the next paragraph, this permit only authorizes stormwater discharges; including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from construction activities.
3. Notwithstanding paragraphs E. 1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated discharges from construction site de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the owner or operator must still comply with water quality standards in Part I.D of this permit.
4. The owner or operator must maintain permit eligibility to discharge under this permit. Any discharges that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the owner or operator must either apply for a separate permit to cover those ineligible discharges or take steps necessary to make the discharge eligible for coverage.

**F. Activities Which Are Ineligible for Coverage Under This General Permit**

All of the following are **not** authorized by this permit:

1. Discharges after construction activities have been completed and the site has undergone final stabilization;
2. Discharges that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;
3. Discharges that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;
4. Construction activities or discharges from construction activities that may adversely affect an endangered or threatened species unless the owner or

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operator has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

5. Discharges which either cause or contribute to a violation of water quality standards adopted pursuant to the ECL and its accompanying regulations;
6. Construction activities for residential, commercial and institutional projects:
  - a. Where the discharges from the construction activities are tributary to waters of the state classified as AA or AA-s; and
  - b. Which are undertaken on land with no existing impervious cover; and
  - c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.
7. Construction activities for linear transportation projects and linear utility projects:
  - a. Where the discharges from the construction activities are tributary to waters of the state classified as AA or AA-s; and
  - b. Which are undertaken on land with no existing impervious cover; and
  - c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase "D" (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.

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8. Construction activities that have the potential to affect an historic property, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:

(Part I.F.8)

- a. Documentation that the construction activity is not within an archeologically sensitive area indicated on the sensitivity map, and that the construction activity is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the construction site within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the construction site within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.
  - 1-5 acres of disturbance - 20 feet
  - 5-20 acres of disturbance - 50 feet
  - 20+ acres of disturbance - 100 feet, or
- b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
  - (i) the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
  - (ii) documentation from OPRHP that the construction activity will result in No Impact; or
  - (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
  - (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this construction activity to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or
- c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area.

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- (i) No Affect
- (ii) No Adverse Affect
- (iii) Executed Memorandum of Agreement, or

(Part I.F.8.c)

d. Documentation that:

- (i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.
9. Discharges from construction activities that are subject to an existing SPDES individual or general permit where a SPDES permit for construction activity has been terminated or denied; or where the owner or operator has failed to renew an expired individual permit.

**Part II. PERMIT COVERAGE**

**A. How to Obtain Coverage**

1. An owner or operator of a construction activity that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.
2. An owner or operator of a construction activity that is subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the regulated, traditional land use control MS4 prior to submitting the NOI to the Department. The owner or operator shall have the "MS4 SWPPP Acceptance" form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.
3. The requirement for an owner or operator to have its SWPPP reviewed and accepted by the regulated, traditional land use control MS4 prior to submitting the NOI to the Department does not apply to an owner or operator that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of Owner or Operator) or where the owner or operator of the construction activity is the regulated, traditional land use control MS4. This exemption does not apply to construction activities subject to the New York City Administrative Code.

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**B. Notice of Intent (NOI) Submittal**

(Part II.B)

1. Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (<http://www.dec.ny.gov/>). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:  
  

**NOTICE OF INTENT**  
**NYS DEC, Bureau of Water Permits**  
 625 Broadway, 4<sup>th</sup> Floor  
 Albany, New York 12233-3505
2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the owner or operator must submit the NOI electronically using the Department's online NOI.
3. The owner or operator shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.
4. As of the date the NOI is submitted to the Department, the owner or operator shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

**C. Permit Authorization**

1. An owner or operator shall not commence construction activity until their authorization to discharge under this permit goes into effect.
2. Authorization to discharge under this permit will be effective when the owner or operator has satisfied all of the following criteria:
  - a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (<http://www.dec.ny.gov/>) for more information,
  - b. where required, all necessary Department permits subject to the Uniform Procedures Act ("UPA") (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). Owners or operators of construction activities that are required to obtain UPA permits

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(Part II.C.2.b)  
 must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary UPA permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the construction activity qualifies for authorization under this permit,

- c. the final SWPPP has been prepared, and
  - d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.
3. An owner or operator that has satisfied the requirements of Part II.C.2 above will be authorized to discharge stormwater from their construction activity in accordance with the following schedule:
    - a. For construction activities that are not subject to the requirements of a regulated, traditional land use control MS4:
      - (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for construction activities with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the performance criteria in the technical standard referenced in Parts III.B., 2 or 3, for construction activities that require post-construction stormwater management practices pursuant to Part III.C.; or
      - (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for construction activities with a SWPPP that has not been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for construction activities that require post-construction stormwater management practices pursuant to Part III.C., the performance criteria in the technical standard referenced in Parts III.B., 2 or 3, or;
      - (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for construction activities with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the performance criteria in the technical standard referenced in Parts III.B., 2 or 3, for construction activities that require post-construction stormwater management practices pursuant to Part III.C.

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**D. General Requirements For Owners or Operators With Permit Coverage**

(Part II.C.3.b)

- b. For construction activities that are subject to the requirements of a regulated, traditional land use control MS4:
    - (i) Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed "MS4 SWPPP Acceptance" form, or
    - (ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed "MS4 SWPPP Acceptance" form.
  4. Coverage under this permit authorizes stormwater discharges from only those areas of disturbance that are identified in the NOI. If an owner or operator wishes to have stormwater discharges from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The owner or operator shall not commence construction activity on the future or additional areas until their authorization to discharge under this permit goes into effect in accordance with Part II.C. of this permit.
1. The owner or operator shall ensure that the provisions of the SWPPP are implemented from the commencement of construction activity until all areas of disturbance have achieved final stabilization and the Notice of Termination ("NOT") has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.
  2. The owner or operator shall maintain a copy of the General Permit (GP-0-20-001), NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor's or subcontractor's certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the construction site until all disturbed areas have achieved final stabilization and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.
  3. The owner or operator of a construction activity shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a regulated, traditional land

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(Part II.D.3)  
 use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity). At a minimum, the owner or operator must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:

- a. The owner or operator shall have a qualified inspector conduct at least two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.
- c. The owner or operator shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
- d. The owner or operator shall install any additional site-specific practices needed to protect water quality.
- e. The owner or operator shall include the requirements above in their SWPPP.
4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an owner's or operator's coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..
5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the owner or operator.
6. For construction activities that are subject to the requirements of a regulated, traditional land use control MS4, the owner or operator shall notify the

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<p style="text-align: right;">(Part II.D.6)</p> <p><i>regulated, traditional land use control MS4</i> in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the <i>regulated, traditional land use control MS4</i>, the <i>owner or operator</i> shall have the SWPPP amendments or modifications reviewed and accepted by the <i>regulated, traditional land use control MS4</i> prior to commencing construction of the post-construction stormwater management practice.</p> <p><b>E. Permit Coverage for Discharges Authorized Under GP-0-15-002</b></p> <p>1. Upon renewal of SPDES General Permit for Stormwater Discharges from Construction Activity (Permit No. GP-0-15-002), an <i>owner or operator</i> of a construction activity with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to discharge in accordance with GP- 0-20-001, unless otherwise notified by the Department.</p> <p>An <i>owner or operator</i> may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.</p> <p><b>F. Change of Owner or Operator</b></p> <p>1. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original <i>owner or operator</i> must notify the new <i>owner or operator</i>, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For construction activities subject to the requirements of a <i>regulated, traditional land use control MS4</i>, the original <i>owner or operator</i> must also notify the <i>MS4</i>, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.</p> <p>2. Once the new <i>owner or operator</i> obtains permit coverage, the original <i>owner or operator</i> shall then submit a completed NOI with the name and permit identification number of the new <i>owner or operator</i> to the Department at the address in Part II.B.1. of this permit. If the original <i>owner or operator</i> maintains ownership of a portion of the construction activity and will disturb soil, they must maintain their coverage under the permit.</p> <p>3. Permit coverage for the new <i>owner or operator</i> will be effective as of the date the Department receives a complete NOI, provided the original <i>owner or</i></p> <p style="text-align: center;">17</p>	<p style="text-align: right;">(Part II.F.3)</p> <p><i>operator</i> was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new <i>owner or operator</i>.</p> <p><b>Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)</b></p> <p><b>A. General SWPPP Requirements</b></p> <p>1. A SWPPP shall be prepared and implemented by the <i>owner or operator</i> of each construction activity covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the commencement of construction activity. A copy of the completed, final NOI shall be included in the SWPPP.</p> <p>2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the pollutants in stormwater discharges and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharges.</p> <p>3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a <i>qualified professional</i> that is knowledgeable in the principles and practices of stormwater management and treatment.</p> <p>4. The <i>owner or operator</i> must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the <i>owner or operator</i> shall amend the SWPPP, including construction drawings:</p> <p>a. whenever the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the site;</p> <p style="text-align: center;">18</p>
<p style="text-align: right;">(Part III.A.4.b)</p> <p>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;</p> <p>c. to address issues or deficiencies identified during an inspection by the <i>qualified inspector</i>, the Department or other regulatory authority; and</p> <p>d. to document the final construction conditions.</p> <p>5. The Department may notify the <i>owner or operator</i> at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the <i>owner or operator</i> shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the <i>owner or operator</i> does not respond to the Department's comments in the specified time frame, the Department may suspend the <i>owner's or operator's</i> coverage under this permit or require the <i>owner or operator</i> to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.</p> <p>6. Prior to the commencement of construction activity, the <i>owner or operator</i> must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The <i>owner or operator</i> shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the <i>trained contractor</i>. The <i>owner or operator</i> shall ensure that at least one <i>trained contractor</i> is on site on a daily basis when soil disturbance activities are being performed.</p> <p>The <i>owner or operator</i> shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any construction activity:</p> <p>"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the <i>qualified inspector</i> during a site inspection. I also understand that the <i>owner or operator</i> must comply with</p> <p style="text-align: center;">19</p>	<p style="text-align: right;">(Part III.A.6)</p> <p>the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit 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"</p> <p>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 <i>trained contractor</i> 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 <i>owner or operator</i> shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the construction site. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.</p> <p>7. For projects where the Department requests a copy of the SWPPP or inspection reports, the <i>owner or operator</i> shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.</p> <p><b>B. Required SWPPP Contents</b></p> <p>1. Erosion and sediment control component - All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the <i>owner or operator</i> must demonstrate equivalence to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:</p> <p>a. Background information about the scope of the project, including the location, type and size of project</p> <p style="text-align: center;">20</p>

(Part III.B.1.b)

b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours ; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge*(s);

c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);

d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;

e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;

f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;

g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;

h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;

i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection

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(Part III.B.2.b)

b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;

c. A Stormwater Modeling and Analysis Report that includes:

(i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;

(ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;

(iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;

(iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;

(v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and

(vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;

d. Soil testing results and locations (test pits, borings);

e. Infiltration test results, when required; and

f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

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(Part III.B.1)

schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;

k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and

l. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. Post-construction stormwater management practice component – The *owner* or *operator* of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable *sizing criteria* in Part I.C.2.a., c. or d. of this permit and the *performance criteria* in the technical standard, New York State Stormwater Management Design Manual dated January 2015

Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner* or *operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

The post-construction stormwater management practice component of the SWPPP shall include the following:

a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

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(Part III.B.3)

3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria*, Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

**C. Required SWPPP Components by Project Type**

Unless otherwise notified by the Department, *owners* or *operators* of *construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners* or *operators* of the *construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

**Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS**

**A. General Construction Site Inspection and Maintenance Requirements**

1. The *owner* or *operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.

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

**B. Contractor Maintenance Inspection Requirements**

1. The *owner* or *operator* of each *construction activity* identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

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<p style="text-align: right;">(Part IV.B.1)</p> <p>begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.</p> <p>2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and <i>temporary stabilization</i> measures have been applied to all disturbed areas, the <i>trained contractor</i> can stop conducting the maintenance inspections. The <i>trained contractor</i> shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.</p> <p>3. For construction sites where soil disturbance activities have been shut down with partial project completion, the <i>trained contractor</i> can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved <i>final stabilization</i> 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.</p> <p><b>C. Qualified Inspector Inspection Requirements</b></p> <p>The <i>owner or operator</i> shall have a <i>qualified inspector</i> conduct site inspections in conformance with the following requirements:</p> <p>[Note: The <i>trained contractor</i> identified in Part III.A.6. and IV.B. of this permit <b>cannot</b> conduct the <i>qualified inspector</i> site inspections unless they meet the <i>qualified inspector</i> qualifications included in Appendix A. In order to perform these inspections, the <i>trained contractor</i> would have to be:</p> <ul style="list-style-type: none"> <li>▪ licensed Professional Engineer,</li> <li>▪ Certified Professional in Erosion and Sediment Control (CPESC),</li> <li>▪ New York State Erosion and Sediment Control Certificate Program holder</li> <li>▪ Registered Landscape Architect, or</li> <li>▪ 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].</li> </ul> <p>1. A <i>qualified inspector</i> shall conduct site inspections for all <i>construction activities</i> identified in Tables 1 and 2 of Appendix B, with the exception of:</p> <p>a. the construction of a single family residential subdivision with 25% or less <i>impervious cover</i> 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 <u>not</u> located</p>	<p style="text-align: right;">(Part IV.C.1.a)</p> <p>in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;</p> <p>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 <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;</p> <p>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</p> <p>d. <i>construction activities</i> located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.</p> <p>2. Unless otherwise notified by the Department, the <i>qualified inspector</i> shall conduct site inspections in accordance with the following timetable:</p> <p>a. For construction sites where soil disturbance activities are on-going, the <i>qualified inspector</i> shall conduct a site inspection at least once every seven (7) calendar days.</p> <p>b. For construction sites where soil disturbance activities are on-going and the <i>owner or operator</i> has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the <i>qualified inspector</i> 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.</p> <p>c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and <i>temporary stabilization</i> measures have been applied to all disturbed areas, the <i>qualified inspector</i> shall conduct a site inspection at least once every thirty (30) calendar days. The <i>owner or operator</i> shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a <i>regulated, traditional land use control MS4</i>, the <i>regulated, traditional land use control MS4</i> (provided the <i>regulated, traditional land use control MS4</i> is not the <i>owner or operator</i> of the <i>construction activity</i>) in writing prior to reducing the frequency of inspections.</p>
<p style="text-align: right;">(Part IV.C.2.d)</p> <p>d. For construction sites where soil disturbance activities have been shut down with partial project completion, the <i>qualified inspector</i> can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved <i>final stabilization</i> 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 <i>owner or operator</i> shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a <i>regulated, traditional land use control MS4</i>, the <i>regulated, traditional land use control MS4</i> (provided the <i>regulated, traditional land use control MS4</i> is not the <i>owner or operator</i> of the <i>construction activity</i>) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the <i>owner or operator</i> shall have the <i>qualified inspector</i> perform a final inspection and certify that all disturbed areas have achieved <i>final stabilization</i>, 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 <i>owner or operator</i> shall then submit the completed NOT form to the address in Part II.B.1 of this permit.</p> <p>e. For construction sites that directly discharge to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the <i>qualified inspector</i> 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.</p> <p>3. At a minimum, the <i>qualified inspector</i> shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved <i>final stabilization</i>, all points of discharge to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the <i>construction site</i>, and all points of discharge from the <i>construction site</i>.</p> <p>4. The <i>qualified inspector</i> shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:</p>	<p style="text-align: right;">(Part IV.C.4.a)</p> <p>a. Date and time of inspection;</p> <p>b. Name and title of person(s) performing inspection;</p> <p>c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;</p> <p>d. A description of the condition of the runoff at all points of discharge from the <i>construction site</i>. This shall include identification of any discharges of sediment from the <i>construction site</i>. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;</p> <p>e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the <i>construction site</i> which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody;</p> <p>f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;</p> <p>g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;</p> <p>h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;</p> <p>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;</p> <p>j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);</p> <p>k. Identification and status of all corrective actions that were required by previous inspection; and</p>

<p style="text-align: center;">(Part IV.C.4.)</p> <p>i. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The <i>qualified inspector</i> 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 <i>qualified inspector</i> 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 <i>qualified inspector</i> 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.</p> <p>5. Within one business day of the completion of an inspection, the <i>qualified inspector</i> shall notify the <i>owner or operator</i> and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.</p> <p>6. All inspection reports shall be signed by the <i>qualified inspector</i>. Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.</p> <p><b>Part V. TERMINATION OF PERMIT COVERAGE</b></p> <p><b>A. Termination of Permit Coverage</b></p> <p>1. An <i>owner or operator</i> that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.B.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.</p> <p>2. An <i>owner or operator</i> may terminate coverage when one or more the following conditions have been met:</p> <p>a. Total project completion - All construction activity identified in the SWPPP has been completed; and all areas of disturbance have achieved <i>final stabilization</i>; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;</p> <p style="text-align: center;">29</p>	<p style="text-align: center;">(Part V.A.2.b.)</p> <p>b. Planned shutdown with partial project completion - All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved <i>final stabilization</i>; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;</p> <p>c. A new <i>owner or operator</i> has obtained coverage under this permit in accordance with Part II.F. of this permit.</p> <p>d. The <i>owner or operator</i> obtains coverage under an alternative SPDES general permit or an individual SPDES permit.</p> <p>3. For construction activities meeting subdivision 2a. or 2b. of this Part, the <i>owner or operator</i> shall have the <i>qualified inspector</i> perform a final site inspection prior to submitting the NOT. The <i>qualified inspector</i> shall, by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.</p> <p>4. For construction activities that are subject to the requirements of a <i>regulated, traditional land use control MS4</i> and meet subdivision 2a. or 2b. of this Part, the <i>owner or operator</i> shall have the <i>regulated, traditional land use control MS4</i> sign the "MS4 Acceptance" statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The <i>regulated, traditional land use control MS4</i> official, by signing this statement, has determined that it is acceptable for the <i>owner or operator</i> to submit the NOT in accordance with the requirements of this Part. The <i>regulated, traditional land use control MS4</i> can make this determination by performing a final site inspection themselves or by accepting the <i>qualified inspector's</i> final site inspection certification(s) required in Part V.A.3. of this permit.</p> <p>5. For construction activities that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the <i>owner or operator</i> must, prior to submitting the NOT, ensure one of the following:</p> <p>a. the post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,</p> <p style="text-align: center;">30</p>
<p style="text-align: center;">(Part V.A.5.b.)</p> <p>b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),</p> <p>c. for post-construction stormwater management practices that are privately owned, the <i>owner or operator</i> 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 <i>owner or operator's</i> deed of record,</p> <p>d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the <i>owner or operator</i> has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.</p> <p><b>Part VI. REPORTING AND RETENTION RECORDS</b></p> <p><b>A. Record Retention</b></p> <p>The <i>owner or operator</i> shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.</p> <p><b>B. Addresses</b></p> <p>With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.</p> <p><b>Part VII. STANDARD PERMIT CONDITIONS</b></p> <p><b>A. Duty to Comply</b></p> <p>The <i>owner or operator</i> must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water</p> <p style="text-align: center;">31</p>	<p style="text-align: center;">(Part VII.A)</p> <p>Act (CWA) and the ECL and is grounds for an enforcement action against the <i>owner or operator</i> and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all construction activity at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the <i>owner or operator</i>.</p> <p>If any human remains or archaeological remains are encountered during excavation, the <i>owner or operator</i> must immediately cease, or cause to cease, all construction activity in the area of the remains and notify the appropriate Regional Water Engineer (RWE). Construction activity shall not resume until written permission to do so has been received from the RWE.</p> <p><b>B. Continuation of the Expired General Permit</b></p> <p>This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an <i>owner or operator</i> with coverage under this permit may continue to operate and discharge in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.</p> <p><b>C. Enforcement</b></p> <p>Failure of the <i>owner or operator</i>, its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.</p> <p><b>D. Need to Halt or Reduce Activity Not a Defense</b></p> <p>It shall not be a defense for an <i>owner or operator</i> in an enforcement action that it would have been necessary to halt or reduce the construction activity in order to maintain compliance with the conditions of this permit.</p> <p style="text-align: center;">32</p>

**E. Duty to Mitigate**

(Part VII.E)

The owner or operator and its contractors and subcontractors shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

**F. Duty to Provide Information**

The owner or operator shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the owner or operator must make available for review and copying by any person within five (5) business days of the owner or operator receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

**G. Other Information**

When the owner or operator becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit, or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or impervious area), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the owner or operator to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

**H. Signatory Requirements**

1. All NOIs and NOTs shall be signed as follows:
  - a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

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**I. Property Rights**

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. Owners or operators must obtain any applicable conveyances, easements, licenses and/or access to real property prior to commencing construction activity.

3. All inspection reports shall be signed by the qualified inspector that performs the inspection.
4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the regulated, traditional land use control MS4, or by a duly authorized representative of that person.

It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

**J. Severability**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

**K. Requirement to Obtain Coverage Under an Alternative Permit**

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

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- (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

- (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

- b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or

- c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

- (i) the chief executive officer of the agency, or
- (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;
- b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

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include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to discharge under a general SPDES permit for the same discharge(s), the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

**L. Proper Operation and Maintenance**

The owner or operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the owner or operator to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

**M. Inspection and Entry**

The owner or operator shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a construction site which discharges through an MS4, an authorized representative of the MS4 receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the owner's or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

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(Part VII.M.3)

3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.

4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

**N. Permit Actions**

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

**O. Definitions**

Definitions of key terms are included in Appendix A of this permit.

**P. Re-Opener Clause**

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.

2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

**Q. Penalties for Falsification of Forms and Reports**

In accordance with 6 NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

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(Part VII.R)

**R. Other Permits**

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

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**APPENDIX A – Acronyms and Definitions**

**Acronyms**

APO – Agency Preservation Officer  
 BMP – Best Management Practice  
 CPESC – Certified Professional in Erosion and Sediment Control  
 Cpv – Channel Protection Volume  
 CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq.)  
 DOW – Division of Water  
 EAF – Environmental Assessment Form  
 ECL – Environmental Conservation Law  
 EPA – U. S. Environmental Protection Agency  
 HSG – Hydrologic Soil Group  
 MS4 – Municipal Separate Storm Sewer System  
 NOI – Notice of Intent  
 NOT – Notice of Termination  
 NPDES – National Pollutant Discharge Elimination System  
 OPRHP – Office of Parks, Recreation and Historic Places  
 Qf – Extreme Flood  
 Qp – Overbank Flood  
 RRv – Runoff Reduction Volume  
 RWE – Regional Water Engineer  
 SEQR – State Environmental Quality Review  
 SEQRA – State Environmental Quality Review Act  
 SHPA – State Historic Preservation Act  
 SPDES – State Pollutant Discharge Elimination System  
 SWPPP – Stormwater Pollution Prevention Plan  
 TMDL – Total Maximum Daily Load  
 UPA – Uniform Procedures Act  
 USDA – United States Department of Agriculture  
 WQv – Water Quality Volume

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**Definitions**

All definitions in this section are solely for the purposes of this permit.

**Agricultural Building** – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

**Agricultural Property** – means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

**Alter Hydrology from Pre to Post-Development Conditions** - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

**Combined Sewer** - means a sewer that is designed to collect and convey both "sewage" and "stormwater".

**Commence (Commencement of) Construction Activities** - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for "Construction Activity(ies)" also.

**Construction Activity(ies)** - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

**Construction Site** – means the land area where construction activity(ies) will occur. See definition for "Commence (Commencement of) Construction Activities" and "Larger Common Plan of Development or Sale" also.

**Dewatering** – means the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

**Direct Discharge (to a specific surface waterbody)** - means that runoff flows from a construction site by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a construction site to a separate storm sewer system

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and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

**Discharge(s)** - means any addition of any pollutant to waters of the State through an outlet or *point source*.

**Embankment** - means an earthen or rock slope that supports a road/highway.

**Endangered or Threatened Species** - see 6 NYCRR Part 182 of the Department's rules and regulations for definition of terms and requirements.

**Environmental Conservation Law (ECL)** - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

**Equivalent (Equivalence)** - means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

**Final Stabilization** - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

**General SPDES permit** - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

**Groundwater(s)** - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

**Historic Property** - means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

**Impervious Area (Cover)** - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

**Infeasible** - means not technologically possible, or not economically practicable and achievable in light of best industry practices.

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**New York State Erosion and Sediment Control Certificate Program** - a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

**NOI Acknowledgment Letter** - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from construction activity.

**Nonpoint Source** - means any source of water pollution or pollutants which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

**Overbank** - means flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

**Owner or Operator** - means the person, persons or legal entity which owns or leases the property on which the construction activity is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

**Performance Criteria** - means the design criteria listed under the "Required Elements" sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

**Point Source** - means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which pollutants are or may be discharged.

**Pollutant** - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq.

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**Larger Common Plan of Development or Sale** - means a contiguous area where multiple separate and distinct construction activities are occurring, or will occur, under one plan. The term "plan" in "larger common plan of development or sale" is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that construction activities may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

**Minimize** - means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

**Municipal Separate Storm Sewer (MS4)** - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State;
- (ii) Designed or used for collecting or conveying stormwater;
- (iii) Which is not a *combined sewer*; and
- (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

**National Pollutant Discharge Elimination System (NPDES)** - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

**Natural Buffer** - means an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

**New Development** - means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

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**Qualified Inspector** - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

**Qualified Professional** - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

**Redevelopment Activity(ies)** - means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

**Regulated, Traditional Land Use Control MS4** - means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

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SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

**Routine Maintenance Activity** - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots.
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch.
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch).
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*.
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material.
- Long-term use of equipment storage areas at or near highway maintenance facilities.
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*.
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

**Site limitations** – means site conditions that prevent the use of an infiltration technique and/or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

**Sizing Criteria** – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include: Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank Flood* (Op), and Extreme Flood (Qf).

**State Pollutant Discharge Elimination System (SPDES)** - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

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training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

**Uniform Procedures Act (UPA) Permit** - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

**Water Quality Standard** - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

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**Steep Slope** – means land area designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%) , or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

**Streambank** – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

**Stormwater Pollution Prevention Plan (SWPPP)** – means a project specific report, including construction drawings, that among other things: describes the construction activity(ies), identifies the potential sources of pollution at the *construction site*; describes and shows the stormwater controls that will be used to control the pollutants (i.e. erosion and sediment controls); for many projects, includes post-construction stormwater management controls; and identifies procedures the *owner or operator* will implement to comply with the terms and conditions of the permit. See Part III of the permit for a complete description of the information that must be included in the SWPPP.

**Surface Waters of the State** - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

**Temporarily Ceased** – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

**Temporary Stabilization** - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

**Total Maximum Daily Loads (TMDLs)** - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint* sources. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAS) for *point source* discharges, load allocations (LAs) for *nonpoint* sources, and a margin of safety (MOS).

**Trained Contractor** - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

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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**

<p><b>The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:</b></p> <ul style="list-style-type: none"> <li>• Single family home <u>not</u> located in one of the watersheds listed in Appendix C or <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E</li> <li>• Single family residential subdivisions with 25% or less impervious cover at total site build-out and <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E</li> <li>• Construction of a barn or other <i>agricultural building</i>, silo, stock yard or pen.</li> </ul>
<p><b>The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:</b></p> <p>All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.</p>
<p><b>The following construction activities that involve soil disturbances of one (1) or more acres of land:</b></p> <ul style="list-style-type: none"> <li>• Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains</li> <li>• Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects</li> <li>• Pond construction</li> <li>• Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover</li> <li>• Cross-country ski trails and walking/hiking trails</li> <li>• Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development;</li> <li>• Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path.</li> <li>• Slope stabilization projects</li> <li>• Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics</li> </ul>

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Appendix B

**Table 1 (Continued) CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS**

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that alter hydrology from pre to post development conditions.
- Athletic fields (natural grass) that do not include the construction or reconstruction of impervious area and do not alter hydrology from pre to post development conditions
- Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with impervious cover
- Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete

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Appendix B

**Table 2 CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES**

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Single family home located in one of the watersheds listed in Appendix C or directly discharging to one of the 303(d) segments listed in Appendix E
- Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or directly discharging to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or alter the hydrology from pre to post development conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other agricultural building (e.g. silo) and structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" that include the construction or reconstruction of impervious area, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW's, water treatment plants, and water storage tanks
- Office complexes
- Playgrounds that include the construction or reconstruction of impervious area
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

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Appendix B

**Table 2 (Continued) CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES**

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or alter the hydrology from pre to post development conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with impervious cover, and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of impervious area or alter the hydrology from pre to post development conditions, and are not listed in Table 1

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**APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal**

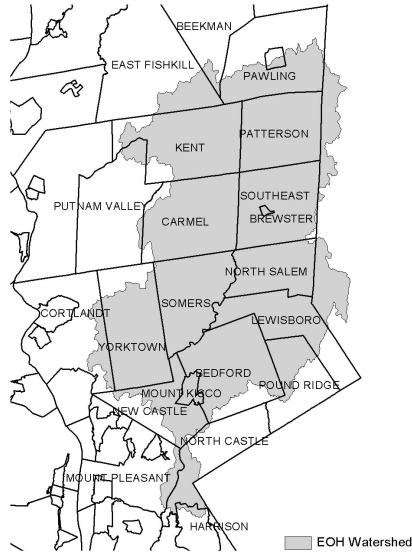
Watersheds where owners or operators of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual ("Design Manual").

- Entire New York City Watershed located east of the Hudson River - Figure 1
- Onondaga Lake Watershed - Figure 2
- Greenwood Lake Watershed - Figure 3
- Oscawana Lake Watershed - Figure 4
- Kinderhook Lake Watershed - Figure 5

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Figure 1 - New York City Watershed East of the Hudson

Appendix C



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Figure 2 - Onondaga Lake Watershed

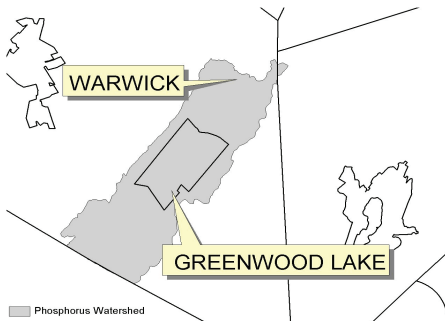
Appendix C



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Figure 3 - Greenwood Lake Watershed

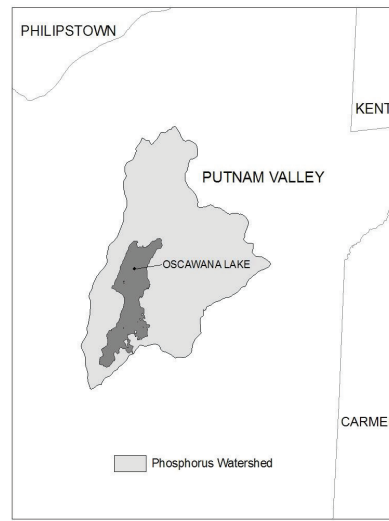
Appendix C



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Figure 4 - Oscawana Lake Watershed

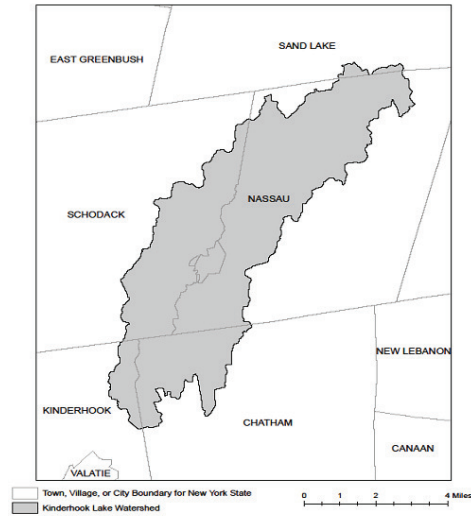
Appendix C



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Appendix C

Figure 5 - Kinderhook Lake Watershed



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APPENDIX D – Watersheds with Lower Disturbance Threshold

Watersheds where owners or operators of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River - See Figure 1 in Appendix C

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APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to construction activity (e.g. silt, sediment or nutrients). The list was developed using The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy dated November 2016. Owners or operators of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and directly discharge to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	POLLUTANT
Albany	Ann Lee (Shakers) Pond, Stump Pond	Nutrients
Albany	Basic Creek Reservoir	Nutrients
Allegany	Amity Lake, Saunders Pond	Nutrients
Bronx	Long Island Sound, Bronx	Nutrients
Bronx	Van Cortlandt Lake	Nutrients
Broome	Fly Pond, Deer Lake, Sky Lake	Nutrients
Broome	Minor Tribs to Lower Susquehanna (north)	Nutrients
Broome	Whitney Point Lake/Reservoir	Nutrients
Cattaraugus	Allegheny River/Reservoir	Nutrients
Cattaraugus	Beaver (Alma) Lake	Nutrients
Cattaraugus	Case Lake	Nutrients
Cattaraugus	Linyx/Club Pond	Nutrients
Cayuga	Duck Lake	Nutrients
Cayuga	Little Sodus Bay	Nutrients
Chautauqua	Bear Lake	Nutrients
Chautauqua	Chadakoin River and tribs	Nutrients
Chautauqua	Chautauqua Lake, North	Nutrients
Chautauqua	Chautauqua Lake, South	Nutrients
Chautauqua	Findley Lake	Nutrients
Chautauqua	Hulburt/Clymer Pond	Nutrients
Clinton	Great Chazy River, Lower, Main Stem	Silt/Sediment
Clinton	Lake Champlain, Main Lake, Middle	Nutrients
Clinton	Lake Champlain, Main Lake, North	Nutrients
Columbia	Kinderhook Lake	Nutrients
Columbia	Robinson Pond	Nutrients
Cortland	Dean Pond	Nutrients

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303(d) Segments Impaired by Construction Related Pollutant(s)

Dutchess	Fall Kill and tribs	Nutrients
Dutchess	Hillside Lake	Nutrients
Dutchess	Wappingers Lake	Nutrients
Dutchess	Wappingers Lake	Silt/Sediment
Erie	Beeman Creek and tribs	Nutrients
Erie	Ellicott Creek, Lower, and tribs	Silt/Sediment
Erie	Ellicott Creek, Lower, and tribs	Nutrients
Erie	Green Lake	Nutrients
Erie	Little Sister Creek, Lower, and tribs	Nutrients
Erie	Murder Creek, Lower, and tribs	Nutrients
Erie	Rush Creek and tribs	Nutrients
Erie	Scajaquada Creek, Lower, and tribs	Nutrients
Erie	Scajaquada Creek, Middle, and tribs	Nutrients
Erie	Scajaquada Creek, Upper, and tribs	Nutrients
Erie	South Branch Smoke Cr, Lower, and tribs	Silt/Sediment
Erie	South Branch Smoke Cr, Lower, and tribs	Nutrients
Essex	Lake Champlain, Main Lake, South	Nutrients
Essex	Lake Champlain, South Lake	Nutrients
Essex	Willboro Bay	Nutrients
Genesee	Bigelow Creek and tribs	Nutrients
Genesee	Black Creek, Middle, and minor tribs	Nutrients
Genesee	Black Creek, Upper, and minor tribs	Nutrients
Genesee	Bowen Brook and tribs	Nutrients
Genesee	LeRoy Reservoir	Nutrients
Genesee	Oak Orchard Cr, Upper, and tribs	Nutrients
Genesee	Tonawanda Creek, Middle, Main Stem	Nutrients
Greene	Schoharie Reservoir	Silt/Sediment
Greene	Sleepy Hollow Lake	Silt/Sediment
Herkimer	Steele Creek tribs	Silt/Sediment
Herkimer	Steele Creek tribs	Nutrients
Jefferson	Moon Lake	Nutrients
Kings	Hendrix Creek	Nutrients
Kings	Prospect Park Lake	Nutrients
Lewis	Mill Creek/South Branch, and tribs	Nutrients
Livingston	Christie Creek and tribs	Nutrients
Livingston	Conesus Lake	Nutrients
Livingston	Mill Creek and minor tribs	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs	Nutrients
Monroe	Buck Pond	Nutrients
Monroe	Cranberry Pond	Nutrients

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303(d) Segments Impaired by Construction Related Pollutant(s)

Monroe	Lake Ontario Shoreline, Western	Nutrients
Monroe	Long Pond	Nutrients
Monroe	Mill Creek and tribs	Nutrients
Monroe	Mill Creek/Blue Pond Outlet and tribs	Nutrients
Monroe	Minor Tribs to Irondequoit Bay	Nutrients
Monroe	Rochester Embayment - East	Nutrients
Monroe	Rochester Embayment - West	Nutrients
Monroe	Shipbuilders Creek and tribs	Nutrients
Monroe	Thomas Creek/White Brook and tribs	Nutrients
Nassau	Beaver Lake	Nutrients
Nassau	Camaans Pond	Nutrients
Nassau	East Meadow Brook, Upper, and tribs	Silt/Sediment
Nassau	East Rockaway Channel	Nutrients
Nassau	Grant Park Pond	Nutrients
Nassau	Hempstead Bay	Nutrients
Nassau	Hempstead Lake	Nutrients
Nassau	Hewlett Bay	Nutrients
Nassau	Hog Island Channel	Nutrients
Nassau	Long Island Sound, Nassau County Waters	Nutrients
Nassau	Massapequa Creek and tribs	Nutrients
Nassau	Milburn/Parsonage Creeks, Upp, and tribs	Nutrients
Nassau	Reynolds Channel, west	Nutrients
Nassau	Tidal Tribs to Hempstead Bay	Nutrients
Nassau	Trib (fresh) to East Bay	Nutrients
Nassau	Trib (fresh) to East Bay	Silt/Sediment
Nassau	Trib to Smith/Halls Ponds	Nutrients
Nassau	Woodmere Channel	Nutrients
New York	Harlem Meer	Nutrients
New York	The Lake in Central Park	Nutrients
Niagara	Bergholz Creek and tribs	Nutrients
Niagara	Hyde Park Lake	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Oneida	Ballou, Nail Creeks and tribs	Nutrients
Onondaga	Harbor Brook, Lower, and tribs	Nutrients
Onondaga	Ley Creek and tribs	Nutrients
Onondaga	Minor Tribs to Onondaga Lake	Nutrients
Onondaga	Ninemile Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Middle, and tribs	Nutrients

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303(d) Segments Impaired by Construction Related Pollutant(s)

Onondaga	Onondaga Lake, northern end	Nutrients
Onondaga	Onondaga Lake, southern end	Nutrients
Ontario	Great Brook and minor tribs	Silt/Sediment
Ontario	Great Brook and minor tribs	Nutrients
Ontario	Hemlock Lake Outlet and minor tribs	Nutrients
Ontario	Honeoye Lake	Nutrients
Orange	Greenwood Lake	Nutrients
Orange	Monhagen Brook and tribs	Nutrients
Orange	Orange Lake	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Oswego	Lake Neatahwanta	Nutrients
Oswego	Pleasant Lake	Nutrients
Putnam	Bog Brook Reservoir	Nutrients
Putnam	Boyd Corners Reservoir	Nutrients
Putnam	Croton Falls Reservoir	Nutrients
Putnam	Diverting Reservoir	Nutrients
Putnam	East Branch Reservoir	Nutrients
Putnam	Lake Carmel	Nutrients
Putnam	Middle Branch Reservoir	Nutrients
Putnam	Oscawana Lake	Nutrients
Putnam	Palmer Lake	Nutrients
Putnam	West Branch Reservoir	Nutrients
Queens	Bergen Basin	Nutrients
Queens	Flushing Creek/Bay	Nutrients
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Nutrients
Queens	Kissena Lake	Nutrients
Queens	Meadow Lake	Nutrients
Queens	Willow Lake	Nutrients
Rensselaer	Nassau Lake	Nutrients
Rensselaer	Snyders Lake	Nutrients
Richmond	Grasmere Lake/Bradys Pond	Nutrients
Rockland	Congers Lake, Swartout Lake	Nutrients
Rockland	Rockland Lake	Nutrients
Saratoga	Ballston Lake	Nutrients
Saratoga	Dwaas Kill and tribs	Silt/Sediment
Saratoga	Dwaas Kill and tribs	Nutrients
Saratoga	Lake Lonely	Nutrients
Saratoga	Round Lake	Nutrients
Saratoga	Trib to Lake Lonely	Nutrients

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303(d) Segments Impaired by Construction Related Pollutant(s)

Schenectady	Collins Lake	Nutrients
Schenectady	Duane Lake	Nutrients
Schenectady	Mariaville Lake	Nutrients
Schoharie	Engleville Pond	Nutrients
Schoharie	Summit Lake	Nutrients
Seneca	Reeder Creek and tribs	Nutrients
St.Lawrence	Black Lake Outlet/Black Lake	Nutrients
St.Lawrence	Fish Creek and minor tribs	Nutrients
Steuben	Smith Pond	Nutrients
Suffolk	Agawam Lake	Nutrients
Suffolk	Big/Little Fresh Ponds	Nutrients
Suffolk	Canaan Lake	Silt/Sediment
Suffolk	Canaan Lake	Nutrients
Suffolk	Flanders Bay, West/Lower Sawmill Creek	Nutrients
Suffolk	Fresh Pond	Nutrients
Suffolk	Great South Bay, East	Nutrients
Suffolk	Great South Bay, Middle	Nutrients
Suffolk	Great South Bay, West	Nutrients
Suffolk	Lake Ronkonkoma	Nutrients
Suffolk	Long Island Sound, Suffolk County, West	Nutrients
Suffolk	Mattituck (Marratooka) Pond	Nutrients
Suffolk	Meetinghouse/Terrys Creeks and tribs	Nutrients
Suffolk	Mill and Seven Ponds	Nutrients
Suffolk	Millers Pond	Nutrients
Suffolk	Moriches Bay, East	Nutrients
Suffolk	Moriches Bay, West	Nutrients
Suffolk	Peconic River, Lower, and tidal tribs	Nutrients
Suffolk	Quantuck Bay	Nutrients
Suffolk	Shinnecock Bay and Inlet	Nutrients
Suffolk	Tidal tribs to West Moriches Bay	Nutrients
Sullivan	Bodine, Montgomery Lakes	Nutrients
Sullivan	Davies Lake	Nutrients
Sullivan	Evens Lake	Nutrients
Sullivan	Pleasure Lake	Nutrients
Tompkins	Cayuga Lake, Southern End	Nutrients
Tompkins	Cayuga Lake, Southern End	Silt/Sediment
Tompkins	Owasco Inlet, Upper, and tribs	Nutrients
Ulster	Ashokan Reservoir	Silt/Sediment
Ulster	Esopus Creek, Upper, and minor tribs	Silt/Sediment
Warren	Hague Brook and tribs	Silt/Sediment

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303(d) Segments Impaired by Construction Related Pollutant(s)

Warren	Huddle/Finkle Brooks and tribs	Silt/Sediment
Warren	Indian Brook and tribs	Silt/Sediment
Warren	Lake George	Silt/Sediment
Warren	Trib to L.George, Village of L George	Silt/Sediment
Washington	Cosayuna Lake	Nutrients
Washington	Lake Champlain, South Bay	Nutrients
Washington	Trib to L.George, East Shore	Silt/Sediment
Washington	Wood Cr/Champlain Canal and minor tribs	Nutrients
Wayne	Port Bay	Nutrients
Westchester	Amawalk Reservoir	Nutrients
Westchester	Blind Brook, Upper, and tribs	Silt/Sediment
Westchester	Cross River Reservoir	Nutrients
Westchester	Lake Katonah	Nutrients
Westchester	Lake Lincolnale	Nutrients
Westchester	Lake Meaghagh	Nutrients
Westchester	Lake Mohagan	Nutrients
Westchester	Lake Shenorock	Nutrients
Westchester	Long Island Sound, Westchester (East)	Nutrients
Westchester	Mamaroneck River, Lower	Silt/Sediment
Westchester	Mamaroneck River, Upper, and minor tribs	Silt/Sediment
Westchester	Muscoot/Upper New Croton Reservoir	Nutrients
Westchester	New Croton Reservoir	Nutrients
Westchester	Peach Lake	Nutrients
Westchester	Reservoir No.1 (Lake Isle)	Nutrients
Westchester	Saw Mill River, Lower, and tribs	Nutrients
Westchester	Saw Mill River, Middle, and tribs	Nutrients
Westchester	Sheldrake River and tribs	Silt/Sediment
Westchester	Sheldrake River and tribs	Nutrients
Westchester	Silver Lake	Nutrients
Westchester	Teatown Lake	Nutrients
Westchester	Titicus Reservoir	Nutrients
Westchester	Truesdale Lake	Nutrients
Westchester	Wallace Pond	Nutrients
Wyoming	Java Lake	Nutrients
Wyoming	Silver Lake	Nutrients

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APPENDIX F – List of NYS DEC Regional Offices

Region	COVERING THE FOLLOWING COUNTIES:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) PERMIT ADMINISTRATORS	DIVISION OF WATER (DOW) WATER (SPDES) PROGRAM
1	NASSAU AND SUFFOLK	50 CIRCLE ROAD STONY BROOK, NY 11790 TEL. (516) 444-4365	50 CIRCLE ROAD STONY BROOK, NY 11790-3409 TEL. (516) 444-4605
2	BROOK, KING, NEW YORK, QUEENS AND RICHMOND	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4997	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4933
3	DUTCHESS, ORANGE, PUTNAM, ROCKLAND, SULLIVAN, ULSTER AND WESTCHESTER	21 SOUTH PUTT CORNERS ROAD NEW PALTZ, NY 12561-1696 TEL. (845) 256-3059	100 HILLSIDE AVENUE, SUITE 1W WHITE PLAINS, NY 10603 TEL. (914) 428-2505
4	ALBANY, COLUMBIA, DELAWARE, GREENE, MONTGOMERY, OSWEGO, RENSSELAER, SCHENECTADY AND SCHORHARKE	1150 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2069	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2045
5	CLINTON, ESSEX, FRANKLIN, FULTON, HAMILTON, SARATOGA, WARREN AND WASHINGTON	1115 STATE ROUTE 86, PO BOX 296 RAY BROOK, NY 12977-0296 TEL. (518) 897-1234	232 GOLF COURSE ROAD WARRENSBURG, NY 12885-1172 TEL. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERLOO, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2895 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROAD/AVON, NY 14414-9519 TEL. (905) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (905) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUGUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7070

**APPENDIX B  
MS4 ACCEPTANCE FORM,  
NOTICE OF INTENT (NOI),  
NOTICE OF TERMINATION (NOT) FORM**



**Department of  
Environmental  
Conservation**

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

**MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance  
Form**

**for  
Construction Activities Seeking Authorization Under SPDES General Permit**  
\*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

<b>I. Project Owner/Operator Information</b>
1. Owner/Operator Name: RJR Units LLC
2. Contact Person: Rick Ramsey
3. Street Address: 4773 Western Turnpike
4. City/State/Zip: Guilderland, NY 12009
<b>II. Project Site Information</b>
5. Project/Site Name: A-Metro Altamont Self Storage
6. Street Address: 4773 Western Turnpike
7. City/State/Zip: Guilderland, NY 12009
<b>III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information</b>
8. SWPPP Reviewed by: Town of Guilderland
9. Title/Position: MS4
10. Date Final SWPPP Reviewed and Accepted:
<b>IV. Regulated MS4 Information</b>
11. Name of MS4: Town of Guilderland
12. MS4 SPDES Permit Identification Number: NYR20A <u>211</u>
13. Contact Person: Kenneth A D'Arpino
14. Street Address: 5209 Western Turnpike
15. City/State/Zip: Guilderland, NY 12084
16. Telephone Number: 518-356-1980



# NOI for coverage under Stormwater General Permit for Construction Activity

version 1.29

(Submission #: HP6-N2PT-FKYHW, version 1)

## Details

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**Submission Alias** A-Metro Altamont Self Storage

**Originally Started By** ABD Engineers, LLP

**Submission ID** HP6-N2PT-FKYHW

**Submission Reason** New

**Status** Draft

**Active Steps** Form Submitted

## Form Input

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### Owner/Operator Information

**Owner/Operator Name (Company/Private Owner/Municipality/Agency/Institution, etc.)**

RJR Units LLC

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

Ramsey

**Owner/Operator Contact Person First Name**

Rick

**Owner/Operator Mailing Address**

4773 Western Turnpike

**City**

Guilderland

**State**

NY

**Zip**

12009

**Phone**

5188884946

**Email**

NONE PROVIDED

**Federal Tax ID**

NONE PROVIDED

### Project Location

**Project/Site Name**

A-Metro Altamont Self Storage

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**Street Address (Not P.O. Box)**

4774 Western Turnpike

**Side of Street**

North

**City/Town/Village (THAT ISSUES BUILDING PERMIT)**

Guilderland

**State**

NY

**Zip**

12009

**County**

ALBANY

**DEC Region**

4

**Name of Nearest Cross Street**

Lawlor Lane

**Distance to Nearest Cross Street (Feet)**

1300

**Project In Relation to Cross Street**

West

**Tax Map Numbers Section-Block-Parcel**

26.00-3-36.1

**Tax Map Numbers**

NONE PROVIDED

**1. Coordinates**

---

Provide the Geographic Coordinates for the project site. The two methods are:

- Navigate to the project location on the map (below) and click to place a marker and obtain the XY coordinates.
- The "Find Me" button will provide the lat/long for the person filling out this form. Then pan the map to the correct location and click the map to place a marker and obtain the XY coordinates.

