ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT
SOUTHTOWNS ADVANCED WASTEWATER TREATMENT FACILITY PHASE 2 EXPANSION
ECSD NO. 3 CONTRACT NO. 75

Addendum 75.2

October 15, 2026

To:	Prospective Bidders
From:	Arcadis of New York, Inc. 50 Fountain Plaza, Suite 360 Buffalo, New York 14202
Owner:	Erie County Department of Environment and Planning 95 Franklin Street, Room 1034 Buffalo, New York 14202
Subject:	Southtowns Advanced Wastewater Treatment Facility Phase 2 Expansion, ECSD No. 3 Contract No. 75

This Addendum is part of the Bidding Documents and the Contract Documents and modifies the original Bidding Documents dated September 22, 2026, as indicated below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification for award of the associated Contract.

This Addendum consists of 9 pages and the attachments, if any, listed on the last page.

ADDENDUM 75.2

SEALS AND CERTIFICATIONS PAGE

Jason James Williams, PE License No. PE 088319 	The seal and signature to the left applies to the following Specifications Divisions and Sections of this Project Manual: • Section 01 26 00 • Section 01 41 26 • Section 01 58 00 • Section 01 64 00 • Section 01 77 19 • Section 02 82 33 • Section 02 83 19
Patricia Ann O'Loughlin, PE License No. PE 065051 	The seal and signature to the left applies to the following Specifications Divisions and Sections of this Project Manual: • Section 01 14 16 • Section 40 05 05
Christopher J.B. Jedrich, PE License No. PE 079007 	The seal and signature to the left applies to the following Specifications Divisions and Sections of this Project Manual: • Section 05 50 13

Errol Antonio Dawkins, RA License No. RA 023835 	The seal and signature to the left applies to the following Specifications Divisions and Sections of this Project Manual: • Section 07 11 13 • Section 07 14 16 • Section 07 21 05 • Section 08 11 13
Joshua Cochise Elston, PE License No. PE 105700 	The seal and signature to the left applies to the following Specifications Divisions and Sections of this Project Manual: • Section 26 12 16 • Section 26 13 26 • Section 28 46 20
Michael Anthony Terrana, PE License No. PE 088920 	The seal and signature to the left applies to the following Specifications Divisions and Sections of this Project Manual: • Section 31 25 00

Federico Guillermo Arango Jaramillo, PE License No. PE 093192  	The seal and signature to the left applies to the following Specifications Divisions and Sections of this Project Manual: • Section 40 61 13 • Section 40 61 70 • Section 40 66 33 • Section 40 70 05

Engineer's seal and signature does not apply to the documents that comprise Division 00, Bidding and Contracting Requirements.

It is a violation of applicable laws and regulations governing professional licensing and registration for any person, unless acting under the direction of the licensed and registered design professional(s) indicated above, to alter in any way the Specifications in this Project Manual.

CHANGES TO PRIOR ADDENDA

75.2.01 Drawing S22-03, RAS/WAS Pump Station Foundation Plan and Design Criteria: In the "design criteria RAS/WAS pump station" notes delete the following:

"Seismic Design Category: B
Basic Seismic force Resisting System - Ordinary Reinforced Concrete Shear Wall
Design Base Shear: V =
Seismic Response Coefficient: Cs =
Response Modification Coefficient: R = 4.0
Analysis Procedure Used: Equivalent Lateral Force Procedure"

CHANGES TO INTRODUCTORY INFORMATION

75.2.02 Section 00 01 10, Table of Contents: Delete the following:

"01 41 26 Storm Water Pollution Prevention Plan and Permit..... 01 41 26-1".

75.2.03 Section 00 01 10, Table of Contents: Delete the following:

"01 58 00 Project Identification..... 01 58 00-1".

75.2.04 Section 00 01 10, Table of Contents: Delete the following:

"01 64 00 Owner-Furnished Products..... 01 64 00-1".

CHANGES TO BIDDING REQUIREMENTS

75.2.05 Document 00 11 13, Advertisement for Bids: Replace the first sentence of the second paragraph with the following:

"Bids will be received by the **Commissioner of the Erie County Department of Environment and Planning** located at **95 Franklin Street, Room 1034, Buffalo, New York 14202**, until **November 19, 2026 at 2:00 pm local time**."

CHANGES TO CONTRACTING REQUIREMENTS

75.2.06 Section 00 73 01, Supplementary Conditions: In the table following SC-5.03.E, modify the date of the "Geotechnical Engineering Investigation…" report from "July 7, 2022" to "June 7, 2022".

75.2.07 Section 00 73 01, Supplementary Conditions: Delete Paragraph SC-6.04.F.11 in its entirety (including SC-6.04.F.11.a).

CHANGES TO SPECIFICATIONS

75.2.08 Section 01 14 16, Coordination with Owner's Operations: In Paragraph 1.4.C, replace "3. Step 2B: Training, Testing, and Startup of UNOX Reactors 3 and 4" with "2. Step 2B: Training, Testing, and Startup of UNOX Reactors 3 and 4."

75.2.09 Section 01 14 16, Coordination with Owner's Operations: In the third sentence within Paragraph 1.4.C.3.a replace the words, "21-day operation period" with the words, "30-day operation period".

75.2.10 Section 01 26 00, Contract Modification Procedures: Replace "30114371" in the footer of Section attachments for "Request for Interpretation", "Proposal Request", "Change Proposal", and subsequent blank page with "30119430".

75.2.11 Section 01 41 26, Storm Water Pollution Prevention Plan and Permit: Remove this Section in its entirety.

75.2.12 Section 01 58 00, Project Identification: Remove this Section in its entirety.

75.2.13 Section 01 64 00, Owner-Furnished Products: Delete this Section in its entirety.

75.2.14 Section 01 77 19, Closeout Requirements: Replace "30114371" in the footer of Section attachments for "Exhibit B – Sample Partial Checklist to Identify Readiness for Final Inspection" and "Exhibit C – Sample Letter for Contractor's Use in Requesting Final Inspection" with "30119430".

75.2.15 Section 01 77 19, Closeout Requirements: Delete "2025" in Section attachments for "Exhibit E – Form of Affidavit for Final Payment", "Exhibit F - County of Erie Office of the Comptroller Public Improvement Contract Certification (PICC-1)" and "Exhibit G – County of Erie Office of the Comptroller Public Improvement Contract Certification (PICC-2)."

75.2.16 Section 02 82 33, Removal and Disposal of Asbestos-Containing Material: Replace "30114371" in the footer of this Section with "30119430".

75.2.17 Section 02 83 19, Lead-Based Paint Remediation: In Paragraphs 1.1.A.5 and 1.1.A.5.a, replace "75.2" with "75.3" (in two places).

75.2.18 Section 02 83 19, Lead-Based Paint Remediation: Following Paragraph 1.1.A.5.a.1), add the following Paragraph:

"b. If lead-based paint is found to exist in the above areas or other areas of the Project, prepare and submit Change Proposal to Engineer for costs associated with removing and disposal of the associated lead-based paint. Such Work, when authorized, will be under Bid/Pay Item 75.3; if total costs exceed the hazardous materials contingency allowance amount in Bid/Pay Item 75.3, authorization for remediation of lead-based paint may be under Bid/Pay Item 75.2 (general contingency allowance) and/or a Change Order. Refer to Section 01 21 00, Contingency Allowances, and Section 01 26 00, Contract Modifications Procedures."

75.2.19 Section 05 50 13, Miscellaneous Metal Fabrications: Replace Paragraph 2.2.F.2 with the following:

"2. Stainless steel plate shall conform to ASTM A240."

75.2.20 Section 05 50 13, Miscellaneous Metal Fabrications: Add Paragraph 2.2.F.5 as follows:

"5. Provide stainless steel weir plates for the UNOX reactor effluent weirs and Secondary Clarifier Distribution Box weirs."

75.2.21 Section 07 11 13, Bituminous Damproofing: Replace the footer on each page of this Section with the following, where the "#" represents the page number of the Specification:

"30119430 07 11 13-# ECSD No. 3, Contract No. 75"

75.2.22 Section 07 14 16, Cold Fluid Applied Waterproofing: Replace Paragraph 2.1.C with the following:

"C. Provide 100 percent solids, flexible, two-component polyurethane elastomeric coating, minimum 60 mil thickness each coat with two coats."

75.2.23 Section 07 21 05, Building Insulation: Replace Paragraph 2.2 A.3 with the following:

"3. Perimeter Foundation and Under-Slab Insulations: Provide very high-load-resisting, rigid foam board insulation complying with ASTM C578, Type VI."

75.2.24 Section 07 21 05, Building Insulation: Replace Paragraph 2.2 A.4. with the following:

"4. Under roadway insulations: Provide very high-load-resisting, rigid foam board insulation complying with ASTM C578, Type V."

75.2.25 Section 08 11 13, Hollow Metal Doors and Frames: Replace Paragraph 2.1.C.1 with the following:

"1. Form frames of Type 316 stainless steel sheet material, 14-gauge minimum. Provide seamless frames for all Work, unless specified otherwise and shown as permitting exposed fasteners."

75.2.26 Section 26 12 16, Medium-Voltage Dry-Type Transformers: Replace the footer on each page of this Section with the following, where the "#" represents the page number of the Specification:

"30119430 26 12 16-# ECSD No. 3, Contract No. 75"

75.2.27 Section 26 13 26, Medium-Voltage Metal Clad Switchgear and Generator Connection Cabinet: Replace the footer on each page of this Section with the following, where the "#" represents the page number of the Specification:

"30119430 26 13 26-# ECSD No. 3, Contract No. 75"

75.2.28 Section 28 46 20, Addressable Fire-Alarm Systems: In Paragraph 1.1.B replace the words, "Contingency Allowance Item 75.4" with the words, ""Contingency Allowance Item 75.5".

75.2.29 Section 31 25 00, Erosion and Sediment Control: Replaced this Section in its entirety with Attachment 1.

75.2.30 Section 40 05 05, Exposed Piping Installation: Under Table 40 05 05-A, Exposed Piping Schedule, for all rows associated with "CLE" Service, replace the "Remarks" notes with "Clarifier effluent piping".

75.2.31 Section 40 61 13, Process Control System General Provisions: Replace Paragraphs 1.1.A.3.a through 1.1.A.3.f with the following:

"a. RAS/ WAS Pump Station Control Panel (RWPS-CP), NEMA 4X.

b. UNOX System Control Panel (UNOX-CP), NEMA 4X.

c. PLC 2 Control Panel (PLC-2-CP), NEMA 4X.

d. South Pipe Tunnel Vestibule Airlock Control Panel (STVA-CP), NEMA 4X.

e. RAS/WAS Pump Station – Miscellaneous System Network Cabinet (RWPS-MSNC), NEMA 4X.

f. Ventilation Monitoring and Alarm Stations, NEMA 4X."

75.2.32 Section 40 61 70, Process Control System Owner's Application Engineering Services: Replace the footer on each page of this Section with the following, where the "#" represents the page number of the Specification:

"30119430 40 61 70-# ECSD No. 3, Contract No. 75"

75.2.33 Section 40 66 33, Fiber Optic Cabling: Replace Paragraph 3.2.B with the following:

"B. The documentation shall include Optical Time Domain Reflectometer (OTDR) traces for each fiber of each reel at 850 nm and 1300 nm. Optical attenuation test data shall be provided for each fiber of each reel, as measured at 850 nm and 1300 nm."

75.2.34 Section 40 70 05, Primary Sensors and Field Instruments: Replace text in datasheet 3.5.A.8, line 19 and Line 29 with the following:

"Line 19: Class 1, Division 2

Line 29: Class 1, Division 2"

75.2.35 Appendix A, Storm Water Pollution Prevention Plan: Replaced this Appendix in its entirety with Attachment 2.

CHANGES TO DRAWINGS

75.2.36 Drawing C00-02, Site Staging and Earthwork Management Plan: Replace the Drawing in its entirety with the attached Drawing C00-02, Site Staging and Earthwork Management Plan.

75.2.37 Drawing C00-03, Site Details - I: Replace the Drawing in its entirety with the attached Drawing C00-03, Site Details - I.

75.2.38 Drawing C00-04, Site Details - II: Replace the Drawing in its entirety with the attached Drawing C00-04, Site Details - II.

75.2.39 Drawing C01-03, Partial Site Demolition Plan - II: Replace the Drawing in its entirety with the attached Drawing C01-03, Partial Site Demolition Plan - II.

75.2.40 Drawing C01-06, Site Demolition Partial Plan - V: Replace the Drawing in its entirety with the attached Drawing C01-06, Site Demolition Partial Plan - V.

75.2.41 Drawing C01-33, Erosion and Sediment Control Notes and Details - I: Replace the Drawing in its entirety with the attached Drawing C01-33, Erosion and Sediment Control Notes and Details - I.

75.2.42 Drawing A00-04, Door Schedule and Details: Following note 3 in the "door schedule notes" add the following:

"4. Stainless steel door frame detail to install the same as hollow metal door frame details."

75.2.43 Drawing M20-03, UNOX Reactors, UNOX Reactor No. 1 Enlarged Plans: Replace the Drawing in its entirety with the attached Drawing M20-03, UNOX Reactors, UNOX Reactor No. 1 Enlarged Plans.

75.2.44 Drawing M23-01, North and East Pipe Tunnels, East Pipe Tunnel Partial Plan and Section - I: In the "east pipe tunnel partial plan" replace the leader labeled, "FROM UNOX REACTORS NO. 5" with "FROM UNOX REACTOR NO. 6".

75.2.45 Drawing M23-01, North and East Pipe Tunnels, East Pipe Tunnel Partial Plan and Section - I: In the "east pipe tunnel partial plan" replace the leader labeled, "FROM UNOX REACTORS NO. 6" with "FROM UNOX REACTOR NO. 5".

75.2.46 Drawing M23-01, North and East Pipe Tunnels, East Pipe Tunnel Partial Plan and Section - I: In the "east pipe tunnel partial plan" replace the leader labeled, "AE-350" with "AE-355".

75.2.47 Drawing M23-02, North and East Pipe Tunnels, East Pipe Tunnel Partial Plan and Sections - II: In the "east pipe tunnel partial plan" replace the leader labeled, "AE-310" with "AE-315".

75.2.48 Drawing M23-03, North and East Pipe Tunnels, East Pipe Tunnel Sections: In section 1/M23-02 replace the leader labeled, "AE-310" with "AE-315".

ATTACHMENTS

75.2.49 Attachments hereto are as follows:

- Attachment 1 – Section 31 25 00, Erosion and Sediment Control
- Attachment 2 – Appendix A, Storm Water Pollution Prevention Plan
- Drawing C00-02, Site Staging and Earthwork Management Plan
- Drawing C00-03, Site Details - I
- Drawing C00-04, Site Details - II
- Drawing C01-03, Partial Site Demolition Plan – II
- Drawing C01-06, Site Demolition Partial Plan - V
- Drawing C01-33, Erosion and Sediment Control Notes and Details - I
- Drawing M20-03, UNOX Reactors, UNOX Reactor No. 1 Enlarged Plans

+ + END OF ADDENDUM 75.2 + +

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT
SOUTHTOWNS ADVANCED WASTEWATER TREATMENT FACILITY
PHASE 2 EXPANSION
ECSD NO. 3 CONTRACT 75

ADDENDUM 75.2 – ATTACHMENT 1
October 15, 2026

SECTION 31 25 00

EROSION AND SEDIMENT CONTROL

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope: Contractor shall provide all labor, materials, equipment, and incidentals required to implement erosion and sediment control as shown and specified in the Contract Documents.

B. Related Sections:
   1. Section 31 11 00, Clearing and Grubbing
   2. Section 32 23 05, Excavation and Fill
   3. Section 32 92 00, Landscaping
   4. Section 31 37 00, Riprap

C. References:
   1. Erosion and Sediment Control Guidelines: Conform to the latest edition of "New York Standards and Specifications for Erosion and Sediment Control" by NYS Department of Environmental Conservation Division of Water (i.e., Bluebook).
   2. Storm Water Management: Conform to the latest edition of "New York State Storm Water Management Design Manual" prepared by Center for Watershed Protection for NYS Department of Environmental Conservation.
   3. Project Specific Stormwater Pollution Prevention Plan (SWPPP). Contractor shall refer to the SWPPP for project specific details.
   4. SPDES General Permit for Construction Activity GP 0-25-001. The project, including Phase 1 and Phase 2, is authorized under GP 0-25-001 (SPDES Permit ID: NYR11L835).
   5. SPDES No. NYR00A951. The Southtowns AWTF is covered under the Multi-Sector General Permit for Industrial Activities regulated water quality discharge limits from one (1) designated stormwater outfall to Lake Erie.

1.2 RESPONSIBILITY

A. The project is covered under the SPDES General Permit for Construction Activity (SPDES Permit ID: NYR11L835). A project specific SWPPP has been prepared documenting the intended erosion and sediment control measures and post-construction stormwater management required for both the Phase 1 and Phase 2 portions of the work. The Contractor is required to follow the recommendations outlined in the SWPPP and conduct all work, inspections, and maintenance in accordance with the SWPPP and the

General Permit. The Contractor must conduct his/her work to minimize impacts to adjacent properties, site operations, and visual water quality impairments leaving the site.

1. The project SWPPP must be located on site and available to the public during normal business hours. The SWPPP may be kept at a facility trailer or within a designated SWPPP mailbox. The Contractor is responsible for ensuring the continued availability of the SWPPP and the updating of the document, as necessary. Weekly SWPPP inspection reports must be added to the SWPPP binder, as well as any documented changes to the SWPPP, and/or erosion and sediment control plan changes. Trained Contractor training certifications must be kept current and located within the SWPPP binder.

B. The Southtowns AWTF is covered under the Multi-Sector General Permit for Industrial Activities (NYR00A951) regulating the water quality discharge limits from one (1) designated stormwater outfall to Lake Erie. The outfall is located at the northwest corner of the project site and collects runoff from the entire site via the closed drainage network depicted on the plans. The AWTF is required to conduct effluent monitoring and reporting at the outfall quarterly for visual wet weather monitoring. The monitoring must be made at least once in each of the following quarters: January 1 through March 31, April 1 through June 30, July 1 through September 30, and October 1 through December 31. All samples must be collected during the first 30 minutes (or as soon as practical, but not to exceed one hour) of the discharge of the outfall resulting from a qualifying storm event with at least 0.1 inch of precipitation. If visual monitoring indicates increased turbidity or cloudiness attributable to Contractor's operations, Contractor shall be responsible for corrective action, which may include sweeping, inlet cleaning, and high-pressure jetting of the stormwater collection system. Contractor shall maintain regular contact with Owner regarding potential testing dates and may be directed to provide pre-emptive sweeping or inlet cleaning in advance of potential testing dates.

C. The Contractor shall provide temporary sediment and erosion control measures required within limits of the work, including any staging areas, throughout construction in conformance with the plan, and as directed by Engineer. Place the permanent control practices required before the removal of the temporary storm water diversion and control items. An example of anticipated erosion and sediment control measures is provided in the Contract Documents. The measures are schematic in nature and it is the responsibility of the Contractor to adjust the erosion and sediment control plan, measures, and locations in accordance with his/her means and methods of operation.

D. During construction conduct operations in such a manner as to prevent or reduce to a minimum any damage to any water body from pollution by debris, sediment, chemical or other foreign material, or from the manipulation of equipment and/or materials in or near a stream or ditch flowing directly to a stream. Any water which has been used for wash purposes or other similar operations which become polluted with sewage, silt, cement,

concentrated chlorine, oil, fuels, lubricants, bitumens, or other impurities shall not be discharged into any water body.

E. In the event of conflict between these specifications and the regulation of other Federal, State, or local jurisdictions, the more restrictive regulations shall apply.

F. The Contractor is to provide adequate erosion and sediment control measures such that the project work will not cause or contribute to a violation of water quality standards, Laws, or Regulations, including:

   a. Turbidity increases that will cause a substantial visible contrast to natural conditions.
   b. Increase in suspended, colloidal and settleable solids that would cause sediment deposition or impair receiving water quality and use.
   c. Presence of residue from oil and floating substances, visible oil, and globules of grease.

G. Contractor shall pay civil penalties and other costs incurred by Owner, including additional engineering, Resident Project Representative (RPR), and inspection services associated with non-compliance with applicable permits related to storm water discharges associated with construction activity and sediment and erosion controls associated with the Work. Owner may deduct as set-offs such amounts from payments due Contractor.

1.3 DEFINITIONS – TEMPORARY STRUCTURAL MEASURES

A. Check Dam: Small barrier or dam constructed of stone, bagged sand or gravel to reduce velocity of flow.

B. Construction Road Stabilization: Stabilization of construction roads to control erosion.

C. Stabilized Construction Entrance: A stabilized pad of aggregate underlain with geo-textile where traffic enters a construction site to reduce or eliminate tracking of sediment to public roads.

D. Dust Control: Prevent surface and air movement of dust from disturbed soil surfaces.

E. Earth Dike: A temporary berm or ridge of compacted soil, located to channel water to a sediment trapping device.

F. Level Spreader: A non-erosive outlet for concentrated runoff to disperse flow uniformly across a slope.

G. Perimeter Dike/Swale: A temporary ridge of soil excavated from an adjoining swale located along the perimeter of the site or disturbed area to prevent runoff from entering a disturbed area and preventing sediment laden runoff from leaving a construction site.

H. Pipe Slope Drain: A structure placed from the top of a slope to the bottom of a slope to convey runoff without causing erosion.

I. Portable Sediment Tank: A compartmented tank to which sediment laden water is pumped to retain sediment before pumping the water to adjoining drainage ways.

J. Rock Dam: A rock embankment located to capture sediment.

K. Rolled Erosion Control Product: A temporary, biodegradable jute fabric placed over steep slopes to aid with reducing soil erosion while grass is being established.

L. Sediment Basin: A barrier constructed across a drainage way to intercept and trap sediment.

M. Sediment Traps: control device formed by excavation to retain sediment at a storm inlet or other points of collection.

N. Silt Fence: A barrier of geo-textile fabric installed on contours across the slope to intercept runoff by reducing velocity. Replace, at minimum, after 1 year.

O. Super Silt Fence: A barrier of geo-textile fabric installed with a chain link fence backing to provide additional support for filtration of sediment laden runoff from steep slopes with a larger drainage area. Replace geotextile fabric, at minimum, after 1 year.

P. Storm Drain Inlet Protection: A semi-permeable barrier installed around storm inlets to prevent sediment from entering a storm drainage system. Multiple varieties of storm drain inlet protection are available. Refer to the NYSDEC Standards and Specifications for Erosion and Sediment Control for details. The project plans identify the preferred methodology as silt sock with a stone barrier when in paved areas; however, drop inlet protection may be permitted at select locations, as approved by the Engineer.

Q. Straw/Hay Bale Dike: Intercept sediment laden runoff by reducing velocity. Replace after 3 months.

R. Access Waterway Crossing: A structure placed across a waterway to provide circulation for construction purposes.

S. Storm Drain Diversion: The redirection of a storm drain line or outfall channel for discharge into a sediment trapping device.

T. Temporary Swale: A temporary excavated drainage swale.

U. Turbidity Curtain: A flexible, impenetrable barrier used to trap sediment when construction occurs within water bodies or along a shoreline.

V. Wash Rack: A temporary washing station placed at stabilized construction entrances to allow washing of construction equipment tires prior to exiting the construction site. This practice may be utilized during periods of heavy earth moving operations to reduce sediment tracking outside of the project area.

W. Water Bars: A ridge or channel constructed diagonally across a sloping road or right-of-way.

X. Refer to New York Standards and Specifications for Erosion and Sediment Control for a full list of definitions.

PART 2 - PRODUCTS

2.1. DESCRIPTION

A. Erosion and sediment control products shall conform to the Contract Drawings, SWPPP, General Permit, this Section, and the New York Standards and Specifications for Erosion and Sediment Control. Where requirements are not specifically provided in this Section or shown on the Drawings, provide materials and installation in accordance with the New York Standards and Specifications for Erosion and Sediment Control.

2.2 MANUFACTURERS AND SPECIFICATIONS

A. Silt Fence:

1. Posts: 1” galvanized steel channel post, “T” post or 1-1/4" nominal square hardwood stake of sound quality.

2. Fence: Minimum 14.5 gage, with maximum 6-inch mesh opening.

3. Geotextile Fabric: “Mirafi 100X” as manufactured by TC Mirafi, Pendergrass, GA 30567, 1-888-795-0808 or acceptable equivalent.

B. Prefabricated Silt Fence:

1. “Mirafi Envirofence” as manufactured by TC Mirafi, Pendergrass, GA 30567, 1-888-795-0808; “AEF Pre-assembled Silt Fence” as manufactured by American Engineering Fabrics, Inc., Bridgewater, MA, 02324, 1-800-770-2666 or acceptable equivalent.

C. Rolled Erosion Control Products (RECP) and Soil Stabilizers:

1. These materials shall meet the requirements of NYSDOT Standard Specifications §713-07 Rolled Erosion Control Products (RECP) and shall be of the Type and Class specified in the contract documents.

2. All RECP shall be biodegradable.

3. Soil stabilizers shall conform to NYSDOT Standard Specifications §713-07 Class IV Soil Stabilizers and may be used in lieu if RECP, if approved by the ENGINEER.

D. Compost Filter Sock:

1. Filter sock must comply with New York State Standards and Specification for Erosion and Sediment Control.

2. The compost infill 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 manmade foreign matter.

3. Filter sock must be Biodegradable 5 mil HDPE (photodegradable is not acceptable).

4. Following construction, any remaining filter sock must be removed, or slit open and mulch spread, as approved by ENGINEER.

5. Mesh opening: 3/8”

6. Tensile strength: 26 psi (min.)

7. Minimum functional longevity: 6 Months

8. Compost Standards

   a. Organic Matter Content: 25% - 100% (dry weight)

   b. Organic Portion: Fibrous and Elongated

   c. pH: 6.0 – 8.0

   d. Soluble salt concentration: 5.0 dS/m maximum

   e. Particle Size:

(1) 1" screen – 100% passing

(2) 3/8" screen – 10% to 50% passing

E. Stone Filling: Stone filling shall meet the requirements of NYSDOT Standard Specifications §620-2.02 Stone Filling, light.

F. Temporary Seed: Seed shall be ryegrasses (annual or perennial) or cereal grasses suitable to the area and as a temporary cover which will not compete with the grasses sown later for permanent cover. Seed application rates shall be in conformance with the New York Standards and Specifications for Erosion and Sediment Control.

G. Mulch: Mulch shall be in conformance with NYSDOT Standard Specifications §713-18 Hay, §713-19 Straw, or §713-11 Wood Fiber Mulch.

H. Stabilized Construction Entrance: Construction entrances shall consist of a geotextile, crushed stone or gravel and, if necessary, a drainage pipe to maintain ditch flow

1. Geotextile: Geotextile shall meet the requirements of NYSDOT Standard Specifications §207-2 Materials,

2. Geotextile Stabilization, Strength Class 1.

3. Crushed Stone or Gravel: Crushed stone or gravel shall be 6 inches of coarse aggregate material meeting the gradation requirements of size designation #3 on NYSDOT Standard Specifications Table 703-4.

4. Drainage Pipe: CONTRACTOR shall provide a drainage pipe sized with sufficient capacity to carry ditch flow. The pipe dimension shall be consistent with the modified soil erosion and sediment control plan approved by the ENGINEER. The drainage pipe may consist of new or used material in satisfactory condition and suitable for the intended use. ENGINEER will reject any materials determined to be unsatisfactory.

I. Dewatering Filtration Devices: Dewatering filtration devices shall consist of portable sediment tanks, filtered pumps, and/or sediment filter bags. All devices must be appropriately sized for the flow and sediment level of the discharge. Material specifications and appropriate devices are outlined in the New York State Standards and Specifications for Erosion and Sediment Control.

J. Drop Inlet Protection: Drop Inlet Protection is an alternate practice for protection of storm drain catch basins within areas of active traffic. Filter sacks should only be used where no other inlet protection alternatives are feasible or functional.

1. Geotextile shall meet NYSDOT Standard Specifications §713-21.

K. Refer to the NYSDOT list of approve manufacturers for erosion and sediment control devices.

PART 3 - EXECUTION

3.1 WORK AREAS

A. Engineer has the authority to limit the surface area of erodible earth exposed by earthwork operations and to direct the Contractor to provide immediate temporary or permanent erosion measures to minimize damage to property and contamination of watercourses and water impoundments. Under no circumstances will the area of erodible earth material exposed at one time exceed 5 acres without prior authorization from the Owner/Operator and Qualified Inspector.. Engineer may increase or decrease this area of erodible earth material exposed at one time as determined by their analysis of project, weather and other conditions. Engineer may limit the area of clearing and grubbing and earthwork operations in progress commensurate with the Contractor's demonstrated capability in protecting erodible earth surfaces with temporary, permanent, vegetative or biotechnical erosion control measures.

B. Schedule the work to minimize the time that earth areas will be exposed to erosive conditions. Provide temporary structural measures immediately to prevent any soil erosion.

C. Provide temporary seeding on disturbed earth or soil stockpiles exposed for more than 7 days if area active area of disturbance exceeds 5 acres, or 14 days if active area of disturbance is less than 5 acres, or for any temporary shutdown of construction. In spring, summer or early fall apply rye grass at a rate of 1 lb/ 1000 sq.ft. In late fall or early spring, apply certified Aroostook Rye at a rate of 2.5 lbs./ 1000 sq. ft. Apply hay or straw at a rate of 2 bales/ 1000 sq. ft. or wood fiber hydromulch at the manufacturer's recommended rate. Hay or straw shall be anchored.

D. Coordinate the use of permanent controls or finish materials shown with the temporary erosion measures.

E. All erosion and sediment control devices must be maintained in working order until the site is stabilized. All preventative and remedial maintenance work, including clean out, repair, replacement, re-grading, re-seeding, or re-mulching, must be performed immediately.

F. After final stabilization has been achieved temporary sediment and erosion controls must be removed. Areas disturbed during removal must be stabilized immediately.

3.2 INSPECTIONS

A. In accordance with the requirements of the SPDES General Permit for Construction Activity (GP 0-25-001) and the Project SWPPP, the Contractor is to designate a Trained Contractor to inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are maintained in effective operating condition at all times.

a. The Trained Contractor shall be an employee that has received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the Trained Contractor shall receive four (4) hours of training every three (3) years. The name, credentials, and training certifications of the Trained Contractor must be submitted to the Engineer and included in the SWPPP documentation maintained on site. Refer to the General Permit for alternate qualifications.

b. When the Trained Contractor identifies the need for corrective action, corrective action shall begin within one business day and be completed within five business days where no engineering design is required. Where engineering design is required, the engineering design process shall begin within five business days and corrective action shall be completed within a reasonable time frame, but not later than 60 calendar days, unless a different time frame is required by the General Permit or SWPPP.

B. The Owner/Operator will provide a Qualified Inspector to conduct weekly site inspections in accordance with the SWPPP and the General Permit. The Qualified Inspector will coordinate with the Engineer, Owner/Operator, and Contractor to provide inspection reports and recommendations for corrective actions. The Contractor shall implement corrective actions in accordance with the time specifications outlined in Section 3.2.A.b. above.

C. The Trained Contractor inspections and the Qualified Inspector inspections shall continue until the site has achieved final stabilization, as defined by the General Permit, and determined by the Qualified Inspector.

+ + END OF SECTION + +

Stormwater Pollution Prevention Plan (SWPPP) for Construction Activities

Southtowns Advanced Wastewater Treatment Facility Phase 1 and Phase 2 Expansion

3690 Lakeshore Rd.
Hamburg, NY 14219

Permit ID: NYR11L835

Erie County Department of Environment and Planning, Division of Sewerage Management

Room 1034, 95 Franklin St.
Buffalo, NY 14202

November 6, 2023
Revised October 8, 2026

Prepared by
JM Davidson Engineering, D.P.C.
935 Sheridan Drive | Suite 120
Tonawanda, New York 14150
P: 716.453.1646
www.jmdavidsoneng.com



JM Davidson Engineering, D.P.C.

Table of Contents

Table of Contents ..... **i**

Attachments ..... **ii**

1 **General Information** **1**

1.1 Project Site Information 1

1.2 Contact Information / Responsible Parties 1

1.2.1 Qualified Inspector 2

1.2.2 Trained Contractor 2

1.3 Project Scope 2

1.4 Type of Project 3

1.5 Size of Project 3

1.6 Changes to the SWPPP 3

2 **Site Specifics** **4**

2.1 Project Location 4

2.2 Waterbodies and Drainage Paths 4

2.3 Existing Land Use and Vegetation 4

2.4 Site Soils 4

2.4.1 Discussion of Soil Characteristics and Soil Erosion Hazard Potential 5

2.5 Cultural Resources Involvement 5

3 **Construction Phasing** **5**

3.1 Suggested Sequence of Construction 5

4 **Erosion and Sediment Control Measures** **6**

Off 12

4.1 -Site Material 12

4.2 Applicable Standard Sheets and Special Details 12

5 **Pollution Control Measures** **13**

5.1 Material Handling and Waste Management 13

5.2 Proper Use Areas 15

5.3 Spill Prevention 16

6 **Existing Watershed Information** **17**

6.1 Receiving Waterbody 17

6.2 Existing Watershed Information 17

7 Post-Construction Stormwater Control Practices 17
7.1 Green Infrastructure 18
7.1.1 Reduction of Impervious Cover 18
7.1.2 Runoff Reduction Techniques 18
7.2 Maintenance Schedule of Post-Construction Stormwater Control Practices 19
8 Inspections and Maintenance 20
8.1 General Maintenance Inspections 20
8.2 Qualified Inspector Inspections 20
8.3 Disturbance of Over 5 Acres Inspections 21
8.4 Temporary Shut Down Inspections 21
8.5 Partial Project Completion Inspections 22
8.6 Corrective Actions 22
9 Record Retention 22
9.1 Records To Be Retained On-Site 22
9.2 Records To Be Retained Following Construction 24

Attachments

Attachment A: Forms
Attachment B: Maps
Attachment C: Soils Report
Attachment D: Cultural Resource Documentation
Attachment E: Erosion and Sediment Control Plans - Phase 2 Only
Attachment F: NYSDEC Technical Field Guidance – Spill Reporting and Initial Notification Requirements
Attachment G: Stormwater Calculations and Plans
Attachment H: SPDES General Permit for Construction Activity GP-0-25-001
Attachment I: Ash Landfill Reclamation
Attachment J: ORF Influent and Oxygen Feed Replacement
Attachment K: Phase 2 Revised Plans

1 General Information

A stormwater management assessment has been conducted for the proposed project to protect the waters of the State of New York from adverse impacts of stormwater runoff. This Stormwater Pollution Prevention Plan (SWPPP) presents an analysis of the project in accordance with the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-20-001 and the New York State Stormwater Management Design Manual (NYSSMDM). The project has also received continuation of coverage under GP-0-25-001, see **Attachment A,** and is required to meet the substantive requirements of GP 0-25-001. This SWPPP has been modified from its original version to include updates regarding the Phase 2 of work, as the Phase 1 portion of work is substantially complete. Previous modifications to the SWPPP were made during Phase 1 and information regarding those changes are provided in **Attachments I and J;** this work is substantially complete. A modification to the SWPPP form for the Phase 2 work is provided in **Attachment K**. The complete set of plans for the Phase 2 work is incorporated by reference.

1.1 Project Site Information

Project/Site Name:	Southtowns Advanced Wastewater Treatment Facility Expansion				
Project Street/Location:	3690 Lake Shore Rd				
City/Town/Village:	Town of Hamburg	**State:**	NY	**Zip:**	14219
County:	Erie	**Regulated MS4 District?**	Y	**Name:**	Erie County
Latitude:	42.78692	**Longitude:**	-78.84907		
Estimated Area of Site:	43.2 ac	**Estimated Area of Disturbance:**	15.7 ac		

1.2 Contact Information / Responsible Parties

Owner:	Erie County Department of Environmental Protection Division of Sewerage Management David Millar, PE Assistant Deputy Commissioner 95 Franklin St. Buffalo, NY 14202	P: (716) 858-6499 E: David.millar@erie.gov
Engineer / Project Manager:	Arcadis of New York, Inc. Jason Williams, PE Principal Civil Engineer 50 Fountain Plaza Buffalo, NY 14202	P: (716) 667- 6603 E: Jason.williams@arcadis.com
SWPPP Preparer:	JM Davidson Engineering, DPC Krista Greer, PE, CFM 935 Sheridan Drive, Suite 120 Tonawanda, NY 14150	P: 716.453.1646 x702 E: kgreer@jmdavidsoneng.com

Contractor: **(To be completed prior to start of construction)**		P: E:

1.2.1 Qualified Inspector

The Owner/Operator shall designate a Qualified Inspector to conduct site inspections in accordance with the General Permit and this SWPPP.

Qualified Inspector: **(To be completed prior to start of construction)**	Anna Hongosh JM Davidson Engineering 935 Sheridan Drive, Suite 120 Tonawanda, NY 14150	P: 716.453.1646 E: ahongosh@jmdavidsoneng.com Certification: SWT#040T-101724-23 Exp. 10/17/2028

1.2.2 Trained Contractor

Pursuant to GP-0-25-001, prior to the commencement of construction activity, the Owner/Operator must identify the Contractor(s) and/or Sub-Contractor(s) responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion and sediment control practices and post-construction stormwater management practices included in this SWPPP. Each Contractor and/or Sub-Contractor shall designate at least one (1) individual certified to be the Trained Contractor responsible for the implementation of the SWPPP. A Trained Contractor must be on-site during all earth disturbing activities. Each Contractor and/or Sub-Contractor involved with earth disturbing activities must complete the certification **Contractor/Sub-Contractor SPDES Certification Form** included in **Attachment A** and provide proof of certification.

1.3 Project Scope

In February 2020, the NYSDEC issued an approval letter for the October 2015 "Updated Facilities Plan" as amended by the September 2019 "Updated Facility Plan – Summary Letter Report" (together "the Plan") for the expansion of the Southtowns Advanced Wastewater Treatment Facility (AWTF). The expansion must be completed as a requirement of the existing SPDES permit. The AWTF will be expanded by improving portions of the existing structures and treatment equipment on site and by constructing additional structures and treatment processes as needed to achieve the desired plant capacity. Roadways and sidewalks will be relocated or expanded as appropriate. Expected tasks include excavation, grading, drainage installation, utility relocation, roadway construction, building construction, equipment installation, and site restoration.

This project is a two-phase project; however, both phases of the work are addressed in this SWPPP. It is intended that this SWPPP document will be amended prior to the start of Phase 2.

The major site improvements scope of work for each phase is described below:

Phase 1: (Complete)

- Construction of ring road surrounding facility
- Modification of employee and visitor parking areas in northern portion of the parcel
- Construction of a new chlorine contact tank
- Construction of a new effluent pump station, electrical substation building, and generator
- Construction of a new overflow retention facility (ORF) effluent pipe to the plant outfall
- Construction of a new hydraulic relief

Phase 2:

- Construction of new clarifiers, with supporting return activated sludge and waste activated sludge pumping stations.
- Construction of new aeration system/UNOX reactors
- Construction of new tunnel section between the existing facilities and the new clarifiers.
- Construction of new roads, parking areas, and access locations in southern portion of project parcel.

1.4 Type of Project

In accordance with GP-0-25-001, Appendix B, Table 2, this project is a municipal facilities project and therefore requires post-construction stormwater management. This SWPPP includes provisions for erosion and sediment controls as well as for post-construction stormwater management practices.

1.5 Size of Project

The project is anticipated to disturb **15.7** acres of soil. Phase 1 is anticipated to disturb a maximum of 15 acres. Phase 2 is anticipated to disturb roughly 8 acres, much of which will overlap the Phase 1 disturbed area.

The area of disturbance for this project is anticipated to exceed 5 acres at a single time during various points of the construction.

Prior to exceeding the threshold of 5 acres of disturbance, it is the Contractor's responsibility to notify Qualified Inspector and Owner/Operator. The Qualified Inspector will notify NYSDEC or the regulating MS4 in writing of the intent to do so, and receive written authorization from the NYSDEC or MS4. The authorization letters and any necessary changes to the plan shall be included in this SWPPP. A sample **Notice of Intent to Disturb Greater Than 5 Acres of Soil Form** is included in **Attachment A.**

Changes to the SWPPP

The Contractor is responsible for implementation of the SWPPP and controlling the project worksite to achieve, at a minimum, the effluent discharge limitations as outlined in the General Permit. At times, this may require updates and changes to the SWPPP. The SWWPP shall be kept current, and changes made to reflect changes in the design, construction, and operation or in the maintenance of the project. Any changes to the SWPPP shall be documented and included with the SWPPP. The **Changes Required for the SWPPP Form**, see **Attachment A**, may be used for documenting SWPPP revisions. The completed forms shall be included as part of this SWPPP.

The complete set of construction drawings and specifications are provided as separate documents; however, they should be considered an integral component of the SWPPP and are referenced throughout this document.

2 Site Specifics

2.1 Project Location

The project is located in the Town of Hamburg in Erie County, NY. The Southtowns AWTF parcel is roughly 43 acres bounded by Lake Erie to the west and Lake Shore Road (US Route 5) to the east. New York State Office of Parks, Recreation, and Historic Preservation (NYSOPR&HP)'s Woodlawn Beach Park bounds the north side of the parcel and a private manufacturing facility is located to the south.

A Location Map is included in **Attachment B**.

2.2 Waterbodies and Drainage Paths

The predominant waterbodies and drainage paths within the project area are described in the following table and depicted on the Project Site Map included in **Attachment B**. The watershed characteristics of these waterbodies are described in Section 6.

Waterbodies & Drainage Paths Within Project Area			
Waterbody	**Location**	**NYSDEC Regulated / Class**	**GP-0-20-001 303(d) List?**
Closed Drainage System	On-site, outlets to Lake Erie at northwestern corner of parcel	No	No
Drainage Ditch	On-site/Off-site, located along the eastern and northern boundary, discharges to on-site closed drainage system.	No	No
Lake Erie	Off-site to the west	Yes - B	No

2.3 Existing Land Use and Vegetation

The site is used as a municipal wastewater treatment facility in an area zoned as M-2 Light Industrial by the Town of Hamburg. While most of the site has been cleared, vegetation consisting of brush and trees is present along the western edge of the site and in limited quantities along the northern and southern edges of the site. Some landscaping surrounds the main structure on site, and turf grass is prevalent in open areas.

A NYSDEC Coastal Erosion Hazard Area (CEHA) is located along the western boundary of the site. The vegetation, land use, and construction activities in this area are regulated by NYSDEC.

2.4 Site Soils

The USDA Web Soil Service mapper was used to determine the soil classifications within the project area. The soils are shown on the Soil Map included in **Attachment B** as well as the USDA Soil Report in **Attachment C**. The following provides a description of the likely soil types encountered within the project location.

Project Area Soils as Reported in the USDA Web Soil Survey					
Soil Symbol, Name, % Slope Range	Hydrologic Group (HSG)	Texture	Drainage Class	Erosion Hazard Potential[1]	% Within Disturbed Area
Be, Beaches	Unranked	Unclassified	Unclassified	Unranked	18%
Uc, Udorthents, smoothed	Unranked	Unclassified	Moderately well drained	Unranked	47%
Ud, Urban land	Unranked	Unclassified	Unclassified	Unranked	35%

2.4.1 Discussion of Soil Characteristics and Soil Erosion Hazard Potential

Due to the proximity to the Lake Erie shoreline, the surface soils at the project site are primarily sand and sand mixtures. The topography of the site is also generally flat, which isolated areas of elevation from fill materials. Erosion potential is limited.

2.5 Cultural Resources Involvement

A consultation was initiated with SHPO through CRIS. In a letter dated February 18, 2022, SHPO indicated that the project would have no effect on historic properties, including archaeological and/or historic resources and that no further correspondence for the project would be required. The letter is included in **Attachment D**.

3 Construction Phasing

3.1 Suggested Sequence of Construction

Prior to the start of construction, the Contractor shall submit to the Engineer for approval, a construction/progress schedule showing the order in which the Contractor proposes to carry out the work, the date on which the work on the project will start, the major items of work (earth work, excavation, mobilization, soil erosion control measures, highway reconstruction etc.), the critical features and the completed dates for completing each task.

The Contractor's work schedule and methods shall be consistent with the SWPPP or amended SWPPP. Once approved, the progress schedule shall become a part of the SWPPP.

The following list is a suggested sequence of major construction activities for the project to meet the NYSDEC Phase II erosion control requirements:

Phase 1 (Complete)

1. Establish contractor staging areas and install perimeter erosion and sediment controls.
2. Clear vegetation and demo existing facilities near new construction on northern side of parcel.
3. Construct ring road surrounding facility.
4. Expand parking area near front entrance, including drainage modifications.
5. Construct chlorine contact tank, pump station, substation building, and generator.
6. Install / relocate underground utilities.

[1] The ratings are an interpretation of the hazard of soil loss from off-road or off-trail areas of after disturbance activities that expose the soil surface. The ratings are based on slope, soil erosion factor K, and an index of rainfall erosivity.

7. Construct new ORF effluent pipe and hydraulic relief.
8. Construct new parking area west of chlorine contact tank.
9. Construct bioretention facilities.
10. Install new pavement.
11. Landscape and/or permanently seed completed areas.

Phase 2

1. Construct new temporary access roads.
2. Relocate impacted utilities in southern portion of site, including drainage.
3. Construct new clarifiers and UNOX reactors.
4. Install new yard piping.
5. Construct stormwater management facilities.
6. Install new pavement.
7. Landscape and/or permanently seed all completed areas.
8. Perform final site inspection.
9. Once entire facility is completely stabilized, remove remaining erosion and sediment control devices.

4 Erosion and Sediment Control Measures

An erosion control plan has been developed in accordance with the "New York Standards and Specifications for Erosion and Sediment Control". The Erosion and Sediment Control Plans can be found in **Attachment E** and are part of the overall construction documents. At this time, Phase 1 has been deemed substantially complete. Only the Phase 2 plans are included for reference.

The following table provides a description of anticipated erosion and sediment control measures, their anticipated installation periods and maintenance schedules, as well as the party responsible for their implementation. The location and details related to these control measures are shown on the Erosion and Sediment Control Plans, Notes, and Details sheets.

Should the erosion and sediment control devices shown on the plans not provide sufficient protection at the site or required adjustment and/or modification, it is the Contractor's responsibility to adjust the erosion and sediment control plan to meet the permit requirements, or at the direction of the Engineer or Qualified Inspector.

Erosion and Sediment Control Practices	
Stabilized Construction Entrance	
Stabilized construction entrances are required at locations where the construction equipment will enter and exit the work site onto adjacent roadways and paved areas. Anticipated locations are shown on the plans; however, additional locations may be necessary depending on the contractor's methods and sequence of operations. All contractors and construction equipment (including pick up trucks) and interior work personnel are required to utilize the stabilized construction entrances.	
Installation Schedule:	*Temporary* – Installed prior to earth disturbance
Maintenance and Inspection:	1) Aggregate may be replaced, as needed, to prevent tracking of sediments onto adjacent paved areas. 2) Adjacent paved areas shall be kept in a broom swept condition.
Responsibility:	Contractor
Dust Control	
The control of dust resulting from land-disturbing activities or the transport of materials to prevent surface and air movement of dust. Measures may include: vegetative cover, mulch, spray adhesives, or wetting of disturbed areas, providing wind breaks or barriers, or providing tarps over dump trucks transporting materials off of the project site.	
Installation Schedule:	*Temporary* – As needed.
Maintenance and Inspection:	Maintain dust control measures through dry weather periods until disturbed areas are stabilized.
Responsibility:	Contractor
Vehicle Wash Rack	
Vehicle Wash Racks may be placed at construction entrances that will experience heavy traffic loads during excavation and hauling activities. The wash racks allow for cleaning of vehicle tires prior to vehicles exiting the project site and entering public roadways. The wash racks will aid in reducing the amount of sediment tracked on to adjacent roadways.	
Installation Schedule:	*Temporary* - As needed, prior to heavy earth moving operations.
Maintenance and Inspection:	Routinely during use. Clean and empty wash rack as necessary.
Responsibility:	Contractor

Erosion and Sediment Control Practices	
Protecting Vegetation During Construction	
Areas outside of the Limits of Disturbance shall not be impacted. The Contractor shall take care to minimize impacts to vegetation not shown as being removed during the construction period. The limits of clearing shall be clearly marked prior to disturbance. Additionally, there are existing trees within the project area. Tree removal shall be in accordance with the plans or as approved by the Engineer. Tree and vegetation protection fencing may be required. **The area to the west is a NYSDEC controlled Coastal Erosion Hazard Area (CEHA), the boundaries of which are depicted on the contract documents. Vegetation removal in this area is regulated by NYSDEC. Existing vegetation shall be protected.**	
Installation Schedule:	*Temporary* – Installed prior to earth disturbance
Maintenance and Inspection:	Routinely through slope grading.
Responsibility:	Contractor
Silt Fence and/or Compost Filter Sock	
Silt fence and/or Compost Filter Sock will be required at locations as shown on the plans. These may be used as perimeter control, barriers adjacent to paved areas, at the toe of slope, around stockpiles, adjacent to existing waterways, or around yard inlets. Compost Filter Sock shall be sized appropriately for the upstream slope and drainage area.	
Installation Schedule:	*Temporary* - Silt fence/compost filter sock shall be installed prior to the upstream earth disturbing activity. Devices may need to be temporarily moved for equipment access. Equipment SHALL NOT drive over device. Devices to remain in place until upstream area is fully stabilized.
Maintenance and Inspection:	Silt fence/compost filter sock shall be inspected daily by trained contractor on site and replaced as necessary. Any maintenance required shall be conducted within 1 day.
Responsibility:	Contractor
Super Silt Fence	
Super Silt Fence is a reinforced silt fence practice specifically designed for larger disturbed areas with steep slopes that may result in a significant sediment erosion during rain events.	
Installation Schedule:	*Temporary* – Prior to the construction of steep slopes at locations as shown on plans.
Maintenance and Inspection:	Fence should be inspected daily by trained contractor on site and replaced as necessary. Any maintenance shall be conducted within 1 day.
Responsibility:	Contractor

Erosion and Sediment Control Practices	
Rock Outlet Protection	
Riprap shall be placed at the outlet of the drainage outfalls as shown on the plans. Details regarding rock outlet protection size and shape included on the plans.	
Installation Schedule:	*Permanent* – Installation following the final grade establishment of the pipe outfall.
Maintenance and Inspection:	During construction, weekly and following rain events. Maintenance to be started within 1 day. Following construction, periodically following large rain events. Maintenance to be started within a reasonable timeframe.
Responsibility:	During Construction – Contractor Following Construction - Owner
Slope Stabilization / Bank Protection	
Riprap shall be placed at the outfall channel as depicted on the plans.	
Installation Schedule:	*Permanent* – Installation following the final grade establishment of the outfall.
Maintenance and Inspection:	During construction, weekly and following rain events. Maintenance to be started within 1 day. Following construction, periodically following large rain events. Maintenance to be started within a reasonable timeframe.
Responsibility:	During Construction – Contractor Following Construction - Owner
Drainage Inlet Protection	
Gravel bags, fabric inserts, silt fence, excavated stone berms, or other approved equal, to be placed around existing and newly installed drainage inlets during at locations shown on the plans. Drop inlet fabric devices shall only be used at locations approved by the Engineer/Qualified Inspector. Drop inlet fabric devices must meet the specifications provided, including steel frame, grab handles, and overflow areas.	
Installation Schedule:	*Temporary* – installed prior to earth disturbance around drainage structures. Removed after final stabilization of the upstream area is complete.
Maintenance and Inspection:	Weekly and following storm events. Maintenance to be started within 1 day.
Responsibility:	Contractor

Erosion and Sediment Control Practices	
Check Dams	
Clean, washed stone check dams will be placed at the outlet channel and the existing ditch to keep sediment laden waters from disturbed areas from impacting adjacent waterbodies. Additionally, the check dams may be used to help control surface water temporarily during construction.	
Installation Schedule:	*Temporary* – installed prior to earth disturbance around drainage swales. Removed after final stabilization of the upstream area is complete. *Permanent* – if identified on the plans, some temporary check dams may remain as permanent devices. Contractor to coordinate with Engineer/Owner prior to removal.
Maintenance and Inspection:	Weekly and following storm events. Maintenance to be started within 1 day.
Responsibility:	Contractor – during construction Owner – for long term maintenance if permanent
Sediment Filter Bags / Portable Sediment Tanks	
Sediment Filter Bags or Portable Sediment Tanks will be used to filter sediment laden water from dewatering of excavation areas. Water shall be pumped to an approved device and clean water discharged in a safe, controlled manner. Filter bags shall be placed in a vegetated upstream area. Sediment shall be disposed of in accordance with local, state, and federal regulations.	
Installation Schedule:	*Temporary* – As needed
Maintenance and Inspection:	As needed.
Responsibility:	Contractor
Temporary Seeding and Mulching	
While the active area of disturbance exceeds 5 acres, any disturbed areas that are left idle for more than seven (7) days shall be temporarily seeded and mulched. While the active area of disturbance is less than 5 acres, any disturbed areas that are left idle for more than fourteen (14) days shall be temporarily seeded and mulched in accordance with the Standard Specifications. Other areas that might need to be stabilized temporarily will be at the discretion of the Engineer.	
Installation Schedule:	*Temporary* – As needed
Maintenance and Inspection:	As needed.
Responsibility:	Contractor

Erosion and Sediment Control Practices	
Rolled Erosion Control Product (AKA Erosion Control Matting, Erosion Control Blankets)	
Rolled erosion control product shall be required on all slopes 3H:1V or steeper, as depicted on the plans. The matting will help provide stabilization to the final slope.	
Installation Schedule:	*Permanent* – The matting is to be installed during the final slope stabilization along with seeding, topsoil, and mulching, as required by the plans. The matting will eventually biodegrade into the hillslope.
Maintenance and Inspection:	Weekly and following storm events during construction. Maintenance to be started within 1 day.
Responsibility:	Contractor
Vegetative Establishment	
All disturbed areas not previously permanently stabilized with pavement or rock protection shall be stabilized with permanent seeding and mulch in accordance with the contract documents.	
Installation Schedule:	*Permanent* – Once final grades are achieved on the disturbed surfaces and no further disturbance is required.
Maintenance and Inspection:	During construction, weekly and following rain events. Depending on weather conditions, additional watering may be required to help establish healthy growth. Mulching and/or seeding may need to be replenished based on rainfall, drainage, and growth. Final acceptance following 80% ground cover with one mowing cycle, or 5-inches of grass growth in a healthy green color.
Responsibility:	Contractor
Final Inspection	
Prior to final acceptance, the project will undergo a final walk through and inspection by the Owner and/or the Engineer. If any additional evidence of erosion or slope failure is present at that time, additional erosion and sediment controls will be required.	
Installation Schedule:	Prior to project completion.
Maintenance and Inspection:	As required.
Responsibility:	Contractor

4.1 Off-Site Material

Locations of off-site material, waste, borrow or equipment storage have not been determined during the design phase of the project. Erosion and sediment controls will be utilized as necessary for any incidental disturbances that may result from construction activities. The Contractor is responsible for obtaining any permits necessary for off-site activities.

