STORM WATER POLLUTION PREVENTION PLAN

for

Wegman Residence
4905, 4907, 4911 County Road 16
Canandaigua, New York

prepared by

Venezia and Associates
5120 Laura Lane
Canandaigua, NY 14424

April 14, 2017

STORM WATER
POLLUTION PREVENTION PLAN

4905, 4907, 4911 County Road 16
Canandaigua, New York

Table of Contents

Attachments

SPDES Permit	Notice of Intent for Storm Water Discharges Associated with Construction Activity Under an SPDES General Permit for Construction Activity GP-0-15-002.
Specifications	Sedimentation and Erosion Control Specification
Operations & Maintenance Plan	Stormwater System Operations and Maintenance Plan
SWPPP Plan	"Site Preparation and Erosion Control Plan" and "Erosion Control Details" date 4/14/17, prepared by Venezia and Associates.

OVERVIEW

In compliance with the provisions of the Clean Water Act and its amendments, operators of large and small construction activities must apply for coverage under the terms of the National Pollutant Discharge Elimination System (NPDES) general permit or by a state permit program. The U. S. Environmental Protection Agency (EPA) has issued the Construction General Permit (CGP) to authorize the discharge of stormwater associated with construction activities under the NPDES. New York State's SPDES (State Pollutant Discharge Elimination System) is a NPDES-approved program with permits issued in accordance with the Environmental Conservation Law (ECL). The CGP authorizes the stormwater discharges from large and small construction activities that result in a total land disturbance of equal to or greater than one acre, where those discharges enter surface waters of the United States or a municipal storm system leading to surface waters of the United States. The discharges are subject to the conditions set forth in the CGP.

The goal of the CGP is to reduce or eliminate stormwater pollution from construction activities by requiring the planning and implementation of a Stormwater Pollution Prevention Plan (SWPPP) to protect the water quality of receiving surface water bodies. The SWPPP identifies potential sources of pollution from the construction site that may affect the quality of storm water discharges, describes practices to be used to reduce such pollutants, and assures compliance with the terms and conditions of the CGP. The SWPPP is a comprehensive guide, which when followed, will result in the placement of erosion and pollution prevention measures, maintenance and monitoring of the in-place measures, and means to modify the plan.

In order to obtain coverage under the CGP for authorized stormwater discharges, the operator must prepare and submit a *Notice of Intent (NOI) for Storm Water discharges associated with Construction Activity under a SPDES General Permit*. A SWPPP must be prepared prior to the submission of an NOI. A copy of the SWPPP must be kept at the project site from project initiation to the date of final stabilization. Upon final stabilization of the site, a Notice of Termination must be submitted to the State of New York. A notice of the permit and SWPPP must be posted conspicuously near the entrance to the site.

In the State of New York, the Department of Environmental Conservation is the SPDES permitting authority.

STORM WATER POLLUTION PREVENTION PLAN

4905, 4907, 4911 County Road 16
Canandaigua, New York

Project Owner:	Daniel R. Wegman
Operator/General Contractor:	Wegmans/Dominick Caroselli
Civil Engineer:	Venezia and Associates

SITE DESCRIPTION

Description of the Project

The project involves the demolition of existing residences, on 4905 and 4907, and the construction of a new single-family home at 4905, with associated driveway, landscape improvements, and expansion on the existing septic at 4907. The new development will have a footprint of approximately 1.1 acres. According to soil survey information collected and mapped by the National Resources Conservation Service (NRCS) the site is mostly silt loams rated with a hydrologic soil group of B and C, depending on the slope.

Site Hydrology

The existing site slopes towards Canandaigua Lake which runs the entire length of the eastern edge of the property. The proposed project intends to maintain the existing drainage pattern while incorporating stormwater quality and quantity management systems including a driveway drainage collection swale and catch basin, area drain collection points, and roof downspout connections to perforated pipe trenches.

Due to the fact that the project is a Single-Family home <u>not</u> located in one of the watershed listed in Appendix C or <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E of the NYS DEC SPDES General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-15-002. Construction activities require the preparation of a Stormwater Pollution Prevention Plan that only include Erosion and Sediment Controls.

SEQUENCE OF MAJOR ACTIVITIES

The general order of activities shall be as follows:

1. Install all perimeter erosion and sedimentation control devices, stabilized construction entrance, tree protection devices, temporary sediment basin #2, and mobilize and set up temporary storage areas at the site.

2. Begin general construction activities to remove existing structures and to regrade existing driveway and extend to create new driveway. Remove trees down to stump where applicable (stump removal to happen during site work at location of stump).

3. Install interceptor swale at western limit of work, edge of new driveway. Establish vegetation above swale. Install temporary sediment basin #1.

4. Relocate 18" storm drain. Maintain existing storm drain until construction of new storm drain is complete. Contractor may need to coordinate switch over during a time of low flow.