**Navigate to your location and click on the map to get the X,Y coordinates**

42.72821462023656,-73.96310122619636

**Project Details**

**2. What is the nature of this project?**

Redevelopment with increase in impervious area

**3. Select the predominant land use for both pre and post development conditions.**

**Pre-Development Existing Landuse**

Commercial

**Post-Development Future Land Use**

Commercial

**3a. If Single Family Subdivision was selected in question 3, enter the number of subdivision lots.**

NONE PROVIDED

---

4. In accordance with the larger common plan of development or sale, enter the total project site acreage, the acreage to be disturbed and the future impervious area (acreage)within the disturbed area.

\*\*\* ROUND TO THE NEAREST TENTH OF AN ACRE. \*\*\*

**Total Site Area (acres)**

10.6

**Total Area to be Disturbed (acres)**

2.6

**Existing Impervious Area to be Disturbed (acres)**

0.1

**Future Impervious Area Within Disturbed Area (acres)**

1.6

**5. Do you plan to disturb more than 5 acres of soil at any one time?**

No

---

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

**A (%)**

0

**B (%)**

0

**C (%)**

100

**D (%)**

0

**7. Is this a phased project?**

No

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

**Start Date**

3/1/2021

**End Date**

12/31/2022

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

Tributary of the Watervliet Reservoir

**9a. Type of waterbody identified in question 9?**

Stream/Creek On Site

**Other Waterbody Type Off Site Description**

NONE PROVIDED

**9b. If "wetland" was selected in 9A, how was the wetland identified?**

NONE PROVIDED

**10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001?**

No

**11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001?**

No

**12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters?**

No

**If No, skip question 13.**

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**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?**

NONE PROVIDED

**If Yes, what is the acreage to be disturbed?**

NONE PROVIDED

**14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area?**

No

**15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)?**

Yes

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

NYS DOT

**17. Does any runoff from the site enter a sewer classified as a Combined Sewer?**

No

**18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law?**

No

**19. Is this property owned by a state authority, state agency, federal government or local government?**

No

**20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.)**

No

### **Required SWPPP Components**

**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

**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

**If you answered No in question 22, skip question 23 and the Post-construction Criteria and Post-construction SMP Identification sections.**

**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

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

Professional Engineer (P.E.)

**SWPPP Preparer**

ABD Engineers, LLP

**Contact Name (Last, Space, First)**

Bianchine, Joseph

**Mailing Address**

411 Union Street

**City**

Schenectady

**State**  
New York

**Zip**  
12305

**Phone**  
5183770315

**Email**  
joe@abdeng.com

**Download SWPPP Preparer Certification Form**

Please take the following steps to prepare and upload your preparer certification form:

- 1) Click on the link below to download a blank certification form
- 2) The certified SWPPP preparer should sign this form
- 3) Scan the signed form
- 4) Upload the scanned document

[Download SWPPP Preparer Certification Form](#)

**Please upload the SWPPP Preparer Certification**

NONE PROVIDED

**Comment**

NONE PROVIDED

**Erosion & Sediment Control Criteria**

**25. Has a construction sequence schedule for the planned management practices been prepared?**

Yes

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

**Temporary Structural**

Silt Fence  
Stabilized Construction Entrance  
Storm Drain Inlet Protection

**Biotechnical**

None

**Vegetative Measures**

Mulching  
Seeding  
Topsoiling

**Permanent Structural**

Land Grading

**Other**

NONE PROVIDED

**Post-Construction Criteria**

**\* 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 Area  
Reduction of Clearing and Grading

**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).

**28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout). (Acre-feet)**  
0.207

**29. Post-construction SMP Identification**

Use the Post-construction SMP Identification section to identify the RR techniques (Area Reduction), RR techniques (Volume Reduction) and Standard SMPs with RRv Capacity that were used to reduce the Total WQv Required (#28).

Identify the SMPs to be used by providing 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 the Post-Construction SMP Identification section 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.

**30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29. (acre-feet)**  
0.101

**31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28)?**  
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)] (acre-feet)**  
0.061

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

**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; therefore, NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

**33. SMPs**

Use the Post-construction SMP Identification section to identify the Standard SMPs and, if applicable, the Alternative SMPs to be used to treat the remaining total WQv (=Total WQv Required in #28 - Total RRv Provided in #30).

Also, provide the total impervious area that contributes runoff to each practice selected.

NOTE: Use the Post-construction SMP Identification section 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. (acre-feet)**  
0.106

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 - 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).**  
0.207

**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

If Yes, go to question 36.

If No, sizing criteria has not been met; therefore, 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 (acre-feet)**  
NONE PROVIDED

**CPv Provided (acre-feet)**  
NONE PROVIDED

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

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.**

**Overbank Flood Control Criteria (Qp)**

**Pre-Development (CFS)**  
8.420

**Post-Development (CFS)**  
4.270

**Total Extreme Flood Control Criteria (Qf)**

**Pre-Development (CFS)**  
18.450

**Post-Development (CFS)**  
10.850

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

NONE PROVIDED

**38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed?**

Yes

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

RJR Units LLC

**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.**

Due to the poorly drained soils onsite, infiltration practices can not be utilized to achieve 100% runoff reduction. Bioretention practices will be used to meet the minimum RRv.

**Post-Construction SMP Identification**

**Runoff Reduction (RR) Techniques, Standard Stormwater Management Practices (SMPs) and Alternative SMPs**

Identify the Post-construction SMPs to be used by providing 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.

**RR Techniques (Area Reduction)**

Round to the nearest tenth

**Total Contributing Acres for Conservation of Natural Area (RR-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Conservation of Natural Area (RR-1)**  
NONE PROVIDED

**Total Contributing Acres for Sheetflow to Riparian Buffers/Filter Strips (RR-2)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Sheetflow to Riparian Buffers/Filter Strips (RR-2)**  
NONE PROVIDED

**Total Contributing Acres for Tree Planting/Tree Pit (RR-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Tree Planting/Tree Pit (RR-3)**  
NONE PROVIDED

**Total Contributing Acres for Disconnection of Rooftop Runoff (RR-4)**  
NONE PROVIDED

**RR Techniques (Volume Reduction)**

---

**Total Contributing Impervious Acres for Disconnection of Rooftop Runoff (RR-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Vegetated Swale (RR-5)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Rain Garden (RR-6)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Stormwater Planter (RR-7)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Rain Barrel/Cistern (RR-8)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Porous Pavement (RR-9)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Green Roof (RR-10)**  
NONE PROVIDED

**Standard SMPs with RRv Capacity**

---

**Total Contributing Impervious Acres for Infiltration Trench (I-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Infiltration Basin (I-2)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Dry Well (I-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Underground Infiltration System (I-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Bioretention (F-5)**  
2.140

**Total Contributing Impervious Acres for Dry Swale (O-1)**  
NONE PROVIDED

**Standard SMPs**

---

**Total Contributing Impervious Acres for Micropool Extended Detention (P-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Wet Pond (P-2)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Wet Extended Detention (P-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Multiple Pond System (P-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Pocket Pond (P-5)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Surface Sand Filter (F-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Underground Sand Filter (F-2)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Perimeter Sand Filter (F-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Organic Filter (F-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Shallow Wetland (W-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Extended Detention Wetland (W-2)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Pond/Wetland System (W-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Pocket Wetland (W-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Wet Swale (O-2)**  
NONE PROVIDED

**Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)**

---

**Total Contributing Impervious Area for Hydrodynamic**  
NONE PROVIDED

**Total Contributing Impervious Area for Wet Vault**  
NONE PROVIDED

**Total Contributing Impervious Area for Media Filter**  
NONE PROVIDED

**"Other" Alternative SMP?**  
NONE PROVIDED

**Total Contributing Impervious Area for "Other"**  
NONE PROVIDED

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

**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.**

**Manufacturer of Alternative SMP**  
NONE PROVIDED

**Name of Alternative SMP**

NONE PROVIDED

**Other Permits**

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

None

**If SPDES Multi-Sector GP, then give permit ID**

NONE PROVIDED

**If Other, then identify**

NONE PROVIDED

**41. Does this project require a US Army Corps of Engineers Wetland Permit?**

No

**If "Yes," then indicate Size of Impact, in acres, to the nearest tenth**

NONE PROVIDED

**42. 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.**

NYR10W032

**MS4 SWPPP Acceptance**

**43. Is this project subject to the requirements of a regulated, traditional land use control MS4?**

Yes - Please attach the MS4 Acceptance form below

**If No, skip question 44**

**44. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI?**

Yes

**MS4 SWPPP Acceptance Form Download**

Download form from the link below. Complete, sign, and upload.

[MS4 SWPPP Acceptance Form](#)

**MS4 Acceptance Form Upload**

NONE PROVIDED

**Comment**

NONE PROVIDED

**Owner/Operator Certification**

**Owner/Operator Certification Form Download**

Download the certification form by clicking the link below. Complete, sign, scan, and upload the form.

[Owner/Operator Certification Form \(PDF, 45KB\)](#)

**Upload Owner/Operator Certification Form**

NONE PROVIDED

**Comment**

NONE PROVIDED

**Status History**

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	User	Processing Status
2/19/2021 3:34:08 PM	ABD Engineers, LLP	Draft

### Processing Steps

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Step Name	Assigned To/Completed By	Date Completed
Form Submitted		
Under Review	DAVID GASPER	

<p><b>New York State Department of Environmental Conservation</b>  <b>Division of Water</b>  <b>625 Broadway, 4th Floor</b>  <b>Albany, New York 12233-3505</b>                  *(NOTE: Submit completed form to address above)*</p>	
<p><b>NOTICE OF TERMINATION for Storm Water Discharges Authorized</b>  <b>under the SPDES General Permit for Construction Activity</b></p>	
<p><b>Please indicate your permit identification number:</b> NYR _____</p>	
<b>I. Owner or Operator Information</b>	
1. Owner/Operator Name: RJR Units LLC	
2. Street Address: 4773 Western Turnpike	
3. City/State/Zip: Guilderland, NY 12009	
4. Contact Person: Rick Ramsey	4a. Telephone:
4b. Contact Person E-Mail:	
<b>II. Project Site Information</b>	
5. Project/Site Name: A-Metro Altamont Self Storage	
6. Street Address: 4773 Western Turnpike	
7. City/Zip: Guilderland, NY 12009	
8. County: Albany	
<b>III. Reason for Termination</b>	
9a. <input type="checkbox"/> All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. *Date final stabilization completed (month/year): _____	
9b. <input type="checkbox"/> Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR _____ (Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)	
9c. <input type="checkbox"/> Other (Explain on Page 2)	
<b>IV. Final Site Information:</b>	
10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? <input type="checkbox"/> yes <input type="checkbox"/> no (If no, go to question 10f.)	
10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? <input type="checkbox"/> yes <input type="checkbox"/> no (If no, explain on Page 2)	
10c. Identify the entity responsible for long-term operation and maintenance of practice(s)? _____	

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the  
SPDES General Permit for Construction Activity - continued**

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit?     yes     no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

- Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.
- Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).
- For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.
- For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? \_\_\_\_\_  
(acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4?     yes  
 no  
(If Yes, complete section VI - "MS4 Acceptance" statement)

**V. Additional Information/Explanation:**  
(Use this section to answer questions 9c. and 10b., if applicable)

**VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative** (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:

Title/Position:

Signature:

Date:

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the  
SPDES General Permit for Construction Activity - continued**

**VII. Qualified Inspector Certification - Final Stabilization:**

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

**VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):**

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

**IX. Owner or Operator Certification**

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

(NYS DEC Notice of Termination - January 2015)

**APPENDIX C**  
**EROSION AND SEDIMENT CONTROL**  
**STANDARDS AND SPECIFICATIONS**

## STANDARD AND SPECIFICATIONS FOR CONCRETE TRUCK WASHOUT



### **Definition & Scope**

A temporary excavated or above ground lined constructed pit where concrete truck mixers and equipment can be washed after their loads have been discharged, to prevent highly alkaline runoff from entering storm drainage systems or leaching into soil.

### **Conditions Where Practice Applies**

Washout facilities shall be provided for every project where concrete will be poured or otherwise formed on the site. This facility will receive highly alkaline wash water from the cleaning of chutes, mixers, hoppers, vibrators, placing equipment, trowels, and screeds. Under no circumstances will wash water from these operations be allowed to infiltrate into the soil or enter surface waters.

### **Design Criteria**

**Capacity:** The washout facility should be sized to contain solids, wash water, and rainfall and sized to allow for the evaporation of the wash water and rainfall. Wash water shall be estimated at 7 gallons per chute and 50 gallons per hopper of the concrete pump truck and/or discharging drum. The minimum size shall be 8 feet by 8 feet at the bottom and 2 feet deep. If excavated, the side slopes shall be 2 horizontal to 1 vertical.

**Location:** Locate the facility a minimum of 100 feet from drainage swales, storm drain inlets, wetlands, streams and other surface waters. Prevent surface water from entering the structure except for the access road. Provide appropriate access with a gravel access road sloped down to the structure. Signs shall be placed to direct drivers to the facility after their load is discharged.

**Liner:** All washout facilities will be lined to prevent

leaching of liquids into the ground. The liner shall be plastic sheeting with a minimum thickness of 10 mils with no holes or tears, and anchored beyond the top of the pit with an earthen berm, sand bags, stone, or other structural appurtenance except at the access point.

If pre-fabricated washouts are used they must ensure the capture and containment of the concrete wash and be sized based on the expected frequency of concrete pours. They shall be sited as noted in the location criteria.

### **Maintenance**

- All concrete washout facilities shall be inspected daily. Damaged or leaking facilities shall be deactivated and repaired or replaced immediately. Excess rainwater that has accumulated over hardened concrete should be pumped to a stabilized area, such as a grass filter strip.
- Accumulated hardened material shall be removed when 75% of the storage capacity of the structure is filled. Any excess wash water shall be pumped into a containment vessel and properly disposed of off site.
- Dispose of the hardened material off-site in a construction/demolition landfill. On-site disposal may be allowed if this has been approved and accepted as part of the projects SWPPP. In that case, the material should be recycled as specified, or buried and covered with a minimum of 2 feet of clean compacted earthfill that is permanently stabilized to prevent erosion.
- The plastic liner shall be replaced with each cleaning of the washout facility.
- Inspect the project site frequently to ensure that no concrete discharges are taking place in non-designated areas.

## STANDARD AND SPECIFICATIONS FOR STABILIZED CONSTRUCTION ACCESS



inert to commonly encountered chemicals, hydro-carbons, mildew, rot resistant, and conform to the fabric properties as shown:

Fabric Properties <sup>3</sup>	Light Duty <sup>1</sup> Roads Grade Sub-grade	Heavy Duty <sup>2</sup> Haul Roads Rough Graded	Test Method
Grab Tensile Strength (lbs)	200	220	ASTM D1682
Elongation at Failure (%)	50	60	ASTM D1682
Mullen Burst Strength (lbs)	190	430	ASTM D3786
Puncture Strength (lbs)	40	125	ASTM D751 Modified
Equivalent	40-80	40-80	US Std Sieve
Opening Size			CW-02215
Aggregate Depth	6	10	-

### Definition & Scope

A stabilized pad of aggregate underlain with geotextile located at any point where traffic will be entering or leaving a construction site to or from a public right-of-way, street, alley, sidewalk, or parking area. The purpose of stabilized construction access is to reduce or eliminate the tracking of sediment onto public rights-of-way or streets.

### Conditions Where Practice Applies

A stabilized construction access shall be used at all points of construction ingress and egress.

### Design Criteria

See Figure 2.1 on page 2.31 for details.

**Aggregate Size:** Use a matrix of 1-4 inch stone, or reclaimed or recycled concrete equivalent.

**Thickness:** Not less than six (6) inches.

**Width:** 12-foot minimum but not less than the full width of points where ingress or egress occurs. 24-foot minimum if there is only one access to the site.

**Length:** As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum would apply).

**Geotextile:** To be placed over the entire area to be covered with aggregate. Filter cloth will not be required on a single-family residence lot. Piping of surface water under entrance shall be provided as required. If piping is impossible, a mountable berm with 5:1 slopes will be permitted.

**Criteria for Geotextile:** The geotextile shall be woven or nonwoven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The fabric shall be

<sup>1</sup>Light Duty Road: Area sites that have been graded to subgrade and where most travel would be single axle vehicles and an occasional multi-axle truck. Acceptable materials are Trevira Spunbond 1115, Mirafi 100X, Typar 3401, or equivalent.

<sup>2</sup>Heavy Duty Road: Area sites with only rough grading, and where most travel would be multi-axle vehicles. Acceptable materials are Trevira Spunbond 1135, Mirafi 600X, or equivalent.

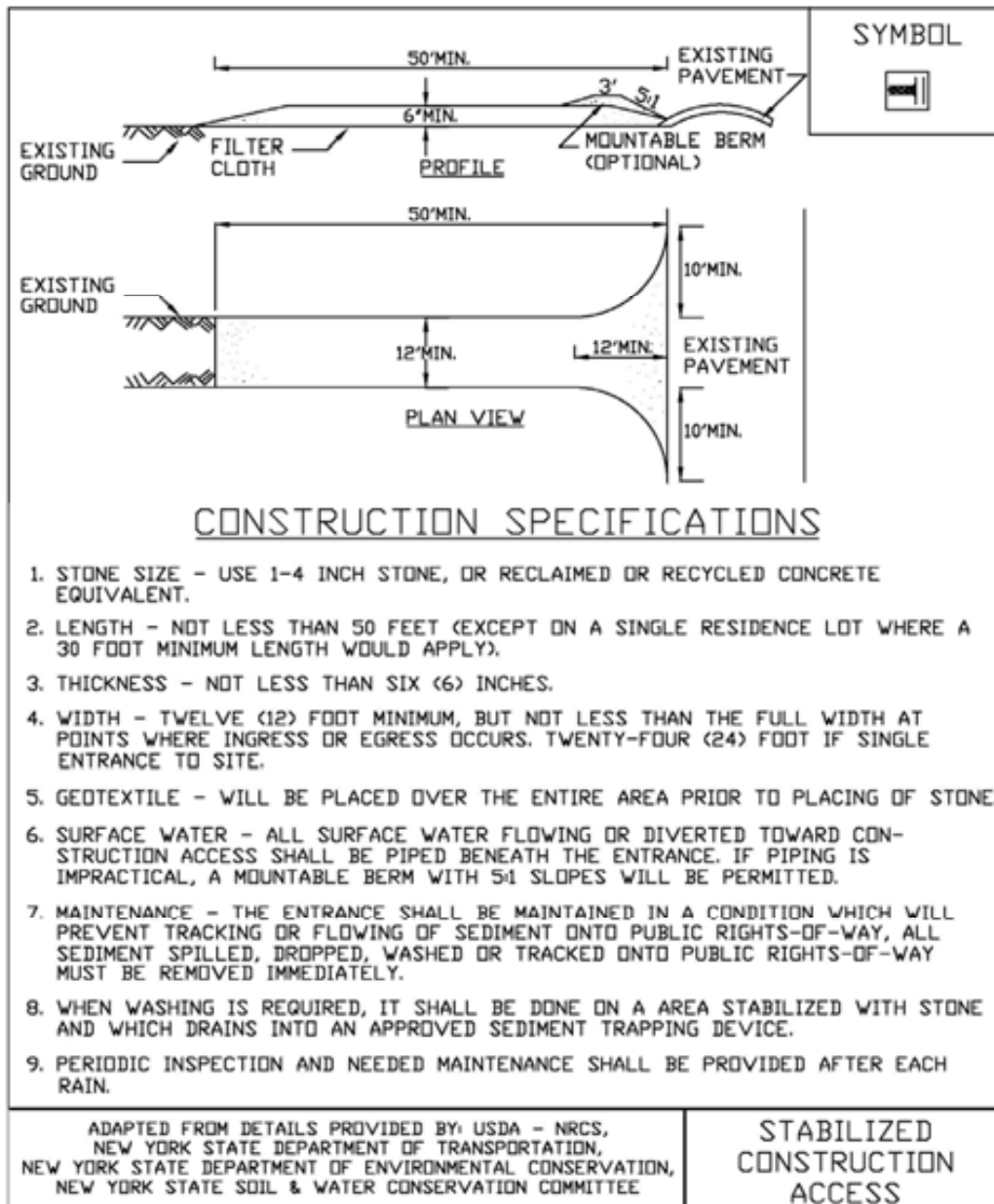
<sup>3</sup>Fabrics not meeting these specifications may be used only when design procedure and supporting documentation are supplied to determine aggregate depth and fabric strength.

### Maintenance

The access shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way or streets. This may require periodic top dressing with additional aggregate. All sediment spilled, dropped, or washed onto public rights-of-way must be removed immediately.

When necessary, wheels must be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with aggregate, which drains into an approved sediment-trapping device. All sediment shall be prevented from entering storm drains, ditches, or watercourses.

**Figure 2.1  
Stabilized Construction Access**



## STANDARD AND SPECIFICATIONS FOR MULCHING



### **Definition and Scope**

Applying coarse plant residue or chips, or other suitable materials, to cover the soil surface to provide initial erosion control while a seeding or shrub planting is establishing. Mulch will conserve moisture and modify the surface soil temperature and reduce fluctuation of both. Mulch will prevent soil surface crusting and aid in weed control. Mulch can also be used alone for temporary stabilization in non-growing months. Use of stone as a mulch could be more permanent and should not be limited to non-growing months.

### **Conditions Where Practice Applies**

On soils subject to erosion and on new seedings and shrub plantings. Mulch is useful on soils with low infiltration rates by retarding runoff.

### **Criteria**

Site preparation prior to mulching requires the installation of necessary erosion control or water management practices and drainage systems.

Slope, grade and smooth the site to fit needs of selected mulch products.

Remove all undesirable stones and other debris to meet the needs of the anticipated land use and maintenance required.

Apply mulch after soil amendments and planting is accomplished or simultaneously if hydroseeding is used.

Select appropriate mulch material and application rate or material needs. Hay mulch shall not be used in wetlands or in areas of permanent seeding. Clean straw mulch is preferred alternative in wetland application. Determine local availability.

Select appropriate mulch anchoring material.

NOTE: The best combination for grass/legume establishment is straw (cereal grain) mulch applied at 2 ton/acre (90 lbs./1000sq.ft.) and anchored with wood fiber mulch (hydromulch) at 500 – 750 lbs./acre (11 – 17 lbs./1000 sq. ft.). The wood fiber mulch must be applied through a hydroseeder immediately after mulching.



**Table 4.2  
Guide to Mulch Materials, Rates, and Uses**

Mulch Material	Quality Standards	per 1000 Sq. Ft.	per Acre	Depth of Application	Remarks
Wood chips or shavings	Air-dried. Free of objectionable coarse material	500-900 lbs.	10-20 tons	2-7"	Used primarily around shrub and tree plantings and recreation trails to inhibit weed competition. Resistant to wind blowing. Decomposes slowly.
Wood fiber cellulose (partly digested wood fibers)	Made from natural wood usually with green dye and dispersing agent	50 lbs.	2,000 lbs.	—	Apply with hydromulcher. No tie down required. Less erosion control provided than 2 tons of hay or straw.
Gravel, Crushed Stone or Slag	Washed; Size 2B or 3A—1 1/2"	9 cu. yds.	405 cu. yds.	3"	Excellent mulch for short slopes and around plants and ornamentals. Use 2B where subject to traffic. (Approximately 2,000 lbs./cu. yd.). Frequently used over filter fabric for better weed control.
Hay or Straw	Air-dried, free of undesirable seeds & coarse materials	90-100 lbs. 2-3 bales	2 tons (100-120 bales)	cover about 90% surface	Use small grain straw where mulch is maintained for more than three months. Subject to wind blowing unless anchored. Most commonly used mulching material. Provides the best micro-environment for germinating seeds.
Jute twisted yarn	Undyed, unbleached plain weave. Warp 78 ends/yd., Weft 41 ends/yd. 60-90 lbs./roll	48" x 50 yds. or 48" x 75 yds.	—	—	Use without additional mulch. Tie down as per manufacturers specifications. Good for center line of concentrated water flow.
Excelsior wood fiber mats	Interlocking web of excelsior fibers with photodegradable plastic netting	4' x 112.5' or 8' x 112.5'	—	—	Use without additional mulch. Excellent for seeding establishment. Anchor as per manufacturers specifications. Approximately 72 lbs./roll for excelsior with plastic on both sides. Use two sided plastic for centerline of waterways.
Straw or coconut fiber, or combination	Photodegradable plastic net on one or two sides	Most are 6.5 ft. x 3.5 ft.	81 rolls	—	Designed to tolerate higher velocity water flow, centerlines of waterways, 60 sq. yds. per roll.

**Table 4.3**  
**Mulch Anchoring Guide**

Anchoring Method or Material	Kind of Mulch to be Anchored	How to Apply
1. Peg and Twine	Hay or straw	After mulching, divide areas into blocks approximately 1 sq. yd. in size. Drive 4-6 pegs per block to within 2" to 3" of soil surface. Secure mulch to surface by stretching twine between pegs in criss-cross pattern on each block. Secure twine around each peg with 2 or more tight turns. Drive pegs flush with soil. Driving stakes into ground tightens the twine.
2. Mulch netting	Hay or straw	Staple the light-weight paper, jute, wood fiber, or plastic nettings to soil surface according to manufacturer's recommendations. Should be biodegradable. Most products are not suitable for foot traffic.
3. Wood cellulose fiber	Hay or straw	Apply with hydroseeder immediately after mulching. Use 500 lbs. wood fiber per acre. Some products contain an adhesive material ("tackifier"), possibly advantageous.
4. Mulch anchoring tool	Hay or straw	Apply mulch and pull a mulch anchoring tool (blunt, straight discs) over mulch as near to the contour as possible. Mulch material should be "tucked" into soil surface about 3".
5. Tackifier	Hay or straw	Mix and apply polymeric and gum tackifiers according to manufacturer's instructions. Avoid application during rain. A 24-hour curing period and a soil temperature higher than 45 <sup>o</sup> Fahrenheit are required.

## STANDARD AND SPECIFICATIONS FOR TEMPORARY CONSTRUCTION AREA SEEDING



### Criteria

Water management practices must be installed as appropriate for site conditions. The area must be rough graded and slopes physically stable. Large debris and rocks are usually removed. Seedbed must be seeded within 24 hours of disturbance or scarification of the soil surface will be necessary prior to seeding.

Fertilizer or lime are not typically used for temporary seedings.

IF: Spring or summer or early fall, then seed the area with ryegrass (annual or perennial) at 30 lbs. per acre (Approximately 0.7 lb./1000 sq. ft. or use 1 lb./1000 sq. ft.).

IF: Late fall or early winter, then seed Certified 'Aroostook' winter rye (cereal rye) at 100 lbs. per acre (2.5 lbs./1000 sq. ft.).

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.

Mulch the area with hay or straw at 2 tons/acre (approx. 90 lbs./1000 sq. ft. or 2 bales). 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 manufacturers' specification. Caution is advised when using nylon or other synthetic products. They may be difficult to remove prior to final seeding and can be a hazard to young wildlife species.

### Definition & Scope

Providing temporary erosion control protection to disturbed areas and/or localized critical areas for an interim period by covering all bare ground that exists as a result of construction activities or a natural event. Critical areas may include but are not limited to steep excavated cut or fill slopes and any disturbed, denuded natural slopes subject to erosion.

### Conditions Where Practice Applies

Temporary seedings may be necessary on construction sites to protect an area, or section, where final grading is complete, when preparing for winter work shutdown, or to provide cover when permanent seedings are likely to fail due to mid-summer heat and drought. The intent is to provide temporary protective cover during temporary shutdown of construction and/or while waiting for optimal planting time.

## STANDARD AND SPECIFICATIONS FOR TOPSOILING



### **Definition & Scope**

Spreading a specified quality and quantity of topsoil materials on graded or constructed subsoil areas to provide acceptable plant cover growing conditions, thereby reducing erosion; to reduce irrigation water needs; and to reduce the need for nitrogen fertilizer application.

### **Conditions Where Practice Applies**

Topsoil is applied to subsoils that are droughty (low available moisture for plants), stony, slowly permeable, salty or extremely acid. It is also used to backfill around shrub and tree transplants. This standard does not apply to wetland soils.

### **Design Criteria**

1. Preserve existing topsoil in place where possible, thereby reducing the need for added topsoil.
2. Conserve by stockpiling topsoil and friable fine textured subsoils that must be stripped from the excavated site and applied after final grading where vegetation will be established. Topsoil stockpiles must be stabilized. Stockpile surfaces can be stabilized by vegetation, geotextile or plastic covers. This can be aided by orientating the stockpile lengthwise into prevailing winds.
3. Refer to USDA Natural Resource Conservation Service soil surveys or soil interpretation record sheets for further soil texture information for selecting appropriate design topsoil depths.

### **Site Preparation**

1. As needed, install erosion and sediment control practices such as diversions, channels, sediment traps, and stabilizing measures, or maintain if already installed.
2. Complete rough grading and final grade, allowing for depth of topsoil to be added.
3. Scarify all compact, slowly permeable, medium and fine textured subsoil areas. Scarify at approximately right angles to the slope direction in soil areas that are steeper than 5 percent. Areas that have been overly compacted shall be decompacting in accordance with the Soil Restoration Standard.
4. Remove refuse, woody plant parts, stones over 3 inches in diameter, and other litter.

### **Topsoil Materials**

1. Topsoil shall have at least 6 percent by weight of fine textured stable organic material, and no greater than 20 percent. Muck soil shall not be considered topsoil.
2. Topsoil shall have not less than 20 percent fine textured material (passing the NO. 200 sieve) and not more than 15 percent clay.
3. Topsoil treated with soil sterilants or herbicides shall be so identified to the purchaser.
4. Topsoil shall be relatively free of stones over 1 1/2 inches in diameter, trash, noxious weeds such as nut sedge and quackgrass, and will have less than 10 percent gravel.
5. Topsoil containing soluble salts greater than 500 parts per million shall not be used.
6. Topsoil may be manufactured as a mixture of a mineral component and organic material such as compost.

### **Application and Grading**

1. Topsoil shall be distributed to a uniform depth over the area. It shall not be placed when it is partly frozen, muddy, or on frozen slopes or over ice, snow, or standing water puddles.
2. Topsoil placed and graded on slopes steeper than 5 percent shall be promptly fertilized, seeded, mulched, and stabilized by "tracking" with suitable equipment.
3. Apply topsoil in the amounts shown in Table 4.7 below:

<b>Table 4.7 - Topsoil Application Depth</b>		
<b>Site Conditions</b>	<b>Intended Use</b>	<b>Minimum Topsoil Depth</b>
1. Deep sand or loamy sand	Mowed lawn	6 in.
	Tall legumes, unmowed	2 in.
	Tall grass, unmowed	1 in.
2. Deep sandy loam	Mowed lawn	5 in.
	Tall legumes, unmowed	2 in.
	Tall grass, unmowed	none
3. Six inches or more: silt loam, clay loam, loam, or silt	Mowed lawn	4 in.
	Tall legumes, unmowed	1 in.
	Tall grass, unmowed	1 in.

## STANDARD AND SPECIFICATIONS FOR SILT FENCE



### Definition & Scope

A **temporary** barrier of geotextile fabric installed on the contours across a slope used to intercept sediment laden runoff from small drainage areas of disturbed soil by temporarily ponding the sediment laden runoff allowing settling to occur. The maximum period of use is limited by the ultraviolet stability of the fabric (approximately one year).

### Conditions Where Practice Applies

A silt fence may be used subject to the following conditions:

1. Maximum allowable slope length and fence length will not exceed the limits shown in the Design Criteria for the specific type of silt fence used ; and
2. Maximum ponding depth of 1.5 feet behind the fence; and
3. Erosion would occur in the form of sheet erosion; and
4. There is no concentration of water flowing to the barrier; and
5. Soil conditions allow for proper keying of fabric, or other anchorage, to prevent blowouts.

### Design Criteria

1. Design computations are not required for installations of 1 month or less. Longer installation periods should be designed for expected runoff.
2. All silt fences shall be placed as close to the disturbed area as possible, but at least 10 feet from the toe of a slope steeper than 3H:1V, to allow for maintenance and

roll down. The area beyond the fence must be undisturbed or stabilized.

3. The type of silt fence specified for each location on the plan shall not exceed the maximum slope length and maximum fence length requirements shown in the following table:

Slope	Steepness	Slope Length/Fence Length (ft.)		
		Standard	Reinforced	Super
<2%	< 50:1	300/1500	N/A	N/A
2-10%	50:1 to 10:1	125/1000	250/2000	300/2500
10-20%	10:1 to 5:1	100/750	150/1000	200/1000
20-33%	5:1 to 3:1	60/500	80/750	100/1000
33-50%	3:1 to 2:1	40/250	70/350	100/500
>50%	> 2:1	20/125	30/175	50/250

**Standard Silt Fence (SF)** is fabric rolls stapled to wooden stakes driven 16 inches in the ground.

**Reinforced Silt Fence (RSF)** is fabric placed against welded wire fabric with anchored steel posts driven 16 inches in the ground.

**Super Silt Fence (SSF)** is fabric placed against chain link fence as support backing with posts driven 3 feet in the ground.

4. Silt fence shall be removed as soon as the disturbed area has achieved final stabilization.

The silt fence shall be installed in accordance with the appropriate details. Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent sediment bypass. Butt joints are not acceptable. A detail of the silt fence shall be shown on the plan. See Figure 5.30 on page 5.56 for Reinforced Silt Fence as an example of details to be provided.

### Criteria for Silt Fence Materials

1. Silt Fence Fabric: The fabric shall meet the following specifications unless otherwise approved by the appropriate erosion and sediment control plan approval authority. Such approval shall not constitute statewide acceptance.

Fabric Properties	Minimum Acceptable Value	Test Method
Grab Tensile Strength (lbs)	110	ASTM D 4632
Elongation at Failure (%)	20	ASTM D 4632
Mullen Burst Strength (PSI)	300	ASTM D 3786
Puncture Strength (lbs)	60	ASTM D 4833
Minimum Trapezoidal Tear Strength (lbs)	50	ASTM D 4533
Flow Through Rate (gal/min/sf)	25	ASTM D 4491
Equivalent Opening Size	40-80	US Std Sieve ASTM D 4751
Minimum UV Residual (%)	70	ASTM D 4355

Super Silt Fence

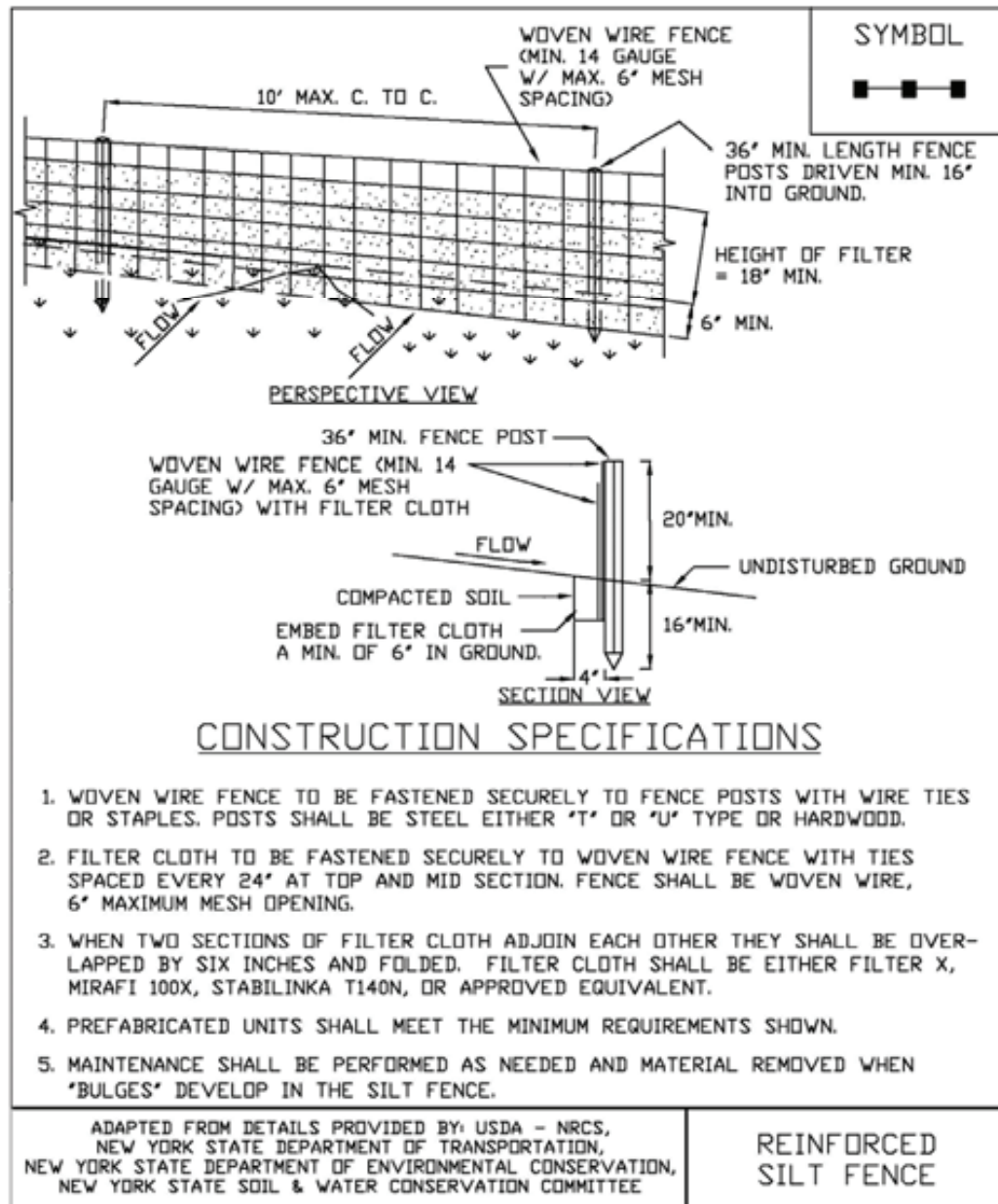


2. Fence Posts (for fabricated units): The length shall be a minimum of 36 inches long. Wood posts will be of sound quality hardwood with a minimum cross sectional area of 3.5 square inches. Steel posts will be standard T and U section weighing not less than 1.00 pound per linear foot. Posts for super silt fence shall be standard chain link fence posts.
3. Wire Fence for reinforced silt fence: Wire fencing shall be a minimum 14 gage with a maximum 6 in. mesh opening, or as approved.
4. Prefabricated silt fence is acceptable as long as all material specifications are met.

Reinforced Silt Fence



**Figure 5.30  
Reinforced Silt Fence**



**APPENDIX D  
SWPPP FORMS**

**STORMWATER POLLUTION PREVENTION PLAN  
SPILL RESPONSE REPORT**

**Within 1 hour of a spill discovery less than 2 gallons in volume the following must be notified:**

- 1. **RJR Units LLC**
- 2. **ABD Engineers, LLP, 518-377-0315**
- 3. **Town of Guilderland, 518-356-1980**

**Within 1 hour of a spill discovery greater than 2 gallons in volume the following must be notified:**

- 1. **NYSDEC Spill Response Hotline 800-457-7362**
- 2. **RJR Units LLC**
- 3. **ABD Engineers, LLP, 518-377-0315**
- 4. **Spill Response Contractor, e.g. Kleen Resources, 518-462-0400 or others by contractor.**
- 5. **Town of Guilderland, 518-356-1980**

**Please complete following information:**

- 1. **Material Spilled:** \_\_\_\_\_
- 2. **Approximate Volume:** \_\_\_\_\_
- 3. **Location:** \_\_\_\_\_
- 4. **Distance to nearest down gradient drainage way:** \_\_\_\_\_
- 5. **Distance to nearest down gradient open water:** \_\_\_\_\_
- 6. **Temporary control measures in place:** \_\_\_\_\_

**SIGNATURE OF PERSON REPORTING SPILL AND COMPLETING FORM:**

\_\_\_\_\_  
**PRINT NAME, TITLE AND COMPANY:**

\_\_\_\_\_  
**DATE AND TIME OF SPILL:**

\_\_\_\_\_  
**DATE AND TIME REPORTED:**

### Bioretention Construction Inspection Checklist

Project:  
 Location:  
 Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
<b>1. Pre-Construction</b>		
Pre-construction meeting		
Runoff diverted		
Facility area cleared		
If designed as exfilter, soil testing for permeability		
Facility location staked out		
<b>2. Excavation</b>		
Size and location		
Lateral slopes completely level		
If designed as exfilter, ensure that excavation does not compact susoils.		
Longitudinal slopes within design range		

CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
<b>3. Structural Components</b>		
Stone diaphragm installed correctly		
Outlets installed correctly		
Underdrain		
Pretreatment devices installed		
Soil bed composition and texture		
<b>4. Vegetation</b>		
Complies with planting specs		
Topsoil adequate in composition and placement		
Adequate erosion control measures in place		
<b>5. Final Inspection</b>		
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		





**Delaware Engineering, D.P.C.**

28 Madison Avenue Extension  
Albany, New York 12203

Tel: 518.452.1290  
Fax: 518.452.1335

April 19, 2021

Ms. Jacqueline Coons, Chief Building and Zoning Inspector  
Guilderland Town Hall  
5209 Western Turnpike, P.O. Box 339  
Guilderland, New York 12084

RE: A-Metro Altamont Self Storage Review  
4773 Western Turnpike  
Applicant: RJR Units LLC  
4773 Western Turnpike, Guilderland, NY 12009

Dear Ms. Coons:

Delaware Engineering has reviewed the proposed A-Metro Self Storage Project. The project is proposed to be located at 4773 Western Turnpike, and will be an expansion of the existing storage facility located there. The proposed project will consist of six (6) additional storage buildings, one indoor self-storage, two RV storage, and three climate controlled self-storage buildings.

The following information as part of the Application for the proposed A-Metro Self Storage Project has been submitted by the Applicant and reviewed.

- Comment Response Letter, Dates 4/12/2021
- Site Plan Drawing set, Revised 4/12/2021
- Stormwater Management Report revised 4/12/2021
- Stormwater Pollution Prevention Plan revised 4/12/2021

The review comments are as follows:

1. Please provide pre and post runoff discharge analysis based on design points where the runoff leaves the site. It appears that area Pre 1 discharges to the north of the site and in the post condition, both Post 1A and Post 2A flow to the north and may have a higher discharge than Pre 1. Please review.

*Response: Additional tables have been added to the stormwater management report which summarize the peak discharge rates to each design point. Flow rates to each point are reduced in the post-development condition.*

**How does the runoff from the roof of the southern RV storage building make it to the bioretention areas? Along the northern section of pavement, provide a wing gutter or similar feature to make sure that all runoff from impervious area discharges to one of the bioretention areas.**

---

55 South Main St, Oneonta, New York 13820 · Phone (607) 432-8073  
16 East Market St, Red Hook, New York 12571 · Phone (518) 452-1290  
548 Broadway, Monticello, New York 12701 · Phone (845) 791-7777  
223 Main St, Suite 103, Goshen, New York 10924 · Phone (845) 615-9232

**Please clearly label the 12” culvert outlet from Bioretention area #2. Please indicate the top elevation of the stone berm for the pretreatment area. Please make sure that the main bioretention outlet is not in the pretreatment area. The outlet should promote a long flow path through the treatment practice and not promote “short circuiting” the practice.**

2. Have any soil tests/test pits been conducted to document the elevation of the seasonally high water table in the vicinity of the proposed bioretention areas?

*Response: Test pits shall be conducted prior to construction of the bioretention areas. A 6” compacted clay bottom is proposed for the bioretention areas, however if 2’ of groundwater separation cannot be met, an HDPE flexible geomembrane liner will be installed; this is now indicated on the bioretention detail.*

**Soil tests should be completed prior to finalizing the SWPPP and submission of the NOI.**

3. It appears that the roof runoff from the new building closest to US-20 is not being treated. It also appears that this area is not included in the pre and post runoff analysis. Please review.

*Response: The roof drain for the 6,100± SF building is now directed into the existing bioretention area. The area of the new building was previously occupied by an existing house which contributed runoff to the adjacent bioretention area.*

**Please provide pre and post analysis for this area. The new building is larger than the existing building and there is a proposed increase to the adjacent paved area.**

4. It appears that the runoff from the new building closest to US-20 is discharging to an existing quantity control basin. Provide analysis showing that this additional flow can be properly controlled by the basin.

*Response: The roof drain for the 6,100± SF building is now directed into the existing bioretention area. The building and adjacent pavement area will generate approximately 0.3 CFS of flow during the 100-year storm (an increase of 0.2 CFS from existing conditions). The capacity of the adjacent bioretention area and infiltration areas are 1,920± CF and 6,033± CF, respectively; adequate capacity exists to handle the additional flow.*

**It appears that the new proposed pavement in this area will encroach on the existing bioretention area. Please provide design calculations for the bioretention area showing it still meets treatment requirements.**

5. The Site Plan indicates that the pea stone diaphragm is 2 ft wide. Please revise the detail to indicate this width.

*Response: The detail has been revised.*

**Response noted.**

6. Stone level spreaders are proposed at the outlet from the bioretention areas. Please provide a detail for the level spreaders.

*Response: A level spreader detail has been added.*

**Please clearly indicate the layer thickness of the light stone fill.**

7. Please include and label all existing stormwater facilities on the plans.

*Response: The existing stormwater facilities are now labeled.*

**Response noted.**

8. The soil hydraulic conductivity for bioretention media in the calculations does not match the exfiltration rate in the HydroCAD model. Please review.

*Response: The HydroCAD model has been revised accordingly.*

**Response noted.**

9. The bioretention nodes in the HydroCAD model should not allow inflow to enter the stone layer or soil media prior to entering the ponding volume. The exfiltration outlet invert should be the same elevation as the invert of the ponding volume. Please revise.