4.2 Applicable Standard Sheets and Special Details

Dimensions and installation details, material specifications, including a maintenance schedule for erosion control measures are described in the "New York State Standards and Specifications for Erosion and Sediment Control". Additional details and specifications are included on the project plans and specifications.

5 Pollution Control Measures

It is the Contractor's responsibility to minimize the effects of construction pollution from impacting the adjacent waterbodies.

5.1 Material Handling and Waste Management

Material Handling and Waste Management BMPs	
Waste Materials	
All trash and debris shall be picked up from the construction worksite and deposited within a trash receptacle or dumpster with a secure, watertight, and operable lid. All trash receptacles shall be stored in upland areas, away from receiving waterbodies. Disposal of waste materials shall be in accordance with all federal, state, and local regulations.	
Installation Schedule:	Once staging area has been established
Maintenance and Inspection:	Weekly and following storm events. If construction debris and trash materials are exceeding the capacity of the receptacles, they shall be maintained more frequently, as needed.
Responsibility:	Contractor
Hazardous Waste Materials	
All hazardous waste materials such as oil filters, petroleum products, paint, and equipment maintenance fluids will be stored in structurally sound and sealed shipping containers in a designated hazardous-materials storage area and segregated from other non-hazardous waste materials. Secondary containment will be provided for all materials in the hazardous materials storage area and will consist of commercially available spill pallets. Additionally, all hazardous materials will be disposed of in accordance with federal, state, and local regulations. Hazardous materials shall not be disposed of in waste receptacles. All personnel shall be instructed regarding proper procedures for hazardous waste disposal. Notices that state these procedures shall be contained with the posted project materials.	
Installation Schedule:	As needed, prior to use of hazardous waste materials on site.
Maintenance and Inspection:	Weekly and following storm events. Storage area shall be kept clean with all necessary documentation including MSDS, material inventory, and emergency contact information.
Responsibility:	Contractor
Sanitary Waste	
Should the Contractor elect to provide a temporary sanitary facility (portable toilet) at the project site, the facility shall be located in the staging area away from all drainage paths and traffic flow areas. The facility shall have collection pans underneath as secondary containment.	
Installation Schedule:	As needed.

Material Handling and Waste Management BMPs	
Maintenance and Inspection:	The toilet will be inspected weekly for evidence of leaking. The sanitary waste shall be collected at a frequency determined by the supplier based on the anticipated usage on site.
Responsibility:	Contractor
Recycling	
Wood pallets, cardboard boxes, and other recyclable materials will be disposed of in designated receptacles for recycling. These receptacles will be clearly marked with a secure, watertight, operable lid. They shall be placed in the staging area away from concentrated flow paths and traffic patterns. Disposal of material shall be in accordance with all federal, state, and local regulations.	
Installation Schedule:	As needed.
Maintenance and Inspection:	Weekly and following storm events. If recyclable materials are exceeding the capacity of the receptacles, they shall be maintained more frequently, as needed.
Responsibility:	Contractor

5.2 Proper Use Areas

Proper Use Areas BMPs	
Staging and Laydown Area	
Staging and laydown areas shall be located in the areas designated on the plans or as approved by the Owner/Operator and the Engineer. The staging and laydown areas shall not impede the daily operations of the facility without approval of the Owner/Operator. Close coordination with the Owner/Operator will be required, as areas available for staging may vary throughout the course of the project. Appropriate containment measures including silt fence or sediment filter logs shall be placed around all stockpiles of materials; barriers or gravel bag berms shall be placed around all material storage areas. All containers left on site shall be watertight and secure. Items shall be placed out of the way of drainage paths and shall not impede traffic flow.	
Installation Schedule:	The staging area shall be established at the start of construction. The area may expand or reduce in size as needed throughout construction. Removal prior to final site grading. Staging areas may need to be relocated or diminished in size at various points during construction.
Maintenance and Inspection:	Weekly and following storm events. Storage areas shall be kept clean and well organized. Perimeter controls, containers, covers, etc. shall be kept in good working condition.
Responsibility:	Contractor
Concrete Washout Area	
At least one concrete washout area is to be provided. Additional concrete washout areas may be required depending on the phase and location of on-going work. The concrete washout areas must be placed in upland areas at least 100-ft away from adjacent waterbodies. Concrete washout areas should be located in an area easily accessible to concrete trucks and workers; a sample location is shown on the Erosion and Sediment Control plans.	
Installation Schedule:	Prior to the start of concrete construction activities. Removal after concrete work has been completed.
Maintenance and Inspection:	Daily during use for containment issues and/or leakage. Washout must be cleaned or new facilities constructed and ready to use once existing washout is 75% full. Concrete materials to be disposed of in accordance with local, state, and federal regulations. No concrete materials shall be discharged onto the ground, storm drain systems, sanitary systems, or waterways.
Responsibility:	Contractor

Proper Use Areas BMPs	
Equipment Fueling and Maintenance	
All major equipment/vehicle fueling and maintenance shall be conducted off-site. When vehicle fueling must occur on-site, the fueling activity will occur ideally within the staging area within a contained area, or at an area at least 100-ft from any waterbody or drainageway. Only minor equipment maintenance may occur on-site. All equipment fluids generated from maintenance activities will be disposed of into designated hazardous waste receptacles on spill pallets. Absorbent, spill-cleanup material and spill kits will be available in the materials handling area. Drip pans will be placed under all equipment receiving maintenance and vehicles and equipment parked overnight.	
Installation Schedule:	At the onset of construction
Maintenance and Inspection:	Inspect equipment and vehicles daily prior to use. All equipment and vehicles shall be kept in good working condition. Inspect fueling areas prior to and following use to ensure in working order and no spills, leaks, or disposal materials remain.
Responsibility:	Contractor
Equipment/Vehicle Washing	
All equipment and vehicle washing will be performed off-site. Equipment in contact with local vegetation shall be washed prior to entering the construction site and following movement to another site to help control the spread of invasive species.	
Installation Schedule:	At the onset of construction
Maintenance and Inspection:	Prior to entering the job site and prior to moving to a new site.
Responsibility:	Contractor

5.3 Spill Prevention

Spill Prevention	
Spill kits shall be available in the materials storage area and concrete washout area, as necessary. All spills shall be cleaned up immediately upon discovery. Spent absorbent materials and rags shall be hauled off-site immediately and disposed of in accordance with federal, state, and local regulations. Consult the NYSDEC's Technical Field Guidance – Spill Reporting and Initial Notification Requirements for reporting criteria (see **Attachment F**).	
Installation Schedule:	At the onset of construction
Maintenance and Inspection:	As needed
Responsibility:	Contractor

6 Existing Watershed Information

6.1 Receiving Waterbody

Receiving Waterbody	NYSDEC Regulated?	GP-0-20-001 303(d) List?	Enhanced Phosphorous Watershed?
Lake Erie	Yes – Class B	No	No

6.2 Existing Watershed Information

For this project site, all site drainage is ultimately directed to Lake Erie at the western edge of the project site. Within the project area, there are three main subsheds:

1. Closed Drainage Collection Area – A large portion of the site runoff is collected into the on-site closed drainage system. This includes several directly connected roof drains from the existing buildings on site. Closed drainage is located in the parking area and paved surfaces at the northern end of the site. Piping extends to the southern end of the site; however, fewer catch basins are located at the southern end of the parcel. All of the closed drainage discharges to the same outlet to Lake Erie at the northwest corner of the project site.
2. Off-Site/On-Site Drainage Ditch – There is an existing drainage ditch that runs along the eastern and northern boundary of the parcel. The drainage ditch generally collects runoff for the off-site area between Lake Shore Road and the AWTF. Lake Shore Road has its own closed drainage system that discharges elsewhere. The drainage ditch, which is primarily located off-site, ultimately loses its shape and connectivity about 440-ft west of the treatment plant entrance road. At this point, the flow generally disperses, ultimately flooding the low-lying areas of the AWTF parcel, west of the existing employee parking area. A yard inlet has been installed in this area to drain the periodic flooding. Therefore, the drainage ditch ultimately discharges to Lake Erie via the on-site closed drainage system outfall.
3. Off-Site Sheet Flow/Uncontrolled Drainage – The remaining portions of the site generally sheet flow to Lake Erie or infiltrate into the ground.

See **Attachment B** for the Watershed Map.

7 Post-Construction Stormwater Control Practices

In accordance with the General Permit GP-0-20-001, Appendix B, Table 2, this project involves municipal facilities and therefore requires post-construction stormwater control practices. While the project is being constructed in two phases, the Water Quality Volume (WQv) is being calculated by the project as a whole. The project includes both redevelopment and new development activities. The Target WQv (WQv_{target}) is calculated using the procedures outlined in Chapter 9 for the New York State Stormwater Design Manual (NYSSDM). Since the project discharges directly to Lake Erie, no Quantity Control is required. The table below describes the WQv requirements for the project. Supporting calculations are included in **Attachment G,** maps showing the existing and proposed impervious surface and stormwater practice locations are located in **Attachment B.**

Required Water Quality Volumes		
Total Project Site	43.2	ac
Disturbed Area	15.6	ac
Existing Impervious Area	3.77	ac
Proposed Impervious Area	4.8	ac
Removed Impervious Area	--	ac
Redeveloped Impervious Area	3.77	ac
New Development Impervious Area	1.028	ac
Initial Water Quality Volume ($WQv_{initial}$) Required	0.425	ac-ft
Minimum Runoff Reduction Volume (RRv) Required	0.016	ac-ft
Target WQv Required (WQv_{target})	0.174	ac-ft

7.1 Green Infrastructure

7.1.1 Reduction of Impervious Cover

The following practices have been utilized to reduce the area of impervious cover.

Reduction of Impervious Cover	
Practice	**Description**
Travel lane width reduction	The ring road width has been limited to 20-ft, providing two 10-ft travel lanes with no shoulder.
Sidewalk width reduction	The sidewalks are the minimum 5-ft width allowed.
Parking lot reduction	The new parking areas were sized to maintain the existing number of parking spaces for employees and visitors, with the addition of two ADA compliant spots (for an ultimate total of 4) to meet building code.

7.1.2 Runoff Reduction Techniques

Through the application of a combination of green infrastructure techniques and runoff reduction volume capable standard stormwater management practices, 100% of the Initial Water Quality volume has been reduced through the use of the following Runoff Reduction volume (RRv) techniques:100% of the Initial WQv is not achieved thru Runoff Reduction (fill in Runoff Reduction Techniques table below):

Standard Management Practices with RRv Capacity		Drainage Area	RRv Reduction[2] (ac-ft)	WQv Reduction (ac-ft)
Phase 1	Bioretention Area 1	0.46 ac	0.010	0.016
	Bioretention Area 2	0.67 ac	0.015	0.022
	Bioretention Area 3	0.37 ac	0.007	0.010
	Infiltration Trench 1	0.69 ac	0.006	0.009
	Infiltration Trench 2	0.64 ac	0.006	0.008
Phase 2	Bioretention Area 4	1.13 ac	0.014	0.020
	Bioretention Area 5	1.91 ac	0.017	0.026
	Total	5.87 ac	0.074	0.111
	Total RRv and WQv Provided (ac-ft)		0.185	
	Total WQv_{target} Required (ac-ft)		0.174	

7.2 Maintenance Schedule of Post-Construction Stormwater Control Practices

Maintained by	Erie County	
Name, Address, Phone of Responsible Party	Erie County Division of Sewerage Management Southtowns AWTF Maintenance 3690 Lake Shore Road, Hamburg, NY 14219	
Facilities to be Maintained	Bioretention Areas	Infiltration Trenches
Description of Maintenance Activity for each Facility and Frequency	<u>Seasonal</u> • Weed, maintain vegetation, replace dead/dying vegetation • Remove accumulated trash/debris <u>Annual</u> • Restore mulch layer • Replenish stone diaphragm / check dams, as necessary	<u>Seasonal</u> • Remove excess vegetation and/or sediment build up over trench surface <u>Annual</u> • Check clean outs for clogs, verify flow through underdrain • Replace stone as needed
Description of Applicable Easements	None	
Description of funding source	Annual Maintenance Budget	
Access and safety issues	None	

[2] Since hydrologic soil group determinations were not available from the NRCS Web Soil Survey, all soils were assumed to be Class D soils, which limits the RRv capacity of each device. This is assumed to be conservative.

Maintained by	Erie County
Testing and disposal of sediments	Not Required
Local and non-local permits	None
Legal agreements	None

8 Inspections and Maintenance

8.1 General Maintenance Inspections

The Contractor 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 they are being maintained in effective operating condition at all times. If deficiencies are identified, the Contractor shall begin implementing corrective actions within *one business day* and shall complete the corrective actions within a reasonable time frame.

8.2 Qualified Inspector Inspections

The Contractor shall have a *Qualified Inspector* inspect the site at least once every seven (7) calendar days while soil disturbing activities are on-going.

The *Qualified Inspector* **Pre-Construction Site Assessment Checklist** and **Construction Duration Inspections Checklist**, see **Attachment A,** must be completed by the *Qualified Inspector* at the start of and throughout construction. The completed forms shall be included as part of this SWPPP. The *Qualified Inspector* is not required to use these exact forms, so long as the required content is included.

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 they are constructed in conformance with this 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 project site, and
- All points of discharge from the project site.

The *Qualified Inspector* shall prepare an inspection report subsequent to each and every inspection. Paper copies of the inspection report and photos shall be included in the SWPPP and maintained on-site. The paper copies shall be on-site within seven (7) calendar days of the date of the inspection. At a minimum the inspection report shall cover:

- Date and time of inspection
- Name and title of person(s) performing inspection
- A description of weather and soil conditions at the time of the inspection (i.e. dry, saturated)

- A description of the condition of the runoff at all points of discharge from the construction site, including pipes, culverts, ditches, and overland flow.
- A description of the condition of all natural surface waterbodies located within or immediately adjacent to the project site which receive runoff from disturbed areas. This shall include any evidence of discharges of sediment laden runoff entering the waterbodies.
- Identification of all erosion and sediment control practices and pollution control measures that need maintenance or repair.
- Identification of all erosion and sediment control practices and pollution control measures that are, or were, not installed properly or are not functioning as designed and need to be reinstalled, replaced, or modified.
- A 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 area that have been stabilized (temporary or permanent) since the last inspection.
- Current phase of construction of all post-construction stormwater management practices and identification of all construction not in conformance with the SWPPP and technical standards.
- Corrective actions that must be taken to repair, replace, or maintain erosion and sediment control or pollution control devices, or deficiencies within the post-construction stormwater management practices.
- Identification of and/or status of all corrective actions required by the previous inspection(s).
- Digital photos, with date stamp, that clearly show the condition of all areas identified as needing corrective actions and corrective actions that have taken place.
- Signature of the Qualified Inspector.

The *Qualified Inspector* shall notify the Owner/Operator and the Contractor of any corrective actions needed within one (1) business day of the inspection.

8.3 Disturbance of Over 5 Acres Inspections

Prior to the disturbance of over five (5) acres of soil at any one time, the Contractor must receive written authorization from the NYSDEC or the MS4. Prior to exceeding the disturbance limit, the Owner/Operator or designee shall provide a written request to the NYSDEC or regulating MS4 for authorization. The written request and authorization shall be included in this SWPPP.

During the period where the project exceeds 5 acres of disturbance at any one time, the *Qualified Inspector* shall be required to conduct at least two (2) site inspections every seven (7) calendar days. The inspections shall be separated by a minimum of two (2) full calendar days.

All the same inspection and reporting requirements as described in Section 8.2 shall be followed.

8.4 Temporary Shut Down Inspections

For construction sites where soil disturbance activities have been temporarily suspended (i.e., winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the *Trained Contractor* can stop conducting the General Maintenance Inspections. The General Maintenance Inspections shall begin once soil disturbance activities resume.

Prior to commencing a Temporary Shut Down, written notification of the shutdown must be included in the SWPPP and submitted to the regulatory MS4, if applicable.

During the period where the project is in temporary shut down, the *Qualified Inspector* shall conduct at least one (1) inspection every thirty (30) days. The inspections shall meet all the same requirements as noted in Section 8.2.

8.5 Partial Project Completion Inspections

For construction sites where soil disturbance activities have been shut down with partial project completion, the *Trained Contractor* and *Qualified Inspector* can stop conducting Inspections if **all** disturbed areas, 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 accordance with this SWPPP.

8.6 Corrective Actions

The Contractor shall begin implementing any corrective actions as determined during the inspection within one (1) business day and complete the corrective action within a reasonable timeframe.

9 Record Retention

9.1 Records To Be Retained On-Site

The following list of records shall be maintained in a secure location on-site, such as a job-trailer, on-site construction office, or mailbox. The secure location must be accessible during normal business hours to an individual performing a compliance inspection. Check boxes have been provided for materials not included in the original development of this document.

Records To Be Retained On-Site		
	Document	**To Be Provided By:**
☐	Construction Schedule with Anticipated Dates of Earth Disturbing Activities	Contractor
☒	Copy of Notice of Intent (NOI)	SWPPP Preparer
☒	SWPPP Preparer Certification Form (Signed)	SWPPP Preparer
☒	Owner/Operator Certification From (Signed)	SWPPP Preparer
☒	NOI Authorization Letter	SWPPP Preparer
☒	SHPO Authorization Letter	SWPPP Preparer
☐	Contractor / Sub-Contractor SPDES Certification Form(s) (Signed)	Contractor
☐	Certification of Trained Contractor(s)	Contractor
☐	Notice of Intent to Disturb Greater Than 5 Acres of Soil	Contractor
☒	Name and Qualifications of Qualified Inspector (see Section 1.2.1)	Qualified Inspector
☐	Qualified Inspector Inspection Reports	Qualified Inspector
☒	Changes to the SWPPP Form(s)	Contractor / Qualified Inspector
☒	SPDES General Permit GP-0-20-001	SWPPP Preparer

9.2 Records To Be Retained Following Construction

The Owner/Operator shall retain a copy of the:

- NOI
- NOI Acknowledgement Letter
- SWPPP
- MS4 SWPPP Acceptance Form (if required)
- All Inspection Reports

For a period of at least five (5) years from the date the NYSDEC receives a complete Notice of Termination (NOT).

Attachment A: Forms



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Water, Bureau of Water Permits
625 Broadway, Albany, New York 12233-3505
P: (518) 402-8111 F: (518) 402-9029
www.dec.ny.gov

11/3/2023

Erie County Division of Sewerage Management
Mary Plesh
95 Franklin Street
Buffalo, NY 14202

RE: ACKNOWLEDGMENT of NOTICE OF INTENT for Coverage Under SPDES General Permit for Storm Water Discharges from CONSTRUCTION ACTIVITY – General Permit No. GP-0-20-001

Dear Prospective Permittee:

This is to acknowledge that the New York State Department of Environmental Conservation (Department) has received a complete Notice of Intent (NOI) for coverage under General Permit No. GP-0-20-001 for the construction activities located at:

Southtowns Advanced Wastewater Treatment Facility Phase 1 and Phase 2 Expansion Project
3690 Lake Shore Road
Hamburg, NY 14219 County: **ERIE**

Pursuant to Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, and ECL Article 70, coverage under GP-0-20-001 for the above construction site is effective five (5) business days from **9/20/2023**, which is the date the Department received your complete eNOI.

The permit identification number for this site is: **NYR11L835**. Be sure to include this permit identification number on any forms or correspondence you send the Department. When coverage under GP-0-20-001 is no longer needed, you must submit a Notice of Termination to the Department.

Additionally, authorization to discharge under GP-0-20-001 is conditioned upon compliance with Part II.C. of GP-0-20-001, specifically the following:

1. A final Storm Water Pollution Prevention Plan has been prepared;

2. When applicable, project review pursuant to the State Environmental Quality Review Act (SEQRA) has been satisfied;

3. 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).

If other UPA permits, or the equivalent, are required, you must submit a preliminary SWPPP to the appropriate Permit Administrator at the Regional Office listed in Appendix F to GP-0-20-001. The preliminary SWPPP must be submitted at the time that the applications for all other UPA permits, or the equivalent, are submitted to the Department.

Note: Construction cannot commence until all of the above have been satisfied.

Please be advised that before disturbing greater than 5 acres of soil at any one time, you have obtained approval from our Regional Office. You should contact the Regional Office listed below.

Jeffrey Konsella
NYS Department of Environmental Conservation - Region: **9**
270 Michigan Avenue
Buffalo, NY 14203-2999

Please also be advised that there is an annual regulatory fee of $110, which is billed by the Department in the late fall. The regulatory fee covers a period of one calendar year. In addition, since September 1, 2004, construction stormwater permittees have been assessed an initial authorization fee which is now $110 per acre of land disturbed and $675 per acre of future impervious area. The initial authorization fee covers the duration of the authorized disturbance.

Should you have any questions regarding any aspect of the requirements specified in GP-0-20-001, please contact me at (518) 402-8114.

Sincerely,



David Gasper
Environmental Engineer

cc: RWE - **9**
SWPPP Preparer
JM Davidson Engineering, DPC
Greer, Krista
935 Sheridan Drive, Suite 120
Tonawanda, NY 14150

NOI for coverage under Stormwater General Permit for Construction Activity

version 1.37

(Submission #: HPR-N4JA-CR6Q2, version 2)

Details

Submitted	9/20/2023 (1085 days ago) by Krista Greer
Alternate Identifier	Southtowns Advanced Wastewater Treatment Facility Phase 1 and Phase 2 Expansion Project
Submission ID	HPR-N4JA-CR6Q2
Status	Deemed Complete

Form Input

Owner/Operator Information

Owner/Operator Name (Company/Private Owner/Municipality/Agency/Institution, etc.)
Erie County Division of Sewerage Management

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

Owner/Operator Contact Person First Name
Mary

Owner/Operator Mailing Address
95 Franklin Street

City
Buffalo

State
NY

Zip
14202

Phone

716-858-7407

Email
mary.plesh@erie.gov

Federal Tax ID
16-6002558

> If the owner/operator is an organization, provide the Federal Tax ID number, or Employer Identification Number (EIN), in the format xx-xxxxxxx. If the owner/operator is an individual and not an organization, enter "Not Applicable" or "N/A" and do not provide the individual's social security number.

Project Location

Project/Site Name
Southtowns Advanced Wastewater Treatment Facility Phase 1 and Phase 2 Expansion Project

Street Address (Not P.O. Box)
3690 Lake Shore Road

Side of Street
West

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

State
NY

Zip
14219

DEC Region
9

> The DEC Region must be provided. Please use the NYSDEC Stormwater Interactive Map (https://gisservices.dec.ny.gov/gis/stormwater/) to confirm which DEC Region this site is located in. To view the DEC Regions, click on "Other Useful Reference Layers" on the left side of the map, then click on "DEC Administrative Boundary." Zoom out as needed to see the Region boundaries.
>
> For projects that span multiple Regions, please select a primary Region and then provide the additional Regions as a note in Question 39.

County
ERIE

Name of Nearest Cross Street
Gateway Boulevard

Distance to Nearest Cross Street (Feet)
1050

Project In Relation to Cross Street
South

Tax Map Numbers Section-Block-Parcel
159.00-1-24

Tax Map Numbers
NONE PROVIDED

> If the project does not have tax map numbers (e.g. linear projects), enter “Not Applicable” or "N/A".

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
42.78639996135397,-78.84924262009888

Project Details

2. What is the nature of this project?
Redevelopment with increase in impervious area

> For the purposes of this eNOI, “New Construction” refers to any project that does not involve the disturbance of existing impervious area (i.e. 0 acres). If existing impervious area will be disturbed on the project site, it is considered redevelopment with either increase in impervious area or no increase in impervious area.

3. Select the predominant land use for both pre and post development conditions.

Pre-Development Existing Landuse
Other: Wastewater Treatment Facility

Post-Development Future Land Use
Other: Wastewater Treatment Facility

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)
42.3

Total Area to be Disturbed (acres)
15.7

Existing Impervious Area to be Disturbed (acres)
3.8

Future Impervious Area Within Disturbed Area (acres)
4.1

5. Do you plan to disturb more than 5 acres of soil at any one time?
Yes

---

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

A (%)
0

B (%)
0

C (%)
0

D (%)
100

7. Is this a phased project?
Yes

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

Start Date
10/15/2023

End Date

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

> Drainage ditches and storm sewer systems are not considered surface waterbodies. Please identify the surface waterbody that they discharge to. If the nearest surface waterbody is unnamed, provide a description of the waterbody, such as, “Unnamed tributary to Niagara River.”

9a. Type of waterbody identified in question 9?
Lake 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

> Please use the DEC Stormwater Interactive Map (https://gisservices.dec.ny.gov/gis/stormwater/) to confirm if this site is located in one of the watersheds of an AA or AA-S classified water. To view the watershed areas, click on “Permit Related Layers” on the left side of the map, then click on “Class AA AAS Watersheds.”

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 D (provided the map unit name is inclusive of slopes greater than 25%), 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)?
No

16. What is the name of the municipality/entity that owns the separate storm sewer system?
NONE PROVIDED

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?
Yes

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
JM Davidson Engineering, DPC

Contact Name (Last, First)
Greer, Krista

Mailing Address
935 Sheridan Drive, Suite 120

City
Tonawanda

State
NY

Zip
14150

Phone
716.453.1646

Email
kgreer@jmdavidsoneng.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
PreparerCetrification_Signed.pdf - 02/22/2023 07:51 PM
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
Check Dams
Construction Road Stabilization
Dust Control
Portable Sediment Tank
Silt Fence
Stabilized Construction Entrance
Storm Drain Inlet Protection

Biotechnical
None

Vegetative Measures
Mulching
Protecting Vegetation
Seeding
Streambank Protection
Topsoiling

Permanent Structural
Rock Outlet Protection

Other
Compost Filter Sock, Erosion Control Matting, Sediment Filter Bag

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.
Roadway Reduction
Sidewalk 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).

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout). (Acre-feet)
0.115

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)
0.059

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)
0.005

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)
0.087

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).
0.146

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

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)
NONE PROVIDED

Post-Development (CFS)
NONE PROVIDED

Total Extreme Flood Control Criteria (Qf)

Pre-Development (CFS)
NONE PROVIDED

Post-Development (CFS)
NONE PROVIDED

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.

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
Erie County Division of Sewerage Management

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.
This project discharges through an on-site closed drainage system directly to Lake Erie.

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)
0.0

Total Contributing Impervious Acres for Conservation of Natural Area (RR-1)
0.0

Total Contributing Acres for Sheetflow to Riparian Buffers/Filter Strips (RR-2)
0.0

Total Contributing Impervious Acres for Sheetflow to Riparian Buffers/Filter Strips (RR-2)
0.0

Total Contributing Acres for Tree Planting/Tree Pit (RR-3)
0.0

Total Contributing Impervious Acres for Tree Planting/Tree Pit (RR-3)
0.0

Total Contributing Acres for Disconnection of Rooftop Runoff (RR-4)
0.34

RR Techniques (Volume Reduction)

Total Contributing Impervious Acres for Disconnection of Rooftop Runoff (RR-4)
0.34

Total Contributing Impervious Acres for Vegetated Swale (RR-5)
0.0

Total Contributing Impervious Acres for Rain Garden (RR-6)
0.0

Total Contributing Impervious Acres for Stormwater Planter (RR-7)
0.0

Total Contributing Impervious Acres for Rain Barrel/Cistern (RR-8)
0.0

Total Contributing Impervious Acres for Porous Pavement (RR-9)
0.0

Total Contributing Impervious Acres for Green Roof (RR-10)
0.0

Standard SMPs with RRv Capacity

Total Contributing Impervious Acres for Infiltration Trench (I-1)
0.31

Total Contributing Impervious Acres for Infiltration Basin (I-2)
0.0

Total Contributing Impervious Acres for Dry Well (I-3)
0.0

Total Contributing Impervious Acres for Underground Infiltration System (I-4)
0.0

Total Contributing Impervious Acres for Bioretention (F-5)
2.1

Total Contributing Impervious Acres for Dry Swale (O-1)
0.4

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 manufaturer 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.
Coastal Erosion
Stream Bed or Bank Protection/Article 15
Individual SPDES
SPDES Multi-Sector GP (Enter SPDES # below)

If SPDES Multi-Sector GP, then give permit ID
NYR00A951

If Other, then identify
AWTP SPDES No. NY0095401

41. Does this project require a US Army Corps of Engineers Wetland Permit?
Yes

If "Yes," then indicate Size of Impact, in acres, to the nearest tenth
0.1

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?
No

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?
NONE PROVIDED

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
Owner Cert_signed.pdf - 09/20/2023 08:55 AM
Comment
NONE PROVIDED

Attachments

Date	Attachment Name	Context	User
9/20/2023 8:55 AM	Owner Cert_signed.pdf	Attachment	Krista Greer
2/22/2023 7:51 PM	PreparerCetrification_Signed.pdf	Attachment	Krista Greer

Status History

Date	User	Processing Status
9/20/2023 9:13:04 AM	Krista Greer	Draft
9/20/2023 9:16:11 AM	Krista Greer	Submitting
9/20/2023 9:16:18 AM	Krista Greer	Submitted
11/2/2023 1:11:52 PM	Daniel von Schilgen	Deemed Complete

Processing Steps

Step Name	Assigned To/Completed By	Date Completed
Form Submitted	Krista Greer	9/20/2023 9:16:18 AM
Under Review	Daniel von Schilgen	11/2/2023 1:11:42 PM
Under Review	Daniel von Schilgen	11/2/2023 1:11:44 PM

Revisions

Revision	Revision Date	Revision By
Revision 1	2/22/2023 5:31 PM	Krista Greer
Revision 2	9/20/2023 9:13 AM	Krista Greer

Certification Statement

Construction NOI Preparer Certification

By clicking the “Submit Form” button below, I certify that all submitted documents, including the owner/operator certification, are true and exact electronic copies of the original documents that have been completed and executed and that I am authorized by the Owner/Operator to submit these documents to the New York State Department of Environmental Conservation.

February 14, 2025

Erie County Division of Sewerage Management
David Millar
95 Franklin Street
Buffalo, NY 14202

RE: Letter of Continued Coverage (LOCC) for Coverage Under
SPDES General Permit for Stormwater Discharges from Construction Activity (CGP)
General Permit No. GP-0-25-001

Dear Owner or Operator,

The New York State Department of Environmental Conservation (NYSDEC) received a complete Request to Continue Coverage form for continued coverage under GP-0-25-001 for construction activities located at:

Project Name: Southtowns Advanced Wastewater Treatment Facility Phase 1 and Phase 2 Expansion Project
Project Address: 3690 Lake Shore Road
Hamburg, NY 14219 Project County: Erie

Through submission of the Request to Continue Coverage form on February 14, 2025, the owner or operator certified that the eligibility requirements in Part I.A. of GP-0-25-001 have been met, where required.

As a reminder, this LOCC is not the permit document. The permit document, GP-0-25-001, is accessible on NYSDEC's website: dec.ny.gov

The project has obtained continued coverage in accordance with Part I.F.4. of GP-0-25-001 as follows:

- Project Name: Southtowns Advanced Wastewater Treatment Facility Phase 1 and Phase 2 Expansion Project
- eNOI Submission ID: HPR-N4JA-CR6Q2
- SPDES Permit ID: NYR11L835
- Date continued coverage has been obtained: February 14, 2025

If there are any questions regarding the requirements in GP-0-25-001, please contact me.

Sincerely,

John Muthersbaugh

John Muthersbaugh

Assistant Engineer

Construction General Permit (CGP) Request to Continue Coverage (RCC) GP-0-25-001

version 1.3

(Submission #: HQA-D40A-2MZ9F, version 1)

Details

Submitted	2/14/2025 (0 days ago) by Krista Greer
Alternate Identifier	NYR11L835—Southtowns Advanced Wastewater Treatment Facility Phase 1 and Phase 2 Expansion Project—Re
Submission ID	HQA-D40A-2MZ9F
Status	Deemed Complete

Form Input

Permit Information

The owner or operator must meet the requirements in GP-0-25-001 Part I.F.2., to submit this Request to Continue Coverage form. If these requirements are not met, the owner or operator must submit a new eNOI in accordance with GP-0-25-001 Part I.D. to obtain coverage under GP-0-25-001 beyond the interim coverage.

1. SPDES Identification Number
NYR11L835

2. Does the construction activity meet all eligibility requirements listed in Part I.A. of GP-0-25-001?
Yes

> If your coverage under GP-0-20-001 is from an NOI submitted on paper, or the eNOI submission number is not known, you may skip question 3.

3. eNOI Submission Number
HPR-N4JA-CR6Q2

Owner/Operator Information

4. Owner/Operator Name
Erie County Division of Sewerage Management

5. Owner/Operator Contact Person Information

First and Last Name	Phone	E-mail
David Millar	716-858-6499	david.millar@erie.gov

6. Owner/Operator Mailing Address

95 Franklin Street
Buffalo, NY 14202
USA

Site Information

7. Project/Site Name
Southtowns Advanced Wastewater Treatment Facility Phase 1 and Phase 2 Expansion Project

8. Site Address

3690 Lake Shore Road
Hamburg, NY 14219
Erie

DEC Region
9

9. Site Latitude & Longitude
42.78661058507903,-78.84895294152527

Project Details

10. Will the owner or operator continue to implement the SMP component in conformance with the technical standards in place at the time of initial project authorization, and comply with all non-design requirements of GP-0-25-001, in accordance with Part I.F.2.a. and I.F.2.b.?
Yes

10.a. Which version of the NYS Stormwater Management Design Manual was used to develop the SWPPP?
2015

Owner/Operator Certification

Owner/Operator Certification Form Download

Download the Owner/Operator Certification Form by clicking the link below.
Owner/Operator Certification Form

11. Upload Owner/Operator Certification Form

SignedSWPPPContFrom.pdf - 02/14/2025 12:54 PM

Comment

NONE PROVIDED

11.a. Has the Owner/Operator Certification Form from Appendix J been signed by the owner/operator, or a representative of the owner/operator in accordance with Part VII.J of GP-0-25-001 and uploaded to this Request to Continue Coverage?

Yes

Attachments

Date	Attachment Name	Context	User
2/14/2025 12:54 PM	Letter of Continued Coverage.pdf	Generated Document	Krista Greer
2/14/2025 12:54 PM	SignedSWPPPContFrom.pdf	Attachment	Krista Greer

Status History

	User	Processing Status
2/14/2025 12:50:33 PM	Krista Greer	Draft
2/14/2025 12:54:27 PM	Krista Greer	Submitting
2/14/2025 12:54:32 PM	Krista Greer	Submitted
2/14/2025 12:54:34 PM	Krista Greer	Deemed Complete

Audit

Event	Event Description	Event By	Event Date
Letter of Continued Coverage	The Letter of Continued Coverage document has been generated and is available for download.	Krista Greer	2/14/2025 12:54 PM

Processing Steps

Step Name	Assigned To/Completed By	Date Completed
Form Submitted	Krista Greer	2/14/2025 12:54:32 PM
Accepted	Krista Greer	2/14/2025 12:54:32 PM

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges From Construction Activity (GP-0-20-001)

Project Site Information

Project/Site Name

Southtowns Advanced Wastewater Treatment Facility Phase 1 and Phase 2 Expansion Project

Owner/Operator Information

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

Erie County Division of Sewerage Management

Certification Statement – SWPPP Preparer

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

Krista		Greer
First name	MI	Last Name



Signature

02/22/2023

Date

Revised: January 2020

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-20-001)

Project/Site Name: Southtowns AWTF Phase1 and Phase 2 Expansion Project

eNOI Submission Number: HPR-N4JA-CR6Q2

eNOI Submitted by: ☑ Owner/Operator ☐ SWPPP Preparer ☐ Other

Certification Statement - Owner/Operator

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

Owner/Operator First Name M.I. Last Name

Joseph L. Fiegl

Signature

9/19/23

Date

CONTRACTOR / SUB-CONTRACTOR SPDES CERTIFICATION FORM

SDPES Permit ID #:

Project/Site Name: Southtowns Advanced Wastewater Treatment Facility Expansion Project

Project Street/Location: 3690 Lake Shore Road

City/Town/Village: Hamburg **State:** NY **Zip:** 14219

County: Erie **Regulated, Traditional MS4 District?** N **Name:** --

Name of Contractor/SubContractor: Kandey Company Inc.

Address: 19 Ransier Drive

City: West Seneca **State:** NY **Zip:** 14224

Phone: 716-675-7245 **Prime Contractor:** ☒ **SubContractor:** ☐

CONTRACTOR/SUBCONTRACTOR CERTIFICATION:

"I 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."

Signature Date

Name (Print) Title

Trained Contractor Name / Title: Bob Walter, Project Superintendent

Name of Training Course: NYS DEC 4-Hour Erosion and Sediment Control Training

Trainee Number: SWT #29T-011123-32 Date of Training: 1/11/2023

Trained Contractor Name / Title:

Name of Training Course: Date of Training:

Scope of Services:

One form shall be provided for each Contractor/Subcontractor performing earthwork or soil disturbing activities identifying at least one Trained Contractor responsible for implementation of the SWPPP. Certificate of Training shall be attached to this form for each individual. Training must consist of 4 hours of NYSDEC-endorsed Erosion and Sediment Control Training every 3 years. (Training is not required if the individual is a licensed Professional Engineer, registered licensed Landscape Architect, or CPESC)

At least one Trained Contractor shall be on site on a daily basis when soil disturbance activities are being performed.

NOTICE TO DISTURB GREATER THAN 5 ACRES OF SOIL

SPDES Permit ID#					
Project/Site Name:	Southtowns Advanced Wastewater Treatment Facility Expansion Project				
Project Street/Location:	3690 Lake Shore Road				
City/Town/Village:	Hamburg	**State:**	NY	**Zip:**	14219
County: Erie	**Regulated, Traditional MS4 District?**		N	**Name:**	--

In accordance with Part II.C.3D.3 of the SPDES Permit for Stormwater Discharges from Construction Activity General Permit 0-20-001, 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 New York State Department of Environmental Conservation or, in areas under the jurisdiction of the regulated, traditional land use MS4, the MS4 program. This document is intended to serve as notification.

I, as the owner / operator certify that:

1. A Qualified Inspector will conduct at least **two (2) site inspections every seven (7) days** whenever more than 5 ac of soil has been disturbed. Inspections during this period will be separated by a minimum of two (2) full calendar days.

2. In areas where the soil disturbance activity has temporarily or permanently ceased, soil stabilization measures will be initiated by the end of the next business day and completed within **seven (7) business days.**

3. If not already included in the SWPPP, additional documentation regarding a site phasing plan and additional site-specific erosion and sediment control practices will be included in the SWPPP.

Approximate Start Date When Soil Disturbance Will Exceed 5 Acres: _____

Estimated End Date of Soil Disturbance Exceeding 5 Acres: _____

Approximate Maximum Total Soil Disturbance: _____

Signature of Owner / Operator	Date
Name of Owner / Operator (Print)	Title
Phone	Email
Date Submitted to NYSDEC / MS4	

Additional documentation, including site plans, design calculations, etc., as necessary, to be included with this document in the SWPPP.

CHANGES REQUIRED FOR THE SWPPP FORM

SPDES Permit ID #:					
Project/Site Name:	Southtowns Advanced Wastewater Treatment Facility Expansion Project				
Project Street/Location:	3690 Lake Shore Road				
City/Town/Village:	Hamburg	**State:**	NY	**Zip:**	14219
County:	Erie	**Regulated, Traditional MS4 District?**	N	**Name:**	--

The SWPPP must be kept current at all times to accurately represent the erosion and sediment controls being used during construction and all post-construction stormwater management controls. The SWPPP must be updated:

a) Whenever the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the site;
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 pollutants,
c) To address issues or deficiencies identified during an inspection by the Qualified Inspector, the NYSDEC, or MS4;
d) To document the final construction conditions.

Changes Required: _____

_____

_____

_____

Reason for Changes: _____

_____

_____

_____

_____ _____

Signature of Inspector Date

_____

Name of Inspector (Print)

Certification of Completion

_____ _____

Contractor Project Manager Date

Additional documentation, including site plans, design calculations, etc., as necessary, to be included with this document in the SWPPP.

I. **PRE-CONSTRUCTION MEETING DOCUMENTS**

Project Name _____

Permit No. _____ **Date of Authorization** _____

Name of Operator _____

Prime Contractor _____

a. **Preamble to Site Assessment and Inspections**

The Following Information To Be Read By All Person's Involved in The Construction of Stormwater Related Activities:

The Operator agrees to have a qualified inspector[1] conduct an assessment of the site prior to the commencement of construction[2] and certify in this inspection report that the appropriate erosion and sediment controls described in the SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

Prior to the commencement of construction, the Operator shall certify in this site logbook that the SWPPP has been prepared in accordance with the State's standards and meets all Federal, State and local erosion and sediment control requirements. A preconstruction meeting should be held to review all of the SWPPP requirements with construction personnel.

When construction starts, site inspections shall be conducted by the qualified inspector at least every 7 calendar days. The Operator shall maintain a record of all inspection reports in this site logbook. The site logbook shall be maintained on site and be made available to the permitting authorities upon request.

Prior to filing the Notice of Termination or the end of permit term, the Operator shall have a qualified inspector perform a final site inspection. The qualified inspector shall certify that the site has undergone final stabilization[3] using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed. In addition, the Operator must identify and certify that all permanent structures described in the SWPPP have been constructed and provide the owner(s) with an operation and maintenance plan that ensures the structure(s) continuously functions as designed.

1 Refer to "Qualified Inspector" inspection requirements in the current SPDES General Permit for Stormwater Discharges from Construction Activity for complete list of inspection requirements.
2 "Commencement of construction" means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.
3 "Final stabilization" means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (80) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

b. Pre-construction Site Assessment Checklist
(NOTE: Provide comments below as necessary)

1. Notice of Intent, SWPPP, and Contractors Certification:

Yes No NA

[ ] [ ] [ ] Has a Notice of Intent been filed with the NYS Department of Conservation?
[ ] [ ] [ ] Is the SWPPP on-site? Where?_____
[ ] [ ] [ ] Is the Plan current? What is the latest revision date?_____
[ ] [ ] [ ] Is a copy of the NOI (with brief description) onsite? Where?_____
[ ] [ ] [ ] Have all contractors involved with stormwater related activities signed a contractor's certification?

2. Resource Protection

Yes No NA

[ ] [ ] [ ] Are construction limits clearly flagged or fenced?
[ ] [ ] [ ] Important trees and associated rooting zones, on-site septic system absorption fields, existing vegetated areas suitable for filter strips, especially in perimeter areas, have been flagged for protection.
[ ] [ ] [ ] Creek crossings installed prior to land-disturbing activity, including clearing and blasting.

3. Surface Water Protection

Yes No NA

[ ] [ ] [ ] Clean stormwater runoff has been diverted from areas to be disturbed.
[ ] [ ] [ ] Bodies of water located either on site or in the vicinity of the site have been identified and protected.
[ ] [ ] [ ] Appropriate practices to protect on-site or downstream surface water are installed.
[ ] [ ] [ ] Are clearing and grading operations divided into areas <5 acres?

4. Stabilized Construction Access

Yes No NA

[ ] [ ] [ ] A temporary construction entrance to capture mud and debris from construction vehicles before they enter the public highway has been installed.
[ ] [ ] [ ] Other access areas (entrances, construction routes, equipment parking areas) are stabilized immediately as work takes place with gravel or other cover.
[ ] [ ] [ ] Sediment tracked onto public streets is removed or cleaned on a regular basis.

5. Sediment Controls

Yes No NA

[ ] [ ] [ ] Silt fence material and installation comply with the standard drawing and specifications.
[ ] [ ] [ ] Silt fences are installed at appropriate spacing intervals
[ ] [ ] [ ] Sediment/detention basin was installed as first land disturbing activity.
[ ] [ ] [ ] Sediment traps and barriers are installed.

6. Pollution Prevention for Waste and Hazardous Materials

Yes No NA

[ ] [ ] [ ] The Operator or designated representative has been assigned to implement the spill prevention avoidance and response plan.
[ ] [ ] [ ] The plan is contained in the SWPPP on page _____
[ ] [ ] [ ] Appropriate materials to control spills are onsite. Where? _____

II. CONSTRUCTION DURATION INSPECTIONS

a. Directions:

Inspection Forms will be filled out during the entire construction phase of the project.

Required Elements:

1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;

2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;

3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;

4) Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of sediment storage volume (for example, 10 percent, 20 percent, 50 percent);

5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water; and

6) Immediately report to the Operator any deficiencies that are identified with the implementation of the SWPPP.

SITE PLAN/SKETCH

_____ _____

Inspector (print name) **Date of Inspection**

_____ _____

Qualified Inspector (print name) **Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
[ ] [ ] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?
[ ] [ ] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?
[ ] [ ] [ ] All disturbance is within the limits of the approved plans.
[ ] [ ] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA
[ ] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?
[ ] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
[ ] [ ] [ ] Is construction impacting the adjacent property?
[ ] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA
[ ] [ ] [ ] Maximum diameter pipes necessary to span creek without dredging are installed.
[ ] [ ] [ ] Installed non-woven geotextile fabric beneath approaches.
[ ] [ ] [ ] Is fill composed of aggregate (no earth or soil)?
[ ] [ ] [ ] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA
[ ] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.
[ ] [ ] [ ] Installed per standards and specifications?
[ ] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?
[ ] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA
[ ] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
[ ] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.
[ ] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.
[ ] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA

[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [ ] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

[ ] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [ ] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[ ] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA

[ ] [ ] [ ] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [ ] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [ ] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

[ ] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[ ] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

[ ] [ ] [ ] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [ ] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA

[ ] [ ] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[ ] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[ ] [ ] [ ] Fabric buried 6 inches minimum.
[ ] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [ ] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [ ] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [ ] Drainage area is 1acre or less.
[ ] [ ] [ ] Excavated area is 900 cubic feet.
[ ] [ ] [ ] Excavated side slopes should be 2:1.
[ ] [ ] [ ] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [ ] Posts 3-foot maximum spacing between posts.
[ ] [ ] [ ] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [ ] Manufactured insert fabric is free of tears and punctures.
[ ] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[ ] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[ ] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[ ] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [ ] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [ ] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [ ] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [ ] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

eNOT Owner or Operator Certification

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Certification Statement

I certify that I have met the requirements of CGP Part V.A.1., 2., 3., and 4. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the Owner or Operator:

b. Title/Position:

c. Signature:

d. Date:

eNOT Qualified Inspector Certification – SMPs

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Certification Statement

I hereby certify that all the requirements in CGP Part V.A.1.a.iv. or CGP Part V.A.1.b.iv. have been achieved. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the Qualified Inspector:

b. Title/Position:

c. Signature:

d. Date:

eNOT Qualified Inspector Certification – Final Stabilization

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Certification Statement

I hereby certify that all the requirements in CGP Part V.A.1.a.i., ii., and iii. or CGP Part V.A.1.b.i., ii., and iii. have been achieved. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the Qualified Inspector:

b. Title/Position:

c. Signature:

d. Date:

NEW YORK STATE | Department of Environmental Conservation

Endorsed Training

Certificate of Completion

Anna N Hongosh

Is hereby awarded this Certificate signifying completion of the course:

"NYS DEC 4-Hour Erosion and Sediment Control Training"

Attested Day of Training: 10/17/2024

*Assigned Trainee Stormwater Identification Number – **SWT #040T-101724-23***

This Erosion and Sediment Control (E&SC) Training is Endorsed by the NYS Department of Environmental Conservation, Division of Water, for "Trained Contractors" and Certain "Qualified Inspectors" who must receive 4 hours of E&SC training every three years to satisfy requirements under the Construction Activity State Pollution Discharge Elimination System (SPDES) General Permit.

Expiration: 3 years from date of training

Instructed by: Kelly N Emerick (NYSDEC **SWT** #040T)

625 Broadway, 4th Floor, Albany NY 12233-3505 ~ (518) 402-8111 ~ training.Stormwater@dec.ny.gov

https://www.dec.ny.gov/chemical/8694.html#Erosion_Sediment_Training

ADDENDUM 75-2 - 68

Attachment B: Maps

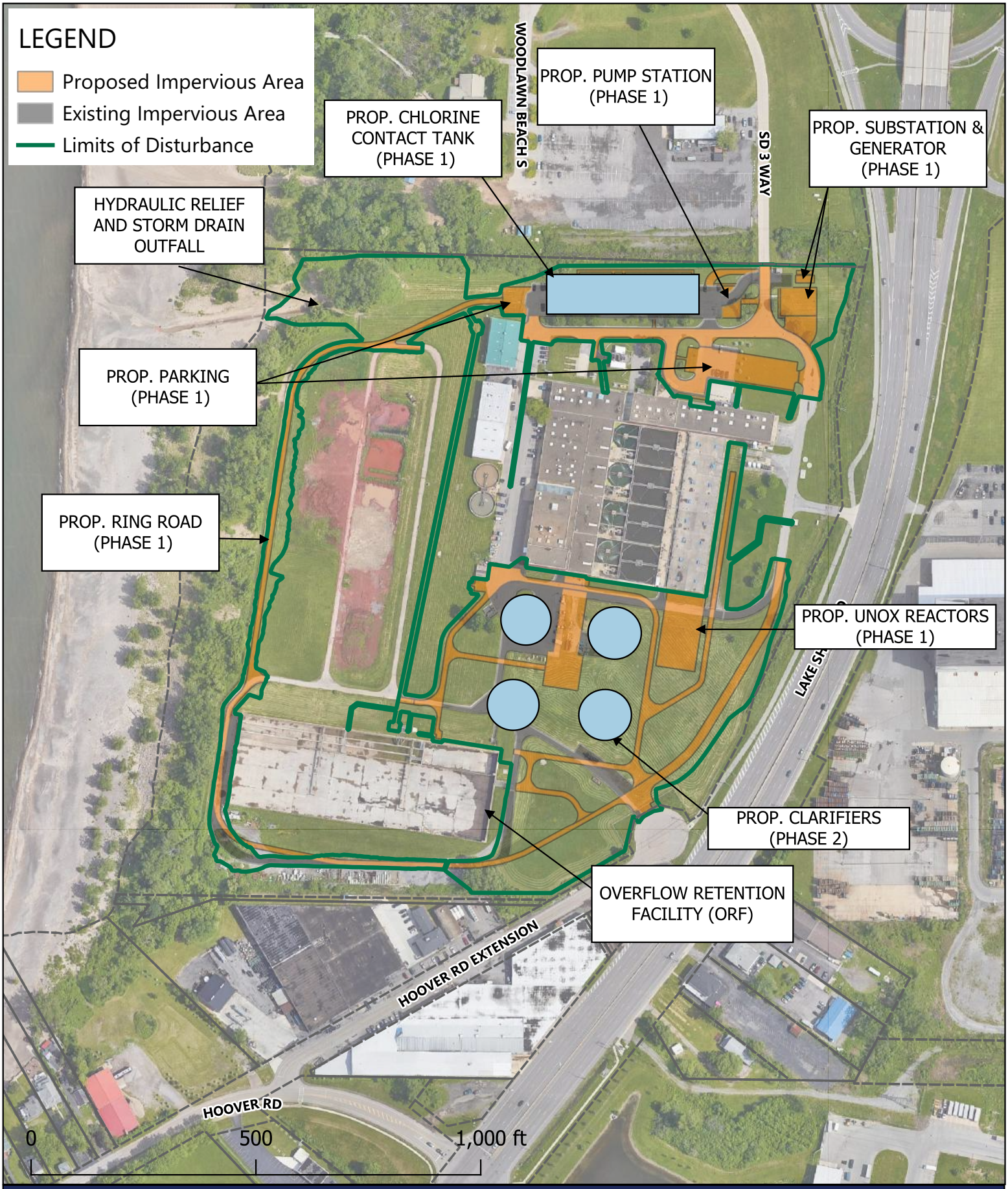




ERIE COUNTY DIVISION OF SEWERAGE MANAGEMENT
SOUTHTOWNS AWTF EXPANSION PROJECT

PROJECT LOCATION MAP

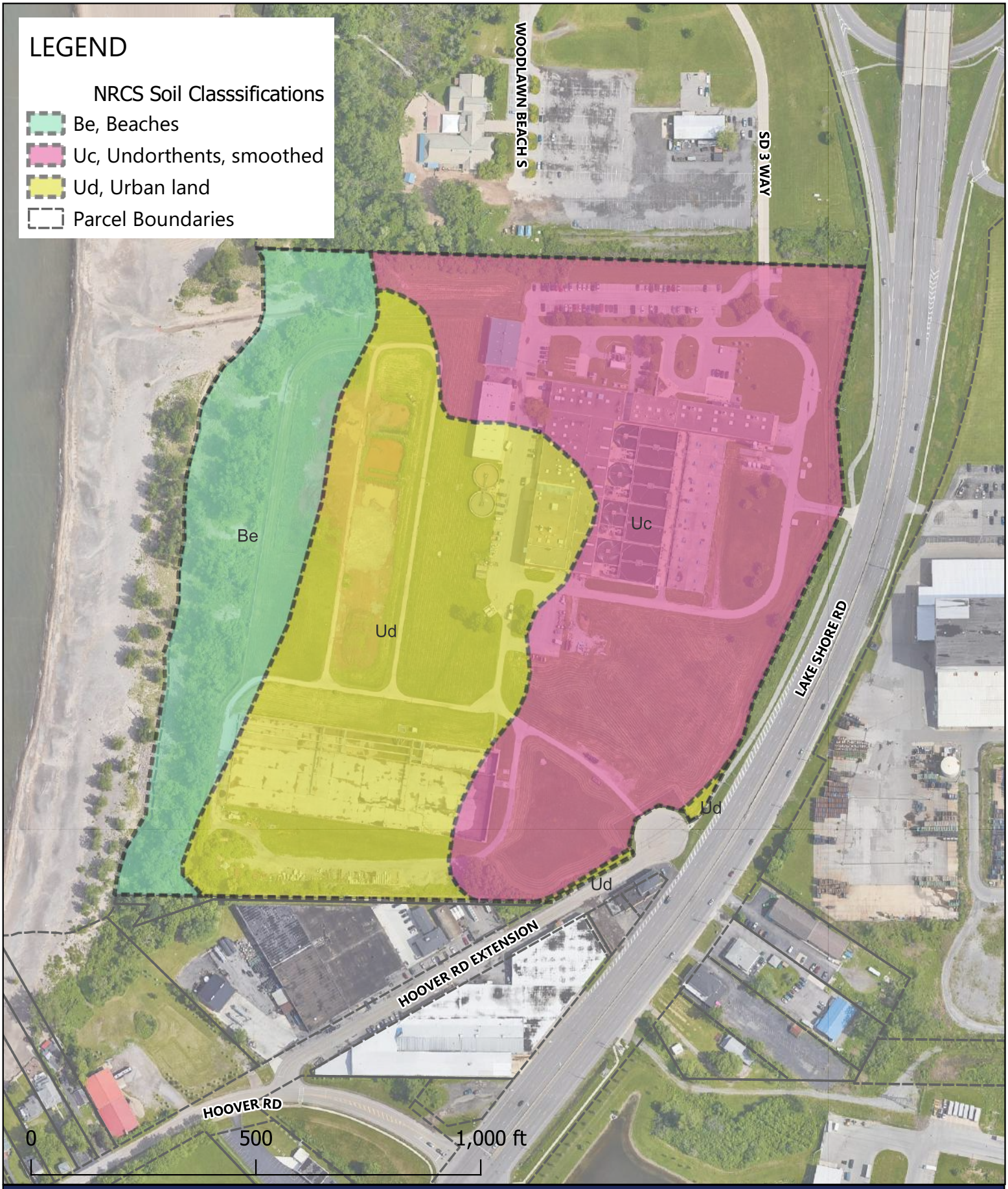
JMDavidson Engineering, D.P.C.