5. Install foundation/basement, grade and stabilize relocated driveway and install new driveway drainage. Inlet protection shall be provided at all active storm inlet structures.

6. Construct new retaining walls and pool, begin house framing.

7. Complete sanitary and water plumbing connections.

8. Finalize landscape, permanently stabilize all areas around the house location.

9. Remove erosion controls and cease monitoring only after approval has been granted by the Town of Canandaigua and/or their project representative.

CONTROLS

In accordance with the Contract Documents, erosion and sedimentation controls will be incorporated during all phases of the project. Temporary stormwater controls will be implemented throughout the course of the project.

The sections of the project specifications that govern erosion and sediment controls are included at the end of this report.

Erosion and Sedimentation Controls:

Note: No temporary stockpiling of topsoil will be allowed on the site.

Temporary Controls

1. Contractor shall minimize site disturbance as much as possible during the duration of the project.
2. All areas disturbed by construction that will not see any further disturbance or construction activity will be stabilized no later than 7 days from the last construction activity in the area. Landscaped areas that are disturbed will stabilized by seeding. Paved areas that are disturbed will be stabilized with crushed stone.
3. Inlet protection to trap sediment and debris will be placed in catch basins and area drains.

Permanent Controls

When the project is completed, all disturbed areas will be permanently stabilized. The areas disturbed will be replaced in kind as shown in the Contract Documents (paved areas will be stabilized with bituminous concrete while landscaped areas will be stabilized by placing 4” of loam and hydroseeding).

Stormwater Management During Construction:

Stormwater runoff will be carefully managed during construction to limit the potential for sediment loss from the site.

Prior to beginning any excavation work on the site and after the demolition of the existing residence, the contractor shall construct a temporary sediment basin capable of capturing the anticipated runoff from the disturbed site. The temporary sediment basin is proposed to be located on the lake side of the project, where a relatively level area is available immediately adjacent to the planned construction zone. The existing driveway at 4905 will be utilized for construction access and will be reconfigured during the excavation for the foundation and the construction of the basement/foundation walls. Stabilization of the driveway sections being reconstructed will include establishment of permanent vegetation on all exposed surfaces including jute mesh erosion protection on slopes and the planting of mature trees and shrubs as depicted on the Landscape Architecture drawings.

OTHER CONTROLS

Waste Disposal:

Waste Material

1. Construction waste will be collected in dumpsters and emptied at least once per week and more often as necessary. Dumpsters will not be located in disturbed areas.
2. All waste will be removed from the site and legally disposed of.
3. No waste disposal will occur onsite.

Hazardous Waste

1. All hazardous materials used onsite will be disposed of in a manner specified by the manufacturer of the material and as required by local, state, and Federal regulation.
2. Each respective contractor and subcontractor will instruct site personnel using these materials in these practices.

Offsite Vehicle Tracking:

1. Surrounding streets in the vicinity of the site shall be inspected daily and swept as required during excavation activities.
2. A stabilized construction entrance will be provided at the vehicle entrances to reduce the tracking of sediments by site vehicles.

Dust Control:

1. The contractor shall employ dust control measures to minimize the creation of airborne dust during the entire construction process.
2. Water will be used as required for dust control.
3. Calcium chloride may be used for dust control only in areas not designated to receive loam and seed and/or landscaping.

MAINTENANCE AND INSPECTION PROCEDURES

1. All erosion control measures will be inspected at a minimum of once a week. The person responsible for the Contractor's operations onsite shall conduct the said inspections.
2. A monthly inspection report shall be filed in the Contractor's main offices and in the job site trailer.
3. All measures will be inspected after rainfall events of more than one-half inch (0.5") of precipitation.

4. All measures will be maintained in good working order and repairs will be made to measures within 24 hours of being reported.
5. Built-up sediment will be removed from the silt fences when it has reached one-third the height of the fence.
6. Catch basin and Area Drain inlets will be maintained with silt sacks or filter fabric to minimize sediment transport through the drainage system.
7. Silt fence and hay bale lines will be inspected to ensure these measures are intact. Hay bale lines will be securely staked in an unbroken line, and silt fences will be securely keyed into the ground and supported on stakes.
8. Permanent seeding will be inspected for washout and health of cover. Washouts will be repaired within 24 hours of being reported. Bare spots will be re-seeded.

NON-STORMWATER DISCHARGES

The following non-storm water discharges from the site may occur during the construction period: water from water line flushing if required.

INVENTORY FOR POLLUTION PREVENTION PLAN

The following material may be present onsite: concrete, detergents, paints and stains (enamel and latex), masonry, petroleum-based products, cleaning solvents, and fertilizers.

SPILL PREVENTION

Housekeeping Measures:

1. The Contractor's representative will inspect daily for proper use, storage, and cleanup of material used on the job site.
2. Store only enough material onsite required for that job as to satisfy current construction needs.
3. Store required materials in tightly lidded containers under cover.
4. Store materials in original containers with clearly legible labels.
5. Separate and store materials apart from each other.
6. Do not mix materials unless specifically in accordance with manufacturers' recommendations.
7. Use all products from a container before disposing of the container.
8. Follow manufacturers' instructions for handling, storage, and disposing of all materials.