*Response: The exfiltration outlet invert has been revised to match the ponding invert elevation.*

**It appears that inflow is still being allowed to directly enter the stone layer without first having to exfiltrate out of the ponding area. Please remove the soil and stone volumes from the bioretention nodes.**

- 9A. Bioretention area 2 spillway elevation on the plans does not match the HydroCAD model. Please label the spillway in bioretention area 1. Please provide spillway dimensions/details on the plans.

10. It is not clear if the pretreatment area is being included in the required filter area. Please make sure that the pretreatment area is not included in the filter area. Additionally, underdrains are not necessary in the pretreatment areas. Please review and clarify.

*Response: The pretreatment area is not included in the filter area. The underdrains have been revised to terminate outside of the pretreatment areas.*

**Response noted.**

11. Please provide calculations to show that the drainage system can safely convey the 100-year event through the site.

*Response: Any potential runoff from the 100-year event which does not enter the catch basin system will sheet flow across the asphalt pavement and enter the perimeter stone diaphragm.*

**Please make sure that all runoff matches the designated drainage areas. Please clearly indicate on the plans any features (i.e. wing gutters) that are necessary to ensure the stormwater flows to the bioretention areas during all design storms.**

12. Please make sure that proposed locations for silt fence during construction are clearly indicated on the plans. Additionally, the height of the silt fence filter fabric should be a minimum of 18" above grade per the New York State Standards and Specifications for Erosion Control.

*Response: The location of proposed silt fence is now shown on Sheet 2. The detail has been revised to show the height of the filter fabric at a minimum of 18".*

**Response noted.**

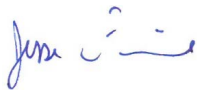
13. Were soil tests completed to properly size the new septic system? Has the system been fully designed? Please include details on the plans.

*Response: The proposed septic system is to be located near the former septic system, which functioned adequately. A test pit and percolation test shall be conducted prior to construction of the septic system. Full design details are now included on Sheet 3 of the plans.*

**Please provide approval from Albany County Department of Health prior to starting construction.**

Please do not hesitate to contact me with any questions or concerns at (518) 452-1290 x211 or via email at [jfraine@delawareengineering.com](mailto:jfraine@delawareengineering.com).

Sincerely,



Jesse Fraine  
Engineer

CC: Kenneth Kovalchik, AICP, Town Planner  
Joseph Bianchine PE, ABD Engineers, LLP

**TOWN OF GUILDERLAND  
PUBLIC NOTICE OF HEARING BEFORE  
ZONING BOARD OF APPEALS**

Notice is hereby given that the Zoning Board of Appeals of the Town of Guilderland, New York, will *resume* a public hearing pursuant to Articles III, IV & V of the Zoning Law Section 227 and Section 239 of the Town Code on the following proposition:

Special Use Permit/Variance Request No. 4800

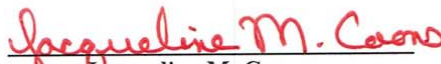
Request of Rick Ramsey for a Special Use Permit under the Zoning Law to permit: the expansion of an existing self-storage facility. Variances are requested for 1) relief from the Town Code that requires the installation of a fire sprinkler system in new buildings and 2) to permit a 10ft side setback where 25ft is required.

Per Articles III, IV & V Sections 280-22, 280-24, 280-51 & 280-52 and 239-3 respectively

For property owned by RJR Units LLC  
Situated as follows: 4773 Western Turnpike Altamont, NY 12009  
Tax Map # 26.00-3-36.1 Zoned: Ind

Due to COVID-19 gathering restrictions, plans are only available for public inspection on the Town website at <https://www.townofguilderland.org/zoning-board-appeals> . Said hearing will take place on the 21<sup>st</sup> of April, 2021 at 7:00pm. Members of the public may listen to and view the meeting live on Verizon channel 34 and Spectrum channel 1303, on the Town website, and may dial 1-929-205-6099 for meeting id 840 3829 2241 using passcode 486698 to participate in the public comment period.

Dated: April 15, 2021

  
Jacqueline M. Coons  
Chief Building & Zoning Inspector

### TOWN OF GUILDERLAND CHECKLIST FOR VARIANCE

**RETURN TO:**  
ZONING ADMINISTRATOR  
PO BOX 339  
GUILDERLAND, NY 12084  
(518) 356-1980

**FEES:**  
COMMERCIAL - \$300  
RESIDENTIAL - \$50  
(payable at time of submittal to  
Town of Guilderland)

**APPLICANT INFORMATION:    PROPERTY**

Name: Kyle Bisnett  
Address: 6792 Westfall Rd.  
Altamont, NY Zip: 12009  
Daytime Phone #: 518-378-5312  
Date: 03/28/2021

**INFORMATION:**

Owner: Kyle Bisnett  
Location: 6792 Westfall Rd  
Tax Map #: 25.00-2-1  
Zoning: R45  
Acreage: 12.6

**TO BE SUBMITTED:**

- 1) 12 copies of application
- 2) Copy of conditional purchase contract or rental agreement if applicable
- 3) 12 copies of the project narrative containing the following: reasons which necessitate the need for a variance including a brief detailed description of the project
- 4) Architectural drawings of proposed project (if applicable)
- 5) 12 copies of survey or plot plan showing proposed project with:
  - side setback
  - front and rear setbacks
  - all existing buildings
  - location of proposed construction
  - total size of parcel
  - all topographic elevations necessary to show proposed variance

**OTHER AGENCY APPROVALS OR RECOMMENDATIONS AS REQUIRED:**

- 1) Town Water and Wastewater Management – 456-6474
- 2) Town Highway Department – 861-5108
- 3) NYS Department of Transportation – 765-2841
- 4) Albany County Health Department – 447-4631
- 5) Albany County Planning Board – 447-5660

**APPLICATION AND APPEAL TO THE ZONING BOARD OF APPEALS FOR A VARIANCE, SPECIAL USE PERMIT OR AN INTERPRETATION OF THE ZONING ORDINANCE OR ZONING MAP.**

To Zoning Administrative Officer  
Of the Town of Guilderland

Date: 03/28/2021

To the Zoning Board of Appeals  
Of the Town of Guilderland

I, Kyle J Bisnett of 6792 Westfall Rd.  
hereby appeal from the decision of the Zoning Administration Officer on my application  
for zoning permit and hereby apply to the Zoning Board of Appeals for:

- An interpretation of the Zoning Ordinance or Zoning Map
- A Special Use Permit under the Zoning Ordinance or Zoning Map
- A Variance to the Zoning Ordinance or Zoning Map

1. Location of property

Address: 6792 Westfall Rd. Zoning: RAS

2. Interpretation of the Zoning Ordinance is requested because:

N/A

3. Special Use Permit required for the following type of use:

N/A

\* 4. Variance to the Zoning Ordinance is requested for:

Building of a 40x40x16 building in the front of the house. Please see attached project letter.

*exceeding 15ft in height*

\* Applicant shall complete form outlining conditions from Section 267-b of New York State Town Law pertaining to area variances.

The applicant hereby certifies that he is the owner of record of the above property or has been duly authorized in writing by the owner of record to make this application.

  
Signature of applicant

## AREA VARIANCE CONDITIONS

The Zoning Board of Appeals will not consider any application for an area variance complete until the following application is completed in full and submitted to the Zoning Department. The Zoning Board of Appeals will evaluate the applicant's responses and determine whether the applicant has adequately met the conditions for an area variance. The applicant is encouraged to attach additional sheets if necessary to fully answer the questions. The following conditions for an area variance are from Section 267-b of the New York State Town Law.

1) Whether an undesirable change will be produced in the character of the neighborhood or a detriment to nearby properties will be created by the granting of the area variance;

An undesirable change or detriment to nearby properties will not be created since the building location is covered by 150ft. tree line.

2) Whether the benefit sought by the applicant can be achieved by some method, feasible for the applicant to pursue, other than an area variance;

unfortunately the benefit cannot be achieved due to an existing septic system & leach field on the left side of the house and foundation perimeter drainage on the right side of the house.

3) Whether the requested area variance is substantial;

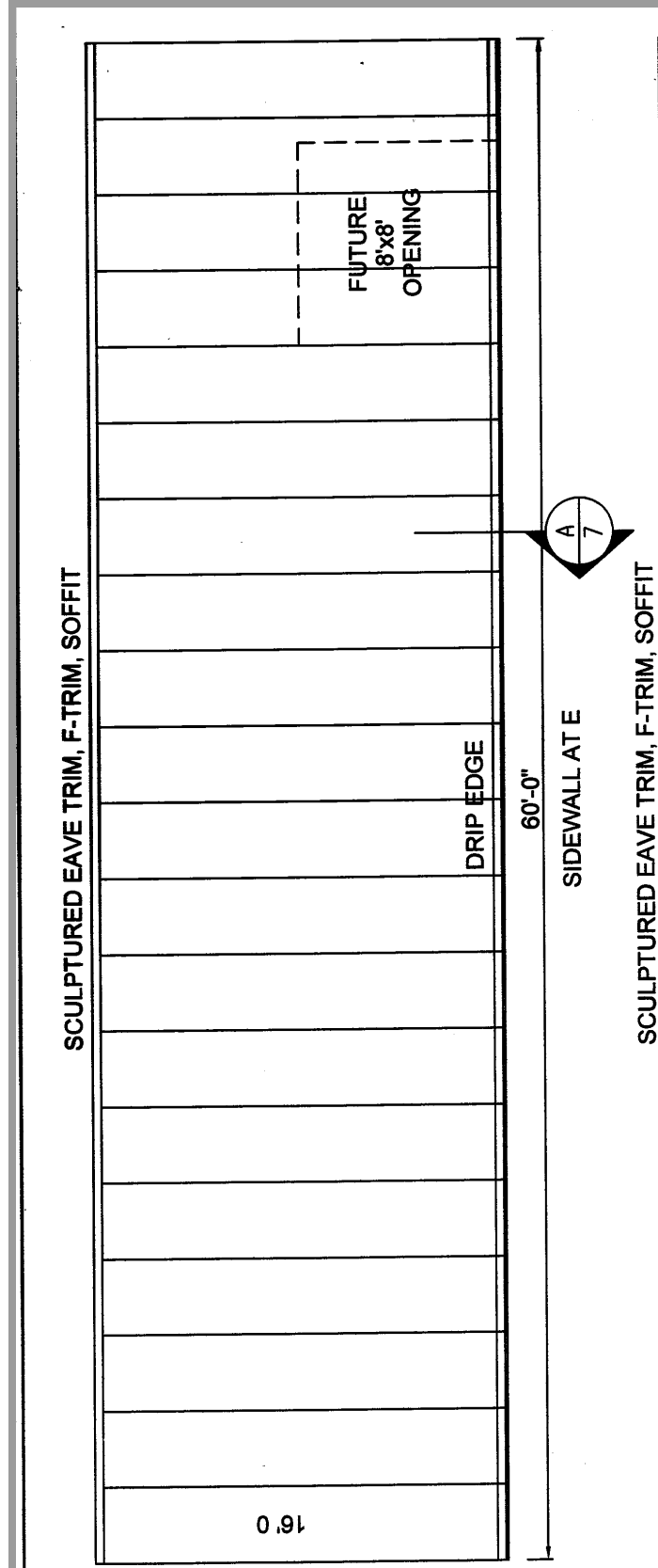
The variance is not substantial due to the existing tree line and large setback of the house from the road. Additionally the proposed building location is still connected to the existing driveway.

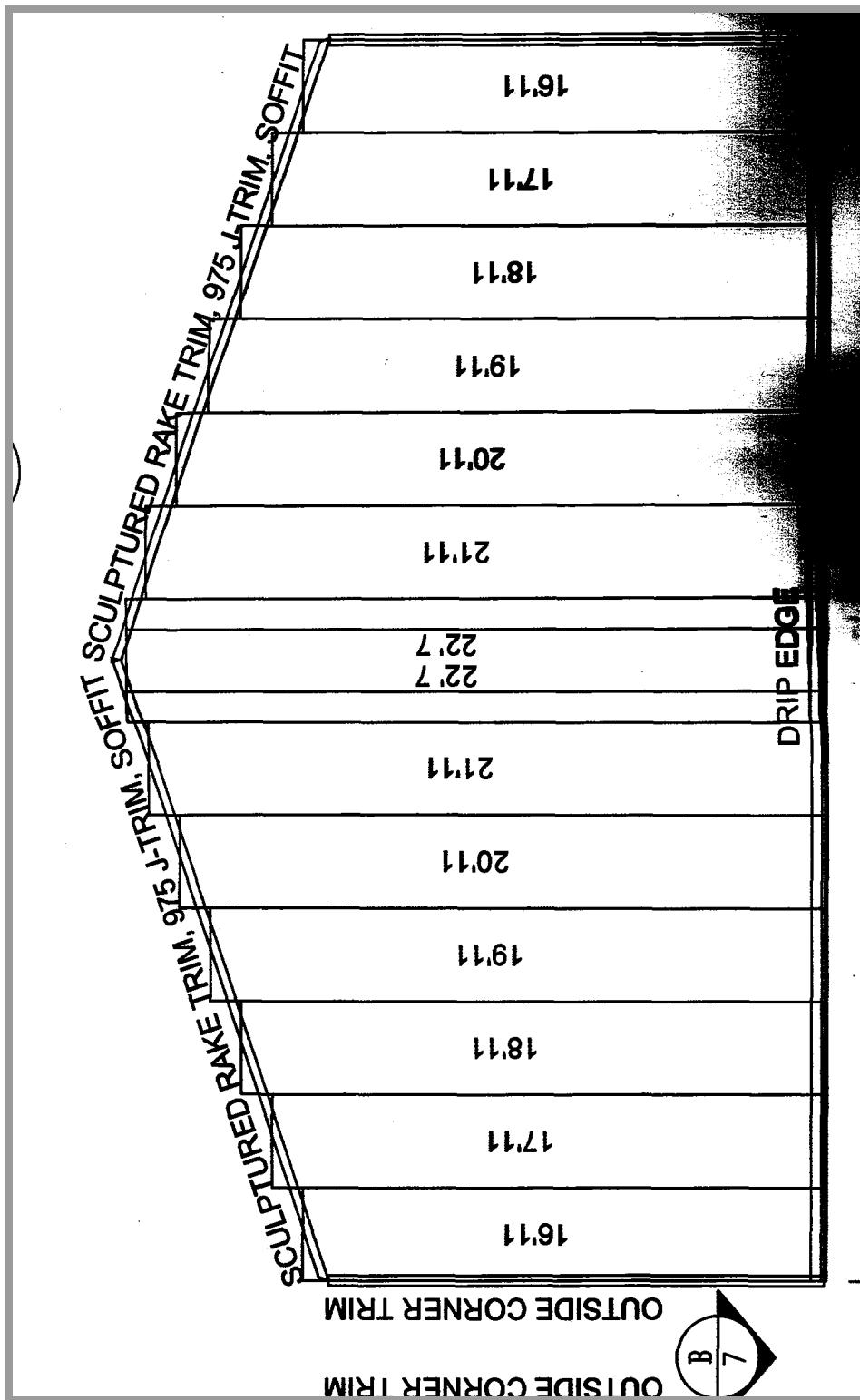
4) Whether the proposed variance will have an adverse effect or impact on the physical or environmental conditions in the neighborhood or district; and

The variance will not have a negative impact however without issuing the variance we would cause negative impact to the septic system or house drainage system.

5) Whether the alleged difficulty was self-created, which consideration shall be relevant to the decision of the Zoning Board of Appeals, but shall not necessarily preclude the granting of the area variance:

This was not self created as the house, septic system and drainage system were existing prior to purchase of the house. This location is the best selection based on elevation and proximity to the residence.







# Kyle J. Bisnett

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6792 Westfall Road, Altamont, New York 12009 | [kbisnett@gmail.com](mailto:kbisnett@gmail.com) | 518.378.5312

**03/28/2021**

Town of Guilderland/Zoning Administrator

ATTN: Zoning Administrator

PO BOX 339

Guilderland, NY 12084 | 518.356.1980

Dear Town of Guilderland/Zoning Administrator:

We have applied for a Building Permit to construct a 40x60x16 red iron/steel building for storage of residential equipment and vehicles. This building has been ordered from Essex Steel in Cortland, NY with engineered plans and the foundation has been engineered as well.

A variance for a front-yard location is being requested due to the location of the existing cleared land proximate to the house as depicted on the submitted plot plan/survey from the Guilderland GIS software.

**Consideration #1:**

While facing the front of the house from the driveway, on the left side/behind the house is an existing 1,400 GA septic system and leech field which would make passing traffic of vehicles or equipment impossible without damaging the existing tank and/or leech field which could cause concerns of repairs, sewage leakage, and/or issues with continual maintenance such as septic pumps outs, etc.

**Consideration #2:**

While facing the front of the house from the driveway, to the right side/behind the house, existing drainage is present for the French drain system around the house, it is also very close to the neighbor's tree line property. In the proposed bldg. location - this is covered by the front tree line while granting 150 ft. from the road and more than double the amount required for the neighbor bordering property at 37 ft.

Additionally - the proposed location is already elevated thanks to the natural grade, which allows the foundation to stay dry and allows us to stay clear of existing drainage systems. It is in a safe location proximate to the house for walks from the proposed building to the house during dark hours to ensure our family can walk a well-lit path safely.

I appreciate the consideration & thank you so much!

Kyle J. Bisnett  
Altamont, New York 12009  
518.378.5312



**TOWN OF GUILDERLAND  
PUBLIC NOTICE OF HEARING BEFORE  
ZONING BOARD OF APPEALS**

Notice is hereby given that the Zoning Board of Appeals of the Town of Guilderland, New York, will hold a public hearing pursuant to Articles IV & V of the Zoning Law on the following proposition:

Variance Request No. 4826


Request of Kyle Bisnett for a Variance of the regulations under the Zoning Law to permit: the construction of a storage building (1) in a front yard and (2) exceeding 15ft in height.

Per Articles IV & V Sections 280-24 and 280-51 respectively

For property owned by Kyle Bisnett  
Situated as follows: 6792 Westfall Road Altamont, NY 12009  
Tax Map # 25.00-2-1 Zoned: RA5

Due to COVID-19 gathering restrictions, plans are only available for public inspection on the Town website at <https://www.townofguilderland.org/zoning-board-appeals>. Said hearing will take place on the 21<sup>st</sup> of April, 2021 at 7:00pm. Members of the public may listen to and view the meeting live on Verizon channel 34 and Spectrum channel 1303, on the Town website, and may dial 1-929-205-6099 for meeting id 840 3829 2241 using passcode 486698 to participate in the public comment period.

Dated: April 15, 2021

  
\_\_\_\_\_  
Jacqueline M. Coons  
Chief Building & Zoning Inspector

SWIS	PRINT KEY	NAME	ADDRESS	PAGE # 1
013089	24.00-1-41	Clifford Carlone	404 Settles Hill Rd,Altamont, NY 12009	
013089	24.00-1-42	Erika E Lawson	6807 Westfall Rd,Altamont, NY 12009	
013089	24.00-1-43.1	Michael A Nardolillo Jr	6791 Westfall Rd,Altamont, NY 12009	
013089	24.00-1-43.2	James A Oppelt	6787 Westfall Rd,Altamont, NY 12009	
013089	25.00-2-1	Kyle J Bisnett	6792 Westfall Rd,Altamont, NY 12009	
013089	25.00-2-2	Loretta Bonafide	382 Settles Hill Rd,Altamont, NY 12009	
013089	25.00-2-36	Fred J Bush	6786 Westfall Rd,Altamont, NY 12009	
013089	25.00-2-37	Thomas E Hanrahan	6776 Westfall Rd,Altamont, NY 12009	

4768  
**TOWN OF GUILDERLAND  
 CHECKLIST FOR SPECIAL USE PERMIT**

**RETURN TO:**  
 ZONING ADMINISTRATOR  
 PO BOX 339  
 GUILDERLAND, NY 12084  
 (518) 356-1980

**FEES:**  
 COMMERCIAL - \$300 # 1957  
 RESIDENTIAL - \$75  
 (payable at time of submittal  
 to Town of Guilderland)

**APPLICANT INFORMATION:**

Name: MICHAEL J. DAHLGREN  
 Address: 42 SWASTIC LANE  
ALFAMONT NY Zip: \_\_\_\_\_  
 Daytime Phone #: 509 366-1315  
 Date: 10/29/19

**PROPERTY INFORMATION:**

Owner: MICHAEL J. DAHLGREN  
 Location: 67-99 WEST W.D.R.  
 Tax Map #: 39.00-2-103  
 Zoning: LB  
 Acreage: 1.82

**TO BE SUBMITTED:**

1. 12 copies of application form ✓
2. 12 copies of SEQRA form ✓
3. ~~Copy of conditional purchase contract or rental agreement if applicable~~
4. 12 copies of the project narrative containing the following: detailed description of the use, hours of operation, # of employees, type of deliveries, etc. ✓
5. 12 copies of plat plan FOLDED which should include: side, front and rear setbacks, all existing buildings, location of proposed construction, total size of parcel, elevations, parking layout, lighting layout, sidewalks and monuments, street and curb cuts, sanitary system and water course, drainage system, delineated wetlands, planting and green area plans including fencing/buffer area boundaries. ✓

**OTHER AGENCY APPROVALS AS REQUIRED:**

1. Town Water and Wastewater Management – 456-6474
2. Town Highway Department – 861-5108
3. NYS Department of Transportation – 765-2841
4. Albany County Health Department – 447-4631
5. Albany County Planning Board – 447-5660
6. NYS DEC Region IV – 357-2044
7. Pine Bush Commission – 464-6496

APPLICATION AND APPEAL TO THE ZONING BOARD OF APPEALS  
FOR A VARIANCE, SPECIAL USE PERMIT OR AN INTERPRETATION  
OF THE ZONING ORDINANCE OR ZONING MAP

To Zoning Administrative Officer  
Of the Town of Guilderland

Date: 10/29/19

To the Zoning Board of Appeals  
Of the Town of Guilderland

I, MILHAEL J DAVIDSON of 425 WEST LANE, HATTIMONT NY  
hereby appeal from the decision of the Zoning Administration Officer on my application for  
zoning permit and hereby apply to the Zoning Board of Appeals for:

- An interpretation of the Zoning Ordinance or Zoning Map
- A Special Use Permit under the Zoning Ordinance or Zoning Map
- A Variance to the Zoning Ordinance or Zoning Map

1. Location of property,  
Address (97-99) WEST WEST DRIVE Zoning: LB

LOCAL MIXED-USE BUILDING:

I AM SEEKING SITE APPROVAL AND APPROVAL  
OF BUILDING PLANS FOR A COMMERCIAL TRI-FLX  
MAIN FLOOR WITH APARTMENT AND OFFICE UPPER FLOOR.

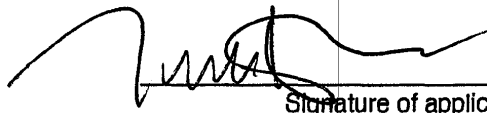
3. Special Use Permit required for the following type of use:

PROPOSED SITE PLAN IS FOR DENTAL OFFICE,  
RETAIL SPACE AND RESTAURANT, MAIN FLOOR AND  
APARTMENT AND LAW OFFICE UPPER FLOOR.

\* 4. Variance to the Zoning Ordinance is requested for:

\* Applicant shall complete form outlining conditions from Section 267-b of New York  
State Town Law pertaining to area variances.

The applicant hereby certifies that he is the owner of record of the above property or has  
been duly authorized in writing by the owner of record to make this application.



Signature of applicant

504 366-1325

MILHAEL J DAVIDSON

## Short Environmental Assessment Form Part 1 - Project Information

**Instructions for Completing**

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

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

<b>Part 1 – Project and Sponsor Information</b>			
Name of Action or Project: <b>SPRINGS PLAZA (COMMERCIAL/RESIDENTIAL COMPLEX)</b>			
Project Location (describe, and attach a location map): <b>(97-99) TWENTY WEST DRIVE, GUILDFORD, NEW YORK</b>			
Brief Description of Proposed Action: <b>COMMERCIAL TRI-PLEX INCLUDING 3 FLOOR DENTAL OFFICE, ONE FLOOR MANICURE/PEDICURE SPA, ONE FLOOR RESTAURANT WITH COUNTRY AND INDO ROOFTOP DINING, 2ND FLOOR APARTMENT, 2ND FLOOR LAW OFFICE.</b>			
Name of Applicant or Sponsor: <b>MICHAEL J DAVIDSON</b>		Telephone: <b>509 366-1325</b>	E-Mail: <b>MICHAEL@DAVIDSONLAWCENTER.NET</b>
Address: <b>42 SWEETIE LANE ATAMONT, NEW YORK</b>			
City/PO: <b>ATAMONT</b>	State: <b>NEW YORK</b>	Zip Code:	
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.		NO <input type="checkbox"/>	YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval:		NO <input type="checkbox"/>	YES <input type="checkbox"/>
3. a. Total acreage of the site of the proposed action?		<u>1.82</u> acres	
b. Total acreage to be physically disturbed?		_____ acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		<u>1.82</u> acres	
4. Check all land uses that occur on, are adjoining or near the proposed action:			
5. <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban)			
<input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify):			
<input type="checkbox"/> Parkland			

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?	NO	YES	
If Yes, identify: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Are public transportation services available at or near the site of the proposed action?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements?	NO	YES	
If the proposed action will exceed requirements, describe design features and technologies: _____ _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply?	NO	YES	
If No, describe method for providing potable water: _____ _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities?	NO	YES	
If No, describe method for providing wastewater treatment: _____ _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	NO	YES	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____			

*per Dec matter*

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

Shoreline  Forest  Agricultural/grasslands  Early mid-successional  
 Wetland  Urban  Suburban

15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? NO YES

16. Is the project site located in the 100-year flood plan? NO YES

17. Will the proposed action create storm water discharge, either from point or non-point sources?  
 If Yes,

a. Will storm water discharges flow to adjacent properties? NO YES

b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? NO YES

If Yes, briefly describe:  
STORM DRAIN SYSTEM EXISTS NORTH TO SOUTH DIRECTLY EAST OF LOT ALONG TWENTY WEST DRIVE

18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? NO YES

If Yes, explain the purpose and size of the impoundment: AN 8 FOOT WIDE BY 3 FOOT DEEP DRAINAGE SWALE WITH 10 INCH STORM DRAIN RUNS EAST TO WEST ON SOUTH SIDE OF LOT

19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? NO YES

If Yes, describe: \_\_\_\_\_

20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? NO YES

If Yes, describe: \_\_\_\_\_

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

Applicant/sponsor/name: MICHAEL J DAVIDSON Date: 10/29/19

Signature: [Signature] Title: OWNER

**PRINT FORM**

Agency Use Only [If applicable]

Project: \_\_\_\_\_  
 Date: \_\_\_\_\_

*Short Environmental Assessment Form  
 Part 2 - Impact Assessment*

**Part 2 is to be completed by the Lead Agency.**

Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>
2. Will the proposed action result in a change in the use or intensity of use of land?	<input type="checkbox"/>	<input type="checkbox"/>
3. Will the proposed action impair the character or quality of the existing community?	<input type="checkbox"/>	<input type="checkbox"/>
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	<input type="checkbox"/>	<input type="checkbox"/>
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will the proposed action impact existing:		
a. public / private water supplies?	<input type="checkbox"/>	<input type="checkbox"/>
b. public / private wastewater treatment utilities?	<input type="checkbox"/>	<input type="checkbox"/>
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	<input type="checkbox"/>	<input type="checkbox"/>
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	<input type="checkbox"/>	<input type="checkbox"/>
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	<input type="checkbox"/>	<input type="checkbox"/>
11. Will the proposed action create a hazard to environmental resources or human health?	<input type="checkbox"/>	<input type="checkbox"/>

**PRINT FORM**

Project: \_\_\_\_\_  
 Date: \_\_\_\_\_

**Short Environmental Assessment Form  
 Part 3 Determination of Significance**

For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.
<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.
_____	_____
Name of Lead Agency	Date
_____	_____
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
_____	_____
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

**PRINT FORM**

PROJECT NARRATIVE

Description of Proposed Construction Site Plan

The site is 1.82 Acres fronting Western Turnpike on the corner of Twenty West Drive, directly across from the Guilderland Town Hall, with ingress/egress from Twenty West, per the proposed site plan. While the site is 1.82 acres, the actual disturbed portion of the site is approximately 1 acre, taking into consideration front, back and side set-offs which will all be undisturbed. Proposed construction features the retention for aesthetic purposes of a magnificent mature spruce tree located toward the Northeast portion of the property and hence the project name, "Spruce Plaza".

The plaza complex will include a proposed dental office with basement and 2 floors above existing grade occupying the Eastern end of the complex (anchor tenant), ~~a proposed manicure/pedicure day spa occupying the middle unit on the first floor of the complex,~~ and a proposed upscale restaurant occupying the first floor of the Western end of the complex with both courtyard and rooftop dining. The second floor middle units of the complex will be a small law office and a small residential apartment.

Landscaping

The North side of the complex fronting Western Turnpike will retain the natural existing grass within the front set-off with six sections of 2 feet tall by twenty feet long split rail fence with low profile wildflowers on both sides of each section of split rail fence. Each post of the split rail fence would feature a low E light casting light down to the ground on either side of the fence. There will also be 9 dwarf Scotch pine trees spaced between the sections of split rail fence, as depicted on the proposed site plan, parallel to Western Turnpike. The large Spruce tree located on the North East side of the property will be retained as the signature landmark of the site, (Spruce Plaza). If allowed and subject to site plan approval, each of the 9 Scotch pines will feature Low E Christmas tree type lighting and the signature Spruce would similarly be lighted with Low E lighting similar to trees which are festively lighted at the entrance to Stuyvesant Plaza,

A commercial grade 6 foot cedar fence will be located in the Southwest corner of the site, as indicated on the proposed site plan. Each fence post would feature a Low E light casting light down to the ground in front of the fence. 13 dwarf Scotch pines will be located along the South side of the property just to the South of the designated parking spaces located to the South of the proposed building complex. The landscaping within the 40 foot set-off on the South side of the site will be grass similar to the North side of the site with wild flowers planted in a manner similar to wildflowers on the North side of the site. A 6 foot wide by 3 foot deep drainage swale will be located on the South side of the property with a 10 inch drainage pipe located in the bottom of the drainage swale and connected to the existing development storm drainage which presently runs North to South on the Western side of Twenty West Drive.

There is also an existing Twenty West Residential Development Sign /Monument which may remain on the site along with landscaped trees and shrubs, subject to a negotiated maintenance agreement with the existing Twenty West Homeowners Association. A commercial grade Plaza lighted sign approximately 3 to four feet tall and 10 to 15 feet long would be placed perpendicular to Western Turnpike 10 feet South of the existing sidewalk and directly North of the split rail fencing where the site plan specifies 25' Set Back. The sign would be lighted with Low E lighting and would be designed to be visible for drive-by traffic from both East and West along Western Turnpike.

#### Lighting Plan

In addition to the site lighting specified above under landscaping, the building would have Low E two way spot lighting located on each corner of the building just above the first floor to light each corner of the parking lot. The lighting would be cast at a downward angle to avoid nuisance light infiltration to adjacent properties. The perimeter light post lighting and tree lighting, all Low E is intended to provide parking lot and perimeter security lighting. Also each door located on both the North and South side of the building would feature a sconce light to the right of each single door and on either side of each double door. A string of Low E commercial grade Christmas light type lighting with bulbs 40 watts or less would Crisscross approximately 10 to 12feet above both the restaurant outside courtyard dining area and also 10 to 12 feet above the restaurant rooftop dining area. All exterior lights would be either halogen Low E lighting or low wattage lighting in keeping with energy conservation standards which may apply.

#### Storm-water Management Plan

Storm-water management is as designated on the site plan with a series of 10 storm drain grates located strategically in the site parking lot with parking lot slope and grade designed to cause storm-water and building roof run-off to flow to the various parking lot grates. Also, running parallel to the South side of the lot within the 40 foot set-off there is a 6 foot wide by 3 foot deep drainage swale with 10 inch storm drain piping at the bottom of the swale which is sloped at a grade West to East which is designed and engineered to drain into existing storm drainage on the West side of Twenty West Drive, which currently captures storm-water drainage for the Twenty West Residential Development, including the subject site which is part of the development

#### Property Use

The property is intended to be used as a mixed use professional and retail complex with one small residential apartment. The anchor tenant will be Dr. Alina Dellanzo, a dentist who has practiced locally for several years at 4 Executive Park Drive located directly behind

Stuyvesant Plaza. Dr. Dellanzos' husband, Michael Davidson has been a trial lawyer in the State of Washington for 37 years and he has recently been admitted to practice law here in New York. His law office will be located on the second floor of the complex. Dr. Dellanzo and her husband will occupy the apartment located on the second floor of the complex. ~~A committed tenant, presently desiring to remain anonymous, intends to operate a manicure/pedicure business located in the middle suite on the first floor of the complex.~~ Dr. Dellanzos' Father, Vlad Savu, an experienced restaurateur, has expressed an interest in opening an upscale restaurant featuring Eastern European cuisine at the Western end of the complex. The restaurant space may otherwise be leased to interested 3<sup>rd</sup> party investors.

#### Hours of operation

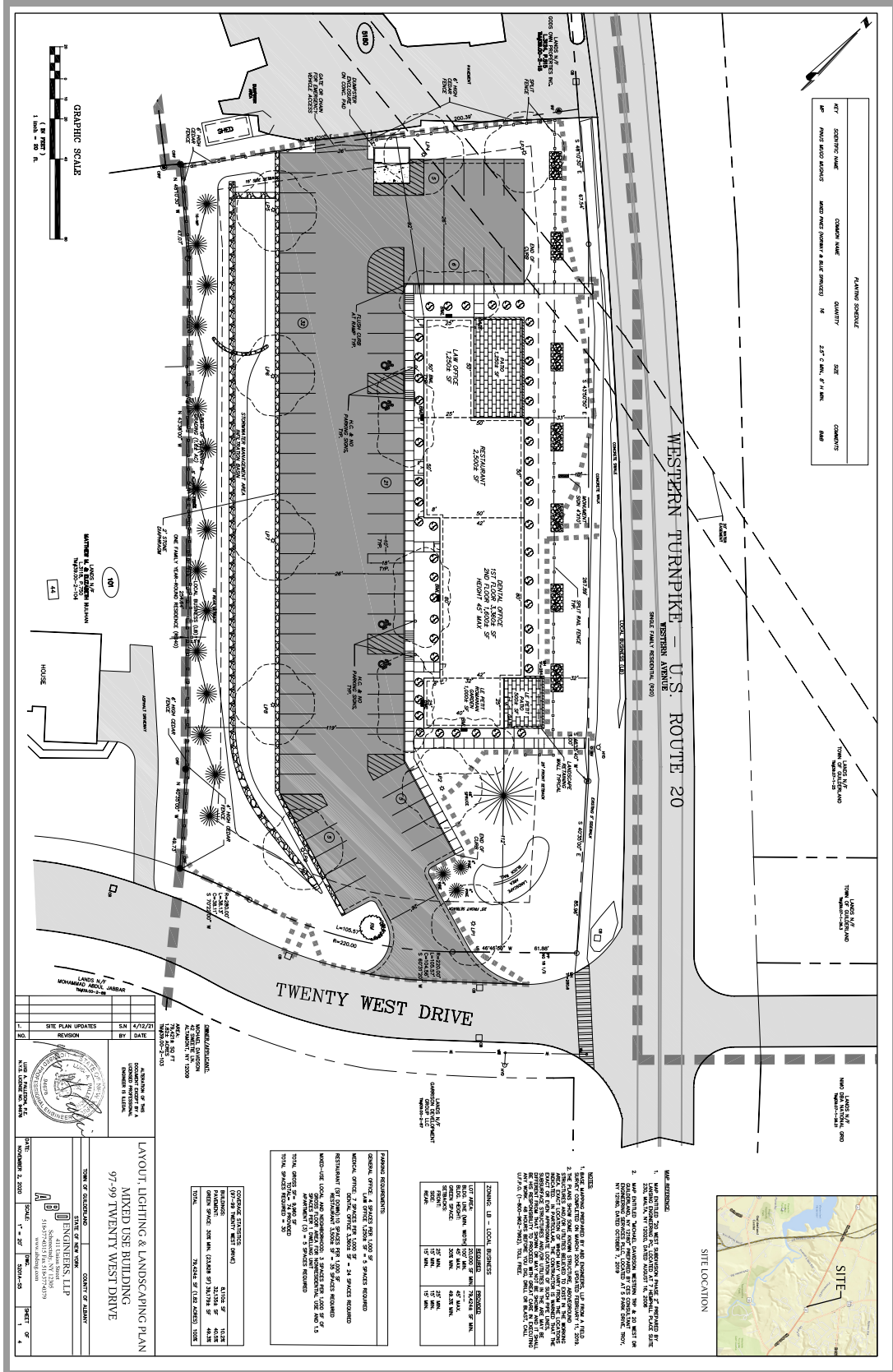
Hours of operation would vary depending on the business but for the law office and dental office ~~and manicure/pedicure business~~ likely Monday through Friday or Saturday 7 or 8 AM through 7 or 8 PM. The restaurant hours would vary depending on business but likely Monday through Thursday 11 AM through Midnight or earlier and Friday and Saturday 8 AM through 2AM and Sunday 8AM through Midnight or earlier. Restaurant hours may vary depending on business flow.

#### Number of Employees

Number of employees for dental office would likely be 10 to 15 or less, ~~for manicure/pedicure 8 to 10 or less.~~ for law office 3 to 4 or less, for restaurant 25 to 30 or less with 10 to 12 per shift.

#### Type of Deliveries

Deliveries would be typical mail and supplies for the dental office, law office and manicure/pedicure business including typical UPS or Fed Ex for materials and supplies. For the Restaurant, typical Beer and Wine deliveries are twice weekly and food is 2 or 3 times weekly depending on supplier. All trucks would be typical single trailer commercial urban delivery trucks or van type trucks, all easily accessible to and from the proposed site.



REV	DATE	DESCRIPTION	BY	DATE
1	04/12/12	AS SHOWN	SM	4/12/12
2	04/12/12	REVISED PER COMMENTS	SM	4/12/12

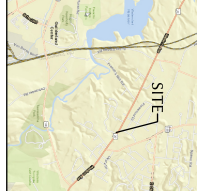
NO.	REVISION	BY	DATE
1	SITE PLAN UPDATES	SM	4/12/12
2	REVISED PER COMMENTS	SM	4/12/12

**LANDSCAPING & LIGHTING PLAN**  
**MIXED USE BUILDING**  
**97-99 TWENTY WEST DRIVE**  
 TOWN OF GARDENBURG, STATE OF NEW YORK  
 COUNTY OF ALBANY  
**ENGINEERS, LLP**  
 150 WEST 42ND STREET, SUITE 1000  
 NEW YORK, NY 10018  
 (212) 692-4000  
 www.engineersllp.com

**PERMITS REQUIRED:**

- CONSTRUCTION PERMIT
- LANDSCAPING PERMIT
- LANDING PERMIT
- LANDING PERMIT
- LANDING PERMIT

TYPE	AMOUNT	REMARKS
OFFICE	12,000 SQ. FT.	OFFICE SPACE
RESTAURANT	2,300 SQ. FT.	RESTAURANT SPACE
TOTAL	14,300 SQ. FT.	TOTAL FLOOR AREA









**STORMWATER MANAGEMENT REPORT**

FOR

MIXED USE BUILDING  
97-99 Twenty West Drive  
Town of Guilderland  
Albany County, New York

Prepared For:

Michael Davidson  
42 Sweetie Lane  
Altamont, NY 12009

April 9, 2021

Project No. 5201A

Prepared By:

Luigi A. Palleshi, P.E.  
ABD Engineers, LLP  
411 Union Street  
Schenectady, NY 12305  
(518) 377-0315

**STORMWATER MANAGEMENT REPORT**

MIXED USE BUILDING  
97-99 Twenty West Drive  
Town of Guilderland  
Albany County, New York

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EXHIBIT 3: POST-DEVELOPMENT DRAINAGE MAP .....	Attached
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## **STORMWATER MANAGEMENT REPORT**

MIXED USE BUILDING  
97-99 Twenty West Drive  
Town of Guilderland  
Albany County, New York

### **PROJECT LOCATION**

The proposed mixed use building is located at 97-99 Twenty West Drive in the Town of Guilderland, Albany County, New York (see Exhibit 1). The site is bordered on the north by Western Turnpike (Route 20), on the east by Twenty West Drive, on the south by a residential house, and on the west by a restaurant.

### **GENERAL SITE DEVELOPMENT**

The applicant is proposing to redevelop the existing 1.8± acre parcel in order to construct one (1) mixed use building with associated pavement, utilities, and stormwater management practice for water quality treatment utilizing runoff reduction. Access to the site will be provided off of Twenty West Drive via a new driveway and emergency cross access will also be provided to the adjacent restaurant lot to the west.

### **SOIL TYPES, GROUNDWATER & TOPOGRAPHY**

According to the Albany County NRCS, the primary hydrologic soil group is Type A loamy fine sand. The soils are generally well drained with a high-water table depth approximately 5 feet below existing grade. The existing site has a central high point and drains southeast toward Twenty West Drive, north toward Route 20, and west offsite.

### **STORMWATER MANAGEMENT PLAN**

The stormwater management plan for the proposed project will utilize surface sheet flow across pavement across the site for conveyance to the infiltration basin. Stormwater runoff in the front of the site will continue to drain towards Route 20 as in the pre-development condition.

An infiltration basin practice will be utilized to achieve water quality volume (WQv) and runoff reduction volume (RRv) per NYSDEC Phase 2 Stormwater Regulations. The total water quality treatment volume (WQv) required is 3,536± cubic feet and the minimum Runoff Reduction Volume (RRv) required is 1,888± cubic feet. The entire WQv of 3,536± cubic feet is provided via RRv which meets the treatment requirements. Refer to the WQv and RRv calculations in Appendix A.

#### ANALYSIS

HydroCAD was utilized for the stormwater analysis. Stormwater calculations for the pre and post-development conditions are presented in Appendix A.

In the **pre-development condition**, the existing site consists of two drainage areas totaling 1.86± acres (refer to Exhibit 2).

**Pre Area 1A** is 0.79± acres and consists of existing gravel and grass areas. An area weighted CN value of 48 is used for the calculation. Runoff drains west offsite. The peak discharge rates for the 1, 10, and 100-year storm events are 0.00± cfs, 0.23± cfs, and 0.88± cfs respectively.

**Pre Area 1B** is 0.66± acres and consists of existing gravel and grass areas. An area weighted CN value of 52 is used for the calculation. Runoff drains south to Twenty West Drive. The peak discharge rates for the 1, 10, and 100-year storm events are 0.00± cfs, 0.50± cfs, and 1.34± cfs respectively

**Pre Area 2** is 0.41± acres and consists of existing concrete, gravel, and grass areas. An area weighted CN value of 47 is used for the calculation. Runoff drains north to Route 20. The peak runoff rates for the 1, 10, and 100-year storm events are 0.00± cfs, 0.13± cfs, and 0.55± cfs respectively.

In the **post-development condition**, there are two drainage areas as in the pre-development condition (refer to Exhibit 3).

**Post Area 1A** is 1.42± acres and consists of proposed rooftop, pavement, and grass areas. An area weighted CN value of 77 is used for the calculation. Runoff is conveyed to the infiltration basin. The peak runoff rates generated for the 1, 10 and 100-year storm events are 1.86± cfs, 3.17± cfs, and 5.37± cfs respectively. A stone-lined underdrain system is provided within the bottom of the basin which outlets to the existing

Twenty West Drive system. The peak discharge rates for the 1, 10 and 100-year storm events are reduced to 0.00± cfs, 0.19± cfs, and 0.26± cfs respectively. An emergency overflow spillway is provided in the event of a storm event exceeding the 100-year event.

**Post Area 1B** is reduced to 0.20± acres and consists of a portion of asphalt pavement and grass areas. An area weighted CN value of 46 is used for the calculation. Runoff flows to Twenty West Drive as in the pre-development condition. The peak discharge rates for the 1, 10 and 100-year storm events are 0.00± cfs, 0.05± cfs, and 0.25± cfs respectively.

**Post Area 2** is reduced to 0.23± acres and consists of existing concrete sidewalk, a portion of proposed sidewalk, and grass areas. An area weighted CN value of 47 is used for the calculation. Runoff drains north to Route 20 as in the pre-development condition. The peak runoff rates for the 1, 10, and 100-year storm events are 0.00± cfs, 0.08± cfs, and 0.32± cfs respectively.