ERIE COUNTY DIVISION OF SEWERAGE MANAGEMENT
SOUTHTOWNS AWTF EXPANSION PROJECT

PROJECT SITE MAP

JMDavidson Engineering, D.P.C.

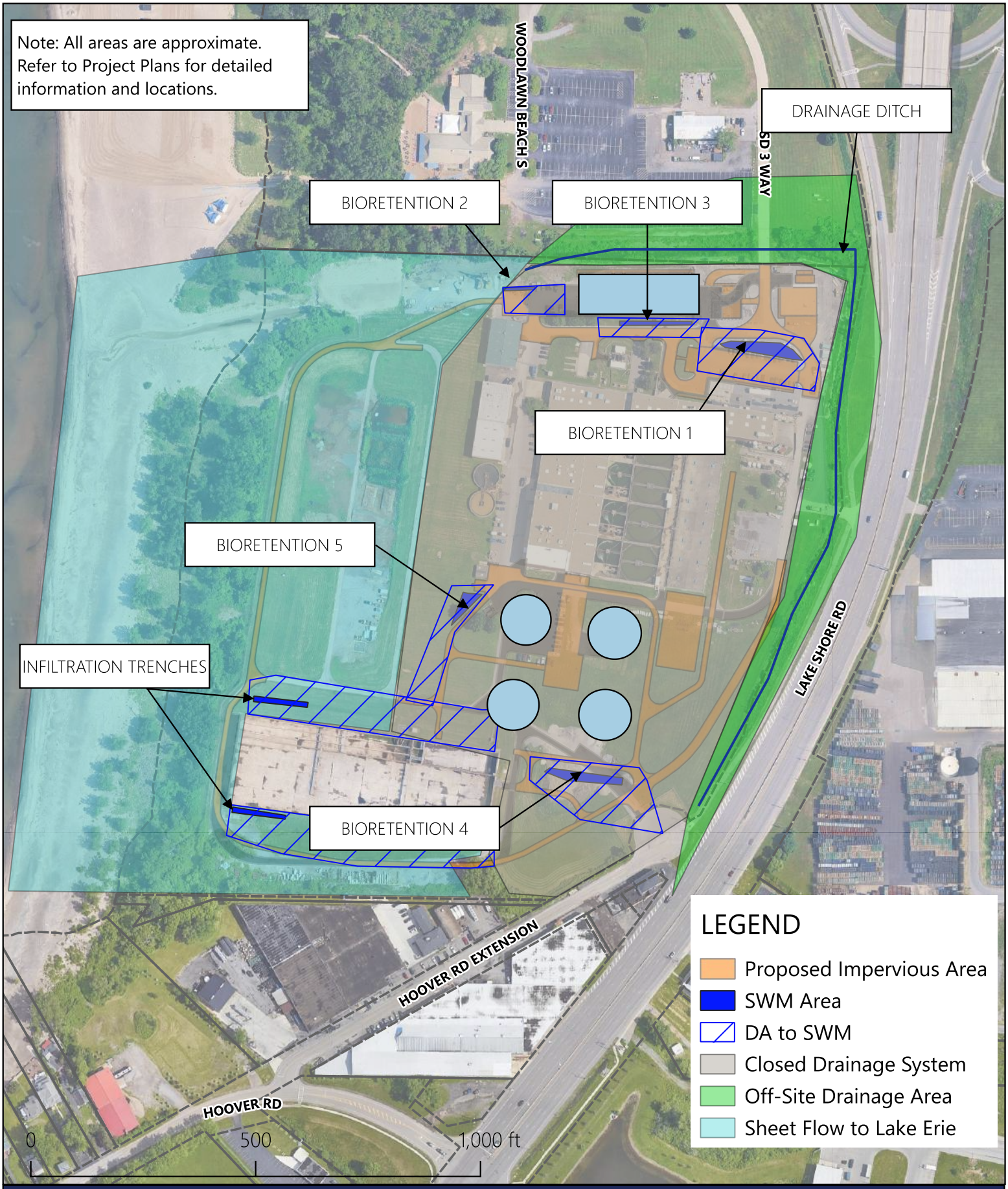


ERIE COUNTY DIVISION OF SEWERAGE MANAGEMENT
SOUTHTOWNS AWTF EXPANSION PROJECT

JMDavidson Engineering, D.P.C.

NRCS SOIL DATA

ADDENDUM 7.5.2 - 72



ERIE COUNTY DIVISION OF SEWERAGE MANAGEMENT
SOUTHTOWNS AWTF EXPANSION PROJECT

PROJECT WATERSHED MAP

JMDavidson Engineering, D.P.C.

Attachment C: Soils Report



United States Department of Agriculture

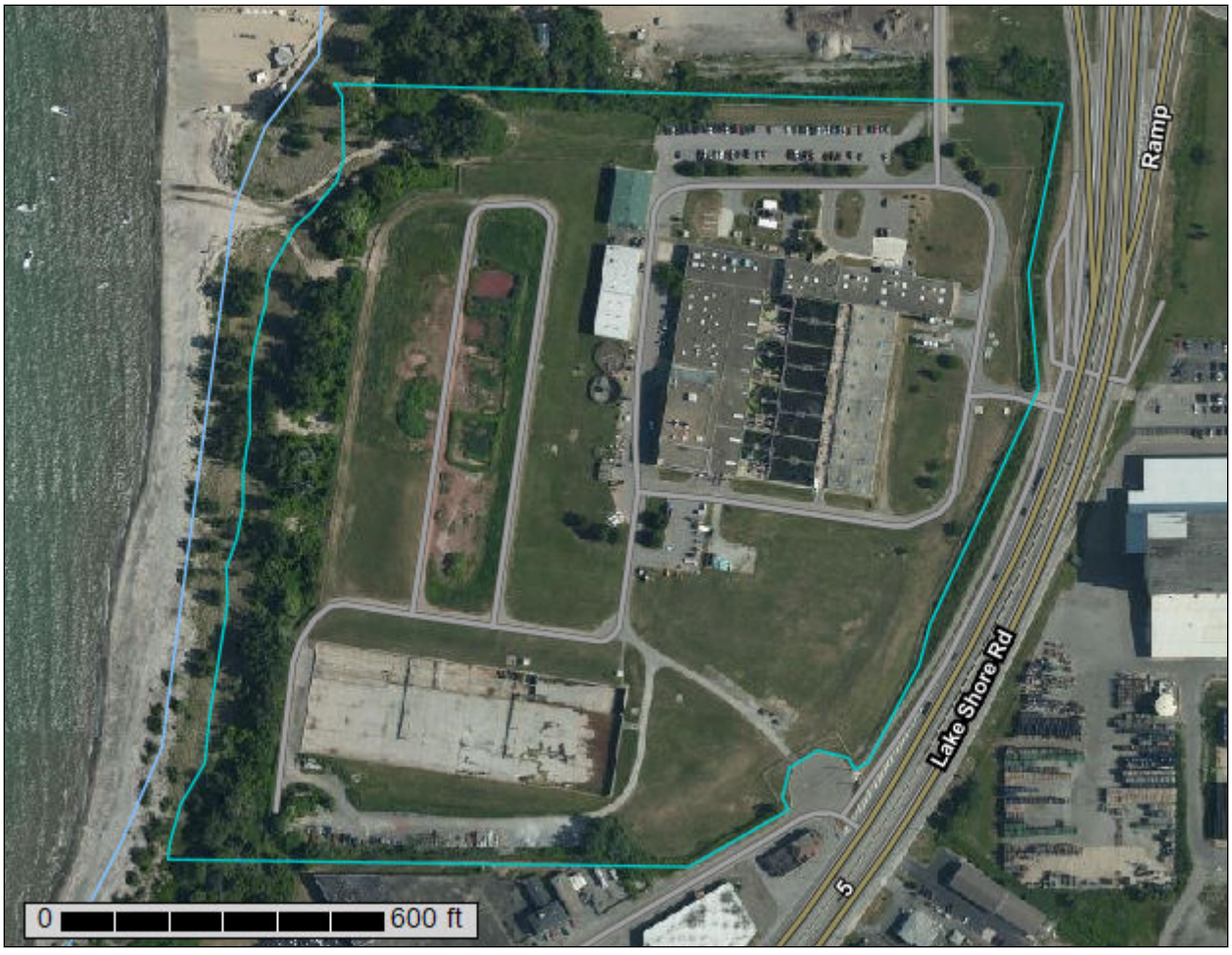
NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Erie County, New York

Southtowns AWTF Expansion Project



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

Preface.....2
How Soil Surveys Are Made.....5
Soil Map.....8
Soil Map.....9
Legend.....10
Map Unit Legend.....11
Map Unit Descriptions.....11
Erie County, New York.....13
Be—Beaches.....13
Uc—Udorthents, smoothed.....13
Ud—Urban land.....14
References.....16

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


78° 51' 20" W
78° 50' 44" W
42° 47' 17" N
42° 47' 0" N
675410
675490
675570
675650
675730
675810
675890
675970
676050
676130
676210
4739510
4739430
4739350
4739270
4739190
4739110
4739030
Be
Uc
Ud
Ud
Ud
Ramp
Walkway
5
Soil Map may not be valid at this scale.
Map Scale: 1:3,740 if printed on A landscape (11" x 8.5") sheet.
N
Meters
0 50 100 200 300
Feet
0 150 300 600 900
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

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

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 22, Sep 10, 2022

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

Date(s) aerial images were photographed: Jul 14, 2019—Jul 27, 2019

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Be	Beaches	7.8	18.0%
Uc	Udorthents, smoothed	20.5	47.1%
Ud	Urban land	15.2	34.9%
Totals for Area of Interest		**43.5**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Erie County, New York

Be—Beaches

Map Unit Setting

National map unit symbol: 9rjz
Elevation: 0 to 100 feet
Mean annual precipitation: 36 to 48 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 115 to 195 days
Farmland classification: Not prime farmland

Map Unit Composition

Beaches: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Beaches

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydric soil rating: Unranked

Minor Components

Elnora

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

Cheektowaga

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Minoa

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

Colonie

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

Uc—Udorthents, smoothed

Map Unit Setting

National map unit symbol: 9rq3
Elevation: 560 to 1,390 feet
Mean annual precipitation: 36 to 48 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 115 to 195 days

Farmland classification: Not prime farmland

Map Unit Composition

Udorthents and similar soils: 75 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents

Properties and qualities

Slope: 0 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Depth to water table: About 36 to 72 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydric soil rating: No

Minor Components

Appleton

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

Langford

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

Hudson

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

Chippewa

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Odessa

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

Ud—Urban land

Map Unit Setting

National map unit symbol: 9rq4
Mean annual precipitation: 36 to 48 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 115 to 195 days

Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Minor Components

Udorthents

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

Getzville

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Odessa

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

Mardin

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

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

Attachment D: Cultural Resource Documentation



NEW YORK STATE OF OPPORTUNITY. | Parks, Recreation, and Historic Preservation

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

February 18, 2022

Joseph Fiegl
deputy commissioner of Erie County division of sewerage management
Erie County DEP- DSM
95 Franklin St
Rm 1034
Buffalo, NY 14202

Re: USACE
Southtowns Advanced Wastewater Treatment Facility (AWTF) Phase 1 and Phase 2 Expansion Project
3690 Lake Shore Rd, Hamburg, Erie County, NY
22PR01011

Dear Joseph Fiegl :

Thank you for requesting the comments of the State Historic Preservation Office (SHPO). We have reviewed the project in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based upon this review, it is the opinion of the New York SHPO that no historic properties, including archaeological and/or historic resources, will be affected by this undertaking.

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

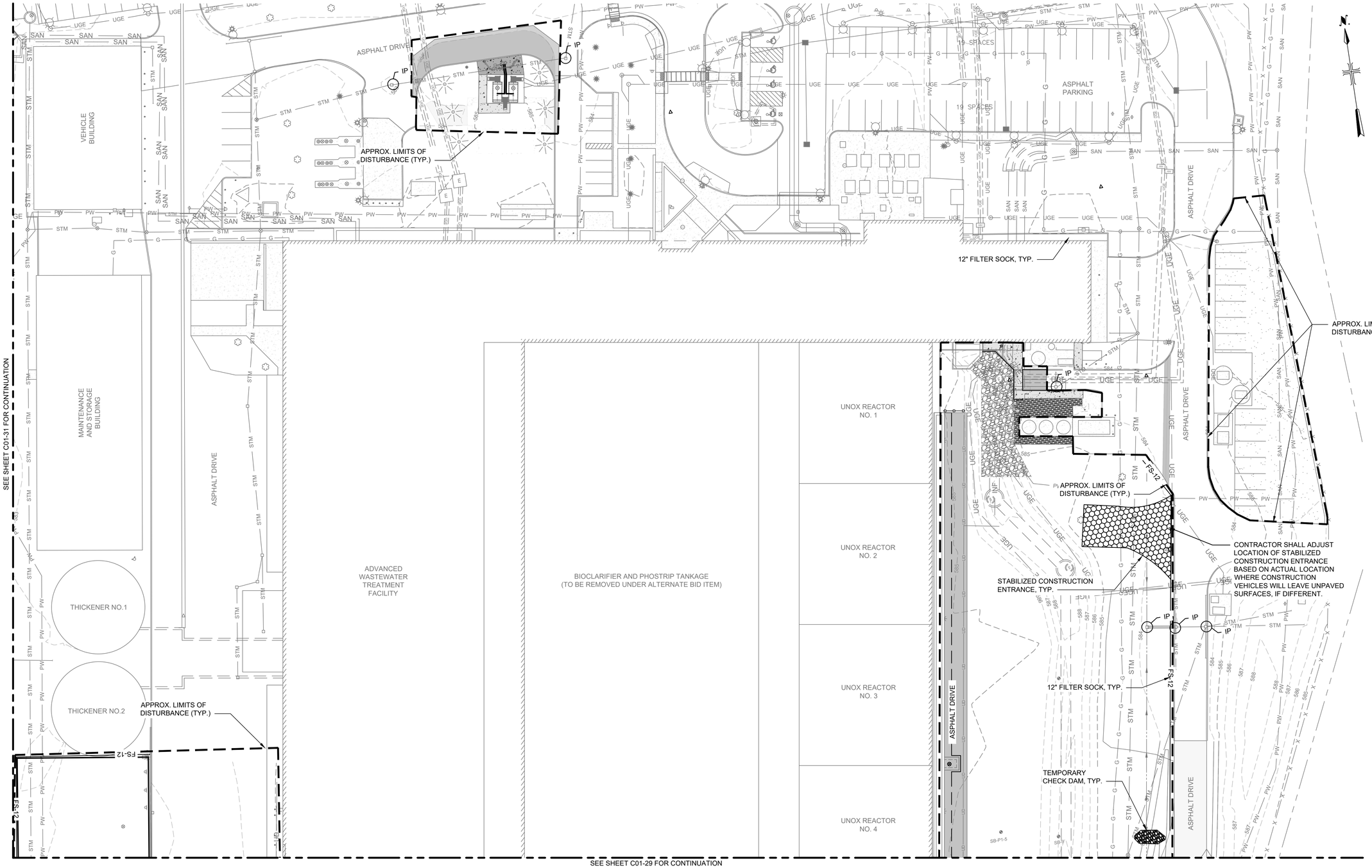
Sincerely,

R. Daniel Mackay

Deputy State Historic Preservation Officer
Division for Historic Preservation

Attachment E: Erosion and Sediment Control Plans - Phase 2 Only





LEGEND

- FS-12 — 12" FILTER SOCK
- APPROXIMATE LIMITS OF DISTURBANCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY CHECK DAM
- IP — INLET PROTECTION

EROSION AND SEDIMENT CONTROL PARTIAL PLAN - I

1"=30' (30 0 30)

NOTE:

THE LOCATION OF ALL MEASURES SHOWN IS APPROXIMATE. CONTRACTOR TO LOCATE EROSION CONTROL MEASURES TO BEST PROTECT ADJACENT AREAS AND WATERWAYS. THE SCHEMATICS SHOWN ARE FOR REFERENCE ONLY. ADDITIONAL MEASURES MAY BE REQUIRED AND MAY NEED TO BE RELOCATED DURING VARYING PHASES OF CONSTRUCTION BASED ON THE CONTRACTORS MEANS, METHODS, AND SCHEDULE OF CONSTRUCTION.

ADDENDUM 75.2 - 95

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · 088920-1 · LICENSED PROFESSIONAL ENGINEER
8/26/2026

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK
COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: T. BROWN
DRAWN BY: T. BROWN
CHECKED BY: K. GREER

SHEET TITLE

CIVIL

EROSION AND SEDIMENT CONTROL PARTIAL PLAN - I

SCALE: 1" = 30' (BAR IS ONE INCH ON UNREDUCED DRAWING)

DRAWING NO.: C01-28

SHEET NO.: 48 OF

User:MICHAEL.TERRANA Spec-AUS-NCSMOD File:Y:\AMDA\DSON PROJECTS - ACTIVE\122302 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-28.DWG Scale:1:1 SavedDate:9/9/2026 Time:12:08 Plot Date: Michael Terrana; 9/9/2026; 12:32; Layout:C01-28

SEE SHEET C01-28 FOR CONTINUATION

PORTABLE SEDIMENT TANK

ADVANCED WASTEWATER TREATMENT FACILITY

BIOCLARIFIER AND PHOSTRIP TANKAGE (TO BE REMOVED UNDER ALTERNATE BID ITEM)

UNOX REACTOR NO. 4

UNOX REACTOR NO. 5

UNOX REACTOR NO. 6

ASPHALT DRIVE

RING CONTRACTOR STAGING AREA WITH FILTER SOCK. RELOCATE FOR CONSTRUCTION OF BIORETENTION FACILITY. ONCE CONSTRUCTED, RING BIORETENTION FACILITY WITH FILTER SOCK.

CLARIFIER NO. 1

CLARIFIER NO. 2

CLARIFIER NO. 3

CLARIFIER NO. 4

EROSION CONTROL MATTING, TYP.

TEMPORARY CHECK DAM, TYP.

12" FILTER SOCK

RAS/WAS PUMP STATION

TEMPORARY CHECK DAM, TYP.

APPROX. LIMITS OF DISTURBANCE (TYP.)

PROPERTY LINE

FINISHED PAVED AREAS SHOWN ON PLAN FOR REFERENCE. CONTRACTOR SHALL ADJUST LOCATION OF STABILIZED CONSTRUCTION ENTRANCE BASED ON ACTUAL LOCATION WHERE CONSTRUCTION VEHICLES WILL LEAVE UNPAVED SURFACES, IF DIFFERENT.

WASH RACK

STABILIZED CONSTRUCTION ENTRANCE, TYP.

CONCRETE WASHOUT

RING CONTRACTOR STAGING AREA WITH FILTER SOCK. RELOCATE FOR CONSTRUCTION OF BIORETENTION FACILITY. ONCE CONSTRUCTED, RING BIORETENTION FACILITY WITH FILTER SOCK.

CONTRACTOR STAGING AREA

BIORETENTION AREA 5

OVERFLOW RETENTION FACILITY

SEE SHEET C01-32 FOR CONTINUATION

SEE SHEET C01-30 FOR CONTINUATION

LEGEND

- FS-12 — 12" FILTER SOCK
- APPROXIMATE LIMITS OF DISTURBANCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY CHECK DAM
- IP — INLET PROTECTION

EROSION AND SEDIMENT CONTROL PARTIAL PLAN - II

1"=30'

30 0 30

NOTES:

1. THE LOCATION OF ALL MEASURES SHOWN IS APPROXIMATE. CONTRACTOR TO LOCATE EROSION CONTROL MEASURES TO BEST PROTECT ADJACENT AREAS AND WATERWAYS. THE SCHEMATICS SHOWN ARE FOR REFERENCE ONLY. ADDITIONAL MEASURES MAY BE REQUIRED AND MAY NEED TO BE RELOCATED DURING VARYING PHASES OF CONSTRUCTION BASED ON THE CONTRACTORS MEANS, METHODS, AND SCHEDULE OF CONSTRUCTION.
2. STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED AS LATE IN THE CONSTRUCTION SCHEDULE AS FEASIBLE TO MINIMIZE IMPACTS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MODIFIED TO BEST PROTECT STORMWATER MANAGEMENT FACILITIES ONCE CONSTRUCTED.
3. STORMWATER MANAGEMENT FACILITIES MAY NOT BE UTILIZED AS SEDIMENT TRAPS. ANY ACCUMULATED SEDIMENT MUST BE REMOVED PRIOR TO INSTALLATION OF BIORETENTION MATERIALS.

User:MICHAELTERRANA Spec:AIS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122202 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-28.DWG Scale:1:1 SavedDate:8/20/2026 Time:16:26 Plot Date: Michael Terrana: 9/9/2026, 12:36 Layout:C01-29

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · 088920-1 · LICENSED PROFESSIONAL ENGINEER
8/26/2026

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SEAL OF ERIE COUNTY STATE OF NEW YORK

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.:	30119430
DATE:	SEPTEMBER 2026
DESIGNED BY:	T. BROWN
DRAWN BY:	C. GOERSS-MURPHY
CHECKED BY:	K. GREER

SHEET TITLE

CIVIL

EROSION AND SEDIMENT CONTROL PARTIAL PLAN - II

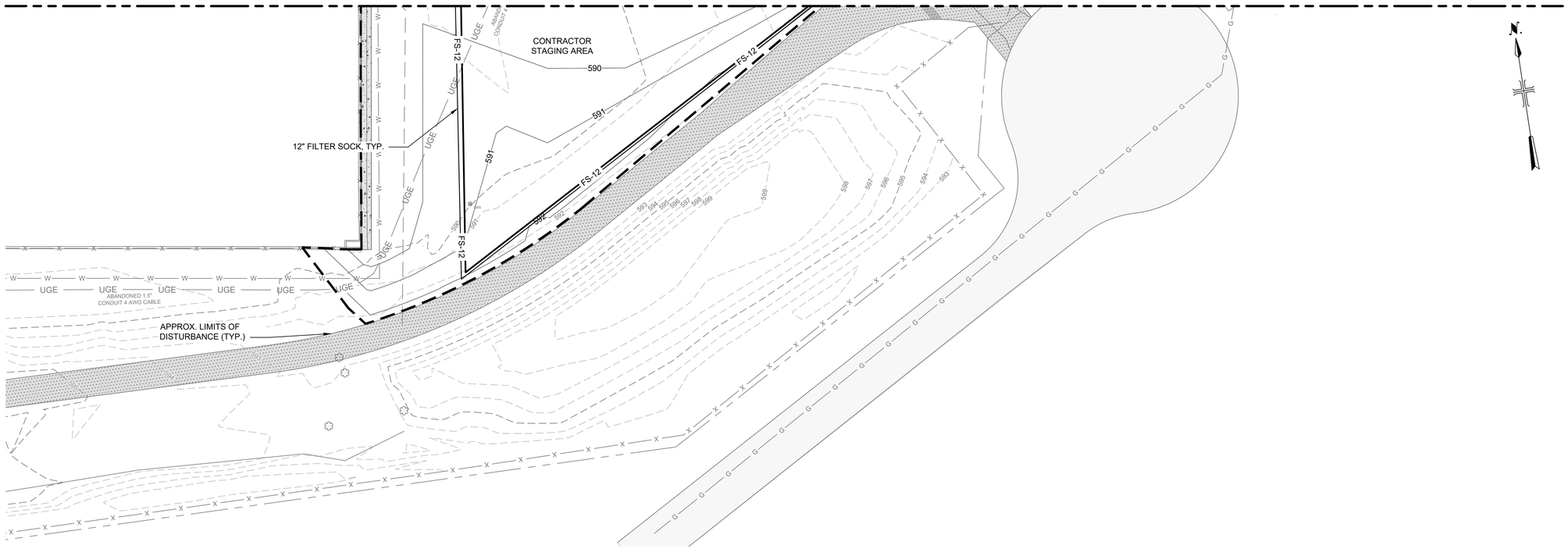
SCALE: 1" = 30'

0 BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-29

SHEET NO.: 49 OF

SEE SHEET C01-29 FOR CONTINUATION



EROSION AND SEDIMENT CONTROL PARTIAL PLAN - III

1"=30' 30 0 30

NOTE:

THE LOCATION OF ALL MEASURES SHOWN IS APPROXIMATE. CONTRACTOR TO LOCATE EROSION CONTROL MEASURES TO BEST PROTECT ADJACENT AREAS AND WATERWAYS. THE SCHEMATICS SHOWN ARE FOR REFERENCE ONLY. ADDITIONAL MEASURES MAY BE REQUIRED AND MAY NEED TO BE RELOCATED DURING VARYING PHASES OF CONSTRUCTION BASED ON THE CONTRACTORS MEANS, METHODS, AND SCHEDULE OF CONSTRUCTION.

LEGEND

- FS-12 — 12" FILTER SOCK
- APPROXIMATE LIMITS OF DISTURBANCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY CHECK DAM
- IP — INLET PROTECTION

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · 088920-1 · LICENSED PROFESSIONAL ENGINEER
8/26/2026

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: T. BROWN
DRAWN BY: T. BROWN
CHECKED BY: K. GREER

SHEET TITLE

CIVIL

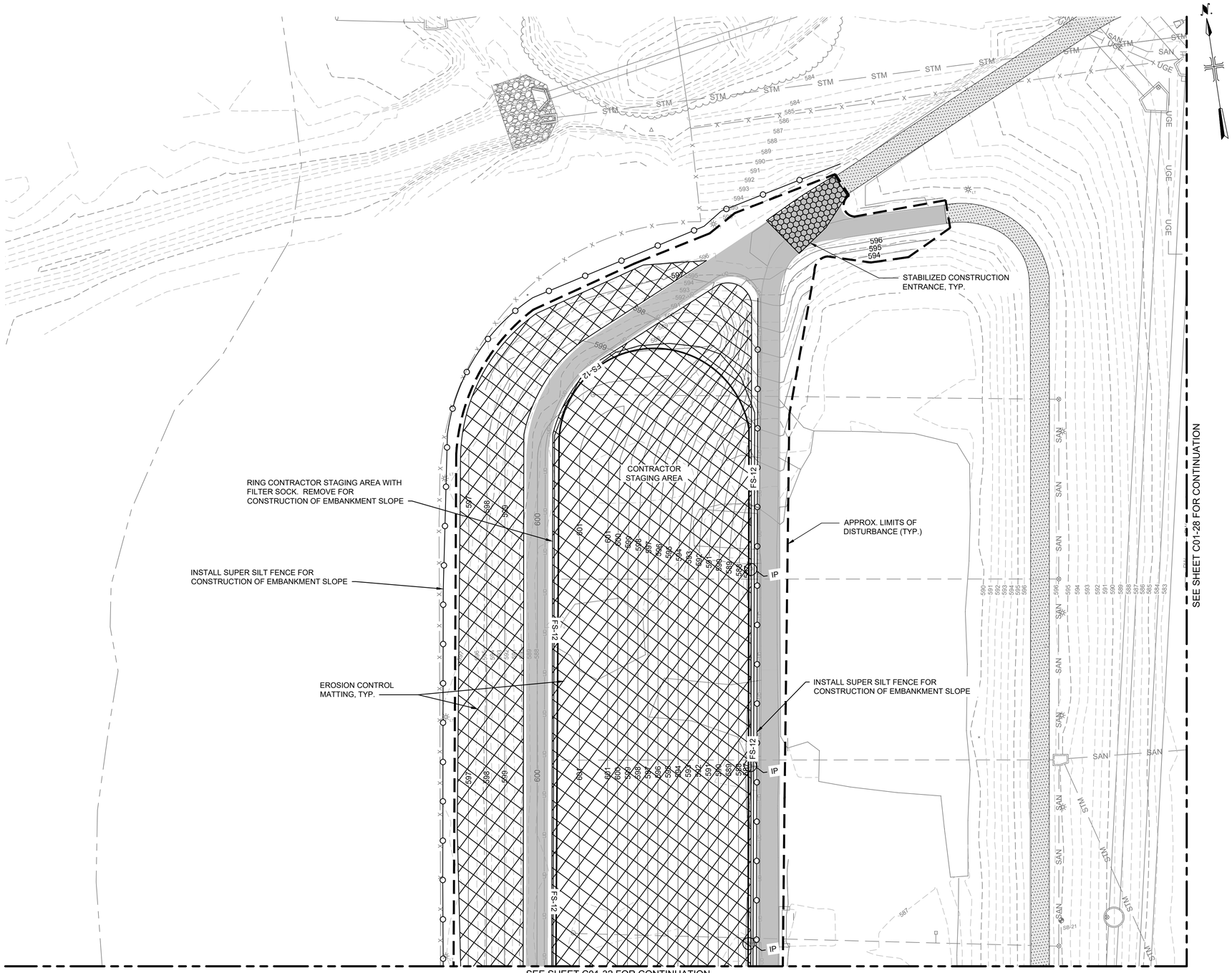
EROSION AND SEDIMENT CONTROL PARTIAL PLAN - III

SCALE: 1" = 30'
0 1
BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-30

SHEET NO.: 50 OF

User:KRISTAGREER Spec:AUS-NCSMOD File:Y:\JMDAVIDSON PROJECTS - ACTIVE\122202 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-30.DWG Scale:1:1 Saved:Date:8/20/2026 Time:16:26 Plot Date: Michael Terrana: 9/9/2026; 12:32 ; Layout:C01-30



LEGEND

- FS-12 — 12" FILTER SOCK
- APPROXIMATE LIMITS OF DISTURBANCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- SUPER SILT FENCE
- TEMPORARY CHECK DAM
- IP — INLET PROTECTION

EROSION AND SEDIMENT CONTROL PARTIAL PLAN - IV

1"=30' (30 0 30)

NOTE:

THE LOCATION OF ALL MEASURES SHOWN IS APPROXIMATE. CONTRACTOR TO LOCATE EROSION CONTROL MEASURES TO BEST PROTECT ADJACENT AREAS AND WATERWAYS. THE SCHEMATICS SHOWN ARE FOR REFERENCE ONLY. ADDITIONAL MEASURES MAY BE REQUIRED AND MAY NEED TO BE RELOCATED DURING VARYING PHASES OF CONSTRUCTION BASED ON THE CONTRACTORS MEANS, METHODS, AND SCHEDULE OF CONSTRUCTION.

ADDENDUM 75.2 - 98

User:KRISTAGREER Spec:AUS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122202 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-31.DWG Scale:1:1 SavedDate:8/20/2026 Time:16:26 Plot Date: Michael Terrana: 9/8/2026; 12:29 ; Layout:C01-31

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · 088920-1 · LICENSED PROFESSIONAL ENGINEER
8/26/2026

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.:	30119430
DATE:	SEPTEMBER 2026
DESIGNED BY:	M. TERRANA
DRAWN BY:	M. TERRANA
CHECKED BY:	K. GREER

SHEET TITLE

CIVIL

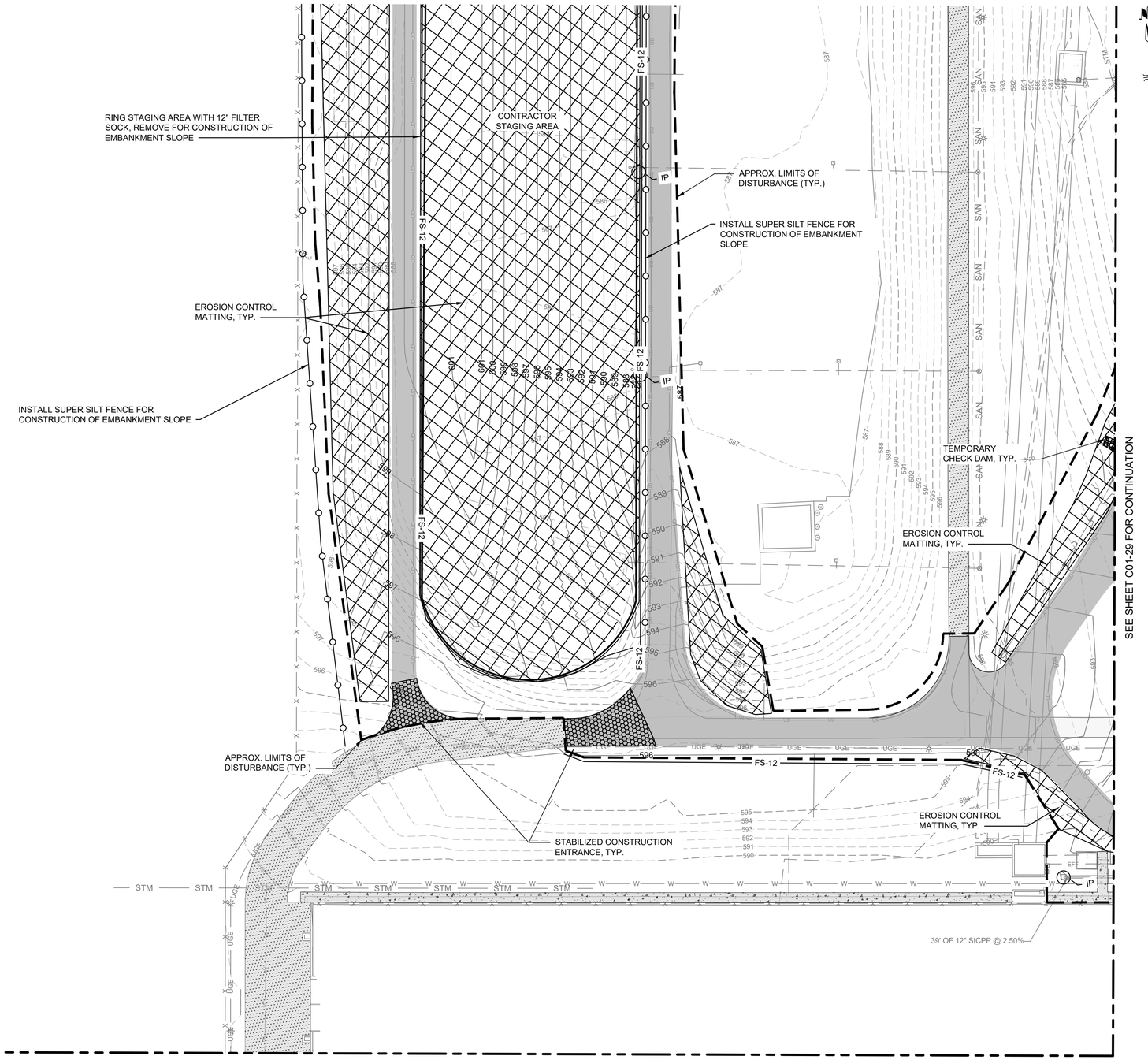
EROSION AND SEDIMENT CONTROL PARTIAL PLAN - IV

SCALE: 1" = 30' (BAR IS ONE INCH ON UNREDUCED DRAWING)

DRAWING NO.: C01-31

SHEET NO.: 51 OF

SEE SHEET C01-31 FOR CONTINUATION



LEGEND

- FS-12 — 12" FILTER SOCK
- APPROXIMATE LIMITS OF DISTURBANCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- SUPER SILT FENCE
- TEMPORARY CHECK DAM
- IP — INLET PROTECTION

EROSION AND SEDIMENT CONTROL PARTIAL PLAN - V

NOTE:

THE LOCATION OF ALL MEASURES SHOWN IS APPROXIMATE. CONTRACTOR TO LOCATE EROSION CONTROL MEASURES TO BEST PROTECT ADJACENT AREAS AND WATERWAYS. THE SCHEMATICS SHOWN ARE FOR REFERENCE ONLY. ADDITIONAL MEASURES MAY BE REQUIRED AND MAY NEED TO BE RELOCATED DURING VARYING PHASES OF CONSTRUCTION BASED ON THE CONTRACTORS MEANS, METHODS, AND SCHEDULE OF CONSTRUCTION.

User:KRISTA.GREER Sync:ALIS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122202 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-32.DWG Scale:1:1 SavedDate:8/20/2026 Time:16:26 Plot Date: Michael Terrana: 9/8/2026; 12:28 ; Layout:C01-32

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · 088920-1 · LICENSED PROFESSIONAL ENGINEER
8/26/2026

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: T. BROWN
DRAWN BY: T. BROWN
CHECKED BY: K. GREER

SHEET TITLE

CIVIL

EROSION AND SEDIMENT CONTROL PARTIAL PLAN - V

SCALE: 1" = 30'
0 BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-32
SHEET NO.: 52 OF

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED, INSPECTED, MONITORED, AND MAINTAINED AS SPECIFIED IN THE PROJECT SPECIFICATIONS, THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND THE SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY, GP-0-25-001.

2. THIS PROJECT IS BEING PROCESSED AS A CONTINUATION/MODIFICATION TO THE ACTIVE PERMIT AUTHORIZATION UNDER THE GP-0-25-001. THE PERMIT IDENTIFICATION NUMBER IS NYR11L835. THE PROJECT SWPPP WILL BE UPDATED TO INCLUDE ALL ADDITIONAL WORK INCLUDED IN THESE CONTRACT DOCUMENTS. INSPECTIONS AND MAINTENANCE SHALL BE CONDUCTED AS A CONTINUATION OF THE EXISTING SWPPP REQUIREMENTS.

3. WHERE THERE ARE INCONSISTENCIES BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS, GP-0-25-001 AND THE SWPPP, THE MORE STRINGENT REQUIREMENTS SHALL BE FOLLOWED.

4. IN ACCORDANCE WITH GP-0-25-001 AND THE SWPPP, THE CONTRACTOR SHALL DESIGNATE A TRAINED CONTRACTOR THAT WILL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL MEASURES, THE DAILY INSPECTIONS OF THE PROJECT SITE, AND THE MAINTENANCE AND MODIFICATION OF EROSION AND SEDIMENT CONTROL MEASURES. THE NAME AND QUALIFICATIONS (TRAINING AND CERTIFICATION) OF THIS INDIVIDUAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF THE PROJECT. THEIR CERTIFICATION DOCUMENTS SHALL BE INCLUDED AS PART OF THE SWPPP.

5. THE OWNER WILL PROVIDE THE QUALIFIED INSPECTOR, AS REQUIRED BY GP-0-25-001 AND THE SWPPP. THE QUALIFIED INSPECTOR WILL BE REQUIRED TO CONDUCT WEEKLY INSPECTIONS, IN ACCORDANCE WITH THE SWPPP, AND PROVIDE INSPECTION REPORTS TO THE ENTIRE PROJECT TEAM.

6. THE PROJECT DOCUMENTS CONTAIN A POTENTIAL EROSION AND SEDIMENT CONTROL PLAN BASED ON THE ANTICIPATED SCOPE OF WORK AND LIKELY CONSTRUCTION OPERATIONS. AS WORK BEGINS, SHOULD THE CONTRACTOR IDENTIFY ADDITIONAL PHASES, SEQUENCES, OR OPERATIONS THAT VARY FROM WHAT IS DEPICTED ON THE CONTRACT DOCUMENTS, THE TRAINED CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ANY FIELD CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO SUBMIT A MODIFIED EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL PRIOR TO IMPLEMENTING FIELD CHANGES.

7. DETAILS OF LIKELY USED EROSION CONTROL MEASURES ARE INCLUDED IN THE PLANS; HOWEVER, THE 2016 NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK) ARE INCORPORATED TO THE PROJECT DOCUMENTS BY REFERENCE. IF NECESSARY, THE CONTRACTOR MAY UTILIZE ADDITIONAL MEASURES IDENTIFIED IN THE BLUE BOOK TO MINIMIZE EROSION.

8. THE SWPPP SHALL BE AMENDED AND RE-CERTIFIED BY A LICENSED OR CERTIFIED PROFESSIONAL IF THERE ARE CHANGES IN THE DESIGN OR CONSTRUCTION ACTIVITIES THAT MAY HAVE A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF SEDIMENT OR POLLUTANTS INTO WATERS OF THE U.S. OR VARIATIONS IN WATER QUALITY OR QUANTITY TREATMENT REQUIRED. COSTS ASSOCIATED WITH THE AMENDMENT OR RE-CERTIFICATION SHALL BE CONSIDERED EXTRA WORK AND REQUIRE AUTHORIZATION FROM THE ENGINEER AND OWNER.

9. THIS SITE IS ALSO COVERED BY A SPDES MULTI-SECTOR GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY, GP-0-23-001. IN ACCORDANCE WITH THE PERMIT, THE OWNER MUST COLLECT A DISCHARGE SAMPLE FROM THE STORMWATER OUTFALL QUARTERLY FOR VISUAL WET WEATHER MONITORING. THE MONITORING MUST BE MADE AT LEAST ONCE IN EACH OF THE FOLLOWING QUARTERS: JANUARY 1ST/ THROUGH MARCH 31ST/, APRIL 1ST/ THROUGH JUNE 30TH/, JULY 1ST/ THROUGH SEPTEMBER 30TH/, AND OCTOBER 1ST/ THROUGH DECEMBER 31ST/. ALL SAMPLES MUST BE COLLECTED DURING THE FIRST 30 MINUTES (OR AS SOON AS PRACTICAL, BUT NOT TO EXCEED ONE HOUR) OF THE DISCHARGE OF THE OUTFALL RESULTING FROM A QUALIFYING STORM EVENT WITH AT LEAST 0.1 INCH OF PRECIPITATION. IF THE VISUAL MONITORING INDICATES INCREASED TURBIDITY AND/OR CLOUDINESS, THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING CORRECTIVE ACTIONS. IF SUBSEQUENT QUARTERLY SAMPLES CONTINUE TO SHOW INCREASED TURBIDITY AND CLOUDINESS, THE CONTRACTOR WILL BE RESPONSIBLE FOR HIGH-PRESSURE JETTING OF THE STORMWATER COLLECTION SYSTEM. THE CONTRACTOR IS TO MAINTAIN REGULAR CONTACT WITH THE OWNER REGARDING POTENTIAL TESTING DATES AND MAY BE DIRECTED TO PROVIDE PRE-EMPTIVE SWEEPING OR INLET CLEANING IN ADVANCE OF POTENTIAL TESTING DATES.

10. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL THE WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE SITE. MODIFICATIONS TO AND/OR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED DEPENDING ON THE ACTUAL SITE CONDITIONS, SEQUENCE OF OPERATIONS, AND METHODS OF WORK.

12. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHMENT OF STAGING AND ACCESS AREAS AS NECESSARY TO PERFORM THE WORK, WITH THE APPROVAL OF THE ENGINEER AND OWNER. AVAILABLE AREAS ARE DEPICTED ON THE PLANS. ADDITIONAL AREAS NEED TO BE NEGOTIATED WITH THE ON-SITE FACILITY OPERATOR.

13. THE CONTRACTOR SHALL COVER TEMPORARY STOCKPILES OF ERODIBLE MATERIAL (SUCH AS TOPSOIL OR EARTH FILL) WITH POLY SHEETING, OR RING THE STOCKPILES WITH SILT FENCE AND/OR COMPOST FILTER SOCK TO CONTROL EROSION. POLY SHEETING SHALL COMPLETELY COVER THE STOCKPILE AND BE SECURELY ANCHORED AT ALL TIMES. ANY POLY SHEETING, COMPOST FILTER SOCK, OR SILT FENCE THAT IS DAMAGED SHALL BE PROMPTLY REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER. RINGED STOCKPILES UNUSED OR EXPECTED TO BE UNUSED FOR LONGER THAN 14 CALENDAR DAYS SHALL BE IMMEDIATELY STABILIZED WITH APPROPRIATE MEASURES.

14. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED WHEREVER CONSTRUCTION VEHICLES AND EQUIPMENT (INCLUDING PICK-UP TRUCKS) TRAVERSE FROM A PAVED SURFACE TO AN EARTH SURFACE. PRELIMINARY LOCATIONS ARE NOTED ON THE PLANS. ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE REQUIRED AT ALTERNATE LOCATIONS DEPENDING ON THE CONTRACTOR'S METHODS AND SEQUENCE OF OPERATIONS. THE CONTRACTOR SHALL ASSUME REGULAR REPLENISHMENT/REPLACEMENT OF CONSTRUCTION ENTRANCES TO MINIMIZE TRACKING OF SEDIMENTS.

15. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE SITE FOR OWNER PERSONNEL, OPERATIONS STAFF, AND REGULAR MAINTENANCE ACTIVITIES AT ALL TIMES. THE CONTRACTOR SHALL PLAN AND IMPLEMENT ALL NECESSARY STORMWATER POLLUTION PREVENTION AND EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO MAINTAIN COMPLIANCE WITH THE SWPPP AND SPDES PERMIT CONDITIONS, INCLUDING ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES, PERIMETER CONTROLS, SWEEPING, CLEANUP, AND MAINTENANCE AS NECESSARY DUE TO CONSTRUCTION ACTIVITIES AND THROUGH TRAFFIC GENERATED BY FACILITY OPERATIONS. ALL COSTS ASSOCIATED WITH SUCH WORK SHALL BE INCLUDED IN THE CONTRACT LUMP SUM.

16. DURING PERIODS OF MASS EXCAVATION AND HAULING, ENHANCED PROTECTION MEASURES SUCH AS TRUCK WASHES MAY BE REQUIRED TO MINIMIZE TRACKING OF SEDIMENTS. IT IS RECOMMENDED THAT WASH RACKS BE INCLUDED IN SUSCEPTIBLE CONSTRUCTION ENTRANCES.

17. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEARING OF ANY SEDIMENT TRACKED ON TO PAVED ROADWAYS THROUGHOUT THE SITE. WASHING OF THE SEDIMENT INTO ADJACENT WATERWAYS, DRAINAGE SWALES, STORM DRAIN SYSTEM, OR WETLANDS IS NOT PERMITTED. THE PAVED AREAS SHALL BE BROOM SWEPT AT A MINIMUM ONCE PER DAY WHEN THERE IS ACTIVE SOIL DISTURBANCE ON SITE. THE CONTRACTOR MAY NEED TO USE A SHOVEL TO REMOVE ACCUMULATED SEDIMENT AGAINST CURBS.

18. DUMP TRUCKS HAULING MATERIAL TO AND FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPAULIN.

19. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE FOR WHICH THEY ARE INTENDED AND SHALL REMAIN IN PLACE UNTIL SOILS ARE PERMANENTLY STABILIZED.

20. ALL INLETS IN PROJECT AREA, OR OTHERWISE IMPACTED BY PROJECT WORK (E.G., DOWNSTREAM OF WORK AREA OR WITHIN/NEAR TRAVEL AREAS), MUST HAVE PROTECTION. ADDITIONAL INLETS MAY REQUIRE PROTECTION AT DISCRETION OF THE QUALIFIED INSPECTOR OR ENGINEER.

21. FILTER SOCK INLET PROTECTION IS THE PREFERRED METHOD FOR INLET PROTECTION. DROP IN INLET PROTECTION BAGS MAY BE USED IN SELECT LOCATIONS WITH THE APPROVAL OF THE OWNER. HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING THE STORM DRAIN SYSTEM IF SEDIMENT FILTER BAGS ARE OVERTOPPED OR DAMAGED DURING REMOVAL AND SEDIMENT IS DISCHARGED INTO THE PIPE NETWORK.

22. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF FROM DISTURBED AREAS IS DIVERTED TO APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL DEVICES BEFORE ENTERING A WATER BODY, STORM DRAIN SYSTEM, OR WETLAND.

23. CLEARING, GRUBBING, AND VEGETATION REMOVAL SHALL BE LIMITED TO NO MORE THAN THAT INDICATED ON THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

24. THE CONTRACTOR MAY INSTALL TEMPORARY STABLE HAUL PATHS WHERE NECESSARY TO ENTER/EXIT AREAS OF PROPOSED WORK. TEMPORARY HAUL PATHS MUST BE REMOVED AND RE-GRADED AND THE AREA STABILIZED AND RESTORED IMMEDIATELY AFTER THE PATH IS NO LONGER NEEDED.

25. DUE TO THE CONFINED NATURE OF THE SITE, DEWATERING OF EXCAVATION AREAS SHALL BE PUMPED TO A PORTABLE SEDIMENT TANK. THE USE OF SEDIMENT FILTER BAGS OR SEDIMENT FILTER PUMP MAY ONLY BE USED AT SELECT LOCATIONS, IF APPROVED BY THE QUALIFIED INSPECTOR.

26. THE CONTRACTOR IS REQUIRED TO WASH ALL CONCRETE EQUIPMENT IN A DESIGNATED CONCRETE WASHOUT AREA THAT IS LOCATED A LEAST 100 FT AWAY FROM A WATER BODY. DUMPING OF CONCRETE WASTE MATERIALS ON THE GROUND IS NOT PERMITTED.

27. UNDER NO CONDITION SHALL DISCONTINUED CONSTRUCTION ACTIVITIES IN AREAS WITH SOIL DISTURBANCES BE LEFT FOR A PERIOD OF GREATER THAN 14 CALENDAR DAYS WITHOUT TEMPORARY STABILIZING THOSE AREAS WITH TEMPORARY SEED AND MULCH. MULCH SHALL BE MAINTAINED UNTIL SUITABLE VEGETATIVE COVER IS ESTABLISHED.

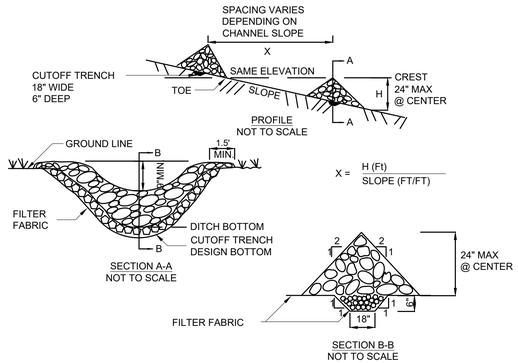
28. STORMWATER MANAGEMENT FACILITIES ARE TO BE CONSTRUCTED AS CLOSE TO THE END OF CONSTRUCTION AS FEASIBLE TO MINIMIZE IMPACTS FROM CONSTRUCTION DEBRIS, SEDIMENTATION, AND COMPACTION.

29. UNLESS DIRECTED OTHERWISE, ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED AND MULCHED FOR TURF ESTABLISHMENT.

30. ALL GRADED SURFACES WITH A FINISHED SLOPE OF 3H:1V OR GREATER SHALL BE STABILIZED WITH A TEMPORARY (6 TO 12 MONTH) BIODEGRADABLE ROLLED EROSION CONTROL PRODUCT.

31. WHEN THE PROJECT IS COMPLETED AND FULLY STABILIZED, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE DISPOSED OF ON SITE WHERE IT CANNOT BE WASHED INTO ANY WATERS.

32. 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 PREVIOUS 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 STRUCTURE, CONCRETE OR PAVEMENT.

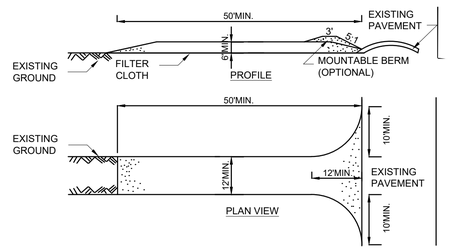


CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

   MAXIMUM DRAINAGE AREA 2 ACRES.
6. TEMPORARY CHECK DAMS WILL BE EVALUATED OVER THE DURATION OF THE COURSE OF CONSTRUCTION TO DETERMINE IF TO REMAIN AS PERMANENT. CONTRACTOR TO COORDINATE WITH ENGINEER PRIOR TO REMOVAL.

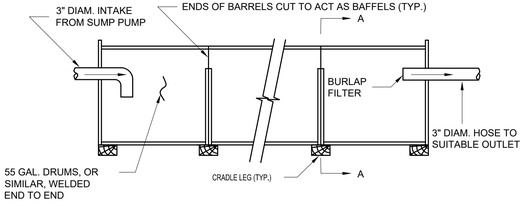
1 STONE CHECK DAM
C01-33

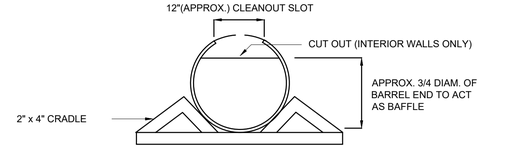


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

3 STABILIZED CONSTRUCTION ENTRANCE
C01-33

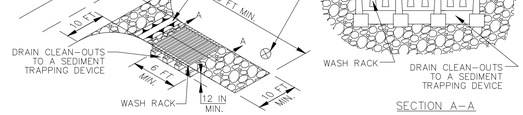




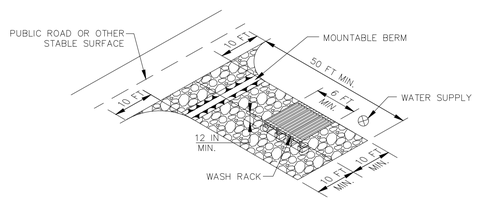
CONSTRUCTION SPECIFICATIONS

1. CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT.
2. STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANKS MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS ARE MET.
3. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE OR AS APPROVED BY THE INSPECTOR.

2 PORTABLE SEDIMENT TANK
C01-33



ISOMETRIC VIEW – WASH RACK IN SCE



ISOMETRIC VIEW– WASH RACK ALONG SCE

CONSTRUCTION SPECIFICATIONS

1. USE A WASH RACK DESIGNED AND CONSTRUCTED/MANUFACTURED FOR THE ANTICIPATED TRAFFIC LOADS. CONCRETE, STEEL, OR OTHER MATERIALS ARE ACCEPTABLE. PRE-FABRICATED UNITS SUCH AS CATTLE GUARDS ARE ACCEPTABLE. USE MINIMUM DIMENSION OF 6 FEET x 10 FEET. ORIENT DIRECTION OF RIBS AS SHOWN ON THE DETAIL.
2. INSTALL PRIOR TO, ALONG SIDE OF, OR AS PART OF THE SCE.
3. DIRECT WASH WATER TO AN APPROVED SEDIMENT TRAPPING DEVICE.
4. KEEP AREA UNDER WASH RACK FREE OF ACCUMULATED SEDIMENT. IF DAMAGED, REPAIR OR REPLACE WASH RACK.