Hazardous Materials:

1. Keep products in their original containers.
2. Original container labels should be clearly visible.
3. Material safety data sheets will be kept onsite and be available.
4. Follow all state, local, and Federal regulations regarding the handling, use, storage, and disposal of hazardous material.

Petroleum Products:

1. Only skilled personnel in a designated area will perform fueling of vehicles onsite.
2. Vehicles used onsite will be monitored for fuel and oil leaks.
3. Vehicles used onsite will be maintained in good working order.
4. Asphalt substances will be applied in accordance with manufacturers' recommendations.
5. The use of petroleum products as a release agent for asphalt transport trucks is prohibited.
6. Vehicle fueling will only be done in vehicle fueling area indicated.

Fertilizers:

1. Fertilizers will be used at the application rates called for in the specifications for the project.
2. Once applied, fertilizer will be worked into the soil to minimize wash off from irrigation and stormwater.
3. Fertilizer will be stored under cover.
4. The contents of partially used fertilizer bags will be transferred to resealable, watertight containers clearly labeled with their contents.

Paints:

1. All paint containers will be tightly sealed when not in use.
2. Remove excess paint in original labeled containers from the jobsite.
3. Paint will not be disposed of onsite. Remove excess paint material from the site and legally dispose of.

Concrete Trucks:

1. All concrete trucks will wash down in the designated area. Accumulated concrete shall be removed from the site and legally disposed off-site as required.

Spill Control Practices:

1. Manufacturers' recommended spill control methods will be posted and site personnel will be made aware of the requirements.
2. Cleanup supplies will be kept onsite in a materials storage area. This equipment will include: goggles, brooms, dustpans, mops, rags, gloves, oil absorbent, sawdust, plastic and metal trash cans, and other materials and supplies specifically designated for cleanup.
3. All spills will be immediately cleaned up after discovery.
4. The spill area will be well ventilated.
5. Cleanup personnel will wear suitable protective clothing.
6. Spills of toxic and/or hazardous material will be reported to state, local, and Federal authorities, as required by law. Spills shall also be reported immediately to the owner.
7. A spill incident report will be filed detailing the amount and extent of the spill, material(s) involved, and effectiveness of the cleanup. This report will be on file at the contractor's office, as well as kept onsite in the field office. A copy shall also be filed with the HCC.
8. The Contractor will designate someone onsite that will serve as the Spill Cleanup Coordinator. At least two other personnel will be designated as alternate spill coordinators. All spill control personnel will be trained in spill prevention, control, and cleanup. The names of the responsible personnel will be posted at the jobsite office of the Contractor.

Owner/Operator Certification

The owner or operator shall have each of the contractors and subcontractors identified, sign a copy of the following certification statement below before they commence any construction activity. The owner/operator shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the construction site.

Site Location: 4905, 4907, 4911 County Road 16 – Canandaigua, NY

> " I hereby certify 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 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 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."

_____ _____

Name and Title Date

_____

Company Representing

SWPPP Inspection Checklist

Wegman/Wehle Residence – SWPPP Inspection Checklist				
Date of inspection	Weather Conditions:		Inspected By:_____	
Item	Acceptable	Not Acceptable	Comment	P.I.C. of repair

Log of Changes to the SWPPP

Wegman/Wehle Residence – Log of SWPPP Changes		
SWPPP Change	Reason For Change	Change By:

Log of Corrective Action

Wegman/Wehle Residence – Corrective Action Log				
Inspector:				
Request Date	Action requested	Responsible Party	Re-Inspection Date	Additional Work Required

Log of Corrective Action

Wegman/Wehle Residence – Grading and Stabilization Activities Log		
Area of Grading Activity	Stabilization Activity	Notes:

VENEZIA
LAND SURVEYORS AND CIVIL ENGINEERS

Construction Stormwater Observation Report

Project Name & Location
_____
_____

Owner:
_____
_____

Contractor:
_____

Date:_____ Job No._____
Time:_____ Observations By:
Permit No._____ _____
Weather:_____ On-Site:_____
Soil Cond._____

Receiving Waters:

Wetland ☐	Storm Sewer ☐
Stream ☐	Others ☐
N/A ☐	

Construction Stage

Clearing & Grubbing ☐ Building Const. ☐
Temp. Stabilization ☐ Utility Installation ☐
Rough Grading ☐ Final Stabilization ☐
No Construction Activity ☐

Distribution:	Date:	Faxed	Mailed	E-mail
Owner		☐	☐	☐
Contractor		☐	☐	☐
Municipality		☐	☐	☐
Town Engineering		☐	☐	☐