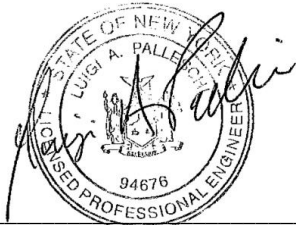
**SUMMARY**

After performing the HydroCAD analysis, the results are summarized as follows:

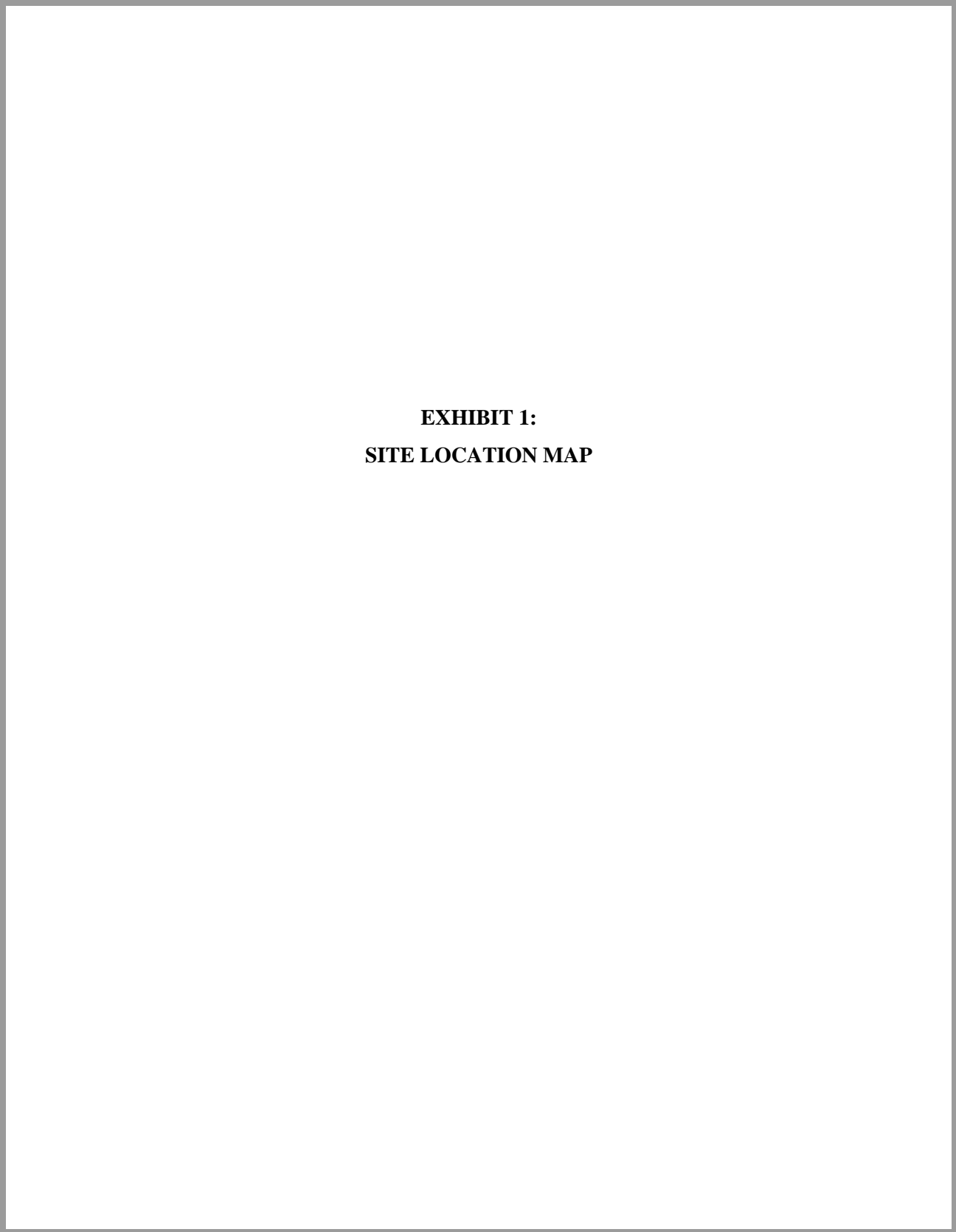
Area 1	Peak Runoff Generated (cfs)			Peak Discharge (cfs)		
	1-Year	10-Year	100-Year	1-Year	10-Year	100-Year
Pre 1A	0.00	0.23	0.88	0.00	0.23	0.88
Pre 1B	0.00	0.50	1.34	0.00	0.50	1.34
<b>Total Pre</b>	<b>0.00</b>	<b>0.73</b>	<b>2.22</b>	<b>0.00</b>	<b>0.73</b>	<b>2.22</b>
Post 1A	1.64	5.41	8.44	0.00	0.19	0.26
Post 1B	0.00	0.05	0.25	0.00	0.05	0.25
<b>Total Post</b>	<b>1.64</b>	<b>5.46</b>	<b>8.69</b>	<b>0.00</b>	<b>0.24</b>	<b>0.51</b>
<i>Net Change</i>	<i>1.64</i>	<i>4.73</i>	<i>6.47</i>	<i>0.00</i>	<i>-0.49</i>	<i>-1.71</i>

Area 2	Peak Runoff Generated (cfs)			Peak Discharge (cfs)		
	1-Year	10-Year	100-Year	1-Year	10-Year	100-Year
<b>Total Pre</b>	<b>0.00</b>	<b>0.13</b>	<b>0.55</b>	<b>0.00</b>	<b>0.13</b>	<b>0.55</b>
<b>Total Post</b>	<b>0.00</b>	<b>0.08</b>	<b>0.32</b>	<b>0.00</b>	<b>0.08</b>	<b>0.32</b>
<i>Net Change</i>	<i>0.00</i>	<i>-0.05</i>	<i>-0.23</i>	<i>0.00</i>	<i>-0.05</i>	<i>-0.23</i>

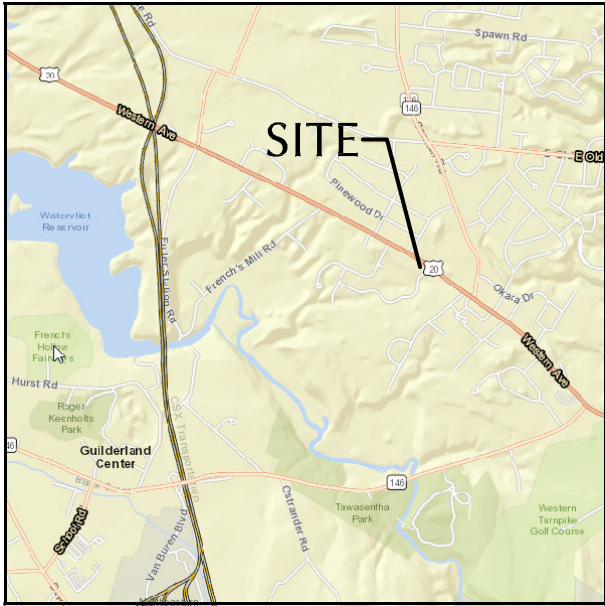
The peak discharge rates for the post-development condition are reduced to below the pre-development rates. The stormwater management plan is in accordance with the NYSDEC Stormwater Management Design Manual standards and will meet the needs of the project and the Town of Guilderland. The stormwater management plan will function adequately and will not adversely affect adjacent or downstream properties.

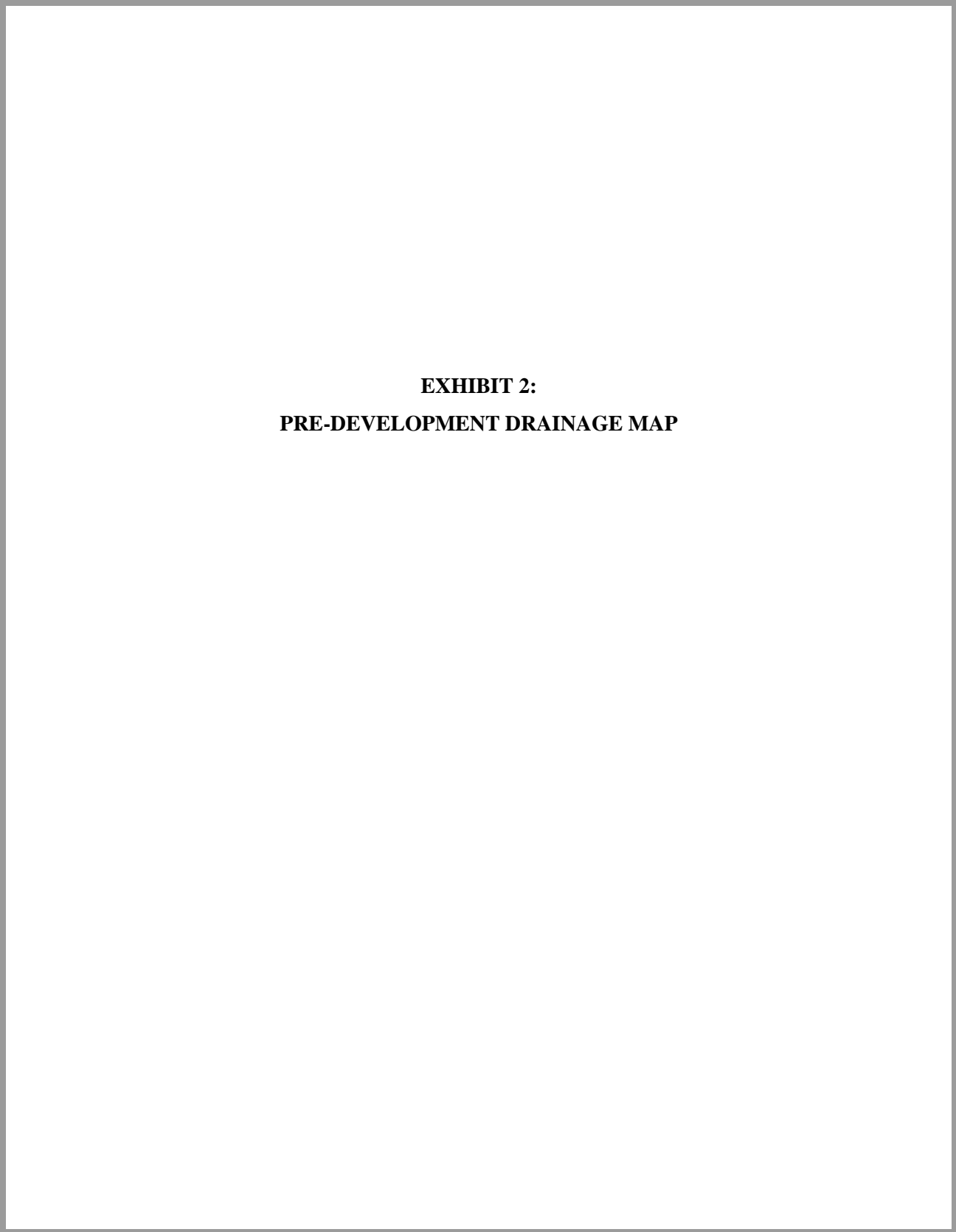


Luigi A. Palleschi, P.E.

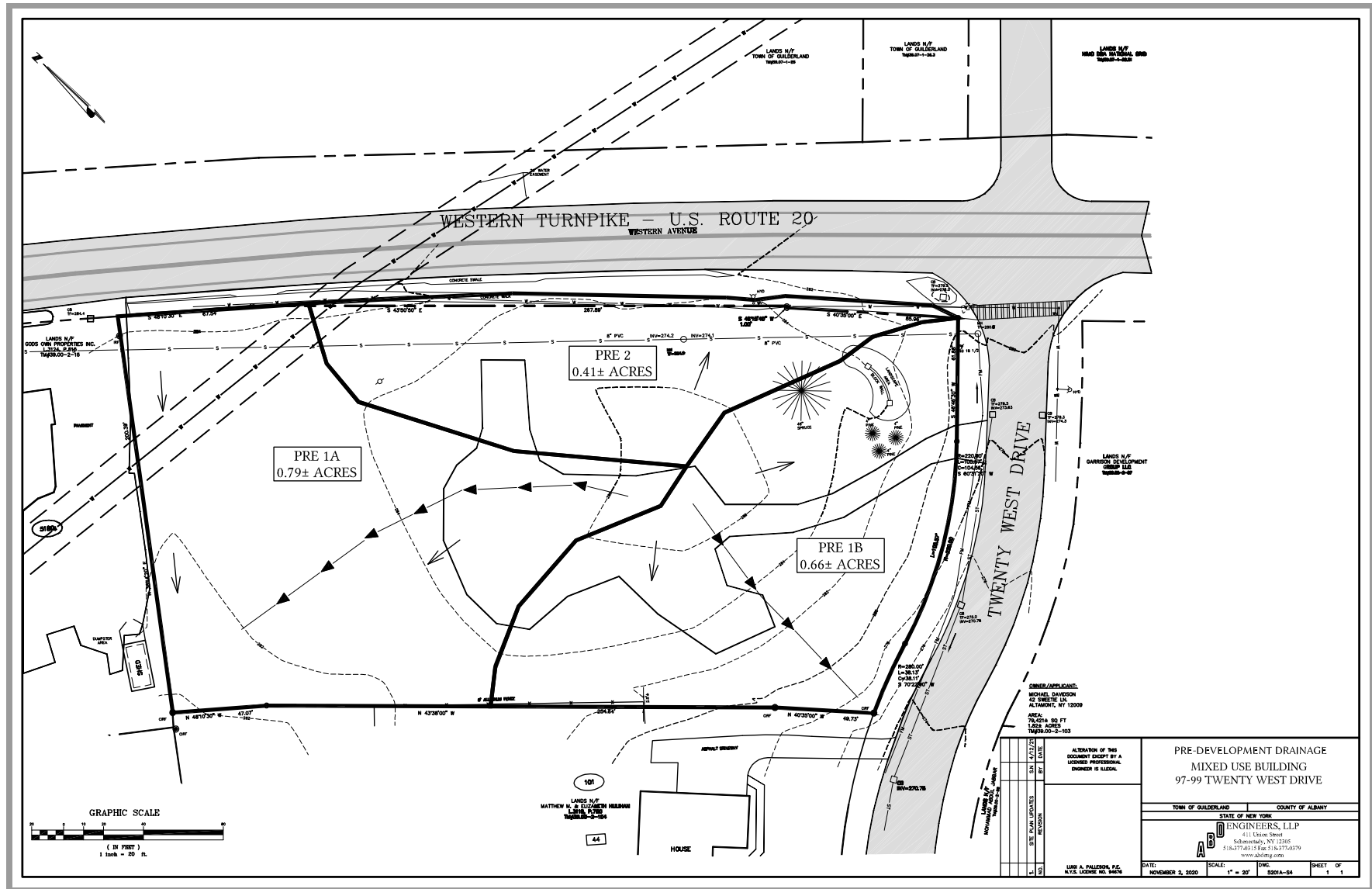


**EXHIBIT 1:  
SITE LOCATION MAP**



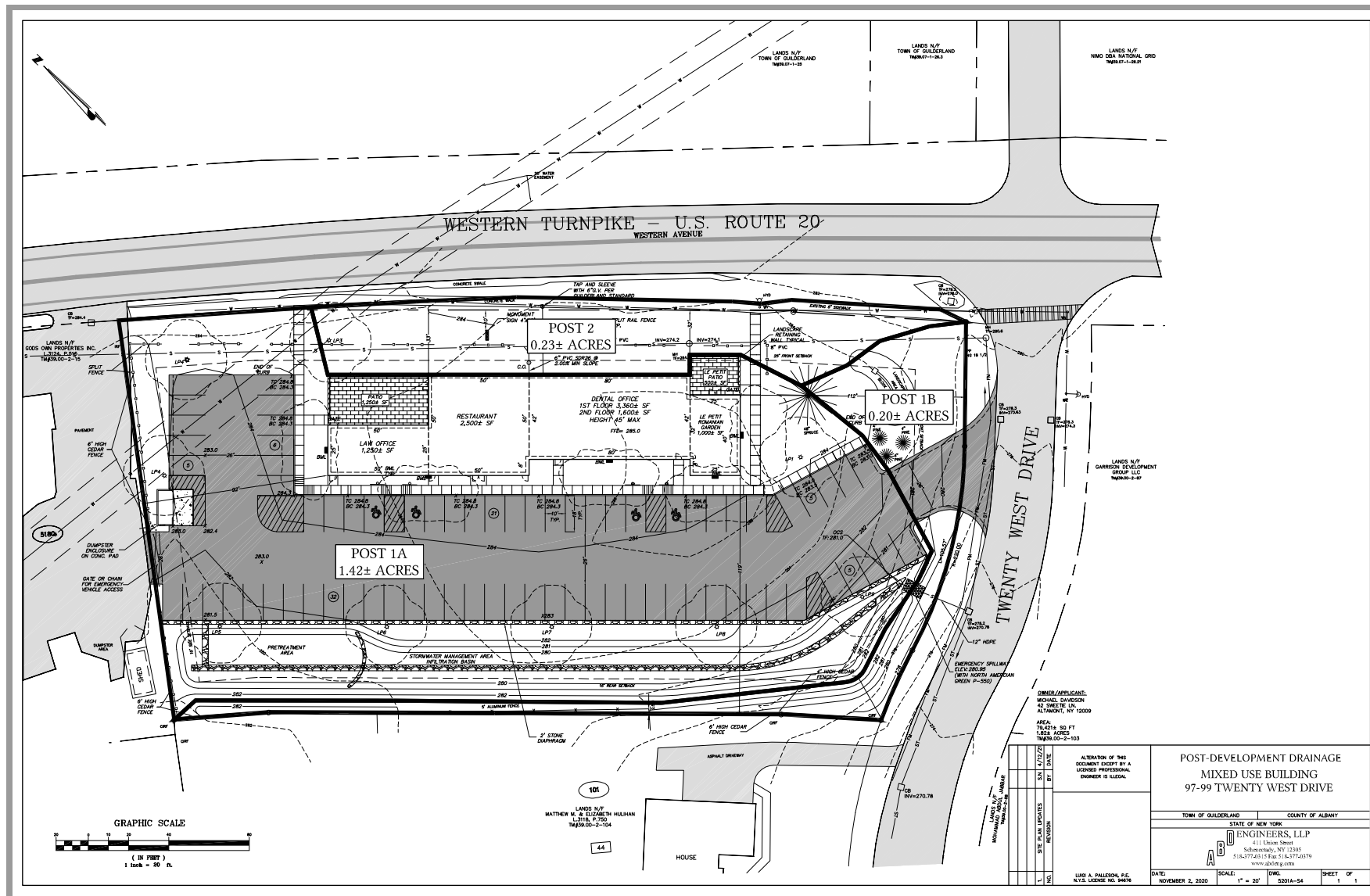


**EXHIBIT 2:  
PRE-DEVELOPMENT DRAINAGE MAP**





**EXHIBIT 3:  
POST-DEVELOPMENT DRAINAGE MAP**



OWNER/APPLICANT:  
MICHAEL SANDRON  
42 CHICHESTER LN.  
ALBANY, NY 12209

NO.	DATE	BY	DESCRIPTION
1.	11/2/20	AS	SITE PLAN REVISES RECORD

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS ILLEGAL.

**POST-DEVELOPMENT DRAINAGE  
MIXED USE BUILDING  
97-99 TWENTY WEST DRIVE**

TOWN OF GUILDERLAND COUNTY OF ALBANY

**ENGINEERS, LLP**  
411 Union Street  
Schenectady, NY 12308  
518-277-2813 Fax 518-277-0879  
www.abeng.com

DATE: NOVEMBER 2, 2020 SCALE: 1" = 20' TOWN: 5201A-54 SHEET OF 1

**APPENDIX A:  
STORMWATER CALCULATIONS**

Version 1.8

Total Water Quality Volume Calculation

Last Updated: 11/09/2015

$$WQv(\text{acre-feet}) = [(P)(Rv)(A)] / 12$$

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

Design Point: \_\_\_\_\_  
 P= 1.10 inch

Breakdown of Subcatchments						
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (ft <sup>3</sup> )	Description
1	1.42	0.91	64%	0.62	3,536	Infiltration Basin
2						
3						
4						
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	1.42	0.91	64%	0.62	3,536	Subtotal 1
<b>Total</b>	1.42	0.91	64%	0.62	<b>3,536</b>	<b>Initial WQv</b>

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

Recalculate WQv after application of Area Reduction Techniques					
	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Runoff Coefficient Rv	WQv (ft <sup>3</sup> )
"<<Initial WQv"	1.42	0.91	64%	0.62	3,536
Subtract Area	0.00	0.00			
WQv adjusted after Area Reductions	<b>1.42</b>	<b>0.91</b>	64%	0.62	3,536
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	1.42	0.91	64%	0.62	<b>3,536</b>
WQv reduced by Area Reduction techniques					0

### Minimum RRv

**Enter the Soils Data for the site**

Soil Group	Acres	S
A	1.42	55%
B		40%
C		30%
D		20%
Total Area	1.42	

**Calculate the Minimum RRv**

S =	0.55	
Impervious =	0.91	acre
Precipitation	1.1	in
Rv	0.95	
<b>Minimum RRv</b>	<b>1,888</b>	<b>ft3</b>
	0.04	af

### NOI QUESTIONS

#	NOI Question	Reported Value	
		cf	af
28	Total Water Quality Volume (WQv) Required	3536	0.081
30	Total RRV Provided	3536	0.081
31	Is RRV Provided $\geq$ WQv Required?	Yes	
32	Minimum RRV	1888	0.043
32a	Is RRV Provided $\geq$ Minimum RRV Required?	Yes	
33a	Total WQv Treated	0	0.000
34	Sum of Volume Reduced & Treated	3536	0.081
34	Sum of Volume Reduced and Treated	3536	0.081
35	Is Sum RRV Provided and WQv Provided $\geq$ WQv Required?	Yes	

Apply Peak Flow Attenuation			
36	Channel Protection	<i>Cpv</i>	
37	Overbank	<i>Qp</i>	
37	Extreme Flood Control	<i>Qf</i>	
	Are Quantity Control requirements met?		

### Infiltration Basin Worksheet

<b>Design Point:</b> <input style="width: 100px;" type="text"/>							
<b>Enter Site Data For Drainage Area to be Treated by Practice</b>							
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (ft <sup>3</sup> )	Precipitation (in)	Description
1	1.42	0.91	0.64	0.62	3535.80	1.10	Infiltration Basin
Enter Impervious Area Reduced by Disconnection of Practices			64%	0.62	3,536	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						ft <sup>3</sup>	
<b>Pretreatment Techniques to Prevent Clogging</b>							
Infiltration Rate			3.00	in/hour	Okay		
Pretreatment Sizing			50	% WQv	25% minimum; 50% if >2 in/hr 100% if >5in/hour		
Pretreatment Required Volume			1,768	ft <sup>3</sup>			
Pretreatment Provided			1,798	ft <sup>3</sup>			
Pretreatment Techniques utilized							
<b>Size An Infiltration Basin</b>							
Design Volume	3,536	ft <sup>3</sup>	WQv				
Basal Area Required	3,536	ft <sup>2</sup>	Infiltration practices shall be designed to exfiltrate the entire WQv through the floor of each practice.				
Basal Area Provided	3,950	ft <sup>2</sup>					
Design Depth	1.00	ft					
Volume Provided	3,950	ft <sup>3</sup>	Storage Volume provided in infiltration basin area (not including pretreatment).				
<b>Determine Runoff Reduction</b>							
RRv	3,536	ft <sup>3</sup>	90% of the storage provided in the basin or WQv whichever is smaller				
Volume Treated	0	ft <sup>3</sup>	This is the portion of the WQv that is not reduced/infiltrated				
Sizing v	OK		The infiltration basin must provide storage equal to or greater than the WQv of the contributing area.				



COMP BY TAG

SHEET 1 OF 1

CHECK BY

DATE 4/9/2021

PROJECT NAME & LOCATION Mixed Use Building – 97-99 Twenty West Drive

PROJ. NO. 5201A

SUBJECT Stormwater Pretreatment Volume

**Area 1A Pretreatment Volume Required (Per NYSDEC GI Worksheet):**

Total Area = 1.42 acres

Impervious Area = 0.91 acres

WQv = 3,536 ft<sup>3</sup>

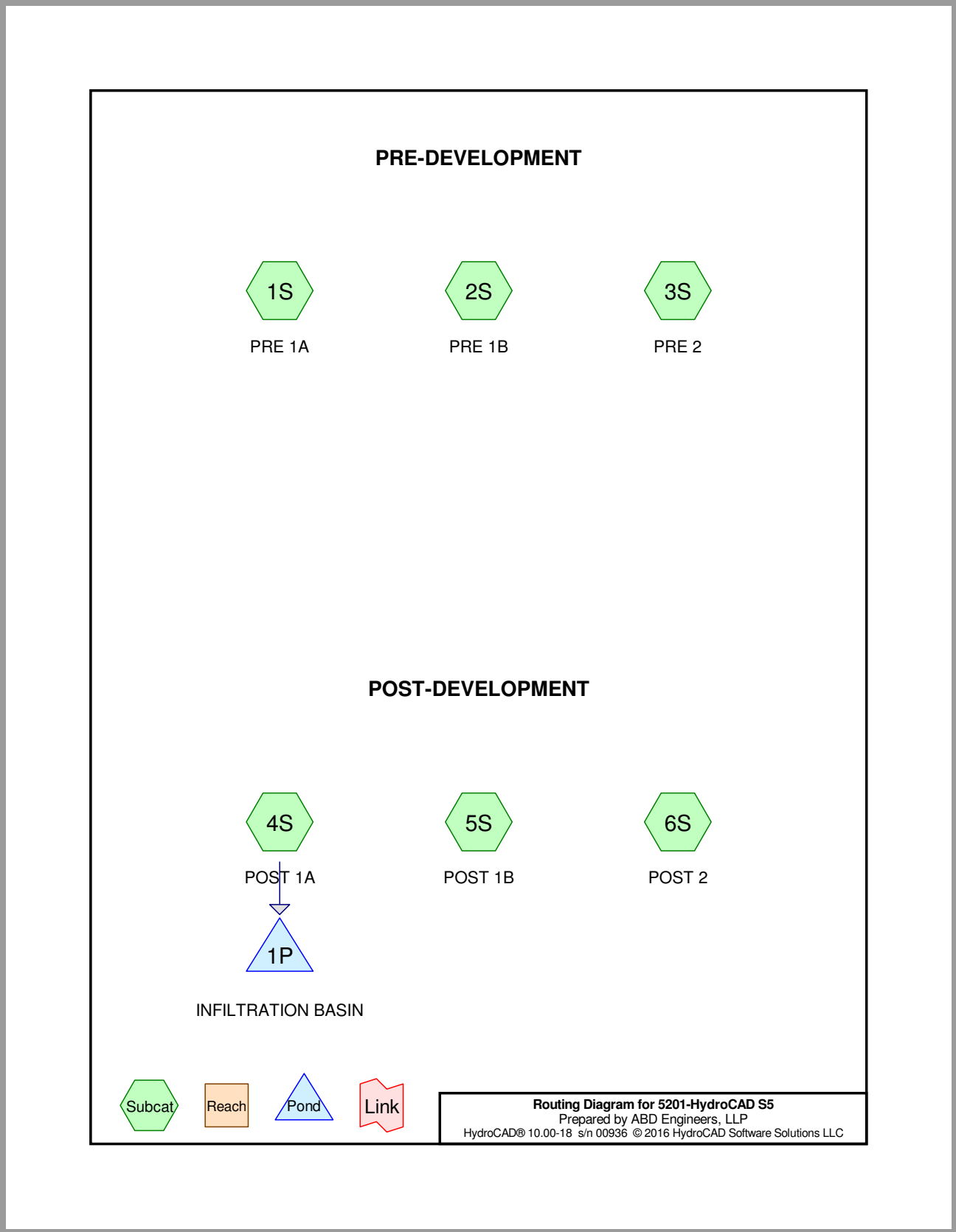
Pretreatment = 50% WQv = 1,768 ft<sup>3</sup>

**Area 1A Pretreatment Volume Provided:**

Pea Gravel Diaphragm = (780 ft<sup>2</sup>)(2 ft)(0.40) = 624 ft<sup>3</sup>

Forebay = (2,135 ft<sup>2</sup>)(0.55 ft) = 1,174 ft<sup>3</sup>

Total = (624 ft<sup>3</sup>) + (1,174 ft<sup>3</sup>) = 1,798 ft<sup>3</sup> > 1,768 ft<sup>3</sup> ∴ OK



**5201-HydroCAD S5**

Type II 24-hr 1-YEAR Rainfall=2.40"

Prepared by ABD Engineers, LLP

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Page 2

**Summary for Subcatchment 1S: PRE 1A**

Runoff = 0.00 cfs @ 23.99 hrs, Volume= 14 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-YEAR Rainfall=2.40"

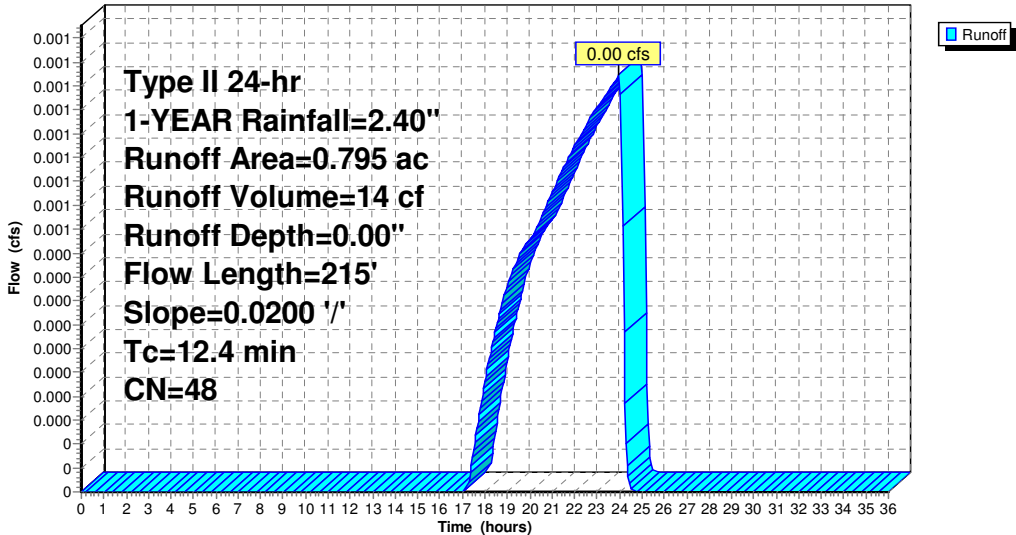
Area (ac)	CN	Description
0.119	96	Gravel surface, HSG A
0.676	39	>75% Grass cover, Good, HSG A
0.795	48	Weighted Average
0.795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	100	0.0200	0.16		Sheet Flow, Grass: Short n= 0.150 P2= 2.80"
1.9	115	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
12.4	215	Total			

**Subcatchment 1S: PRE 1A**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 1-YEAR Rainfall=2.40"

Prepared by ABD Engineers, LLP

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**Summary for Subcatchment 2S: PRE 1B**

Runoff = 0.00 cfs @ 17.58 hrs, Volume= 75 cf, Depth= 0.03"

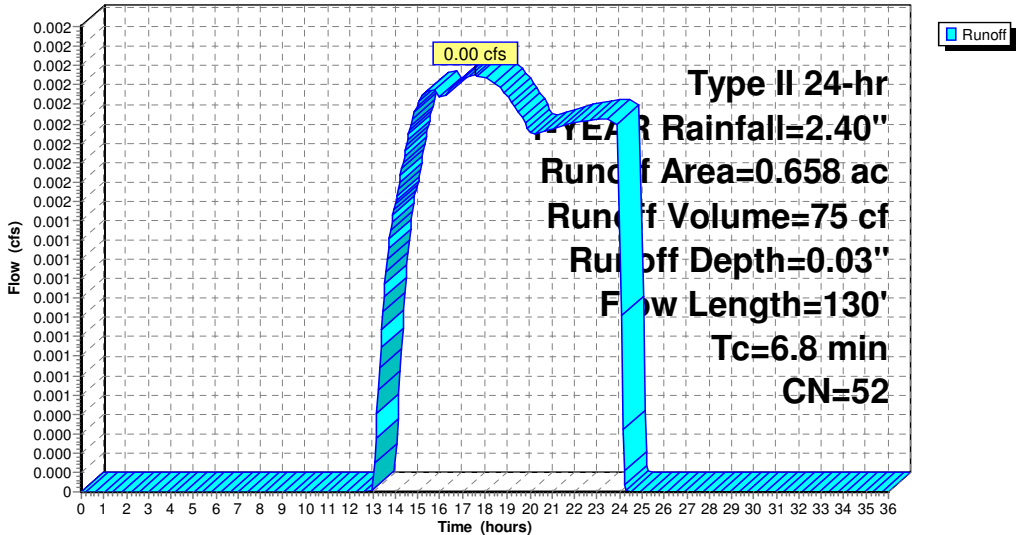
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-YEAR Rainfall=2.40"

Area (ac)	CN	Description
0.153	96	Gravel surface, HSG A
0.505	39	>75% Grass cover, Good, HSG A
0.658	52	Weighted Average
0.658		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	100	0.0650	0.25		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 2.80"
0.3	30	0.0670	1.81		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.8	130	Total			

**Subcatchment 2S: PRE 1B**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 1-YEAR Rainfall=2.40"

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**Summary for Subcatchment 3S: PRE 2**

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 3 cf, Depth= 0.00"

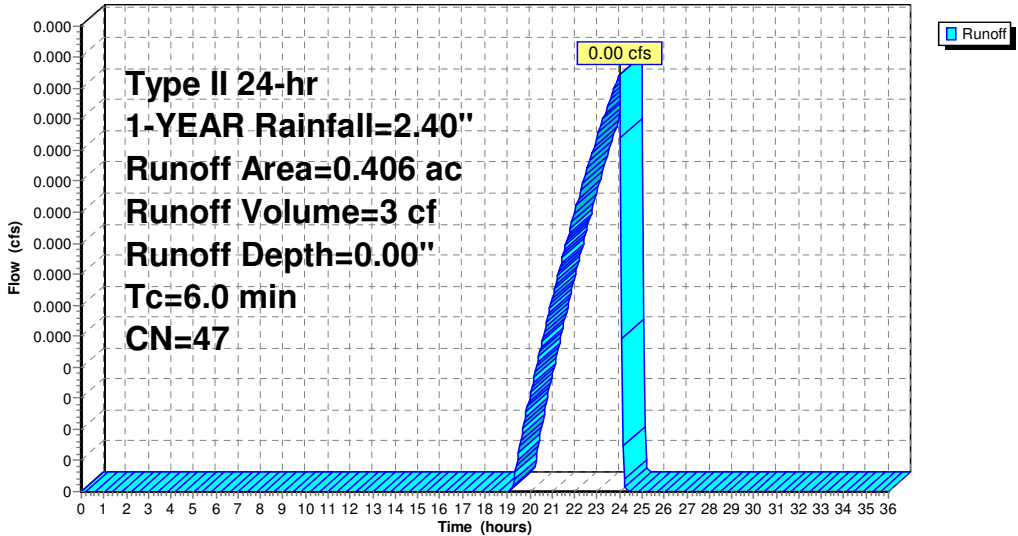
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-YEAR Rainfall=2.40"

Area (ac)	CN	Description
0.028	98	Paved parking, HSG A
0.026	96	Gravel surface, HSG A
0.352	39	>75% Grass cover, Good, HSG A
0.406	47	Weighted Average
0.378		93.10% Pervious Area
0.028		6.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 3S: PRE 2**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 1-YEAR Rainfall=2.40"

Prepared by ABD Engineers, LLP

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**Summary for Subcatchment 4S: POST 1A**

Runoff = 1.64 cfs @ 11.98 hrs, Volume= 3,502 cf, Depth= 0.68"

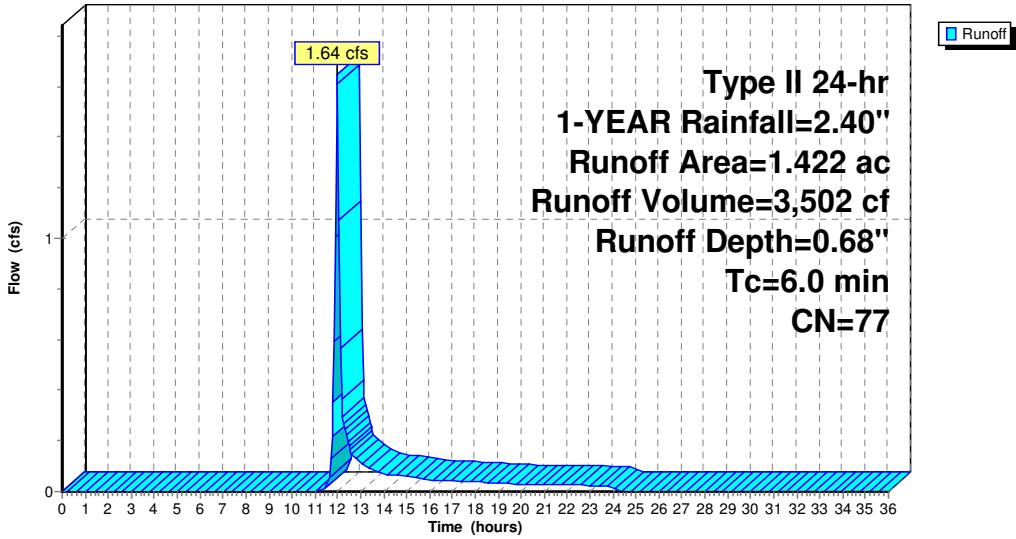
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-YEAR Rainfall=2.40"

Area (ac)	CN	Description
0.719	98	Paved parking, HSG A
0.186	98	Roofs, HSG A
0.517	39	>75% Grass cover, Good, HSG A
1.422	77	Weighted Average
0.517		36.36% Pervious Area
0.905		63.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 4S: POST 1A**

Hydrograph



5201-HydroCAD S5

Type II 24-hr 1-YEAR Rainfall=2.40"

Prepared by ABD Engineers, LLP

HydroCAD® 10.00-18 s/n 00936 © 2016 HydroCAD Software Solutions LLC

Summary for Subcatchment 5S: POST 1B

Runoff = 0.00 cfs @ 23.98 hrs, Volume= 0 cf, Depth= 0.00"

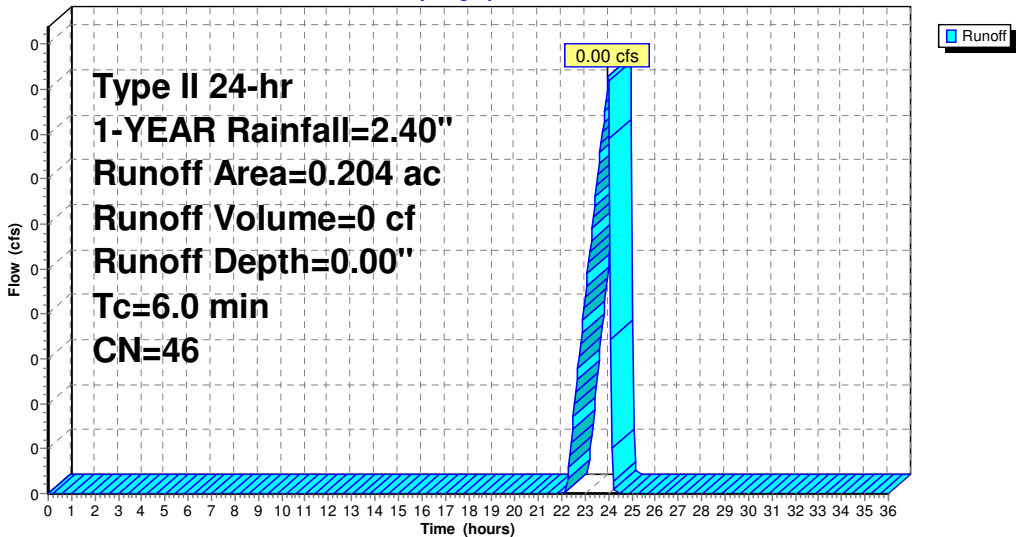
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-YEAR Rainfall=2.40"

Area (ac)	CN	Description
0.024	98	Paved parking, HSG A
0.180	39	>75% Grass cover, Good, HSG A
0.204	46	Weighted Average
0.180		88.24% Pervious Area
0.024		11.76% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment 5S: POST 1B

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 1-YEAR Rainfall=2.40"

Prepared by ABD Engineers, LLP

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**Summary for Subcatchment 6S: POST 2**

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 2 cf, Depth= 0.00"

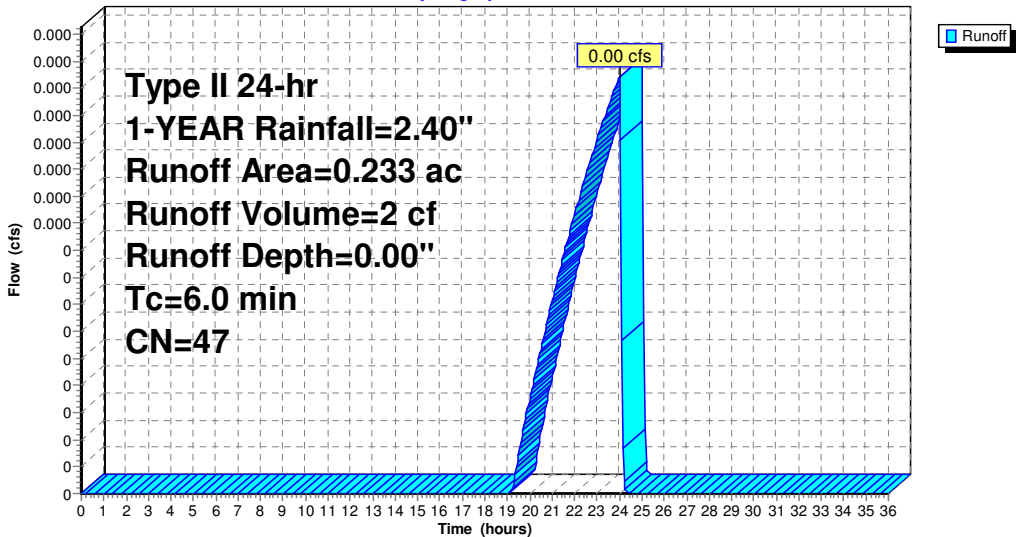
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-YEAR Rainfall=2.40"

Area (ac)	CN	Description
0.031	98	Paved parking, HSG A
0.202	39	>75% Grass cover, Good, HSG A
0.233	47	Weighted Average
0.202		86.70% Pervious Area
0.031		13.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 6S: POST 2**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 1-YEAR Rainfall=2.40"

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**Summary for Pond 1P: INFILTRATION BASIN**

Inflow Area = 61,942 sf, 63.64% Impervious, Inflow Depth = 0.68" for 1-YEAR event  
 Inflow = 1.64 cfs @ 11.98 hrs, Volume= 3,502 cf  
 Outflow = 0.45 cfs @ 12.13 hrs, Volume= 3,502 cf, Atten= 73%, Lag= 8.9 min  
 Discarded = 0.45 cfs @ 12.13 hrs, Volume= 3,502 cf  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Peak Elev= 280.12' @ 12.13 hrs Surf.Area= 6,430 sf Storage= 734 cf

Plug-Flow detention time= 9.9 min calculated for 3,497 cf (100% of inflow)  
 Center-of-Mass det. time= 9.9 min ( 877.1 - 867.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	280.00'	12,636 cf	<b>Custom Stage Data (Prismatic)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
280.00	6,085	0	0
281.00	9,025	7,555	7,555
281.50	11,300	5,081	12,636

Device	Routing	Invert	Outlet Devices
#1	Discarded	280.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#2	Primary	277.00'	<b>12.0" Round Outlet Pipe</b> L= 35.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.00' / 272.00' S= 0.1429 ' S= 0.1429 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	280.15'	<b>6.0" Horiz. Orifice</b> C= 0.600 Limited to weir flow at low heads
#4	Device 3	279.00'	<b>6.0" Round Underdrain</b> L= 360.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 279.00' / 278.50' S= 0.0014 ' S= 0.0014 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#5	Secondary	280.95'	<b>10.0' long x 8.0' breadth Spillway</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Discarded OutFlow** Max=0.45 cfs @ 12.13 hrs HW=280.12' (Free Discharge)  
 ↑ **1=Exfiltration** (Exfiltration Controls 0.45 cfs)

**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=280.00' (Free Discharge)  
 ↑ **2=Outlet Pipe** (Passes 0.00 cfs of 5.98 cfs potential flow)  
 ↑ **3=Orifice** ( Controls 0.00 cfs)  
 ↑ **4=Underdrain** ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=280.00' (Free Discharge)  
 ↑ **5=Spillway** ( Controls 0.00 cfs)

5201-HydroCAD S5

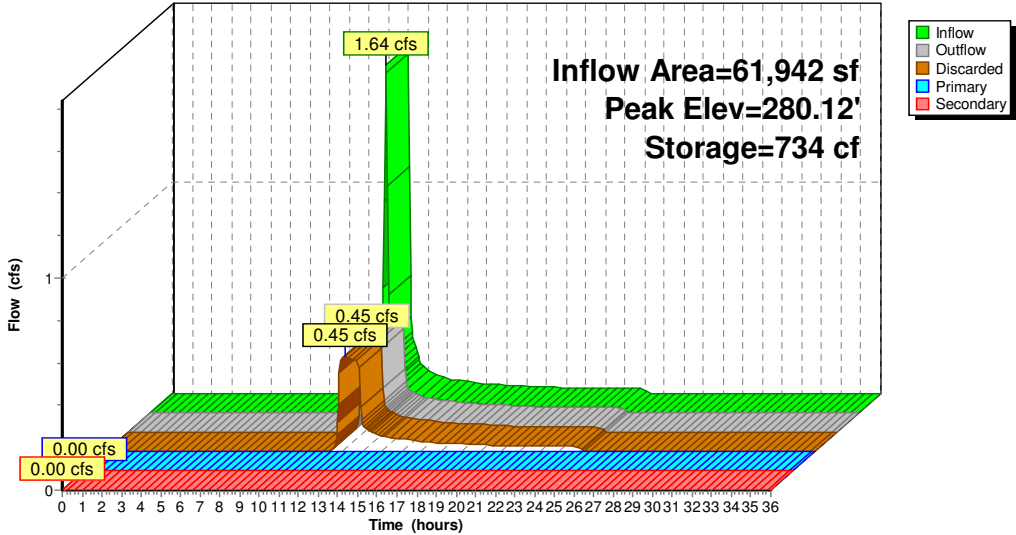
Type II 24-hr 1-YEAR Rainfall=2.40"

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Pond 1P: INFILTRATION BASIN

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 10-YEAR Rainfall=4.50"

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**Summary for Subcatchment 1S: PRE 1A**

Runoff = 0.23 cfs @ 12.10 hrs, Volume= 1,193 cf, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-YEAR Rainfall=4.50"

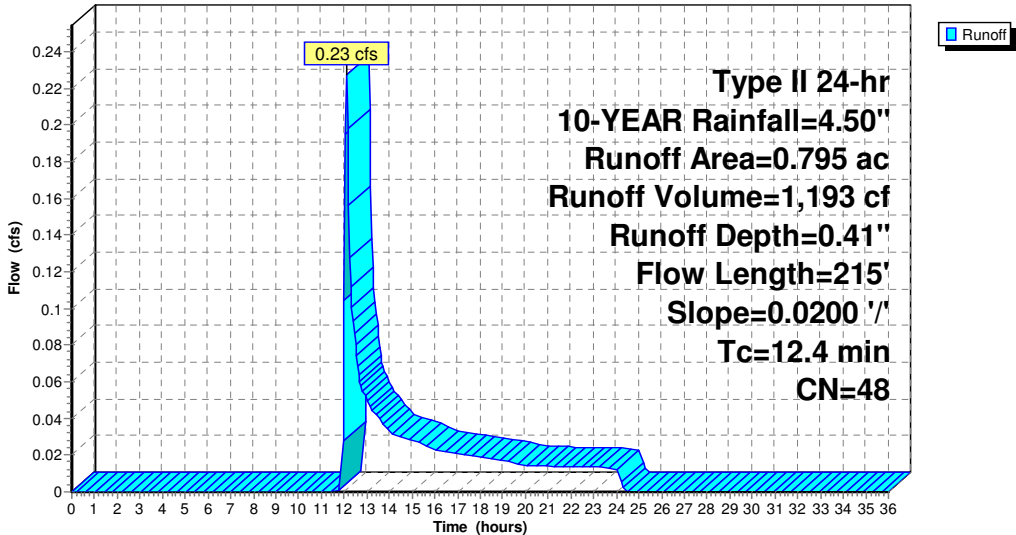
Area (ac)	CN	Description
0.119	96	Gravel surface, HSG A
0.676	39	>75% Grass cover, Good, HSG A
0.795	48	Weighted Average
0.795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	100	0.0200	0.16		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 2.80"
1.9	115	0.0200	0.99		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
12.4	215	Total			

**Subcatchment 1S: PRE 1A**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 10-YEAR Rainfall=4.50"

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**Summary for Subcatchment 2S: PRE 1B**

Runoff = 0.50 cfs @ 12.01 hrs, Volume= 1,415 cf, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-YEAR Rainfall=4.50"

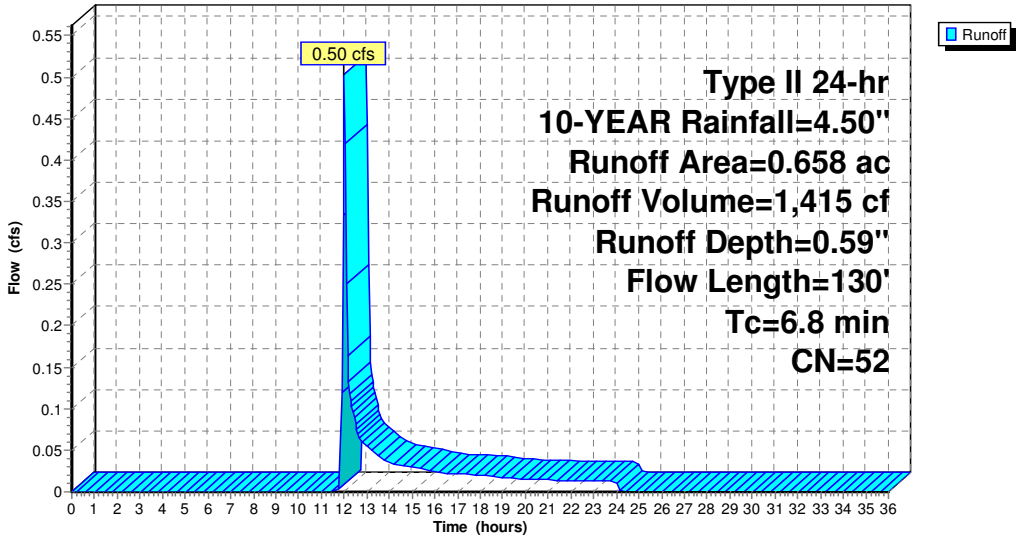
Area (ac)	CN	Description
0.153	96	Gravel surface, HSG A
0.505	39	>75% Grass cover, Good, HSG A
0.658	52	Weighted Average
0.658		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	100	0.0650	0.25		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 2.80"
0.3	30	0.0670	1.81		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.8	130	Total			