4 WASH RACK
C01-33

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · 089920-1 · LICENSED PROFESSIONAL ENGINEER
8/26/2026

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: T. BROWN
DRAWN BY: T. BROWN
CHECKED BY: K. GREER

SHEET TITLE

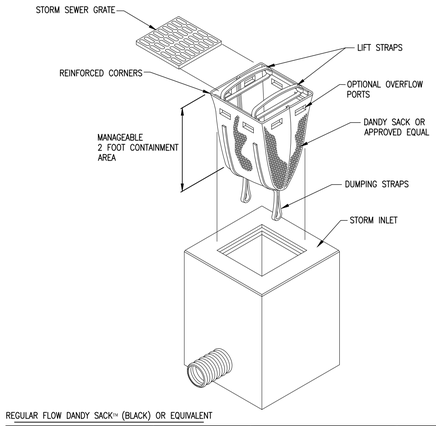
CIVIL

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - I

SCALE: N.T.S.
0 BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-33
SHEET NO.: 53 OF

User:KRISTA.GREER Spec:AUS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122202.ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-33.DWG Scale:1:1 SavedDate:8/20/2026 Time:16:35 Plot Date: Michael Terrana, 8/8/2026, 12:31 | Layout:C01-33



REGULAR FLOW DANDY SACK™ (BLACK) OR EQUIVALENT

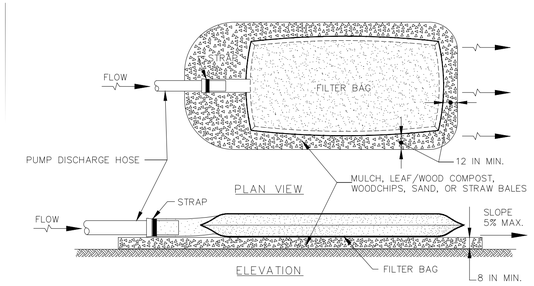
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
GRAB TENSILE ELONGATION	ASTM D 4632	%	15 x 15
PUNCTURE STRENGTH	ASTM D 4833	kN (lbs)	0.67 (150)
MULLEN BURST STRENGTH	ASTM D 3786	kPa (psi)	5506 (800)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
FLOW RATE	ASTM D 4491	1/min/m² (gal/min/ft²)	2852 (70)
PERMITTIVITY	ASTM D 4491	Sec ⁻¹	0.90

NOTES:

1. THIS INLET PROTECTION SHALL ONLY BE INSTALLED, WITH ENGINEER'S APPROVAL, IN PAVED AREAS WITH ACTIVE TRAFFIC.
2. THE INLET PROTECTION SHALL BE INSPECTED WEEKLY AND AFTER EVERY STORM EVENT. SEDIMENT SHALL BE REMOVED AT A MINIMUM BIWEEKLY AND DISPOSED OF ON THE SITE. IF FOUND TO BE TORN, IT SHALL BE REPLACED WITHIN 24 HOURS OF INSPECTION.

1 DROP IN INLET PROTECTION

C01-34



CONSTRUCTION SPECIFICATIONS

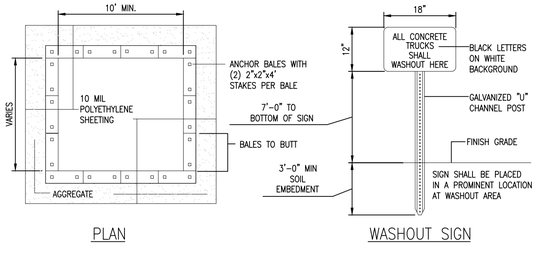
1. TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
2. PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
3. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
4. REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
5. USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

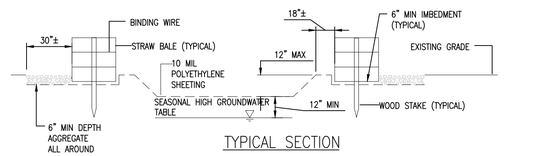
GRAB TENSILE	250 LB	ASTM D-4632
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/FT²	ASTM D-4491
PERMITTIVITY (SEC⁻¹)	1.2 SEC⁻¹	ASTM D-4491
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15–0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632

6. REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

2 SEDIMENT FILTER BAG

C01-34



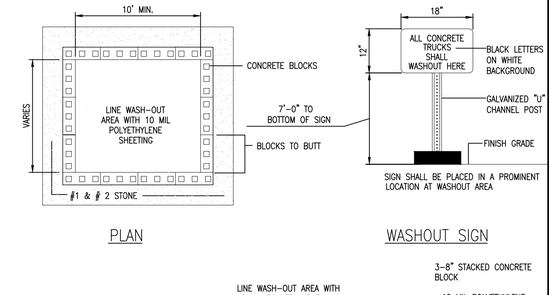


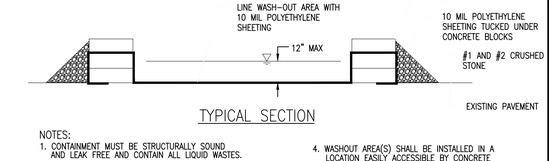
NOTES:

1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

3 CONCRETE WASHOUT AREA

C01-34



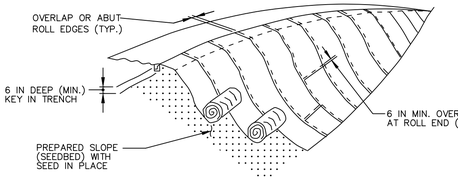


NOTES:

1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 12" FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. INSTALL CONCRETE BLOCKS IN A SINGLE ROW AROUND THE PERIMETER OF THE WASH-OUT AREA WITH ENDS OF ADJACENT BLOCKS ABUTTING.

4 CONCRETE WASHOUT AREA ON PAVEMENT

C01-34

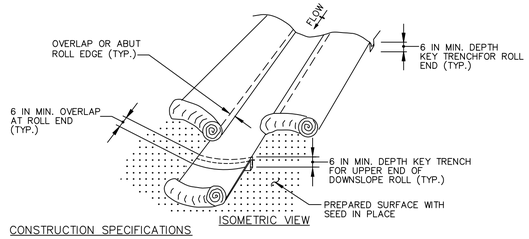


CONSTRUCTION SPECIFICATIONS

1. GEOTEXTILE SHALL MEET THE SPECIFICATIONS OF NYSDOT ROLLED EROSION CONTROL PRODUCT, CLASS II, TYPE C, SEE 713-07.
2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
5. UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
7. KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET.

5 EROSION CONTROL MATTING - SLOPE

C01-34

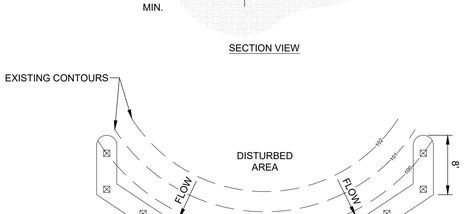


CONSTRUCTION SPECIFICATIONS

1. GEOTEXTILE SHALL MEET THE SPECIFICATIONS OF NYSDOT ROLLED EROSION CONTROL PRODUCT, CLASS II, TYPE C, SEE 713-07.
2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MAT SMOOTHLY AND FIRMLY ON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. KEY-IN UPSTREAM END OF EACH MAT ROLL BY DIGGING A 6 INCH (MINIMUM) TRENCH AT THE UPSTREAM END OF THE MATTING, PLACING THE ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END.
7. OVERLAP OR ABUT THE ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET.

6 EROSION CONTROL MATTING - DITCH/CHANNEL

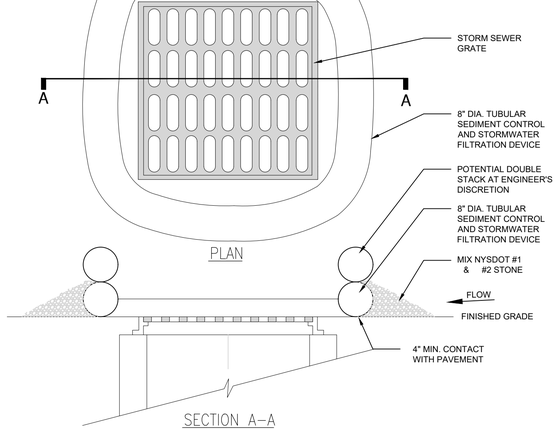
C01-34



1. SOCK FABRIC SHALL MEET THE STANDARDS SHOWN IN TABLE 5.1 COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. COMPOST SHALL MEET THE STANDARDS SHOWN IN TABLE 5.2 COMPOST STANDARDS TABLE IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
5. SOCKS SHALL BE INSPECTED DAILY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION. THE CONTRACTOR SHALL KEEP A PALLET OF SILT SOCK ON SITE AT ALL TIMES TO ENSURE REPLACEMENTS CAN BE DONE WITHOUT DELAY.
6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

7 COMPOST FILTER SOCK

C01-34



NOTES:

1. TUBULAR SEDIMENT CONTROL AND STORMWATER FILTRATION DEVICES SHALL BE FILTREXX FILTERSOXX, OR EQUIVALENT.
2. REPLACE AND DISPOSE OF PER MANUFACTURERS SPECIFICATIONS.
3. THIS PRACTICE INCLUDES SANDBAGS, COMPOST FILTER SOCKS, GEO-TUBES FILLED WITH BALLAST, AND MANUFACTURED SURFACE BARRIERS. PEA GRAVEL CAN ALSO BE USED IN CONJUNCTION WITH THESE PRACTICES TO IMPROVE PERFORMANCE. WHEN INLET IS NOT AT A LOW POINT, AND IS OFF-SET FROM THE PAVEMENT OR GUTTER LINE, PROTECTION SHOULD BE SELECTED AND INSTALLED SO THAT FLOWS ARE NOT DIVERTED AROUND INLET.
4. THE DRAINAGE AREA SHOULD BE LIMITED TO 1 ACRE AT THE DRAINAGE INLET. ALL PRACTICES WILL BE PLACED AT THE INLET PERIMETER OR BEYOND TO MAXIMIZE THE FLOW CAPACITY OF THE INLET. PRACTICES SHALL BE WEIGHTED, BRACED, TIED, OR OTHERWISE ANCHORED TO PREVENT MOVEMENT OR SHIFTING OF LOCATION ON PAVED SURFACES. TRAFFIC SAFETY SHALL BE INTEGRATED WITH THE USE OF THIS PRACTICE. ALL PRACTICES SHOULD BE MARKED WITH TRAFFIC SAFETY CONES AS APPROPRIATE. STRUCTURE HEIGHT SHALL NOT CAUSE FLOODING OR BY-PASS FLOW THAT WOULD CAUSE ADDITIONAL EROSION. THE STRUCTURE SHOULD BE INSPECTED DAILY AND AFTER EVERY STORM EVENT. ANY SEDIMENT SHOULD BE REMOVED AND DISPOSED OF ON THE SITE. STONE SHALL BE REPLACED AT A MINIMUM EVERY THREE MONTHS. ANY BROKEN OR DAMAGED COMPONENTS SHOULD BE REPLACED. CHECK ALL MATERIALS FOR PROPER ANCHORING AND SECURE AS NECESSARY.
5. IF USING THE COMPOST FILTER SOCK, THE COMPOST INFILL 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 MANMADE FOREIGN MATTER. WHEN USING COMPOST FILTER SOCKS ADJACENT TO SURFACE WATER, THE COMPOST SHOULD HAVE LOW NUTRIENT VALUE.

8 FILTER SOCK INLET PROTECTION

C01-34

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · 089920-1 · LICENSED PROFESSIONAL ENGINEER
8/26/2026

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: T. BROWN
DRAWN BY: T. BROWN
CHECKED BY: K. GREER

SHEET TITLE

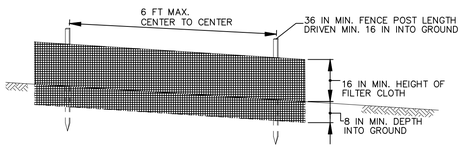
CIVIL

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - II

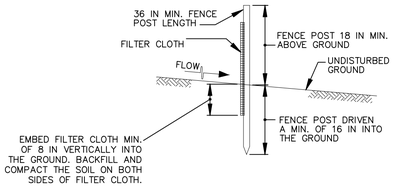
SCALE: N.T.S.
0 BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-34
SHEET NO.: 54 OF

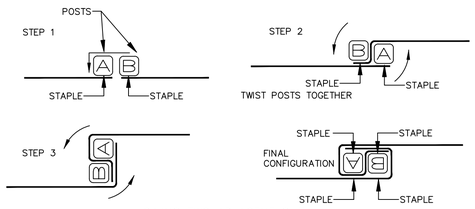
User:KRISTAGREER Sync:ALIS-NCSMOD File:V:\MDAVIDSON PROJECTS - ACTIVE\122200 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-34.DWG Scale:1:1 SavedDate:8/20/2026 Time:16:37 Plot Date: Michael Terrana: 9/8/2026; 12:31 | Layout:C01-34



ELEVATION



CROSS SECTION

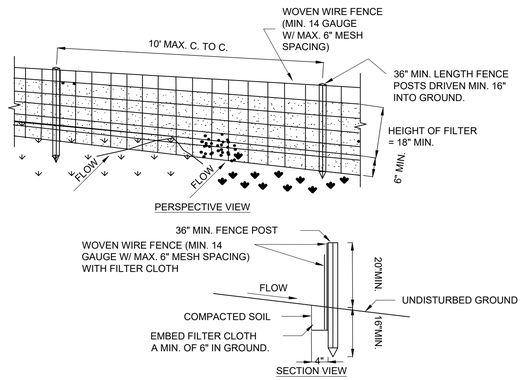


JOINING TWO ADJACENT SILT
FENCE SECTIONS (TOP VIEW)

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± 1/8 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT. FASTEN FILTER CLOTH SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID–SECTION.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. EMBED FILTER CLOTH A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF FILTER CLOTH ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE FILTER CLOTH IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

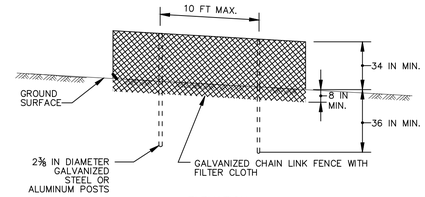
1 SILT FENCE
C01-35



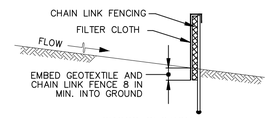
CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

2 REINFORCED SILT FENCE
C01-35



ELEVATION



CROSS SECTION

CONSTRUCTION SPECIFICATIONS

1. INSTALL 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2⅜ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT. FASTEN FILTER CLOTH SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED FILTER CLOTH AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE FILTER CLOTH IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND FILTER CLOTH.

3 SUPER SILT FENCE
C01-35

SILT FENCE MAXIMUM SLOPE AND FENCE LENGTH

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	5 / 250

TEMPORARY SEED AND MULCH

SEASON	SEED	RATE	MULCH
SPRING / SUMMER / EARLY FALL	RYEGRASS (ANNUAL OR PERENNIAL)	30 LBS PER ACRE (1 LB. PER 1,000 SF)	HAY OR STRAW AT 2 TONS PER ACRE (90 LBS PER SF) WITH ANCHORING WOOD FIBER HYDROMULCH OR OTHER NYSDOT APPROVED SPRAYABLE PRODUCTS FOR EROSION CONTROL MAY BE UTILIZED IF APPROVED BY ENGINEER.
LATE FALL / EARLY WINTER	CERTIFIED 'AROOSTOOK' WINTER RYE (CEREAL RYE)	100 LBS PER ACRE (2.5 LBS PER 1,000 SF)	
WINTER			

TURF ESTABLISHMENT SEED

COMMON NAME	BOTANICAL NAME	VARIETY	% BY WEIGHT	MULCH
FINE FESCUE (MUST INCLUDE CREEPING RED AND HARD FESCUE)	FESTUCA RUBRA VAR. & FESTUCA LONGIFOLIA	COMMERCIAL	10-25	HAY OR STRAW AT 2 TONS PER ACRE (90 LBS PER SF) WITH ANCHORING WOOD FIBER HYDROMULCH OR OTHER NYSDOT APPROVED SPRAYABLE PRODUCTS FOR EROSION CONTROL MAY BE UTILIZED IF APPROVED BY ENGINEER.
PERENNIAL RYEGRASS (2 VAR. MIN.)	LOLIUM PERENNE	COMMERCIAL "TURF" TYPE	10-40	
TALL FESCUE (2 VAR. MIN., SELECTED FOR SALT TOLERANCE)	FESTUCA ARUNDINACEA	COMMERCIAL "TURF" TYPE	24-45	
TICKLEGRASS (OR, IF UNAVAILABLE, REDTOP)	AGROSTIS SCABRA (OR AGROSTIS ALBA	COMMERCIAL	5-10	
ALKALIGRASS (WEEPING PREFERRED)	PUCCINELLIA DISTANS	COMMERCIAL	15-40	

CONTRACTOR MINIMUM INSPECTION AND MAINTENANCE REQUIREMENTS

EROSION AND SEDIMENT CONTROL PRACTICE	INSPECTION FREQUENCY	MAINTENANCE	MINIMUM REPLACEMENT[1]
STONE CHECK DAM	WEEKLY AND AFTER EACH STORM EVENT	REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN IT REACHES ONE-HALF THE HEIGHT OF THE WEIR CREST. DISPOSE OF SEDIMENT ON SITE.	STONE SHALL BE REPLACED, AT A MINIMUM, EVERY SIX MONTHS.
SILT FENCE	DAILY	REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. DISPOSE OF SEDIMENT ON SITE. IF UNDERMINING OCCURS, REINSTALL FENCE.	REPLACE GEOTEXTILE, AT A MINIMUM, ANNUALLY.
COMPOST FILTER SOCK	DAILY	REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN IT REACHES HALF THE HEIGHT OF THE SOCK. DISPOSE OF SEDIMENT ON SITE. IF OVERTOPPING OCCURS, REINSTALL SOCK.	FILTER SOCKS SHALL BE REPLACED, AT MINIMUM, EVERY SIX MONTHS.
DROP IN INLET PROTECTION	WEEKLY AND AFTER EACH STORM EVENT	SEDIMENT AND DEBRIS SHALL BE REMOVED FROM SACK AT A MINIMUM BIWEEKLY.	SHALL BE REPLACED, AT A MINIMUM, EVERY SIX MONTHS.
CONCRETE WASHOUT AREA	DAILY	ON SOIL - WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL. ON PAVEMENT - WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE WHEN WASHOUT IS 12" FULL. AFTER REMOVING ACCUMULATED SAND AND AGGREGATE, DISPOSE OF PROPERLY.	LINER SHALL BE REPLACED WITH EVERY CLEANING.
FILTER SOCK INLET PROTECTION	WEEKLY AND AFTER EACH STORM EVENT	REMOVE ACCUMULATED SEDIMENT AND DEBRIS AT A MINIMUM BIWEEKLY. DISPOSE OF SEDIMENT ON SITE.	STONE SHALL BE REPLACED, AT A MINIMUM, EVERY THREE MONTHS. FILTER SOCKS SHALL BE REPLACED, AT A MINIMUM, EVERY SIX MONTHS.
STABILIZED CONSTRUCTION ENTRANCE	WEEKLY AND AFTER EACH STORM EVENT	TOP DRESS WITH AGGREGATE IF SEDIMENT IS TRACKING ONTO PAVED AREAS.	REPLACE STONE, AT A MINIMUM, EVERY THREE MONTHS.
WASH RACK	WEEKLY AND AFTER EACH STORM EVENT	KEEP AREA UNDER WASH RACK FREE OF ACCUMULATED SEDIMENT.	REPLACE IF IT BECOMES DAMAGED BEYOND REPAIR.
PORTABLE SEDIMENT TANK	WEEKLY AND AFTER EACH STORM EVENT	CLEAN OUT SEDIMENT TANK WHEN ⅓ FILLED WITH SEDIMENT.	REPLACE IF IT BECOMES DAMAGED BEYOND REPAIR.
SEDIMENT FILTER BAG	WEEKLY AND AFTER EACH STORM EVENT	KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING UNDER FILTER BAG IF IT BECOMES DISPLACED. REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED AREA.	REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES.
EROSION CONTROL MATTING	WEEKLY AND AFTER EACH STORM EVENT	IF A MAT LIFTS, RE-STAKE TO ENSURE IT IS FLAT AGAINST THE SOIL. IF A MAT BECOMES DISPLACED, MOVE BACK INTO PLACE AND RE-STAKE. IF RILLS OR GULLIES FORM UNDERNEATH A MAT; PULL BACK MAT, FILL ERODED RILLS OR GULLIES, RE-SEED, AND RE-SECURE THE MAT.	REPLACE DAMAGED OR MISSING STAKES/STAPLES.

1 ANY CONTROL MEASURE THAT IS DAMAGED, REPAIR/REPLACEMENT ACTIONS MUST BEGIN WITHIN 1 BUSINESS DAY OF NOTIFICATION/INSPECTION.

User:MICHAELTERRANA Spec:AUS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122292 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-35.DWG Scale:1:1 SavedDate:9/2/2026 Time:16:53 Plot Date: Michael Terrana 9/8/2026; 12:30 - Layout:C01-35

ARCADIS
LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson
Engineering, D.P.C.

SEALS



8/26/2026

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: T. BROWN
DRAWN BY: T. BROWN
CHECKED BY: K.GREER

SHEET TITLE

CIVIL

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - III

SCALE: N.T.S.
0 BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-35
SHEET NO.: 55 OF

Attachment F: NYSDEC Technical Field Guidance – Spill Reporting and Initial Notification Requirements



TECHNICAL

FIELD GUIDANCE

SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS

NOTES

Spill Reporting and Initial Notification Requirements

GUIDANCE SUMMARY AT-A-GLANCE

- Reporting spills is a crucial first step in the response process.
- You should understand the spill reporting requirements to be able to inform the spillers of their responsibilities.
- Several different state, local, and federal laws and regulations require spillers to report petroleum and hazardous materials spills.
- The state and federal reporting requirements are summarized in Exhibit 1.1-1.
- Petroleum spills must be reported to DEC unless they meet all of the following criteria:
  - The spill is known to be less than 5 gallons; and
  - The spill is contained and under the control of the spiller; and
  - The spill has not and will not reach the State's water or any land; and
  - The spill is cleaned up within 2 hours of discovery.

  All reportable petroleum spills and most hazardous materials spills must be reported to DEC hotline (1-800-457-7362) within New York State; and (1-518 457-7362) from outside New York State. For spills not deemed reportable, it is strongly recommended that the facts concerning the incident be documented by the spiller and a record maintained for one year.
- Inform the spiller to report the spill to other federal or local authorities, if required.
- Report yourself those spills for which you are unable to locate the responsible spiller.
- Make note of other agencies' emergency response telephone numbers in case you require their on-scene assistance, or if the response is their responsibility and not BSPR's.

NOTES

1.1.1 Notification Requirements for Oil Spills and Hazardous Material Spills

Spillers are required under state law and under certain local and federal laws to report spills. These various requirements, summarized in Exhibit 1.1-1, often overlap; that is, a particular spill might be required to be reported under several laws or regulations and to several authorities. Under state law, all petroleum and most hazardous material spills must be reported to DEC Hotline (1-800-457-7362), within New York State, and to 1-518-457-7362 from outside New York State. Prompt reporting by spillers allows for a quick response, which may reduce the likelihood of any adverse impact to human health and the environment. Yo will often have to inform spillers of there responsibilities.

Although the spiller is responsible for reporting spills, other persons with knowledge of a spill, leak, or discharge is required to report the incident (see Appendices A and B). You will often have to inform spillers of their responsibilities. You may also have to report spills yourself in situations where the spiller is not known or cannot be located. However, it is the legal responsibility of the spiller to report spills to both state and other authorities.

BSPR personnel also are responsible for notifying other response agencies when the expertise or assistance of other agencies is needed. For example, the local fire department should be notified of spills that pose a potential explosion and/or fire hazard. If such a hazard is detected and the fire department has not been notified, call for their assistance immediately. Fire departments are trained and equipped to respond to these situations; you should not proceed with your response until the fire/safety hazard is eliminated. For more information on interagency coordination in emergency situations see Part 1, Section 3, Emergency Response.

Another important responsibility is notifying health department officials when a drinking water supply is found to be contaminated as a result of a spill. It will be the health department's responsibility to advise you on the health risk associated with any contamination.

Exhibits 1.1-1 and 1.1-2 list the state and federal requirements to report petroleum and hazardous substance spills, respectively. The charts describe the type of material covered, the applicable act or regulation, the agency that must be notified, what must be reported, and the person responsible for reporting. New York state also has a emergency notification network for spill situations (e.g., major chemical releases) that escalate beyond the capabilities of local and regional response agencies/authorities to provide adequate response. The New York State Emergency Management Office (SEMO) coordinates emergency response activities among local, state, and federal government organizations in these cases.

Exhibit 1.1-1

State and Federal Reporting Requirements for Petroleum Spills, Leaks, and Discharges

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Petroleum from any source	Navigation Law Article 12; 17 NYCRR 32.3 and 32.4	DEC Hotline 1-800-457-7362	The notification of a discharge must be immediate, but in no case later than two hours after discharge. 1. Name of person making report and his relationship to any person which might be responsible for causing the discharge. 2. Time and date of discharge. 3. Probable source of discharge. 4. The location of the discharge, both geographic and with respect to bodies of water. 5. Type of petroleum discharges. 6. Possible health or fire hazards resulting from the discharge. 7. Amount of petroleum discharged. 8. All actions that are being taken to clean up and remove the discharge. 9. The personnel presently on the scene. 10. Other government agencies that have been or will be notified.	Any person causing discharge of petroleum. Owner or person in actual or constructive control must notify DEC unless that person has adequate assurance that such notice has already been given.
All aboveground petroleum and underground storage facilities with a combined storage capacity of over 1100 gallons.	ECL §17-1007; 6 NYCRR §613.8	DEC Hotline 1-800-457-7362	1. Report spill incident within two hours of discovery. 2. Also when results of any inventory, record, test, or inspection shows a facility is leaking, that fact must be reported within two hours of discovery.	Any person with knowledge of a spill, leak, or discharge.
Petroleum contaminated with PCB.	Chemical Bulk Storage Act 6 NYCRR Parts 595, 596, 597	DEC Hotline 1-800-457-7362	Releases of a reportable quantity of PCB oil.	Owner or person in actual or constructive possession or control of the substance, or a person in contractual relationship, who inspects, tests, or repairs for owner.

Exhibit 1.1-1

State and Federal Reporting Requirements for Petroleum Spills, Leaks, and Discharges (continued)

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Any liquid (petroleum included) that if released would be likely to pollute lands or waters of the state.	ECL §17-1743	DEC Hotline 1-800-457-7362	Immediate notification that a spill, release, or discharge of any amount has occurred. Owner or person in actual or constructive possession or control of more than 1,100 gallons of the liquid.	
Petroleum Discharge in violation of §311(b)(3) of the Clean Water Act	40 CFR §110.10 (Clean Water Act)	1. National Response Center (NRC) 1-800-424-8802. 2. If not possible to notify NRC, notify Coast Guard or predesignated on-scene coordinator. 3. If not possible to notify either 1 or 2, reports may be made immediately to nearest Coast Guard units, provided NRC notified as soon as possible.	Immediate notification as soon as there is knowledge of an oil discharge that violates water quality standards or causes sheen on navigable waters. Procedures for notice are set forth in 33 CFR Part 153, Subpart B, and in the National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR Part 300, Subpart E.	Person in charge of vessel or on-shore or off-shore facility.
Petroleum, petroleum by-products or other dangerous liquid commodities that may create a hazardous or toxic condition spilled into navigable waters.	33 CFR 126.29 (Ports and Waters Safety Act)	Captain of the Port or District Commander	As soon as discharge occurs, owner or master of vessel must immediately report that a discharge has occurred.	Owner or master of vessel or owner or operator of the facility at which the discharge occurred.

Exhibit 1.1-1

State and Federal Reporting Requirements for Petroleum Spills, Leaks, and Discharges (continued)

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Petroleum or hazardous substance from a vessel, on-shore or off-shore facility in violation of §311(b)(3) of the Clean Water Act.	33 CFR 153.203 (Clean Water Act)	1. NRC U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593; 1-800-424-8802. 2. Where direct reporting not practicable, reports may be made to the Coast Guard (District Offices), the 3rd and 9th district of the EPA regional office at 26 Federal Plaza, NY, NY 10278; 1-201-548-8730. 3. Where none of the above is possible, may contact nearest Coast Guard unit, provided NRC notified as soon as possible.	Any discharger shall immediately notify the NRC of such discharge.	Person in charge of vessel or facility.

Exhibit 1.1-2

State and Federal Reporting Requirements for Hazardous Substance Spills, Leaks, and Discharges

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Any hazardous substance pursuant to Article 37. Does not include petroleum.	Chemical Bulk Storage Act 6 NYCRR Parts 595, 596, 597; ECL 40-0113(d)	DEC Hotline 1-800-457-7362	Releases of a reportable quantity of a hazardous substance.	Owner or person in actual or constructive possession or control of the substance, or a person in contractual relationship, who inspects, tests, or repairs for owner.
Hazardous materials or substances as defined in 49 CFR §171.8 that are transported. (See federal reporting requirements.)	Transportation Law 14(f); 17 NYCRR 507.4(b)	Local fire department or police department or local municipality	Immediate notification must be given of incident in which any of the following occurs as a direct result of a spill of hazardous materials: 1. Person is killed. 2. Person receives injuries requiring hospitalization. 3. Estimated damage to carrier or other property exceeds $50,000. 4. Fire, breakage, spillage, or suspected contamination due to radioactive materials. 5. Fire, breakage, spillage, or suspected contamination involving etiologic agents. 6. Situation is such that, in the judgment of the carrier, a continuing danger to life or property exists at the scene of the incident.	All persons and carriers engaged in the transportation of hazardous materials.

Exhibit 1.1-2
State and Federal Reporting Requirements for Hazardous Substance Spills, Leaks, and Discharges
(continued)

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Hazardous materials (wastes included) that are transported, whose carrier is involved in an accident.	Department of Transportation Regulations 49 CFR 171.15; 17 NYCRR Part 924; 17 NYCRR Part 507	1. U.S. Department of Transportation 1-800-424-8802 2. DEC Hotline 1-800-457-7362 3. Rail Carrier On-Duty 518-457-1046 Off-Duty 518-457-6164 4. Notify local police or fire department.	Notice should be given by telephone at the earliest practicable moment and should include: 1. Name of reporter. 2. Name and address of carrier represented by reporter. 3. Phone number where reporter can be contacted. 4. Date, time, and location of incident. 5. The extent of injuries, if any. 6. Classification, name and quantity of hazardous materials involved, if available. 7. Type of incident and nature of hazardous material involved and whether a continuing danger to life exists at scene. 8. Each carrier making this report must also make the report required by §171.16.	Each carrier that transports hazardous materials involves in an accident that causes any of the following as a direct result: 1. A person is killed 2. A person receives injuries requiring hospitalization 3. Estimated damage to carrier or other property exceeds $50,000 4. Fire, breakage, spillage, suspected or otherwise involving radioactive material. 5. Fire, breakage, spillage, suspected contamination involving etiologic agents. 6. Situation is such that carrier thinks it should be reported in accordance with paragraph b.

Exhibit 1.1-2
State and Federal Reporting Requirements for Hazardous Substance Spills, Leaks, and Discharges
(continued)

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Reportable quantity of a hazardous substance into navigable waters or adjoining shorelines. Substances are listed in 40 CFR 302.4.	Department of Transportation Regulations 49 CFR §171.16 as authorized by the Hazardous Materials Transportation Act	U.S. Coast Guard National Response Center (NRC), 1-800-424-8802 or 1-202-267-2675	As soon as person in charge becomes aware of a spill incident, he must notify NRC and provide the following information: 1. The information required by 49 CFR §171.15 (see above). 2. Name of shipper of hazardous substance. 3. Quantity of hazardous substance discharged, if known. 4. If person in charge is incapacitated, carrier shall make the notification. 5. Estimate of quantity of hazardous substance removed from the scene and the manner of disposition of any unremoved hazardous substance shall be entered in Part (H) of the report required by 49 CFR 171.16 (see above).	Person in charge of aircraft, vessel, transport vehicle, or facility. Must inform NRC directly, or indirectly through carrier.
Reportable quantity of a hazardous substance from vessel, on-shore or off-shore facility. Substances and requirements specified in 40 CFR §117.3.	40 CFR §117.21 as authorized under the FWPCA	NRC 1-800-424-8802. If not practicable report may be made to the Coast Guard (3rd or 9th Districts) District Offices or to EPA, designated On-Scene Coordinator, Region II, 26 Federal Plaza, NY, NY 10278; 1-201-548-8730	Immediate notification is required.	Person in charge of vessel, or on-shore or off-shore facility

Exhibit 1.1-2
State and Federal Reporting Requirements for Hazardous Substance Spills, Leaks, and Discharges
(continued)

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Facilities where a hazardous chemical is produced, used, or stored, and there is a reportable quantity of any extremely hazardous substance as set out in Appendix A to 40 CFR 355 or a CERCLA hazardous substance as specified in 40 CFR 302.4. (This section does not apply to a release that does not go beyond the facility, that emanates from a facility that is federally permitted, is continuous as defined under §103(f) of CERCLA or to any release exempt from CERCLA §103(a) reporting under §101(22) of CERCLA.)	40 CFR 355.40 (SARA) Releases of CERCLA Hazardous Substances are subject to release reporting requirements of CERCLA §103, codified at 40 CFR Part 302, in addition to being subject to the requirements of this Part.	Community emergency coordinator for the local emergency planning committee of any area likely to be affected and the State Emergency Response Commission of any state likely to be affected by the release. If there is no local emergency planning commission notification shall be made to relevant local emergency response personnel.	Immediately notify agencies at left and provide the following information when available: 1. Chemical name or identity of any substance involved in the release. 2. Indication of whether the substance is an extremely hazardous substance. 3. An estimate of the quantity released. 4. Time and duration of release. 5. Medium or media into which the release occurred. 6. Known health risks associated with emergency and where appropriate advice regarding medical attention for those exposed. 7. Proper precautions/actions that should be taken, including evacuation. 8. Names and telephone numbers of person to be contacted for further information. As soon as practicable after release, followup notification by providing the following information: 1. Actions taken to respond to and contain the release. 2. Health risks. 3. Advice on medical attention for exposed individuals.	Owner or operator of facility

Exhibit 1.1-2
State and Federal Reporting Requirements for Hazardous Substance Spills, Leaks, and Discharges
(continued)

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Hazardous liquids transported in pipelines, a release of which results in any circumstances as set out in 195.50(a) through (f). Also any incident that results in circumstances listed in 195.52(g).	49 CFR 195.50, 195.52 and 195.54 (Hazardous Liquid Pipeline Safety Act).	NRC, 1-800-424-8802	Notice must be given at the earliest practicable moment and the following information provided: 1. Name and address of the operator. 2. Name and telephone number of the reporter. 3. Location of the failure. 4. The time of the failure. 5. The fatalities and personal injuries, if any. 6. All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.	Operator of system.
Hazardous wastes in transport	40 CFR §263.30(a) (RCRA)	1. Local authorities 2. If required by 49 CFR 171.15, notify the NRC at 1-800-424-8802 or 1-202-426-2675 3. Report in writing to Director of Hazardous Materials Regulations, Materials Transportation Bureau, Department of Transportation, Washington, DC 20590	Notification must be immediate. For discharge of hazardous waste by air, rail, highway, or water, the transporter must: 1. Give notice as in 49 CFR 161.15 (if applicable). 2. Report in writing as in 49 CFR 171.16. Wastes transporter (bulk shipment) must give same notice as required by 33 CFR 153.20.	Transporter by air, rail, highway, or water.

Exhibit 1.1-2
State and Federal Reporting Requirements for Hazardous Substance Spills, Leaks, and Discharges
(continued)

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Vinyl Chloride from any manual vent valve, or polyvinyl chloride plants	Clean Air Act 40 CFR 61.64	Administrator of EPA	Within 10 days of any discharge from any manual vent valve, report must be made, in writing, and the following information provided: 1. Source, nature and cause of the discharge 2. Date and time of the discharge 3. Approximate total vinyl chloride loss during discharge 4. Method used for determining loss 5. Action taken to prevent the discharge 6. Measures adopted to prevent future discharges.	Owner or operator of plant.
Radioactive Materials	6 NYCRR §380.7	Commissioner of DEC	1. Notify immediately by telephone when concentration, averaged over a 24-hour period, exceeds or threatens to exceed 5000 times the limits set forth in Schedule 2 of 380.9 (in uncontrolled areas). 2. Notify within 24 hours by telephone when concentration, averaged over 24- hour period, exceeds or threatens to exceed 500 times the limits set forth in Schedule 2 above (in uncontrolled areas). 3. Report within 30 days the concentration and quantity of radioactive material involved, the cause of the discharge, and corrective steps taken or planned to ensure no recurrence of the discharge.	Operator of the radiation installation.

Exhibit 1.1-2
State and Federal Reporting Requirements for Hazardous Substance Spills, Leaks, and Discharges
(continued)

Materials Covered	Act or Regulation	Agency to Notify	What Must Be Reported and When	Who Must Report
Low Level radioactive wastes in transport. Any suspected or actual uncontrolled releases.	6 NYCRR 381.16 ECL §27-0305 Waste Transporter Permits	DEC and Department of Health	Immediate notification.	Transporter

TECHNICAL

FIELD GUIDANCE

SPILL REPORTING AND INITIAL NOTIFICATION ENFORCEMENT OF SPILLER RESPONSIBILITY

NOTES

Spill Reporting and Initial Notification -
Enforcement of Spiller Responsibility

GUIDANCE SUMMARY-AT-A-GLANCE

Use the "Notification Procedures Checklist" (Exhibit 1.1-3) to document conversations with the responsible party or potentially responsible party (PRP/RP) concerning his or her clean-up responsibilities.

The steps to follow when you inform the PRP/RP of his or her legal responsibility are:

-- Give your name and identify yourself as a DEC employee;

-- Inform them that they have been identified as the party responsible for the spill;

-- Inform PRP/Rps of their liability for all clean-up and removal costs. (If necessary, cite Section 181 of the Navigation Law);

-- Ask PRP/Rps "point blank" if they will accept responsibility for the cleanup; and

-- If the PRP/RP does not accept responsibility, or does not admit to being the PRP/RP, inform him or her that DEC will conduct the cleanup and send the bill to whoever is the PRP/RP. Also inform them that a DEC-conducted cleanup could be more costly than a PRP/RP-conducted cleanup, and that the PRP/RP could face interest charges and penalties for refusing to clean up the spill.

If the PRP/RP accepts responsibility for the cleanup:

(1) Send the PRP/RP a "Spiller Responsibility Letter" (Exhibit 1.1-5) and an "Acceptance of Financial Responsibility Form" (Exhibit 1.1-6) and

(2) Send the PRP/RP an "Option Letter," which should outline the options available to the PRP/RP to clean up the spill. See Exhibit 1.1-4 for a summary of how and when to use these forms and what they may include.

NOTES

1.1.2 Spill Reporting and Initial Notification - Enforcement of Spiller Responsibility

This section provides guidance on those steps you take to inform responsible parties or potentially responsible parties (PRP/Rps) or spillers of their responsibility under state law for cleaning up spills. This guidance applies to all contacts (by phone, by mail, or in person) you have with Rps throughout the response process concerning their fulfillment of this legal responsibility. The possible consequences of an RP's refusal or inability to conduct the spill response are also discussed.

1. State Law and Policy

Under Article 12 of the Navigation Law and Article 71 of the Environmental Conservation law (ECL), those parties responsible for a petroleum release are liable for all costs associated with cleaning up the spill as well as third party damages (see Introduction-A for more information). Section 181 of the Navigation Law states:

> *Any person who has discharged petroleum shall be strictly liable, without regard to fault, for all cleanup and removal costs and all direct damages, no matter by whom sustained as defined in this section.*

There are two ways by which PRP/RPs can pay for the costs associated with cleanups. First, the PRP/RP can reimburse the state for site investigation, clean-up, and remediation costs incurred by the State Oil Spill Fund or federal Leaking Underground Storage Tank (LUST) Trust Fund. Second, the PRP/RP can assume full responsibility for the cleanup from the beginning and bear all costs throughout the clean-up process. It is DEC's policy to make every effort to have PRP/RPs pay for cleanups from the outset.[1]

To achieve PRP/RP-directed and PRP/RP-financed cleanups, your responsibilities are to: (1) identify the PRP/RP(s), (2) inform them of their legal responsibilities for the spill, and (3) ensure that they carry out these responsibilities. All investigations of spills and PRP/RPs should be pursued vigorously and without prejudice. Use to your advantage the argument that having the PRP/RP assume responsibility for clean-up costs benefits both DEC and the spiller. It saves DEC the expense of cost-recovery procedures. It also allows the PRP/RP to be more involved in clean-up decisions (e.g., choosing their clean-up contractors) and, more significantly, it usually results in lower clean-up costs. Because the PRP/RP is responsible for all indirect costs incurred if DEC conducts the cleanup, the spiller will pay for the DEC contractor's clean-up work, as well as the supervision costs incurred by DEC, any third-party claims associated with the spill, and any punitive fines levied.

---

[1] Spillers are not only responsible for assuming the costs of a cleanup, but also can be subject to a $25,000 per day fine for not paying the clean-up costs (among other violations). The Navigation Law provides for these penalties in Section 192, which states:

> Any person who knowingly gives or causes to be given any false information as a part of, or in response to, any claim made pursuant to this article for cleanup and removal costs, direct or indirect damages resulting from a discharge, or who otherwise violates any of the provisions of this article or any rule promulgated thereunder or who fails to comply with any duty created by this article shall be liable to a penalty of not more than twenty-five thousand dollars for each offense in court of competent jurisdiction. If the violation is of a continuing nature each day during which it continues shall constitute an additional, separate, and distinct offense. (emphasis added)

NOTES

2. Notification Process

Part 1, Section 4, of this manual discusses the process of identifying the PRP/RP as part of the spill investigation for a particular site. Once you identify the PRP/RP, follow the guidance provided below for informing the PRP/RP of his or her responsibilities for spill cleanup. If you are uncertain about who the PRP/RP is, apply the procedures outlined below with all suspected RPs until the responsible party or parties are identified.

a. Informing RPs of Their Responsibility at the Spill Scene

It is important to inform PRP/RPs of their legal responsibility to clean up a spill as soon as possible. When you arrive at a spill site, you should immediately inform the representative of any PRP/RP of their liability under the Navigation Law and the Environmental Conservation Law. In doing so, follow the steps covered in the "Notification Procedures Checklist" (Exhibit 1.1-3).

Document completion of the notification steps, and identify your contact(s).

Although you should be firm and direct in informing the PRP/RP of their responsibility, you should make every attempt to avoid an adversarial relationship with the RP. The full cooperation of the PRP/RP will result in a more efficient and effective cleanup.

b. Informing Spillers of Their Responsibility in Writing

You should send three different letters to the PRP/RP to inform them of their responsibility (see Exhibit 1.1-4, "Notification Forms Summary"). If a site response was initiated and you are able to confirm the spill visually, the "Spiller Responsibility Letter" (Exhibit 1.1-5) along with an "Acceptance of Financial Responsibility Form" (Exhibit 1.1-6) should be sent as soon as possible. In addition, an "Option Letter" that informs the PRP/RP of their possible options for addressing a spill should be sent. These letters should be kept as part of the Corrective Action Plan (CAP) (see Part 1, Section 5, "Corrective Action Plans.")

Exhibit 1.1-3
Notification Procedures Checklist

Completed	Step	Date	Contact(s)
_____	1. Give your name and identify yourself as a DEC employee.		
_____	2. Inform the PRP/RP that he/she has been identified as the party responsible for the spill.		
_____	3. Inform PRP/RPs of their responsibility to pay for all clean-up costs. (As necessary, cite Section 181 of the Navigation Law or Article 71 of the ECL.)		
_____	4. Ask PRP/RPs "point blank" if they will accept responsibility for the cleanup. Response: _____ _____ _____ _____ _____		
_____	5. If the PRP/RP does not accept responsibility, or does not admit to being the spiller, inform him/her that DEC will conduct the cleanup and send the bill to whoever is the spiller.		
_____	6. If the PRP/RP does not accept responsibility also inform him or her that a DEC-conducted cleanup could be more costly than a spiller-conducted cleanup, and that the spiller could face interest charges and a fine for refusing to pay for the billed clean-up costs.		

Exhibit 1-A-4

Notification Forms Summary
(Send Forms by Certified Mail)

Notification Form	When and How to Use	Information to be Included
Spiller Responsibility Letter	Send by certified mail to PRP/RP for confirmed spill.	# Spill location; # Spiller's responsibility under the Navigation Law; # Penalties that can be levied if the spiller does not cooperate; and # Deadline for spiller to begin containment and removal of the spill.
Acceptance of Spiller Responsibility Form	Send by certified mail to PRP/RP for confirmed spill.	# Request for spiller's signature acknowledging his or her acceptance of responsibility for the spill cleanup.
Option Letter	Send by certified mail to PRP/RP for confirmed or suspected release (e.g., failed tightness test).	# Spill number; # Date spill was discovered or reported; # Exact location of the spill; # Authority of Article 12 of the Navigation Act; and # Penalties for noncompliance.

Exhibit 1.1-5

Spiller Responsibility Letter

[Date]

[Addressee]
[Address]

Dear [ ]:

This is to inform you that as a result of investigation by our Department, we consider you responsible for Petroleum Spill Number _____, dated _____, at _____. Under Article 12 of the Navigation Law, Section 192, any person who discharges petroleum without a permit and fails to promptly clean up such prohibited discharge may be subject to a penalty of up to $25,000 a day.

Containment and removal of this spill must be initiated within _____ hours.

Your failure to initiate timely spill cleanup and removal, in addition to the penalty stated above, will result in your being billed for all actual costs incurred by New York State as set forth in Section 181 of the Navigation Law. These costs include cleanup and removal, all direct and indirect damages, including damages incurred by third parties.

Sincerely,

Regional Spill Engineer
Region

Exhibit 1.1-6
Acceptance of Spiller Responsibility Letter

[Date]

SPILL #_____

ACCEPTANCE OF FINANCIAL RESPONSIBILITY

_____, hereby assumes responsibility for containment and
(Name of Company and Person)

cleanup of _____ discharged from_____
(Substance) (Source)

on _____, and recognizes that the determination of the adequacy and propriety of
(Date)

the containment and cleanup operation continues to rest with the New York State

Department of Environmental Conservation On-Scene Coordinator.

_____
(Authorized Signature and Title)

_____
(Name and Title Printed)

_____
(Address of Company)

_____
(Date and Time)

_____
(Witness)

NOTES

The "Spiller Responsibility Letter" informs spillers of their responsibility under the Navigation Law and explains the penalties that can be levied if the spiller does not cooperate. It should be sent to the spiller or suspected spiller as soon as a petroleum spill has been confirmed. The letter notifies the spiller that he or she is required to initiate containment and removal of the spill within a period of time you specify.

There are at least three factors you should consider when specifying a deadline in this letter:

- The size and nature of the spill;

- The proximity of the spill to, or its possible effects on, water supplies (surface or ground water), nearby homes and other structures, and/or sensitive environmental areas; and The possible environmental, safety, and/or human health effects of delaying containment and removal.

The "Acceptance of Spiller Responsibility Form" requires the spiller's signature acknowledging his or her responsibility for containment and cleanup of the spill. This form and the "Spiller Responsibility Letter" should be sent by certified mail.

The "Option Letter" outlines the possible options available to the PRP/RP for cleanup of the spill. The contents of this letter can vary somewhat depending on how the release was discovered (e.g., through a complaint or a failed tightness test), the extent and type of spill, and the policies and procedures of your regional office. There is, however, some information that should appear in every "Option Letter." All "Option Letters" should contain the following: spill number, date the spill was discovered, and exact location of the spill. In addition, the letter should cite the response authority provided DEC by Article 12 of the Navigation Act and describe the penalties for noncompliance.

Each "Option Letter" should outline clearly the options open to the PRP/RP to address the spill and the information you wish submitted, and may also specify certain deadlines for taking action. However, it is up to you to determine the particular options, information requirements, and dates you include in the letter. Depending on the circumstances, you may list in your letter one or several options from which the PRP/RP can choose. For example, when an UST fails an initial tank test the following options could be included:

- Conduct separate integrity tests on the piping and the tanks in order to verify the release source within the tank system.

- Remove the "non-tight" tank and either remove and dispose of all contaminated soils, or install monitoring wells.

NOTES

- Install monitoring wells and abandon the "non-tight" tank in-place.

- Remove the tank within 30 days, according to the requirements for tank removal (outline these requirements in the letter).

The "Option Letter" should always be sent by certified mail. In addition, you should have the PRP/RP inform you as soon as possible about the option(s) he or she has chosen.

Several examples of possible "Option Letters" are included as Exhibits 1.1-7 through 1.1-12. These are provided as examples only; you should use "Option Letters" developed by your own office, or develop your own.

Exhibit 1.1-7 is a sample option letter to an PRP/RP for removal of contaminated soil from an UST release. Note that this option letter includes: (a) specific requirements for removal of the contaminated soil; (b) dates for when the removal must be completed, and (c) requirements for the PRP/RP to forward to DEC copies of the landfill disposal receipt and ample test results. The additional sample option letters apply to the following situations: when an UST has failed an initial tightness test (Exhibit 1.1-8), when an UST fails an isolation tank test (Exhibit 1.1-9), when an UST fails a Petro-tite Systems Test (Exhibit 1.1-10), and ground-water contamination cleanup (Exhibit 1.1-11).

3. Dealing with Uncooperative Spillers

There are generally two ways in which an PRP/RP may fail to fulfill his or her legal responsibilities for spill cleanup: (1) a PRP/RP may refuse from the beginning to accept responsibility, or (2) an PRP/RP may fail to conduct a cleanup in the manner, or in as timely a fashion, as agreed upon with the DEC. If a PRP/RP refuses to cooperate from the outset, try again to change the RP's mind. Send additional notices of spiller responsibility (Exhibit 1.1-12) and/or initiate phone conversations with PRP/RPs to inform them again of the consequences of not cooperating (i.e., higher clean-up costs and possible penalties). If a party claims not to be the PRP/RP, you should inform them of your reasons for believing they are the PRP/RP under the Navigation Law.

If a PRP/RP agrees to conduct and pay for the cleanup and then does not proceed in the manner agreed upon or as quickly as agreed upon, you should inform the PRP/RP immediately that you are dissatisfied with the progress of the cleanup and that DEC is considering taking it over. There are no hard-and-fast rules for deciding when you should take over a cleanup. If possible, you should always work toward having the PRP/RP continue the cleanup in the agreed-upon manner. Attempt to determine why the cleanup is not proceeding as planned and consider means of helping the PRP/RP-directed cleanup get back on track.

Exhibit 1.1-7

Sample Option Letter:
Soil Cleanup Spill

[Date]

[Addressee]
[Address]

Dear [ ]:

This letter is to confirm your - (site meeting) (telephone conversation) with _____ of this Department on _____,
(Name) (day) (date) (year)
in regards to the above-mentioned spill site. This site involves _____
(explanation)
The following items were discussed and agreed upon:

1. All contaminated material must be removed and stored on site until it can be properly disposed of at a properly permitted landfill.

2. All contaminated material must be sampled for _____ _____. The results must be
(analyses)
negative for the material to be considered non-hazardous oily debris. You must contact your selected sanitary landfill to verify the sample analyses that they require for disposal.

3. A hauler with a Part 364 permit must be used to haul the contaminated soil to your selected landfill.

4. Please notify this Department after the work is completed but prior to any backfilling of the spill area so that an inspection of the excavation may be made.

5. Please forward to us a copy of the landfill disposal receipt and the sample results.

A schedule for this work is required by _____.
(day) (date) (year)
Cleanup must be performed by no later than _____.
(day) (date) (year)

If you have any questions, please feel free to contact _____
(Name)
at 847-4590. Your cooperation will be appreciated.

Very truly yours,

Senior Sanitary Engineer

Exhibit 1.1-8

Sample Option Letter:
Initial Tank Failure

[Date]

[Addressee]
[Address]

Dear [ ]:

This Department received notification on _____ that (a)
(day) (date) (year)
_____ tank(s) failed its (their) tank test performed by
(gallons) (product stored)
_____. On _____, Mr._____ of this Department
(contractor) (date) (name)
discussed with _____ that one of the following options must be done concerning this tank.
(person)

OPTION 1:

1. The tank is to be immediately isolated from the piping and is to be retested. If the tank tests tight, it may remain in service.
2. The lines are to be repaired, if necessary, and retested by a state-approved method. Exposed piping may be air tested.
3. A copy of any test results are to be sent to this office.

OPTION 2: If the tank fails the retest, or if you decide not to retest, the following must now be done:

1. All product must be immediately removed from the tank.
2. The tank itself must be removed within thirty days. A Petroleum Bulk Storage form must be submitted to this Department prior to tank removal.
3. The interior surface of the tank must be cleaned, and all sludge and residue generated by this process must be properly disposed. The tank must be cut open to allow for this work and to ensure proper ventilation of the tank interior.
4. All safety precautions regarding the opening, cleaning and entering of the tank must be followed. The interior atmosphere of the tank may be explosive and proper procedures must be followed.
5. Once the tank has been cleaned out, it may be disposed as scrap.

Mr._____ must be notified when you have a firm date for retesting or removal. Please note, we must be present when this tank is removed to determine if any groundwater or soil contamination exists. If groundwater or soil contamination is found, further remedial work will be required.

If you have any questions, please contact_____ at 847-4590. Your cooperation will be appreciated.

Sincerely,

[ ]

Exhibit 1.1-9

Sample Option Letter:
Retest Failure, Tank Removal

[Date]

[Addressee]
[Address]

Dear [ ]:

On_____, a _____gallon _____, underground store storage tank at the
(day) (date) (year) (#) (material)
above-mentioned address failed a system tank test. On_____, this tank failed an isolation tank test.
(day) (date) (year)

Since the tank failed the retest, the following must now be done:

1. All product must be immediately removed from the tank.

2. The tank itself must be removed within thirty days. A Petroleum Bulk Storage form (enclosed) must be submitted to this Department prior to tank removal.

3. The interior surface of the tank must be cleaned, and all sludge and residue generated by this process must be properly disposed. The tank must be cut open to allow for this work and to ensure proper ventilation of the tank interior.

4. All safety precautions regarding the opening, cleaning and entering of the tank must be followed. The interior atmosphere of the tank may be explosive and proper procedures must be followed.

5. Once the tank has been cleaned out, it may be disposed as scrap.

_____of this Department must be notified when you have a firm
(Name)
date for removal. We must be present when this tank is removed to determine if any groundwater or soil contamination exists. If groundwater or soil contamination is found, further remedial work will be required.

For your use, enclosed is a list of contractors that are known by this Department to do this type of work. This list is by no means complete. Any contractor may be used by you for this work.

If you have any questions, please feel free to call _____at 847-4590.
(Name)
Your cooperation will be appreciated.

Sincerely,

[ ]

Exhibit 1.1-10

Sample Option Letter:
Failed Tank Test

[Date]

CERTIFIED - RETURN RECEIPT REQUESTED

[Addressee]
[Address]

RE: Spill No.

Gentlemen:

This office has been informed by (Name) that (tank) failed a Petrotite systems test. In accordance with Article 12 of the New York State Navigation Law, I must determine if there has been any harm to the lands or the groundwater of the State. In order for me to make this determination, you have three options:

1. Prove that it was not a leaking tank by removing all the piping from the tank and separately Petrotite test the tank. If the tank passes the Petrotite test, it is a piping leak. The tank may then be abandoned or the piping can be repaired, attached to the tank, and the system Petrotite tested.

2. Excavate and remove the tank in the presence of a representative from this office so that an inspection of the tank and the soil can be made. If the tank is sound, and there is no evidence of product loss, nothing further need be done. If there is a problem, proceed as in 3 below.

3. Abandon the tank in-place and install several four (4) inch diameter PVC site wells extending five (5) feet into the groundwater with a screen length of ten (10) feet, with slot size of .020 inches. The exact location and number of wells will be determined by a representative from this office. These wells will be checked for a period of twelve months by New York State, and if there is no evidence of product for that period, the spill will be removed from our listing. If free or dissolved product appears, cleanup must begin immediately.

If cleanup does not begin by (Date) by the responsible party, the State will begin the cleanup and bill the responsible party.