Inspection Frequency: ☐Semiweekly ☐Weekly ☐Monthly ☐Other_____

Checklist: Yes	No	N/A		Comments:
☐	☐	☐	Is there evidence of turbidity in the receiving waters, or causing a substantial visible contrast to natural conditions?	
☐	☐	☐	Is evidence of sedimentation in the receiving waters?	
☐	☐	☐	Adjoining properties and downstream waterways protected from erosion and sediment due to stormwater runoff from the site?	
☐	☐	☐	Have all erosion control measures been installed/constructed per Grading & Erosion Control Plan?	
☐	☐	☐	Are check dams in good condition?	
☐	☐	☐	Has accumulated sediment been removed from check dams?	
☐	☐	☐	Do all operational storm inlets have adequate inlet protection?	
☐	☐	☐	Are perimeter erosion control measures functioning?	
☐	☐	☐	Have sediment basins and traps been constructed according to approved plans?	
☐	☐	☐	Have the stabilized construction entrances been installed & maintained?	
☐	☐	☐	Have public roadways and site access roads been kept free of mud & debris?	
☐	☐	☐	Is dust control needed?	
☐	☐	☐	Is Construction site litter & debris appropriately managed?	
☐	☐	☐	Are soil stabilization measures being implemented in a timely manner per plan?	
☐	☐	☐	Are finished cut & fill slopes adequately stabilized?	
☐	☐	☐	Is the site adequately stabilized at this time ?	

Checklist:				
Yes	No	N/A		Comments:
☐	☐	☐	Have temporary measures that are no longer needed been removed?	
☐	☐	☐	Are areas where soil disturbances have ceased been stabilized within 7 days of last disturbance?	
☐	☐	☐	Are soil stockpiles in appropriate locations and covered, mulched & vegetated?	
☐	☐	☐	Are additional temporary erosion control measures needed?	
☐	☐	☐	Have all permanent stormwater management facilities been installed/constructed?	
☐	☐	☐	Has construction sequences been followed?	
☐	☐	☐	Are erosion control measures in need of repair, replacement or enhancement?	
☐	☐	☐	Have all deficiencies from previous reports been addressed?	

☐ See attached sketch (if necessary) ☐ SWPP Modification (see attached) ☐ See Attached Photos

Misc. Notes:

_____ _____ _____

VENEZIA LAND SURVEYORS AND CIVIL ENGINEERS

☐ P.E. ☐ R.L.A. ☐ CPESC ☐ SWT

Date

This Record is intended to provide compliance with the provisions of Part II C.3a of the NYS DEC SPDES General Permit for Stormwater Discharges from Constructions Activities

NOTICE OF INTENT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITY GP-0-15-002

VENEZIA
AND ASSOCIATES
LAND SURVEYORS AND CIVIL ENGINEERS

0644089821

NOTICE OF INTENT

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

NYR _____
(for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-15-002

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

-IMPORTANT-
RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

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

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

Owner/Operator Contact Person First Name
KAREN

Owner/Operator Mailing Address
100 WEGMANS MARKET STREET

City
ROCHESTER

State
NY

Zip
14624 -

Phone (Owner/Operator)
585 784 2253

Fax (Owner/Operator)
- -

Email (Owner/Operator)
KAREN.KOSTEN@WEGMANS.COM

FED TAX ID
- (not required for individuals)

Project Site Information

Project/Site Name
WEGMAN/WEHLE RESIDENCE

Street Address (NOT P.O. BOX)
4905 COUNTY ROAD 16

Side of Street
○ **North** ○ **South** ● **East** ○ **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)
CANANDAIGUA

State NY | Zip **14424**- | County ONTARIO | DEC Region 8

Name of Nearest Cross Street
DEUEL ROAD

Distance to Nearest Cross Street (Feet)
1584

Project In Relation to Cross Street
○ **North** ● **South** ○ **East** ○ **West**

Tax Map Numbers
Section-Block-Parcel
140.18-1-11.000

Tax Map Numbers
11.000

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting): 310829

Y Coordinates (Northing): 4773997711122

2. What is the nature of this construction project?

○ **New Construction**

○ **Redevelopment with increase in impervious area**

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

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

Pre-Development Existing Land Use

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

Post-Development Future Land Use

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

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

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

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
2.22.2	1.11.1		

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

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

A	B	C	D
%	%	%	100 %

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

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

Start Date 06/01/2017 - **End Date** 06/01/2019

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

Name

CANANDAIGUA LAKE

9a. Type of waterbody identified in Question 9?

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

9b. How was the wetland identified?

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

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-15-002? ○ **Yes** ● **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-15-002? ○ **Yes** ● **No**

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

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

.

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

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

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

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

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

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

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

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

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

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

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

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

SWPPP Preparer
Venezia and Associates

Contact Name (Last, Space, First)
Joyce, Erin

Mailing Address
5120 Laura Lane

City
Canandaigua

State Zip
NY 14424-

Phone
5853902677

Fax
5853906131

Email
erin@veneziasurvey.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-15-002. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name
Erin

MI
V

Last Name
Joyce

Signature

Date
/ /

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

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

Temporary Structural

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

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

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

Permanent Structural

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

Other

Post-construction Stormwater Management Practice (SMP) Requirements

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

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

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

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

- ● All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).