**Subcatchment 2S: PRE 1B**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 10-YEAR Rainfall=4.50"

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**Summary for Subcatchment 3S: PRE 2**

Runoff = 0.13 cfs @ 12.02 hrs, Volume= 549 cf, Depth= 0.37"

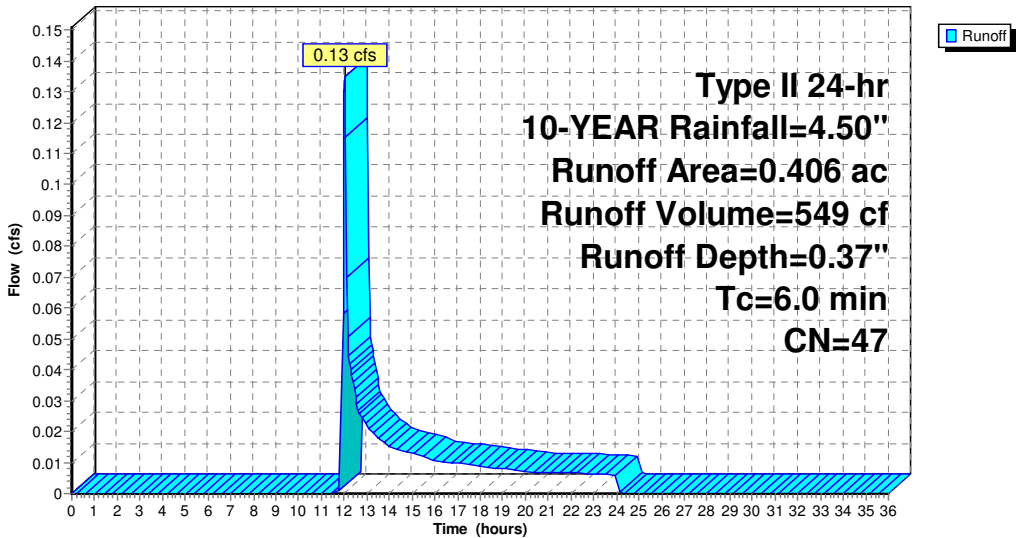
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-YEAR Rainfall=4.50"

Area (ac)	CN	Description
0.028	98	Paved parking, HSG A
0.026	96	Gravel surface, HSG A
0.352	39	>75% Grass cover, Good, HSG A
0.406	47	Weighted Average
0.378		93.10% Pervious Area
0.028		6.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 3S: PRE 2**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 10-YEAR Rainfall=4.50"

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**Summary for Subcatchment 4S: POST 1A**

Runoff = 5.41 cfs @ 11.97 hrs, Volume= 11,411 cf, Depth= 2.21"

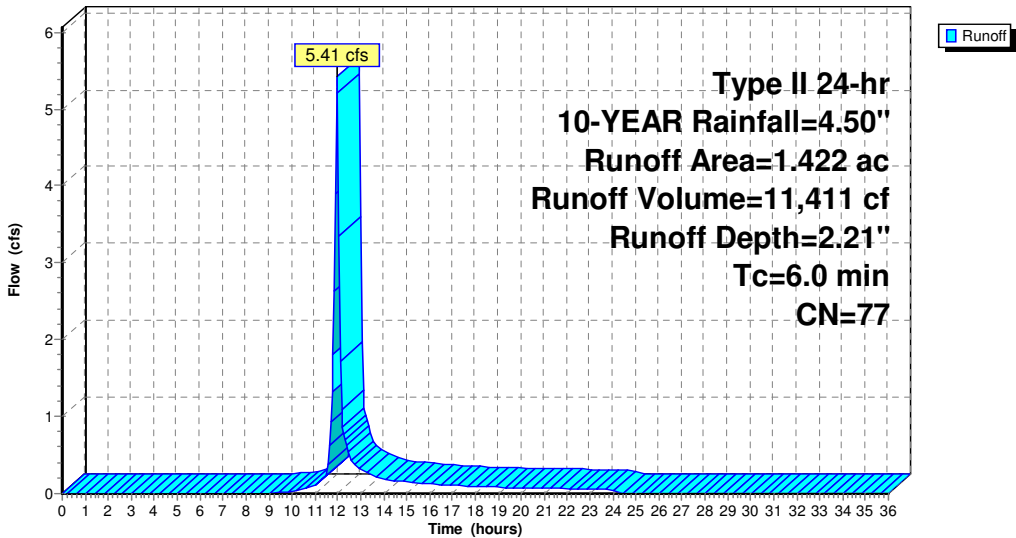
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-YEAR Rainfall=4.50"

Area (ac)	CN	Description
0.719	98	Paved parking, HSG A
0.186	98	Roofs, HSG A
0.517	39	>75% Grass cover, Good, HSG A
1.422	77	Weighted Average
0.517		36.36% Pervious Area
0.905		63.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 4S: POST 1A**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 10-YEAR Rainfall=4.50"

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**Summary for Subcatchment 5S: POST 1B**

Runoff = 0.05 cfs @ 12.02 hrs, Volume= 247 cf, Depth= 0.33"

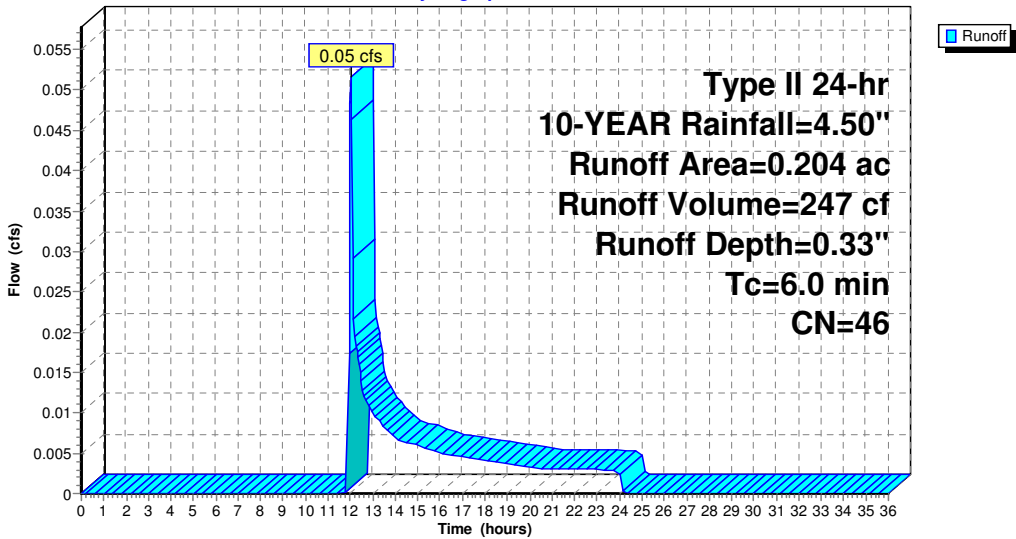
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-YEAR Rainfall=4.50"

Area (ac)	CN	Description
0.024	98	Paved parking, HSG A
0.180	39	>75% Grass cover, Good, HSG A
0.204	46	Weighted Average
0.180		88.24% Pervious Area
0.024		11.76% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 5S: POST 1B**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 10-YEAR Rainfall=4.50"

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**Summary for Subcatchment 6S: POST 2**

Runoff = 0.08 cfs @ 12.02 hrs, Volume= 315 cf, Depth= 0.37"

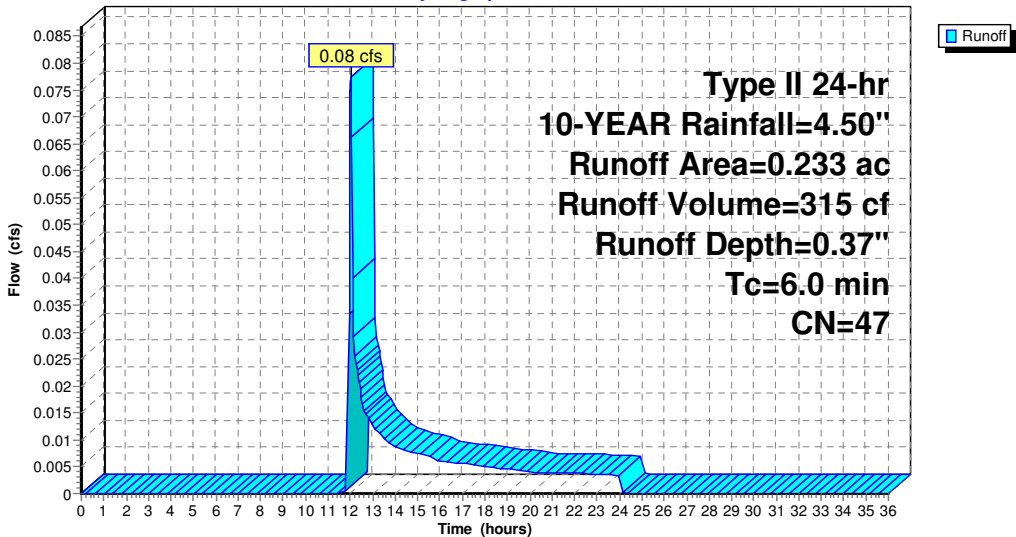
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-YEAR Rainfall=4.50"

Area (ac)	CN	Description
0.031	98	Paved parking, HSG A
0.202	39	>75% Grass cover, Good, HSG A
0.233	47	Weighted Average
0.202		86.70% Pervious Area
0.031		13.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 6S: POST 2**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 10-YEAR Rainfall=4.50"

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**Summary for Pond 1P: INFILTRATION BASIN**

Inflow Area = 61,942 sf, 63.64% Impervious, Inflow Depth = 2.21" for 10-YEAR event  
 Inflow = 5.41 cfs @ 11.97 hrs, Volume= 11,411 cf  
 Outflow = 0.73 cfs @ 12.28 hrs, Volume= 11,411 cf, Atten= 87%, Lag= 18.5 min  
 Discarded = 0.54 cfs @ 12.28 hrs, Volume= 10,045 cf  
 Primary = 0.19 cfs @ 12.28 hrs, Volume= 1,366 cf  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Peak Elev= 280.58' @ 12.28 hrs Surf.Area= 7,785 sf Storage= 4,010 cf

Plug-Flow detention time= 43.9 min calculated for 11,411 cf (100% of inflow)  
 Center-of-Mass det. time= 43.8 min ( 875.3 - 831.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	280.00'	12,636 cf	<b>Custom Stage Data (Prismatic)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
280.00	6,085	0	0
281.00	9,025	7,555	7,555
281.50	11,300	5,081	12,636

Device	Routing	Invert	Outlet Devices
#1	Discarded	280.00'	<b>3,000 in/hr Exfiltration over Surface area</b>
#2	Primary	277.00'	<b>12.0" Round Outlet Pipe</b> L= 35.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.00' / 272.00' S= 0.1429 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	280.15'	<b>6.0" Horiz. Orifice</b> C= 0.600 Limited to weir flow at low heads
#4	Device 3	279.00'	<b>6.0" Round Underdrain</b> L= 360.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 279.00' / 278.50' S= 0.0014 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#5	Secondary	280.95'	<b>10.0' long x 8.0' breadth Spillway</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Discarded OutFlow** Max=0.54 cfs @ 12.28 hrs HW=280.58' (Free Discharge)  
 ↑ **1=Exfiltration** (Exfiltration Controls 0.54 cfs)

**Primary OutFlow** Max=0.19 cfs @ 12.28 hrs HW=280.58' (Free Discharge)  
 ↑ **2=Outlet Pipe** (Passes 0.19 cfs of 6.63 cfs potential flow)  
 ↑ **3=Orifice** (Passes 0.19 cfs of 0.62 cfs potential flow)  
 ↑ **4=Underdrain** (Outlet Controls 0.19 cfs @ 0.96 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=280.00' (Free Discharge)  
 ↑ **5=Spillway** ( Controls 0.00 cfs)

5201-HydroCAD S5

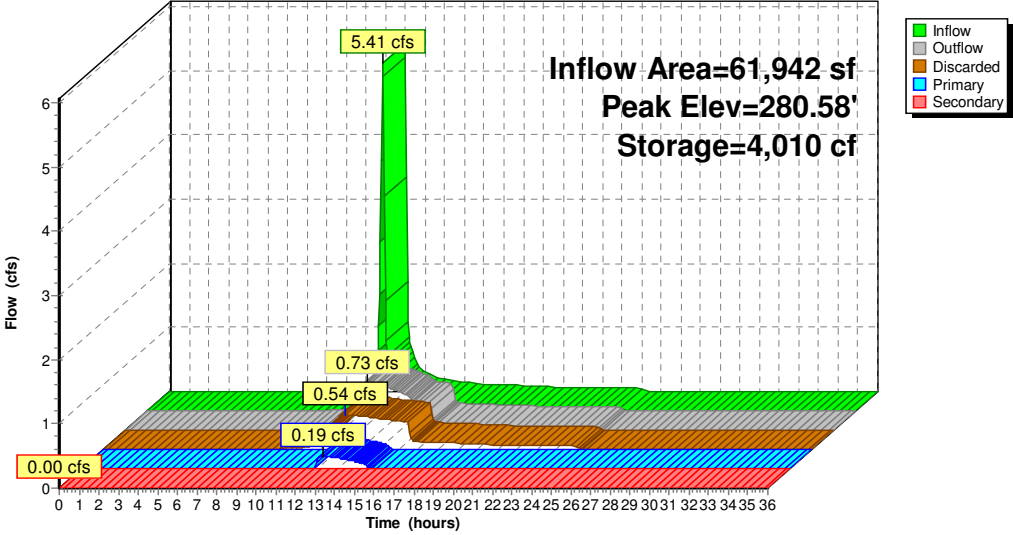
Type II 24-hr 10-YEAR Rainfall=4.50"

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Pond 1P: INFILTRATION BASIN

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 100-YEAR Rainfall=6.00"

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**Summary for Subcatchment 1S: PRE 1A**

Runoff = 0.88 cfs @ 12.07 hrs, Volume= 2,891 cf, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 100-YEAR Rainfall=6.00"

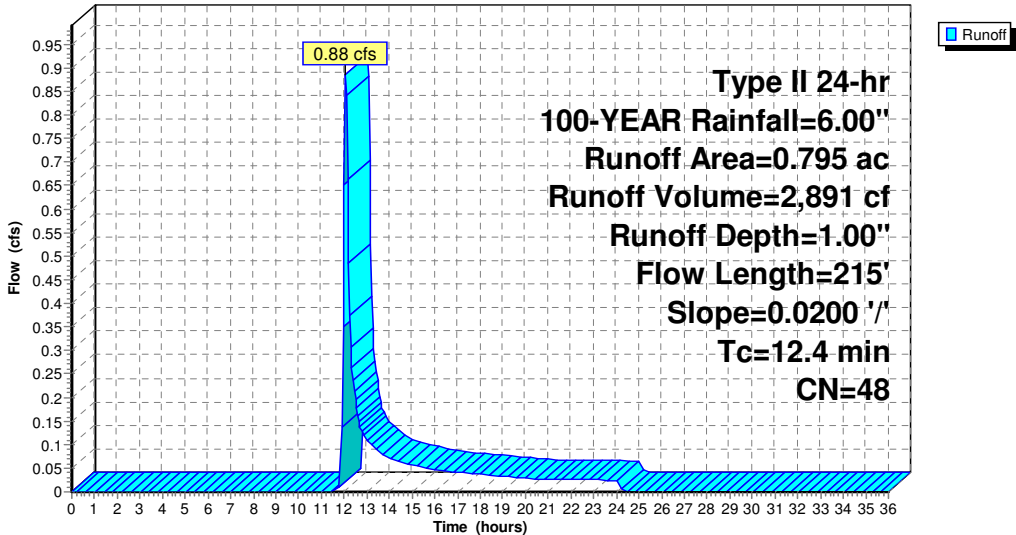
Area (ac)	CN	Description
0.119	96	Gravel surface, HSG A
0.676	39	>75% Grass cover, Good, HSG A
0.795	48	Weighted Average
0.795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	100	0.0200	0.16		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 2.80"
1.9	115	0.0200	0.99		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
12.4	215	Total			

**Subcatchment 1S: PRE 1A**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 100-YEAR Rainfall=6.00"

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**Summary for Subcatchment 2S: PRE 1B**

Runoff = 1.34 cfs @ 12.00 hrs, Volume= 3,079 cf, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 100-YEAR Rainfall=6.00"

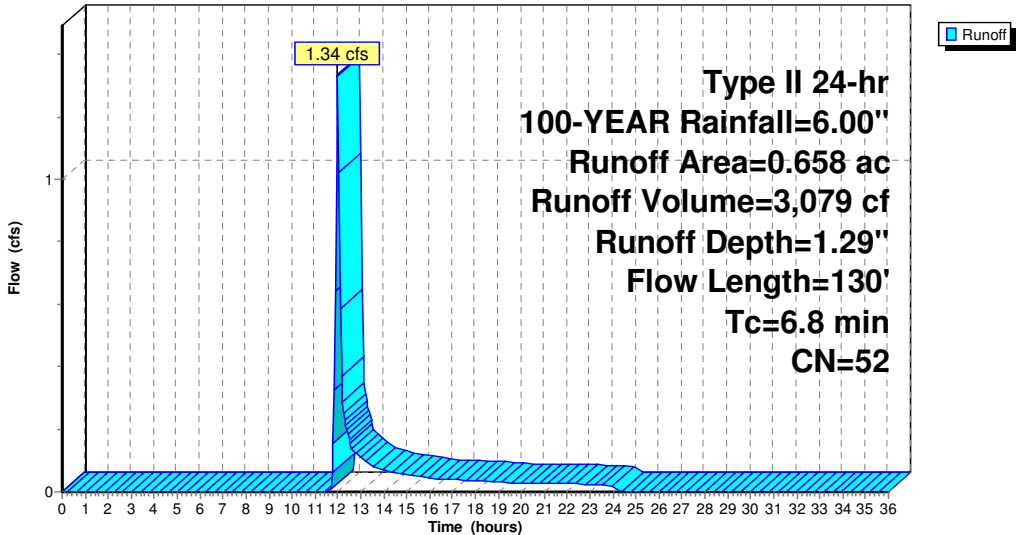
Area (ac)	CN	Description
0.153	96	Gravel surface, HSG A
0.505	39	>75% Grass cover, Good, HSG A
0.658	52	Weighted Average
0.658		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	100	0.0650	0.25		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 2.80"
0.3	30	0.0670	1.81		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.8	130	Total			

**Subcatchment 2S: PRE 1B**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 100-YEAR Rainfall=6.00"

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**Summary for Subcatchment 3S: PRE 2**

Runoff = 0.55 cfs @ 12.00 hrs, Volume= 1,376 cf, Depth= 0.93"

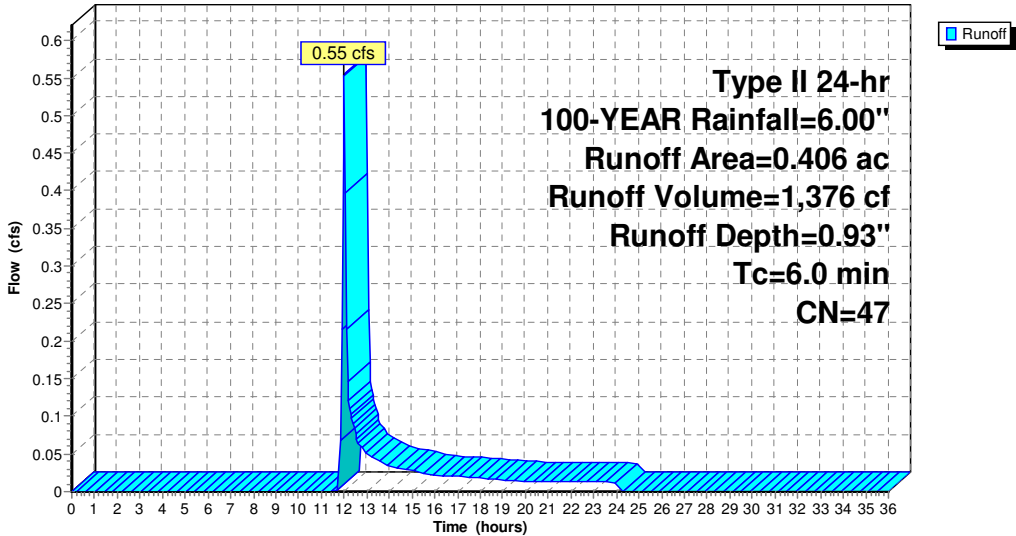
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 100-YEAR Rainfall=6.00"

Area (ac)	CN	Description
0.028	98	Paved parking, HSG A
0.026	96	Gravel surface, HSG A
0.352	39	>75% Grass cover, Good, HSG A
0.406	47	Weighted Average
0.378		93.10% Pervious Area
0.028		6.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 3S: PRE 2**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 100-YEAR Rainfall=6.00"

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**Summary for Subcatchment 4S: POST 1A**

Runoff = 8.44 cfs @ 11.97 hrs, Volume= 17,958 cf, Depth= 3.48"

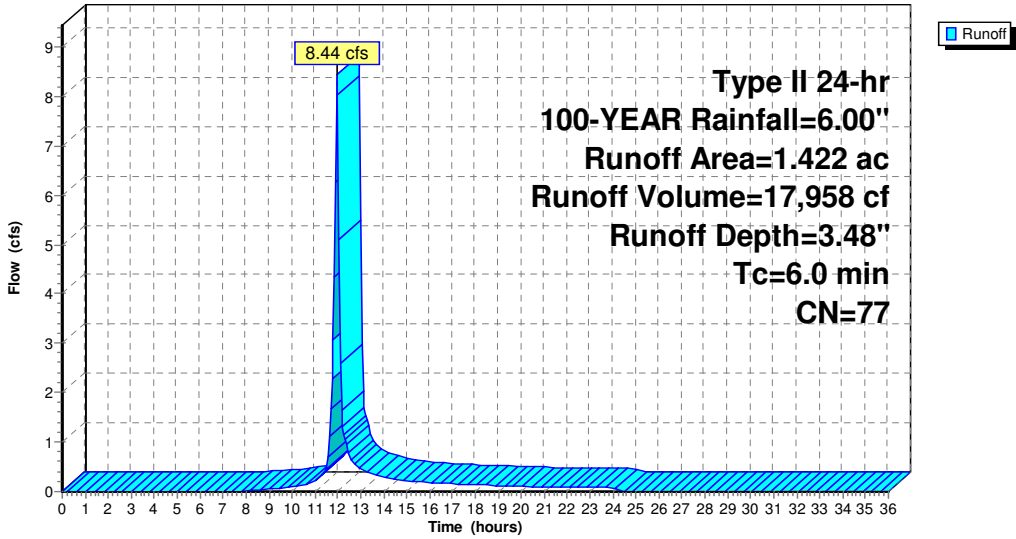
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 100-YEAR Rainfall=6.00"

Area (ac)	CN	Description
0.719	98	Paved parking, HSG A
0.186	98	Roofs, HSG A
0.517	39	>75% Grass cover, Good, HSG A
1.422	77	Weighted Average
0.517		36.36% Pervious Area
0.905		63.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 4S: POST 1A**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 100-YEAR Rainfall=6.00"

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**Summary for Subcatchment 5S: POST 1B**

Runoff = 0.25 cfs @ 12.00 hrs, Volume= 642 cf, Depth= 0.87"

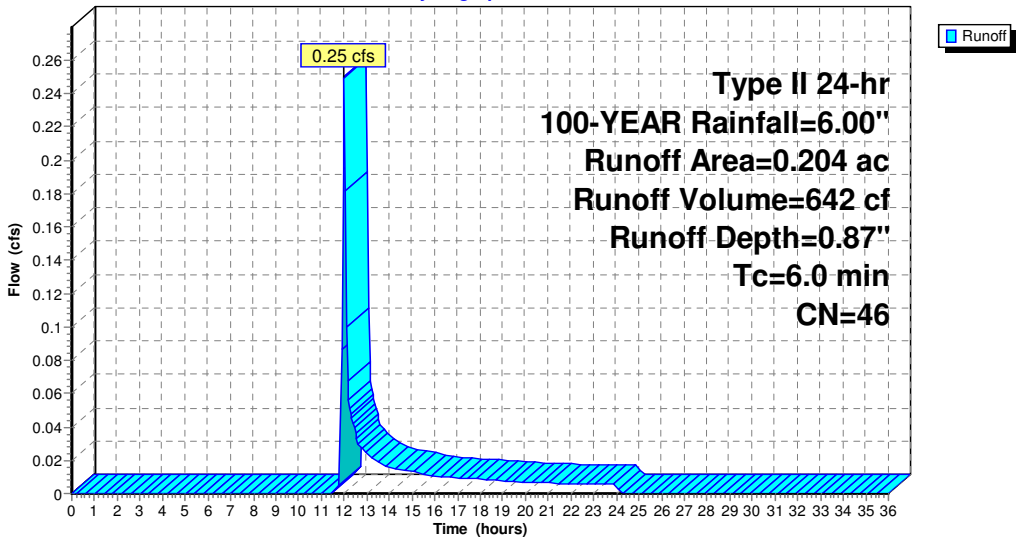
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 100-YEAR Rainfall=6.00"

Area (ac)	CN	Description
0.024	98	Paved parking, HSG A
0.180	39	>75% Grass cover, Good, HSG A
0.204	46	Weighted Average
0.180		88.24% Pervious Area
0.024		11.76% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 5S: POST 1B**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 100-YEAR Rainfall=6.00"

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**Summary for Subcatchment 6S: POST 2**

Runoff = 0.32 cfs @ 12.00 hrs, Volume= 790 cf, Depth= 0.93"

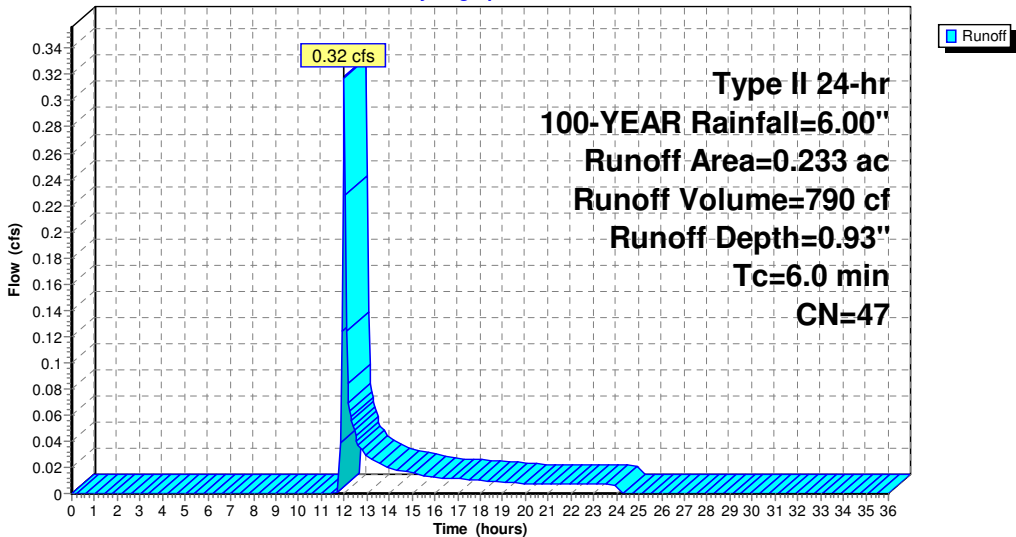
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 100-YEAR Rainfall=6.00"

Area (ac)	CN	Description
0.031	98	Paved parking, HSG A
0.202	39	>75% Grass cover, Good, HSG A
0.233	47	Weighted Average
0.202		86.70% Pervious Area
0.031		13.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment 6S: POST 2**

Hydrograph



**5201-HydroCAD S5**

Type II 24-hr 100-YEAR Rainfall=6.00"

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**Summary for Pond 1P: INFILTRATION BASIN**

Inflow Area = 61,942 sf, 63.64% Impervious, Inflow Depth = 3.48" for 100-YEAR event  
 Inflow = 8.44 cfs @ 11.97 hrs, Volume= 17,958 cf  
 Outflow = 0.87 cfs @ 12.42 hrs, Volume= 17,958 cf, Atten= 90%, Lag= 27.0 min  
 Discarded = 0.62 cfs @ 12.42 hrs, Volume= 14,908 cf  
 Primary = 0.26 cfs @ 12.42 hrs, Volume= 3,050 cf  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs  
 Peak Elev= 280.94' @ 12.42 hrs Surf.Area= 8,861 sf Storage= 7,056 cf

Plug-Flow detention time= 69.5 min calculated for 17,934 cf (100% of inflow)  
 Center-of-Mass det. time= 69.4 min ( 887.9 - 818.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	280.00'	12,636 cf	<b>Custom Stage Data (Prismatic)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
280.00	6,085	0	0
281.00	9,025	7,555	7,555
281.50	11,300	5,081	12,636

Device	Routing	Invert	Outlet Devices
#1	Discarded	280.00'	<b>3,000 in/hr Exfiltration over Surface area</b>
#2	Primary	277.00'	<b>12.0" Round Outlet Pipe</b> L= 35.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.00' / 272.00' S= 0.1429 ' S= 0.1429 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	280.15'	<b>6.0" Horiz. Orifice</b> C= 0.600 Limited to weir flow at low heads
#4	Device 3	279.00'	<b>6.0" Round Underdrain</b> L= 360.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 279.00' / 278.50' S= 0.0014 ' S= 0.0014 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#5	Secondary	280.95'	<b>10.0' long x 8.0' breadth Spillway</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Discarded OutFlow** Max=0.62 cfs @ 12.42 hrs HW=280.94' (Free Discharge)  
 ↑ **1=Exfiltration** (Exfiltration Controls 0.62 cfs)

**Primary OutFlow** Max=0.26 cfs @ 12.42 hrs HW=280.94' (Free Discharge)  
 ↑ **2=Outlet Pipe** (Passes 0.26 cfs of 7.02 cfs potential flow)  
 ↑ **3=Orifice** (Passes 0.26 cfs of 0.84 cfs potential flow)  
 ↑ **4=Underdrain** (Outlet Controls 0.26 cfs @ 1.31 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=280.00' (Free Discharge)  
 ↑ **5=Spillway** ( Controls 0.00 cfs)

5201-HydroCAD S5

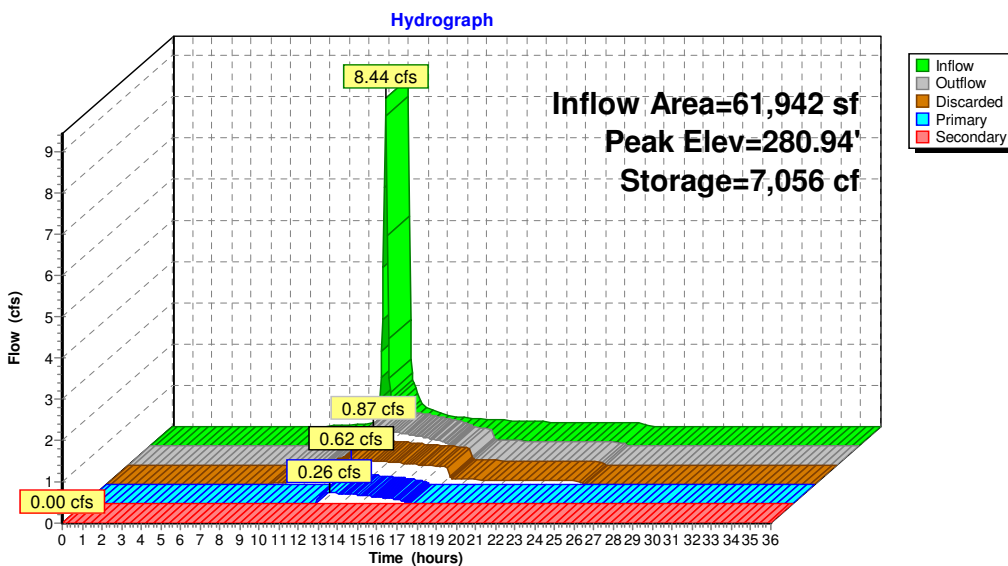
Type II 24-hr 100-YEAR Rainfall=6.00"

Prepared by ABD Engineers, LLP

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### Pond 1P: INFILTRATION BASIN



**STORMWATER POLLUTION  
PREVENTION PLAN**

FOR

MIXED USE BUILDING  
97-99 Twenty West Drive  
Town of Guilderland  
Albany County, New York

Prepared For:

Michael Davidson  
42 Sweetie Lane  
Altamont, NY 12009

April 9, 2021

Project No. 5201A

Prepared By:

Luigi A. Palleschi, P.E.  
ABD Engineers, LLP  
411 Union Street  
Schenectady, NY 12305  
(518) 377-0315

## STORMWATER POLLUTION PREVENTION PLAN

MIXED USE BUILDING  
97-99 Twenty West Drive  
Town of Guilderland  
Albany County, New York

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### APPENDICES

EXHIBIT 1- SITE LOCATION MAP & SOIL INFORMATION

APPENDIX A- SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES  
FROM CONSTRUCTION ACTIVITY

APPENDIX B- MS4 ACCEPTANCE FORM, NOTICE OF INTENT (NOI), NOTICE  
OF TERMINATION (NOT) FORM

APPENDIX C- EROSION AND SEDIMENT CONTROL STANDARDS AND  
SPECIFICATIONS

APPENDIX D- SWPPP DOCUMENTS

## STORMWATER POLLUTION PREVENTION PLAN

MIXED USE BUILDING  
97-99 Twenty West Drive  
Town of Guilderland  
Albany County, New York

### 1.0 SITE DESCRIPTION

#### 1.1 PROJECT NAME AND LOCATION

MIXED USE BUILDING  
97-99 Twenty West Drive  
Town of Guilderland  
Albany County, New York

#### 1.2 OWNER NAME AND ADDRESS

Michael Davidson  
42 Sweetie Lane  
Altamont, NY 12009

#### 1.3 PLANS AND REPORTS

Plans and additional reports to be used in conjunction with this Stormwater Pollution Prevention Plan (SWPPP) are as follows:

- Plans entitled “Mixed Use Building, 27-99 Twenty West Drive”, prepared by ABD Engineers, LLP, dated November 2, 2020, as revised.
- Stormwater Management Report for “Mixed Use Building, 97-99 Twenty West Drive” prepared by ABD Engineers, LLP, 411 Union Street, Schenectady, NY 12305, dated April 9, 2021.

#### 1.4 DESCRIPTION: (PURPOSE AND TYPES OF SOIL DISTURBING ACTIVITIES)

The proposed mixed use building is located at 97-99 Twenty West Drive in the Town of Guilderland, Albany County, New York (see Exhibit 1). The site is bordered on the north by Western Turnpike (Route 20), on the east by Twenty West Drive, on the south by a residential house, and on the west by a restaurant.

The applicant is proposing to redevelop the existing 1.8± acre parcel in order to construct one (1) mixed use building with associated pavement, utilities, and stormwater management practice for water quality treatment utilizing runoff reduction. Access to the site will be provided off of Twenty West Drive via a

new driveway and emergency cross access will also be provided to the adjacent restaurant lot to the west.

According to the Albany County NRCS, the primary hydrologic soil group is Type A loamy fine sand. The soils are generally well drained with a high-water table depth approximately 5 feet below existing grade. The existing site has a central high point and drains southeast toward Twenty West Drive, north toward Route 20, and west offsite.

Soil disturbing activities include cuts and fills to produce suitable grades for construction of the referenced components. An area of about 1.6± acres will be disturbed during construction.

According to the NYSDEC EAF Mapper, the site does not contain any species of plant or animal that is listed as endangered, threatened, or rare.

## **1.5 STORMWATER MANAGEMENT**

See Stormwater Management Report.

### **1.5A STORMWATER MANAGEMENT & PLANNING PER CHAPTER 3&4 OF THE NYSDEC STORMWATER MANAGEMENT DESIGN MANUAL AUGUST 2015**

- a. *Site planning to preserve natural features and reduce impervious cover;* Impervious surfaces included in the proposed project are building rooftop and asphalt pavement. Infiltration is used to recharge the groundwater as in the pre-development condition.
- b. *Calculation of the Water Quality Volume for the Site;* The water quality volume calculation has been provided in the referenced stormwater management report and meets NYSDEC stormwater regulations. The water quality volume has been provided based on RRV due to the soils and topography of the site. The onsite soil type is sandy Type A, which allows for the use of infiltration practices.
- c. *Incorporation of Green Infrastructure Techniques and Standard SMP's with Runoff Reduction Volume (RRv) Capacity;* Stormwater from the developed area will be treated through the use of infiltration and meets WQv and RRV requirements. The design utilizes an infiltration basin for runoff reduction.

- d. *Design of Volume and Peak Rate Control Practices*; This project meets or exceeds NYSDEC stormwater regulations. Calculations and further discussions are attached to the stormwater management report prepared for this project. Runoff draining to the stormwater practice will be treated and will infiltrate.

#### **1.6 SEQUENCE OF MAJOR ACTIVITIES**

The following is the general sequence of construction that will occur on the site:

- 1.61 Site Preparation.** Silt fence will be installed all along the descending slopes of the limits of grading and at any other location where siltation may occur. The silt fence shall remain in place until all areas being served are stabilized. A temporary construction entrance shall be established to capture mud and debris from construction vehicles before they enter public roads. Clearing and earth disturbance shall be limited to that necessary to install temporary sediment control measures.
- 1.62 Rough Grading.** Trees and other vegetation will be removed from areas to be disturbed. Some topsoil stripping and stockpiling will take place to be used later in landscaped areas. Earthmoving to grade the site to approved finish grades may then occur. Any additional required silt fence will be installed. There shall not be more than five (5) acres of disturbed soil at any one time without prior written approval from the Department of Environmental Conservation.
- 1.63 Building Site Preparation.** The location of the building will be graded to establish the finished floor elevation. The construction of the building will occur concurrently with the remaining site work.
- 1.64 Utility Installation.** Drainage facilities will be installed once subgrades are established and fills are compacted. Inlet protection measures shall be installed once any storm drains have been completed. All disturbed areas shall be restored in accordance with the soil restoration requirements listed in Table 5.3 of the NYS Stormwater Design Manual.
- 1.65 Paving.** Driveway and parking will be paved.
- 1.66 Landscaping.** Topsoil will be spread on areas to be landscaped and areas will be planted/seeded in accordance with the plans. All disturbed areas must be stabilized. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased.

**1.7 NAME OF RECEIVING WATERS**

The nearest surface body of water is a tributary of the Normans Kill. Stormwater from the proposed site infiltrates and recharges groundwater onsite.

**2.0 CONTROLS****2.1 EROSION AND SEDIMENT CONTROLS. STABILIZATION PRACTICES.**

Disturbed areas within the limits of grading will be stabilized by planting/seeding and mulching. Where seeding stabilization is needed, perennial rye grass applied at a rate of 150 pounds per acre may be used. All seeded areas are then to be mulched using straw mulch at a rate of 2 ton per acre. If anchoring of the straw mulch is needed, wood fiber mulch may then be applied at a rate of 500 pounds per acre.

**2.2 STRUCTURAL PRACTICES.**

Silt fence or straw bale dikes will be placed on the downhill side of exposed slopes and trenches before clearing or excavation take place. The silt fence shall be Marafi 100X geotextile fabric, or equal, attached to 2"x2" minimum wooden stakes as per manufacturer's recommendations and as specified in the "NYS Standards and Specifications for Erosion and Sediment Control". It shall remain and be inspected and maintained until the site is stabilized. Maintenance shall be performed as needed, and sediment material removed when "bulges" develop in the silt fence. Inspections of the straw bale dikes shall be frequent, and repair replacements shall be made promptly as needed. Silt barriers will also be installed in the flow line of drainage channels and ditches. Erosion control barriers will be supplemented as necessary during construction and will be maintained throughout the duration of site construction activity by the Contractor.

Runoff will be directed away from excavated areas, and temporary swales will be installed with a minimum grade of one percent. Stabilization shall occur as soon as practicable.

Watering of excavation and fill areas to minimize wind erosion during construction should be accomplished as required.

Stabilization in areas where soil disturbance has temporarily or permanently ceased must be initiated by the end of the next business day and completed within 14 days. During winter construction from November 15 to the following April 1, the application of soil stabilization measures should be initiated by the end of the next business day and completed within three (3) days, in areas where soil disturbance activity has temporarily or permanently ceased.

At any location where surface runoff from disturbed or graded areas may flow off the construction area, temporary sediment control measures must be installed to prevent sediment from traveling off site. No grading, filling, or other disturbance is allowed within existing drainage swales.

At the end of each workday during earthwork, operators shall grade all areas to temporary sediment trap(s). Temporary traps shall be dewatered after all rainfall events if captured water does not infiltrate within 24 hours after the end of rainfall. Traps should be dewatered to sediment bags located in relatively level areas, preferably undisturbed areas of native vegetation. At no time shall a trap be dewatered directly to a stream or wetland.

Every 7-calendar day, a qualified inspector will inspect all erosion control measures employed during construction activities to measure proper performance. The inspection will include taking digital photos of all E&SC measures needing corrective action as well as digital photos with date stamp of the corrected work. Any points of stormwater discharge from the site are also to be observed during the site inspections and condition reported.

In areas where construction would take place in “wet soils”, curtain drains or subsurface drainage will be installed to de-water the soils.

Construction vehicle traffic will be directed so as to avoid steep slopes and areas to remain vegetated to the maximum extent practicable. The Contractor will be held responsible for any soil exposure and/or erosion that occurs outside the defined limits of work and haul roads, and will immediately install erosion control measures and stabilize disturbed areas. Furthermore, any fines that could arise as a result of improper implementation of this Stormwater Pollution Prevention Plan (SWPPP) will be the responsibility of the Contractor. Only the owner or his designated representative will have the authority to authorize Contractor-requested disturbance beyond the limits on these plans. Any applicant-authorized changes will require Town approval prior to implementation.

To prevent sediment-laden water from entering the storm drain system through the inlets, all catch basins will be protected by the “fabric drop inlet protection” practice until the drainage areas served by these catch basins are stabilized. The fabric barrier shall be inspected after each rain event and repairs made as needed. Sediment shall be removed as necessary and disposed of properly.

Locate temporary topsoil stockpiles in areas, which do not receive direct runoff from swales or streams. The temporary topsoil stockpiles shall be protected with diversion swales if necessary.

Locate temporary topsoil stockpile areas beyond proposed grading activities.

To minimize erosion potential, enclose temporary topsoil stockpile areas with silt fencing.

Seed temporary topsoil stockpile areas to reduce erosion if stored for prolonged periods.

All temporary sediment traps and all drainage swales will be kept free of debris and litter, and the vegetation should be maintained to allow unobstructed flow of stormwater.

Any slopes or embankments, which have damaged vegetation, will be reseeded as necessary.

All grass swale areas will be mowed so as to facilitate unobstructed flow of stormwater.

## **2.3 OTHER CONTROLS**

### **2.31 Waste Disposal**

#### ***2.311 Waste Materials:***

All waste materials generated during site preparation and construction will be disposed of at a suitable landfill, transfer station or C & D landfill. The contractors shall inspect for and have litter picked up on a daily basis.

#### ***2.312 Hazardous Waste***

The project will not be a generator of hazardous waste and it is not anticipated that any hazardous waste will be generated during construction. If there are any materials generated, a licensed hazardous waste carrier will be contracted to dispose of the hazardous material in accordance with all local, state and federal regulations. If hazardous materials are discovered during construction, the work will be stopped until the issue is resolved.

**2.313 Sanitary Waste**

Portable sanitary facilities will be made available to construction personnel and will be serviced regularly.

**2.32 Offsite Vehicle Tracking.**

Earthwork equipment involved with the construction will remain on the project site and will not regularly egress or ingress the site. Any trucks used to bring in materials or remove materials will do so over a stabilized construction entrance so as to capture mud and debris before they enter the public highway. The stabilized construction entrance shall be 50 feet minimum in length by 24 feet minimum in width. Tytar 3401, or equal, filter cloth will be placed over the entire area prior to the placement of 6 inches of 2" stone. The entrance shall be maintained in a condition that will prevent tracking, or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand. Periodic inspection and needed maintenance shall be provided after each rain. If significant off-site vehicle tracking begins to occur, the contractor will be directed to institute a regular street sweeping program in the vicinity of the site.

**3.0 TIMING OF CONTROLS/MEASURES**

Prior to commencement of construction activity, 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 within this SWPPP. Temporary structural erosion controls will be installed prior to earthwork as per the aforementioned plans.

The Owner shall have a qualified inspector conduct an assessment of the site prior to the commencement of construction, and certify in an inspection report that the appropriate erosion and sediment controls described in this SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

The Owner shall maintain a record of all inspection reports in a site logbook. The site logbook shall be maintained on site and made available upon request. Prior to the commencement of construction, the Owner shall certify in the site logbook that the SWPPP meets all federal, state and local erosion and sediment control requirements.

The Owner shall also prepare and submit to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity during which coverage under the permit exists. The summary should address the status of achieving each component of the SWPPP. The summary shall be certified, signed, retained on site, and made available to the Department of Environmental Conservation and/or any local agency having jurisdiction.

Signatory Requirements – All NOIs, NOTs, SWPPPs, reports, certifications or information required by this permit or submitted pursuant to this permit, shall be signed as follows:

1. All NOIs and NOTs shall be signed as follows:
  - a. For a corporation: by (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person authorized to and who performs similar policy or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25,000,000 (in second-quarter 1980 dollars) if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
  - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
  - 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. The SWPPP and all reports required by the permit and other information requested by the Department or local agency shall be signed by a person described above 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 above and submitted to the Department.
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or 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 named individual or any individual occupying a named position).

- c. Certification – Except for NOIs and NOTs, any person signing documents in accordance with this Part shall 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 gathered and evaluated 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 false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.”

Structural erosion controls and non-stabilized areas shall be inspected every 7-calendar day by a qualified inspector. Copies of the Weekly Inspection Form shall be completed in full for every inspection performed. Completed inspection forms shall be retained on site and copies to the Town MS4.

To prevent sediment-laden water from entering the storm drain system through the inlets, all catch basins will be protected by the “fabric barrier drop inlet protection” practice until the drainage areas served by these catch basins are stabilized. The fabric barrier shall be inspected after each rain event and repairs made as needed. Sediment shall be removed as necessary and disposed of properly.

All temporary sediment traps shall be pumped out within 24 hours of the end of all rainfall events if stormwater has not drained or infiltrated.

Temporary erosion control devices will not be removed until the growth of vegetation or other erosion control measures stabilizes the area served.

In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased.

The Owner and Contractor shall retain copies of the Stormwater Pollution Prevention Plan, all reports, and data for a minimum of five years following final stabilization of the site.

During construction of the project, all inspection, maintenance, and repair procedures as stated in this Stormwater Pollution Prevention Plan are the ultimate responsibility of The Owner, his heirs or assigns.