Sincerely,

[ ]

Exhibit 1.1-11

Sample Option Letter:
Ground-water Cleanup

[Date]

[Addressee]
[Address]

Dear [ ]:

This letter is to confirm your (site meeting) (telephone conversation) with (Name) of this Department on (day) (date) (year) . Groundwater at this spill site is contaminated with (free floating oil) (dissolved oil components). The following items were discussed and agreed upon:

1. (#) additional four-inch monitoring wells will be installed at the agreed upon locations. A sketch of a typical monitoring well is enclosed for your use.

2. One recovery well will be installed to recover oil product. Groundwater must be pumped to depress the groundwater table. The groundwater must be pumped to an oil-water separator tank. Accumulated oil may be recovered from the well by bailing or by a second pump. A second type of recovery well pumps both oil and water to a separator tank. Oil from the tank is then recovered. You should check with your contractor to determine the best method for the recovery well. Groundwater must be pumped to depress the groundwater table.

3. The discharge water must be sampled for (Contaminates) . Dependent upon the sampling results, it may be discharged with a SPDES permit to (Name) . The water must at all times be sheenless. An air stripper or a carbon filter may be necessary for the discharge water.

4. All collected oil must be properly disposed. Copies of receipts indicating the disposal site must be forwarded to this office.

It was also agreed that these actions be completed by (Date) . Should you have any questions, please do not hesitate to contact (Name) at 847-4590. Your cooperation will be appreciated.

Sincerely,

[ ]

Exhibit 1.1-12

Sample Option Letter:
Soil Disposal, Soil Still On Site

[Date]

[Addressee]
[Address]

Dear [ ]:

A recent inspection by (Name) of this office indicated that the contaminated soil at your facility still remains on site. We are requesting this oil be removed by (day) (date) (year) to an acceptable landfill. Please send a copy of the disposal receipt to this office.

If you cannot remove the soil by that date, please contact this office immediately. If you do not contact this office and the soil still remains on site past (Date) , DEC will have the soil removed from your site. You will then be billed for the costs of removal and disposal as well any relevant penalties.

If you have any questions, please feel free to contact (Name) at 847-4590. Your cooperation will be appreciated.

Very truly yours,

Senior Sanitary Engineer

NOTES

If all efforts to encourage a PRP/RP to continue the cleanup fail, send a certified letter (Exhibit 1.1-13) notifying them that their actions have been unsatisfactory and that DEC will assume responsibility for the cleanup. This letter again informs the PRP/RP of his or her liability for all costs incurred by DEC during its cleanup.

Exhibit 1.1-13

Unsatisfactory Cleanup Notice Letter

[Date]

CERTIFIED MAIL SPILL #

[Addressee]
[Address]

Dear Sir:

My letter of (Date) notified you of New York State's interest in a pollution incident for which you are presently considered responsible.

You are hereby given notice that your actions to remove the pollutant and mitigate its effects have been evaluated as unsatisfactory. Effective (Date), the New York State Department of Environmental Conservation will conduct all cleanup activities under the authority of Article 12 of the Navigation Law. Removal will be effected in accordance with the regulations of the Department of Environmental Conservation. You will be billed for all actual costs incurred by New York State as set forth in Section 181 of the Navigation Law, as well as interest and penalties.

Should you require further information concerning this matter, contact: (Name)
.

Sincerely,

[ ]

Received and Acknowledged

_____ _____ _____
Time Date

TECHNICAL

FIELD GUIDANCE

SPILL REPORTING AND INITIAL NOTIFICATIONS - ACCESS AND RIGHT-OF-ENTRY

NOTES

Spill Reporting and Initial Notifications - Access and Right-of-Entry

GUIDANCE SUMMARY AT-A-GLANCE

Section 178 of the Navigation Law gives you the authority to enter private property to investigate or clean up a suspected spill.

In general, you should inform the property owner of your right to enter onto private property and obtain consent from the owner. This consent can be either written or verbal.

Detailed information and procedures for access and right-of-entry is considered confidential for spill responders. This information is contained in Appendix L, and is marked confidential.

NOTES

1.1.3 Access and Right-of-Entry

This section addresses the right of NYSDEC personnel to enter private property on which a spill has occurred or is suspected, for the purpose of investigating, containing, and/or cleaning up the spill. Detailed information and procedures of access and right-of-entry are considered confidential. Therefore, this information can be found in Appendix L, including your legal rights to enter property and the procedures to follow to ensure that no charges of trespassing are brought against the Department.

1. State Law and Policy

You have the authority, under the Navigation Law, to enter property to investigate or clean up a real or suspected spill. Specifically, Section 178 of the Navigation Law states:

> *The department is hereby authorized to enter and inspect any property or premises for the purpose of inspecting facilities and investigating either actual or suspected sources of discharges or violation of this article or any rule or regulations promulgated pursuant to this article. The department is further authorized to enter on property or premises in order to assist in the cleanup or removal of the discharge. Any information relating to secret processes or methods of manufacture shall be kept confidential.*

In any emergency or non-emergency, you must possess information supporting a reasonable belief to suspect that a spill has occurred or is occurring, or that the spill is impacting the premises for which access is sought. A reasonable belief may be based on a report of a spill or visual observation. For example, if a gasoline station operator reports an unexpected loss of product from his underground storage tanks that are located near private household wells, you might want to investigate those wells and check the water.

Although you have the authority to enter the premises, *it is always advisable to obtain the consent of the property owner or his or her agent before entering the property.* This consent can be either written or verbal. Obtaining this consent may help avoid civil or criminal charges for trespass being logged. In cases where the owner/agent is not available or not ascertainable, entry should be made.

Attachment G: Stormwater Calculations and Plans



Project:	Southtowns Treatment Plant Expansion	By:	kmg
No:	122202	Checked:	amh
Location:	Hamburg, Erie County	Date:	8/8/2023
		Sheet:	1 of 9

JMDavidson Engineering, D.P.C.

Project Area Summary

Section	Existing IA (sf)	Proposed IA (sf)
Ex. Front Parking	89942	
Ex. Back Drive & Parking	96063	
Mill/Fill/ Utility Impact Only	-21708	
P1 Roads/Parking		51041
P1 Sidewalks		6274
P1 Buildings / Pads		7355
P2 Buildings		18776
P2 Sidewalks/Concrete		22568
Ring Road and P2 Roads		103072

Total Impervious Area (IA):	164297	sf	209086	sf
Total Impervious Area (IA):	3.772	ac	4.800	ac
Reduction in IA:	0.000	ac	0.0	RED, %
New Development IA (NA):	1.028	ac	0.21	N, Ratio
Redeveloped IA (RA):	3.772	ac	0.79	R, Ratio
Estimated Disturbed Area (DA):	15.6	ac		
IC = ((NA + RA) / DA) X 100	30.8	%		
Rv = 0.05 + 0.009 x IC	0.33			
Rainfall, P:	1.0	in		

Water Quality Volume Required Based on New Development:

$WQv_{(initial)}$ = P x Rv x DA / 12	0.425	ac-ft	18506	cf

Project:	Southtowns Treatment Plant Expansion	By:	kmg
No:	122202	Checked:	amh
Location:	Hamburg, Erie County	Date:	8/8/2023
		Sheet:	2 of 9

JMDavidson Engineering, D.P.C.

Redevelopment Project Treatment Summary

$WQv_{(initial)}$: 0.425 ac-ft 18506 cf

Water Quality Volume Required Based on Redevelopment Activities using Standard Practices:

$WQv_{(target)} = (N + 0.25R) \times P \times Rv \times DA / 12$

$WQv_{(target)}$: **0.174** ac-ft **7600** cf

Minimum Runoff Reduction Volume (RRv) Required for New Development Activities:

Min RRv = P x Rv x S x Aic / 12*

HSG: D S **0.2**

New Impervious Area (Aic): 1.028 ac $\overline{Rv^*}$ **0.95**

Min RRv: **0.016** ac-ft **709** cf

Treatment Practice Summary

Facility	RRv (ac-ft)	WQv (ac-ft)
Reduction in Impervious Area	**0.000**	**0.000**
BIO - 1	0.010	0.016
BIO - 2	0.015	0.022
BIO - 3	0.007	0.010
BIO - 4	0.014	0.020
BIO - 5	0.017	0.026
INTR-1	0.006	0.009
INTR-2	0.006	0.008
Total	**0.074**	**0.111**
Remaining Required	**0.000**	**0.000**
Total WQv Provided	**0.185**	

Project:	Southtowns Treatment Plant Expansion	By:	kmg
No:	122202	Checked:	amh
Location:	Hamburg, Erie County	Date:	8/8/2023
		Sheet:	3 of 9

JMDavidson Engineering, D.P.C.

TITLE: **WATER QUALITY STORAGE VOLUME - BIORETENTION**

DESCRIPTION: **ID:** BIO - 1

Visitor parking island.

Formula for calculating the Water Quality storage volume (WQv) = $\frac{(P)\ (Rv)\ (DA)}{12}$

DA (ac)	%IA %	Rv	P (in)	WQv (ac-ft)	WQv (cf)
0.46	70%	0.68	1.00	0.026	1133

Pre-treatment

Filter Strip Provided?	Yes
Length, ft	10

Soil Parameters

HSG	D	
Infiltration Rate		in/hr
Underdrains?	Y	

Design Parameters

Depth of Media, ft	2.0	Area Provided, sf	1277
Permeability, k	0.5	WQv Treated, cf	1596
Ponding Depth, ft	0.5		
Drain Time, days	2		
Filter Bed Area, Req'd, sf	906		

Treatment Summary

WQv Req'd:	1133	cf		
WQv Provided:	1596	cf		
WQv Credited:	1133			
RRv %	40%			
RRv Applied:	453	cf	0.010	ac-ft
WQv Applied:	680	cf	0.016	ac-ft

Project:	Southtowns Treatment Plant Expansion	By:	kmg
No:	122202	Checked:	amh
Location:	Hamburg, Erie County	Date:	8/8/2023
		Sheet:	4 of 9

JMDavidson Engineering, D.P.C.

TITLE: **WATER QUALITY STORAGE VOLUME - BIORETENTION**

DESCRIPTION: Long parking lot

ID: BIO - 2

Formula for calculating the Water Quality storage volume (WQv) = $\frac{(P)\ (Rv)\ (DA)}{12}$

DA (ac)	%IA %	Rv	P (in)	WQv (ac-ft)	WQv (cf)
0.67	67%	0.65	1.00	0.037	1596

Pre-treatment

Filter Strip Provided?	Yes
Length, ft	10

Soil Parameters

HSG	D	
Infiltration Rate		in/hr
Undradrains?	Y	

Design Parameters

Depth of Media, ft	3	Area Provided, sf	1500
Permeability, k	0.5	WQv Treated, cf	1750
Ponding Depth, ft	0.5		
Drain Time, days	2		
Filter Bed Area, Req'd, sf	1368		

Treatment Summary

WQv Req'd:	1596	cf		
WQv Provided:	1750	cf		
WQv Credited:	1596			
RRv %	40%			
RRv Applied:	638	cf	0.015	ac-ft
WQv Applied:	958	cf	0.022	ac-ft

Project: Southtowns Treatment Plant Expansion
No: 122202
Location: Hamburg, Erie County

By: kmg
Checked: amh
Date: 8/8/2023
Sheet: 5 of 9

JMDavidson Engineering, D.P.C.

TITLE: **WATER QUALITY STORAGE VOLUME - BIORETENTION**

DESCRIPTION: **ID:** BIO - 3

Median next to new tank.

Formula for calculating the Water Quality storage volume (WQv) = $\frac{(P)\ (Rv)\ (DA)}{12}$

DA (ac)	%IA %	Rv	P (in)	WQv (ac-ft)	WQv (cf)
0.37	54%	0.54	1.00	0.017	726

Pre-treatment

Filter Strip Provided?	Yes		
Length, ft	5		
Forebay?			
Vol., cf		% of Tot.	0%

Soil Parameters

HSG	D	
Infiltration Rate		in/hr
Undradrains?	Y	

Design Parameters

Depth of Media, ft	2	Area Provided, sf	1140
Permeability, k	0.5	WQv Treated, cf	1425
Ponding Depth, ft	0.5		
Drain Time, days	2		
Filter Bed Area, Req'd, sf	580		

Treatment Summary

WQv Req'd:	726	cf		
WQv Provided:	1425	cf		
WQv Credited:	726			
RRv %	40%			
RRv Applied:	290	cf	0.007	ac-ft
WQv Applied:	435	cf	0.010	ac-ft

Project: Southtowns Treatment Plant Expansion
No: 122202
Location: Hamburg, Erie County

By: crg
Checked: kmg
Date: 10/22/2024
Sheet: 6 of 9

JMDavidson Engineering, D.P.C.

TITLE: **WATER QUALITY STORAGE VOLUME - BIORETENTION**

DESCRIPTION: DA to DI-06 and DA to DI-07

ID: BIO - 4

Formula for calculating the Water Quality storage volume (WQv) = $\frac{(P)\ (Rv)\ (DA)}{12}$

DA (ac)	%IA %	Rv	P (in)	WQv (ac-ft)	WQv (cf)
1.13	35%	0.36	1.00	0.034	1479

Pre-treatment

Filter Strip Provided?	Yes		
Length, ft	5		
Forebay?			
Vol., cf		% of Tot.	0%

Soil Parameters

HSG	D	
Infiltration Rate	0.1	in/hr
Undradrains?	Y	

Design Parameters

Depth of Media, ft	2.5	Area Provided, sf	1812
Permeability, k	0.5	WQv Treated, cf	2174
Ponding Depth, ft	0.5		
Drain Time, days	2		
Filter Bed Area, Req'd, sf	1233		

Treatment Summary

WQv Req'd:	1479	cf		
WQv Provided:	2174	cf		
WQv Credited:	1479			
RRv %	40%			
RRv Applied:	592	cf	0.014	ac-ft
WQv Applied:	888	cf	0.020	ac-ft

Project: Southtowns Treatment Plant Expansion
No: 122202
Location: Hamburg, Erie County

By: crg
Checked: kmg
Date: 10/22/2024
Sheet: 6 of 9

JMDavidson Engineering, D.P.C.

TITLE: **WATER QUALITY STORAGE VOLUME - BIORETENTION**

DESCRIPTION: DA to PR DI 05

ID: BIO - 5

Formula for calculating the Water Quality storage volume (WQv) = $\frac{(P)\ (Rv)\ (DA)}{12}$

DA (ac)	%IA %	Rv	P (in)	WQv (ac-ft)	WQv (cf)
1.91	25%	0.28	1.00	0.044	1907

Pre-treatment

Filter Strip Provided?	Yes		
Length, ft	10		
Forebay?			
Vol., cf		% of Tot.	0%

Soil Parameters

HSG	D	
Infiltration Rate	0.1	in/hr
Undradrains?	Y	

Design Parameters

Depth of Media, ft	2.5	Area Provided, sf	1550
Permeability, k	0.5	WQv Treated, cf	1860
Ponding Depth, ft	0.5		
Drain Time, days	2		
Filter Bed Area, Req'd, sf	1589		

Treatment Summary

WQv Req'd:	1907	cf		
WQv Provided:	1860	cf		
WQv Credited:	1860			
RRv %	40%			
RRv Applied:	744	cf	0.017	ac-ft
WQv Applied:	1116	cf	0.026	ac-ft

Project: Southtowns Treatment Plant Expansion
No: 122202
Location: Hamburg, Erie County

By: kmg
Checked: amh
Date: 8/8/2023
Sheet: 8 of 9

JMDavidson Engineering, D.P.C.

TITLE: **WATER QUALITY STORAGE VOLUME - DRY SWALE**

DESCRIPTION: Infiltration Trench ORF North

ID: INTR-1

Formula for calculating the Water Quality storage volume (WQv) = $\frac{(P)\ (Rv)\ (A)}{12}$

DA (ac)	%IA %	Rv	P (in)	WQv (ac-ft)	WQv (cf)
0.69	24%	0.27	1	0.015	665

Pretreatment - Filter Strip

Parameter	Imp. Parking Lots/Roads				Residential Lots			
Max. Inflow Approach Length (ft)	35		75		75		150	
Grass Filter Strip Slope	<=2%	2-8%	<=2%	2-8%	<=2%	2-8%	<=2%	2-8%
Min. Grass Filter Strip Length (ft)	10	15	20	25	10	12	15	18

Design Parameters

Porosity (assume 0.4)	0.4	Width Provided, ft	4	
Design Depth, ft	3	Length Provided, ft	140	
Req'd Surface Area, sf	553.8	Area Provided, sf	560	OKAY

Treatment Volumes

WQv Req'd:	665	cf		
WQv Provided:	672	cf		
RRv %	40%			
RRv Applied:	269	cf	0.006	ac-ft
WQv Applied:	396	cf	0.009	ac-ft

Project: Southtowns Treatment Plant Expansion
No: 122202
Location: Hamburg, Erie County

By: kmg
Checked: amh
Date: 8/8/2023
Sheet: 9 of 9

JMDavidson Engineering, D.P.C.

TITLE: **WATER QUALITY STORAGE VOLUME - DRY SWALE**

DESCRIPTION: Infiltration Trench ORF South

ID: INTR-2

Formula for calculating the Water Quality storage volume (WQv) = $\frac{(P)\ (Rv)\ (A)}{12}$

DA (ac)	%IA %	Rv	P (in)	WQv (ac-ft)	WQv (cf)
0.64	23%	0.26	1	0.014	601

Pretreatment - Filter Strip

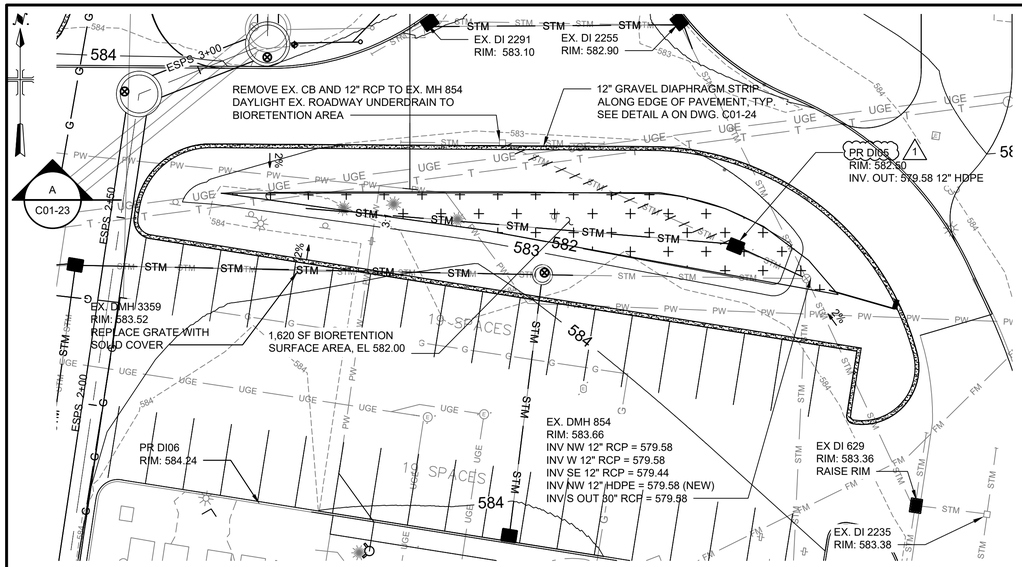
Parameter	Imp. Parking Lots/Roads				Residential Lots			
Max. Inflow Approach Length (ft)	35		75		75		150	
Grass Filter Strip Slope	<=2%	2-8%	<=2%	2-8%	<=2%	2-8%	<=2%	2-8%
Min. Grass Filter Strip Length (ft)	10	15	20	25	10	12	15	18

Design Parameters

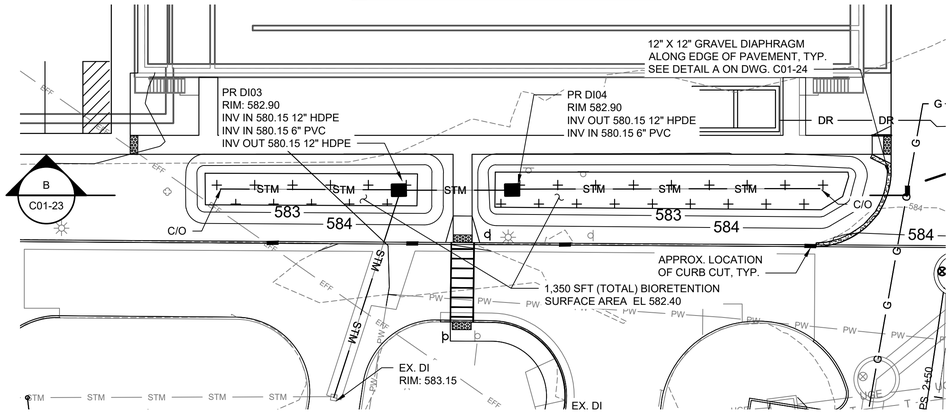
Porosity (assume 0.4)	0.4	Width Provided, ft	4	
Design Depth, ft	3	Length Provided, ft	130	
Req'd Surface Area, sf	500.4	Area Provided, sf	520	OKAY

Treatment Volumes

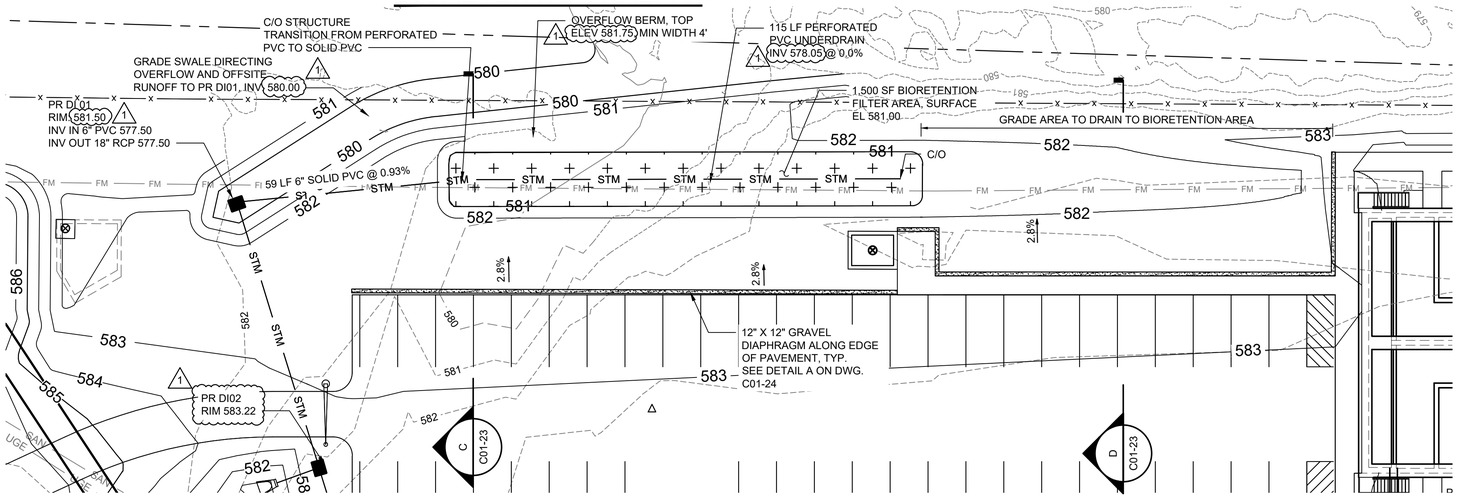
WQv Req'd:	601	cf		
WQv Provided:	624	cf		
RRv %	40%			
RRv Applied:	250	cf	0.006	ac-ft
WQv Applied:	351	cf	0.008	ac-ft



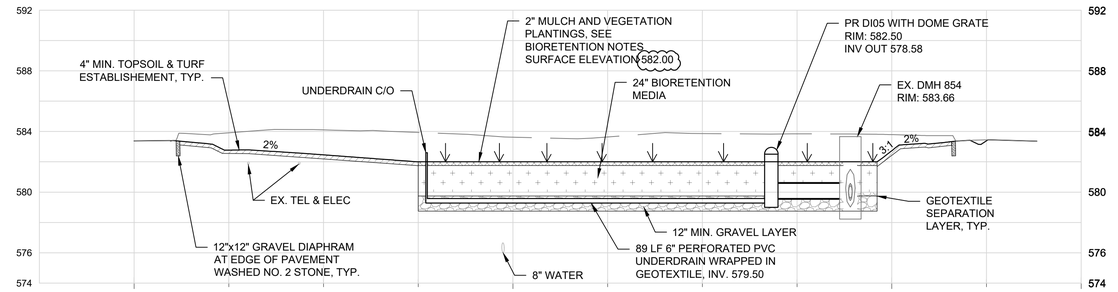
BIORETENTION AREA 1



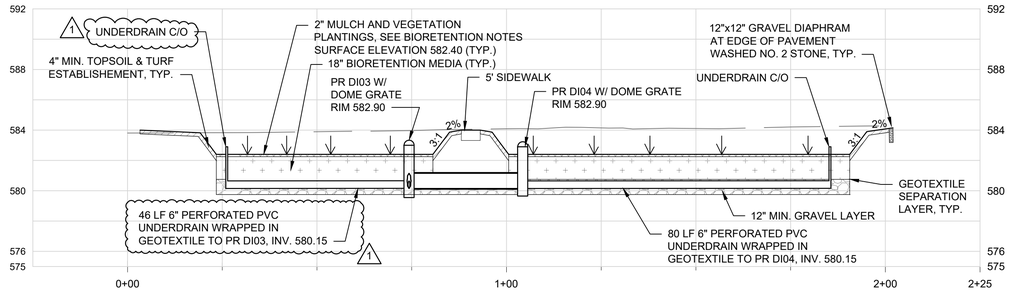
BIORETENTION AREA 3



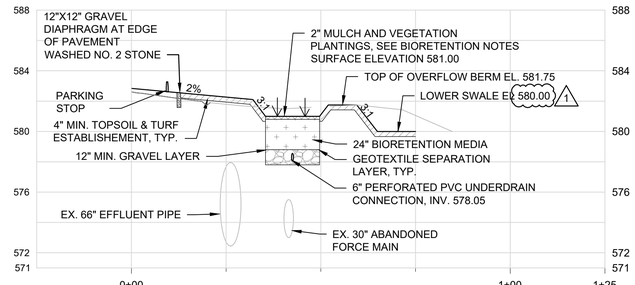
BIORETENTION AREA 2



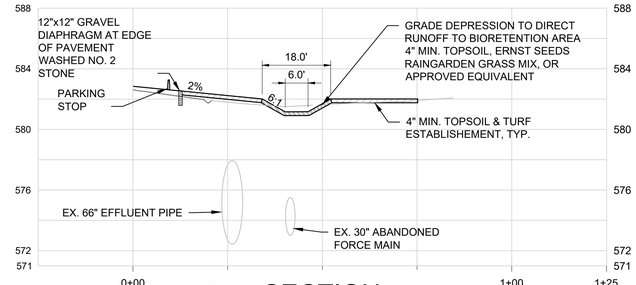
A SECTION
C01-23



B SECTION
C01-23



C SECTION
C01-23



D SECTION
C01-23

HORIZONTAL 1"=20' (20 0 20)

VERTICAL 1"=5' (5 0 5)

ADDENDUM 75.2 - 148

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 1 EXPANSION

CONTRACT NO. 74C

REVISIONS

NO.	DATE	ISSUED FOR	BY
1	8/27/25	FIELD ORDER 74C-019	MAT

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2023

PROJECT STATUS: BID READY

PROJECT NO.: 30114371
DATE: AUGUST 2023
DESIGNED BY: K. GREER
DRAWN BY: K. GREER
CHECKED BY: M. TERRANA

SHEET TITLE

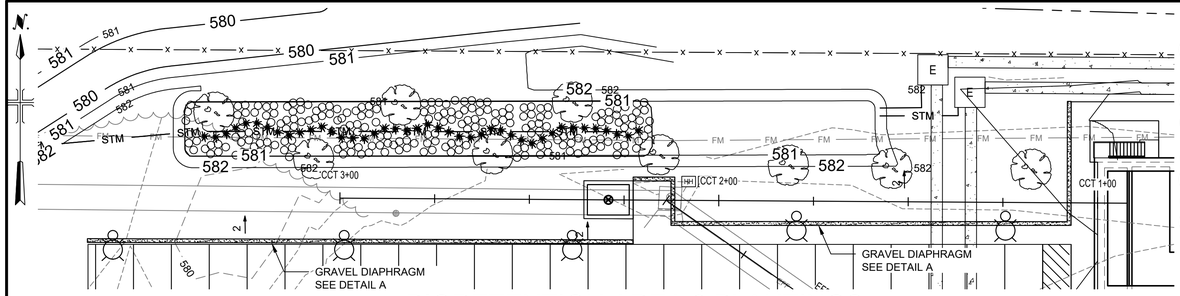
CIVIL

STORMWATER
PARTIAL PLAN - I

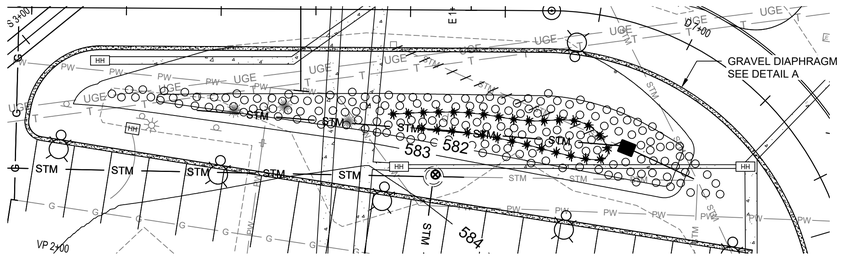
SCALE: 1" = 20'
0 BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-23
SHEET NO.: 40 OF 257

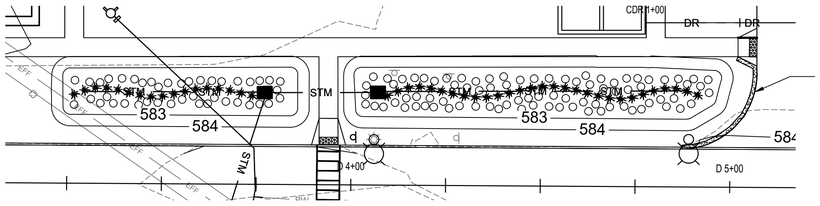
User:MICHAELTERRANA Spec:AUS-NCSMOD File:C:\USERS\MICHAELTERRANA\DOCACCDOCS\ARCADIS\AUS-30114371-ECDEP SOUTHTOWNS AWTF PHASE 1 AND PHASE 2 PLANT EXPANSION\PROJECT FILES\01 - WIP\01_PHASE-1\AUTOCAD\CIVIL\C01-23.DWG Scale:1:1 SavedDate:8/27/2025 Time:12:14 Plot Date: Michael Terrana: 8/27/2025: 12:15 - Layout:1



BIORETENTION AREA 2 PLANTINGS



BIORETENTION AREA 1 PLANTINGS



BIORETENTION AREA 3 PLANTINGS

BIORETENTION AREA NOTES:

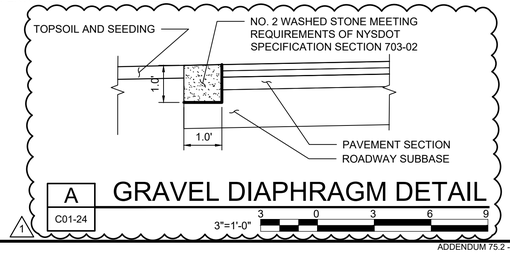
1. BIORETENTION AREAS SHALL BE CONSTRUCTED AT THE END OF THE SEQUENCE OF CONSTRUCTION TO MINIMIZE IMPACTS BY CONSTRUCTION EQUIPMENT AND SEDIMENT LADEN RUNOFF.
2. AVOID COMPACTION OF EARTH BELOW BIORETENTION AREAS AND BIORETENTION MATERIALS. BIORETENTION MEDIA AND STONE MATERIALS SHALL BE LOOSELY PLACED.
3. GEOTEXTILE SEPARATION MATERIAL SHALL BE PLACED BETWEEN EACH LAYER OF MATERIAL IN THE BIORETENTION AREA TRENCH.
4. ALL BIORETENTION UNDERDRAINS (SOLID AND PERFORATED), CLEAN OUTS (C/O), AND FITTINGS SHALL BE SCHEDULE 80 PVC.
5. BIORETENTION AREA OVERFLOW DRAINAGE INLETS (DI) SHALL HAVE DOMED COVERS, NEENAH FOUNDARY BEEHIVE GRATE #2561 OR APPROVED EQUIVALENT.
6. ALL STONE PLACED IN BIORETENTION AREAS SHALL BE CLEAN AND WASHED.
7. ALL BIORETENTION FILTER BED AREAS SHALL BE PLANTED IN ACCORDANCE WITH THE BIORETENTION PLANTING AREA SCHEDULE, THIS SHEET. PLANTS SHALL BE INSTALLED THROUGHOUT THE MEDIA AREA IN CLUSTERS OF 5 TO 6. SPECIES SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL.

BIORETENTION AREA PLANTING SCHEDULE

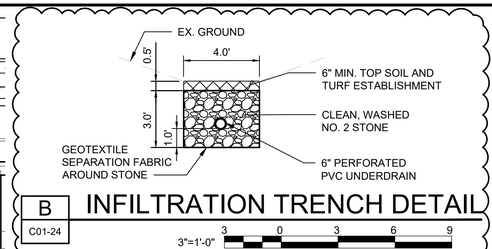
		QUANTITY		
		BIORETENTION AREA 1	BIORETENTION AREA 2	BIORETENTION AREA 3
	PLANTING AREA (SF)	1,620	1,786	1,350
COMMON NAME	BOTANICAL NAME			
CARDINAL FLOWER	LOBELIA CARDINALIS	35	32	23
BLUE FLAG IRIS	IRIS VERSICOLOR	35	41	28
STOKES ASTER	ASTER LAEVIS	35	34	28
BLACK EYED SUSAN	RUDBECKIA FULGIDA	25	27	21
PURPLE CONEFLOWER	ECHINACEA PURPUREA	25	27	14
GLORIOSA DAISY	RUDBECKIA HIRTA 'CHERRY BRANDY'	23	25	12
SWITCHGRASS	PANICUM VIRGATUM	15	21	24
PENNSYLVANIA SEDGE	CARES PENSYLVANICA	15	21	24
RED MAPLE	ACER RUBRUM	--	4	--
RIVER BIRCH	BETULA NIGRA	--	2	--
PIN OAK	QUERCUS PALUSTRIS	--	2	--
	TOTAL	208	237	174

NOTES:

1. PLANTINGS SHALL ALL BE NO 2. CONTAINERS.
2. QUANTITIES BASED ON 36 IN. ON CENTER, TRIANGULAR SPACING.
3. TREES SHALL BE MIN. 2.5" CALIPER B B.
4. SPECIES, VARIETIES, AND SIZES CAN BE ADJUSTED PER AVAILABILITY. SUBMIT REQUEST FOR APPROVAL.



GRAVEL DIAPHRAGM DETAIL



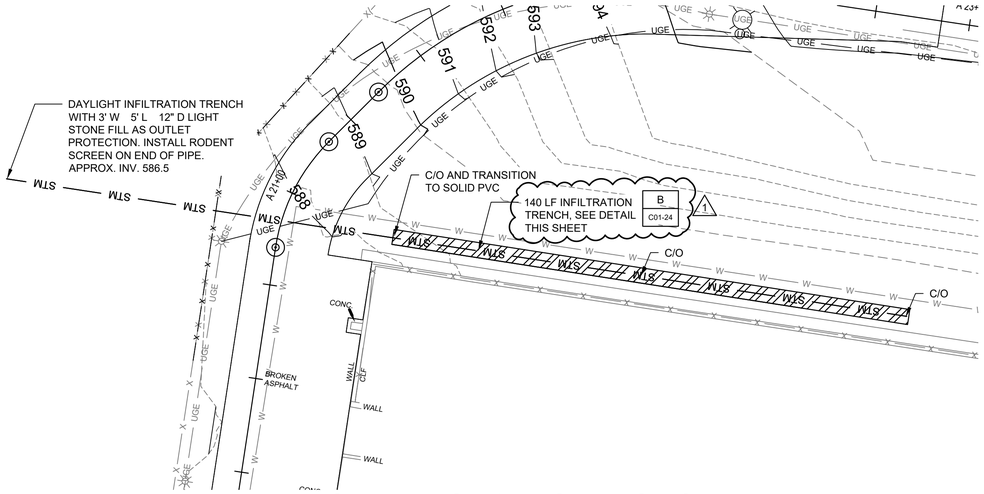
INFILTRATION TRENCH DETAIL

INFILTRATION TRENCH NOTES:

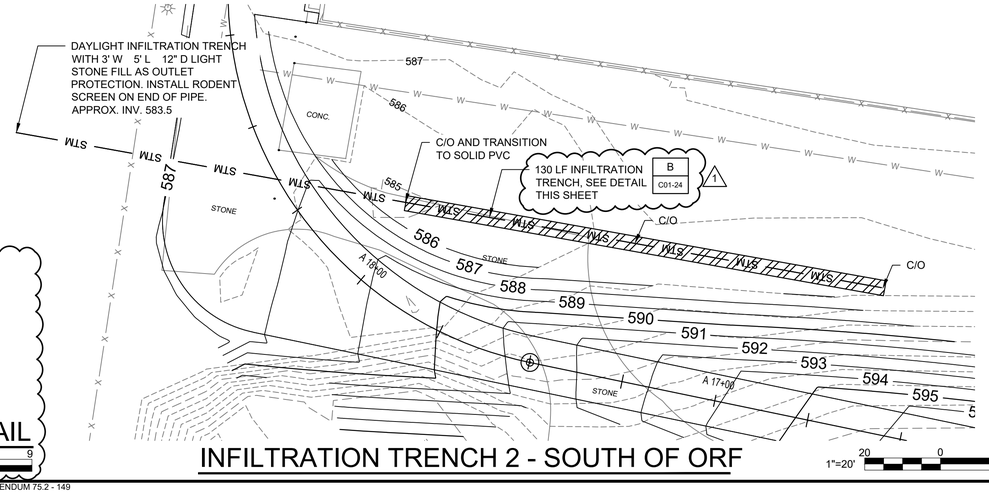
1. INFILTRATION TRENCH AREAS SHALL BE CONSTRUCTED AT THE END OF THE SEQUENCE OF CONSTRUCTION TO MINIMIZE IMPACTS BY CONSTRUCTION EQUIPMENT AND SEDIMENT LADEN RUNOFF.
2. AVOID COMPACTION OF EARTH BELOW INFILTRATION AREAS . STONE MATERIALS SHALL BE LOOSELY PLACED.
3. GEOTEXTILE SEPARATION MATERIAL SHALL BE PLACED BETWEEN EACH LAYER OF MATERIAL IN THE TRENCH.
4. ALL INFILTRATION TRENCH UNDERDRAINS (SOLID AND PERFORATED), CLEAN OUTS (C/O), AND FITTINGS SHALL BE SCHEDULE 80 PVC.
5. ALL STONE PLACED IN INFILTRATION TRENCHES SHALL BE CLEAN AND WASHED.
6. UNDERDRAINS SHALL BE 0 OR SLIGHTLY SLOPED TO DRAIN TO WEST SIDE OF ACCESS ROAD. APPROXIMATE LOCATION OF DAYLIGHTED PIPE IS SHOWN BASED ON AVAILABLE LIDAR INFORMATION; LOCATION SUBJECT TO CHANGE BASED ON ACTUAL FIELD CONDITIONS.
7. CLEAN OUTS (C/O) SHALL BE PLACED AT BOTH ENDS AND THE MIDDLE OF PERFORATED UNDERDRAIN.

INFILTRATION TRENCH TABLE

STA	STA	OFFSET	COMMENT
INFILTRATION TRENCH 1 - NORTH OF ORF	A 20+92.3	RT 167.58	UPSTREAM END OF INFILTRATION TRENCH
	A 20+92.3	RT 29.71	DOWNSTREAM END OF INFILTRATION TRENCH, TRANSITION PERFORATED PIPE TO SOLID
	A 20+92.3	Lt 73.75	APPROXIMATE UNDERDRAIN OUTLET LOCATION
INFILTRATION TRENCH 2 - SOUTH OF ORF	A 16+63.17	RT 38.20	UPSTREAM END OF INFILTRATION TRENCH
	A 18+6.1	RT 23.00	DOWNSTREAM END OF INFILTRATION TRENCH, TRANSITION PERFORATED PIPE TO SOLID
	A 18+34.6	Lt 70.13	APPROXIMATE UNDERDRAIN OUTLET LOCATION



INFILTRATION TRENCH 2 - NORTH OF ORF



INFILTRATION TRENCH 2 - SOUTH OF ORF

ARCADIS
LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson
Engineering,D.P.C.

SEALS

STATE OF NEW YORK * MICHAEL ANTHONY TERRANA * LICENSED PROFESSIONAL ENGINEER 088920
10-6-23

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 1 EXPANSION

CONTRACT NO. 74C

REVISIONS

NO.	DATE	ISSUED FOR	BY
1	10/06/23	ADDENDUM 74C.3	MAT

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2023

PROJECT STATUS: BID READY

PROJECT NO.: 30114371
DATE: AUGUST 2023
DESIGNED BY: K. GREER
DRAWN BY: K. GREER
CHECKED BY: M. TERRANA

SHEET TITLE

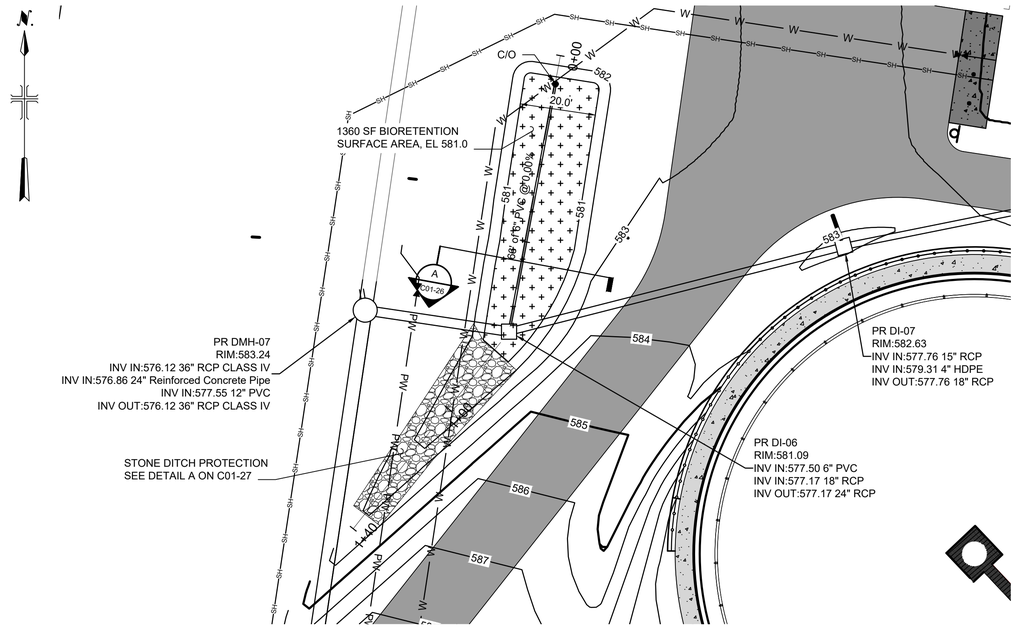
CIVIL

STORMWATER
PARTIAL PLAN - II

SCALE: 1" = 20'
BAR IS ONE INCH ON UNREDUCED DRAWING

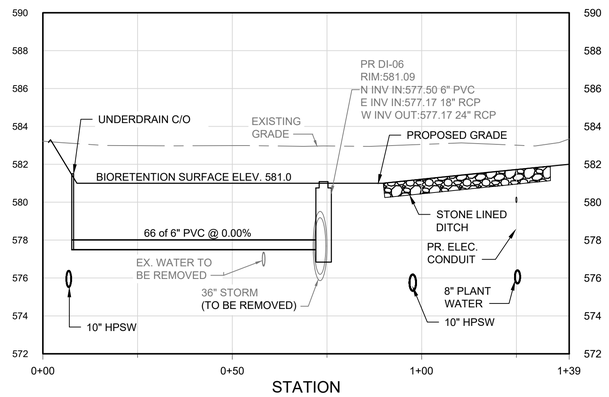
DRAWING NO.: C01-24
SHEET NO.: 41 OF 257

User:MICHAEL.TERRANA Spec:AUS-NCSMOD File:C:\USERS\MICHAEL.TERRANA\DOCACDOCS\ARCADIS-AUS-30114371-ECDEP SOUTHTOWNS AWTF PHASE 1 AND PHASE 2 PLANT EXPANSION\PROJECT FILES\01 - WIP\01_PHASE-1\AUTOCAD\CIVIL\C01-24.DWG Scale:1:1 SavedDate:9/18/2023 Time:12:02 Plot Date: Michael Terrana; 10/4/2023; 15:45 - Layout:1



BIORETENTION AREA 4 PLAN

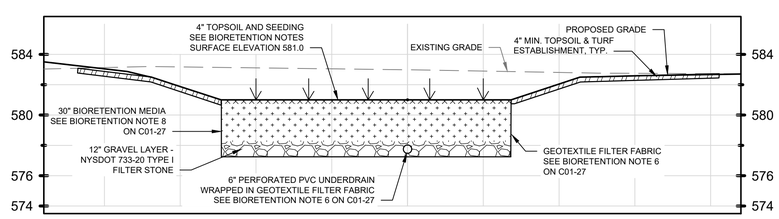
1"=20' 20 0 20



BIORETENTION AREA 4 PROFILE

HORIZ: 1"=20' 20 0 20

VERT: 1"=4' 4 0 4

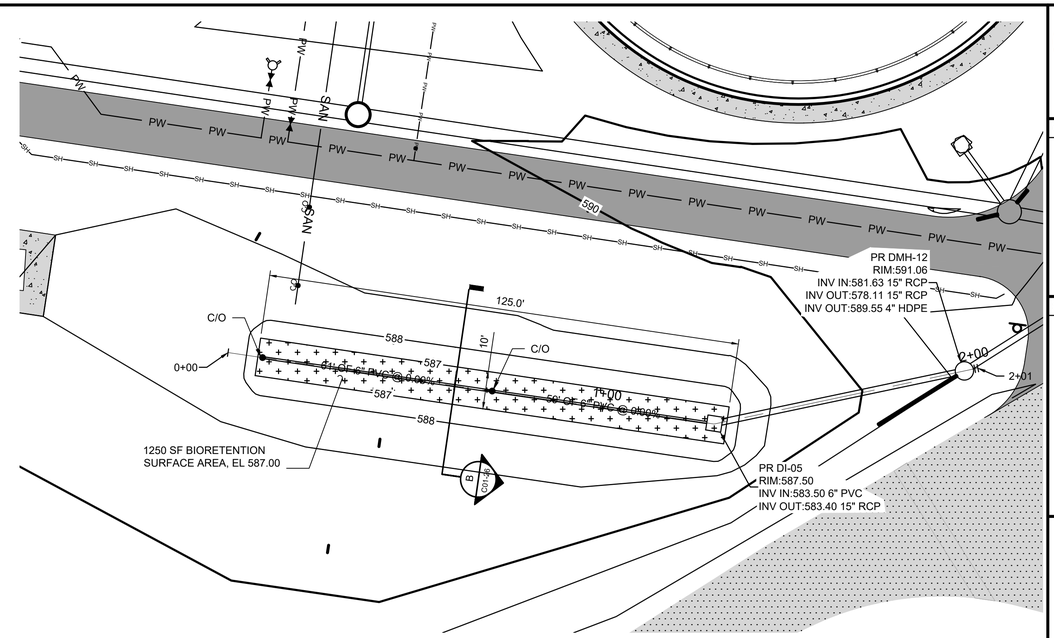


NOTE:

1. BIORETENTION AREAS 1 THRU 3 HAVE BEEN CONSTRUCTED AS PART OF A PREVIOUS PROJECT AND ARE NOT INCLUDED IN THE SCOPE OF THE PROJECT. NAMING CONVENTION OF BIORETENTION AREAS IS CONSISTENT WITH NAMES LISTED IN THE PROJECT SWPPP WHICH COVERS MULTIPLE CONTRACTS ON THE SOUTHTOWNS AWTF SITE.

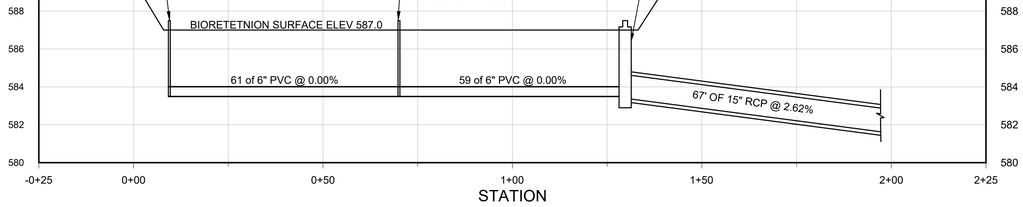
A C01-26 SECTION

1"=5' 5 0 5



BIORETENTION AREA 5 PLAN

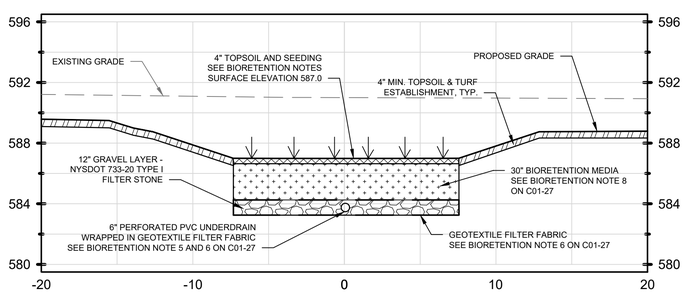
1"=20' 20 0 20



BIORETENTION AREA 5 PROFILE

HORIZ: 1"=20' 20 0 20

VERT: 1"=4' 4 0 4



B C01-26 SECTION

1"=5' 5 0 5

ADDENDUM 75.2 - 150

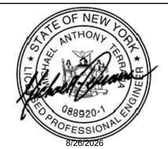
ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS



WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.: 30119430

DATE: SEPTEMBER 2026

DESIGNED BY: KMG

DRAWN BY: KMG

CHECKED BY: MAT

SHEET TITLE

CIVIL

STORMWATER MANAGEMENT AREA PARTIAL PLANS - I

SCALE: SEE PLAN

0 1 BAR IS ONE INCH ON UNREDUCED DRAWING

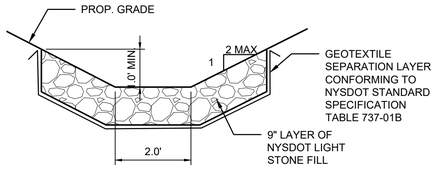
DRAWING NO.: C01-26

SHEET NO.: 46 OF

User: JESSICABEGIERS Sync:AUS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122202 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-26.DWG Scale:1:1 SavedDate:8/26/2026 Time:10:59 Plot Date: Michael Terrana: 8/9/2026: 12:28 - Layout:C01-26

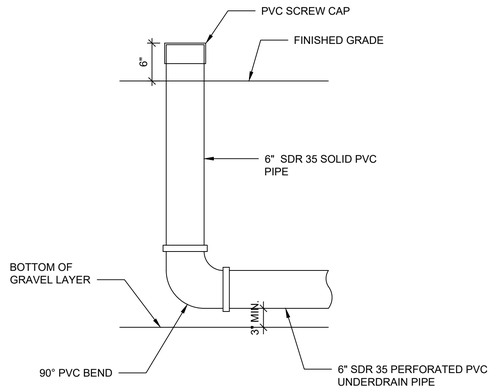
BIORETENTION AREA NOTES:

1. BIORETENTION AREAS SHALL BE CONSTRUCTED AT THE END OF THE SEQUENCE OF CONSTRUCTION TO MINIMIZE IMPACTS BY CONSTRUCTION EQUIPMENT AND SEDIMENT LADEN RUNOFF. IF AREAS DEFINED FOR BIORETENTION ARE UTILIZED AS STAGING AREAS DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR DRAINAGE STRUCTURES INSTALLED DURING EARLIER PHASES OF WORK AND/OR MAY NEED TO PROVIDE ALTERNATE TEMPORARY DRAINAGE MEASURES TO MINIMIZE IMPACTS TO STAGING AREAS DURING CONSTRUCTION DUE TO POTENTIAL RUNOFF AND/OR PONDING WITHIN THESE AREAS. BIORETENTION AREAS (INCLUDING FILTER MEDIA, STONE LAYER, UNDERDRAINS, ETC.) SHALL BE CONSTRUCTED AFTER THE STAGING AREAS ARE REMOVED AND NO LONGER NEEDED. THE NATIVE SOILS BELOW THE EXCAVATED AREA SHALL BE TILLED/SCARIFIED PRIOR TO PLACING THE BIORENTENTION MATERIALS TO INCREASE INFILTRATION.
2. BIORETENTION AREAS SHALL NOT BE UTILIZED AS SEDIMENT TRAPS. IF A SEDIMENT TRAP IS CREATED AT THE EXCAVATED AREA, ALL DEPOSITED SEDIMENT SHALL BE REMOVED AND THE NATIVE SOILS TILLED/SCARIFIED PRIOR TO PLACING BIORETENTION MATERIALS. UNDER NO CIRCUMSTANCES SHALL SEDIMENT LADEN WATER BE DIRECTED TO BIORETENTION AREAS.
3. BIORETENTION AREAS SHALL BE RINGED WITH FILTER SOCK UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED.
4. AVOID COMPACTION OF EARTH BELOW BIORETENTION AREAS AND BIORETENTION MATERIALS. BIORETENTION MEDIA AND STONE MATERIALS SHALL BE LOOSELY PLACED.
5. ALL BIORETENTION UNDERDRAINS (SOLID AND PERFORATED), CLEAN OUTS (C/O), AND FITTINGS SHALL BE SDR-35 PVC.
6. GEOTEXTILE FILTER FABRIC SHALL BE NON-WOVEN, POLYPROPYLENE GEOTEXTILE WITH FLOW RATE GREATER THAN 125 GPM/SF (ASTM D4491) AND APPARENT OPENING SIZE US #70 SIEVE (ASTM D4751). GEOTEXTILE FABRIC SHALL BE PLACED AROUND THE TOP, BOTTOM AND SIDES OF THE DRAINAGE LAYER GRAVEL MATERIAL IN THE BIORETENTION AREA TRENCH.
7. ALL STONE PLACED IN BIORETENTION AREAS SHALL BE CLEAN AND WASHED. DRAINAGE LAYER GRAVEL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 733-20 AND THE GRADATION FOR TYPE 1 UNDERDRAIN MATERIAL.
8. BIORETENTION FILTER MEDIA SHALL BE COMPOSED OF 60%-75% ASTM C-33 SAND AND 25%-40% TOPSOIL CONFORMING TO NYSDOT STANDARD SPECIFICATION 713-01 FOR ROADSIDE MIX OR SPECIALTY PLANTING MIX.
9. BIORETENTION AREAS SHALL BE SEEDED WITH ERNST SEEDS NC RETENTION BASIN SEED MIX OR APPROVED EQUIVALENT PROVIDING A MIXTURE OF WET/DRY TOLERANT GRASS SEEDS SUITABLE FOR STORMWATER MANAGEMENT AREAS AND MAINTAINING A GENERAL GRASS HEIGHT OF LESS THAN 2 FEET. SEED SHALL BE PLACED AT TWICE THE RECOMMENDED SEEDING RATE AND MULCHED WITH AN APPROVED TACKIFIER TO MINIMIZE FLOATATION DURING RAIN EVENTS.