- ○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

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

Total WQv Required

			.				**acre-feet**

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

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

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

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

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

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

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

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

Name

Manufacturer

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

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

Total RRv provided

. **acre-feet**

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

○ **Yes** ○ **No**

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

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

Minimum RRv Required

. **acre-feet**

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

○ **Yes** ○ **No**

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

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

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

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

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

WQv Provided

☐☐☐.☐☐☐ **acre-feet**

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

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

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

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

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

CPv Required

☐☐☐.☐☐☐ **acre-feet**

CPv Provided

☐☐☐.☐☐☐ **acre-feet**

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

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

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

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

Total Overbank Flood Control Criteria (Qp)

Pre-Development

☐☐☐.☐☐☐ **CFS**

Post-development

☐☐☐.☐☐☐ **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

☐☐☐.☐☐☐ **CFS**

Post-development

☐☐☐.☐☐☐ **CFS**

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

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

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

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

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

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

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

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

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

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

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

Owner/Operator Certification

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

Print First Name **MI**

Print Last Name

Owner/Operator Signature

Date / /

SEDIMENT AND EROSION CONTROL SPECIFICATION

VENEZIA
AND ASSOCIATES
LAND SURVEYORS AND CIVIL ENGINEERS

CONSTRUCTION SPECIFICATIONS
SEDIMENTATION AND EROSION CONTROL

PART 1 – GENERAL

1.1 DESCRIPTION OF WORK

A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:

1. The work of the Section consists of all sedimentation and erosion control as indicated on the Contract Drawings and/or specified herein and includes but is not limited to the following:

   a. Silt fence.
   b. Hay bale barriers.
   c. Temporary covers for drainage structures.
   d. Temporary protective soil coverings.

2. The Contract Drawings indicate the minimum requirements for sedimentation control. The Contractor shall install all measures needed to control sediment and erosion as required by the Contractor and Sub-contractor's construction methods and operations, the weather conditions, and as directed by the Engineer.

1.2 SUBMITTALS

1. The Contractor shall provide the following samples and/or submittals for approval. Do not order materials until approval of samples, certifications or test results has been obtained. Delivered materials shall closely match the approved samples.

   a. Siltation Fence: Submit manufacturer's literature, material specification, and installation instructions.

   b. Mulch Material: Submit one cubic foot sample(s).

   c. Mesh or Blanket Matting: submit one square foot sample(s) and manufacturer's literature, material specification, and installation instructions.

2. The Contractor shall install and maintain sedimentation control devices during construction to prevent the movement of sediment from the construction site to off site areas, into adjacent water bodies via surface runoff or into underground drainage systems. Measures to prevent the movement of sediment off site shall be installed, maintained, removed, and cleaned up at no additional cost to the Owner.

1.3 REFERENCE STANDARDS

A. The following standards are applicable to the work of this Section to the extent referenced herein:

1. "New York Standards and Specifications for Erosion and Sediment Controls (August 2005)", prepared by the New York State Department of Environmental Conservation.
2. "New York State Stormwater Management Design Manual (August 2010)", prepared by the New York State Department of Environmental Conservation.

1.4 EXAMINATION OF SITE AND DOCUMENTS

A. It is hereby understood that the Contractor has carefully examined the site and all conditions affecting work under this Section. No claim for additional costs will be allowed because of a lack of knowledge of existing conditions as indicated in the Contract Documents, or obvious from observation of the site.

B. Plans, surveys, measurements and dimensions under which the work is to be performed are believed to be correct, but the Contractor shall have examined them for himself during the bidding period and formed his own conclusions as to the full requirements of the work involved.

1.5 PERMITS, CODES AND REGULATION

A. Comply with all rules, regulations, laws and ordinances of the Town and State, and all other authorities having jurisdiction over the project site. All labor, materials, equipment and services necessary to make the work comply with such requirements shall be provided by the Contractor without additional cost to the Owner.

B. Comply with all applicable regulations of the New York State Department of Environmental Conservation (DEC) and the United State Environmental Protection Agency (EPA).

1.6 STORM WATER POLLUTION PREVENTION PLAN

A. A professional engineer has prepared a Storm Water Pollution Prevention Plan (SWPPP). The Contractor shall locate the SWPPP and review its contents thoroughly. Upon the award of the Contract, the Contractor becomes responsible for implementing the SWPPP and meeting the requirements and standards detailed within the SWPPP. The Contractor is also responsible for all record keeping associated with maintaining the SWPPP and for maintaining in good operating condition all SWPPP controls. The Professional Engineer who prepared the SWPPP shall modify the SWPPP as necessary to reflect changes in project scope, schedule, or approach, as coordinated with the Contractor. All labor, materials, equipment and services necessary to make the work comply with such requirements shall be provided by the Contractor without additional cost to the Owner.