All temporary measures that were installed in accordance with this Stormwater Pollution Prevention Plan shall remain the ultimate responsibility of The Owner, his heirs or assigns until such time as all areas being served are stabilized. Only after this stabilization occurs may these temporary measures be removed. 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 80% 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 stormwater associated with construction activities, and a Notice of Termination (NOT) form has been filed by the Owner(s) with the NYSDEC. 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 long term post-construction inspection, maintenance, and repair procedures as stated in this Stormwater Pollution Prevention Plan will be performed by the Owner, his heirs or assigns.

The Owner, his heirs or assigns will have the ultimate responsibility of the long-term maintenance, and repair procedures for all of the entire stormwater system as shown on the plans. An operations and maintenance manual for the Stormwater Management Control Practices will be given to The Owner, his heirs or assigns, which will include the inspection checklist from the "New York State Stormwater Management Design Manual."

#### **4.0 CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS**

The Owner has petitioned the NYSDEC for the stormwater 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) (using the form required by the federal, state, and/or local permitting agency) to be covered under this permit has been filed by the Owner. The SWPPP must be prepared prior to submittal of the NOI form. The Contractor is a co-permittee with the owner.

The NYSDEC requires that certifications of knowledge of the contents of this SWPPP and agreement to follow the SWPPP be made by the Owner and the Contractor. The terms of the General Permit also require that each Contractor sign the SWPPP, thereby making them co-permittees and acknowledging their responsibility for certain operational aspects of the plan. These certifications should be signed before the Contractor begins activities and should be filed with the site's SWPPP at the jobsite. These certifications are provided within this document.

The Stormwater Pollution Prevention Plan was prepared in accordance with the New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges from Construction Activities that are classified as “Associated with Construction Activity” pursuant to Article 17, Titles 7, 8 and Article 70 of the Environmental Conservation Law. This SPDES General Permit implements the Federal Clean Water Act pertaining to stormwater discharges. Construction will begin only after the requirements of SEQRA are met and local permits issued.

The Contractor will obtain copies of any and all local and state regulations, which are applicable to stormwater 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 Owner or any agent of a regulatory body. The Contractor will comply with all conditions of the NYSDEC General Permit for Construction Activities, including the conditions related to maintaining the Stormwater Pollution Prevention Plan (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.

## **5.0 MAINTENANCE/INSPECTION PROCEDURES**

### **5.1 EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES**

These are the inspections and maintenance practices that will be used to maintain erosion and sediment controls:

- A trained individual, appointed by the Contractor’s construction manager, will supervise day to day activities on the site during soil disturbing activities. A qualified inspector, appointed by the Owner, will make at least one weekly inspection every 7-calendar days of erosion control devices, as well as inspections with site photographs.
- All measures will be maintained in good working order and be fully operational. If repair is necessary, it will be initiated within 24 hours of discovery.
- A qualified inspector must look for evidence of the soil erosion on the site, potential of pollutants entering drainage systems, problems at discharge points (such as turbidity in receiving water), and signs of soil and mud transport from the site to the public road at the entrance.
- Silt fence maintenance shall be performed as needed, and sediment material removed when “bulges” develop in the silt fence.

- Built up sediment will be removed from silt fence and straw bales if it ever reaches one-third the height of the structural control.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- All temporary sediment traps should be inspected for stability and integrity once a week and after any storm event. Any structural failure in sediment traps or trenches that serve them will be repaired within 24 hours after detection.
- All temporary sediment traps shall be pumped dry after all rainfall events that cause water to accumulate. Basins shall be dewatered to an undisturbed upland area.
- All temporary sediment traps shall be cleaned out when one half the design depth of the trap has accumulated. All spoils shall be removed to a stabilized upland area.
- The “fabric barrier drop inlet protection”, put in at any catch basins to keep sediment from entering the storm drain system, shall be inspected after each rain event and repairs made as needed. Sediment shall be removed as necessary and disposed of properly.
- Stabilized construction entrance inspection and needed maintenance shall be provided after each rain.
- The trained individual shall inspect for and have litter picked up on a daily basis.
- Where seeding stabilization is needed, perennial ryegrass applied at a rate of 150 pounds per acre may be used. All seeded areas are then to be mulched using straw mulch at a rate of 2 ton per acre. If anchoring of the straw mulch is needed, wood fiber mulch may then be applied at a rate of 500 pounds per acre.
- Seeded and planted areas will be inspected for bare spots, washouts and healthy growth. If necessary, replanting, reseeding or sodding will be implemented.
- A maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the inspector is attached. Reports should be compiled and maintained on site.

## 5.2 NON-STORMWATER DISCHARGES

Any water collected in excavated areas will be pumped to a sediment bag located in an upland area or a sediment trap. All temporary sediment traps will be dewatered to sediment bags. Once the material is dewatered, sediment will be removed to an upland area.

## **6.0 INVENTORY FOR POLLUTION PREVENTION PLAN: SPILL PREVENTION**

### **6.1 MATERIAL MANAGEMENT PRACTICES**

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

#### **6.11 Good Housekeeping**

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

- An effort will be made to store only enough product required to do the job.
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers, and if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer,
- Whenever possible, all of a product will be used up before disposal.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The trained individual will inspect daily to ensure proper use and disposal of materials onsite.
- The contractor shall prohibit washing of tools, equipment and machinery in or within 100 feet of any watercourse or wetland and install sediment traps to filter runoff from washing operations that could enter any watercourse.

#### **6.12 Hazardous Products**

These practices are used to reduce the risks associated with hazardous materials:

- Products will be kept in original containers unless they are not resealable.
- Original labels and material safety data sheets will be retained; they contain important product information.
- If surplus product must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

## 6.2 PRODUCT SPECIFIC PRACTICES

The following product specific practices will be followed onsite:

### 6.21 Petroleum Products

- Construction personnel should be made aware that emergency telephone numbers are located in this SWPPP
- The contractor shall immediately contact NYSDEC in the event of a spill, and shall take all appropriate steps to contain the spill including constructing a dike around the spill and placing absorbent material over this spill.
- The contractor shall instruct personnel that spillage of fuels, oils, and similar chemicals must be avoided.
- Fuels, oils and chemicals will be stored in appropriate and tightly capped containers. Containers shall not be disposed of on the project site.
- Store fuels, oils, chemicals, material and equipment and locate sanitary facilities away from trees and at least 100 feet from streams, wells, wet areas, and other environmentally sensitive sites.
- Dispose of chemical containers and surplus chemicals off the project site in accordance with label directions.
- Use tight connections and hoses with appropriate nozzles in all operations involving fuels, lubricating materials or chemicals.
- Use funnels when pouring fuels, lubricating materials or chemicals.
- Refueling and cleaning of construction equipment will take place from access roads, in staging areas along roadside areas whenever practical to provide rapid response to emergency situations.
- All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Any vehicle leaking fuel or hydraulic fuel will be immediately removed from the site.

### 6.22 Fertilizer

Fertilizer will be stored in original containers and on pallets. Proper delivery scheduling will minimize storage time. Any damaged containers will be repaired immediately upon discovery and any released fertilizer recovered to the fullest extent practicable.

### 6.23 Paints

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm water or wastewater system, but will be properly disposed of according to manufacturers' instructions or State and local regulations.

**6.24 Concrete Trucks**

Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site except in a designated upland area.

Concrete truck washout will not be allowed to discharge into waters or wetlands at any time.

**6.25 Asphalt Trucks**

Asphalt trucks shall not discharge surplus asphalt on the site.

**6.3 SPILL CONTROL PRACTICES**

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be implemented for spill prevention and cleanup:

- Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies. Any spill in excess or suspected to be in excess of two gallons will be reported to the NYSDEC Spill Response Unit. Notification to NYSDEC (1-800-457-7362) must be completed within two hours of the discovery of the spill.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not be limited to: absorbent pads, brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with spilled substance.
- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of the size.
- The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring, and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- The contractor/trained individual will be the spill prevention and cleanup coordinator. He will designate at least three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area on the onsite construction office or trailer.
- A *Spill Response Report* is contained in the SWPPP Documents.

## **7.0 LONG TERM POST-CONSTRUCTION INSPECTION AND MAINTENANCE**

After the site is completely stabilized, inspections will be performed at least twice a year (after the spring thaw and in the fall). Inspections shall also occur after major rain events. All swales and stormwater management systems will be inspected on a regular basis. Sediments will be removed based on the monthly inspection. It will be the responsibility of The Owner, his heirs or assigns, for documenting these inspections and clean out work.

Post-construction regularly scheduled inspections and maintenance will be necessary to ensure the permanent structural features remain optimally functional and continue to reduce the risk of sediment loading of surface water bodies.

The Owner shall overtake responsibility of inspecting and maintaining drainage and erosion control features over the lifetime of the structures and stormwater components. Maintenance personnel, employed by the Owner, must be aware of the SWPPP and should be trained to recognize signs that stabilization measures may not be performing optimally or are failing. The inspection of onsite stabilization measures will become part of routine preventative maintenance practiced by the Owner and his employees. Inspection and maintenance should be performed as described below.

All disturbed grass areas shall be restored in accordance with the soil restoration requirements listed in Table 5.3 of the NYS Stormwater Design Manual. Ongoing maintenance shall be carried out per Section 5.1.6 of the Manual to ensure lasting results of decompaction.

### **Inspection**

#### ***Overall Site Inspection***

The overall site, embankments, and vegetation should be inspected regularly after every major rain event and at least twice a year (after the spring thaw and in the fall). The inspection should include but are not limited to:

1. Density and condition of vegetation and ground cover.
2. Erosion, differential settlement or cracking of embankment.
3. Bulging or sliding of toe of embankments.
4. Sedimentation of onsite or downstream water bodies.
5. Sedimentation of culverts or swales.
6. Sedimentation of lawn areas, paved areas.
7. Accumulation of pollutants, including oils or grease.
8. Damage of fatigue of storm associated components.

## **Maintenance**

### ***Overall Site Maintenance***

Maintenance of vegetative and structural measures for soil protection is necessary to keep the storm water system functioning properly. Maintenance should occur on a regular basis and should include but is not limited to:

### **Seasonal Maintenance**

1. Vegetated areas should be maintained to promote vigorous and dense growth. Lawn areas should be mowed at least three times a year but may require more frequent mowing depending on the growth rate.
2. Paved areas should be swept at least twice a year and in the early spring for removal of deicing materials.
3. Accumulation of litter and debris should be removed during each mowing or sweep operation.
4. Structural components of the storm system should be addressed immediately following identification.
5. Cleanout of accumulated sediments and debris should occur.
6. Signs of scour should be repaired. Weeds and brush growth should be controlled as needed.
7. Sediment buildup within the pretreatment area is removed when 25% of the volume has been exceeded.

### **Winter Maintenance**

1. Remove snow and ice away from catch basins.
2. Use of deicing materials should be limited to sand and environmentally friendly chemical products. Use of salt mixtures should be kept to a minimum.
3. Sand used for deicing should be clean, coarse material free of fines, silt, and clay.
4. Materials used for deicing should be removed during the early spring by sweeping and/or vacuuming.

### **Stormwater Management Facility Maintenance**

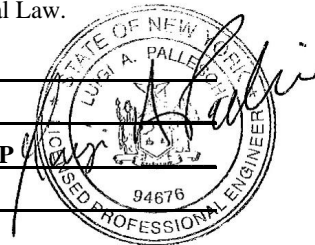
1. Accumulation of litter and debris should be removed during each mowing or sweep operation.
2. Structural components of the system which require repair or replacement should be addressed immediately following identification.
3. Stormwater management areas should be monitored periodically for sediment accumulation. Sediments should be removed after becoming clogged or restricted.

4. Inlet/outlet damage due to scour should be repaired.
5. Stormwater Management Facilities shall be inspected and maintained at a minimum as specified in the NYSDEC Stormwater Management Design Manual.

**8.0 POLLUTION PREVENTION PLAN 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 gathered and evaluated 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 false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

**Signed:** \_\_\_\_\_  
**Name:** Luigi A. Palleschi, P.E.  
**Title:** Professional Engineer, ABD Engineers, LLP  
**Date:** \_\_\_\_\_



**9.0 OWNER'S CERTIFICATION**

MIXED USE BUILDING  
97-99 Twenty West Drive  
Town of Guilderland  
Albany County, New York

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 gathered and evaluated 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 false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

The Owner also certifies that all appropriate stormwater control measures will be in place before commencement of construction of any segment of the project that requires such measures.

**Signature:** \_\_\_\_\_

**Name (printed):** \_\_\_\_\_

**Company Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_  
\_\_\_\_\_

**Telephone No:** \_\_\_\_\_

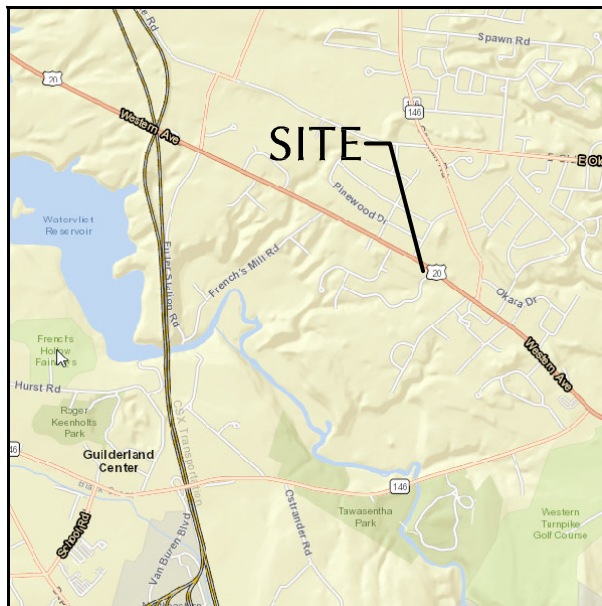
**Title/Responsible For:** \_\_\_\_\_

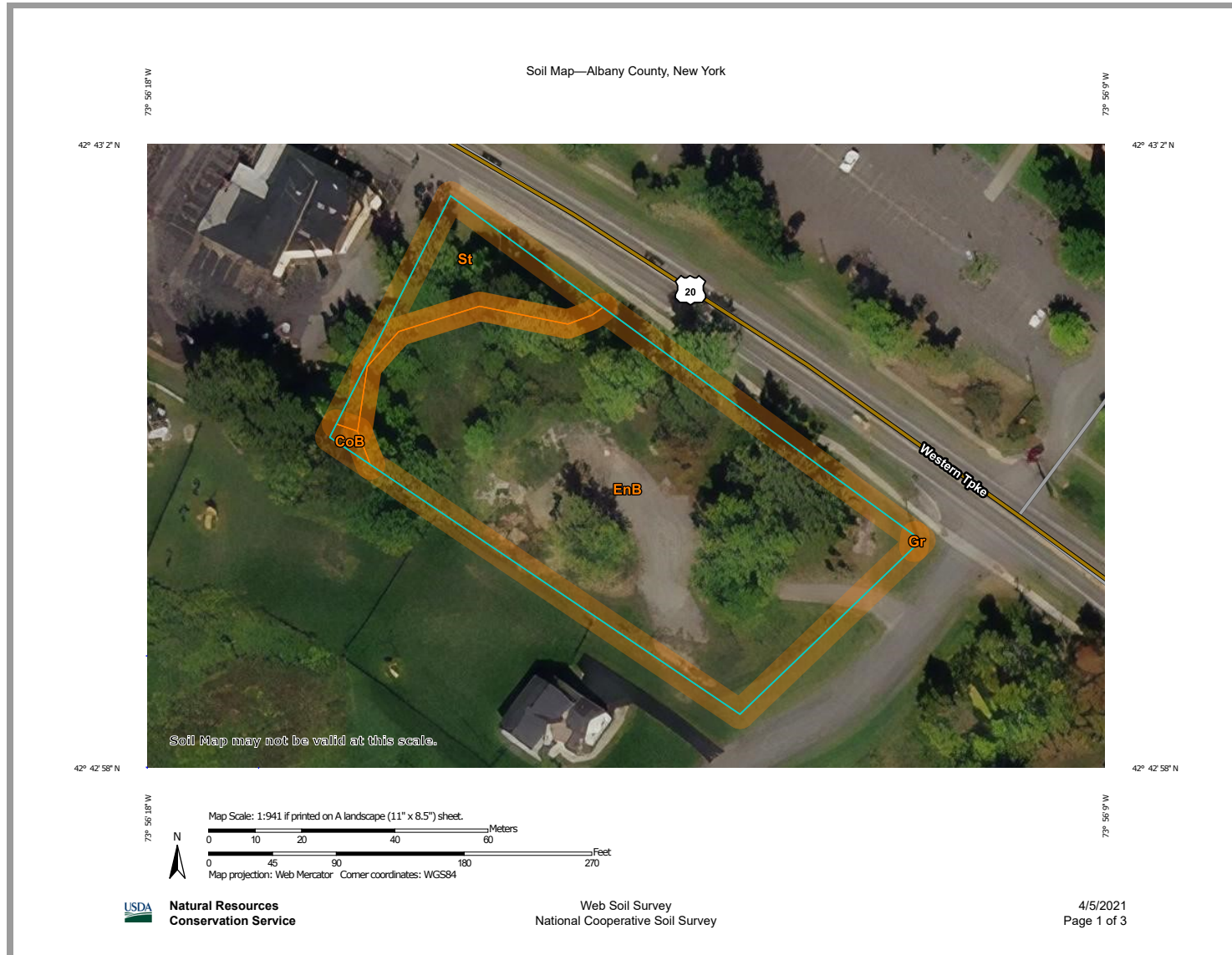
**Certification Date:** \_\_\_\_\_

**10.0 CONTRACTOR'S CERTIFICATION**





































_____ NYR _____		
Name of Construction Site	DEC Permit ID	Municipality (MS4)
<p>"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit 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"</p>		
_____		_____
Responsible Corporate Officer/Partner Signature		Date
_____		_____
Name of above Signatory		Name of Company
_____		_____
Title of above Signatory		Mailing Address
_____		_____
Telephone of Company		City, State and Zip
<p><b>Identify the specific elements of the SWPPP, the contractor or subcontractor is responsible for:</b></p>		
<p><b>'TRAINED CONTRACTOR' FOR THE CERTIFIED CONTRACTOR OR SUBCONTRACTOR</b></p>		
_____		_____
Name of Trained Employee	Title of Trained Employee	NYSDEC SWT#

**EXHIBIT 1  
SITE LOCATION MAP  
& SOIL INFORMATION**





Soil Map—Albany County, New York

MAP LEGEND		MAP INFORMATION	
<b>Area of Interest (AOI)</b>			
	Area of Interest (AOI)		
<b>Soils</b>			
	Soil Map Unit Polygons		
	Soil Map Unit Lines		
	Soil Map Unit Points		
<b>Special Point Features</b>			
	Blowout		Spoil Area
	Borrow Pit		Stony Spot
	Clay Spot		Very Stony Spot
	Closed Depression		Wet Spot
	Gravel Pit		Other
	Gravelly Spot		Special Line Features
	Landfill		
	Lava Flow	<b>Water Features</b>	
	Marsh or swamp		Streams and Canals
	Mine or Quarry	<b>Transportation</b>	
	Miscellaneous Water		Rails
	Perennial Water		Interstate Highways
	Rock Outcrop		US Routes
	Saline Spot		Major Roads
	Sandy Spot		Local Roads
	Severely Eroded Spot	<b>Background</b>	
	Sinkhole		Aerial Photography
	Slide or Slip		
	Sodic Spot		

**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.

The soil surveys that comprise your AOI were mapped at 1:15,800.

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: Albany County, New York  
 Survey Area Data: Version 18, Jun 11, 2020

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

Date(s) aerial images were photographed: Apr 16, 2009—Oct 19, 2017

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.

Soil Map—Albany County, New York

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CoB	Colonie loamy fine sand, 3 to 8 percent slopes	0.0	0.5%
EnB	Elnora loamy fine sand, 3 to 8 percent slopes	1.4	88.7%
Gr	Granby loamy fine sand	0.0	0.0%
St	Stafford loamy fine sand	0.2	10.8%
<b>Totals for Area of Interest</b>		<b>1.6</b>	<b>100.0%</b>

Map Unit Description: Elnora loamy fine sand, 3 to 8 percent slopes---Albany County, New York

---

## Albany County, New York

### EnB—Elnora loamy fine sand, 3 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* 9pfp  
*Elevation:* 80 to 440 feet  
*Mean annual precipitation:* 36 to 41 inches  
*Mean annual air temperature:* 45 to 48 degrees F  
*Frost-free period:* 100 to 170 days  
*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Elnora and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Elnora

##### Setting

*Landform:* Beach ridges, deltas  
*Landform position (two-dimensional):* Summit  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Concave  
*Across-slope shape:* Convex  
*Parent material:* Sandy glaciofluvial, eolian, or deltaic deposits

##### Typical profile

*H1 - 0 to 11 inches:* loamy fine sand  
*H2 - 11 to 27 inches:* fine sand  
*H3 - 27 to 65 inches:* loamy fine sand

##### Properties and qualities

*Slope:* 3 to 8 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Moderately well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* High  
 (1.98 to 5.95 in/hr)  
*Depth to water table:* About 18 to 24 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water capacity:* Low (about 4.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 2w  
*Hydrologic Soil Group:* A/D  
*Ecological site:* F144AY027MA - Moist Sandy Outwash  
*Hydric soil rating:* No

Map Unit Description: Elnora loamy fine sand, 3 to 8 percent slopes---Albany County, New York

---

**Minor Components**

**Colonie**

*Percent of map unit: 5 percent*  
*Hydric soil rating: No*

**Stafford**

*Percent of map unit: 5 percent*  
*Hydric soil rating: No*

**Unnamed soils**

*Percent of map unit: 4 percent*

**Granby**

*Percent of map unit: 1 percent*  
*Landform: Depressions*  
*Hydric soil rating: Yes*

**Data Source Information**

Soil Survey Area: Albany County, New York  
Survey Area Data: Version 18, Jun 11, 2020

Map Unit Description: Stafford loamy fine sand---Albany County, New York

---

## Albany County, New York

### St—Stafford loamy fine sand

#### Map Unit Setting

*National map unit symbol:* 9phr  
*Elevation:* 130 to 430 feet  
*Mean annual precipitation:* 36 to 41 inches  
*Mean annual air temperature:* 45 to 48 degrees F  
*Frost-free period:* 100 to 170 days  
*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Stafford and similar soils:* 80 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Stafford

##### Setting

*Landform:* Beach ridges, deltas  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Parent material:* Sandy glaciofluvial or glaciolacustrine deposits

##### Typical profile

*H1 - 0 to 12 inches:* loamy fine sand  
*H2 - 12 to 30 inches:* loamy fine sand  
*H3 - 30 to 60 inches:* fine sand

##### 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):* High to very high (1.98 to 19.98 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water capacity:* Low (about 3.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* A/D  
*Hydric soil rating:* No

Map Unit Description: Stafford loamy fine sand---Albany County, New York

---

**Minor Components**

**Colonie**

*Percent of map unit: 5 percent*  
*Hydric soil rating: No*

**Unnamed soils**

*Percent of map unit: 5 percent*

**Elnora**

*Percent of map unit: 5 percent*  
*Hydric soil rating: No*

**Granby**

*Percent of map unit: 5 percent*  
*Landform: Depressions*  
*Hydric soil rating: Yes*

**Data Source Information**

Soil Survey Area: Albany County, New York  
Survey Area Data: Version 18, Jun 11, 2020

**APPENDIX A**  
**SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES**  
**FROM CONSTRUCTION ACTIVITY**



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

From  
**CONSTRUCTION ACTIVITY**

Permit No. GP- 0-20-001  
Issued Pursuant to Article 17, Titles 7, 8 and Article 70  
of the Environmental Conservation Law

**PREFACE**

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater discharges from certain construction activities are unlawful unless they are authorized by a National Pollutant Discharge Elimination System ("NPDES") permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An owner or operator of a construction activity that is eligible for coverage under this permit must obtain coverage prior to the commencement of construction activity. Activities that fit the definition of "construction activity", as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a point source and therefore, pursuant to ECL section 17-0505 and 17-0701, the owner or operator must have coverage under a SPDES permit prior to commencing construction activity. The owner or operator cannot wait until there is an actual discharge from the construction site to obtain permit coverage.

**\*Note: The italicized words/phrases within this permit are defined in Appendix A.**

Effective Date: January 29, 2020      Expiration Date: January 28, 2025

John J. Ferguson  
Chief Permit Administrator

 1-23-20  
Authorized Signature      Date

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

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

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**Part 1. PERMIT COVERAGE AND LIMITATIONS**

(Part I)

**A. Permit Application**

This permit authorizes stormwater discharges to surface waters of the State from the following construction activities identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. Construction activities involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a larger common plan of development or sale that will ultimately disturb one or more acres of land; excluding routine maintenance activity that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;
2. Construction activities involving soil disturbances of less than one (1) acre where the Department has determined that a SPDES permit is required for stormwater discharges based on the potential for contribution to a violation of a water quality standard or for significant contribution of pollutants to surface waters of the State.
3. Construction activities located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

**B. Effluent Limitations Applicable to Discharges from Construction Activities**

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The owner or operator must select, design, install, implement and maintain control measures to minimize the discharge of pollutants and prevent a violation of the water quality standards. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1. (a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the owner or operator must include in the Stormwater Pollution Prevention Plan ("SWPPP") the reason(s) for the

1

(Part I.B.1)  
deviation or alternative design and provide information which demonstrates that the deviation or alternative design is equivalent to the technical standard.

- a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to minimize the discharge of pollutants and prevent a violation of the water quality standards. At a minimum, such controls must be designed, installed and maintained to:

- (i) Minimize soil erosion through application of runoff control and soil stabilization control measure to minimize pollutant discharges;
- (ii) Control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of the discharge points;
- (iii) Minimize the amount of soil exposed during construction activity;
- (iv) Minimize the disturbance of steep slopes;
- (v) Minimize sediment discharges from the site;
- (vi) Provide and maintain natural buffers around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible;
- (vii) Minimize soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;
- (viii) Unless infeasible, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and
- (ix) Minimize dust. On areas of exposed soil, minimize dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.

- b. **Soil Stabilization.** In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that directly discharge to one of the 303(d) segments

2

(Part I.B.1.b)  
listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of Temporarily Ceased.

- c. **Dewatering.** Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, must be managed by appropriate control measures.
- d. **Pollution Prevention Measures.** Design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants and prevent a violation of the water quality standards. At a minimum, such measures must be designed, installed, implemented and maintained to:
  - (i) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;
  - (ii) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use); and
  - (iii) Prevent the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.
- e. **Prohibited Discharges.** The following discharges are prohibited:
  - (i) Wastewater from washout of concrete;
  - (ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

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- (iii) Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
- (iv) Soaps or solvents used in vehicle and equipment washing; and
- (v) Toxic or hazardous substances from a spill or other release.
- f. **Surface Outlets.** When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

**C. Post-construction Stormwater Management Practice Requirements**

1. The owner or operator of a construction activity that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the performance criteria in the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices ("SMPs") are not designed in conformance with the performance criteria in the Design Manual, the owner or operator must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is equivalent to the technical standard.
2. The owner or operator of a construction activity that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable sizing criteria in Part I.C.2.a., b., c. or d. of this permit.

**a. Sizing Criteria for New Development**

- (i) **Runoff Reduction Volume ("RRV").** Reduce the total Water Quality Volume ("WQV") by application of RR techniques and standard SMPs with RRV capacity. The total WQV shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.
- (ii) **Minimum RRV and Treatment of Remaining Total WQV:** Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRV capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQV shall be documented in the SWPPP.

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(Part I.C.2.a.ii)

For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

**In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual.** The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume ("Cpv"): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
  - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
  - (2) The site discharges directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria ("Op"): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Op) to predevelopment rates. The Op requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that overbank control is not required.
- (v) Extreme Flood Control Criteria ("Of"): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Of) to predevelopment rates. The Of requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that overbank control is not required.

**b. Sizing Criteria for New Development in Enhanced Phosphorus Removal Watershed**

- (i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be

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(Part I.C.2.b.i)

calculated in accordance with the criteria in Section 10.3 of the Design Manual.

- (ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.
 

**In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual.** The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.
- (iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
  - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
  - (2) The site discharges directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria (Op): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Op) to predevelopment rates. The Op requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that overbank control is not required.
- (v) Extreme Flood Control Criteria (Of): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Of) to predevelopment rates. The Of requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that overbank control is not required.

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(Part I.C.2.c)

**c. Sizing Criteria for Redevelopment Activity**

- (i) Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* shall be addressed by one of the following options. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other *redevelopment activities* shall calculate the WQv in accordance with Section 4.2 of the Design Manual.
  - (1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or
  - (2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRv capacity, or
  - (3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual, or
  - (4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 – 4 above.
- (ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the discharge rate from the project site.
- (iii) Overbank Flood Control Criteria (Op): Not required if there are no changes to hydrology that increase the discharge rate from the project site.
- (iv) Extreme Flood Control Criteria (Of): Not required if there are no changes to hydrology that increase the discharge rate from the project site

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(Part I.C.2.d)

**d. Sizing Criteria for Combination of Redevelopment Activity and New Development**

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

**D. Maintaining Water Quality**

The Department expects that compliance with the conditions of this permit will control discharges necessary to meet applicable *water quality standards*. It shall be a violation of the ECL for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;
2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and
3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater discharges authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the owner or operator must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the owner or operator may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater discharges authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized discharges will no longer be eligible for coverage under this permit. The Department may require the owner or operator to obtain an individual SPDES permit to continue discharging.

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**E. Eligibility Under This General Permit**

(Part I.E)

1. This permit may authorize all discharges of stormwater from construction activity to surface waters of the State and groundwaters except for ineligible discharges identified under subparagraph F. of this Part.
2. Except for non-stormwater discharges explicitly listed in the next paragraph, this permit only authorizes stormwater discharges, including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from construction activities.
3. Notwithstanding paragraphs E. 1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated discharges from construction site de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the owner or operator must still comply with water quality standards in Part I.D of this permit.
4. The owner or operator must maintain permit eligibility to discharge under this permit. Any discharges that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the owner or operator must either apply for a separate permit to cover those ineligible discharges or take steps necessary to make the discharge eligible for coverage.

**F. Activities Which Are Ineligible for Coverage Under This General Permit**

All of the following are **not** authorized by this permit:

1. Discharges after construction activities have been completed and the site has undergone final stabilization;
2. Discharges that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;
3. Discharges that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;
4. Construction activities or discharges from construction activities that may adversely affect an endangered or threatened species unless the owner or

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operator has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

(Part I.F.4)

5. Discharges which either cause or contribute to a violation of water quality standards adopted pursuant to the ECL and its accompanying regulations;
6. Construction activities for residential, commercial and institutional projects:
  - a. Where the discharges from the construction activities are tributary to waters of the state classified as AA or AA-s; and
  - b. Which are undertaken on land with no existing impervious cover; and
  - c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.
7. Construction activities for linear transportation projects and linear utility projects:
  - a. Where the discharges from the construction activities are tributary to waters of the state classified as AA or AA-s; and
  - b. Which are undertaken on land with no existing impervious cover; and
  - c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase "D" (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.

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8. Construction activities that have the potential to affect an historic property, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:

(Part I.F.8)

- a. Documentation that the construction activity is not within an archeologically sensitive area indicated on the sensitivity map, and that the construction activity is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the construction site within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the construction site within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.
  - 1-5 acres of disturbance - 20 feet
  - 5-20 acres of disturbance - 50 feet
  - 20+ acres of disturbance - 100 feet, or
- b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
  - (i) the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
  - (ii) documentation from OPRHP that the construction activity will result in No Impact; or
  - (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
  - (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this construction activity to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or
- c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area.

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- (i) No Affect
- (ii) No Adverse Affect
- (iii) Executed Memorandum of Agreement, or
- d. Documentation that:
  - (i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.
9. Discharges from construction activities that are subject to an existing SPDES individual or general permit where a SPDES permit for construction activity has been terminated or denied; or where the owner or operator has failed to renew an expired individual permit.

(Part I.F.8.c)

**Part II. PERMIT COVERAGE**

**A. How to Obtain Coverage**

1. An owner or operator of a construction activity that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.
2. An owner or operator of a construction activity that is subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the regulated, traditional land use control MS4 prior to submitting the NOI to the Department. The owner or operator shall have the "MS4 SWPPP Acceptance" form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.
3. The requirement for an owner or operator to have its SWPPP reviewed and accepted by the regulated, traditional land use control MS4 prior to submitting the NOI to the Department does not apply to an owner or operator that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of Owner or Operator) or where the owner or operator of the construction activity is the regulated, traditional land use control MS4. This exemption does not apply to construction activities subject to the New York City Administrative Code.

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**B. Notice of Intent (NOI) Submittal**

(Part II.B)

1. Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (<http://www.dec.ny.gov/>). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:  
  

**NOTICE OF INTENT**  
**NYS DEC, Bureau of Water Permits**  
 625 Broadway, 4<sup>th</sup> Floor  
 Albany, New York 12233-3505
2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the owner or operator must submit the NOI electronically using the Department's online NOI.
3. The owner or operator shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.
4. As of the date the NOI is submitted to the Department, the owner or operator shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

**C. Permit Authorization**

1. An owner or operator shall not commence construction activity until their authorization to discharge under this permit goes into effect.
2. Authorization to discharge under this permit will be effective when the owner or operator has satisfied all of the following criteria:
  - a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (<http://www.dec.ny.gov/>) for more information,
  - b. where required, all necessary Department permits subject to the Uniform Procedures Act ("UPA") (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). Owners or operators of construction activities that are required to obtain UPA permits

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(Part II.C.2.b)  
 must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary UPA permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the construction activity qualifies for authorization under this permit,

- c. the final SWPPP has been prepared, and
- d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.
3. An owner or operator that has satisfied the requirements of Part II.C.2 above will be authorized to discharge stormwater from their construction activity in accordance with the following schedule:
  - a. For construction activities that are not subject to the requirements of a regulated, traditional land use control MS4:
    - (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for construction activities with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the performance criteria in the technical standard referenced in Parts III.B., 2 or 3, for construction activities that require post-construction stormwater management practices pursuant to Part III.C.; or
    - (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for construction activities with a SWPPP that has not been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for construction activities that require post-construction stormwater management practices pursuant to Part III.C., the performance criteria in the technical standard referenced in Parts III.B., 2 or 3, or;
    - (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for construction activities with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the performance criteria in the technical standard referenced in Parts III.B., 2 or 3, for construction activities that require post-construction stormwater management practices pursuant to Part III.C.

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**D. General Requirements For Owners or Operators With Permit Coverage**

1. The owner or operator shall ensure that the provisions of the SWPPP are implemented from the commencement of construction activity until all areas of disturbance have achieved final stabilization and the Notice of Termination ("NOT") has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.
2. The owner or operator shall maintain a copy of the General Permit (GP-0-20-001), NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor's or subcontractor's certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the construction site until all disturbed areas have achieved final stabilization and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.
3. The owner or operator of a construction activity shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a regulated, traditional land

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(Part II.D.3)  
 use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity). At a minimum, the owner or operator must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:

- a. The owner or operator shall have a qualified inspector conduct at least two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.
- c. The owner or operator shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
- d. The owner or operator shall install any additional site-specific practices needed to protect water quality.
- e. The owner or operator shall include the requirements above in their SWPPP.
4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an owner's or operator's coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..
5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the owner or operator.
6. For construction activities that are subject to the requirements of a regulated, traditional land use control MS4, the owner or operator shall notify the

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<p style="text-align: right;">(Part II.D.6)</p> <p><i>regulated, traditional land use control MS4</i> in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the <i>regulated, traditional land use control MS4</i>, the <i>owner or operator</i> shall have the SWPPP amendments or modifications reviewed and accepted by the <i>regulated, traditional land use control MS4</i> prior to commencing construction of the post-construction stormwater management practice.</p> <p><b>E. Permit Coverage for Discharges Authorized Under GP-0-15-002</b></p> <p>1. Upon renewal of SPDES General Permit for Stormwater Discharges from Construction Activity (Permit No. GP-0-15-002), an <i>owner or operator</i> of a construction activity with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to discharge in accordance with GP- 0-20-001, unless otherwise notified by the Department.</p> <p>An <i>owner or operator</i> may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.</p> <p><b>F. Change of Owner or Operator</b></p> <p>1. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original <i>owner or operator</i> must notify the new <i>owner or operator</i>, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For construction activities subject to the requirements of a <i>regulated, traditional land use control MS4</i>, the original <i>owner or operator</i> must also notify the <i>MS4</i>, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.</p> <p>2. Once the new <i>owner or operator</i> obtains permit coverage, the original <i>owner or operator</i> shall then submit a completed NOI with the name and permit identification number of the new <i>owner or operator</i> to the Department at the address in Part II.B.1. of this permit. If the original <i>owner or operator</i> maintains ownership of a portion of the construction activity and will disturb soil, they must maintain their coverage under the permit.</p> <p>3. Permit coverage for the new <i>owner or operator</i> will be effective as of the date the Department receives a complete NOI, provided the original <i>owner or</i></p> <p style="text-align: center;">17</p>	<p style="text-align: right;">(Part II.F.3)</p> <p><i>operator</i> was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new <i>owner or operator</i>.</p> <p><b>Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)</b></p> <p><b>A. General SWPPP Requirements</b></p> <p>1. A SWPPP shall be prepared and implemented by the <i>owner or operator</i> of each construction activity covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the commencement of construction activity. A copy of the completed, final NOI shall be included in the SWPPP.</p> <p>2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the pollutants in stormwater discharges and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharges.</p> <p>3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a <i>qualified professional</i> that is knowledgeable in the principles and practices of stormwater management and treatment.</p> <p>4. The <i>owner or operator</i> must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the <i>owner or operator</i> shall amend the SWPPP, including construction drawings:</p> <p>a. whenever the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the site;</p> <p style="text-align: center;">18</p>
<p style="text-align: right;">(Part III.A.4.b)</p> <p>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;</p> <p>c. to address issues or deficiencies identified during an inspection by the <i>qualified inspector</i>, the Department or other regulatory authority; and</p> <p>d. to document the final construction conditions.</p> <p>5. The Department may notify the <i>owner or operator</i> at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the <i>owner or operator</i> shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the <i>owner or operator</i> does not respond to the Department's comments in the specified time frame, the Department may suspend the <i>owner's or operator's</i> coverage under this permit or require the <i>owner or operator</i> to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.</p> <p>6. Prior to the commencement of construction activity, the <i>owner or operator</i> must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The <i>owner or operator</i> shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the <i>trained contractor</i>. The <i>owner or operator</i> shall ensure that at least one <i>trained contractor</i> is on site on a daily basis when soil disturbance activities are being performed.</p> <p>The <i>owner or operator</i> shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any construction activity:</p> <p>"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the <i>qualified inspector</i> during a site inspection. I also understand that the <i>owner or operator</i> must comply with</p> <p style="text-align: center;">19</p>	<p style="text-align: right;">(Part III.A.6)</p> <p>the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit 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"</p> <p>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 <i>trained contractor</i> 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 <i>owner or operator</i> shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the construction site. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.</p> <p>7. For projects where the Department requests a copy of the SWPPP or inspection reports, the <i>owner or operator</i> shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.</p> <p><b>B. Required SWPPP Contents</b></p> <p>1. Erosion and sediment control component - All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the <i>owner or operator</i> must demonstrate equivalence to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:</p> <p>a. Background information about the scope of the project, including the location, type and size of project</p> <p style="text-align: center;">20</p>

(Part III.B.1.b)

b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours ; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge*(s);

c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);

d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;

e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;

f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;

g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;

h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;

i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection

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(Part III.B.2.b)

b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;

c. A Stormwater Modeling and Analysis Report that includes:

(i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;

(ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;

(iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;

(iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;

(v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and

(vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;

d. Soil testing results and locations (test pits, borings);

e. Infiltration test results, when required; and

f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

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(Part III.B.1)

schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;

k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and

l. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. Post-construction stormwater management practice component – The *owner or operator* of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable *sizing criteria* in Part I.C.2.a., c. or d. of this permit and the *performance criteria* in the technical standard, New York State Stormwater Management Design Manual dated January 2015

Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

The post-construction stormwater management practice component of the SWPPP shall include the following:

a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria*. Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

**C. Required SWPPP Components by Project Type**

Unless otherwise notified by the Department, *owners or operators of construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators of the construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

**Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS**

**A. General Construction Site Inspection and Maintenance Requirements**

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.

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

**B. Contractor Maintenance Inspection Requirements**

1. The *owner or operator* of each *construction activity* identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

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(Part III.B.3)

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(Part IV.B.1)

begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the trained contractor can stop conducting the maintenance inspections. The trained contractor shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.
3. For construction sites where soil disturbance activities have been shut down with partial project completion, the trained contractor can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

**C. Qualified Inspector Inspection Requirements**

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

[Note: The trained contractor identified in Part III.A.6. and IV.B. of this permit cannot conduct the qualified inspector site inspections unless they meet the qualified inspector qualifications included in Appendix A. In order to perform these inspections, the trained contractor would have to be:

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

1. A qualified inspector shall conduct site inspections for all construction activities identified in Tables 1 and 2 of Appendix B, with the exception of:
  - a. the construction of a single family residential subdivision with 25% or less impervious cover at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located

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(Part IV.C.1.a)

- b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;
- c. construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and
- d. construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

2. Unless otherwise notified by the Department, the qualified inspector shall conduct site inspections in accordance with the following timetable:
  - a. For construction sites where soil disturbance activities are on-going, the qualified inspector shall conduct a site inspection at least once every seven (7) calendar days.
  - b. For construction sites where soil disturbance activities are on-going and the owner or operator has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the qualified inspector shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
  - c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the qualified inspector shall conduct a site inspection at least once every thirty (30) calendar days. The owner or operator shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity) in writing prior to reducing the frequency of inspections.

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(Part IV.C.2.d)

- d. For construction sites where soil disturbance activities have been shut down with partial project completion, the qualified inspector can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The owner or operator shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the owner or operator shall have the qualified inspector perform a final inspection and certify that all disturbed areas have achieved final stabilization, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The owner or operator shall then submit the completed NOT form to the address in Part II.B.1 of this permit.
- e. For construction sites that directly discharge to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the qualified inspector shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

3. At a minimum, the qualified inspector shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved final stabilization, all points of discharge to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site, and all points of discharge from the construction site.
4. The qualified inspector shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

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(Part IV.C.4.a)

- a. Date and time of inspection;
- b. Name and title of person(s) performing inspection;
- c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;
- d. A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;
- e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody;
- f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;
- g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;
- h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;
- i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;
- j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);
- k. Identification and status of all corrective actions that were required by previous inspection; and

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<p style="text-align: center;">(Part IV.C.4.)</p> <ol style="list-style-type: none"> <li>i. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The <i>qualified inspector</i> 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 <i>qualified inspector</i> 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 <i>qualified inspector</i> 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.</li> <li>5. Within one business day of the completion of an inspection, the <i>qualified inspector</i> shall notify the <i>owner or operator</i> and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.</li> <li>6. All inspection reports shall be signed by the <i>qualified inspector</i>. Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.</li> </ol> <p><b>Part V. TERMINATION OF PERMIT COVERAGE</b></p> <p><b>A. Termination of Permit Coverage</b></p> <ol style="list-style-type: none"> <li>1. An <i>owner or operator</i> that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.B.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.</li> <li>2. An <i>owner or operator</i> may terminate coverage when one or more the following conditions have been met:             <ol style="list-style-type: none"> <li>a. Total project completion - All construction activity identified in the SWPPP has been completed; and all areas of disturbance have achieved <i>final stabilization</i>; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;</li> </ol> </li> </ol> <p style="text-align: center;">29</p>	<p style="text-align: center;">(Part V.A.2.b)</p> <ol style="list-style-type: none"> <li>b. Planned shutdown with partial project completion - All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved <i>final stabilization</i>; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;</li> <li>c. A new <i>owner or operator</i> has obtained coverage under this permit in accordance with Part II.F. of this permit.</li> <li>d. The <i>owner or operator</i> obtains coverage under an alternative SPDES general permit or an individual SPDES permit.</li> </ol> <ol style="list-style-type: none"> <li>3. For construction activities meeting subdivision 2a. or 2b. of this Part, the <i>owner or operator</i> shall have the <i>qualified inspector</i> perform a final site inspection prior to submitting the NOT. The <i>qualified inspector</i> shall, by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.</li> <li>4. For construction activities that are subject to the requirements of a <i>regulated, traditional land use control MS4</i> and meet subdivision 2a. or 2b. of this Part, the <i>owner or operator</i> shall have the <i>regulated, traditional land use control MS4</i> sign the "MS4 Acceptance" statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The <i>regulated, traditional land use control MS4</i> official, by signing this statement, has determined that it is acceptable for the <i>owner or operator</i> to submit the NOT in accordance with the requirements of this Part. The <i>regulated, traditional land use control MS4</i> can make this determination by performing a final site inspection themselves or by accepting the <i>qualified inspector's</i> final site inspection certification(s) required in Part V.A.3. of this permit.</li> <li>5. For construction activities that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the <i>owner or operator</i> must, prior to submitting the NOT, ensure one of the following:             <ol style="list-style-type: none"> <li>a. the post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,</li> </ol> </li> </ol> <p style="text-align: center;">30</p>
<p style="text-align: center;">(Part V.A.5.b)</p> <ol style="list-style-type: none"> <li>b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),</li> <li>c. for post-construction stormwater management practices that are privately owned, the <i>owner or operator</i> 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 <i>owner or operator's</i> deed of record,</li> <li>d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the <i>owner or operator</i> has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.</li> </ol> <p><b>Part VI. REPORTING AND RETENTION RECORDS</b></p> <p><b>A. Record Retention</b></p> <p>The <i>owner or operator</i> shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.</p> <p><b>B. Addresses</b></p> <p>With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.</p> <p><b>Part VII. STANDARD PERMIT CONDITIONS</b></p> <p><b>A. Duty to Comply</b></p> <p>The <i>owner or operator</i> must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water</p> <p style="text-align: center;">31</p>	<p style="text-align: center;">(Part VII.A)</p> <p>Act (CWA) and the ECL and is grounds for an enforcement action against the <i>owner or operator</i> and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all construction activity at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the <i>owner or operator</i>.</p> <p>If any human remains or archaeological remains are encountered during excavation, the <i>owner or operator</i> must immediately cease, or cause to cease, all construction activity in the area of the remains and notify the appropriate Regional Water Engineer (RWE). Construction activity shall not resume until written permission to do so has been received from the RWE.</p> <p><b>B. Continuation of the Expired General Permit</b></p> <p>This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an <i>owner or operator</i> with coverage under this permit may continue to operate and discharge in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.</p> <p><b>C. Enforcement</b></p> <p>Failure of the <i>owner or operator</i>, its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.</p> <p><b>D. Need to Halt or Reduce Activity Not a Defense</b></p> <p>It shall not be a defense for an <i>owner or operator</i> in an enforcement action that it would have been necessary to halt or reduce the construction activity in order to maintain compliance with the conditions of this permit.</p> <p style="text-align: center;">32</p>

**E. Duty to Mitigate**

(Part VII.E)

The owner or operator and its contractors and subcontractors shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

**F. Duty to Provide Information**

The owner or operator shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the owner or operator must make available for review and copying by any person within five (5) business days of the owner or operator receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

**G. Other Information**

When the owner or operator becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit, or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or impervious area), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the owner or operator to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

**H. Signatory Requirements**

1. All NOIs and NOTs shall be signed as follows:
  - a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

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**I. Property Rights**

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. Owners or operators must obtain any applicable conveyances, easements, licenses and/or access to real property prior to commencing construction activity.