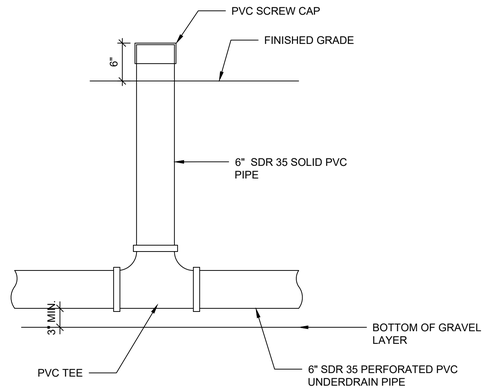


A C01-27 **STONE DITCH PROTECTION**

6"=1'-0"



END OF PIPE DETAIL



MIDDLE OF PIPE DETAIL

B C01-27 **STORMWATER MANAGEMENT UNDERDRAIN CLEAN OUT**

NOT TO SCALE

User:KRISTAGREER Spec:AUS-NCSMOD File:Y:\JMDAVIDSON PROJECTS - ACTIVE\122202 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-27.DWG Scale:1:1 Saved/Date:8/19/2026 Time:17:00 Plot Date: Michael Terrana, 9/8/2026; 12:33 ; Layout:C01-27

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · 088920-1 · LICENSED PROFESSIONAL ENGINEER
8/26/2026

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: KMG
DRAWN BY: KMG
CHECKED BY: MAT

SHEET TITLE

CIVIL

STORMWATER MANAGEMENT AREA PARTIAL PLANS - II

SCALE: SEE PLAN

0 1 BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-27

SHEET NO.: 47 OF

Attachment H: SPDES General Permit for Construction Activity GP-0-25-001



NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL
CONSERVATION (NYSDEC)

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP-0-25-001

Construction General Permit (CGP)

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

of the Environmental Conservation Law

Effective Date: January 29, 2025 Expiration Date: January 28, 2030

Scott E. Sheeley

Chief Permit Administrator

Scott E. Sheeley JAN. 29, 2025

Authorized Signature Date

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

PREFACE

Pursuant to Section 402 of the Clean Water Act (CWA), and 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), *stormwater discharges* from certain *construction activities* are unlawful unless they are authorized by a National Pollutant Discharge Elimination System (NPDES) permit or by a state permit program. New York State administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, and Article 70, as well as 6 NYCRR Parts 621 and 750.

C*onstruction activities* constitute construction of a *point source* and, therefore, pursuant to ECL sections 17-0505, 17-0701, and 17-0803, the *owner or operator* must have coverage under a SPDES permit prior to *commencement of construction activities*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

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

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES CONSTRUCTION GENERAL PERMIT (CGP) GP-0-25-001
FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

Table of Contents

Part I. How to Obtain Coverage and General Requirements 5
A. Eligibility Requirements 5
B. Types of *Discharges* Authorized 9
C. Prohibited *Discharges* 10
D. Electronic Notice of Intent (eNOI) Submittal 10
E. General Requirements for *Owners or Operators* with Permit Coverage 14
F. Permit Coverage for *Discharges* Authorized Under GP-0-20-001 18
G. Change of *Owner or Operator* 19
Part II. Water Quality-Based Effluent Limitations 20
A. Maintaining Water Quality 20
B. Effluent Limitations Applicable to *Discharges* from *Construction Activities* 20
C. Post-Construction Stormwater Management Practice (SMP) Requirements 23
Part III. Stormwater Pollution Prevention Plan (SWPPP) 28
A. General *SWPPP* Requirements 28
B. Required *SWPPP* Contents 32
C. Required *SWPPP* Components by Project Type 37
Part IV. Inspection and Maintenance Requirements 37
A. General Construction Site Inspection and Maintenance Requirements 37
B. Contractor Maintenance Inspection Requirements 37
C. *Qualified Inspector* Inspection Requirements 38
Part V. How to Terminate CGP Coverage 43
A. Electronic Notice of Termination (eNOT) Submittal 43
Part VI. Record Retention and Reporting 45
A. Record Retention 46
B. Reporting 46
Part VII. Standard Permit Requirements 46
A. Duty to Comply 46
B. Need to Halt or Reduce Activity Not a Defense 46
C. Penalties 46
D. False Statements 47
E. Re-Opener Clause 47
F. Duty to Mitigate 47
G. Requiring Another General Permit or Individual SPDES Permit 47
H. Duty to Provide Information 49
I. Extension 49
J. Signatories and Certification 50
K. Inspection and Entry 52
L. Confidentiality of Information 53
M. Other Permits May Be Required 53

N. NYSDEC Orders or Civil Decrees/Judgments 53
O. Property Rights 53
P. Compliance with Interstate Standards 53
Q. Oil and Hazardous Substance Liability 54
R. Severability 54
S. NYSDEC Approved Forms 54
APPENDIX A – Abbreviations and Definitions 55
Abbreviations 55
Definitions 56
APPENDIX B – Required SWPPP Components by Project Type 64
Table 1 64
Table 2 66
APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal 68
APPENDIX D – Impaired Waterbodies (by Construction Related Pollutants) 74
APPENDIX E – List of NYSDEC Regional Offices 80
APPENDIX F – SWPPP Preparer Certification Form 81
APPENDIX G – MS4 SWPPP Acceptance Form 83
APPENDIX H – NYCDEP SWPPP Acceptance/Approval Form 86
APPENDIX I – MS4 No Jurisdiction Form 89
APPENDIX J – Owner/Operator Certification Form 91

Part I. How to Obtain Coverage and General Requirements

To be covered under this permit, the *owner or operator* must meet all eligibility requirements in Part I.A. and follow the requirements for obtaining permit coverage in Part I.D., F., or G.

A. Eligibility Requirements

For a *common plan of development or sale*, the *phase(s)* that meet the eligibility requirements in Part I.A. may obtain coverage under this permit even if other *phase(s)* of the same *common plan of development or sale* do not meet the eligibility requirements and require an individual SPDES permit.

1. The *owner's or operator's construction activities* involve soil disturbances of:

    a. one or more acres; or

    b. less than one acre which are part of a *common plan of development or sale* that will ultimately disturb one or more acres; or

    c. less than one acre where NYSDEC has determined that a SPDES permit is required for *stormwater discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of pollutants to *surface waters of the State*.

        i. 5,000 square feet or more, but less than one acre, and are in the New York City Watershed located east of the Hudson River, Appendix C Figure 1; or

        ii. 20,000 square feet or more, but less than one acre, within the municipal boundaries of the City of New York (NYC); or

        iii. less than 20,000 square feet which are part of a *common plan of development or sale* that will ultimately disturb 20,000 square feet or more, but less than one acre, within the municipal boundaries of NYC; or

        iv. that creates 5,000 square feet or more of *impervious area* within the municipal boundaries of NYC.

2. *Discharges* from the *owner's or operator's construction activities* are/were not:

    a. already covered by a different SPDES permit; or

    b. covered under a different SPDES permit that was denied, terminated, or revoked; or

    c. identified in an expired individual SPDES permit that was not renewed; or

    d. required to obtain an individual SPDES permit or another general SPDES permit in accordance with Part VII.K.

3. If *construction activities* may adversely affect a species that is endangered or threatened, the *owner or operator* must obtain a:

    a. permit issued pursuant to 6 NYCRR Part 182 for the project; or

    b. letter issued by NYSDEC of non-jurisdiction pursuant to 6 NYCRR Part 182 for the project.

4. If *construction activities* have the potential to affect an *historic property*, the *owner or operator* must obtain one of the following:

    a. documentation that the *construction activity* is not within an archeological buffer area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant:

        i. 1-5 acres of disturbance - 20 feet; or

        ii. 5-20 acres of disturbance - 50 feet; or

iii. 20+ acres of disturbance - 100 feet.

b. NYSDEC consultation form sent to OPRHP,[1] and copied to NYSDEC's Agency Historic Preservation Officer (APO), and

i. the State Environmental Quality Review Act (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or

ii. documentation from OPRHP that the *construction activity* will result in No Impact; or

iii. documentation from OPRHP providing a determination of No Adverse Impact; or

iv. a Letter of Resolution signed by the *owner or operator*, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA).

c. documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

i. No Affect; or

ii. No Adverse Affect; or

iii. Executed Memorandum of Agreement.

d. documentation that SHPA Section 14.09 has been completed by NYSDEC or another state agency.

5. If *construction activities* are subject to SEQR, the *owner or operator* must obtain documentation that SEQR has been satisfied.

6. If *construction activities* are not subject to SEQR, but subject to the equivalent environmental review from another New York State or federal agency, the

[1] The consultation form can be submitted, along with other project information, through OPRHP's Cultural Resource Information System (CRIS) portal. If submitted through CRIS, paper copies of the consultation form need not be mailed.

owner or operator must obtain documentation that project review, pursuant to a process equivalent to SEQR from another New York State or federal agency, has been satisfied.

7. If *construction activities* require Uniform Procedures Act (UPA) Permits (see 6 NYCRR Part 621) from NYSDEC, or the equivalent from another New York State or federal agency, the *owner or operator* must:

    a. obtain all such necessary permits; or

    b. receive notification from NYSDEC pursuant to 6 NYCRR 621.3(a)(4) excepting Part I.A.7.a.

8. *Construction activities* are not eligible if they meet the following criteria in Part I.A.8.a. or b.:

    a. For linear transportation and linear utility project types, the *construction activities*:

        i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

        ii. are undertaken on land with no existing *impervious cover*; and

        iii. disturb two or more acres of *steep slope*.

    b. For all other project types, the *construction activities*:

        i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

        ii. are undertaken on land with no existing *impervious cover*; and

        iii. disturb one or more acres of *steep slope*.

B. Types of *Discharges* Authorized

1. The following *stormwater discharges* are authorized under this permit:

   a. *Stormwater discharges*, including *stormwater* runoff, snowmelt runoff, and surface runoff and drainage, associated with *construction activity*, are authorized under this permit provided that appropriate *stormwater* controls are designed, installed, and maintained in accordance with Part II. and Part III.

   b. *Stormwater discharges* from construction support activities at the *construction site* (including concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, and borrow areas) if the following requirements are met:

      i. The support activity is directly related to the *construction site* required to have permit coverage for *stormwater discharges*; and

      ii. The support activity is not a commercial operation, nor does it serve multiple unrelated *construction sites*; and

      iii. The support activity does not continue to operate beyond the completion of the *construction activity* at the site it supports; and

      iv. *Stormwater* controls are implemented in accordance with Part II. and Part III. for *discharges* from the support activity areas.

2. The following non-*stormwater discharges* associated with *construction activity* are authorized under this permit:

   a. Non-*stormwater discharges* listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "*Discharges* from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; and

   b. Non-*stormwater discharges* of waters to which other components have not been added that are used in accordance with the *SWPPP* to control dust or irrigate vegetation in stabilized areas; and

   c. Uncontaminated *discharges* from *dewatering* operations

3. Authorized *discharges* of *stormwater* or authorized *discharges* of non-*stormwater*, commingled with a *discharge* authorized by a different SPDES permit and/or a *discharge* that does not require SPDES permit authorization, are also authorized under this permit.

C. Prohibited *Discharges*

1. Non-*stormwater discharges* prohibited under this permit include but are not limited to:

    a. Wastewater from washout of concrete; and

    b. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials; and

    c. Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance; and

    d. Soaps, solvents, or detergents used in vehicle and equipment washing or external building washdown; and

    e. Toxic or hazardous substances from a spill or other release.

D. Electronic Notice of Intent (eNOI) Submittal

To receive authorization in accordance with Part I.D.3.b., the *owner or operator* must submit a complete eNOI in accordance with the requirements in Part I.D. The eNOI contains questions to: ensure eligibility requirements in Part I.A. have been met; obtain *owner or operator* contact information; obtain the total area to be disturbed and the existing/future *impervious areas* (rounded to the nearest tenth of an acre); confirm *Traditional Land Use Control MS4 Operator* jurisdiction over construction projects; satisfy the EPA eRule requirements; confirm that the Water Quality-Based Effluent Limitations in Part II. have been met; demonstrate consideration of the future risks due to climate change in accordance with Part III.A.2.; and confirm that the other *Stormwater Pollution Prevention Plan (SWPPP)* requirements in Part III. have been met.

1. An eNOI may be submitted for:

    a. *construction activities* that are not part of a *common plan of development or sale*; or

b. an entire *common plan of development or sale*; or

c. separate *phase(s)* of a *common plan of development or sale* if the following requirements are met:

    i. the *common plan of development or sale* meets the eligibility requirements of Part I.A.5. or 6.; and

    ii. the *phase(s)* meet(s) all other eligibility requirements of Part I.A.; and

    iii. Part III.C. Required *SWPPP* Components by Project Type is based on the *common plan of development or sale*, not the *phase(s)*; or

d. *tree clearing* that is associated with, or will support, a *renewable energy* generation, transmission, or storage project that meets Part I.A.5. and 6., if the *tree clearing*:

    i. meets all other eligibility requirements of Part I.A.; and

    ii. will occur in NYSDEC's Regions 3-9; and

    iii. is not within ¼ mile of a bat hibernaculum protected pursuant to 6 NYCRR Part 182; and

    iv. will occur between November 1st and March 31st.

2. As prerequisites for submitting an eNOI, the *owner or operator* must:

    a. prepare a *SWPPP* for Part I.D.1.a., b., c., or d. in accordance with Part III.; and

    b. based on the following criteria, upload the following signature forms signed in accordance with Part VII.J. to the eNOI prior to submission:

        i. for all eNOIs:

            1. the SWPPP Preparer Certification Form, Appendix F, signed by the *SWPPP* preparer; and

2. the Owner/Operator Certification Form, Appendix J, signed by the *owner or operator*; and

ii. if an eNOI includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that will *discharge* to the *MS4(s)*:

1. determine if the *Traditional Land Use Control MS4 Operator(s)* have review authority. A *Traditional Land Use Control MS4 Operator* does not have review authority where:

a. the *owner or operator* of the *construction activities* in Part I.D.2.b.ii. is the same entity as the *Traditional Land Use Control MS4 Operator* identified in Part I.D.2.b.ii.; or

b. there is a statute exempting the *owner or operator* from zoning review by the *Traditional Land Use Control MS4 Operator*; or

c. there is no such statute per Part I.D.2.b.ii.1.b., the *Traditional Land Use Control MS4 Operator* concludes, after public hearing, that it does not have zoning review authority in accordance with Legal Memorandum LU14 Updated January 2020 “Governmental Immunity from Zoning and Other Legislation”; and

2. if the *Traditional Land Use Control MS4 Operator(s)* have review authority, submit the *SWPPP* to the *Traditional Land Use Control MS4 Operator(s)* for review and have:

a. if outside the municipal boundaries of NYC: the MS4 SWPPP Acceptance Form, Appendix G, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.; or

b. if within the municipal boundaries of NYC: The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval Form, Appendix H, signed by the principal executive officer or ranking elected official from the Traditional Land Use Control MS4 Operator, or by a duly authorized representative of that person in accordance with Part VII.J.2.; and

3. if the *Traditional Land Use Control MS4 Operator* does not have review authority, have the MS4 No Jurisdiction Form, Appendix I, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.

3. Submitting an eNOI:

a. The *owner or operator* must submit a complete Notice of Intent electronically using a NYSDEC approved form.[2]

b. The *owner or operator* is authorized to *commence construction activity* as of the authorization date indicated in the Letter of Authorization (LOA), which is sent by NYSDEC after a complete eNOI is submitted.

i. If an eNOI is received for a *SWPPP* that deviates from one of the technical standards but demonstrates *equivalence* in accordance with Part III.B.1.a.ii. or Part III.B.2.b.ii., if the *SWPPP* includes *construction activities* that are not within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)*, and/or if the *SWPPP* includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that do not have review authority in accordance with Part I.D.2.b.ii.1., the authorization date indicated in the LOA will be 60 business days after the eNOI submission date.

[2] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

c. If *Traditional Land Use Control MS4 Operator(s)* have review authority in accordance with Part I.D.2.b.ii.2., the *owner or operator* must, within five business days of receipt of the LOA, send an electronic copy of the LOA to the *Traditional Land Use Control MS4 Operator(s)* with review authority.

E. General Requirements for *Owners or Operators* with Permit Coverage

1. As of the date the LOA is received, the *owner or operator* must make the eNOI, *SWPPP*, and LOA available for review and copying in accordance with the requirements in Part VII.H. When applicable, as of the date an updated LOA is received, the *owner or operator* must make the updated LOA available for review and copying in accordance with the requirements in Part VII.H.

2. The *owner or operator* must ensure compliance with all requirements of this permit and that the provisions of the *SWPPP*, including any changes made to the *SWPPP* in accordance with Part III.A.5., are properly implemented and maintained from the *commencement of construction activity* until:

   a. all areas of disturbance have achieved *final stabilization;* and

   b. the owner's or operator's coverage under this permit is terminated in accordance with Part V.A.5.a.

3. As of the date of the *commencement of construction activities* until Part I.E.2.a. and b. have been met, the *owner or operator* must maintain at the *construction site*, a copy of:

   a. all documentation necessary to demonstrate eligibility with this permit; and

   b. this permit; and

   c. the *SWPPP*; and

   d. the signed SWPPP Preparer Certification Form; and

   e. the signed MS4 SWPPP Acceptance Form or signed NYCDEP SWPPP Acceptance/Approval Form or signed MS4 No Jurisdiction Form (when applicable); and

   f. the signed Owner/Operator Certification Form; and

g. the eNOI; and

h. the LOA; and

i. the LOA transmittal to the Traditional Land Use Control MS4 Operator in accordance with Part I.D.3.c. (when applicable).

4. The *owner or operator* must maintain at the *construction site*, until Part I.E.2.a. and b. have been met, as of the date the documents become final or are received, a copy of the:

   a. responsible contractor's or subcontractor's certification statement(s) in accordance with Part III.A.7.; and

   b. inspection reports in accordance with Part IV.C.4. and 6.; and

   c. Request to Disturb Greater Than Five Acres and the Authorization Letter to Disturb Greater Than Five Acres in accordance with Part I.E.6. (when applicable); and

   d. Request to Continue Coverage and the Letter of Continued Coverage (LOCC) in accordance with Part I.F.2. and 4. (when applicable); and

   e. The updated LOA(s) in accordance with Part I.E.9. (when applicable).

5. The *owner or operator* must maintain the documents in Part I.E.3. and 4. in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection. The documents must be paper documents unless electronic documents are accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be. If electronic documents are kept on site, the *owner or operator* must maintain functional equipment on site available to an inspector during normal hours of operation such that an inspector may view the electronic documents in a format that can be read in a similar manner as a paper record and in a legally dependable format with no less evidentiary value than their paper equivalent.

6. The *owner or operator* must meet the following requirements prior to disturbing greater than five acres of soil at any one time:

   a. The *owner or operator* must submit a written Request to Disturb Greater Than Five Acres to:

i. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, if a *Traditional Land Use Control MS4 Operator* does not have review authority in accordance with Part I.D.2.b.ii.1.; or

ii. the *Traditional Land Use Control MS4 Operator*, if a *Traditional Land Use Control MS4 Operator* has review authority in accordance with Part I.D.2.b.ii.1.; or

iii. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, and each involved *Traditional Land Use Control MS4 Operator*, if the project spans multiple municipalities with more than one *Traditional Land Use Control MS4 Operator* involved with review authority in accordance with Part I.D.2.b.ii.1.

b. The written Request to Disturb Greater Than Five Acres must include:

i. The SPDES permit identification number (Permit ID); and

ii. Full technical justification demonstrating why alternative methods of construction that would result in five acres of soil disturbance or less at any one time are not feasible; and

iii. The phasing plan for the project and sequencing plans for all *phases* from the *SWPPP* in accordance with Part III.B.1.d.; and

iv. Plans with locations and details of erosion and sediment control practices such that the heightened concern for erosion when disturbing greater than five acres at one time has been addressed; and

v. Acknowledgment that "the *owner or operator* will comply with the requirements in Part IV.C.2.b."; and

vi. Acknowledgment that "the *owner or operator* will comply with the requirements in Part II.B.1.b."

c. The *owner or operator* must be in receipt of an Authorization Letter to Disturb Greater Than Five Acres, which will include when the

authorization begins and ends and indicate a maximum area (acres) of soil disturbance allowed at any one time, from:

i. NYSDEC, if Part I.E.6.a.i. or iii. apply; or

ii. the *Traditional Land Use Control MS4 Operator*, if Part I.E.6.a.ii. applies.

7. Upon a finding of significant non-compliance with the practices described in the *SWPPP* or violation of this permit, NYSDEC may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order must be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

8. If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE).[3] *Construction activity* shall not resume until written permission to do so has been received from the RWE.

9. To be authorized to implement modifications to the information previously submitted in the eNOI, the *owner or operator* must:

   a. notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI; and

   b. update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D.; and

   c. receive an updated LOA.

10. The eNOI, *SWPPP*, LOA, updated LOAs (when applicable), and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

[3] The Regional Water Manager where a DEC Region does not have a RWE.

F. Permit Coverage for *Discharges* Authorized Under GP-0-20-001

When applicable:

1. Upon the effective date of this permit, an *owner or operator* of *a construction activity*, with coverage under GP-0-20-001, will have interim coverage under GP-0-25-001 for 45 calendar days starting on the effective date of GP-0-25-001 so long as the *owner or operator* maintains compliance with all applicable requirements of this permit.

2. Within 30 calendar days of the effective date of this permit, the *owner or operator*, with coverage under GP-0-20-001, must submit a complete Request to Continue Coverage electronically using a NYSDEC approved form,[4] which contains the information identified in Part I.F.3. below, if:

   a. the *owner or operator* continues to implement the SMP component in conformance with the technical standards in place at the time of initial project authorization; and

   b. the *owner or operator* will comply with all non-design requirements of GP-0-25-001.

3. The Request to Continue Coverage form contains questions to: ensure eligibility requirements in Part I.A. have been met; verify *owner or operator* contact information; verify the permit identification number; verify the original eNOI submission ID, if applicable; verify Part I.F.2.a. and b.; verify the version of the Design Manual that the technical/design components conform to; and receive an updated Owner/Operator Certification Form, Appendix I.

4. The *owner or operator* has obtained continued coverage under GP-0-25-001 as of the date indicated in the LOCC, which is sent by NYSDEC after a complete Request to Continue Coverage form is submitted.

5. If the owner or operator does not submit the Request to Continue Coverage form in accordance with Part I.F.2. and 3., coverage under this permit is automatically terminated after interim coverage expires.

[4] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

G. Change of *Owner or Operator*

When applicable:

1. When property ownership changes, or when there is a change in operational control over the construction plans and specifications, the following process applies:

    a. The new *owner or operator* must meet the applicable prerequisites for submitting an eNOI in accordance with Part I.D.2.; and

    b. The new *owner or operator* must submit an eNOI in accordance with Part I.D.3.; and

    c. Permit coverage for the new *owner or operator* will be effective upon receipt of the LOA in accordance with Part I.D.3.b.; and

    d. The new *owner or operator*, upon receipt of their LOA, must provide their Permit ID to the original *owner or operator*; and

    e. If the original *owner or operator* will no longer be the *owner or operator* of the *construction activity* identified in the original *owner's or operator's* eNOI, the original *owner or operator*, upon receipt of the new *owner's or operator's* Permit ID in accordance with Part I.G.1.d., must submit to NYSDEC a completed eNOT in accordance with Part V. that includes the name and Permit ID of the new *owner or operator*; or

    f. If the original *owner or operator* maintains ownership of a portion of the *construction activity*, the original *owner or operator* must maintain their coverage under the permit by modifying their eNOI; modifications to the eNOI must include:

        i. the revised area of disturbance and/or *impervious area(s)*; and

        ii. the revised SMP information, if applicable; and

        iii. a narrative description of what has changed; and

        iv. the new *owner's or operator's* Permit ID for the portion of the project removed from the eNOI.

    Owners or operators must follow Part I.E.9. to modify the eNOI.

Part II. Water Quality-Based Effluent Limitations

A. Maintaining Water Quality

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

1. There must be no increase in turbidity that will cause a substantial visible contrast to natural conditions; and

2. There must be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and

3. There must be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

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

If, despite compliance with the requirements of this permit, it is demonstrated that the *stormwater discharge*s authorized by this permit are causing or contributing to a violation of *water quality standards*, or if NYSDEC determines that a modification of this permit is necessary to prevent a violation of *water quality standards*, the authorized *discharge*s will no longer be eligible for coverage under this permit, and the *owner or operator* must obtain an individual SPDES permit prior to further *discharges* from the *construction site*.

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

*Discharge*s authorized by this permit must achieve, at a minimum, the effluent limitations in Part II.B.1.a., b., c., d., and e. These limitations represent the

degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement, and maintain control measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part II.B.1.a., b., c., d., and e. and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (BB), dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in *SWPPP* the reason(s) for the deviation, or alternative design, and provide information in the *SWPPP* demonstrating that the deviation or alternative design is *equivalent* to the technical standard.

    a. **Erosion and Sediment Controls.** At a minimum, erosion and sediment controls must be selected, designed, installed, implemented, and maintained to:

        i. *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharge*s; and

        ii. Control *stormwater discharge*s, including both peak flow rates and total *stormwater* volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points; and

        iii. *Minimize* the amount of soil exposed during *construction activity*; and

        iv. *Minimize* the disturbance of *steep slope*; and

        v. *Minimize* sediment *discharge*s from the site; and

        vi. Provide and maintain *natural buffers* around surface waters, direct *stormwater* to vegetated areas and maximize *stormwater* infiltration to reduce *pollutant discharge*s, unless *infeasible*; and

        vii. *Minimize* soil compaction. *Minimizing* soil compaction is not required

where the intended function of a specific area of the site dictates that it be compacted; and

viii. Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and

ix. *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of *pollutants* that could be discharged from the site.

b. **Soil Stabilization**. In areas where soil disturbance activity has ceased, whether permanently or *temporarily ceased*, the application of soil stabilization measures must be initiated by the end of the next business day and completed within 14 calendar days from the date the current soil disturbance activity ceased. For *construction sites* that *directly discharge* to one of the 303(d) segments listed in Appendix D, or are located in one of the watersheds listed in Appendix C, or are authorized to disturb greater than five acres in accordance with Part I.E.5.a.viii., the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven calendar days from the date the soil disturbance activity ceased.

c. **Dewatering**. *Discharge*s from *dewatering* activities, including *discharge*s from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

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

i. *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. Soaps, detergents and solvents cannot be used; and

ii. *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation

and to *stormwater*. *Minimization* of exposure is not required in cases where the exposure to precipitation and to *stormwater* will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of *stormwater* contamination (such as final products and materials intended for outdoor use); and

iii. Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

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

C. Post-Construction Stormwater Management Practice (SMP) Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction SMPs, in accordance with Part III.C., must select, design, install, implement, and maintain the SMPs to meet the *performance criteria* in the New York State Stormwater Management Design Manual, dated July 31, 2024 (DM), using sound engineering judgment. Where SMPs are not designed in conformance with the *performance criteria* in the DM, the *owner or operator* must include in the *SWPPP* the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. The *owner or operator* of a *construction activity*, that requires SMPs in accordance with Part III.C., must design the practices to meet the applicable *sizing criteria* in Part II.C.2.a., b., c., or d.

a. Sizing Criteria for *New Development*

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the total WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv must be calculated in accordance with the criteria in Section 4.2 of the DM; or

2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the requirements in Part II.C.2.a.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

   In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.4 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

   1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or

   2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs without detention or velocity controls; or

   3. The site *directly discharges* into a fifth order or larger water body (stream, river, or lake), or tidal waters, where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

iii. *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or

2. A downstream analysis reveals that *overbank* control is not required.

iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or

2. A downstream analysis reveals that *overbank* control is not required.

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

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24-hour design storm over the post-developed watershed and must be calculated in accordance with the criteria in Section 4.3 of the DM; or

2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part II.C.2.b.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include

documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible.*

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.5 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or

2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs; or

3. The site *directly discharges* to tidal waters, or a fifth order or larger water body (stream, river, or lake) where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

iii. *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or

2. A downstream analysis reveals that *overbank* control is not required.

iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or

2. A downstream analysis reveals that *overbank* control is not required.

c. *Sizing Criteria* for *Redevelopment Activity*

i. Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* must be addressed by one of the following options, as outlined in Section 9.2.1. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C) must calculate the WQv in accordance with Section 4.3 of the DM. All other *redevelopment activities* must calculate the WQv in accordance with Section 4.2 of the DM.

1. Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the DM must be applied to all newly created pervious areas; or

2. Capture and treat 100% of the required WQv, for a minimum of 25% of the disturbed redevelopment *impervious area*, by implementation of standard SMPs or reduced by application of runoff reduction techniques; or

3. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a volume-based alternative SMP, as defined in Section 9.4 of the DM; or

4. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a flow-through alternative SMP sized to treat the peak rate of runoff from the WQv design storm; or

5. Application of a combination of 1 through 4 above that provide a weighted average of at least two of the above methods. Application of this method must be in accordance with the criteria in Section 9.2.1(A)(V) of the DM; or

6. If there is an existing SMP located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 through 5 above.

ii. Channel Protection Volume (CPv) is not required if there is 0% change to hydrology that increases the *discharge* rate and volume from the project site.

iii. *Overbank* Flood Control (Qp) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

iv. Extreme Flood Control (Qf) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

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

Construction projects, that include both *new development* and *redevelopment activity*, must use SMPs that meet the *sizing criteria* calculated as an aggregate of the *sizing criteria* in Part II.C.2.a. or b. for the *new development* portion of the project and Part II.C.2.c. for the *redevelopment activity* portion of the project.

Part III. Stormwater Pollution Prevention Plan (SWPPP)

A. General *SWPPP* Requirements

1. A *SWPPP* must be prepared and implemented by the *owner or operator* of all *construction activity* covered by this permit. All authorized *discharges* must be identified in the *SWPPP*. The *SWPPP* must document the selection, design, installation, implementation and maintenance of the control measures and

practices that will be used to meet the effluent limitations in Part II.B. and, where applicable, the SMP requirements in Part II.C.

2. The *SWPPP* must demonstrate consideration in narrative format of the future physical risks due to climate change pursuant to the Community Risk and Resiliency Act (CRRA), 6 NYCRR Part 490, and associated guidance.

    a. The owner or operator must consider:

        i. the following physical risks due to climate change:

            (i) increasing temperature; and

            (ii) increasing precipitation; and

            (iii) increasing variability in precipitation, including chance of drought; and

            (iv) increasing frequency and severity of flooding; and

            (v) rising sea level; and

            (vi) increasing storm surge; and

            (vii) shifting ecology.

        ii. for each of the following:

            (i) overall site planning; and

            (ii) location, elevation, and sizing of:

                a. control measures and practices; and

                b. conveyance system(s); and

                c. detention system(s).

3. The *SWPPP* must describe the erosion and sediment control practices and where required, SMPs that will be used and/or constructed to reduce the *pollutants* in *stormwater discharges* and to assure compliance with the

requirements of this permit. In addition, the *SWPPP* must identify potential sources of pollution which may reasonably be expected to affect the quality of *stormwater discharges*.

4. All *SWPPPs*, that require the SMP component in accordance with Part III.B.2., must be prepared by a *qualified professional*.

5. The *owner or operator* must keep the *SWPPP* current so that, at all times, it accurately documents the erosion and sediment control practices that are being used or will be used during construction, and all SMPs that will be constructed on the site. At a minimum, the *owner or operator* must modify the *SWPPP*, including construction drawings:

   a. whenever the current provisions prove to be ineffective in *minimizing pollutants* in *stormwater discharges* from the site; and

   b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*; and

   c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* NYSDEC, or other regulatory authority; and

   d. to document the final construction conditions in an as-built drawing.

6. NYSDEC may notify the *owner or operator* at any time that the *SWPPP* does not meet one or more of the minimum requirements of this permit. The notification must be in writing and identify the provisions of the *SWPPP* that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by NYSDEC, the *owner or operator* must make the required changes to the *SWPPP* and submit written notification to NYSDEC that the changes have been made. If the *owner or operator* does not respond to NYSDEC's comments in the specified time frame, NYSDEC may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4.

7. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion and sediment control practices included in the *SWPPP* and the

contractor(s) and subcontractor(s) that will be responsible for constructing the SMPs included in the *SWPPP*. The *owner or operator* must have each of the contractors and subcontractors identify at least one person from their company to be *trained contractor* that will be responsible for implementation of the *SWPPP*. The *owner or operator* must ensure that at least one *trained contractor* is on site daily when soil disturbance activities are being performed.

The *owner or operator* must have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before the *commencement of construction activities*:

> "I hereby certify under penalty of law that I understand and agree to comply with the requirements of the *SWPPP* and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) for Stormwater Discharges from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the *SWPPP* that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for *SWPPP* implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* must attach the certification statement(s) to the copy of the *SWPPP* that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the *SWPPP* after the *commencement of construction activities*, they must also sign the certification statement and provide the information listed above prior to performing *construction activities*.

B. Required *SWPPP* Contents

1. Erosion and sediment control component - The *owner or operator* must prepare a *SWPPP* that includes erosion and sediment control practices.

    a. Erosion and sediment control practices must be designed:

        i. in conformance with the BB; or

        ii. *equivalent* to the BB if deviating from Part III.B.1.a.i.

    b. If the erosion and sediment control practices are designed in conformance with Part III.B.1.a.ii., the *SWPPP* must include a demonstration of *equivalence* to the BB.

    c. At a minimum, the erosion and sediment control component of the *SWPPP* must include the following:

        i. Background information about the scope of the project, including the location, type and size of project; and

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

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

        iv. A phasing plan for the project and sequencing plans for all *phases*, both of which must address clearing and grubbing, excavation and grading, utility and infrastructure installation, *final stabilization*,

and any other *construction activity* at the site that will result in soil disturbance.

1. The phasing plan must include:

    a. a map delineating and labeling the limits of soil disturbance for all *phases* of a project; and

    b. a table identifying the order and intended schedule of when each *phase* will begin and end its sequencing plan. The table must identify the total disturbed area for each *phase* at any one time and the total disturbed area for the overall project at any one time all on one timeline showing all overlapping quantities of disturbed area at any one time; and

2. A sequencing plan for a specific *phase* must include:

    a. a table indicating the order and intended schedule of *construction activities* within a *phase*, and corresponding construction drawings with a description of the work to be performed; and

    b. all permanent and *temporary stabilization* measures; and

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

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

vii. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any

temporary sediment basins and structural practices that will be used to divert flows from exposed soils; and

viii. A maintenance inspection schedule for the contractor(s) and subcontractor(s) identified in Part III.A.7. to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection schedule must be in accordance with the requirements in the BB technical standard; and

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

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

xi. Identification of any elements of the design that are not in conformance with the design criteria in the BB technical standard. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. SMP component – The *owner or operator* of *construction activity* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs.

   a. SMPs must be designed in conformance with the applicable *sizing criteria* in Part II.C.2.a., c., or d.; and

   b. SMPs must be designed in conformance with the *performance criteria*:

      i. in the DM; or

      ii. *equivalent* to the DM if deviating from Part III.B.2.b.i.; or

      iii. in the New York State Stormwater Management Design Manual, dated January 2015 (2015 Design Manual), or *equivalent* to it, if the following criteria are met:

1. The eNOI is submitted in accordance with Part I.D. before January 29, 2027 for *construction activities* that are either:

    a. subject to governmental review and approval:

        i. where the *owner or operator* made any application to that governmental entity prior to the effective date of this permit; and

        ii. such application included a *SWPPP* developed using the 2015 Design Manual or *equivalent* to it; or

    b. not subject to governmental review and approval:

        i. where a fiscal allocation for the *construction activities* has been developed and approved by a governmental entity; and

        ii. the *SWPPP* was developed using the 2015 Design Manual or *equivalent* to it; and

c. If SMPs are designed in conformance with Part III.B.2.b.ii., the *SWPPP* must include the reason(s) for the deviation or alternative design and a demonstration of *equivalence* to the DM; and

d. If SMPs are designed in conformance with Part III.B.2.b.iii., the *SWPPP* must include supporting information or documentation demonstrating that Part III.B.2.b.iii.1.a. or b. apply; and

e. The SMP component of the *SWPPP* must include the following:

    i. Identification of all SMPs to be constructed as part of the project, including which option the SMP designs conform to, either Part III.B.2.b.i., ii., or iii. Include the dimensions, material specifications and installation details for each SMP; and

    ii. A site map/construction drawing(s) showing the specific location and size of each SMP; and

iii. A Stormwater Modeling and Analysis Report that includes:

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

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

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

(iv) Summary table, with supporting calculations, which demonstrates that each SMP has been designed in conformance with the *sizing criteria* included in the DM; and

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

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

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

v. Infiltration test results, when required in accordance with Part III.B.2.a.; and

vi. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each SMP. The plan must identify the entity

that will be responsible for the long-term operation and maintenance of each practice; and

3. Enhanced Phosphorus Removal Standards - The *owner or operator* of *construction activity* identified in Table 2 of Appendix B that is located in a watershed identified in Appendix C must prepare a *SWPPP* that includes SMPs designed in conformance with the applicable *sizing criteria* in Part II.C.2.b., c., or d. and the *performance criteria* Enhanced Phosphorus Removal Standards included in the DM. At a minimum, the SMP component of the *SWPPP* must meet the requirements of Part III.B.2.

C. Required *SWPPP* Components by Project Type

Owners or operators of *construction activities*, identified in Table 1 of Appendix B, are required to prepare a *SWPPP* that only includes erosion and sediment control practices designed in accordance with Part III.B.1. *Owners or operators* of the *construction activities*, identified in Table 2 of Appendix B, must prepare a *SWPPP* that also includes SMPs designed in accordance with Part III.B.2 or 3.

For the entire area of disturbance, including the entire *common plan of development or sale* if applicable, the owner or operator must evaluate every bullet from Appendix B Table 1 and Table 2 separately. If bullets from both Table 1 and Table 2 apply, the *SWPPP* must include erosion and sediment control practices for all *construction activities* but SMPs for only those portions of the *construction activities* that fall under Table 2 bullet(s).

Part IV. Inspection and Maintenance Requirements

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures), and all SMPs identified in the *SWPPP*, are inspected and maintained in accordance with Part IV.B. and C.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity*, identified in Tables 1 and 2 of Appendix B, must have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being

implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor must:

a. if the corrective action does not require engineering design:

    i. begin implementing corrective actions within one business day; and

    ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

    i. begin the engineering design process within five business days; and

    ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

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

3. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections in accordance with Part IV.B.1. if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational.

C. *Qualified Inspector* Inspection Requirements

1. With the exception of the following *construction activities* identified in Tables 1 and 2 of Appendix B, a *qualified inspector* must conduct site inspections for all other *construction activities* identified in Tables 1 and 2 of Appendix B:

    a. the construction of a single-family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than or equal to five (5) acres and is

not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D; and

b. the construction of a single-family home that involves soil disturbances of one (1) or more acres but less than or equal to five (5) acres and is not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D; and

c. construction on *agricultural property* that involves soil disturbances of one (1) or more acres but less than five (5) acres; and

d. *construction activities* located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances of 5,000 square feet or more, but less than one acre.

2. The *qualified inspector* must conduct site inspections in accordance with the following timetable:

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

   b. For *construction sites* where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part I.E.6. to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days; or

   c. For *construction sites* where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* must conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas under the jurisdiction of a *Traditional Land Use Control MS4 Operator,* the *Traditional Land Use Control MS4 Operator* (provided the *Traditional Land Use Control MS4 Operator* is not the *owner or operator* of the *construction activity*) by hard copy or email prior to reducing the inspections to this frequency and again by hard copy or email prior to re-commencing construction; or

d. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the requirement to have the *qualified inspector* conduct inspections ceases if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1., the *Traditional Land Use Control MS4 Operator(s)* (provided the *Traditional Land Use Control MS4 Operator(s)* are not the *owners or operators* of the *construction activity*) in writing prior to the shutdown and again in writing prior to resuming *construction activity*. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* must terminate coverage by meeting the requirements of Part V; or

e. For *construction sites* involving soil disturbance of one (1) or more acres that *directly discharge* to one of the 303(d) segments listed in Appendix D or is located in one of the watersheds listed in Appendix C, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* must inspect:

   a. all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness; and

   b. all SMPs under construction to ensure that they are constructed in conformance with the *SWPPP*; and

   c. all areas of disturbance that have not achieved *final stabilization*; and

   d. all points of *discharge* to *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site*; and

   e. all points of *discharge* from the *construction site*.

4. The *qualified inspector* must prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report must include and/or address all of the following, for all *construction activities* except those listed in Part IV.C.1.:

   a. Permit identification number; and

   b. Date and time of inspection; and

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

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

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

   f. A description of the condition of all *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This must include identification of any *discharges* of sediment to the *surface waters of the State*; and

   g. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance; and

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

   i. Description and sketch (map) of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection; and

   j. Estimates, in square feet or acres, of the following areas:

i. Total area with active soil disturbance (not requiring either *temporary stabilization* or *final stabilization*); and

ii. Total area with inactive soil disturbance (requiring either *temporary stabilization* or *final stabilization*); and

iii. Total area that has achieved *temporary stabilization*; and

iv. Total area that has achieved *final stabilization*; and

k. Current stage of construction of all SMPs and identification of all *construction activity* on site that is not in conformance with the *SWPPP* and technical standards; and

l. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the SMP(s); and

m. Identification and status of all corrective actions that were required by previous inspection; and

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

5. Within one business day of the completion of an inspection, the *qualified inspector* must notify the *owner or operator*, and appropriate contractor or subcontractor identified in Part III.A.7., of any corrective actions that need to be taken. The contractor or subcontractor must:

a. if the corrective action does not require engineering design:

i. begin implementing corrective actions within one business day; and

ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

i. begin the engineering design process within five business days; and

ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

6. All inspection reports must be signed by the *qualified inspector.* In accordance with Part I.E.3., the inspection reports must be maintained on site with the *SWPPP*.

Part V. How to Terminate CGP Coverage

A. Electronic Notice of Termination (eNOT) Submittal

The eNOT contains questions to ensure requirements in Part V.A. have been met.

1. An *owner or operator* must terminate coverage when one or more of the following requirements have been met:

a. Total project completion:

i. all *construction activity* identified in the *SWPPP* has been completed; and

ii. all areas of disturbance have achieved *final stabilization*; and

iii. all temporary, structural erosion and sediment control measures have been removed; and

iv. all SMPs have been constructed in conformance with the *SWPPP* and are operational; and

v. an as-built drawing has been prepared; or

b. Planned shutdown with partial project completion:

   i. all soil disturbance activities have ceased; and

   ii. all areas disturbed as of the project shutdown date have achieved *final stabilization*; and

   iii. all temporary, structural erosion and sediment control measures have been removed; and

   iv. all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational; and

   v. an as-built drawing has been prepared; or

c. In accordance with Part I.G. Change of Owner or Operator; or

d. The *owner or operator* has obtained coverage under an alternative general SPDES permit or an individual SPDES permit.

2. For *construction activities* that require *qualified inspector* inspections in accordance with Part IV.C.1. and have met Part V.A.1.a. or b., the *owner or operator* must have the *qualified inspector* perform a final site inspection prior to submitting the eNOT. The *qualified inspector* must, by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice(s)" certification statements on the eNOT, certify that all the requirements in Part V.A.1.a. or b. have been achieved.

3. For *construction activities* that are subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1. and meet Part V.A.1.a. or b., the *owner or operator* must have the *Traditional Land Use Control MS4 Operator(s)* sign the "MS4 Acceptance" statement on the eNOT in accordance with the requirements in Part VII.J. A *Traditional Land Use Control MS4 Operator* official, by signing this statement, determined that it is acceptable for the *owner or operator* to submit the eNOT in accordance with the requirements of this Part. A *Traditional Land Use Control MS4 Operator* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector*'s final site inspection certification(s) when required in Part V.A.2.

4. For *construction activities* that require SMPs and meet Part V.A.1.a. or b., the *owner or operator* must, prior to submitting the eNOT, ensure one of the following:

    a. for SMP(s) that were constructed by a private entity, but will be owned, operated, and maintained by a public entity, the SMP(s) and any right-of-way(s) needed to operate and maintain such practice(s) have been deeded to the municipality in which the practice(s) is located; or

    b. for SMP(s) that are privately owned, but will be operated and maintained by a public entity, an executed operation and maintenance agreement is in place with the municipality that will operate and maintain the SMP(s); or

    c. for SMP(s) that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record; or

    d. for SMP(s) that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility, the *owner or operator* has policies and procedures in place that ensure operation and maintenance of the practices in accordance with the operation and maintenance plan.

5. An *owner or operator* that has met the requirements of Part V.A.1., 2., 3., and 4. must request termination of coverage under this permit by submitting a complete Notice of Termination form electronically using a NYSDEC approved form.[5]

    a. The owner's or operator's coverage is terminated as of the termination date indicated in the Letter of Termination (LOT), which is sent by NYSDEC after a complete eNOT is submitted.

[5] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

Part VI. Record Retention and Reporting

A. Record Retention

The *owner or operator* must retain a copy of the documents listed in Part I.E.3. and a copy of the LOT for a period of at least five years from the date that NYSDEC accepts a complete NOT submitted in accordance with Part V.

B. Reporting

Except for the eNOI, the signature forms associated with the eNOI, and the eNOT, all other written correspondence requested by NYSDEC, including individual permit applications, must be sent to the address of the appropriate DOW (SPDES) Program contact at the Regional Office listed in Appendix E.

Part VII. Standard Permit Requirements

For the purposes of this permit, examples of contractors and subcontractors include: third-party maintenance and construction contractors.

A. Duty to Comply

The *owner or operator*, and all contractors or subcontractors, must comply with all requirements of this permit. Any non-compliance with the requirements of this permit constitutes a violation of the New York State Environmental Conservation Law (ECL), and its implementing regulations, and is grounds for enforcement action. Filing of a request for termination of coverage under this permit, or a notification of planned changes or anticipated non-compliance, does not limit, diminish or stay compliance with any requirements of this permit.

B. Need to Halt or Reduce Activity Not a Defense

The necessity to halt or reduce the *construction activity* regulated by this permit, in order to maintain compliance with the requirements of this permit, must not be a defense in an enforcement action.

C. Penalties

There are substantial criminal, civil, and administrative penalties associated with violating the requirements of this permit. Fines of up to $37,500 per day for each

violation and imprisonment for up to 15 years may be assessed depending upon the nature and degree of the offense.

D. False Statements

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

E. Re-Opener Clause

Upon issuance of this permit, a determination has been made on the basis of a submitted Notice of Intent, plans, or other available information, that compliance with the specified permit requirements will reasonably protect classified water use and assure compliance with applicable *water quality standards*. Satisfaction of the requirements of this permit notwithstanding, if operation pursuant to this permit causes or contributes to a condition in contravention of State *water quality standards* or guidance values, or if NYSDEC determines that a modification is necessary to prevent impairment of the best use of the waters or to assure maintenance of *water quality standards* or compliance with other provisions of ECL Article 17 or the Clean Water Act (CWA), or any regulations adopted pursuant thereto, NYSDEC may require such modification and the Commissioner may require abatement action to be taken by the *owner or operator* and may also prohibit such operation until the modification has been implemented.

F. Duty to Mitigate

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

G. Requiring Another General Permit or Individual SPDES Permit

NYSDEC may require any *owner or operator* authorized to *discharge* in accordance with this permit to apply for and obtain an individual SPDES permit or apply for authorization to *discharge* in accordance with another general SPDES permit.

1. Cases where an individual SPDES permit or authorization to discharge in accordance with another general SPDES permit may be required include, but is not limited to the following:

a. the *owner or operator* is not in compliance with the conditions of this permit or does not meet the requirements for coverage under this permit; and

b. a change has occurred in the availability of demonstrated technology or practices for the control or abatement of *pollutants* applicable to the *point source*; and

c. new effluent limitation guidelines or new source performance standards are promulgated that are applicable to *point sources* authorized to *discharge* in accordance with this permit; and

d. existing effluent limitation guidelines or new source performance standards that are applicable to *point sources* authorized to *discharge* in accordance with this permit are modified; and

e. a water quality management plan containing requirements applicable to such *point sources* is approved by NYSDEC; and

f. circumstances have changed since the time of the request to be covered so that the *owner or operator* is no longer appropriately controlled under this permit, or either a temporary or permanent reduction or elimination of the authorized *discharge* is necessary; and

g. the *discharge* is in violation of section 17-0501 of the ECL; and

h. the *discharge(s)* is a significant contributor of *pollutants*. In making this determination, NYSDEC may consider the following factors:

   i. the location of the *discharge(s)* with respect to *surface waters of the State*; and

   ii. the size of the *discharge(s)*; and

   iii. the quantity and nature of the *pollutants discharged* to *surface waters of the State*; and

   iv. other relevant factors including compliance with other provisions of ECL Article 17, or the CWA.

2. When NYSDEC requires any *owner or operator* authorized by this permit to apply for an individual SPDES permit as provided for in this subdivision, it must notify the *owner or operator* in writing that a permit application is required. This notice must include a brief statement of the reasons for this decision, an application

form, a statement setting a time for the *owner or operator* to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from the *owner's or operator's* receipt of the notification letter, whereby the authorization to *discharge* under this permit must be terminated. NYSDEC may grant additional time upon demonstration, to the satisfaction of the RWE,[6] that additional time to apply for an alternative authorization is necessary or where NYSDEC has not provided a permit determination in accordance with 6 NYCRR Part 621.

3. When an individual SPDES permit is issued to an *owner or operator* authorized to *discharge* under this permit for the same *discharge(s)*, this permit authorization for *construction activities* authorized under the individual SPDES permit is automatically terminated on the effective date of the individual SPDES permit unless termination is earlier in accordance with 6 NYCRR Part 750.

H. Duty to Provide Information

The *owner or operator* must furnish to NYSDEC, within five business days, unless otherwise set forth by NYSDEC, any information that NYSDEC may request to determine whether cause exists to determine compliance with this permit or to determine whether cause exists for requiring an individual SPDES permit in accordance with 6 NYCRR 750-1.21(e) (see Part VII.G. Requiring Another General Permit or Individual Permit).

The *owner or operator* must make available to NYSDEC, for inspection and copying, or furnish to NYSDEC within 25 business days of receipt of a NYSDEC request for such information, any information retained in accordance with this permit.

Except for Part I.D.4. and 5. and Part I.G., the following applies: where the *owner or operator* becomes aware that it failed to submit any relevant facts on the Notice of Intent, or submitted incorrect information in a Notice of Intent or in any report to NYSDEC, the *owner or operator* must submit such facts or corrected information to NYSDEC within five business days.

I. Extension

In the event a new permit is not issued and effective prior to the expiration of this permit, and this permit is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, then the *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the requirements of this permit until a new permit is issued and effective.

[6] The Regional Water Manager where a DEC Region does not have a RWE.

J. Signatories and Certification

The Notice of Intent, Notice of Termination, and reports required by this permit must be signed as provided in 40 CFR §122.22.

1. All Notices of Intent and Notices of Termination must be signed as follows:

    a. For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

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

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

        Note: NYSDEC does not require specific assignments or delegations of authority to responsible corporate officers identified in 40 CFR §122.22(a)(1)(i). NYSDEC will presume that these responsible corporate officers have the requisite authority to sign the Notice of Intent or Notice of Termination unless the corporation has notified NYSDEC to the contrary. Corporate procedures governing authority to sign a Notice of Intent or Notice of Termination may provide for assignment or delegation to applicable corporate positions under 40 CFR §122.22(a)(1)(ii) rather than to specific individuals.

    b. For a partnership or sole proprietorship. By a general partner or the proprietor, respectively.

c. For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

    1. the chief executive officer of the agency; or

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

2. All reports required by this permit, and other information requested by NYSDEC, must be signed by a person described in Part VII.J.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

    a. The authorization is made in writing by a person described in Part VII.J.1. or using the Duly Authorized Form, found on the DEC website; and

    b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

    c. The written authorization is submitted to NYSDEC.

3. Changes to authorization. If an authorization under Part VII.J.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the *construction activity*, a new authorization satisfying the requirements of Part VII.J.2. must be submitted to NYSDEC prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under Part VII.J.1. or 2. must make the following certification:

    I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who

manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

5. Electronic reporting. If documents described in Part VII.J.1. or 2. are submitted electronically by or on behalf of the *construction activity* with coverage under this permit, any person providing the electronic signature for such documents must meet all relevant requirements of this section, and must ensure that all of the relevant requirements of 40 CFR Part 3 (including, in all cases, subpart D to Part 3) (Cross-Media Electronic Reporting) and 40 CFR Part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

K. Inspection and Entry

The *owner or operator* must allow NYSDEC, the USEPA Regional Administrator, the applicable county health department, or any authorized representatives of those entities, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the *discharge*, upon the presentation of credentials and other documents as may be required by law, to:

1. enter upon the *owner's or operator's* premises where a regulated facility or activity is located or conducted or where records must be kept under the requirements of this permit; and

2. have access to and copy at reasonable times, any records that must be kept under the requirements of this permit, including records required to be maintained for purposes of operation and maintenance; and

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

4. sample or monitor at reasonable times, for the purposes of assuring general SPDES permit compliance or as otherwise authorized by the CWA or ECL, any substances or parameters at any location; and

5. enter upon the property of any contributor to the regulated facility or activity under authority of the *owner or operator*.

L. Confidentiality of Information

The following must not be held confidential: this permit, the fact sheet for this permit, the name and address of any *owner or operator*, effluent data, the Notice of Intent, and information regarding the need to obtain an individual permit or an alternative general SPDES permit. This includes information submitted on forms themselves and any attachments used to supply information required by the forms (except information submitted on usage of substances). Upon the request of the *owner or operator*, NYSDEC must make determinations of confidentiality in accordance with 6 NYCRR Part 616, except as set forth in the previous sentence. Any information accorded confidential status must be disclosed to the Regional Administrator upon his or her written request. Prior to disclosing such information to the Regional Administrator, NYSDEC will notify the Regional Administrator of the confidential status of such information.

M. Other Permits May Be Required

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

N. NYSDEC Orders or Civil Decrees/Judgments

The issuance of this permit by the NYSDEC, and the coverage under this permit by the *owner or operator*, does not supersede, revoke, or rescind any existing order on consent or civil Decree/Judgment, or modification to any such documents or to any order issued by the Commissioner, or any of the terms, conditions, or requirements contained in such order or modification therefore, unless expressly noted.

O. Property Rights

Coverage under this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining the assent of any other jurisdiction as required by law for the *discharge* authorized.

P. Compliance with Interstate Standards

If the *construction activity* covered by this permit originates within the jurisdiction of an interstate water pollution control agency, then the *construction activity* must also comply with any applicable effluent standards or *water quality standards* promulgated by that interstate agency and as set forth in this permit for such *construction activities*.