B. The Contractor shall fill out all pertinent information within the SWPPP.

C. The Contractor shall locate the New York State DEC Division of Water “Notice of Intent” for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY under State Pollutant Discharge Elimination System (SPDES) General Permit #GP-0-15-002 (NOI) form in the SWPPP.

D. The Contractor is responsible for filling in the Contractor and Sub-Contractor information in the areas indicated within the SWPPP and for completing the Contractor’s Certification portion of the SWPPP.

E. The Contractor is responsible for maintaining the following records on site:
1. Completed SWPPP as indicated in sections B, C, D and E.
2. Completed Inspection Reports
3. Completed Maintenance Reports
4. Construction Activity Reports
5. Spill Records
6. Other Materials relevant to the NOI Permit and SWPPP
7. A copy of the Notice of Termination

F. The Contractor is responsible for filing a Notice of Termination once the project has been completed and is permanently stabilized. Stabilization is complete when all temporary storm water and erosion controls have been removed, all permanent storm water and erosion controls are in place and functional and all vegetated areas are at least 70% viable.

G. All labor, materials, equipment and services necessary to make the work comply with the above

requirements shall be provided by the Contractor without additional cost to the Owner."

PART 2 – PRODUCTS

2.1 SILTATION FENCE

A. Siltation fence shall consist of the following elements:

1. Fabric for siltation fence shall be a minimum width of 3 feet and conforming to the following criteria:

MINIMUM ACCEPTABLE

Fabric Properties	Value	Test Method
Grab Tensile Strength (lbs)	124	ASTM D 4632
Elongation of Failure (%)	15	ASTM D 4632
Mullen Burst Strength (PSI)	300	ASTM D 3786
Puncture Strength (1bs)	65	ASTM D 4833
Flow Rate (gal/min/sf)	10	ASTM D 4491
Apparent Opening Size (sieve)	30	ASTM D 4751
Ultraviolet Radiation (% strength retained)	70	ASTM D 4355

2. Use only commercially available fabric that is certified in writing by the manufacturer for the purpose intended.

3. Acceptable fabric materials include "Mirafi Envirofence" by TC Mirafi, "Style 2130" by Amoco Fabrics Co., and "FX-55" by Carthage Mills, or approved equal by the Engineer.

4. Silt fence posts: Posts may be wood or metal. Wood post shall be a minimum 1¼ inch by 1¼ inch by 5 feet long hardwood stakes commonly used to support siltation fabric. Metal posts shall be a minimum of 1 inch wide and 5 feet long. Posts shall be spaced at a maximum distance of 8 feet on center.

5. Provide suitable heavy nylon cord for securing abutting silt fence posts.

2.2 HAY BALES

A. Hay bales shall be of wire or nylon bound bales of hay.

B. Stakes for bales shall be one of the following materials. Lengths shall be approximately three feet (3').

1. Wood stakes of sound hardwood, one inch by one inch (1" x 1") in size.

2. Steel reinforcing bars of at least No. 4 size.

2.3 TEMPORARY COVERS FOR DRAINAGE STRUCTURES

A. Filter fabric for use as temporary covers for drainage structures shall be the same as noted above for siltation fence.

B. Wire mesh for use at temporary drainage structure covers shall be 6" x 6", W2.9 welded wire mesh.

C. Silt-Sac, or approved equal, may be used in lieu of hay bales and filter fabric at catch basins.

2.4 TEMPORARY PROTECTIVE COVERINGS

A. During establishment of vegetative covers, provide temporary protective coverings on ground areas subject to erosion of one of the following protective measures, as directed by the Engineer:

1. Mulch Materials — Rate of Application per 1000 sq.ft.

   a. Hay or straw — 90 lbs.

2. Mesh or Blanket Matting: Matting for erosion control on seeded or hydroseeded slopes, on planted surfaces, drainage swales, and on temporary or permanent slopes shall be:

   a. Biodegradable straw, excelsior wood, or coconut fiber and photodegradable netting sewn together with cotton thread.

   b. A flexible three-dimensional web of bonded polypropylene or PVC monofiliments.

   c. Heavy jute mesh shall be of a uniform open plain weave of unbleached singe jute yarn.

   d. Use only commercially available blanket mattings that are designed specifically for the intended use and certified in writing by the manufacturer for the purpose intended.

   e. Erosion control matting shall be "Soil Saver" manufactured by Jim Walls Co., Dallas, TX; "Heavy Duty Jute Mesh" manufactured by Lewis International Corp., Springfield, NJ or approved equal.