3. All inspection reports shall be signed by the qualified inspector that performs the inspection.
4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the regulated, traditional land use control MS4, or by a duly authorized representative of that person.

It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

**J. Severability**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

**K. Requirement to Obtain Coverage Under an Alternative Permit**

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

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- (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

- (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

- b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or

- c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

- (i) the chief executive officer of the agency, or
- (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;
- b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

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include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to discharge under a general SPDES permit for the same discharge(s), the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

**L. Proper Operation and Maintenance**

The owner or operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appearances) which are installed or used by the owner or operator to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

**M. Inspection and Entry**

The owner or operator shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a construction site which discharges through an MS4, an authorized representative of the MS4 receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the owner's or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

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(Part VII.M.3)

3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.

4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

**N. Permit Actions**

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

**O. Definitions**

Definitions of key terms are included in Appendix A of this permit.

**P. Re-Opener Clause**

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.
2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

**Q. Penalties for Falsification of Forms and Reports**

In accordance with 6 NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

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(Part VII.R)

**R. Other Permits**

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

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**APPENDIX A – Acronyms and Definitions**

**Acronyms**

APO – Agency Preservation Officer  
 BMP – Best Management Practice  
 CPESC – Certified Professional in Erosion and Sediment Control  
 Cpv – Channel Protection Volume  
 CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq.)  
 DOW – Division of Water  
 EAF – Environmental Assessment Form  
 ECL – Environmental Conservation Law  
 EPA – U. S. Environmental Protection Agency  
 HSG – Hydrologic Soil Group  
 MS4 – Municipal Separate Storm Sewer System  
 NOI – Notice of Intent  
 NOT – Notice of Termination  
 NPDES – National Pollutant Discharge Elimination System  
 OPRHP – Office of Parks, Recreation and Historic Places  
 Qf – Extreme Flood  
 Qp – Overbank Flood  
 RRv – Runoff Reduction Volume  
 RWE – Regional Water Engineer  
 SEQRA – State Environmental Quality Review Act  
 SEQR – State Environmental Quality Review Act  
 SHPA – State Historic Preservation Act  
 SPDES – State Pollutant Discharge Elimination System  
 SWPPP – Stormwater Pollution Prevention Plan  
 TMDL – Total Maximum Daily Load  
 UPA – Uniform Procedures Act  
 USDA – United States Department of Agriculture  
 WQv – Water Quality Volume

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**Definitions**

All definitions in this section are solely for the purposes of this permit.

**Agricultural Building** – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

**Agricultural Property** – means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

**Alter Hydrology from Pre to Post-Development Conditions** - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

**Combined Sewer** - means a sewer that is designed to collect and convey both "sewage" and "stormwater".

**Commence (Commencement of) Construction Activities** - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for "Construction Activity(ies)" also.

**Construction Activity(ies)** - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

**Construction Site** – means the land area where construction activity(ies) will occur. See definition for "Commence (Commencement of) Construction Activities" and "Larger Common Plan of Development or Sale" also.

**Dewatering** – means the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

**Direct Discharge (to a specific surface waterbody)** - means that runoff flows from a construction site by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a construction site to a separate storm sewer system

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and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

**Discharge(s)** - means any addition of any pollutant to waters of the State through an outlet or *point source*.

**Embankment** - means an earthen or rock slope that supports a road/highway.

**Endangered or Threatened Species** - see 6 NYCRR Part 182 of the Department's rules and regulations for definition of terms and requirements.

**Environmental Conservation Law (ECL)** - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

**Equivalent (Equivalence)** - means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

**Final Stabilization** - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

**General SPDES permit** - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

**Groundwater(s)** - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

**Historic Property** - means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

**Impervious Area (Cover)** - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

**Infeasible** - means not technologically possible, or not economically practicable and achievable in light of best industry practices.

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**New York State Erosion and Sediment Control Certificate Program** - a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

**NOI Acknowledgment Letter** - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from construction activity.

**Nonpoint Source** - means any source of water pollution or pollutants which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

**Overbank** - means flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

**Owner or Operator** - means the person, persons or legal entity which owns or leases the property on which the construction activity is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

**Performance Criteria** - means the design criteria listed under the "Required Elements" sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

**Point Source** - means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which pollutants are or may be discharged.

**Pollutant** - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq.

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**Larger Common Plan of Development or Sale** - means a contiguous area where multiple separate and distinct construction activities are occurring, or will occur, under one plan. The term "plan" in "larger common plan of development or sale" is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that construction activities may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

**Minimize** - means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

**Municipal Separate Storm Sewer (MS4)** - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State;
- (ii) Designed or used for collecting or conveying stormwater;
- (iii) Which is not a *combined sewer*; and
- (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

**National Pollutant Discharge Elimination System (NPDES)** - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

**Natural Buffer** - means an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

**New Development** - means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

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**Qualified Inspector** - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

**Qualified Professional** - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

**Redevelopment Activity(ies)** - means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

**Regulated, Traditional Land Use Control MS4** - means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

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SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

**Routine Maintenance Activity** - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots.
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch.
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch).
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*.
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material.
- Long-term use of equipment storage areas at or near highway maintenance facilities.
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*.
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

**Site limitations** – means site conditions that prevent the use of an infiltration technique and/or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

**Sizing Criteria** – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include: Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank Flood* (Qp), and Extreme Flood (Qf).

**State Pollutant Discharge Elimination System (SPDES)** - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

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training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

**Uniform Procedures Act (UPA) Permit** - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

**Water Quality Standard** - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

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**Steep Slope** – means land area designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%) , or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

**Streambank** – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

**Stormwater Pollution Prevention Plan (SWPPP)** – means a project specific report, including construction drawings, that among other things: describes the construction activity(ies), identifies the potential sources of pollution at the *construction site*; describes and shows the stormwater controls that will be used to control the pollutants (i.e. erosion and sediment controls); for many projects, includes post-construction stormwater management controls; and identifies procedures the *owner or operator* will implement to comply with the terms and conditions of the permit. See Part III of the permit for a complete description of the information that must be included in the SWPPP.

**Surface Waters of the State** - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

**Temporarily Ceased** – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

**Temporary Stabilization** - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

**Total Maximum Daily Loads (TMDLs)** - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint* sources. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAS) for *point source* discharges, load allocations (LAs) for *nonpoint* sources, and a margin of safety (MOS).

**Trained Contractor** - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

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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**

<p><b>The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:</b></p> <ul style="list-style-type: none"> <li>• Single family home <u>not</u> located in one of the watersheds listed in Appendix C or <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E</li> <li>• Single family residential subdivisions with 25% or less impervious cover at total site build-out and <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E</li> <li>• Construction of a barn or other <i>agricultural building</i>, silo, stock yard or pen.</li> </ul>
<p><b>The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:</b></p> <p>All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.</p>
<p><b>The following construction activities that involve soil disturbances of one (1) or more acres of land:</b></p> <ul style="list-style-type: none"> <li>• Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains</li> <li>• Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects</li> <li>• Pond construction</li> <li>• Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover</li> <li>• Cross-country ski trails and walking/hiking trails</li> <li>• Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development;</li> <li>• Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path.</li> <li>• Slope stabilization projects</li> <li>• Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics</li> </ul>

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**Table 1 (Continued) CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP**

**THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS**

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that alter hydrology from pre to post development conditions.
- Athletic fields (natural grass) that do not include the construction or reconstruction of impervious area and do not alter hydrology from pre to post development conditions
- Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with impervious cover
- Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete

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**Table 2 CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES**

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Single family home located in one of the watersheds listed in Appendix C or directly discharging to one of the 303(d) segments listed in Appendix E
- Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or directly discharging to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or alter the hydrology from pre to post development conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other agricultural building (e.g. silo) and structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" that include the construction or reconstruction of impervious area, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW's, water treatment plants, and water storage tanks
- Office complexes
- Playgrounds that include the construction or reconstruction of impervious area
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

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**Table 2 (Continued)**

**CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES**

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or alter the hydrology from pre to post development conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with impervious cover, and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of impervious area or alter the hydrology from pre to post development conditions, and are not listed in Table 1

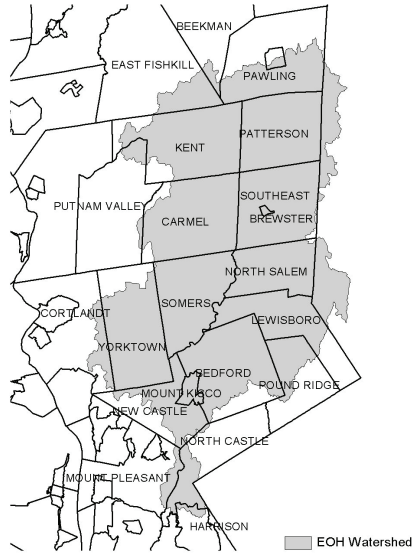
**APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal**

Watersheds where owners or operators of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual ("Design Manual").

- Entire New York City Watershed located east of the Hudson River - Figure 1
- Onondaga Lake Watershed - Figure 2
- Greenwood Lake Watershed - Figure 3
- Oscawana Lake Watershed - Figure 4
- Kinderhook Lake Watershed - Figure 5

**Figure 1 - New York City Watershed East of the Hudson**

Appendix C



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**Figure 2 - Onondaga Lake Watershed**

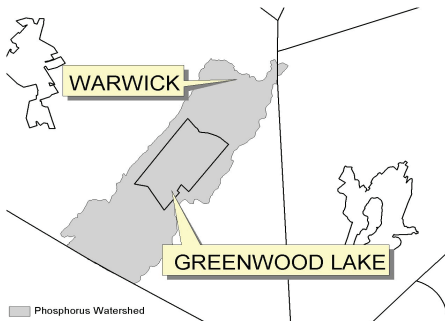
Appendix C



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**Figure 3 - Greenwood Lake Watershed**

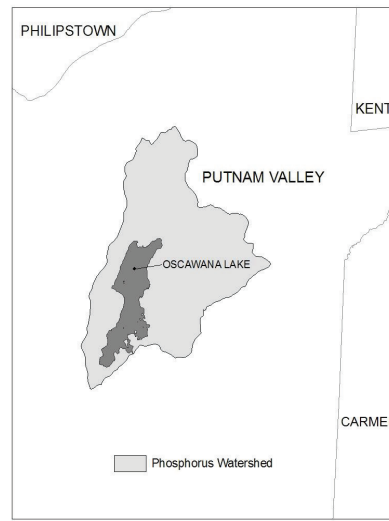
Appendix C



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**Figure 4 - Oscawana Lake Watershed**

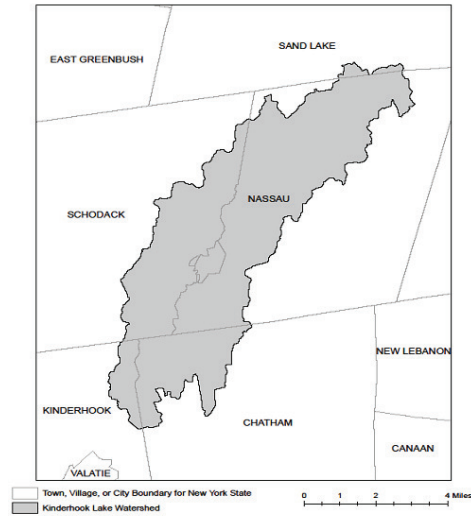
Appendix C



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Appendix C

Figure 5 - Kinderhook Lake Watershed



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APPENDIX D – Watersheds with Lower Disturbance Threshold

Watersheds where owners or operators of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River - See Figure 1 in Appendix C

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APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to construction activity (e.g. silt, sediment or nutrients). The list was developed using The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy dated November 2016. Owners or operators of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and directly discharge to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	POLLUTANT
Albany	Ann Lee (Shakers) Pond, Stump Pond	Nutrients
Albany	Basic Creek Reservoir	Nutrients
Allegany	Amity Lake, Saunders Pond	Nutrients
Bronx	Long Island Sound, Bronx	Nutrients
Bronx	Van Cortlandt Lake	Nutrients
Broome	Fly Pond, Deer Lake, Sky Lake	Nutrients
Broome	Minor Tribs to Lower Susquehanna (north)	Nutrients
Broome	Whitney Point Lake/Reservoir	Nutrients
Cattaraugus	Allegheny River/Reservoir	Nutrients
Cattaraugus	Beaver (Alma) Lake	Nutrients
Cattaraugus	Case Lake	Nutrients
Cattaraugus	Linyco/Club Pond	Nutrients
Cayuga	Duck Lake	Nutrients
Cayuga	Little Sodus Bay	Nutrients
Chautauqua	Bear Lake	Nutrients
Chautauqua	Chadakoin River and tribs	Nutrients
Chautauqua	Chautauqua Lake, North	Nutrients
Chautauqua	Chautauqua Lake, South	Nutrients
Chautauqua	Findley Lake	Nutrients
Chautauqua	Hulburt/Clymer Pond	Nutrients
Clinton	Great Chazy River, Lower, Main Stem	Silt/Sediment
Clinton	Lake Champlain, Main Lake, Middle	Nutrients
Clinton	Lake Champlain, Main Lake, North	Nutrients
Columbia	Kinderhook Lake	Nutrients
Columbia	Robinson Pond	Nutrients
Cortland	Dean Pond	Nutrients

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303(d) Segments Impaired by Construction Related Pollutant(s)

Dutchess	Fall Kill and tribs	Nutrients
Dutchess	Hillside Lake	Nutrients
Dutchess	Wappingers Lake	Nutrients
Dutchess	Wappingers Lake	Silt/Sediment
Erie	Beeman Creek and tribs	Nutrients
Erie	Ellicott Creek, Lower, and tribs	Silt/Sediment
Erie	Ellicott Creek, Lower, and tribs	Nutrients
Erie	Green Lake	Nutrients
Erie	Little Sister Creek, Lower, and tribs	Nutrients
Erie	Murder Creek, Lower, and tribs	Nutrients
Erie	Rush Creek and tribs	Nutrients
Erie	Scajaquada Creek, Lower, and tribs	Nutrients
Erie	Scajaquada Creek, Middle, and tribs	Nutrients
Erie	Scajaquada Creek, Upper, and tribs	Nutrients
Erie	South Branch Smoke Cr, Lower, and tribs	Silt/Sediment
Erie	South Branch Smoke Cr, Lower, and tribs	Nutrients
Essex	Lake Champlain, Main Lake, South	Nutrients
Essex	Lake Champlain, South Lake	Nutrients
Essex	Willboro Bay	Nutrients
Genesee	Bigelow Creek and tribs	Nutrients
Genesee	Black Creek, Middle, and minor tribs	Nutrients
Genesee	Black Creek, Upper, and minor tribs	Nutrients
Genesee	Bowen Brook and tribs	Nutrients
Genesee	LeRoy Reservoir	Nutrients
Genesee	Oak Orchard Cr, Upper, and tribs	Nutrients
Genesee	Tonawanda Creek, Middle, Main Stem	Nutrients
Greene	Schoharie Reservoir	Silt/Sediment
Greene	Sleepy Hollow Lake	Silt/Sediment
Herkimer	Steele Creek tribs	Silt/Sediment
Herkimer	Steele Creek tribs	Nutrients
Jefferson	Moon Lake	Nutrients
Kings	Hendrix Creek	Nutrients
Kings	Prospect Park Lake	Nutrients
Lewis	Mill Creek/South Branch, and tribs	Nutrients
Livingston	Christie Creek and tribs	Nutrients
Livingston	Comesus Lake	Nutrients
Livingston	Mill Creek and minor tribs	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs	Nutrients
Monroe	Buck Pond	Nutrients
Monroe	Cranberry Pond	Nutrients

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303(d) Segments Impaired by Construction Related Pollutant(s)

Monroe	Lake Ontario Shoreline, Western	Nutrients
Monroe	Long Pond	Nutrients
Monroe	Mill Creek and tribs	Nutrients
Monroe	Mill Creek/Blue Pond Outlet and tribs	Nutrients
Monroe	Minor Tribs to Irondequoit Bay	Nutrients
Monroe	Rochester Embayment - East	Nutrients
Monroe	Rochester Embayment - West	Nutrients
Monroe	Shipbuilders Creek and tribs	Nutrients
Monroe	Thomas Creek/White Brook and tribs	Nutrients
Nassau	Beaver Lake	Nutrients
Nassau	Camaans Pond	Nutrients
Nassau	East Meadow Brook, Upper, and tribs	Silt/Sediment
Nassau	East Rockaway Channel	Nutrients
Nassau	Grant Park Pond	Nutrients
Nassau	Hempstead Bay	Nutrients
Nassau	Hempstead Lake	Nutrients
Nassau	Hewlett Bay	Nutrients
Nassau	Hog Island Channel	Nutrients
Nassau	Long Island Sound, Nassau County Waters	Nutrients
Nassau	Massapequa Creek and tribs	Nutrients
Nassau	Milburn/Parsonage Creeks, Upp, and tribs	Nutrients
Nassau	Reynolds Channel, west	Nutrients
Nassau	Tidal Tribs to Hempstead Bay	Nutrients
Nassau	Trib (fresh) to East Bay	Nutrients
Nassau	Trib (fresh) to East Bay	Silt/Sediment
Nassau	Trib to Smith/Halls Ponds	Nutrients
Nassau	Woodmere Channel	Nutrients
New York	Harlem Meer	Nutrients
New York	The Lake in Central Park	Nutrients
Niagara	Bergholz Creek and tribs	Nutrients
Niagara	Hyde Park Lake	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Oneida	Ballou, Nail Creeks and tribs	Nutrients
Onondaga	Harbor Brook, Lower, and tribs	Nutrients
Onondaga	Ley Creek and tribs	Nutrients
Onondaga	Minor Tribs to Onondaga Lake	Nutrients
Onondaga	Ninemile Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Middle, and tribs	Nutrients

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303(d) Segments Impaired by Construction Related Pollutant(s)

Onondaga	Onondaga Lake, northern end	Nutrients
Onondaga	Onondaga Lake, southern end	Nutrients
Ontario	Great Brook and minor tribs	Silt/Sediment
Ontario	Great Brook and minor tribs	Nutrients
Ontario	Hemlock Lake Outlet and minor tribs	Nutrients
Ontario	Honeoye Lake	Nutrients
Orange	Greenwood Lake	Nutrients
Orange	Monhagen Brook and tribs	Nutrients
Orange	Orange Lake	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Oswego	Lake Neatahwanta	Nutrients
Oswego	Pleasant Lake	Nutrients
Putnam	Bog Brook Reservoir	Nutrients
Putnam	Boyd Corners Reservoir	Nutrients
Putnam	Croton Falls Reservoir	Nutrients
Putnam	Diverting Reservoir	Nutrients
Putnam	East Branch Reservoir	Nutrients
Putnam	Lake Carmel	Nutrients
Putnam	Middle Branch Reservoir	Nutrients
Putnam	Oscawana Lake	Nutrients
Putnam	Palmer Lake	Nutrients
Putnam	West Branch Reservoir	Nutrients
Queens	Bergen Basin	Nutrients
Queens	Flushing Creek/Bay	Nutrients
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Nutrients
Queens	Kissena Lake	Nutrients
Queens	Meadow Lake	Nutrients
Queens	Willow Lake	Nutrients
Rensselaer	Nassau Lake	Nutrients
Rensselaer	Snyders Lake	Nutrients
Richmond	Grasmere Lake/Bradys Pond	Nutrients
Rockland	Congers Lake, Swartout Lake	Nutrients
Rockland	Rockland Lake	Nutrients
Saratoga	Ballston Lake	Nutrients
Saratoga	Dwaas Kill and tribs	Silt/Sediment
Saratoga	Dwaas Kill and tribs	Nutrients
Saratoga	Lake Lonely	Nutrients
Saratoga	Round Lake	Nutrients
Saratoga	Trib to Lake Lonely	Nutrients

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303(d) Segments Impaired by Construction Related Pollutant(s)

Schenectady	Collins Lake	Nutrients
Schenectady	Duane Lake	Nutrients
Schenectady	Mariaville Lake	Nutrients
Schoharie	Engleville Pond	Nutrients
Schoharie	Summit Lake	Nutrients
Seneca	Reeder Creek and tribs	Nutrients
St.Lawrence	Black Lake Outlet/Black Lake	Nutrients
St.Lawrence	Fish Creek and minor tribs	Nutrients
Steuben	Smith Pond	Nutrients
Suffolk	Agawam Lake	Nutrients
Suffolk	Big/Little Fresh Ponds	Nutrients
Suffolk	Canaan Lake	Silt/Sediment
Suffolk	Canaan Lake	Nutrients
Suffolk	Flanders Bay, West/Lower Sawmill Creek	Nutrients
Suffolk	Fresh Pond	Nutrients
Suffolk	Great South Bay, East	Nutrients
Suffolk	Great South Bay, Middle	Nutrients
Suffolk	Great South Bay, West	Nutrients
Suffolk	Lake Ronkonkoma	Nutrients
Suffolk	Long Island Sound, Suffolk County, West	Nutrients
Suffolk	Mattituck (Marratooka) Pond	Nutrients
Suffolk	Meetinghouse/Terrys Creeks and tribs	Nutrients
Suffolk	Mill and Seven Ponds	Nutrients
Suffolk	Millers Pond	Nutrients
Suffolk	Moriches Bay, East	Nutrients
Suffolk	Moriches Bay, West	Nutrients
Suffolk	Peconic River, Lower, and tidal tribs	Nutrients
Suffolk	Quantuck Bay	Nutrients
Suffolk	Shinnecock Bay and Inlet	Nutrients
Suffolk	Tidal tribs to West Moriches Bay	Nutrients
Sullivan	Bodine, Montgomery Lakes	Nutrients
Sullivan	Davies Lake	Nutrients
Sullivan	Evens Lake	Nutrients
Sullivan	Pleasure Lake	Nutrients
Tompkins	Cayuga Lake, Southern End	Nutrients
Tompkins	Cayuga Lake, Southern End	Silt/Sediment
Tompkins	Owasco Inlet, Upper, and tribs	Nutrients
Ulster	Ashokan Reservoir	Silt/Sediment
Ulster	Esopus Creek, Upper, and minor tribs	Silt/Sediment
Warren	Hague Brook and tribs	Silt/Sediment

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303(d) Segments Impaired by Construction Related Pollutant(s)

Warren	Huddle/Finkle Brooks and tribs	Silt/Sediment
Warren	Indian Brook and tribs	Silt/Sediment
Warren	Lake George	Silt/Sediment
Warren	Trib to L.George, Village of L George	Silt/Sediment
Washington	Cossayuna Lake	Nutrients
Washington	Lake Champlain, South Bay	Nutrients
Washington	Trib to L.George, East Shore	Silt/Sediment
Washington	Wood Cr/Champlain Canal and minor tribs	Nutrients
Wayne	Port Bay	Nutrients
Westchester	Amawalk Reservoir	Nutrients
Westchester	Blind Brook, Upper, and tribs	Silt/Sediment
Westchester	Cross River Reservoir	Nutrients
Westchester	Lake Katonah	Nutrients
Westchester	Lake Lincolnale	Nutrients
Westchester	Lake Meaghagh	Nutrients
Westchester	Lake Mohagan	Nutrients
Westchester	Lake Shenorock	Nutrients
Westchester	Long Island Sound, Westchester (East)	Nutrients
Westchester	Mamaroneck River, Lower	Silt/Sediment
Westchester	Mamaroneck River, Upper, and minor tribs	Silt/Sediment
Westchester	Muscoot/Upper New Croton Reservoir	Nutrients
Westchester	New Croton Reservoir	Nutrients
Westchester	Peach Lake	Nutrients
Westchester	Reservoir No.1 (Lake Isle)	Nutrients
Westchester	Saw Mill River, Lower, and tribs	Nutrients
Westchester	Saw Mill River, Middle, and tribs	Nutrients
Westchester	Sheldrake River and tribs	Silt/Sediment
Westchester	Sheldrake River and tribs	Nutrients
Westchester	Silver Lake	Nutrients
Westchester	Teatown Lake	Nutrients
Westchester	Titicus Reservoir	Nutrients
Westchester	Truesdale Lake	Nutrients
Westchester	Wallace Pond	Nutrients
Wyoming	Java Lake	Nutrients
Wyoming	Silver Lake	Nutrients

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APPENDIX F – List of NYS DEC Regional Offices

Region	COVERING THE FOLLOWING COUNTIES:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) PERMIT ADMINISTRATORS	DIVISION OF WATER (DOW) WATER (SPDES) PROGRAM
1	NASSAU AND SUFFOLK	50 CIRCLE ROAD STONY BROOK, NY 11790 TEL. (516) 444-4365	50 CIRCLE ROAD STONY BROOK, NY 11790-3409 TEL. (516) 444-4605
2	BROOK, KING, NEW YORK, QUEENS AND RICHMOND	1 HUNTERS POINT PLAZA, 47-40 2151 ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4997	1 HUNTERS POINT PLAZA, 47-40 2151 ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4933
3	DUTCHESS, ORANGE, PUTNAM, ROCKLAND, SULLIVAN, ULSTER AND WESTCHESTER	21 SOUTH PUTT CORNERS ROAD NEW PALTZ, NY 12561-1696 TEL. (845) 256-3059	100 HILLSIDE AVENUE, SUITE 1W WHITE PLAINS, NY 10603 TEL. (914) 428-2505
4	ALBANY, COLUMBIA, DELAWARE, GREENE, MONTGOMERY, OSWEGO, RENSSELAER, SCHENECTADY AND SCHORHARKE	1150 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2069	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2045
5	CLINTON, ESSEX, FRANKLIN, FULTON, HAMILTON, SARATOGA, WARREN AND WASHINGTON	1115 STATE ROUTE 86, PO BOX 296 RAY BROOK, NY 12977-0296 TEL. (518) 897-1234	232 GOLF COURSE ROAD WARRENSBURG, NY 12885-1172 TEL. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERLOO, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2895 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROAD/AVON, NY 14414-9519 TEL. (905) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (905) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUGUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7070

**APPENDIX B  
MS4 ACCEPTANCE FORM,  
NOTICE OF INTENT (NOI),  
NOTICE OF TERMINATION (NOT) FORM**



**Department of  
Environmental  
Conservation**

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

**MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance  
Form**

**for  
Construction Activities Seeking Authorization Under SPDES General Permit**  
\*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

<b>I. Project Owner/Operator Information</b>
1. Owner/Operator Name: Michael Davidson
2. Contact Person: Michael Davidson
3. Street Address: 42 Sweetie Lane
4. City/State/Zip: Altamont, NY 12009
<b>II. Project Site Information</b>
5. Project/Site Name: Mixed Use Building
6. Street Address: 97-99 Twenty West Drive
7. City/State/Zip: Altamont, NY 12009
<b>III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information</b>
8. SWPPP Reviewed by: Kenneth A D'Arpino
9. Title/Position: MS4
10. Date Final SWPPP Reviewed and Accepted:
<b>IV. Regulated MS4 Information</b>
11. Name of MS4: Town of Guilderland
12. MS4 SPDES Permit Identification Number: NYR20A <u>211</u>
13. Contact Person: Kenneth A D'Arpino
14. Street Address: 5209 Western Turnpike
15. City/State/Zip: Guilderland, NY 12084
16. Telephone Number: 518-356-1980



# NOI for coverage under Stormwater General Permit for Construction Activity

version 1.29

(Submission #: HP7-TJK4-3K1RM, version 1)

## Details

---

**Submission Alias** 97-99 Twenty West Drive

**Originally Started By** ABD Engineers, LLP

**Submission ID** HP7-TJK4-3K1RM

**Submission Reason** New

**Status** Draft

**Active Steps** Form Submitted

## Form Input

---

### Owner/Operator Information

**Owner/Operator Name (Company/Private Owner/Municipality/Agency/Institution, etc.)**

Michael Davidson

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

Davidson

**Owner/Operator Contact Person First Name**

Michael

**Owner/Operator Mailing Address**

42 Sweetie Lane

**City**

Altamont

**State**

NY

**Zip**

12009

**Phone**

NONE PROVIDED

**Email**

NONE PROVIDED

**Federal Tax ID**

NONE PROVIDED

### Project Location

**Project/Site Name**

Mixed Use Building

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**Street Address (Not P.O. Box)**

97-99 Twenty West Drive

**Side of Street**

West

**City/Town/Village (THAT ISSUES BUILDING PERMIT)**

Guilderland

**State**

NY

**Zip**

12009

**County**

ALBANY

**DEC Region**

4

**Name of Nearest Cross Street**

Western Avenue

**Distance to Nearest Cross Street (Feet)**

100

**Project In Relation to Cross Street**

South

**Tax Map Numbers Section-Block-Parcel**

39.00-2-103

**Tax Map Numbers**

NONE PROVIDED

**1. Coordinates**

---

Provide the Geographic Coordinates for the project site. The two methods are:

- Navigate to the project location on the map (below) and click to place a marker and obtain the XY coordinates.
- The "Find Me" button will provide the lat/long for the person filling out this form. Then pan the map to the correct location and click the map to place a marker and obtain the XY coordinates.

**Navigate to your location and click on the map to get the X,Y coordinates**

42.71673656540994,-73.93722259807703

**Project Details**

**2. What is the nature of this project?**

New Construction

**3. Select the predominant land use for both pre and post development conditions.**

**Pre-Development Existing Landuse**

Pasture/Open Land

**Post-Development Future Land Use**

Commercial

**3a. If Single Family Subdivision was selected in question 3, enter the number of subdivision lots.**

NONE PROVIDED

---

4. In accordance with the larger common plan of development or sale, enter the total project site acreage, the acreage to be disturbed and the future impervious area (acreage)within the disturbed area.

\*\*\* ROUND TO THE NEAREST TENTH OF AN ACRE. \*\*\*

**Total Site Area (acres)**

1.8

**Total Area to be Disturbed (acres)**

1.6

**Existing Impervious Area to be Disturbed (acres)**

0.0

**Future Impervious Area Within Disturbed Area (acres)**

0.9

**5. Do you plan to disturb more than 5 acres of soil at any one time?**

No

---

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

**A (%)**

100

**B (%)**

0

**C (%)**

0

**D (%)**

0

**7. Is this a phased project?**

No

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

**Start Date**

5/1/2021

**End Date**

5/1/2022

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

Tributary of Normans Kill

**9a. Type of waterbody identified in question 9?**

Stream/Creek Off Site

**Other Waterbody Type Off Site Description**

NONE PROVIDED

**9b. If "wetland" was selected in 9A, how was the wetland identified?**

NONE PROVIDED

**10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001?**

No

**11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001?**

No

**12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters?**

No

**If No, skip question 13.**

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**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?**

NONE PROVIDED

**If Yes, what is the acreage to be disturbed?**

NONE PROVIDED

**14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area?**

No

**15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)?**

Yes

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

NYS DOT

**17. Does any runoff from the site enter a sewer classified as a Combined Sewer?**

No

**18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law?**

No

**19. Is this property owned by a state authority, state agency, federal government or local government?**

No

**20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.)**

No

### **Required SWPPP Components**

**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

**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

**If you answered No in question 22, skip question 23 and the Post-construction Criteria and Post-construction SMP Identification sections.**

**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

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

Professional Engineer (P.E.)

**SWPPP Preparer**

ABD Engineers, LLP

**Contact Name (Last, Space, First)**

Palleschi, Luigi

**Mailing Address**

411 Union Street

**City**

Schenectady

**State**

NY

**Zip**

12305

**Phone**

5183770315

**Email**

luigi@abdeng.com

**Download SWPPP Preparer Certification Form**

Please take the following steps to prepare and upload your preparer certification form:

- 1) Click on the link below to download a blank certification form
- 2) The certified SWPPP preparer should sign this form
- 3) Scan the signed form
- 4) Upload the scanned document

[Download SWPPP Preparer Certification Form](#)

**Please upload the SWPPP Preparer Certification**

NONE PROVIDED

**Comment**

NONE PROVIDED

**Erosion & Sediment Control Criteria**

**25. Has a construction sequence schedule for the planned management practices been prepared?**

Yes

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

**Temporary Structural**

Silt Fence  
Stabilized Construction Entrance

**Biotechnical**

None

**Vegetative Measures**

Mulching  
Seeding  
Topsoiling

**Permanent Structural**

Land Grading  
Rock Outlet Protection

**Other**

NONE PROVIDED

**Post-Construction Criteria**

**\* 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.**

Sidewalk Reduction  
Reduction of Clearing and Grading

**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).

**28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout). (Acre-feet)**  
0.081

**29. Post-construction SMP Identification**

Use the Post-construction SMP Identification section to identify the RR techniques (Area Reduction), RR techniques (Volume Reduction) and Standard SMPs with RRv Capacity that were used to reduce the Total WQv Required (#28).

Identify the SMPs to be used by providing 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 the Post-Construction SMP Identification section 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.

**30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29. (acre-feet)**  
0.081

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

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)] (acre-feet)**  
NONE PROVIDED

**32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?**  
NONE PROVIDED

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; therefore, NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

**33. SMPs**

Use the Post-construction SMP Identification section to identify the Standard SMPs and, if applicable, the Alternative SMPs to be used to treat the remaining total WQv (=Total WQv Required in #28 - Total RRv Provided in #30).

Also, provide the total impervious area that contributes runoff to each practice selected.

NOTE: Use the Post-construction SMP Identification section 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. (acre-feet)**  
NONE PROVIDED

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 - 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).**  
NONE PROVIDED

**35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)?**  
NONE PROVIDED

If Yes, go to question 36.

If No, sizing criteria has not been met; therefore, 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 (acre-feet)**  
NONE PROVIDED

**CPv Provided (acre-feet)**  
NONE PROVIDED

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

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.**

**Overbank Flood Control Criteria (Qp)**

**Pre-Development (CFS)**  
0.86

**Post-Development (CFS)**  
0.32

**Total Extreme Flood Control Criteria (Qf)**

**Pre-Development (CFS)**  
2.77

**Post-Development (CFS)**  
0.83

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

NONE PROVIDED

**38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed?**

Yes

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

Michael Davidson

**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.**

NONE PROVIDED

**Post-Construction SMP Identification**

**Runoff Reduction (RR) Techniques, Standard Stormwater Management Practices (SMPs) and Alternative SMPs**

Identify the Post-construction SMPs to be used by providing 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.

**RR Techniques (Area Reduction)**

Round to the nearest tenth

**Total Contributing Acres for Conservation of Natural Area (RR-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Conservation of Natural Area (RR-1)**  
NONE PROVIDED

**Total Contributing Acres for Sheetflow to Riparian Buffers/Filter Strips (RR-2)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Sheetflow to Riparian Buffers/Filter Strips (RR-2)**  
NONE PROVIDED

**Total Contributing Acres for Tree Planting/Tree Pit (RR-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Tree Planting/Tree Pit (RR-3)**  
NONE PROVIDED

**Total Contributing Acres for Disconnection of Rooftop Runoff (RR-4)**  
NONE PROVIDED

**RR Techniques (Volume Reduction)**

---

**Total Contributing Impervious Acres for Disconnection of Rooftop Runoff (RR-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Vegetated Swale (RR-5)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Rain Garden (RR-6)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Stormwater Planter (RR-7)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Rain Barrel/Cistern (RR-8)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Porous Pavement (RR-9)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Green Roof (RR-10)**  
NONE PROVIDED

**Standard SMPs with RRv Capacity**

---

**Total Contributing Impervious Acres for Infiltration Trench (I-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Infiltration Basin (I-2)**  
0.91

**Total Contributing Impervious Acres for Dry Well (I-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Underground Infiltration System (I-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Bioretention (F-5)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Dry Swale (O-1)**  
NONE PROVIDED

**Standard SMPs**

---

**Total Contributing Impervious Acres for Micropool Extended Detention (P-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Wet Pond (P-2)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Wet Extended Detention (P-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Multiple Pond System (P-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Pocket Pond (P-5)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Surface Sand Filter (F-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Underground Sand Filter (F-2)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Perimeter Sand Filter (F-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Organic Filter (F-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Shallow Wetland (W-1)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Extended Detention Wetland (W-2)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Pond/Wetland System (W-3)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Pocket Wetland (W-4)**  
NONE PROVIDED

**Total Contributing Impervious Acres for Wet Swale (O-2)**  
NONE PROVIDED

**Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)**

---

**Total Contributing Impervious Area for Hydrodynamic**  
NONE PROVIDED

**Total Contributing Impervious Area for Wet Vault**  
NONE PROVIDED

**Total Contributing Impervious Area for Media Filter**  
NONE PROVIDED

**"Other" Alternative SMP?**  
NONE PROVIDED

**Total Contributing Impervious Area for "Other"**  
NONE PROVIDED

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

**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.**

**Manufacturer of Alternative SMP**  
NONE PROVIDED

**Name of Alternative SMP**  
NONE PROVIDED

**Other Permits**

**40. Identify other DEC permits, existing and new, that are required for this project/facility.**  
None

**If SPDES Multi-Sector GP, then give permit ID**  
NONE PROVIDED

**If Other, then identify**  
NONE PROVIDED

**41. Does this project require a US Army Corps of Engineers Wetland Permit?**  
No

**If "Yes," then indicate Size of Impact, in acres, to the nearest tenth**  
NONE PROVIDED

**42. 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.**  
NONE PROVIDED

**MS4 SWPPP Acceptance**

**43. Is this project subject to the requirements of a regulated, traditional land use control MS4?**  
Yes - Please attach the MS4 Acceptance form below

**If No, skip question 44**

**44. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI?**  
Yes

**MS4 SWPPP Acceptance Form Download**  
Download form from the link below. Complete, sign, and upload.  
[MS4 SWPPP Acceptance Form](#)

**MS4 Acceptance Form Upload**  
NONE PROVIDED  
**Comment**  
NONE PROVIDED

**Owner/Operator Certification**

**Owner/Operator Certification Form Download**  
Download the certification form by clicking the link below. Complete, sign, scan, and upload the form.  
[Owner/Operator Certification Form \(PDF, 45KB\)](#)

**Upload Owner/Operator Certification Form**  
NONE PROVIDED  
**Comment**  
NONE PROVIDED

**Status History**

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	User	Processing Status
4/8/2021 9:47:00 AM	ABD Engineers, LLP	Draft

### Processing Steps

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Step Name	Assigned To/Completed By	Date Completed
Form Submitted		
Under Review	DAVID GASPER	

4/12/2021 2:51:33 PM

Page 11 of 11

<p><b>New York State Department of Environmental Conservation</b>  <b>Division of Water</b>  <b>625 Broadway, 4th Floor</b>  <b>Albany, New York 12233-3505</b>                  *(NOTE: Submit completed form to address above)*</p>	
<p><b>NOTICE OF TERMINATION for Storm Water Discharges Authorized</b>  <b>under the SPDES General Permit for Construction Activity</b></p>	
<p><b>Please indicate your permit identification number:</b> NYR _____</p>	
<b>I. Owner or Operator Information</b>	
1. Owner/Operator Name: Michael Davidson	
2. Street Address: 42 Sweetie Lane	
3. City/State/Zip: Altamont, NY 12009	
4. Contact Person: Michael Davidson	4a. Telephone:
4b. Contact Person E-Mail:	
<b>II. Project Site Information</b>	
5. Project/Site Name: Mixed Use Building	
6. Street Address: 97-99 Twenty West Drive	
7. City/Zip: Altamont, NY 12009	
8. County: Albany	
<b>III. Reason for Termination</b>	
9a. <input type="checkbox"/> All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. *Date final stabilization completed (month/year): _____	
9b. <input type="checkbox"/> Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR _____ (Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)	
9c. <input type="checkbox"/> Other (Explain on Page 2)	
<b>IV. Final Site Information:</b>	
10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? <input type="checkbox"/> yes <input type="checkbox"/> no (If no, go to question 10f.)	
10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? <input type="checkbox"/> yes <input type="checkbox"/> no (If no, explain on Page 2)	
10c. Identify the entity responsible for long-term operation and maintenance of practice(s)? _____	

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the  
SPDES General Permit for Construction Activity - continued**

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit?     yes     no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

- Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.
- Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).
- For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.
- For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? \_\_\_\_\_  
(acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4?     yes  
 no  
(If Yes, complete section VI - "MS4 Acceptance" statement)

**V. Additional Information/Explanation:**  
(Use this section to answer questions 9c. and 10b., if applicable)

**VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative** (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:

Title/Position:

Signature:

Date:

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the  
SPDES General Permit for Construction Activity - continued**

**VII. Qualified Inspector Certification - Final Stabilization:**

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

**VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):**

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

**IX. Owner or Operator Certification**

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

(NYS DEC Notice of Termination - January 2015)

**APPENDIX C**  
**EROSION AND SEDIMENT CONTROL**  
**STANDARDS AND SPECIFICATIONS**

## STANDARD AND SPECIFICATIONS FOR CONCRETE TRUCK WASHOUT



### **Definition & Scope**

A temporary excavated or above ground lined constructed pit where concrete truck mixers and equipment can be washed after their loads have been discharged, to prevent highly alkaline runoff from entering storm drainage systems or leaching into soil.

### **Conditions Where Practice Applies**

Washout facilities shall be provided for every project where concrete will be poured or otherwise formed on the site. This facility will receive highly alkaline wash water from the cleaning of chutes, mixers, hoppers, vibrators, placing equipment, trowels, and screeds. Under no circumstances will wash water from these operations be allowed to infiltrate into the soil or enter surface waters.

### **Design Criteria**

**Capacity:** The washout facility should be sized to contain solids, wash water, and rainfall and sized to allow for the evaporation of the wash water and rainfall. Wash water shall be estimated at 7 gallons per chute and 50 gallons per hopper of the concrete pump truck and/or discharging drum. The minimum size shall be 8 feet by 8 feet at the bottom and 2 feet deep. If excavated, the side slopes shall be 2 horizontal to 1 vertical.

**Location:** Locate the facility a minimum of 100 feet from drainage swales, storm drain inlets, wetlands, streams and other surface waters. Prevent surface water from entering the structure except for the access road. Provide appropriate access with a gravel access road sloped down to the structure. Signs shall be placed to direct drivers to the facility after their load is discharged.

**Liner:** All washout facilities will be lined to prevent

leaching of liquids into the ground. The liner shall be plastic sheeting with a minimum thickness of 10 mils with no holes or tears, and anchored beyond the top of the pit with an earthen berm, sand bags, stone, or other structural appurtenance except at the access point.

If pre-fabricated washouts are used they must ensure the capture and containment of the concrete wash and be sized based on the expected frequency of concrete pours. They shall be sited as noted in the location criteria.

### **Maintenance**

- All concrete washout facilities shall be inspected daily. Damaged or leaking facilities shall be deactivated and repaired or replaced immediately. Excess rainwater that has accumulated over hardened concrete should be pumped to a stabilized area, such as a grass filter strip.
- Accumulated hardened material shall be removed when 75% of the storage capacity of the structure is filled. Any excess wash water shall be pumped into a containment vessel and properly disposed of off site.
- Dispose of the hardened material off-site in a construction/demolition landfill. On-site disposal may be allowed if this has been approved and accepted as part of the projects SWPPP. In that case, the material should be recycled as specified, or buried and covered with a minimum of 2 feet of clean compacted earthfill that is permanently stabilized to prevent erosion.
- The plastic liner shall be replaced with each cleaning of the washout facility.
- Inspect the project site frequently to ensure that no concrete discharges are taking place in non-designated areas.

## STANDARD AND SPECIFICATIONS FOR STABILIZED CONSTRUCTION ACCESS



inert to commonly encountered chemicals, hydro-carbons, mildew, rot resistant, and conform to the fabric properties as shown:

Fabric Properties <sup>3</sup>	Light Duty <sup>1</sup> Roads Grade Sub-grade	Heavy Duty <sup>2</sup> Haul Roads Rough Graded	Test Method
Grab Tensile Strength (lbs)	200	220	ASTM D1682
Elongation at Failure (%)	50	60	ASTM D1682
Mullen Burst Strength (lbs)	190	430	ASTM D3786
Puncture Strength (lbs)	40	125	ASTM D751 Modified
Equivalent	40-80	40-80	US Std Sieve
Opening Size			CW-02215
Aggregate Depth	6	10	-

### Definition & Scope

A stabilized pad of aggregate underlain with geotextile located at any point where traffic will be entering or leaving a construction site to or from a public right-of-way, street, alley, sidewalk, or parking area. The purpose of stabilized construction access is to reduce or eliminate the tracking of sediment onto public rights-of-way or streets.

### Conditions Where Practice Applies

A stabilized construction access shall be used at all points of construction ingress and egress.

### Design Criteria

See Figure 2.1 on page 2.31 for details.

**Aggregate Size:** Use a matrix of 1-4 inch stone, or reclaimed or recycled concrete equivalent.

**Thickness:** Not less than six (6) inches.

**Width:** 12-foot minimum but not less than the full width of points where ingress or egress occurs. 24-foot minimum if there is only one access to the site.

**Length:** As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum would apply).

**Geotextile:** To be placed over the entire area to be covered with aggregate. Filter cloth will not be required on a single-family residence lot. Piping of surface water under entrance shall be provided as required. If piping is impossible, a mountable berm with 5:1 slopes will be permitted.

**Criteria for Geotextile:** The geotextile shall be woven or nonwoven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The fabric shall be

<sup>1</sup>Light Duty Road: Area sites that have been graded to subgrade and where most travel would be single axle vehicles and an occasional multi-axle truck. Acceptable materials are Trevira Spunbond 1115, Mirafi 100X, Typar 3401, or equivalent.

<sup>2</sup>Heavy Duty Road: Area sites with only rough grading, and where most travel would be multi-axle vehicles. Acceptable materials are Trevira Spunbond 1135, Mirafi 600X, or equivalent.

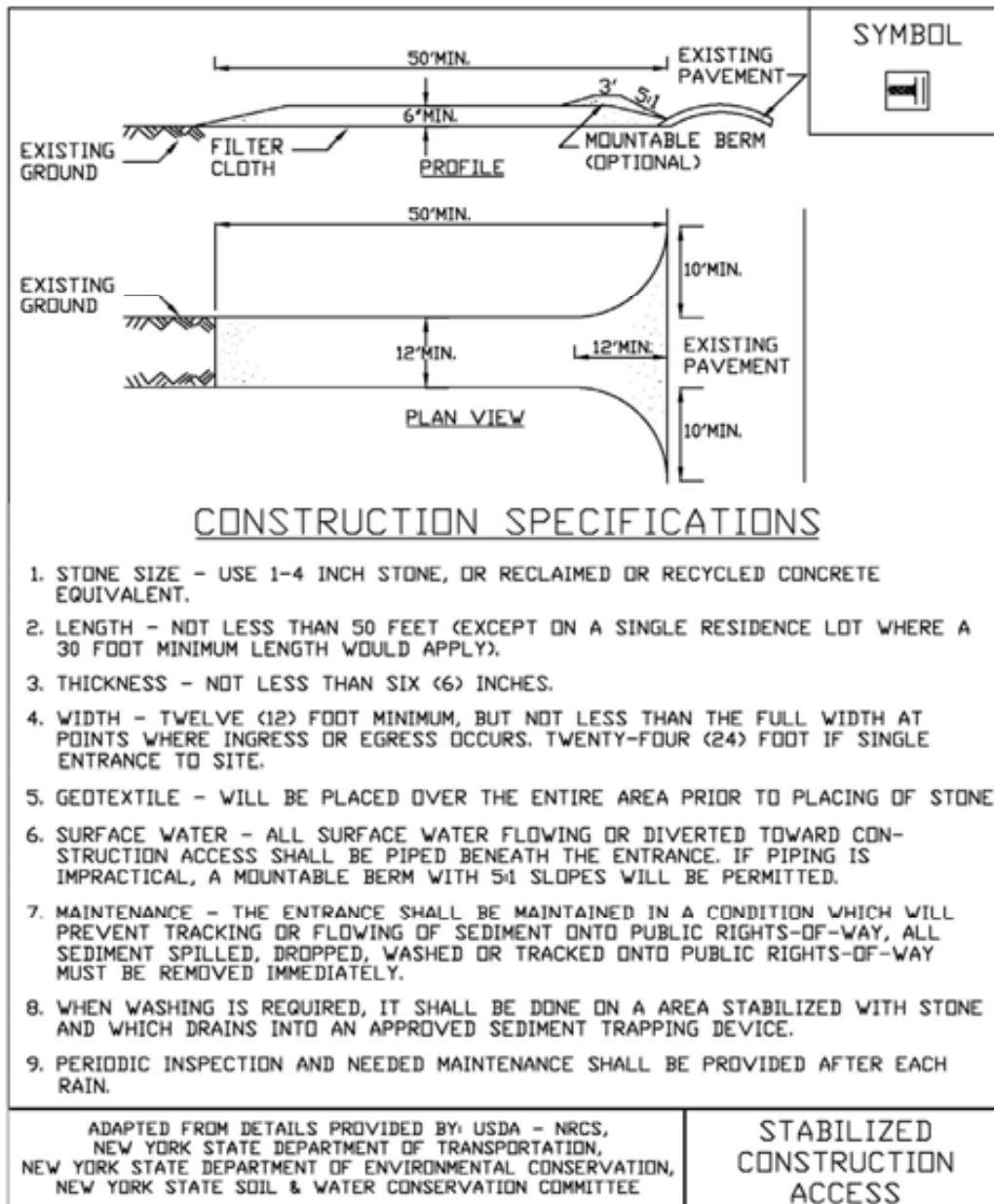
<sup>3</sup>Fabrics not meeting these specifications may be used only when design procedure and supporting documentation are supplied to determine aggregate depth and fabric strength.