Q. Oil and Hazardous Substance Liability

Coverage under this permit does not affect the imposition of responsibilities upon, or the institution of any legal action against, the *owner or operator* under section 311 of the CWA, which must be in conformance with regulations promulgated pursuant to section 311 governing the applicability of section 311 of the CWA to *discharges* from facilities with *NPDES* permits, nor must such issuance preclude the institution of any legal action or relieve the *owner or operator* from any responsibilities, liabilities, or penalties to which the *owner or operator* is or may be subject pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. section 9601 et seq. (CERCLA).

R. Severability

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

S. NYSDEC Approved Forms

The *owner or operator* must provide all relevant information that is requested by NYSDEC, and required by this permit, on all NYSDEC approved forms.

APPENDIX A – Abbreviations and Definitions

Abbreviations

APO – Agency Preservation Officer
BB – New York State Standards and Specifications for Erosion and Sediment Control (Blue Book), dated November 2016
BMP – Best Management Practice
CPESC – Certified Professional in Erosion and Sediment Control
CPv – Channel Protection Volume
CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)
DM – New York State Stormwater Management Design Manual (Design Manual), dated July 31, 2024
DOW – Division of Water
EAF – Environmental Assessment Form
ECL – chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law
EPA – U.S. Environmental Protection Agency
HSG – Hydrologic Soil Group
MS4 – Municipal Separate Storm Sewer System
NOI – Notice of Intent
NOT – Notice of Termination
NPDES – National Pollutant Discharge Elimination System
NYC – The City of New York
NYCDEP – The City of New York Department of Environmental Protection
NYSDEC – The New York State Department of Environmental Conservation
OPRHP – Office of Parks, Recreation and Historic Places
Qf – Extreme Flood
Qp – Overbank Flood
RR – Runoff Reduction
RRv – Runoff Reduction Volume
RWE – Regional Water Engineer
SEQR – State Environmental Quality Review Act
SHPA – State Historic Preservation Act
SMP – Post-Construction Stormwater Management Practice
SPDES – State Pollutant Discharge Elimination System
SWPPP – Stormwater Pollution Prevention Plan
TMDL – Total Maximum Daily Load
UPA – Uniform Procedures Act
USDA – United States Department of Agriculture
WQv – Water Quality Volume

Definitions

All definitions in this section are solely for the purposes of this permit. If a word is not italicized in the permit, use its common definition.

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

Agricultural Property – the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023).

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

Combined Sewer System – a sewer system which conveys sewage and *stormwater* through a single pipe system to a publicly owned treatment works.

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

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

Common plan of development or sale does not include separate and distinct *construction activities* that are occurring, or may occur, under one plan that are at least 1/4 mile apart provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

Construction Activity(ies) – identified within 40 CFR 122.26(b)(14)(x), 122.26(b)(15)(i), and 122.26(b)(15)(ii), any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, mechanized logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal.

Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, which is excluded from the calculation of the soil disturbance for a project. Routine maintenance includes, but is not limited to:

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

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

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

Directly Discharge(s)(ing) (to a specific surface waterbody) – runoff flows from a *construction site* by overland flow and the first point of *discharge* is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system and the first point of *discharge* from the separate storm sewer system is the specific surface waterbody.

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

Embankment – an earthen or rock slope that supports a road/highway.

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

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

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

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

Infeasible – not technologically possible, or not economically practicable and achievable considering best industry practices.

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

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

1. owned or operated by a State, city, town, village, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, *stormwater*, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA, that *discharges* to *surface waters of the State*; and

2. designed or used for collecting or conveying *stormwater*; and

3. which is not a *combined sewer system*; and

4. which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

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

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

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

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

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

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

Performance Criteria – the six performance criteria for each group of SMPs in Chapters 5 and 6 of the technical standard, New York State Stormwater Management Design Manual (DM), dated July 31, 2024. These include feasibility, conveyance, pretreatment, treatment, landscaping, and maintenance. It does not include the *Sizing Criteria* (i.e. WQv, RRv, CPv, Qp and Qf) in Part I.C.2. of the permit.

Phase – a defined area in which *construction activities* are occurring or will occur separate from other defined area(s).

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

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

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

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

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

Note: Inspections of any SMPs that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

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

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

Renewable Energy – electricity or thermal energy generated by renewable energy systems through use of the following technologies: solar thermal, photovoltaics, on land and offshore wind, hydroelectric, geothermal electric, geothermal ground source heat, tidal energy, wave energy, ocean thermal, and fuel cells which do not utilize a fossil fuel resource in the process of generating electricity.

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

Sizing Criteria – the criteria included in Part I.C.2 of the permit that are used to size SMPs. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

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

Stormwater – that portion of precipitation that, once having fallen to the ground, is in excess of the evaporative or infiltrative capacity of soils, or the retentive capacity of surface features, which flows or will flow off the land by surface runoff to waters of the State.

Streambank – the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

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

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

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

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

Total Maximum Daily Load (TMDL) – the sum of the allowable loads of a single *pollutant* from all contributing point and *nonpoint source*s. It is a calculation of the maximum amount of a *pollutant* that a waterbody can receive and still meet *water quality standards*, and an allocation of that amount to the *pollutant's* sources. A TMDL stipulates Waste Load Allocations (WLA) for *point source discharges*, Load Allocations (LA) for *nonpoint source*s, and a margin of safety (MOS).

Traditional Land Use Control MS4 Operator – a city, town, or village with land use control authority that is authorized to *discharge* under New York State DEC's SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Trained Contractor – an employee from the contracting (construction) company, identified in Part III.A.7., that has received four (4) hours of NYSDEC endorsed training

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

It can also mean an employee from the contracting (construction) company, identified in Part III.A.7., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity).

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

Tree Clearing – *construction activities* limited to felling and removal of trees.

Tree clearing does not include hand felling and leaving the trees in place with no support from mechanized equipment, which is not considered *construction activity* requiring coverage under this permit.

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

APPENDIX B – Required SWPPP Components by Project Type

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

The following *construction activities* that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:

- Single-family home not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family residential subdivisions with 25% or less *impervious cover* at total site build-out and not located in one of the watersheds listed in Appendix C and not *directly discharging* to one of the 303(d) segments listed in Appendix D
- Construction of a barn or other *agricultural building*, silo, stock yard or pen.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that include construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.

The following *construction activities* that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:

- All construction activities located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

Within the municipal boundaries of NYC:

- Stand-alone road reconstruction, where the total soil disturbance from only that road construction, is less than one (1) acre of land.

The following *construction activities*:

- Installation of underground linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains
- Environmental enhancement projects, such as wetland mitigation, *stormwater* retrofits, stream restoration, and resiliency projects that reconstruct shoreline areas to address sea level rise
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an *impervious cover*
- Cross-country ski trails, walking/hiking trails, and mountain biking trails, including a de minimis parking lot (maximum 10 spaces total, sized for passenger cars) with 35 feet minimum preservation of undisturbed area downgradient from the parking lot
- Dam rehabilitation (the structure of the dam itself)
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are not part of residential, commercial, or institutional development;
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path, or walking path.

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

The following *construction activities*:

- Slope stabilization
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics
- Spoil areas that will be covered with vegetation
- Vegetated open space (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) that do not *alter hydrology from pre- to post-development* conditions
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions
- Demolition where vegetation will be established, and no *redevelopment activity* is planned[1]
- Installation or replacement of either an overhead electric transmission line or a ski lift tower that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*.
- Solar array field areas that have tables elevated off the ground, spaced one table width apart, do not *alter hydrology from pre- to post-development conditions*, and address water quality volume and runoff reduction volume by maintaining sheet flow on slopes less than 8%.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that do not include construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions.
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary *impervious areas* that will be restored to pre-construction conditions once the *construction activity* is complete (in this context, "temporary" means the *impervious area* will be in place for two years or less)
- Other *construction activities* that do not include the construction or reconstruction of *impervious area*, and do not *alter hydrology from pre- to post-development* conditions, and are not listed in Table 2.

1. If the site is redeveloped in the future, a new eNOI must be submitted.

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

The following *construction activities*:

- Single-family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family home that disturbs five (5) or more acres of land
- Single-family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of between 20,000 square feet and one (1) acre of land within the municipal boundaries of NYC with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single-family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a *common plan of development or sale* that will ultimately disturb five (5) or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Creation of 5,000 square feet or more of *impervious area* in the municipal boundaries of NYC
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) that involves soil disturbance greater than five acres.
- Structural agricultural conservation practices as identified in Table II in the “Agricultural Best Management Practice Systems Catalogue” (dated June 2023) that involves soil disturbance greater than five acres and include the construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.
- Facility buildings, including ski lodges, restroom buildings, pumphouses, ski lift terminals, and maintenance and groomer garages
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills; including creation of landfills or capping landfills.
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTWs, water treatment plants, and water storage tanks
- Golf courses
- Office complexes

Table 2 (Continued)

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

The following *construction activities*:

- Permanent laydown yards and equipment storage lots
- Playgrounds that include the construction or reconstruction of *impervious area*
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surfaces
- Road construction or reconstruction, outside the municipal boundaries of NYC
- Road construction within the municipal boundaries of NYC
- Stand-alone road reconstruction, within the municipal boundaries of NYC where the total soil disturbance from that road reconstruction involves soil disturbance of one (1) acre or more of land
- Parking lot construction or reconstruction (as with all Table 2 bullets, this includes parking lots constructed as part of the *construction activities* listed in Table 1, unless a Table 1 bullet specifies otherwise)
- Athletic fields (natural grass) that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations, and well drilling pads, surfaced with *impervious cover,* and constructed as part of an overhead electric transmission line, wind-power, cell tower, oil or gas well drilling, sewer or water main, ski lift, or other linear utility project
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of a residential, commercial or institutional development
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of highway construction or reconstruction
- Solar array field areas on slopes greater than 8% that cannot maintain sheet flow using management practices identified in the BB or the DM
- Solar array field areas on slopes less than 8% that will *alter the hydrology from pre- to post-development* conditions
- Solar array field areas with tables that are not elevated high enough to achieve *final stabilization* beneath the tables
- Traditional *impervious areas* associated with solar development (e.g. roads, buildings, transformers)
- Utility pads surfaced with *impervious cover*, including electric vehicle charging stations
- All other *construction activities* that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre- to post-development* conditions, and are not listed in Table 1

APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators* of *construction activities* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs designed in conformance with the Enhanced Phosphorus Removal Standards included in the DM technical standard.

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

Figure 1 - New York City Watershed East of the Hudson

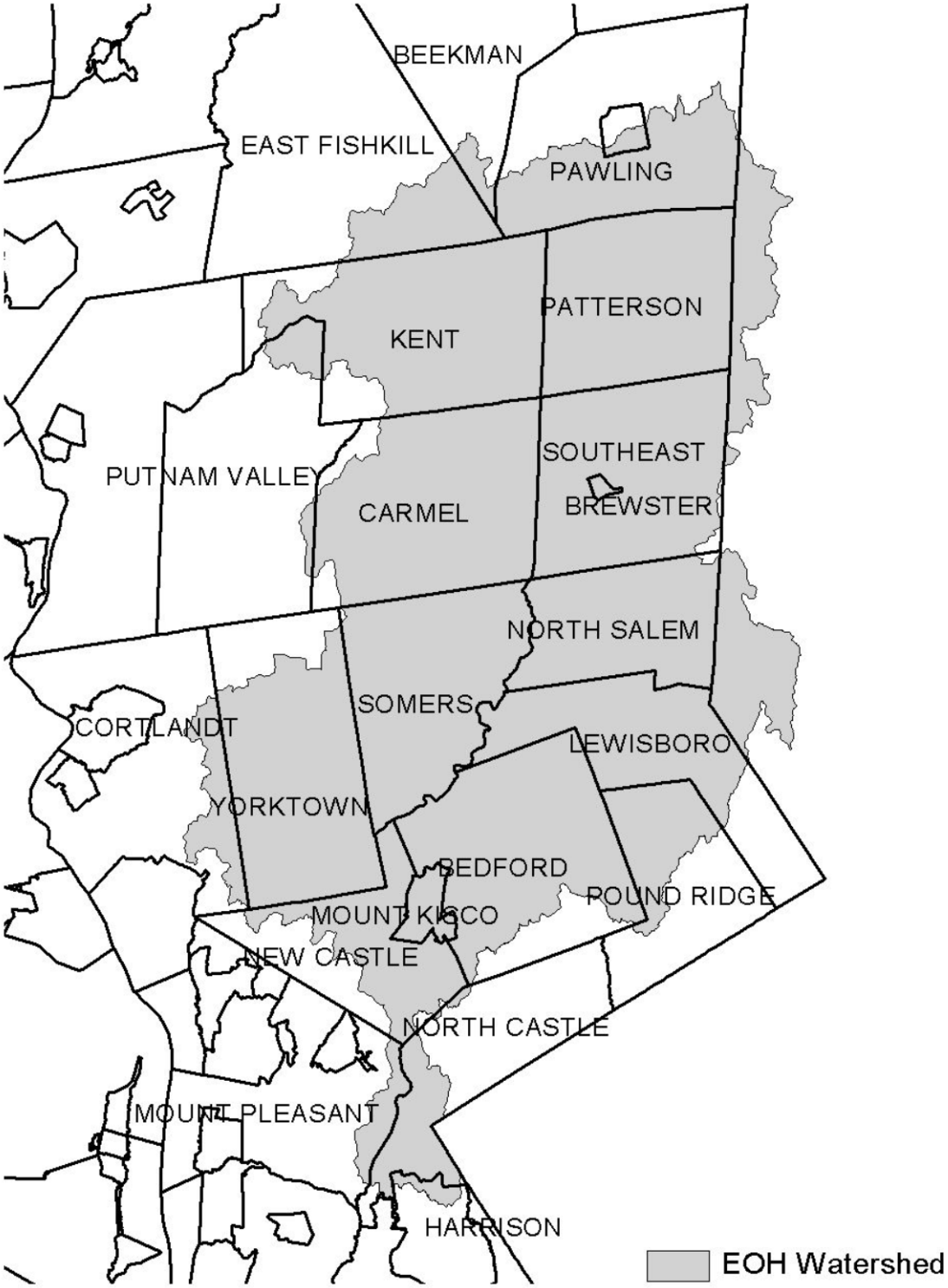


Figure 2 - Onondaga Lake Watershed



Figure 3 - Greenwood Lake Watershed

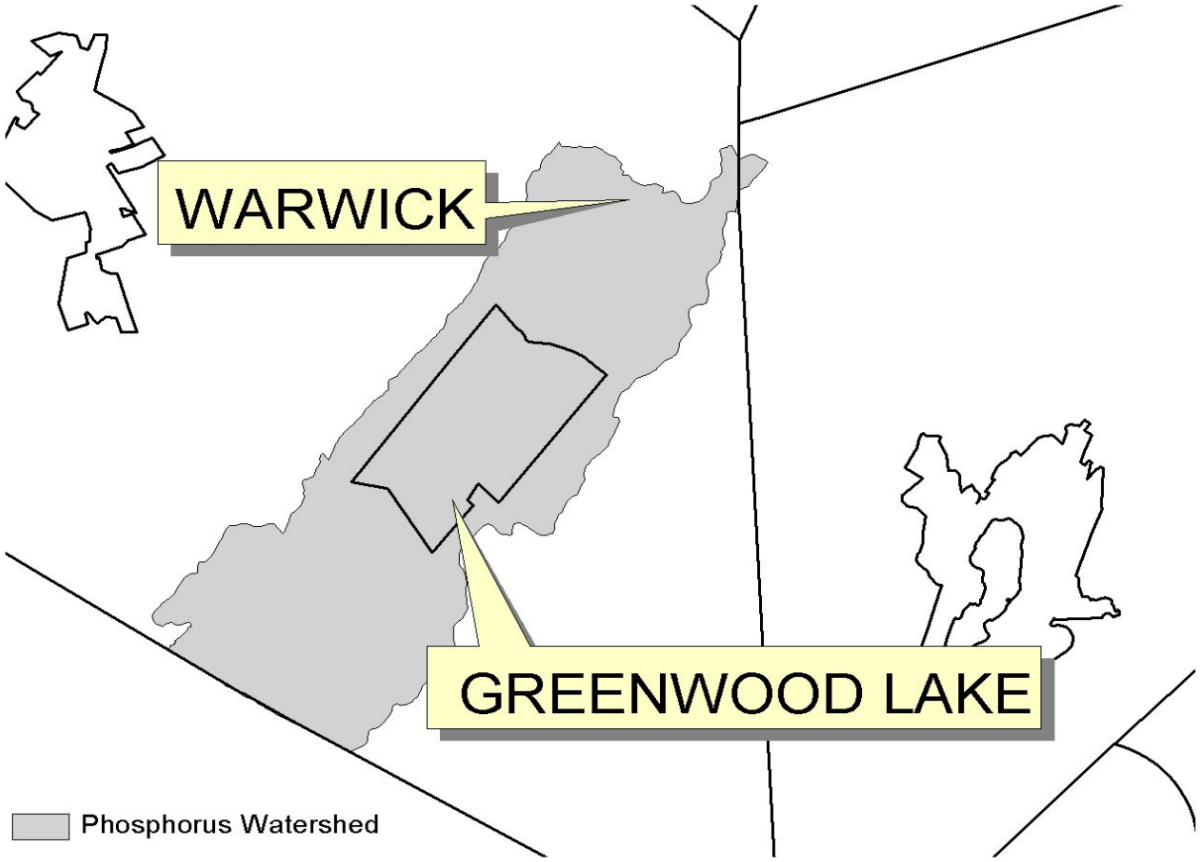


Figure 4 - Oscawana Lake Watershed

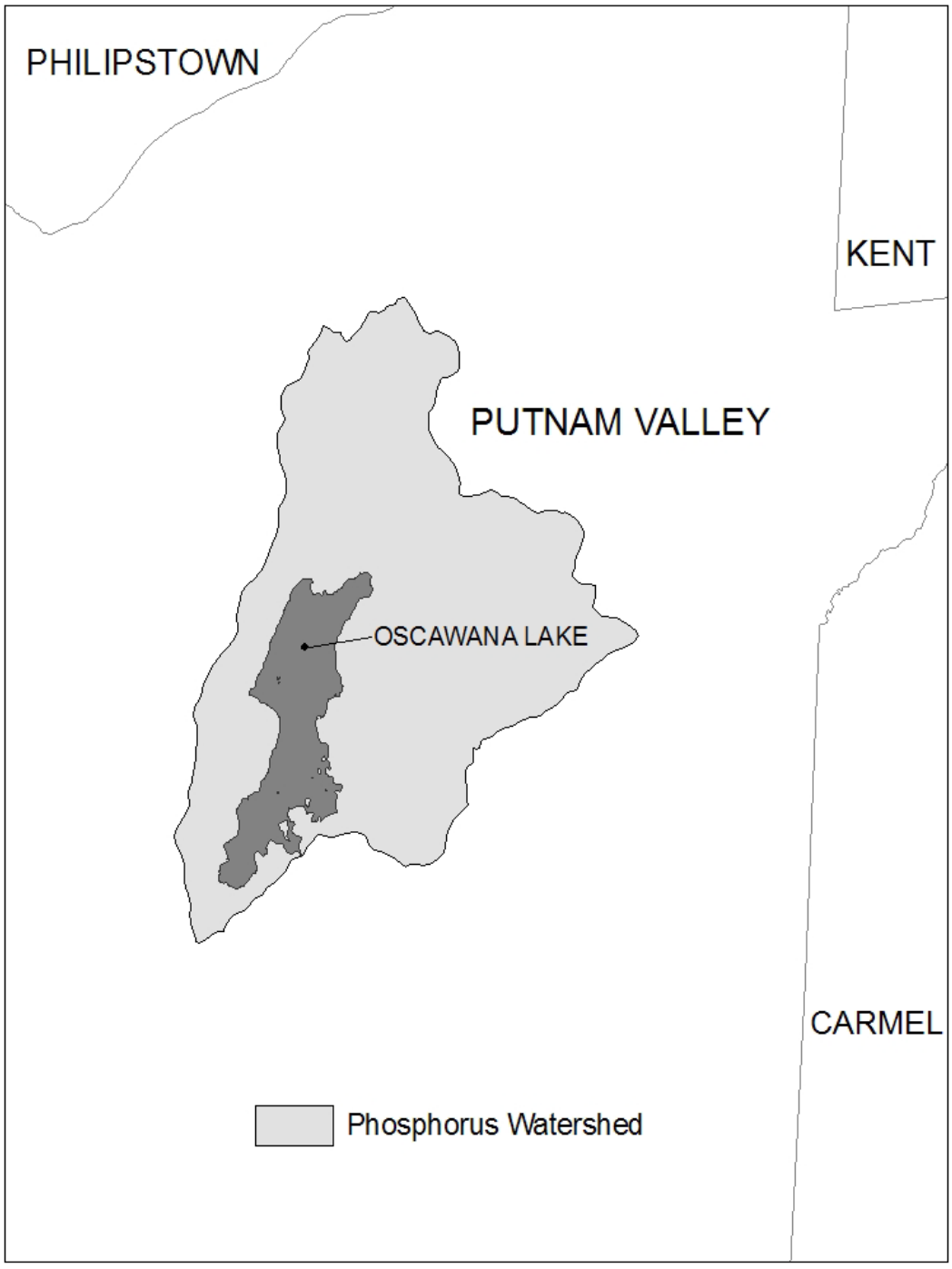
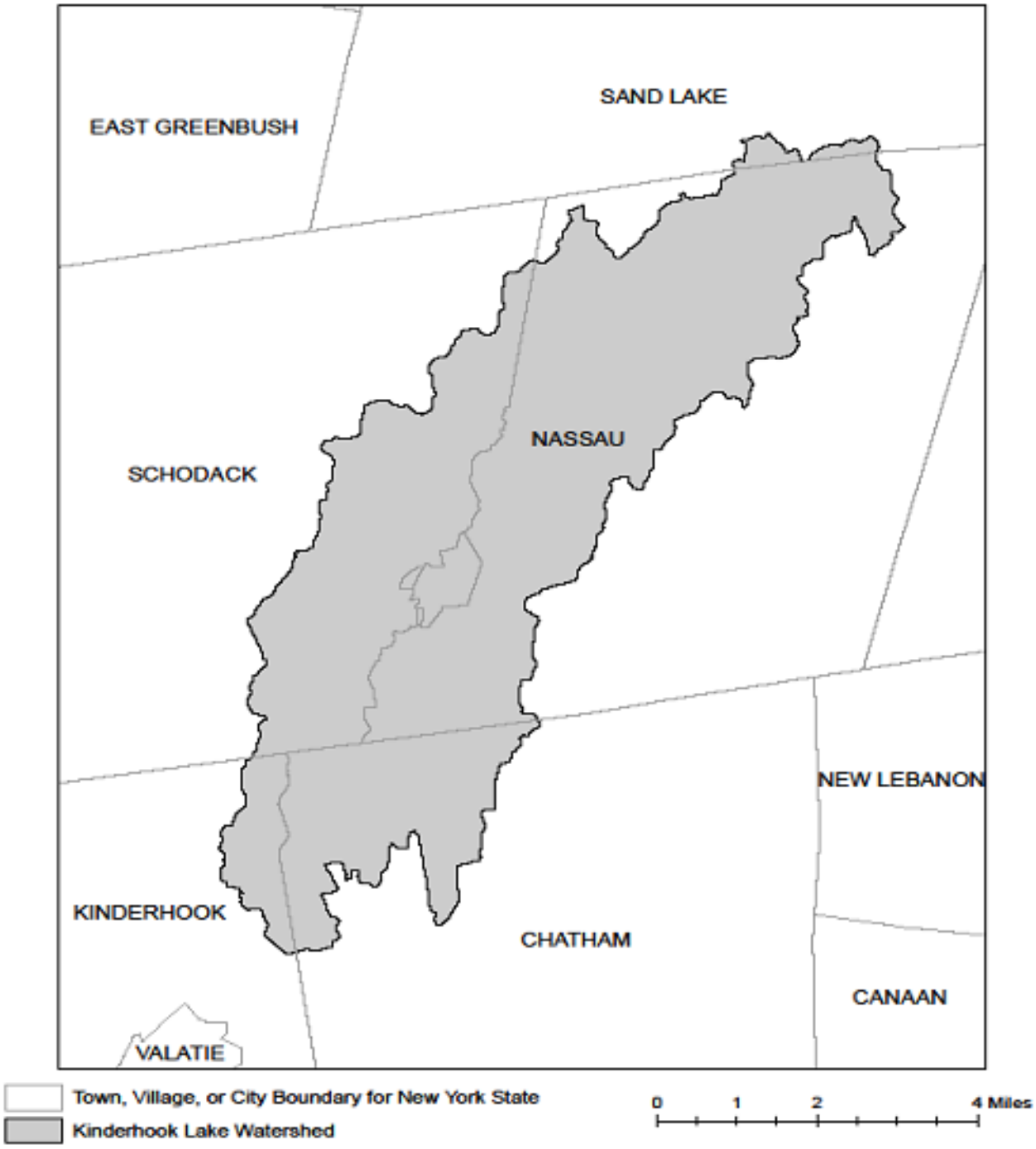


Figure 5 - Kinderhook Lake Watershed



APPENDIX D – Impaired Waterbodies (by Construction Related Pollutants)

List of waterbodies impaired by *pollutants* related to *construction activity*, including turbidity, silt/sediment, and nutrients (e.g. nitrogen, phosphorus). This list is a subset of "The Final New York State 2018 Section 303(d) List of Impaired Waters Requiring a TMDL" dated June 2020.

County	Waterbody	Pollutant
Albany	Ann Lee (Shakers) Pond, Stump Pond (1201-0096)	Phosphorus
Albany	Lawsons Lake (1301-0235)	Phosphorus
Allegany	Amity Lake, Saunders Pond (0403-0054)	Phosphorus
Allegany	Andover Pond (0403-0056)	Phosphorus
Bronx	Reservoir No.1/Lake Isle (1702-0075)	Phosphorus
Bronx	Van Cortlandt Lake (1702-0008)	Phosphorus
Broome	Blueberry, Laurel Lakes (1404-0033)	Phosphorus
Broome	Fly Pond, Deer Lake (1404-0038)	Phosphorus
Broome	Minor Tribs to Lower Susquehanna (0603-0044)	Phosphorus
Broome	Whitney Point Lake/Reservoir (0602-0004)	Phosphorus
Cattaraugus	Allegheny River/Reservoir (0201-0023)	Phosphorus
Cattaraugus	Beaver Lake/Alma Pond (0201-0073)	Phosphorus
Cattaraugus	Case Lake (0201-0020)	Phosphorus
Cattaraugus	Linlyco/Club Pond (0201-0035)	Phosphorus
Cayuga	Duck Lake (0704-0025)	Phosphorus
Cayuga	Owasco Inlet, Upper, and tribs (0706-0014)	Nutrients
Chautauqua	Chadakoin River and tribs (0202-0018)	Phosphorus
Chautauqua	Hulburt/Clymer Pond (0202-0079)	Phosphorus
Chautauqua	Middle Cassadaga Lake (0202-0002)	Phosphorus
Clinton	Great Chazy River, Lower, Main Stem (1002-0001)	Silt/Sediment
Columbia	Robinson Pond (1308-0003)	Phosphorus
Cortland	Dean Pond (0602-0077)	Phosphorus
Dutchess	Fallkill Creek (1301-0087)	Phosphorus
Dutchess	Hillside Lake (1304-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Silt/Sediment
Erie	Beeman Creek and tribs (0102-0030)	Phosphorus
Erie	Delaware Park Pond (0101-0026)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Silt/Sediment
Erie	Green Lake (0101-0038)	Phosphorus
Erie	Little Sister Creek, Lower, and tribs (0104-0045)	Phosphorus
Erie	Murder Creek, Lower, and tribs (0102-0031)	Phosphorus

Erie	Rush Creek and tribs (0104-0018)	Phosphorus
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Phosphorus
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Phosphorus
Erie	Scajaquada Creek, Upper, and tribs (0101-0034)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Silt/Sediment
Genesee	Bigelow Creek and tribs (0402-0016)	Phosphorus
Genesee	Black Creek, Middle, and minor tribs (0402 0028)	Phosphorus
Genesee	Black Creek, Upper, and minor tribs (0402-0048)	Phosphorus
Genesee	Bowen Brook and tribs (0102-0036)	Phosphorus
Genesee	LeRoy Reservoir (0402-0003)	Phosphorus
Genesee	Mill Pond (0402-0050)	Phosphorus
Genesee	Oak Orchard Cr, Upper, and tribs (0301-0014)	Phosphorus
Genesee	Oatka Creek, Middle, and minor tribs (0402-0031)	Phosphorus
Genessee	Tonawanda Cr, Middle, Main Stem (0102-0002)	Phosphorus
Greene	Schoharie Reservoir (1202-0012)	Silt/Sediment
Greene	Sleepy Hollow Lake (1301-0059)	Silt/Sediment
Herkimer	Steele Creek tribs (1201-0197)	Phosphorus
Herkimer	Steele Creek tribs (1201-0197)	Silt/Sediment
Kings	Hendrix Creek (1701-0006) 18	Nitrogen
Kings	Prospect Park Lake (1701-0196)	Phosphorus
Lewis	Mill Creek/South Branch, and tribs (0801-0200)	Nutrients
Livingston	Christie Creek and tribs (0402-0060)	Phosphorus
Livingston	Conesus Lake (0402-0004)	Phosphorus
Livingston	Mill Creek and minor tribs (0404-0011)	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs (0402-0033)	Phosphorus
Monroe	Buck Pond (0301-0017)	Phosphorus
Monroe	Cranberry Pond (0301-0016)	Phosphorus
Monroe	Durand, Eastman Lakes (0302-0037)	Phosphorus
Monroe	Lake Ontario Shoreline, Western (0301-0069) 9	Phosphorus
Monroe	Long Pond (0301-0015)	Phosphorus
Monroe	Mill Creek and tribs (0302-0025)	Phosphorus 2
Monroe	Mill Creek/Blue Pond Outlet and tribs (0402-0049)	Phosphorus
Monroe	Minor Tribs to Irondequoit Bay (0302-0038)	Phosphorus
Monroe	Rochester Embayment - East (0302-0002) [9]	Phosphorus
Monroe	Rochester Embayment - West (0301-0068) 9	Phosphorus
Monroe	Shipbuilders Creek and tribs (0302-0026)	Phosphorus 2
Monroe	Thomas Creek/White Brook and tribs (0302-0023)	Phosphorus

Nassau	Bannister Creek/Bay (1701-0380)	Nitrogen
Nassau	Beaver Lake (1702-0152)	Phosphorus
Nassau	Browswere Bay (1701-0383)	Nitrogen
Nassau	Camaans Pond (1701-0052)	Phosphorus
Nassau	East Meadow Brook, Upper, and tribs (1701-0211)	Silt/Sediment
Nassau	East Rockaway Channel (1701-0381)	Nitrogen
Nassau	Glen Cove Creek, Lower, and tribs (1702-0146)	Silt/Sediment
Nassau	Grant Park Pond (1701-0054)	Phosphorus
Nassau	Hempstead Bay, Broad Channel (1701-0032)	Nitrogen
Nassau	Hempstead Lake (1701-0015)	Phosphorus
Nassau	Hewlett Bay (1701-0382)	Nitrogen
Nassau	Hog Island Channel (1701-0220)	Nitrogen
Nassau	Massapequa Creek, Upper, and tribs (1701-0174)	Phosphorus
Nassau	Milburn/Parsonage Creeks, Upp, and tribs (1701-0212)	Phosphorus
Nassau	Reynolds Channel, East (1701-0215) [12]	Nitrogen
Nassau	Reynolds Channel, West (1701-0216) 12	Nitrogen
Nassau	Tidal Tribs to Hempstead Bay (1701-0218)	Nitrogen
Nassau	Tribs (fresh) to East Bay (1701-0204)	Silt/Sediment
Nassau	Tribs (fresh) to East Bay (1701-0204)	Phosphorus
Nassau	Tribs to Smith Pond/Halls Pond (1701-0221)	Phosphorus
Nassau	Woodmere Channel (1701-0219)	Nitrogen
New York	Harlem Meer (1702-0103)	Phosphorus
New York	The Lake in Central Park (1702-0105)	Phosphorus
Niagara	Bergholtz Creek and tribs (0101-0004)	Phosphorus
Niagara	Hyde Park Lake (0101-0030)	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0053) 9	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0072) 9	Phosphorus
Oneida	Ballou, Nail Creeks (1201-0203)	Phosphorus
Onondaga	Ley Creek and tribs (0702-0001) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nitrogen (NH3, NO2)
Onondaga	Onondaga Creek, Lower (0702-0023) 10	Nutrients (phosphorus)
Onondaga	Onondaga Creek, Lower, and tribs (0702-0023)	Turbidity
Onondaga	Onondaga Creek, Middle, and tribs (0702-0004)	Turbidity
Onondaga	Onondaga Creek, Upper, and tribs (0702-0024)	Turbidity
Ontario	Great Brook and minor tribs (0704-0034)	Phosphorus 2
Ontario	Great Brook and minor tribs (0704-0034)	Silt/Sediment

Ontario	Hemlock Lake Outlet and minor tribs (0402-0013)	Phosphorus
Ontario	Honeoye Lake (0402-0032)	Phosphorus
Orange	Brown Pond Reservoir (1303-0013)	Phosphorus
Orange	Lake Washington (1303-0012)	Phosphorus
Orange	Minor Tribs to Middle Wallkill (1306-0061)	Phosphorus
Orange	Monhagen Brook and tribs (1306-0074)	Phosphorus
Orange	Orange Lake (1301-0008) [16]	Phosphorus
Orange	Quaker Creek and tribs (1306-0025)	Phosphorus
Orange	Wallkill River, Middle, Main Stem (1306-0038)	Phosphorus
Orange	Wallkill River, Upper, and Minor tribs (1306-0017)	Phosphorus
Orleans	Glenvwood Lake (0301-0041)	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0070) 9	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0071) 9	Phosphorus
Oswego	Lake Neatahwanta (0701-0018)	Nutrients (phosphorus)
Oswego	Pleasant Lake (0703-0047)	Phosphorus
Putnam	Lost Lake, Putnam Lake (1302-0053)	Phosphorus
Putnam	Minor Tribs to Croton Falls Reservoir (1302-0001)	Phosphorus
Queens	Bergen Basin (1701-0009) 18	Nitrogen
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Nitrogen
Queens	Kissena Lake (1702-0258)	Phosphorus
Queens	Meadow Lake (1702-0030)	Phosphorus
Queens	Shellbank Basin (1701-0001) 18	Nitrogen
Queens	Willow Lake (1702-0031)	Phosphorus
Rensselaer	Nassau Lake (1310-0001)	Phosphorus
Rensselaer	Snyders Lake (1301-0043)	Phosphorus
Richmond	Grassmere Lake/Bradys Pond (1701-0357)	Phosphorus
Rockland	Congers Lake, Swartout Lake (1501-0019)	Phosphorus
Rockland	Rockland Lake (1501-0021)	Phosphorus
Saratoga	Ballston Lake (1101-0036)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Silt/Sediment
Saratoga	Lake Lonely (1101-0034)	Phosphorus
Saratoga	Round Lake (1101-0060)	Phosphorus
Saratoga	Tribs to Lake Lonely (1101-0001)	Phosphorus
Schenectady	Collins Lake (1201-0077)	Phosphorus
Schenectady	Duane Lake (1311-0006)	Phosphorus
Schenectady Lake	Mariaville Lake (1201-0113)	Phosphorus
Schuyler	Cayuta Lake (0603-0005)	Phosphorus

Seneca	Reeder Creek and tribs (0705-0074)	Phosphorus
St.Lawrence	Black Lake Outlet, Black Lake (0906-0001)	Phosphorus
St.Lawrence	Fish Creek and minor tribs (0906-0026)	Phosphorus
Steuben	Smith Pond (0502-0012)	Phosphorus
Suffolk	Agawam Lake (1701-0117)	Phosphorus
Suffolk	Big/Little Fresh Ponds (1701-0125)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Silt/Sediment
Suffolk	Fresh Pond (1701-0241)	Phosphorus
Suffolk	Great South Bay, East (1701-0039)	Nitrogen
Suffolk	Great South Bay, Middle (1701-0040)	Nitrogen
Suffolk	Great South Bay, West (1701-0173)	Nitrogen
Suffolk	Lake Ronkonkoma (1701-0020)	Phosphorus
Suffolk	Mattituck/Marratooka Pond (1701-0129)	Phosphorus
Suffolk	Mill and Seven Ponds (1701-0113)	Phosphorus
Suffolk	Millers Pond (1702-0013)	Phosphorus
Suffolk	Moriches Bay, East (1701-0305)	Nitrogen
Suffolk	Moriches Bay, West (1701-0038)	Nitrogen
Suffolk	Quantuck Bay (1701-0042)	Nitrogen
Suffolk	Shinnecock Bay and Inlet (1701-0033)	Nitrogen
Suffolk	Tidal Tribs to West Moriches Bay (1701-0312)	Nitrogen
Sullivan	Bodine, Mongomery Lakes (1401-0091)	Phosphorus
Sullivan	Davies Lake (1402-0047)	Phosphorus
Sullivan	Evens Lake (1402-0004)	Phosphorus
Sullivan	Pleasure Lake (1402-0055)	Phosphorus
Sullivan	Swan Lake (1401-0063)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Silt/Sediment
Ulster	Ashokan Reservoir (1307-0004)	Silt/Sediment
Ulster	Esopus Creek, Lower, Main Stem (1307-0010) [17]	Turbidity
Ulster	Esopus Creek, Middle, Main Stem (1307-0003) 17	Turbidity
Ulster	Esopus Creek, Upper, and minor tribs (1307-0007)[3]	Silt/Sediment
Ulster	Wallkill River, Lower, Main Stem (1306-0027)	Phosphorus
Warren	Hague Brook and tribs (1006-0006)	Silt/Sediment
Warren	Huddle/Finkle Brooks and tribs (1006-0003)	Silt/Sediment
Warren	Indian Brook and tribs (1006-0002)	Silt/Sediment
Warren	Lake George (1006-0016) and tribs	Silt/Sediment
Warren	Tribs to Lake George, East Shore (1006-0020)	Silt/Sediment
Warren	Tribs to Lake George, Lk.George Village (1006-0008)	Silt/Sediment

Washington	Wood Cr/Champlain Canal and tribs (1005-0036)	Phosphorus
Westchester	Lake Katonah (1302-0136)	Phosphorus
Westchester	Lake Lincolndale (1302-0089)	Phosphorus
Westchester	Lake Meahagh (1301-0053)	Phosphorus
Westchester	Lake Mohegan (1301-0149)	Phosphorus
Westchester	Lake Shenorock (1302-0083)	Phosphorus
Westchester	Mamaroneck River, Lower (1702-0071)	Silt/Sediment
Westchester	Mamaroneck River, Upp, & minor tribs (1702-0123)	Silt/Sediment
Westchester	Saw Mill River (1301-0007)	Phosphorus
Westchester	Saw Mill River, Middle, and tribs (1301-0100)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Silt/Sedimnt
Westchester	Silver Lake (1702-0040)	Phosphorus
Westchester	Teatown Lake (1302-0150)	Phosphorus
Westchester	Truesdale Lake (1302-0054)	Phosphorus
Westchester	Wallace Pond (1301-0140)	Phosphorus

APPENDIX E – List of NYSDEC Regional Offices

Region	Covering the following counties:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) Permit Administrators	DIVISION OF WATER (DOW) Water (SPDES) Program
1	Nassau and Suffolk	50 Circle Road Stony Brook, NY 11790 Tel. (631) 444-0365	50 Circle Road Stony Brook, NY 11790-3409 Tel. (631) 444-0405
2	Bronx, Kings, New York, Queens and Richmond	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4997	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4933
3	Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester	21 South Putt Corners Road New Paltz, NY 12561-1696 Tel. (845) 256-3059	220 White Plains Road, Suite 110 Tel. (914) 428 - 2505
4	Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2069	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2045
5	Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington	1115 State Route 86, Po Box 296 Ray Brook, NY 12977-0296 Tel. (518) 897-1234	232 Golf Course Road Warrensburg, NY 12885-1172 Tel. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7438	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7165	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7070

APPENDIX F – SWPPP Preparer Certification Form

The SWPPP Preparer Certification Form required by this permit begins on the following page.

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:

eNOI Submission ID:

Owner/Operator Name:

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SWPPP Preparer First Name | MI | SWPPP Preparer Last Name

Signature | Date

APPENDIX G – MS4 SWPPP Acceptance Form

The MS4 SWPPP Acceptance Form required by this permit begins on the following page.

MS4 SWPPP Acceptance Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

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

MS4 SWPPP Acceptance Form - continued

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

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in section II. of this form has been reviewed and meets the substantive requirements in the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP). Note: The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 Operator does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name[1]:

Title/Position:

Signature:

Date:

VI. Additional Information

[1] Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.

(NYSDEC - MS4 SWPPP Acceptance Form - January 2025)

APPENDIX H – NYCDEP SWPPP Acceptance/Approval Form

The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval form required by this permit begins on the following page.

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis
59-17 Junction Blvd., 9th Floor; Flushing, NY 11373

SWPPP Acceptance/Approval

Application Number:

I. Project Owner/Operator Information

1. Owner/Operator Name:
2. Contact Person:
3. Street Address:
4. City/State/Zip:

II. Project Site Information

5. Project/Site Name:
6. Street Address:
7. City/State/Zip:

III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance/Approval

8. SWPPP Reviewed by:
9. Title/Position: /
10. Date Final SWPPP Reviewed and Accepted:
11. Acceptance/Approval Expiration Date:

IV. Regulated MS4 Information for projects that require coverage under the NY State Pollution Discharge Elimination System General Permit for Stormwater Discharges from Construction Activity

12. Name of MS4: *CITY OF NEW YORK*
13. MS4 SPDES Permit Identification Number: *NY-0287890*
14. Contact Person:
15. Street Address: *59-17 Junction Blvd. 9th Floor*
16. City/State/Zip: *Flushing, NY 11373*
17. Telephone Number:

Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.

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

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s).

Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Conditions of Acceptance/Approval and Additional Information

Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.

APPENDIX I – MS4 No Jurisdiction Form

The MS4 No Jurisdiction Form required by this permit begins on the following page.

MS4 No Jurisdiction Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. eNOI Submission ID:

III. Traditional Land Use Control MS4 Operator Information

a. Name of MS4 Operator:

b. MS4 SPDES Permit ID Number: NYR20A

c. Street Address:

d. City/State/Zip:

e. Telephone Number:

IV. Certification Statement

In accordance with CGP Part I.D.2.b.ii.3., I hereby certify that the Traditional Land Use Control MS4 Operator identified in section III. of this form does not have review authority over the construction project identified in section II. of this form, which is owned/operated by the entity identified in section I. of this form. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.:

b. Title/Position:

c. Signature:

d. Date:

APPENDIX J – Owner/Operator Certification Form

The Owner/Operator Certification Form required by this permit begins on the following page.

Owner/Operator Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.

Project/Site Name: _____

eNOI Submission ID: _____

eNOI Submitted by: ☐ **Owner/Operator** ☐ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner/Operator First Name MI Owner/Operator Last Name

_____

Signature

_____

Date

Attachment I: Ash Landfill Reclamation



CHANGES REQUIRED FOR THE SWPPP FORM

SPDES Permit ID #:					
Project/Site Name:	Southtowns Advanced Wastewater Treatment Facility Expansion Project				
Project Street/Location:	3690 Lake Shore Road				
City/Town/Village:	Hamburg	**State:**	NY	**Zip:**	14219
County:	Erie	**Regulated, Traditional MS4 District?**	N	**Name:**	--

The SWPPP must be kept current at all times to accurately represent the erosion and sediment controls being used during construction and all post-construction stormwater management controls. The SWPPP must be updated:

a) Whenever the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the site;
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 pollutants,
c) To address issues or deficiencies identified during an inspection by the Qualified Inspector, the NYSDEC, or MS4;
d) To document the final construction conditions.

Changes Required: The ash landfill reclamation area (landfill) is being added to the overall project regarding erosion and sediment control (ESC). The ESC plans for the landfill have been added to Attachment E. The landfill area discharges to the Southtowns Facility and is technically covered under the Facility's SPDES permit. As such, no official changes to the limits of disturbance, NOI, or other technical data is required. The construction area will require ESC protection and monitoring and the ESC measures and inspections will be covered under this SWPPP. The Qualified Inspector will be...

TBD, will see if Kandey ends up being the contractor for this addiitonal work.

Reason for Changes: The reclamation of the ash landfill on the west side of the property has been added to the scope of this project. Removing the landfill will allow the facility to discontinue post-closure care and make the area available for soil that is being excavated from other portions of the site.

While the area is technically not covered under this SPDES permit, the need for ESC measures and inspections remain as it is part of the overall construction at the site; therefore, the area is being incorporated into this existing SWPPP.

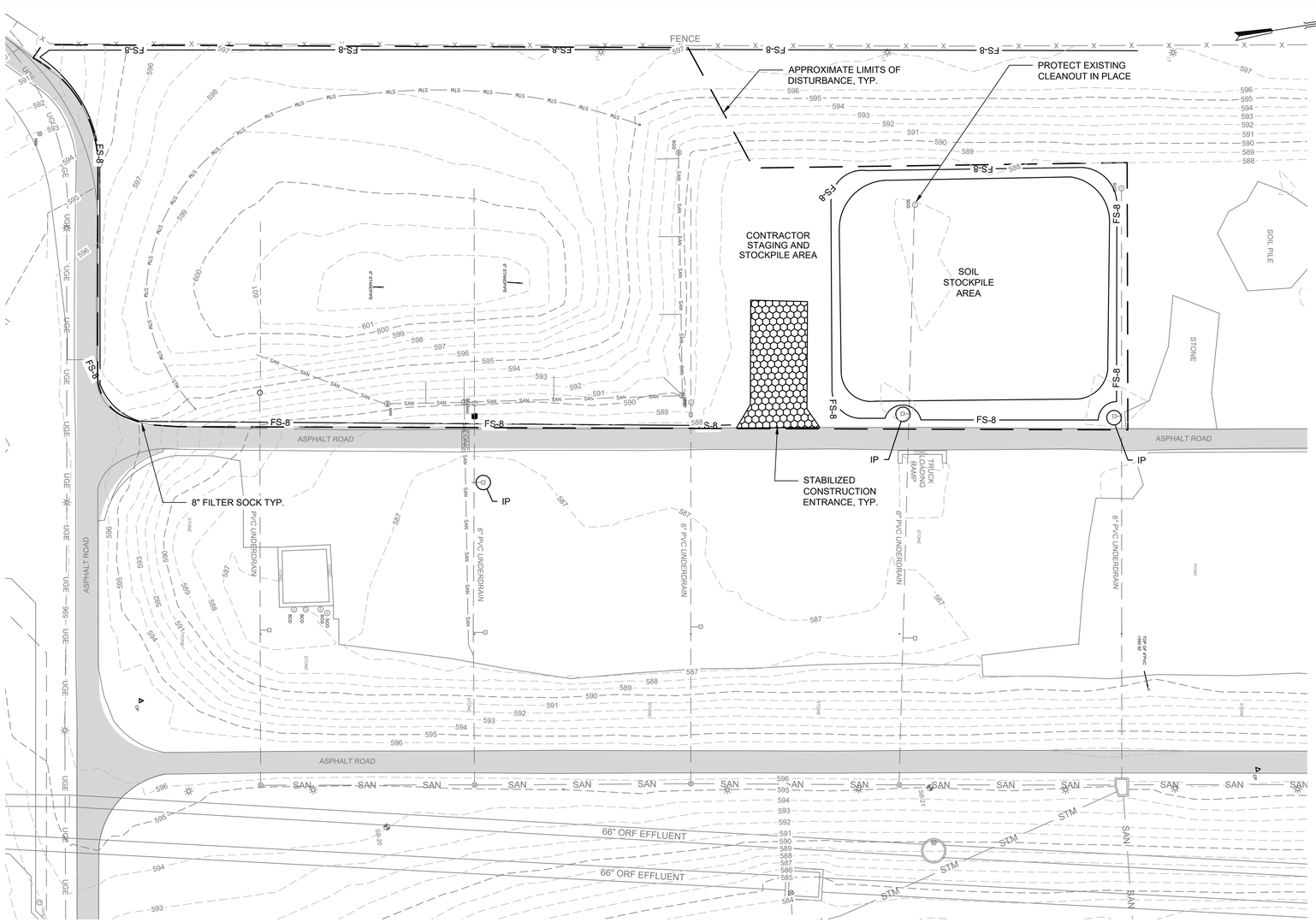
Signature of Inspector _____ Date _____

Name of Inspector (Print) _____

Certification of Completion

Contractor Project Manager _____ Date _____

Additional documentation, including site plans, design calculations, etc., as necessary, to be included with this document in the SWPPP.



EROSION & SEDIMENT CONTROL PLAN

1"=30' 30 0 30

LEGEND

- FS-8 — 8" FILTER SOCK
- APPROXIMATE LIMITS OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE
- POTENTIAL STAGING AREA
- IP — INLET PROTECTION

TURF ESTABLISHMENT SEED				
COMMON NAME	BOTANICAL NAME	VARIETY	% BY WEIGHT	MULCH
FINE FESCUE (MUST INCLUDE CREEPING RED AND HARD FESCUE)	FESTUCA RUBRA VAR. & FESTUCA LONGIFOLIA	COMMERCIAL	10-25	WOOD FIBER HYDROMULCH OR OTHER NYSDOT APPROVED SPRAYALBE PRODUCTS FOR EROSION CONTROL MAY BE UTILIZED
PERRENIAL RYEGRASS (2 VAR. MIN.)	LOLIUM PERENNE	COMMERCIAL "TURF" TYPE	10-40	
TALL FESCUE (2 VAR. MIN., SELECTED FOR SALT TOLERANCE)	FESTUCA ARUNDINACEA	COMMERCIAL "TURF" TYPE	24-45	
TICKLEGRASS (OR, IF UNAVAILABLE, REDTOP)	AGROSTIS SCABRA (OR AGROSTIS ALBA)	COMMERCIAL	5-10	
ALKALIGRASS (WEEPING PREFERRED)	PUCCINELLIA DISTANS	COMMERCIAL	15-40	

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED, INSPECTED, MONITORED, AND MAINTAINED AS SPECIFIED IN THE PROJECT SPECIFICATIONS, THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND THE SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY, GP-0-20-01 (GENERAL PERMIT).
2. WHERE THERE ARE INCONSISTENCIES BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS, THE GENERAL PERMIT, AND THE SWPPP, THE MORE STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
3. IN ACCORDANCE WITH THE GENERAL PERMIT AND THE SWPPP, THE CONTRACTOR SHALL DESIGNATE A TRAINED CONTRACTOR THAT WILL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL MEASURES, THE DAILY INSPECTIONS OF THE PROJECT SITE, AND, THE MAINTENANCE AND MODIFICATION OF EROSION AND SEDIMENT CONTROL MEASURES. THE NAME AND QUALIFICATIONS (TRAINING AND CERTIFICATION) OF THIS INDIVIDUAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF THE PROJECT. THEIR CERTIFICATION DOCUMENTS SHALL BE INCLUDED AS PART OF THE SWPPP.
4. THE CONTRACTOR IS ALSO REQUIRED TO PROVIDE THE QUALIFIED INSPECTOR, AS REQUIRED BY THE GENERAL PERMIT AND SWPPP. THE QUALIFIED INSPECTOR WILL BE REQUIRED TO CONDUCT THE WEEKLY INSPECTIONS, IN ACCORDANCE WITH THE SWPPP, AND PROVIDE INSPECTION REPORTS TO THE ENTIRE PROJECT TEAM. THE NAME AND QUALIFICATION OF THE THE QUALIFIED INSPECTOR SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
5. THE TRAINED CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ANY FIELD CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE CONTRACT DOCUMENTS. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO SUBMIT A MODIFIED EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL PRIOR TO IMPLEMENTING FIELD CHANGES.
6. THE SWPPP SHALL BE AMENDED AND RE-CERTIFIED BY A LICENSED OR CERTIFIED PROFESSIONAL IF THERE ARE CHANGES IN THE DESIGN OR CONSTRUCTION ACTIVITIES THAT MAY HAVE A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF SEDIMENT OR POLLUTANTS INTO WATERS OF THE U.S. OR VARIATIONS IN WATER QUALITY OR QUANTITY TREATMENT REQUIRED. COSTS ASSOCIATED WITH THE AMENDMENT OR RE-CERTIFICATION SHALL BE CONSIDERED EXTRA WORK AND REQUIRE AUTHORIZATION FROM THE ENGINEER AND OWNER.
7. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL THE WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE SITE. MODIFICATIONS TO AND/OR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED DEPENDING ON THE ACTUAL SITE CONDITIONS, SEQUENCE OF OPERATIONS, AND METHODS OF WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHMENT OF STAGING AND ACCESS AREAS AS NECESSARY TO PERFORM THE WORK, WITH THE APPROVAL OF THE ENGINEER AND OWNER. AVAILABLE AREAS ARE DEPICTED ON THE PLANS. ADDITIONAL AREAS NEED TO BE NEGOTIATED WITH THE ON-SITE FACILITY OPERATOR.
10. THE CONTRACTOR SHALL COVER TEMPORARY STOCKPILES OF ERODIBLE MATERIAL (SUCH AS TOPSOIL OR EARTH FILL) WITH POLY SHEETING, OR RING THE STOCKPILES WITH SILT FENCE TO CONTROL EROSION. POLY SHEETING SHALL COMPLETELY COVER THE STOCKPILE AND BE SECURELY ANCHORED AT ALL TIMES. ANY POLY SHEETING OR SILT FENCE THAT IS DAMAGED SHALL BE PROMPTLY REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER. RINGED STOCKPILES UNUSED OR EXPECTED TO BE UNUSED FOR LONGER THAN 14 CALENDAR DAYS SHALL BE IMMEDIATELY STABILIZED WITH APPROPRIATE MEASURES.
11. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED WHEREVER CONSTRUCTION VEHICLES AND EQUIPMENT (INCLUDING PICK-UP TRUCKS) TRAVERSE FROM A PAVED SURFACE TO AN EARTH SURFACE. PRELIMINARY LOCATIONS ARE NOTED ON THE PLANS. ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE REQUIRED AT ALTERNATE LOCATIONS DEPENDING ON THE CONTRACTOR'S METHODS AND SEQUENCE OF OPERATIONS.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEARING OF ANY SEDIMENT TRACKED ON TO PAVED ROADWAYS THROUGHOUT THE SITE. WASHING OF THE SEDIMENT INTO ADJACENT WATERWAYS, DRAINAGE SWALES, STORM DRAIN SYSTEM, OR WETLANDS IS NOT PERMITTED. THE PAVED AREAS SHALL BE KEPT IN A BROOM SWEPT CONDITION.
13. DUMP TRUCKS HAULING MATERIAL TO AND FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPAULIN.
14. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE FOR WHICH THEY ARE INTENDED AND SHALL REMAIN IN PLACE UNTIL SOILS ARE PERMANENTLY STABILIZED.
15. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF FROM DISTURBED AREAS IS DIVERTED TO APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL DEVICES BEFORE ENTERING A WATER BODY, STORM DRAIN SYSTEM, OR WETLAND.
16. CLEARING, GRUBBING, AND VEGETATION REMOVAL SHALL BE LIMITED TO NO MORE THAN THAT INDICATED ON THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
17. THE CONTRACTOR MAY INSTALL TEMPORARY STABLE HAUL PATHS WHERE NECESSARY TO ENTER/EXIT AREAS OF PROPOSED WORK. TEMPORARY HAUL PATHS MUST BE REMOVED AND RE-GRADED AND THE AREA STABILIZED AND RESTORED IMMEDIATELY AFTER THE PATH IS NO LONGER NEEDED.
18. DEWATERING OF EXCAVATION AREAS SHALL BE PUMPED TO EITHER A PORTABLE SEDIMENT TANK, SEDIMENT FILTER BAG, OR UTILIZE A SEDIMENT FILTER PUMP. SEDIMENT FILTER BAGS SHALL BE PLACED IN AN UPLAND AREA AND DISPOSED OF PROPERLY.
19. UNDER NO CONDITION SHALL DISCONTINUED CONSTRUCTION ACTIVITIES IN AREAS WITH SOIL DISTURBANCES BE LEFT OR A PERIOD OF GREATER THAN 14 CALENDAR DAYS WITHOUT TEMPORARY STABILIZING THOSE AREAS WITH TEMPORARY SEED AND MULCH. MULCH SHALL BE MAINTAINED UNTIL SUITABLE VEGETATIVE COVER IS ESTABLISHED.
20. UNLESS DIRECTED OTHERWISE, ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED AND MULCHED FOR TURF ESTABLISHMENT.
21. ALL GRADED SURFACES WITH A FINISHED SLOPE OF 3H:1V OR GREATER SHALL BE STABILIZED WITH A TEMPORARY (6 TO 12 MONTH) BIODEGRADABLE ROLLED EROSION CONTROL PRODUCT.
22. WHEN THE PROJECT IS COMPLETED AND FULLY STABILIZED, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. ALL SEDIMENT REMOVED FROM EROSION CONTROL DEVICES SHALL BE DISPOSED OF ON AN APPROVED SITE WHERE IT CANNOT BE WASHED INTO ANY WATERS.
23. 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 PREVIOUS 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 STRUCTURE, CONCRETE OR PAVEMENT.