PART 3 – EXECUTION

3.1 GENERAL REQUIREMENTS

A. The Contractor shall provide suitable and adequate means of sedimentation and erosion control during construction. Control measures shall prevent all erosion, siltation and sedimentation of waterways, drainage systems, construction areas, adjacent areas and off-site areas. Work shall be accomplished on and/or adjacent to the following work areas:

1. Earthwork stockpiles and on-site storage and staging areas.
2. Cut and fill slopes and other stripped and exposed graded areas.
3. Constructed and existing swales and ditches.
4. Unestablished lawns and seeded embankments.

B. Means of protection as noted on the Contract Drawings indicate the minimum provisions necessary. Additional means of protection shall be provided by the Contractor as required for continued or unforeseen erosion problems, at no additional expense to the Owner.

C. Periodic maintenance of all sediment control installations shall be provided to ensure intended purposes are accomplished. Sediment control measures shall be in working condition at the end of each day.

D. After any significant rainfall, sediment control devices shall be inspected for integrity. Any damaged device shall be corrected immediately.

E. The Contractor shall provide adequate means of control of runoff, as to not detrimentally impact downstream conditions during construction. The Contractor shall plan his operations so that permanent drainage mitigation systems such as detention/retention/infiltration basins and chambers are in place and properly functioning prior to connecting upland drainage flows to these systems. The Contractor shall plan his operations such that downstream drainage mitigation measures are in place and functioning before attempting to tie in upgradient drainage systems.

F. In the event that the Contractor is unable to sequence the work so that construction of the permanent drainage mitigation systems precedes the upland work, then the Contractor shall submit a plan indicating his proposed methods of otherwise controlling runoff from the site.

G. The "New York Standards and Specifications for Erosion and Sediment Controls (August 2005)", should be consulted as a guide for the selection and installation of Best Management Practices to suit the conditions encountered.

3.2 SILTATION FENCE

A. Install silt fence, well-staked at maximum eight-foot intervals in locations as shown on Contract Drawings and as directed. Staking shall occur on the disturbed area side.

B. Secure fabric to posts on upstream side and bury fabric end within a 6-inch wide by 6-inch deep cut-in trench. Wrap the fabric bottom around the inside of the trench and backfill excavated soil into the fabric pocket to anchor the fence fabric.

C. Inspect siltation fence after major storm events and periodically and remove accumulated sediment and debris. If a breach or failure of the siltation fence occurs, the fence shall immediately be restored.

3.3 HAY BALE BARRIERS

A. Install hay in location as shown on Contract Drawings and as directed.

1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.

2. Each bale shall be embedded in the soil a minimum of four inches (4").

3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales and a minimum eighteen inches (18") into the soil. The first stake in each bale shall be angled toward the previously laid bale to force bales together.

B. Inspection shall be frequent and repair or replacement shall be made as needed.

C. Bales shall be removed when they have served their usefulness so as not to block or impede stormwater flows or drainage.

3.4 TEMPORARY COVERS FOR DRAINAGE STRUCTURES

A. Install temporary covers at drainage structure locations that may be subject to erosion infiltration and as directed by the Engineer.

B. Inspect drainage structures periodically. Remove sediment accumulation and regrade or replace materials as required.

3.5 TEMPORARY PROTECTIVE COVERINGS

A. Place temporary soil coverings to control erosion and sedimentation on all disturbed or graded areas as required by the construction methods employed and as directed by the Engineer. Erosion control

matting shall be installed in all areas seeded or hydroseeded with slopes of one vertical foot to three foot horizontal, or steeper, immediately after such areas have been seeded and a hay mulch applied as follows:

1. The area to receive matting shall have been recently seeded and shall have a smooth surface free front stones, clods or depressions.

2. Roll out of the matting perpendicular to the slope, do not stretch the fabric. In drainage swales, center the fabric along the flow line. Install the matting in a check slot at the top and bottom of the slope and at the edges of the area to be covered. Check slots shall be six inches deep and six inches wide. Fabric shall extend down one wall of the check slot and across the full width of the base. Overlap edges of matting rolls four (4) inches minimum and overlap the ends eighteen (18) inches minimum.

3. Install staples in check slots, edges, center and ends of rolls by driving specified steel staples two feet on center over the entire area to be covered except at check slots and ends of rolls, where staples shall be placed six inches on center. All staples shall be driven below finished grade.

4. Fill check slots with loam and tamp firmly.

5. Reseed check slots and all disturbed areas per Specifications.

6. Following matting installation, roll the entire area with a smooth drum roller weighing between fifty and seventy-five (50-75) pounds per linear foot of roller. The finished installation of matting shall be firmly in contact with the seeded area and provide a smooth, finished appearance free from lumps or depressions.

B. Install erosion control matting as a temporary ground cover in all disturbed or graded areas subject to erosion and as directed by the Engineer. The temporary ground cover shall protect the site from erosion until a full permanent lawn can be installed. Install and anchor in place temporary erosion control matting in accordance with manufacturer's printed instructions or as directed by the Engineer and remove all temporary erosion control matting prior to installation of a permanent lawn.