### Maintenance

The access shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way or streets. This may require periodic top dressing with additional aggregate. All sediment spilled, dropped, or washed onto public rights-of-way must be removed immediately.

When necessary, wheels must be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with aggregate, which drains into an approved sediment-trapping device. All sediment shall be prevented from entering storm drains, ditches, or watercourses.

**Figure 2.1  
Stabilized Construction Access**



## STANDARD AND SPECIFICATIONS FOR MULCHING



### **Definition and Scope**

Applying coarse plant residue or chips, or other suitable materials, to cover the soil surface to provide initial erosion control while a seeding or shrub planting is establishing. Mulch will conserve moisture and modify the surface soil temperature and reduce fluctuation of both. Mulch will prevent soil surface crusting and aid in weed control. Mulch can also be used alone for temporary stabilization in non-growing months. Use of stone as a mulch could be more permanent and should not be limited to non-growing months.

### **Conditions Where Practice Applies**

On soils subject to erosion and on new seedings and shrub plantings. Mulch is useful on soils with low infiltration rates by retarding runoff.

### **Criteria**

Site preparation prior to mulching requires the installation of necessary erosion control or water management practices and drainage systems.

Slope, grade and smooth the site to fit needs of selected mulch products.

Remove all undesirable stones and other debris to meet the needs of the anticipated land use and maintenance required.

Apply mulch after soil amendments and planting is accomplished or simultaneously if hydroseeding is used.

Select appropriate mulch material and application rate or material needs. Hay mulch shall not be used in wetlands or in areas of permanent seeding. Clean straw mulch is preferred alternative in wetland application. Determine local availability.

Select appropriate mulch anchoring material.

NOTE: The best combination for grass/legume establishment is straw (cereal grain) mulch applied at 2 ton/acre (90 lbs./1000sq.ft.) and anchored with wood fiber mulch (hydromulch) at 500 – 750 lbs./acre (11 – 17 lbs./1000 sq. ft.). The wood fiber mulch must be applied through a hydroseeder immediately after mulching.



**Table 4.2  
Guide to Mulch Materials, Rates, and Uses**

Mulch Material	Quality Standards	per 1000 Sq. Ft.	per Acre	Depth of Application	Remarks
Wood chips or shavings	Air-dried. Free of objectionable coarse material	500-900 lbs.	10-20 tons	2-7"	Used primarily around shrub and tree plantings and recreation trails to inhibit weed competition. Resistant to wind blowing. Decomposes slowly.
Wood fiber cellulose (partly digested wood fibers)	Made from natural wood usually with green dye and dispersing agent	50 lbs.	2,000 lbs.	—	Apply with hydromulcher. No tie down required. Less erosion control provided than 2 tons of hay or straw.
Gravel, Crushed Stone or Slag	Washed; Size 2B or 3A—1 1/2"	9 cu. yds.	405 cu. yds.	3"	Excellent mulch for short slopes and around plants and ornamentals. Use 2B where subject to traffic. (Approximately 2,000 lbs./cu. yd.). Frequently used over filter fabric for better weed control.
Hay or Straw	Air-dried, free of undesirable seeds & coarse materials	90-100 lbs. 2-3 bales	2 tons (100-120 bales)	cover about 90% surface	Use small grain straw where mulch is maintained for more than three months. Subject to wind blowing unless anchored. Most commonly used mulching material. Provides the best micro-environment for germinating seeds.
Jute twisted yarn	Undyed, unbleached plain weave. Warp 78 ends/yd., Weft 41 ends/yd. 60-90 lbs./roll	48" x 50 yds. or 48" x 75 yds.	—	—	Use without additional mulch. Tie down as per manufacturers specifications. Good for center line of concentrated water flow.
Excelsior wood fiber mats	Interlocking web of excelsior fibers with photodegradable plastic netting	4' x 112.5' or 8' x 112.5'	—	—	Use without additional mulch. Excellent for seeding establishment. Anchor as per manufacturers specifications. Approximately 72 lbs./roll for excelsior with plastic on both sides. Use two sided plastic for centerline of waterways.
Straw or coconut fiber, or combination	Photodegradable plastic net on one or two sides	Most are 6.5 ft. x 3.5 ft.	81 rolls	—	Designed to tolerate higher velocity water flow, centerlines of waterways, 60 sq. yds. per roll.

**Table 4.3  
Mulch Anchoring Guide**

Anchoring Method or Material	Kind of Mulch to be Anchored	How to Apply
1. Peg and Twine	Hay or straw	After mulching, divide areas into blocks approximately 1 sq. yd. in size. Drive 4-6 pegs per block to within 2" to 3" of soil surface. Secure mulch to surface by stretching twine between pegs in criss-cross pattern on each block. Secure twine around each peg with 2 or more tight turns. Drive pegs flush with soil. Driving stakes into ground tightens the twine.
2. Mulch netting	Hay or straw	Staple the light-weight paper, jute, wood fiber, or plastic nettings to soil surface according to manufacturer's recommendations. Should be biodegradable. Most products are not suitable for foot traffic.
3. Wood cellulose fiber	Hay or straw	Apply with hydroseeder immediately after mulching. Use 500 lbs. wood fiber per acre. Some products contain an adhesive material ("tackifier"), possibly advantageous.
4. Mulch anchoring tool	Hay or straw	Apply mulch and pull a mulch anchoring tool (blunt, straight discs) over mulch as near to the contour as possible. Mulch material should be "tucked" into soil surface about 3".
5. Tackifier	Hay or straw	Mix and apply polymeric and gum tackifiers according to manufacturer's instructions. Avoid application during rain. A 24-hour curing period and a soil temperature higher than 45 <sup>o</sup> Fahrenheit are required.

## STANDARD AND SPECIFICATIONS FOR SOIL RESTORATION



### **Definition & Scope**

The decompaction of areas of a development site or construction project where soils have been disturbed to recover the original properties and porosity of the soil; thus providing a sustainable growth medium for vegetation, reduction of runoff and filtering of pollutants from stormwater runoff.

### **Conditions Where Practice Applies**

Soil restoration is to be applied to areas whose heavy construction traffic is done and final stabilization is to begin. This is generally applied in the cleanup, site restoration, and landscaping phase of construction followed by the permanent establishment of an appropriate ground cover to maintain the soil structure. Soil restoration measures should be applied over and adjacent to any runoff reduction practices to achieve design performance.



### **Design Criteria**

1. Soil restoration areas will be designated on the plan views of areas to be disturbed.

2. Soil restoration will be completed in accordance with Table 4.6 on page 4.53.

### **Specification for Full Soil Restoration**

During periods of relatively low to moderate subsoil moisture, the disturbed subsoils are returned to rough grade and the following Soil Restoration steps applied:

1. Apply 3 inches of compost over subsoil. The compost shall be well decomposed (matured at least 3 months), weed-free, organic matter. It shall be aerobically composted, possess no objectionable odors, and contain less than 1%, by dry weight, of man-made foreign matter. The physical parameters of the compost shall meet the standards listed in Table 5.2 - Compost Standards Table, except for "Particle Size" 100% will pass the 1/2" sieve. **Note: All biosolids compost produced in New York State (or approved for importation) must meet NYS DEC's 6 NYCRR Part 360 (Solid Waste Management Facilities) requirements. The Part 360 requirements are equal to or more stringent than 40 CFR Part 503 which ensure safe standards for pathogen reduction and heavy metals content.**



2. Till compost into subsoil to a depth of at least 12 inches using a cat-mounted ripper, tractor mounted disc, or tiller, to mix and circulate air and compost into the subsoil.
3. Rock-pick until uplifted stone/rock materials of four inches and larger size are cleaned off the site.
4. Apply topsoil to a depth of 6 inches.
5. Vegetate as required by the seeding plan. Use appropriate ground cover with deep roots to maintain the soil structure.
6. Topsoil may be manufactured as a mixture of a mineral component and organic material such as compost.

At the end of the project an inspector should be able to push a 3/8" metal bar 12 inches into the soil just with body weight. This should not be performed within the drip line of any existing trees or over utility installations that are within 24 inches of the surface.

**Maintenance**

Keep the site free of vehicular and foot traffic or other weight loads. Consider pedestrian footpaths.

**Table 4.6  
Soil Restoration Requirements**

Type of Soil Disturbance	Soil Restoration Requirement		Comments/Examples
No soil disturbance	Restoration not permitted		Preservation of Natural Features
Minimal soil disturbance	Restoration not required		Clearing and grubbing
Areas where topsoil is stripped only - no change in grade	HSG A&B	HSG C&D	Protect area from any ongoing construction activities.
	Apply 6 inches of topsoil	Aerate* and apply 6 inches of topsoil	
Areas of cut or fill	HSG A&B	HSG C&D	
	Aerate* and apply 6 inches of topsoil	Apply full Soil Restoration**	
Heavy traffic areas on site (especially in a zone 5-25 feet around buildings but not within a 5 foot perimeter around foundation walls)	Apply full Soil Restoration (decompaction and compost enhancement)		
Areas where Runoff Reduction and/or Infiltration practices are applied	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices.		Keep construction equipment from crossing these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area
Redevelopment projects	Soil Restoration is required on redevelopment projects in areas where existing impervious area will be converted to pervious area.		
* Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler. ** Per "Deep Ripping and De-compaction, DEC 2008".			

**STANDARD AND SPECIFICATIONS FOR  
TEMPORARY CONSTRUCTION AREA SEEDING**



**Criteria**

Water management practices must be installed as appropriate for site conditions. The area must be rough graded and slopes physically stable. Large debris and rocks are usually removed. Seedbed must be seeded within 24 hours of disturbance or scarification of the soil surface will be necessary prior to seeding.

Fertilizer or lime are not typically used for temporary seedings.

IF: Spring or summer or early fall, then seed the area with ryegrass (annual or perennial) at 30 lbs. per acre (Approximately 0.7 lb./1000 sq. ft. or use 1 lb./1000 sq. ft.).

IF: Late fall or early winter, then seed Certified 'Aroostook' winter rye (cereal rye) at 100 lbs. per acre (2.5 lbs./1000 sq. ft.).

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.

Mulch the area with hay or straw at 2 tons/acre (approx. 90 lbs./1000 sq. ft. or 2 bales). 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 manufacturers' specification. Caution is advised when using nylon or other synthetic products. They may be difficult to remove prior to final seeding and can be a hazard to young wildlife species.

**Definition & Scope**

Providing temporary erosion control protection to disturbed areas and/or localized critical areas for an interim period by covering all bare ground that exists as a result of construction activities or a natural event. Critical areas may include but are not limited to steep excavated cut or fill slopes and any disturbed, denuded natural slopes subject to erosion.

**Conditions Where Practice Applies**

Temporary seedings may be necessary on construction sites to protect an area, or section, where final grading is complete, when preparing for winter work shutdown, or to provide cover when permanent seedings are likely to fail due to mid-summer heat and drought. The intent is to provide temporary protective cover during temporary shutdown of construction and/or while waiting for optimal planting time.

## STANDARD AND SPECIFICATIONS FOR TOPSOILING



### **Definition & Scope**

Spreading a specified quality and quantity of topsoil materials on graded or constructed subsoil areas to provide acceptable plant cover growing conditions, thereby reducing erosion; to reduce irrigation water needs; and to reduce the need for nitrogen fertilizer application.

### **Conditions Where Practice Applies**

Topsoil is applied to subsoils that are droughty (low available moisture for plants), stony, slowly permeable, salty or extremely acid. It is also used to backfill around shrub and tree transplants. This standard does not apply to wetland soils.

### **Design Criteria**

1. Preserve existing topsoil in place where possible, thereby reducing the need for added topsoil.
2. Conserve by stockpiling topsoil and friable fine textured subsoils that must be stripped from the excavated site and applied after final grading where vegetation will be established. Topsoil stockpiles must be stabilized. Stockpile surfaces can be stabilized by vegetation, geotextile or plastic covers. This can be aided by orientating the stockpile lengthwise into prevailing winds.
3. Refer to USDA Natural Resource Conservation Service soil surveys or soil interpretation record sheets for further soil texture information for selecting appropriate design topsoil depths.

### **Site Preparation**

1. As needed, install erosion and sediment control practices such as diversions, channels, sediment traps, and stabilizing measures, or maintain if already installed.
2. Complete rough grading and final grade, allowing for depth of topsoil to be added.
3. Scarify all compact, slowly permeable, medium and fine textured subsoil areas. Scarify at approximately right angles to the slope direction in soil areas that are steeper than 5 percent. Areas that have been overly compacted shall be decompact in accordance with the Soil Restoration Standard.
4. Remove refuse, woody plant parts, stones over 3 inches in diameter, and other litter.

### **Topsoil Materials**

1. Topsoil shall have at least 6 percent by weight of fine textured stable organic material, and no greater than 20 percent. Muck soil shall not be considered topsoil.
2. Topsoil shall have not less than 20 percent fine textured material (passing the NO. 200 sieve) and not more than 15 percent clay.
3. Topsoil treated with soil sterilants or herbicides shall be so identified to the purchaser.
4. Topsoil shall be relatively free of stones over 1 1/2 inches in diameter, trash, noxious weeds such as nut sedge and quackgrass, and will have less than 10 percent gravel.
5. Topsoil containing soluble salts greater than 500 parts per million shall not be used.
6. Topsoil may be manufactured as a mixture of a mineral component and organic material such as compost.

### **Application and Grading**

1. Topsoil shall be distributed to a uniform depth over the area. It shall not be placed when it is partly frozen, muddy, or on frozen slopes or over ice, snow, or standing water puddles.
2. Topsoil placed and graded on slopes steeper than 5 percent shall be promptly fertilized, seeded, mulched, and stabilized by "tracking" with suitable equipment.
3. Apply topsoil in the amounts shown in Table 4.7 below:

<b>Site Conditions</b>	<b>Intended Use</b>	<b>Minimum Topsoil Depth</b>
1. Deep sand or loamy sand	Mowed lawn	6 in.
	Tall legumes, unmowed	2 in.
	Tall grass, unmowed	1 in.
2. Deep sandy loam	Mowed lawn	5 in.
	Tall legumes, unmowed	2 in.
	Tall grass, unmowed	none
3. Six inches or more: silt loam, clay loam, loam, or silt	Mowed lawn	4 in.
	Tall legumes, unmowed	1 in.
	Tall grass, unmowed	1 in.

## STANDARD AND SPECIFICATIONS FOR SILT FENCE



### Definition & Scope

A **temporary** barrier of geotextile fabric installed on the contours across a slope used to intercept sediment laden runoff from small drainage areas of disturbed soil by temporarily ponding the sediment laden runoff allowing settling to occur. The maximum period of use is limited by the ultraviolet stability of the fabric (approximately one year).

### Conditions Where Practice Applies

A silt fence may be used subject to the following conditions:

1. Maximum allowable slope length and fence length will not exceed the limits shown in the Design Criteria for the specific type of silt fence used ; and
2. Maximum ponding depth of 1.5 feet behind the fence; and
3. Erosion would occur in the form of sheet erosion; and
4. There is no concentration of water flowing to the barrier; and
5. Soil conditions allow for proper keying of fabric, or other anchorage, to prevent blowouts.

### Design Criteria

1. Design computations are not required for installations of 1 month or less. Longer installation periods should be designed for expected runoff.
2. All silt fences shall be placed as close to the disturbed area as possible, but at least 10 feet from the toe of a slope steeper than 3H:1V, to allow for maintenance and

roll down. The area beyond the fence must be undisturbed or stabilized.

3. The type of silt fence specified for each location on the plan shall not exceed the maximum slope length and maximum fence length requirements shown in the following table:

Slope	Steepness	Slope Length/Fence Length (ft.)		
		Standard	Reinforced	Super
<2%	< 50:1	300/1500	N/A	N/A
2-10%	50:1 to 10:1	125/1000	250/2000	300/2500
10-20%	10:1 to 5:1	100/750	150/1000	200/1000
20-33%	5:1 to 3:1	60/500	80/750	100/1000
33-50%	3:1 to 2:1	40/250	70/350	100/500
>50%	> 2:1	20/125	30/175	50/250

**Standard Silt Fence (SF)** is fabric rolls stapled to wooden stakes driven 16 inches in the ground.

**Reinforced Silt Fence (RSF)** is fabric placed against welded wire fabric with anchored steel posts driven 16 inches in the ground.

**Super Silt Fence (SSF)** is fabric placed against chain link fence as support backing with posts driven 3 feet in the ground.

4. Silt fence shall be removed as soon as the disturbed area has achieved final stabilization.

The silt fence shall be installed in accordance with the appropriate details. Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent sediment bypass. Butt joints are not acceptable. A detail of the silt fence shall be shown on the plan. See Figure 5.30 on page 5.56 for Reinforced Silt Fence as an example of details to be provided.

### Criteria for Silt Fence Materials

1. Silt Fence Fabric: The fabric shall meet the following specifications unless otherwise approved by the appropriate erosion and sediment control plan approval authority. Such approval shall not constitute statewide acceptance.

Fabric Properties	Minimum Acceptable Value	Test Method
Grab Tensile Strength (lbs)	110	ASTM D 4632
Elongation at Failure (%)	20	ASTM D 4632
Mullen Burst Strength (PSI)	300	ASTM D 3786
Puncture Strength (lbs)	60	ASTM D 4833
Minimum Trapezoidal Tear Strength (lbs)	50	ASTM D 4533
Flow Through Rate (gal/min/sf)	25	ASTM D 4491
Equivalent Opening Size	40-80	US Std Sieve ASTM D 4751
Minimum UV Residual (%)	70	ASTM D 4355

Super Silt Fence

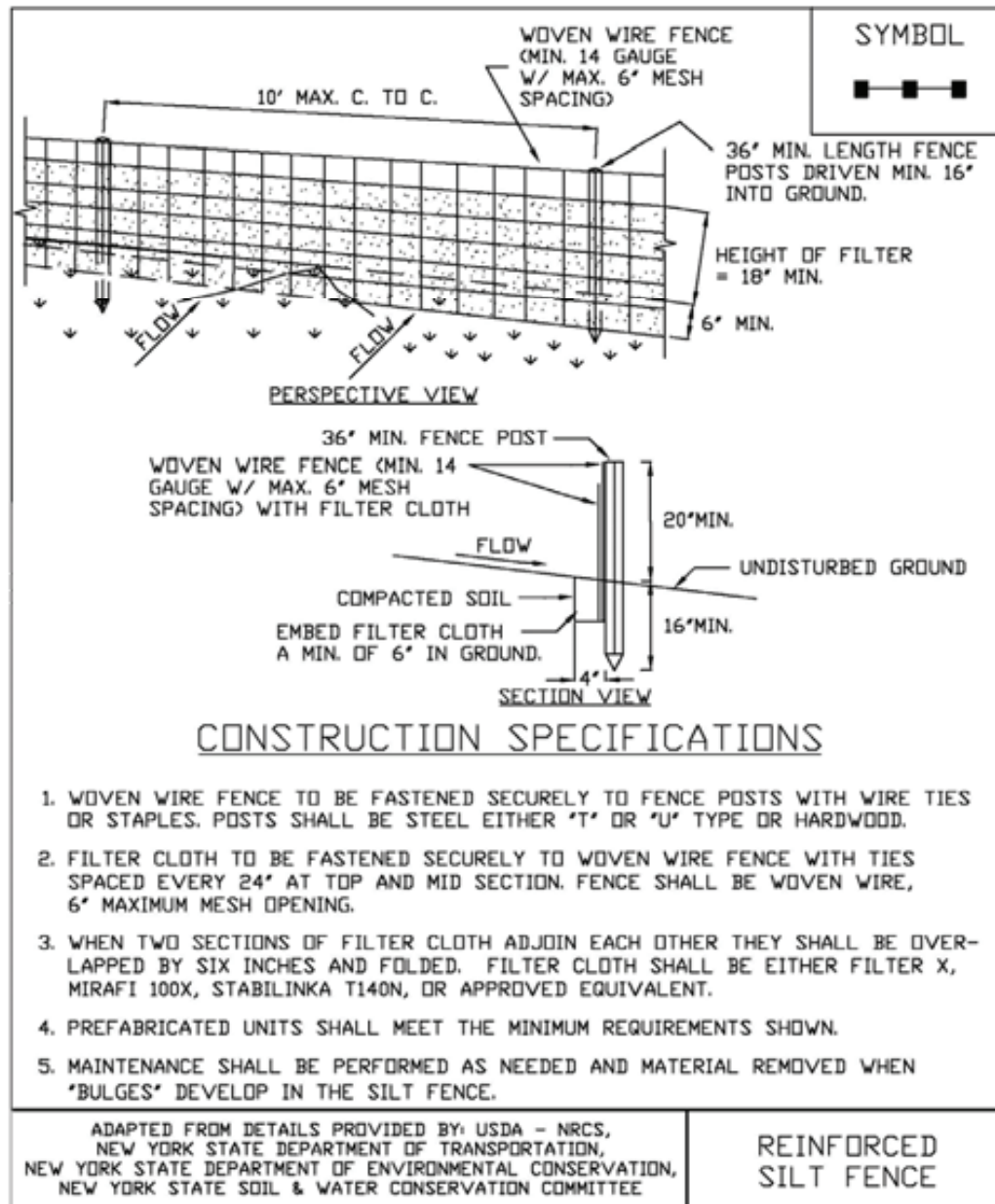


2. Fence Posts (for fabricated units): The length shall be a minimum of 36 inches long. Wood posts will be of sound quality hardwood with a minimum cross sectional area of 3.5 square inches. Steel posts will be standard T and U section weighing not less than 1.00 pound per linear foot. Posts for super silt fence shall be standard chain link fence posts.
3. Wire Fence for reinforced silt fence: Wire fencing shall be a minimum 14 gage with a maximum 6 in. mesh opening, or as approved.
4. Prefabricated silt fence is acceptable as long as all material specifications are met.

Reinforced Silt Fence



**Figure 5.30  
Reinforced Silt Fence**



**APPENDIX D**  
**SWPPP DOCUMENTS**

**STORMWATER POLLUTION PREVENTION PLAN  
SPILL RESPONSE REPORT**

**Within 1 hour of a spill discovery less than 2 gallons in volume the following must be notified:**

1. Michael Davidson
2. ABD Engineers, LLP, 518-377-0315
3. Town of Guilderland, 518-356-1980

**Within 1 hour of a spill discovery greater than 2 gallons in volume the following must be notified:**

1. NYSDEC Spill Response Hotline 800-457-7362
2. Michael Davidson
3. ABD Engineers, LLP, 518-377-0315
4. Spill Response Contractor, *e.g.* Kleen Resources, 518-462-0400 or others by contractor.
5. Town of Guilderland, 518-356-1980

**Please complete following information:**

1. Material Spilled: \_\_\_\_\_
2. Approximate Volume: \_\_\_\_\_
3. Location: \_\_\_\_\_
4. Distance to nearest down gradient drainage way: \_\_\_\_\_
5. Distance to nearest down gradient open water: \_\_\_\_\_
6. Temporary control measures in place: \_\_\_\_\_

**SIGNATURE OF PERSON REPORTING SPILL AND COMPLETING FORM:**

\_\_\_\_\_  
**PRINT NAME, TITLE AND COMPANY:**

\_\_\_\_\_  
**DATE AND TIME OF SPILL:**

\_\_\_\_\_  
**DATE AND TIME REPORTED:**

**TOWN OF GUILDERLAND  
PUBLIC NOTICE OF HEARING BEFORE  
ZONING BOARD OF APPEALS**

Notice is hereby given that the Zoning Board of Appeals of the Town of Guilderland, New York, will hold a public hearing pursuant to Articles IV & V of the Zoning Law on the following proposition:

Special Use Permit/Variance Request No. 4768

Request of Michael Davidson for a Special Use Permit under the Zoning Law to permit: the construction of a 9,960sf Local Mixed-Use Building on a vacant parcel. A variance is requested to permit the development of more than 125% of the required parking.

Per Articles IV & V Sections 280-26, 280-40, 280-51 & 280-52 respectively

For property owned by Michael Davidson

Situated as follows: Twenty West Drive (future address 97-99) Altamont NY 12009

Due to COVID-19 gathering restrictions, plans are only available for public inspection on the Town website at <https://www.townofguilderland.org/zoning-board-appeals> . Said hearing will take place on the 21<sup>st</sup> of April, 2021 at 7:00pm. Members of the public may listen to and view the meeting live on Verizon channel 34 and Spectrum channel 1303, on the Town website, and may dial 1-929-205-6099 for meeting id 840 3829 2241 using passcode 486698 to participate in the public comment period.

Dated: April 15, 2021

  
Jacqueline M. Coons  
Chief Building & Zoning Inspector

SWIS	PRINT KEY	NAME	ADDRESS	PAGE # 1
013089	39.00-2-17	Larry E Noyes	1657 Helderberg Ave,Schenectady, NY 12306	
013089	39.00-2-18	Milagro Delgado Irrevocable Trust	5220 Western Tpke,Alamont, NY 12009	
013089	39.00-2-22	Christopher Kotecki	6491 Vosburgh Rd,Altamont, NY 12009	
013089	39.00-2-87	Garrison Development Group LLC	395 Mariaville Rd,Schenectady, NY 12306	
013089	39.00-2-88	Abdul Jabbar Mohammad	100 Twenty West Dr,Altamont, NY 12009	
013089	39.00-2-89	Nathan Pannucci	102 Twenty West Dr,Altamont, NY 12009	
013089	39.00-2-90	Raymond W Davis	104 Twenty West Dr,Altamont, NY 12009	
013089	39.00-2-91	Kimberly M Pfeiffenberger	106 Twenty West Dr,Altamont, NY 12009	
013089	39.00-2-92	Joseph A Barbera Sr	108 Twenty West Dr,Altamont, NY 12009	
013089	39.00-2-103	Michael J Davidson	42 Sweetie Ln,Altamont, NY 12009	
013089	39.00-2-104	Matthew M Hulihan	101 Twenty West Dr,Altamont, NY 12009	
013089	39.00-2-105	Patrick Chatigny	103 Twenty West Dr,Altamont, NY 12009	
013089	39.00-2-106	Michael Collins	105 Twenty West Dr,Altamont, NY 12009	
013089	39.00-2-107	Adam Labuda	107 Twenty West Dr,Altamont, NY 12009	
013089	39.00-2-108	Garrison Development Group LLC	395 Mariaville Rd,Schenectady, NY 12306	
013089	39.00-2-19.1	Vosburgh Corner Assoc LLC	800 Troy Schenectady Rd,Latham, NY 12110	



## Guilderland Fire District

2303 Western Avenue  
Guilderland, NY 12084  
(518) 456-5000  
Fax (518) 456-1621

November 27, 2019

Ken Kovalchik – Town Planner  
Jacqueline Coons – Chief Building Inspector  
Town of Guilderland Planning and Building Departments  
Town Hall  
Guilderland, NY 12084

The Guilderland Fire District would like to make some comments on the following planned project being proposed for development in the Guilderland Fire District. The district requests these issues be addressed by the appropriate board for the protection of our residents and the citizens of the Guilderland Fire District in the interest of public safety relative to fire protection.

### **PROJECT:** 20 West Plaza, (97-99) Twenty West Drive

#### **Concerns:**

- Turning Radius: Request a turning radius plan showing the use of Westmere T99 turning radius around the building which would satisfy the requirements of the Guilderland Fire District for the turning radius for all apparatus. The current plan does not appear to allow for ease of operation and very narrow drive isles which would impede fire apparatus response.
- Operation space for outriggers of ladder truck, minimum of 20' on all sides of building
- The Fire District would request a second entrance as a means of entrance and egress for other incoming apparatus and departing customers
- Fire Department Sprinkler Connection: Determination to be made by the Fire District
- Enunciator Panel Location: Determination to be made by the Fire District
- The Fire District would request to review and approval of fire related issues prior to the final approval of the final project plans by either boards or the building department.
- The Fire District would also request final sign off on issues prior to the issuance of a CO
- Other: The parking around the building seems to be very tight, in the event of a fire situation, the apparatus would have trouble maneuvering around the building along with being close to the exposure which could cause concern for firefighting operations

Thank you again for your time

Brian Forte and David Messercola  
Station Administrators  
Guilderland Fire District

CC: Town Board  
Stephen Feeny – Planning Board  
Thomas Remmert – Zoning Board  
Lou Vitelli – Building Inspector



**ALBANY COUNTY PLANNING BOARD  
NOTIFICATION**

**RECOMMENDATION DATE: November 21, 2019**

**Case #:** **10-191103398**  
**Applicant:** **Spruce Plaza**  
**Project Location:** 1 Twenty West Drive  
**Tax Map Number:** 39.00-2-103  
**Referring Agency:** Town of Guilderland Zoning Board of Appeals  
**Considerations:** Request for a special use permit to allow the construction of a 14,740 SF mixed-use building, parking spaces, and landscaping

**ACPB Recommendation:** Defer to local consideration.

1. This Board has found that the proposed action will have no significant countywide or intermunicipal impact. Defer to local consideration.

**Advisory:**

1. The town should ensure that the property owner is aware of the regulations for construction activities that disturb land greater than one acre.

Laura Trivison, Senior Planner  
 Albany County Planning Board

**NOTE:**

- This recommendation is rendered in compliance with applicable requirements of Section 239 of New York State General Municipal Law. Final determination on this matter rests with the appropriate municipal body.
- A recommendation of "APPROVE" or "MODIFY LOCAL APPROVAL" should not be interpreted as a recommendation by this body that the referring agency approve the matter referred. Such recommendation does not indicate that this body has reviewed all local concerns; rather the referral has met certain countywide considerations. Evaluation of local criteria is the responsibility of the referring agency.
- General Municipal Law Section 239 requires that the local agency notify the county within thirty days of its final action. Please use the OFFICIAL NOTICE OF LOCAL ACTION form that is attached for this purpose.
- General Municipal Law Section 239 sets forth the procedural requirements for taking local action contrary to the County Planning Board's recommendation of objection or conditional approval.
- Albany County is required to submit a Municipal Separate Storm Sewer System Permit (MS4) (No. GP-0-10-002) Notice of Intent (NOI) to comply with the NYS DEC permit for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Construction Activity Permit No. GP-0-1-001 issued by NYSDEC is also required for activity with soil disturbances of one acre or more. The law is required by the Clean Water Act to control point source discharges to ground water as well as surface waters.

**449 New Salem Road, Voorheesville, NY 12186**  
**TELEPHONE: (518) 655-7932 FAX: (518) 765-3459**

In compliance with Article 12-B, Section 239 of New York State General Municipal Law, this serves as official notification to the Albany County Planning Board of the action taken on the application described above.

**LOCAL ACTION ON ACPB RECOMMENDATION:**

- AGREED WITH COUNTY PLANNING BOARD RECOMMENDATIONS TO MODIFY OR DISAPPROVE
- OVER-RULED COUNTY PLANNING BOARD RECOMMENDATIONS TO MODIFY OR DISAPPROVE

**LOCAL DECISION ON PROJECT:**

- PROJECT APPROVED
- PROJECT DISAPPROVED

VOTE RECORDED: \_\_\_\_\_ DATE OF LOCAL ACTION: \_\_\_\_\_

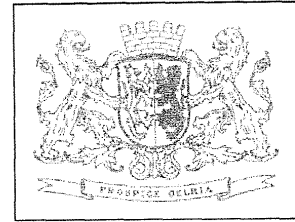
**Set forth the reasons for any action contrary to the ACPB recommendations (use additional sheets if needed):**

SIGNED: \_\_\_\_\_ TITLE: \_\_\_\_\_

## TOWN OF GUILDERLAND

### Planning Department

Town Hall, Route 20  
P.O. Box 339  
Guilderland, NY 12084-0339  
Phone: (518) 356-1980 x 1061  
Fax: (518) 356-5514  
Email: kovalchikk@togny.org



**Peter G. Barber**  
Supervisor

**Kenneth Kovalchik, AICP**  
Town Planner

### MEMORANDUM

To: Thomas Remmert, Chairman  
& Town Zoning Board

FROM: Kenneth Kovalchik, AICP, Town Planner

DATE: February 18, 2020

SUBJ: Local Mixed Use Building – 97/99 Twenty West Drive  
**Site Plan Report Associated with a Special Use Permit for a Local Mixed Use Building**

#### Background

The Planning Board reviewed the site plan at their December 11, 2019 and February 12, 2020 Planning Board meetings. The Board provided recommendations to reduce the number of proposed parking spaces; remove parking spaces near the eastern entrance, remove the parallel parking spaces adjacent to Western Avenue; add pedestrian connectivity from the parking lot to the building and to add landscaping.

The applicant has reduced the size of the building from a previously proposed 14,740 square feet building to a 12,500 square feet building. The property consists of 1.82 acres and is located in the Local Business (LB) District. The site is located at the entrance to the Twenty West subdivision and has frontage on Route 20 and Twenty West Drive. Access to the site is proposed to be provided from Twenty West Drive. Uses proposed within the mixed use building include a dental office, day spa, restaurant with courtyard and rooftop dining, law office and one apartment.

#### NYS Department of Transportation

The applicant has been in communication with the NYS Department of Transportation (DOT) regarding allowing access to the site from Route 20. The DOT concluded they will not permit access to the site from Route 20 stating access can be provided from Twenty West Drive.

#### Albany County Planning Board

The Albany County Planning Board (ACPB) reviewed the application at their November 21, 2019 meeting and found that the proposed action will have no significant countywide or intermunicipal impacts. The ACPB recommended to defer to local consideration. The ACPB provide one advisory related to regulations for construction activities for land disturbance greater than 1 acre.

#### Guilderland Fire District

The Guilderland Fire District (GFD) reviewed the plans and provided comments to the Town in a letter dated November 27, 2019. The GFD commented they will require a second means of ingress/egress to the

Visit the Town of Guilderland Website at <http://www.townofguilderland.org>

site for fire safety related concerns. It is recommended the applicant work with the GFD to determine the location and design of the emergency vehicle entrance.

**Planning Board Recommendations**

The Planning Board recommends approval of the site plan based on the following conditions:

1. A cross access agreement should be provided between the subject parcel and 5180 Western Turnpike.
2. Emergency access should be provided from 5180 Western Turnpike and reviewed by the Guilderland Fire District.
3. A 6' tall decorative fence should be provided on the south property line.
4. A landscaping plan should be provided, including a planting schedule.
5. A lighting plan should be provided.

cc: J. Coons

Town of Guilderland  
PO Box 339  
Guilderland, NY 12084  
(518) 356-1980 - Phone  
(518) 356-1990 - Fax



### Application for Sign Permit

DATE: 4-15-21

**APPLICANT INFORMATION:**

Name CLOVER POND VINEYARD Owner STATE  
Mailing Address \_\_\_\_\_ Mailing Address \_\_\_\_\_  
100 MANIPWA LN  
ALBANY  
Daytime Phone # 518-369-2243 Daytime Phone # \_\_\_\_\_  
Property Address 4730 WESTERN TURNPIKE  
"100 ACRE WOOD LINE"

Please fill in the appropriate information:

SIGN: \_\_\_\_\_ permanent \_\_\_\_\_ permanent  \* temporary \_\_\_\_\_ \* temporary  
free standing bldg. mounted free standing bldg. mounted  
\* please indicate length of time requested  
SIZE OF SIGN: 3 ft X 5 ft & \_\_\_\_\_ X \_\_\_\_\_ 6 MONTHS  
\_\_\_\_\_ X \_\_\_\_\_ size of letters/symbols  
 one sided or \_\_\_\_\_ two sided ESTIMATED COST \_\_\_\_\_  
15 sf per side \_\_\_\_\_ total sf of signage FEE \_\_\_\_\_  
5 ft total height of sign  
0 total sf of other signs for property  
\_\_\_\_\_ total sf of all signs combined for business

\*\* No more than 2 rectangles may be used to enclose and measure the area of a sign

ILLUMINATION: \_\_\_\_\_ internal \_\_\_\_\_ external (if external, where would lighting be placed)  
NONE

U.L. label required on all illuminated signs. Wiring and other electrical details shall be shown on plans.

**COLORED RENDERING SHALL INCLUDE THE FOLLOWING:**

- \_\_\_\_\_ dimensions on all items, including letters or symbols on signs
- \_\_\_\_\_ colors shown to be exactly as actual sign
- \_\_\_\_\_ materials used

\*\*\*\*\*NO CARDBOARD RENDERING WILL BE ACCEPTED\*\*\*\*\*

*Temp. Sign - At Entrance 20' front setback from NYS DOT ROW*

**PLOT PLAN:** One plot plan of the parcel on which the sign is to be placed shall also be submitted delineating property lines, street lines, building locations and dimensions and parking areas. Other signs shall be noted showing the exact location and size of said signs. Proposed sign shall be shown including dimensions of setbacks from property lines (20' front yard).

Where a parcel has more than one frontage, the primary frontage shall be designated on the plot plan.

Plot plan should show where the proposed sign would be located and shall include the length of building if sign will be placed on façade.

Please fill out a Building Permit for each individual sign. Said Building Permit shall be accompanied with a non-refundable check for the Building Permit fee and the following:

1. Structural details, including foundation, vertical and horizontal supports, framing and fastening and joining methods and materials.
2. Statement prepared by a licensed NYS engineer indicating sign structure complies with Building Code of NYS.

\*\*\***ALL** plans shall bear signature, mailing address and daytime phone # of the owner, applicant or designer responsible for design of sign.

I have read, understood and have provided the information requested from the checklist provided. I hereby make application to the Zoning Board of Appeals, Town of Guilderland, to permit the placement of a sign as described throughout and in the provided.

  
\_\_\_\_\_

FOR OFFICE USE ONLY

Reviewed by:

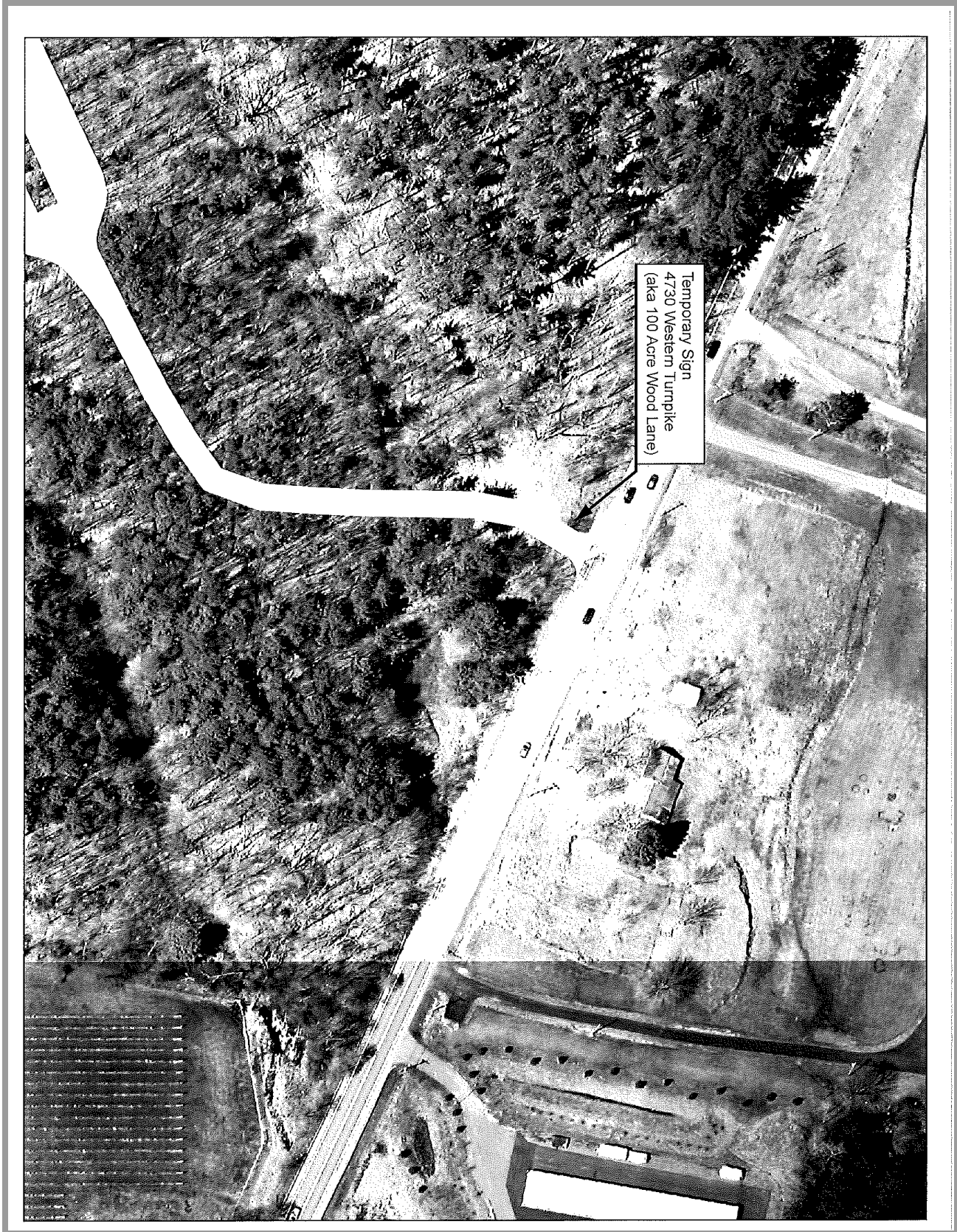
Date:

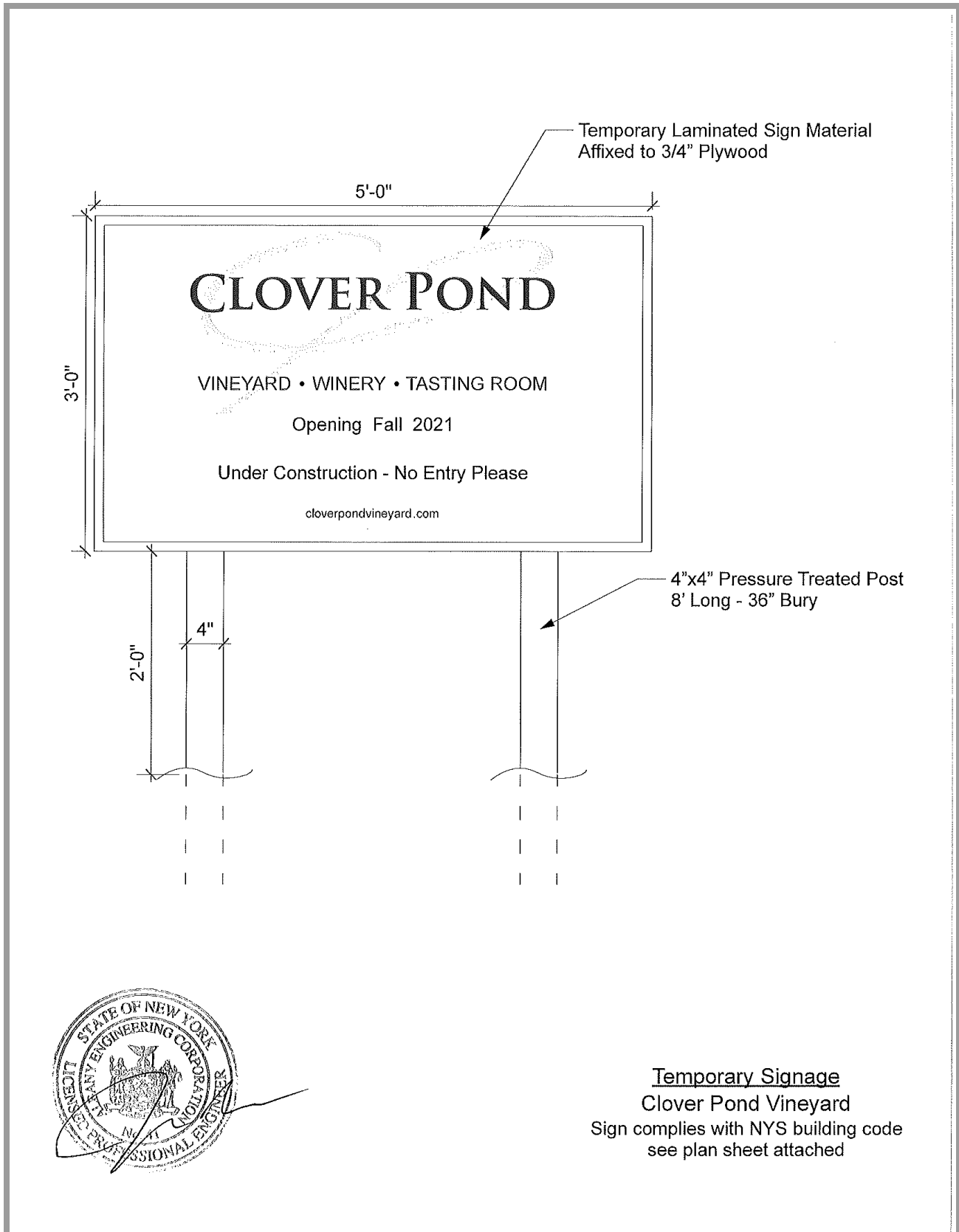
Check # and amount for building permit:

Scheduled for hearing on:

Approved: \_\_\_\_\_ Denied: \_\_\_\_\_

Sign permit # :





Temporary Signage  
Clover Pond Vineyard  
Sign complies with NYS building code  
see plan sheet attached



Vital Signs & Graphics, Inc.

518.237.8372

251 SARATOGA STREET COHOES, NY 12047

# CLOVER POND

VINEYARD • WINERY • TASTING ROOM

*Opening Fall 2021*

**Under Construction - No Entry Please**

cloverpondvineyard.com

SUBMITTED BY **SC**

NAME	AE	DATE	4/15/2021
COMPANY		ESTIMATE	
ADDRESS		COMMENTS	3'x5'
EMAIL			

**COMPLETE SIGN Service**

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