C. Inspect protective coverings periodically and reset or replace materials as required.

3.6 REMOVAL AND FINAL CLEANUP

A. Once the site has been fully stabilized against erosion, and with the approval of the Owner’s Representative remove sediment control devices and all accumulated silt. Dispose of silt and waste materials offsite. Regrade all areas disturbed during this process and stabilize against erosion with surfacing materials as indicated.

END OF SPECIFICATION

STORMWATER MANAGEMENT SYSTEMS
OPERATIONS AND MAINTENANCE PLANS

VENEZIA
AND ASSOCIATES
LAND SURVEYORS AND CIVIL ENGINEERS

Stormwater System Operations and Maintenance Plan

Project: Single Family Residence
New Home, Driveway Reconstruction

Location: 4905, 4907, 4911 County Road 16
Canandaigua, NY

Client: Daniel R. Wegman

Date: April 14, 2017

Prepared by: Venezia and Associates
5120 Laura Lane
Canandaigua, NY 14424
(585) 396-3267

Contents

Part I: Stormwater System Components

1. Closed Drainage System

The on-site stormwater management system, consisting of catch basins, area drains, and drainage swales collects runoff from the driveway, patio areas and roof top. Stormwater collected from these surfaces is treated and mitigated using several Stormwater Management Practices (SMPs) prior to discharging to Canandaigua Lake along the eastern edge of the property.

Part II: Construction of the System

Sediment and erosion control during construction will prevent possible damage to the drainage system and downstream facilities, especially Canandaigua Lake. The Contractor shall conform to the guidelines established by the project's Stormwater Pollution Prevention Plan (SWPPP), which include the following control measures:

1. Keep land disturbance to a minimum. Plan the phases of development so that only the areas actively being developed are exposed. All other areas should have natural vegetation preserved, have good temporary cover, or permanent vegetation established.

2. Stabilize disturbed areas. Permanent structures, temporary or permanent vegetation, and mulch should be employed as quickly as possible after land is disturbed.

3. Protect disturbed areas from stormwater runoff. Install erosion control or stormwater management measures to prevent water from entering and running over disturbed areas, and to prevent erosion damage to downstream facilities.

4. Install perimeter control practices. Use practices that isolate the development site from surrounding areas. Siltation fence and a temporary settlement basin shall be utilized.

5. Contractor shall clean/flush entire stormwater system prior to final acceptance of owner.

During construction, all water quality SMPs shall be protected and maintained as described in Part III below.

Part III: Maintenance of the System during Construction

Maintenance Schedule during Construction

	Inspection Frequency and Procedures	Maintenance Thresholds	Maintenance Action
Sweeping (driveway, walkway, parking areas)	Weekly or on an as needed basis • Check sediment/grit accumulation	If sediment/grit builds up on driveways, walkways, and parking areas	Sweep area with mechanical sweeper or hand sweep area.
Catch Basins/ Area Drains	Weekly and after storm events greater than or equal to ½ inch of rainfall over a 24-hour period	If the bottom of the basin appears to be collecting sediment	Clean sediment out
Check Dams	Weekly and after storm events greater than or equal to ½ inch of rainfall over a 24-hour period	If sediment accumulates behind dam prohibiting runoff to drain through the stone check dam	Clean sediment out
Swales @ Driveway	Weekly and after storm events greater than or equal to ½ inch of rainfall over a 24-hour period: Check for sediment, trash, and debris	If debris has accumulated	Remove debris

After the site has been fully stabilized all erosion control measures shall be removed.

All sediment removed from SMPs shall be disposed of legally by the Contractor.

During Construction the site shall meet NYSDEC and Canandaigua Stormwater and Erosion Control Standards.

Part IV: Maintenance of the System Post-Construction

	Inspection Frequency and Procedures	Maintenance Thresholds	Maintenance Action
Catch Basins/ Area Drains	Quarterly and after storm events greater than or equal to 2 inches of rainfall over 24-hours:	If the bottom of the basin appears to be collecting sediment	Clean sediment out
Swales @ Driveway	Inspect Monthly for first year, twice a year thereafter	Vegetation appears inadequate, signs of rilling and gullying. Sediment and debris accumulation	Repair rills and/or gullies. Replace dead vegetation. Remove Sediment and Debris

All sediment removed from SMPs shall be disposed of legally and in accordance with state and local requirements, by the Owner.

Part V: Repair of the System

The drainage system shall be maintained by the owner. The repair of any component of the system shall be made as soon as possible to prevent any potential pollutants including silt from entering downstream receiving bodies.

Part VI: Reporting

The Owner shall maintain a record of drainage system inspections and maintenance. The records shall be made available to the Town of Canandaigua and Town Engineer, as they are generated. Attached is a prototype of an inspection/maintenance log to be used.

STORMWATER MANAGEMENT SYSTEM

OPERATIONS AND MAINTENANCE LOG

Wegman/Wehle Residence
4905 County Road 16, Canandaigua

Inspected by:_____
Date:_____

Component	Status	Action Taken