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

100% DESIGN TECHNICAL REVIEW
NOT FOR CONSTRUCTION

BID READY
FOR FINAL REGULATORY APPROVAL
WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
ASH LANDFILL RECLAMATION

CONTRACT NO. 82

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: 100% SUBMITTAL

PROJECT NO.: 30119430
DATE: APRIL 2025
DESIGNED BY: M.TERRANA
DRAWN BY: T. BROWN
CHECKED BY: J. DAVIDSON

SHEET TITLE

CIVIL

EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 30'
0 1
BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-05

SHEET NO.: 9 OF 9

User:MICHAEL.TERRANA Spec-AUS-ACSMOD File:Y:\JMDAVIDSON PROJECTS - ACTIVE\122202 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - LANDFILL\3.3 CIVIL\C01-05.DWG Scale:1:1 SavedDate:3/27/2025 Time:15:09 Plot Date: Michael Terrana; 3/27/2025; 15:11 ; Layout:C01-05

Attachment J: ORF Influent and Oxygen Feed Replacement



CHANGES REQUIRED FOR THE SWPPP FORM

SPDES Permit ID #:	NYR11L835				
Project/Site Name:	Southtowns Advanced Wastewater Treatment Facility Expansion Project				
Project Street/Location:	3690 Lake Shore Road				
City/Town/Village:	Hamburg	**State:**	NY	**Zip:**	14219
County:	Erie	**Regulated, Traditional MS4 District?**	N	**Name:**	--

The SWPPP must be kept current at all times to accurately represent the erosion and sediment controls being used during construction and all post-construction stormwater management controls. The SWPPP must be updated:

a) Whenever the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the site;
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 pollutants,
c) To address issues or deficiencies identified during an inspection by the Qualified Inspector, the NYSDEC, or MS4;
d) To document the final construction conditions.

Changes Required: The majority of this work is in a trench and there is no increase in impervious area. The work is within the proposed Phase 2 limits of disturbance. As such, no official changes to the limits of disturbance, NOI, or other technical data is required. The ESC plans for the ORF influent and oxygen feed replacement have been added to Attachment E. The Qualified Inspector will be...

Reason for Changes: The overflow retention facility (ORF) influent and oxygen feed replacement was included in the scope of Phase 2. Now, the work is being bid as a separate contract from Phase 2.

The need for ESC measures and inspections remain as it is part of the overall construction at the site; therefore, the area is being incorporated into this existing SWPPP.

Signature of Inspector

Date

Name of Inspector (Print)

Certification of Completion

Contractor Project Manager

Date

Additional documentation, including site plans, design calculations, etc., as necessary, to be included with this document in the SWPPP.

Attachment K: Phase 2 Revised Plans



CHANGES REQUIRED FOR THE SWPPP FORM

SPDES Permit ID #: NYR11L835

Project/Site Name: Southtowns Advanced Wastewater Treatment Facility Expansion Project

Project Street/Location: 3690 Lake Shore Road

City/Town/Village: Hamburg **State:** NY **Zip:** 14219

County: Erie **Regulated, Traditional MS4 District?** N **Name:** --

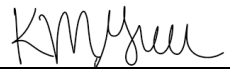
The SWPPP must be kept current at all times to accurately represent the erosion and sediment controls being used during construction and all post-construction stormwater management controls. The SWPPP must be updated:

a) Whenever the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the site;
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 pollutants,
c) To address issues or deficiencies identified during an inspection by the Qualified Inspector, the NYSDEC, or MS4;
d) To document the final construction conditions.

Changes Required: Updated SWPPP reflecting detailed design of Phase 2 work.

Phase 1 work is substantially complete. Previous changes to SWPPP work including landfill and ORF influent work are also substantially complete.

Reason for Changes: Final design of Phase 2 work.



9/9/2026

Signature of SWPPP Preparer — Date

Krista Greer, PE, CFM

Name of SWPPP Preparer (print)

Certification of Completion

Contractor Project Manager — Date

Additional documentation, including site plans, design calculations, etc., as necessary, to be included with this document in the SWPPP.

Phase 2 Plans Incorporated by Reference. Refer to Complete Set of Construction Documents.

EARTHWORK AND EXCAVATED MATERIALS MANAGEMENT NOTES:

1. ANALYTICAL TESTING WAS PERFORMED BY THE OWNER AS PRELIMINARY SCREENING FOR PORTIONS OF THE PROJECT WORK AREA. THE PREVIOUS SAMPLING INFORMATION IS PROVIDED TO THE CONTRACTOR FOR INFORMATION ONLY. SEE DWG. C01-01 "PHASE 1 SOIL SCREENING SOIL PROBE LOCATIONS" TABLE FOR LOCATIONS OF PREVIOUS SCREENING EFFORTS.

2. CONTRACTOR SHALL ASSUME THAT EXCAVATED MATERIAL GENERATED BY THE WORK THAT CANNOT BE PLACED AS FILL ON SITE AS PART OF THE FINAL GRADING PLAN, IS CONTAMINATED NON-HAZARDOUS MATERIAL REQUIRING DISPOSAL AT A PERMITTED LANDFILL OR OTHER FACILITY APPROVED TO ACCEPT THE MATERIAL, UNLESS CONTRACTOR-PERFORMED WASTE CHARACTERIZATION DEMONSTRATES OTHERWISE.

3. WASTE CHARACTERIZATION OF EXCAVATED MATERIAL TO BE REMOVED FROM THE SITE SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 31 23 05 - EXCAVATION AND FILL, REQUIREMENTS OF THE PROPOSED RECEIVING FACILITY, AND APPLICABLE LAWS AND REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SAMPLING, ANALYTICAL TESTING, WASTE PROFILING, FACILITY ACCEPTANCE, TRANSPORTATION DOCUMENTATION, DISPOSAL MANIFESTS OR WEIGHT TICKETS, AND OTHER DOCUMENTATION REQUIRED FOR OFF-SITE DISPOSAL AND INCLUDE ALL COSTS FOR THE WORK IN THE LUMP SUM BASE BID FOR THE PROJECT.

4. IF CONTRACTOR-PERFORMED WASTE CHARACTERIZATION DEMONSTRATES THAT EXCAVATED MATERIAL TO BE REMOVED FROM THE SITE IS ACCEPTABLE FOR BENEFICIAL REUSE, UNRESTRICTED DISPOSAL, OR OTHER NON-LANDFILL DISPOSITION, CONTRACTOR MAY MANAGE AND DISPOSE OF SUCH MATERIAL IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS AND REQUIREMENTS OF THE RECEIVING FACILITY. CONTRACTOR SHALL SUBMIT SUPPORTING ANALYTICAL DATA AND FACILITY ACCEPTANCE DOCUMENTATION PRIOR TO REMOVING MATERIAL FROM THE SITE.

5. BASED ON PREVIOUS WORK WITHIN THE PROJECT BOUNDARY IT IS KNOWN THAT SLAG AND SLAG-CONTAINING FILL WILL BE ENCOUNTERED DURING EXCAVATION. SLAG AND SLAG-CONTAINING FILL SHALL BE SEGREGATED FROM OTHER EXCAVATED MATERIALS TO THE EXTENT PRACTICAL FOR REUSE AS GENERAL FILL ON SITE. NO SLAG OR SLAG-CONTAINING FILL SHALL BE REMOVED FROM THE SITE WITHOUT CONTRACTOR-PERFORMED WASTE CHARACTERIZATION AND OWNER/ENGINEER ACCEPTANCE OF THE PROPOSED OFF-SITE DISPOSITION.

6. SUBJECT TO OWNER ACCEPTANCE, SLAG AND SLAG-CONTAINING FILL MAY BE REUSED ON SITE ONLY AS GENERAL FILL IN AREAS WHERE GENERAL FILL IS PERMITTED BY SECTION 31 23 05 AND THE CONTRACT DRAWINGS.

7. SEE CONCRETE WALL BACKFILL DETAIL ON DWG. S00-06 FOR MINIMUM REQUIREMENTS FOR SELECT GRANULAR BACKFILL AROUND AND UNDER NEW STRUCTURES. GENERAL FILL SHALL NOT BE USED BENEATH STRUCTURES, FOUNDATIONS, CHAMBERS, MANHOLES, PAVEMENTS, SIDEWALKS, UTILITIES, PIPE BEDDING, PIPE EMBEDMENT, OR AREAS DESIGNATED FOR SELECT FILL.

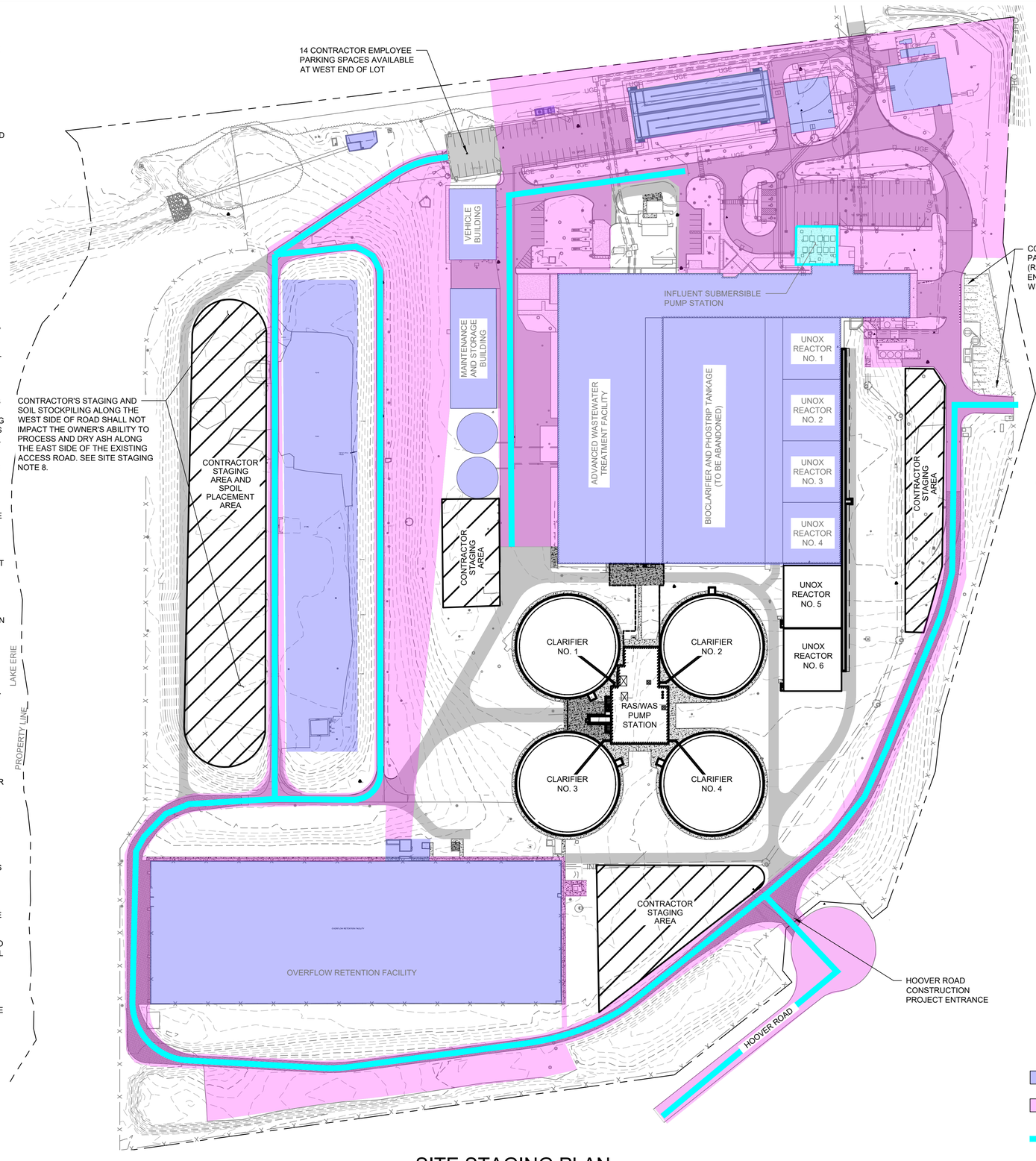
8. THE OWNER HAS MADE THE AREA LABELED "CONTRACTOR STAGING AREA AND SPOIL PLACEMENT AREA" NOTED ON THIS PLAN AVAILABLE FOR TEMPORARY STOCKPILING OF EXCAVATED MATERIAL DURING CONSTRUCTION AND FOR PERMANENT PLACEMENT OF SOME EXCESS MATERIAL AS PART OF FINAL GRADING AS SHOWN ON THE GRADING PLANS.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, AS PART OF THE MEANS AND METHODS OF CONSTRUCTION, THE QUANTITY OF EXCAVATED MATERIAL THAT MUST BE TEMPORARILY STOCKPILED FOR REUSE AS GENERAL FILL AND THE QUANTITY OF EXCESS MATERIAL THAT CAN BE INCORPORATED INTO THE FINAL GRADING OF THE SPOIL PLACEMENT AREA SHOWN ON THE DRAWINGS.

10. EXCAVATED MATERIAL IN EXCESS OF THE VOLUME THAT CAN BE REUSED ON SITE AS GENERAL FILL AND/OR INCORPORATED INTO THE FINAL GRADING OF THE SPOIL PLACEMENT AREA SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 31 23 05 AND APPLICABLE LAWS AND REGULATIONS.

11. IF CONTRACTOR'S CONSTRUCTION SEQUENCING REQUIRES MORE TEMPORARY STOCKPILE CAPACITY THAN IS AVAILABLE ON SITE, CONTRACTOR SHALL SECURE AN OFF-SITE STOCKPILE LOCATION, OBTAIN REQUIRED APPROVALS, AND TRANSPORT MATERIAL TO AND FROM THE SITE AT NO ADDITIONAL COST TO OWNER. THE ON-SITE TEMPORARY STOCKPILE AREA SHOWN ON THE DRAWINGS HAS BEEN COORDINATED WITH THE EROSION AND SEDIMENT CONTROL PLANS TO PROVIDE ENHANCED CONTAINMENT FOR TEMPORARY STOCKPILING OF EXCAVATED FILL MATERIAL. IF CONTRACTOR ELECTS TO USE AN OFF-SITE STOCKPILE LOCATION, CONTRACTOR SHALL SUBMIT THE PROPOSED OFF-SITE STOCKPILE LOCATION, MATERIAL HANDLING PLAN, AND EROSION AND SEDIMENT CONTROL MEASURES TO OWNER AND ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO TRANSPORTING MATERIAL TO THE OFF-SITE STOCKPILE LOCATION. OFF-SITE STOCKPILING SHALL COMPLY WITH APPLICABLE LAWS AND REGULATIONS AND SHALL NOT RELIEVE CONTRACTOR OF WASTE CHARACTERIZATION, MATERIAL TESTING, EROSION AND SEDIMENT CONTROL, OR DISPOSAL REQUIREMENTS.

12. THE COST OF ALL WORK NOTED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR THE PROJECT.



SITE STAGING PLAN

PROJECT IDENTIFICATION SIGNS:

1. TWO (2) EXISTING PROJECT IDENTIFICATION SIGNS ARE INSTALLED ON SITE, INCLUDING AN ERIE COUNTY SIGN AND A NEW YORK STATE ENVIRONMENTAL FACILITIES CORPORATION (NYSEFC) SIGN. CONTRACTOR SHALL PROTECT AND MAINTAIN BOTH SIGNS IN GOOD CONDITION THROUGHOUT CONSTRUCTION.
2. WITHIN 21 CALENDAR DAYS FOLLOWING NOTICE TO PROCEED, CONTRACTOR SHALL UPDATE BOTH EXISTING SIGNS TO REFLECT THE PHASE 2 PROJECT INFORMATION USING A DURABLE, EXTERIOR-GRADE VINYL GRAPHIC OVERLAY OR APPROVED EQUAL. NEW LETTERING SHALL BE 6 INCHES HIGH, BLACK, AND MATCH THE EXISTING SIGN STYLE.
3. CONTRACTOR SHALL REMOVE BOTH SIGNS AND ASSOCIATED SUPPORTS UPON DIRECTION FROM THE OWNER AT FINAL COMPLETION OF THE PROJECT AND RESTORE DISTURBED AREAS.
4. ALL COSTS FOR MODIFICATION, MAINTENANCE, AND REMOVAL OF THE SIGNS SHALL BE INCLUDED IN THE CONTRACT PRICE. NO SEPARATE PAYMENT WILL BE MADE.

1

SITE STAGING NOTES:

1. THIS DRAWING SHOWS NEW WORK OVERLAYED ON EXISTING CONDITIONS. REFER TO SUBSEQUENT DRAWINGS FOR EXISTING CONDITIONS AND PROPOSED WORK.
2. IF ADDITIONAL AREA FOR STAGING/ LAY-DOWN, OR TEMPORARY STORAGE IS REQUIRED BEYOND THAT SHOWN, SUBMIT A WRITTEN REQUEST TO ENGINEER. STORAGE AREA AT THE SITE IS LIMITED AND CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS TO STORE EQUIPMENT AND CONSTRUCTION MATERIALS OFF-SITE AND PROPERLY SEQUENCE DELIVERIES TO THE SITE.
3. RESTORE AREAS DISTURBED BY CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS UNLESS OTHERWISE INDICATED ON PLANS.
4. CONTRACTOR DELIVERIES SHALL ONLY BE THROUGH THE CONSTRUCTION ENTRANCE FROM HOOVER ROAD LOCATED ON THE SOUTH SIDE OF THE FACILITY.
5. CONTRACTOR SHALL NOT STORE OR STOCKPILE SPOILS WITHIN 20 FT OF THE OVERFLOW RETENTION FACILITY TO AVOID SURCHARGING THE TANK WALLS.
6. COORDINATE TEMPORARY ROAD CLOSURES WITH ENGINEER AND OWNER AND WITH THE REQUIREMENTS OF THE CONTRACTORS FIRE PROTECTION AND SITE SAFETY PLAN. AT LEAST ONE FIRE APPARATUS ACCESS ROUTE AROUND THE FACILITY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING FIRE HYDRANTS, NEW FIRE HYDRANTS, FIRE PROTECTION WATER SUPPLY, FIRE DEPARTMENT CONNECTIONS, VALVES, AND EMERGENCY ACCESS POINTS THROUGHOUT CONSTRUCTION. HYDRANTS SHALL REMAIN VISIBLE, ACCESSIBLE, AND FREE OF OBSTRUCTIONS.
8. THE AREA SHOWN MAY BE USED BY CONTRACTOR FOR TEMPORARY STOCKPILING OF EXCAVATED SPOILS INTENDED FOR REUSE AS BACKFILL FOLLOWING CONSTRUCTION OF THE TANKS AND PUMP STATION. CONTRACTOR SHALL DETERMINE AVAILABLE STOCKPILE CAPACITY AS PART OF MEANS AND METHODS BASED ON MATERIAL QUANTITY, MATERIAL CHARACTERISTICS, SAFE STOCKPILE SLOPES, REQUIRED EROSION AND SEDIMENT CONTROLS, AND CONTAINMENT WITHIN THE DESIGNATED AREA. CONTRACTOR SHALL MAINTAIN COUNTY ACCESS TO THE ASH DRYING AREA AT ALL TIMES AND SHALL NOT BLOCK ACCESS ROADS, GATES, DRAINAGE FEATURES, UTILITIES, OR OWNER OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR STOCKPILE CONSTRUCTION, MAINTENANCE, STABILIZATION, DUST CONTROL, EROSION AND SEDIMENT CONTROL, REMOVAL, AND FINAL RESTORATION.

LEGEND

- TREATMENT PROCESS STRUCTURE: COORDINATE ALL ACCESS AND WORK WITH OWNER
- TREATMENT PROCESS AREA: NO UNAUTHORIZED ACCESS OR PARKING
- PASS THROUGH DRIVING ONLY UNLESS PERMITTED IN WRITING BY THE OWNER. CONTRACTOR SHALL KEEP ROADWAY CLEAN WITHIN PASS THROUGH ROUTES
- AREAS WITH NO HIGHLIGHT ARE ACCESSIBLE TO CONTRACTOR FOR CONSTRUCTION

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · LICENSED PROFESSIONAL ENGINEER · 086864 · 9-26-26

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY
1	10/9/2026	ADDENDUM NO. 2	MAT

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2026

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: M. TERRANA
DRAWN BY: J. BEGEIRS
CHECKED BY: D. BLAMOWSKI

SHEET TITLE

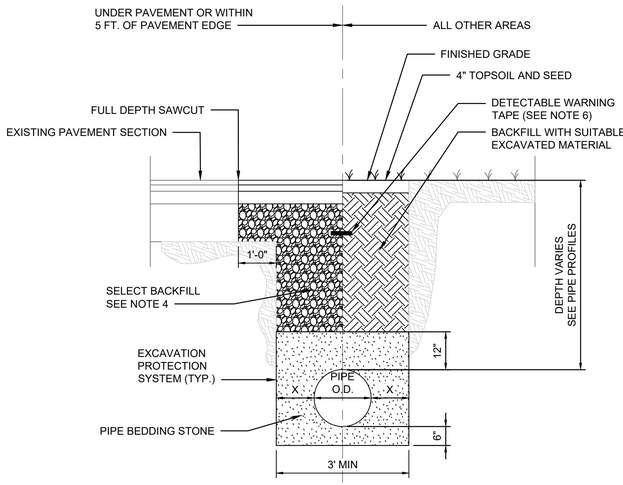
CIVIL

SITE STAGING AND EARTHWORK MANAGEMENT PLAN

SCALE: 1" = 80'
BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C00-02
SHEET NO.: 9 OF

User:MICHAEL.TERRANA Sync:AUS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122202.ECDSM.SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C00-02.DWG Scale:1:1 SavedDate:10/15/2026 Time:08:54 Plot Date: Michael Terrana; 10/15/2026; 08:54 - Layout:C00-02



DETAIL 1 NOTES:

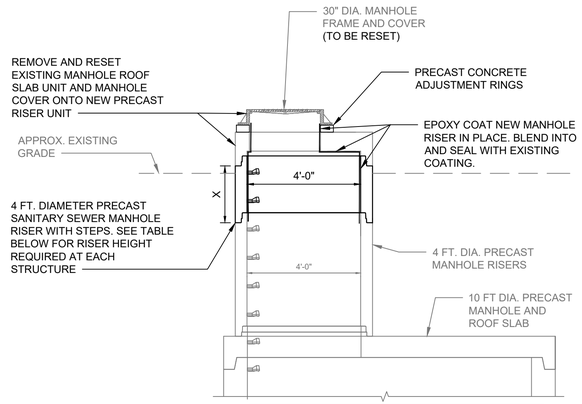
1. PIPE BEDDING MATERIAL SHALL CONSIST OF CLEAN, WASHED, DURABLE, SHARP-ANGLED FRAGMENTS OF CRUSHED BEDROCK OF UNIFORM QUALITY. CRUSHED GRAVEL, SLAG, RECYCLED CONCRETE, OR OTHER RECYCLED MATERIAL SHALL NOT BE USED AS PIPE BEDDING MATERIAL.
2. PIPE BEDDING MATERIAL FOR PIPE 24" IN DIAMETER OR LESS SHALL MEET NYSDOT MATERIAL DESIGNATION 703-0201, SIZE 1, OF NYSDOT STANDARD SPECIFICATION SECTION 703-02.
3. PIPE BEDDING MATERIAL FOR PIPE GREATER THAN 24" IN DIAMETER SHALL MEET NYSDOT MATERIAL DESIGNATION 703-0201, SIZE 2, OF NYSDOT STANDARD SPECIFICATION SECTION 703-02, UNLESS OTHERWISE SHOWN OR SPECIFIED.
4. SELECT BACKFILL UNDER PAVEMENT OR WITHIN 5 FT OF PAVEMENT EDGE SHALL CONSIST OF CRUSHED STONE WITH A GRADATION CONFORMING TO NYSDOT SUBBASE COURSE TYPE 2. PLACE AND COMPACT SELECT BACKFILL IN 6" MAXIMUM LIFTS TO 95% MODIFIED PROCTOR DENSITY.
5. TRENCH WIDTH DIMENSION 'X':

PIPE DIAMETER	"X"
UP THRU 24"	1'-0"
24" TO 72"	2'-0"

6. PROVIDE DETECTABLE WARNING TAPE IN THE TRENCH ABOVE ALL PROPOSED PIPE IDENTIFYING THE UTILITY. INSTALL TAPE AT A DEPTH 2 FT. BELOW FINISHED GRADE.
7. PROVIDE TRACER WIRE AS INDICATED IN DETAIL 4 ON THIS SHEET.
8. GAS PIPE SHALL BE BACKFILLED WITH SAND 3" BELOW AND 6" ON SIDES AND TOP OF PIPE IN LIEU OF PIPE BEDDING MATERIAL SPECIFIED ABOVE.

1 TYPICAL SINGLE PIPE TRENCH DETAIL

C00-03 — NOT TO SCALE



ORF INFLUENT MANHOLE ADJUSTMENTS

EXISTING MANHOLE STRUCTURE ID	HEIGHT OF NEW PRECAST RISER 'X'	PROPOSED RIM ELEVATION (FT)
ORF MH-01	3 FT.	592.45
ORF MH-02	2 FT.	592.36
ORF MH-03	2 FT.	591.21
ORF MH-04	1 FT.	590.81

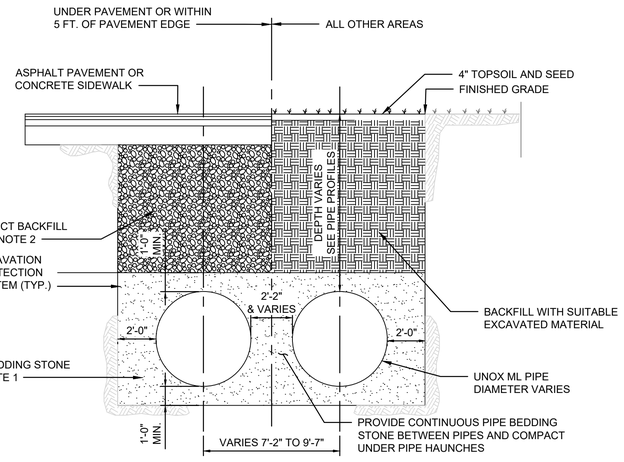
ORF INFLUENT MANHOLE ADJUSTMENT NOTES:

1. CONTRACTOR SHALL REMOVE AND RESET THE EXISTING MANHOLE ROOF SLAB UNIT, MASONRY ADJUSTMENT RINGS, FRAME, AND COVER AS REQUIRED TO INSTALL THE NEW 4 FT DIAMETER PRECAST SANITARY SEWER MANHOLE RISER UNIT AS SHOWN.
2. NEW PRECAST RISER UNIT SHALL BE MANUFACTURED FOR SANITARY SEWER SERVICE AND SEALED WITH A RUBBER O-RING GASKET COMPATIBLE WITH THE EXISTING MANHOLE SECTIONS. EXISTING MANHOLE SECTIONS ARE STANDARD 4 FT. DIAMETER PRECAST RISERS MANUFACTURED BY KISTNER PRECAST CONCRETE.
3. INTERIOR SURFACES OF THE NEW RISER UNIT SHALL BE COATED WITH EPOXYTEC CPP TROWEL-LINER, OR APPROVED EQUAL DEMONSTRATING COMPATIBILITY WITH THE EXISTING INTERIOR MANHOLE COATING SYSTEM. EXISTING MANHOLE COATING IS EPOXYTEC CPP TROWEL-LINER. PROPOSED EQUAL PRODUCTS SHALL INCLUDE MANUFACTURER'S WRITTEN CONFIRMATION OF COMPATIBILITY WITH THE EXISTING EPOXYTEC CPP TROWEL-LINER SYSTEM AND RECOMMENDED SURFACE PREPARATION, OVERLAP, AND BLENDING PROCEDURES.
4. COAT NEW RISER UNIT IN PLACE AFTER INSTALLATION. PREPARE NEW CONCRETE, EXISTING COATING EDGES, AND EXISTING CONCRETE SURFACES TO BE OVERCOATED IN ACCORDANCE WITH COATING MANUFACTURER'S WRITTEN REQUIREMENTS. BLEND NEW COATING INTO EXISTING COATING TO PROVIDE A CONTINUOUS, SEALED, HOLIDAY-FREE INTERIOR LINING SYSTEM. COATING SYSTEM SHALL BE APPLIED AT NOT LESS THAN 125 MILS DFT
5. THE ORF INFLUENT LINE OPERATES UNDER SURCHARGED CONDITIONS DURING WET WEATHER. CONTRACTOR SHALL COORDINATE THIS WORK WITH OWNER'S PLANT OPERATIONS. WORK SHALL ONLY BE PERFORMED DURING DRY WEATHER PERIODS AND WHEN USE OF THE ORF INFLUENT LINE IS NOT ANTICIPATED. CONTRACTOR SHALL NOT REMOVE OR UNLOAD THE EXISTING MANHOLE ROOF SLAB WHEN WET WEATHER, SURCHARGED CONDITIONS, OR USE OF THE ORF INFLUENT LINE IS ANTICIPATED.
6. PAINT EXPOSED EXTERIOR CONCRETE SURFACES OF ORF MH-01 THROUGH ORF MH-04 SAFETY YELLOW. PAINT SHALL BE APPLIED TO THE PORTION OF THE CONCRETE MANHOLE EXPOSED ABOVE FINAL GRADE, FROM FINISHED GRADE TO THE UNDERSIDE OF THE FRAME AND COVER. PROVIDE SURFACE PREPARATION, PRIMER, FINISH COAT, APPLICATION, DRY FILM THICKNESS, TESTING, AND PROTECTION IN ACCORDANCE WITH SECTION 09 91 00, PAINTING, ARTICLE 2.2.E, NEW AND EXISTING EXTERIOR CAST-IN-PLACE CONCRETE. COLOR SHALL BE LEMON/SAFETY YELLOW 02SF, OR APPROVED EQUAL.
7. CONTRACTOR SHALL COMPLETE THE ORF INFLUENT MANHOLE ADJUSTMENTS SHOWN IN THIS DETAIL FOR ORF MH-01 THROUGH ORF MH-04 WITHIN 1 YEAR FROM NOTICE TO PROCEED.

1

2 EXISTING ORF INFLUENT MANHOLE ADJUSTMENTS

C00-03 — NOT TO SCALE

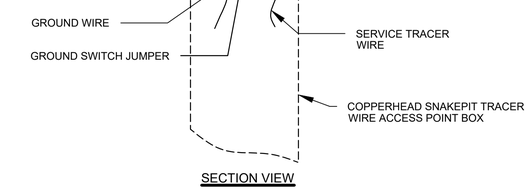


NOTES:

1. PIPE BEDDING MATERIAL SHALL CONSIST OF CLEAN, WASHED, DURABLE, SHARP-ANGLED FRAGMENTS OF CRUSHED BEDROCK OF UNIFORM QUALITY MEETING NYSDOT MATERIAL DESIGNATION 703-0201, SIZE 1, OF NYSDOT STANDARD SPECIFICATION SECTION 703-02. SLAG, RECYCLED CONCRETE, OR OTHER RECYCLED MATERIAL SHALL NOT BE USED AS PIPE BEDDING MATERIAL.
2. SELECT BACKFILL SHALL CONSIST OF NYSDOT SUBBASE COURSE TYPE 2 COMPACTED IN 6" MAXIMUM LIFTS TO 95% MODIFIED PROCTOR DENSITY.
3. PLACE AND COMPACT PIPE BEDDING, HAUNCHING, AND INITIAL BACKFILL EVENLY ON BOTH SIDES OF EACH PIPE AND BETWEEN PIPES TO PREVENT PIPE MOVEMENT OR UNEVEN LOADING.
4. MINIMUM CLEARANCES SHOWN ARE REQUIRED TO ALLOW PLACEMENT AND COMPACTION OF BEDDING AND BACKFILL MATERIAL. CONTRACTOR SHALL INCREASE TRENCH WIDTH AS REQUIRED FOR PIPE INSTALLATION, JOINT ASSEMBLY, COMPACTION EQUIPMENT, EXCAVATION SUPPORT, AND SAFE WORKING CONDITIONS AS NECESSARY. INCLUDE COST OF ADDITIONAL PIPE BEDDING STONE TO ACCOMMODATE CONTRACTOR'S CONSTRUCTION MEANS AND METHODS IN THE LUMP SUM BID FOR THE PROJECT.
5. EXCAVATION PROTECTION SYSTEM SHOWN IS SCHEMATIC. CONTRACTOR SHALL DESIGN, PROVIDE, MAINTAIN, AND REMOVE EXCAVATION SUPPORT, SHEETING, SHORING, BRACING, DEWATERING, AND TRENCH SAFETY SYSTEMS REQUIRED FOR THE WORK.
6. WHERE UNSUITABLE, SOFT, WET, OR UNSTABLE MATERIAL IS ENCOUNTERED BELOW PIPE BEDDING ELEVATION, NOTIFY ENGINEER PRIOR TO PLACING PIPE BEDDING. UNDERCUT AND REPLACE UNSUITABLE MATERIAL ONLY WHERE DIRECTED BY ENGINEER.

5 UNOX ML DUAL PIPE TRENCH DETAIL

C00-03 — NOT TO SCALE



SECTION VIEW

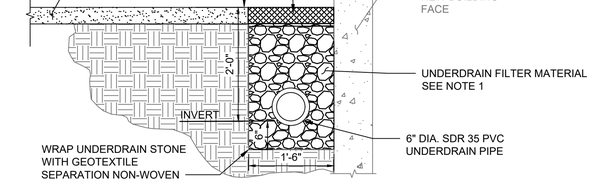
COPPERHEAD SNAKEPIT WITH TWO-TERMINAL SWITCHABLE LID

NOTES:

1. PROVIDE TRACER WIRE FOR 3" HDPE WATERLINE / YARD HYDRANT PIPING, ORF ODOR CONTROL PIPING, ORF CHEMICAL FEED PIPING, GAS PIPING, POTABLE WATERLINES, HIGH-PRESSURE SERVICE WATERLINES, UNOX ML PIPES, AND UNOX INFLUENT FORCE MAIN.
2. TRACER WIRE SHALL BE SOLID COPPER, COPPER-CLAD STEEL, OR HIGH-STRENGTH COPPERHEAD INDUSTRIES TRACER WIRE, OR APPROVED EQUAL, RATED FOR DIRECT BURIAL AND SUITABLE FOR THE INSTALLED PIPELINE SERVICE. PROVIDE MINIMUM 10 AWG WIRE FOR MAINLINE INSTALLATIONS AND MINIMUM 12 AWG WIRE FOR SERVICE CONNECTIONS UNLESS OTHERWISE RECOMMENDED BY THE TRACER WIRE MANUFACTURER.
3. TRACER WIRE INSULATION COLOR SHALL MATCH THE UTILITY SERVICE WHERE PRACTICAL.
4. INSTALL TRACER WIRE CONTINUOUSLY ABOVE OR ALONGSIDE THE PIPE NOTED. SECURE TRACER WIRE TO THE PIPE OR PLACE DIRECTLY ABOVE THE PIPE IN A MANNER THAT MAINTAINS CONTINUITY AND DOES NOT DAMAGE THE PIPE, PIPE COATING, OR TRACER WIRE INSULATION.
5. TERMINATE TRACER WIRE FOR POTABLE AND HIGH PRESSURE SERVICE WATERLINES IN WATERLINE VALVE BOXES AND HYDRANT VALVE BOXES. PROVIDE A MINIMUM 12" SLACK WIRE IN EACH VALVE BOX OR ACCESS POINT FOR LOCATING PURPOSES.
6. PROVIDE COPPERHEAD SNAKEPIT TWO-TERMINAL SWITCHABLE LID ACCESS POINT BOX, PART NUMBER SP-SWILD-*2, OR APPROVED EQUAL, FOR 3" HDPE YARD HYDRANT PIPING, ORF ODOR CONTROL PIPING, ORF CHEMICAL FEED PIPING, AND OTHER NON-METALLIC PRESSURE PIPELINES WHERE VALVE BOX TERMINATIONS ARE NOT AVAILABLE OR WHERE SHOWN ON THE DRAWINGS.
7. PROVIDE TRACER WIRE ACCESS POINT BOXES AT EACH END OF THE 3" HDPE YARD HYDRANT PIPING, ORF ODOR CONTROL PIPING, UNOX ML, UNOX INFLUENT FORCE MAIN AND ORF CHEMICAL FEED PIPING.
8. ACCESS POINT BOX LIDS SHALL BE SET FLUSH WITH FINISHED GRADE AND SHALL REMAIN VISIBLE AND ACCESSIBLE AFTER FINAL GRADING, PAVING, RESTORATION, AND LANDSCAPING. LID COLOR SHALL MATCH THE UTILITY SERVICE WHERE PRACTICAL.
9. ALL SPLICES, BRANCH CONNECTIONS, GROUND CONNECTIONS, AND REPAIRS SHALL BE MADE WITH WATERPROOF, CORROSION-RESISTANT CONNECTORS RATED FOR DIRECT BURIAL AND COMPATIBLE WITH THE TRACER WIRE SYSTEM. WIRE NUTS, TWIST-ON CONNECTORS, TAPED SPLICES, OR NON-WATERPROOF CONNECTORS ARE NOT ACCEPTABLE.
10. PROVIDE GROUNDING ANODES, GROUND RODS, OR OTHER GROUNDING COMPONENTS REQUIRED BY THE TRACER WIRE MANUFACTURER TO PROVIDE A COMPLETE AND LOCATABLE SYSTEM. INSTALL GROUNDING COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN REQUIREMENTS.
11. TRACER WIRE SHALL BE ELECTRICALLY CONTINUOUS BETWEEN ACCESS POINTS. CONTRACTOR SHALL TEST TRACER WIRE CONTINUITY AND VERIFY POSITIVE LOCATING SIGNAL FOR EACH TRACER WIRE RUN PRIOR TO BACKFILL ACCEPTANCE AND AGAIN PRIOR TO FINAL ACCEPTANCE. REPAIR DISCONTINUITIES OR SIGNAL DEFICIENCIES AT NO ADDITIONAL COST TO OWNER.

4 PIPE TRACER WIRE REQUIREMENTS

C00-03 — NOT TO SCALE



NOTES:

1. BACKFILL UNDERDRAIN WITH MATERIAL MEETING THE REQUIREMENTS OF NYSDOT UNDERDRAIN FILTER MATERIAL - TYPE 2 AS DEFINED IN NYSDOT STANDARD SPECIFICATIONS TABLE 733-20A.
2. PROVIDE 4" THICK SURFACE LAYER OF CLEAN, WASHED NYSDOT NO. 2 STONE ABOVE UNDERDRAIN FILTER MATERIAL. SURFACE STONE SHALL BE FREE-DRAINING AND SHALL PROVIDE A STABLE, MAINTAINABLE SURFACE ADJACENT TO THE BUILDING FACE.
3. PROVIDE UNDERDRAIN ALONG WEST FACE OF NEW UNOX TANKS 5 AND 6 AND ALONG SOUTH SIDE OF EXISTING AWTF BUILDING.
4. OUTLET UNDERDRAIN INTO STORM WATER DRAINAGE INLETS AND MANHOLES AT LOCATIONS SHOWN ON DWG. C01-09.

3 BUILDING FACE UNDERDRAIN

C00-03 — NOT TO SCALE

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · LICENSED PROFESSIONAL ENGINEER · 099864 · 9-26-26

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY
1	10/9/2026	ADDENDUM NO. 2	MAT

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2026

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: M. TERRANA
DRAWN BY: J. BEGEIRS
CHECKED BY: D. BLAMOWSKI

SHEET TITLE

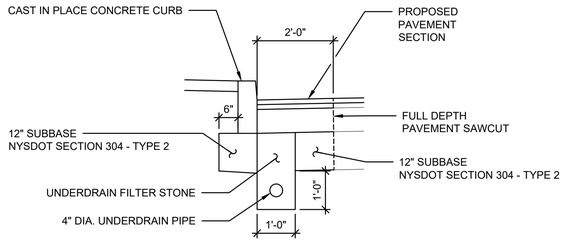
CIVIL

SITE DETAILS - I

SCALE: N.T.S.
0 1 BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C00-03
SHEET NO.: 10 OF

User:MICHAEL.TERRANA Spec:AUS-NCSMOD File:C:\USERS\MICHAEL.TERRANA\JM DAVIDSON DROPBOX\MICHAEL TERRANA\JM DAVIDSON PROJECTS - ACTIVE\122202 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C00-03.DWG Scale:1:1 SavedDate:10/14/2026 Time:16:40 Plot Date: Michael Terrana, 10/14/2026, 16:40 - Layout:C00-03

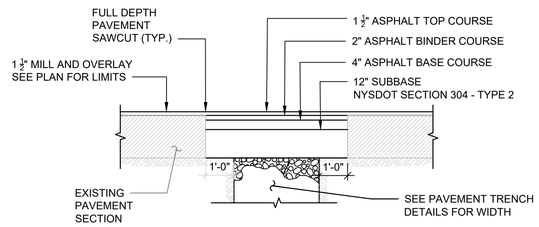


NOTES:

1. CONCRETE CURB SHALL BE NYSDOT TYPE VF6. SEE NYSDOT STANDARD SHEET 609-01 FOR CONCRETE CURB DETAILS. CONCRETE CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF NYSDOT ITEM 609.0401 - CAST IN PLACE CONCRETE CURB TYPE VF6.
2. NEW UNDERDRAIN PIPE SHALL BE CONNECTED TO EXISTING UNDERDRAIN OR DRAINAGE STRUCTURE AT THE LIMITS OF CURB REPLACEMENT.

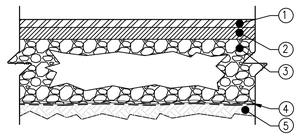
1 CONCRETE CURB

C00-04 NO SCALE



2 PAVEMENT TRENCH SURFACE RESTORATION

C00-04 NO SCALE



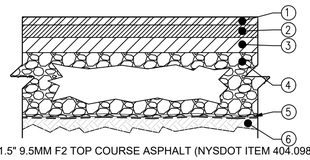
1. 1.5" 9.5MM F2 TOP COURSE ASPHALT (NYSDOT ITEM 404.0982)
2. 3.5" 19 F9 BINDER COURSE ASPHALT (NYSDOT ITEM 404.1989)
3. 12" SUBBASE COURSE, TYPE 2 NYSDOT ITEM 304.12
4. GEOTEXTILE STABILIZATION LAYER
5. COMPACTED SUBGRADE

NOTES:

1. STANDARD DUTY PAVEMENT IS ONLY TO BE PLACED AS DIRECTED BY OWNER AS PART OF ADDITIONAL WORK AUTHORIZED.
2. COMPACT SUBGRADE TO A MODIFIED PROCTOR DENSITY OF 95%
3. DILUTED TACK COATS (NYSDOT ITEM 407.0102) SHALL BE APPLIED BETWEEN ALL ASPHALT LIFTS
4. SEE PAVING, GRADING, AND DRAINAGE PLANS FOR LOCATIONS

3 STANDARD DUTY PAVEMENT SECTION

C00-04 NO SCALE



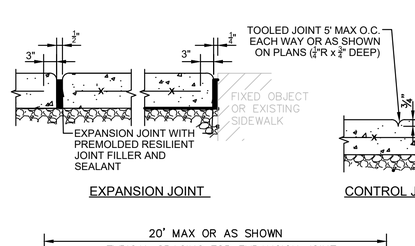
1. 1.5" 9.5MM F2 TOP COURSE ASPHALT (NYSDOT ITEM 404.0982)
2. 2" 19 F9 BINDER COURSE ASPHALT (NYSDOT ITEM 404.1989)
3. 4" 37.5 F9 BASE COURSE ASPHALT (NYSDOT ITEM 404.3789)
4. 12" SUBBASE COURSE, TYPE 2 NYSDOT ITEM 304.12
5. GEOTEXTILE STABILIZATION LAYER
6. COMPACTED SUBGRADE

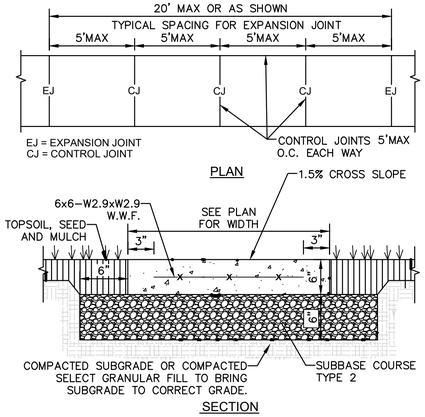
NOTES:

1. COMPACT SUBGRADE TO A MODIFIED PROCTOR DENSITY OF 95%.
2. DILUTED TACK COATS (NYSDOT ITEM 407.0102) SHALL BE APPLIED BETWEEN ALL ASPHALT LIFTS
3. SEE PAVING, GRADING, AND DRAINAGE PLANS FOR LOCATIONS OF HEAVY DUTY PAVEMENT AND ROADWAY TYPICAL SECTIONS FOR ADDITIONAL INFORMATION ON LOCATIONS OF USE.

4 HEAVY DUTY PAVEMENT SECTION

C00-04 NO SCALE



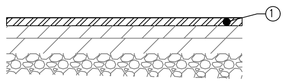


NOTES:

1. ALL CONCRETE TO BE 4,000 PSI CONCRETE. CONCRETE MATERIALS, PLACEMENT, AND CONSTRUCTION TO CONFORM WITH SECTION 608 OF THE NYSDOT STANDARD SPECIFICATIONS.
2. SUBBASE MATERIAL TO CONFORM WITH SECTION 304 OF THE NYSDOT STANDARD SPECIFICATIONS.
3. ALL EXPOSED SURFACED TO HAVE A BROOM TEXTURED FINISH AND TOOLED EDGES.
4. EXPANSION JOINTS TO BE LOCATED A MAXIMUM OF 20 FT. ON CENTER, OR AS INDICATED ON PLANS.
5. EXPOSED CONCRETE SURFACES TO BE TREATED WITH SUREBOND/SAFEBOND SB-7000 INTENSIFIER BRIGHT PROTECTOR AND SIDEWALK SEALER, OR EQUAL. RATE AND METHOD OF APPLICATION TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

5 CONCRETE SIDEWALKS

C00-04 3/8"=1'-0" 0 1 2 3 4



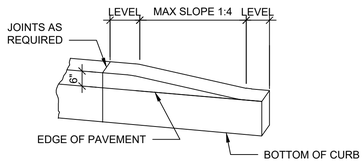
1. 1.5" 9.5MM F2 TOP COURSE ASPHALT (NYSDOT ITEM 404.0982)

NOTES:

1. DILUTED TACK COATS (NYSDOT ITEM 407.0102) SHALL BE APPLIED TO ALL MILLED SURFACES.
2. SEE PAVING, GRADING, AND DRAINAGE PLANS FOR LOCATIONS OF HEAVY DUTY PAVEMENT AND ROADWAY TYPICAL SECTIONS FOR ADDITIONAL INFORMATION ON LOCATIONS OF USE.
3. SEE VARIOUS GRADING, DRAINAGE, AND PAVING PLANS FOR PAVEMENT OVERLAY LIMITS.

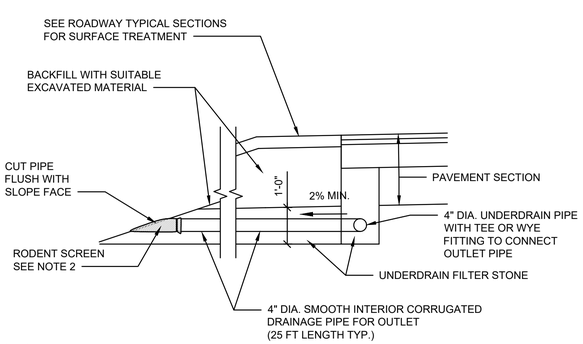
6 TOP COURSE OVERLAY PAVEMENT SECTION

C00-04 NO SCALE



7 CONCRETE CURB TRANSITIONS

C00-04 NO SCALE

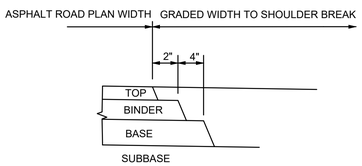


NOTES:

1. CONTRACTOR SHALL OUTLET UNDERDRAIN TO NEAREST CATCH BASIN WHERE ONE IS AVAILABLE. ON PARTS OF THE SITE WITHOUT CLOSED DRAINAGE, PROVIDE UNDERDRAIN OUTLETS TO DAYLIGHT IN ACCORDANCE WITH ABOVE DETAIL EVERY 250 FT.
2. RODENT SCREEN SHALL BE 16 GAUGE OR HEAVIER, #2 OR #3 WELDED WIRE MESH, MADE OF TYPE 304 STAINLESS STEEL OR CARBON STEEL WIRE HOT GALVANIZED. CRIMP AROUND OUTLET END OF PIPE AND SECURE TO PIPE WITH GALVANIZED STEEL WIRE.

8 UNDERDRAIN DAYLIGHT OUTLET DETAIL

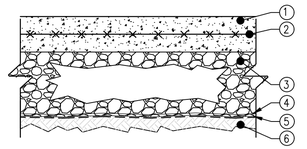
C00-04 NO SCALE



NOTE:
STEP PAVEMENT 2" FOR LIFTS LESS THAN OR EQUAL TO 2" THICK.
STEP PAVEMENT 4" FOR LIFTS GREATER THAN 2" THICK.

9 ASPHALT PAVEMENT EDGE DETAIL

C00-04 NO SCALE



1. 8" PORTLAND CEMENT CONCRETE PAVEMENT (NYSDOT ITEM 502.0121)
2. WELDED WIRE MESH 6"X6" - W6.0XW6.0 (PLACE AT MID-POINT OF POUR)
3. 12" SUBBASE COURSE, TYPE 2 NYSDOT ITEM 304.12
4. GEOTEXTILE STABILIZATION LAYER
5. COMPACTED SUBGRADE

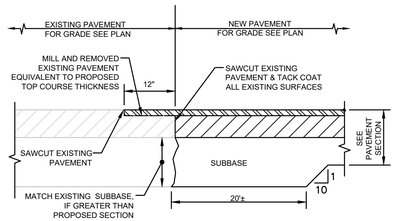
NOTES:

1. COMPACT SUBGRADE TO A MODIFIED PROCTOR DENSITY OF 95%.
2. PROVIDE SAWCUT CONTROL JOINTS AT 10 FT MAXIMUM SPACING EACH WAY UNLESS OTHERWISE SHOWN. SAWCUT JOINTS AS SOON AS CONCRETE CAN BE CUT WITHOUT RAVELING.
3. PROVIDE ISOLATION JOINTS WHERE CONCRETE PAVEMENT ABUTS STRUCTURES, BUILDINGS, FOUNDATIONS, WALLS, MANHOLES, VALVE BOXES, AND OTHER FIXED OBJECTS. PROVIDE A PREMOULDED JOINT FILLER BETWEEN THE CONCRETE SLAB AND ISOLATED OBJECT.
4. PROVIDE CONSTRUCTION JOINTS AT THE END OF EACH PLACEMENT OR WHERE CONCRETE PLACEMENT IS INTERRUPTED. LOCATE CONSTRUCTION JOINTS TO ALIGN WITH CONTROL JOINTS WHERE PRACTICAL. DOWELS AT CONSTRUCTION JOINTS SHALL BE SMOOTH, EPOXY-COATED STEEL DOWEL BARS, 3/4" DIAMETER BY 18" LONG, SPACED AT 12" O.C., PLACED AT MID-DEPTH OF SLAB AND PARALLEL TO THE DIRECTION OF TRAFFIC OR EXPECTED WHEEL LOADS.
5. CONTRACTOR SHALL SUBMIT PROPOSED CONCRETE PAVEMENT JOINT LAYOUT FOR ENGINEER REVIEW PRIOR TO PLACEMENT. CONSTRUCTION JOINTS SHALL BE LOCATED TO ALIGN WITH CONTROL JOINTS WHERE PRACTICAL.
6. CONCRETE PAVEMENT MATERIALS AND CONSTRUCTION SHALL CONFORM TO NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION, ITEM 502.0121 - PCC PAVEMENT, MESH REINFORCEMENT, PERFORMANCE TYPE 1. PROVIDE CONCRETE MIX DESIGN, SUBGRADE AND SUBBASE PREPARATION, PLACEMENT, FINISHING, CURING, JOINTING, TOLERANCES, FIELD QUALITY CONTROL, AND TESTING IN ACCORDANCE WITH ITEM 502.0121 AND OTHER NYSDOT ITEMS CROSS-REFERENCED THEREIN.
7. PROVIDE ELASTOMERIC POLYURETHANE SEALANT AT ALL ISOLATION AND CONSTRUCTION JOINTS.

1

11 CONCRETE PAVEMENT SECTION

C00-04 NO SCALE



10 PAVEMENT SECTION TRANSITION

C00-04 NO SCALE

ARCADIS
LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS



WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY
1	10/9/2026	ADDENDUM NO. 2	MAT

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2026

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: M. TERRANA
DRAWN BY: J. BEGEIRS
CHECKED BY: D. BLAMOWSKI

SHEET TITLE

CIVIL

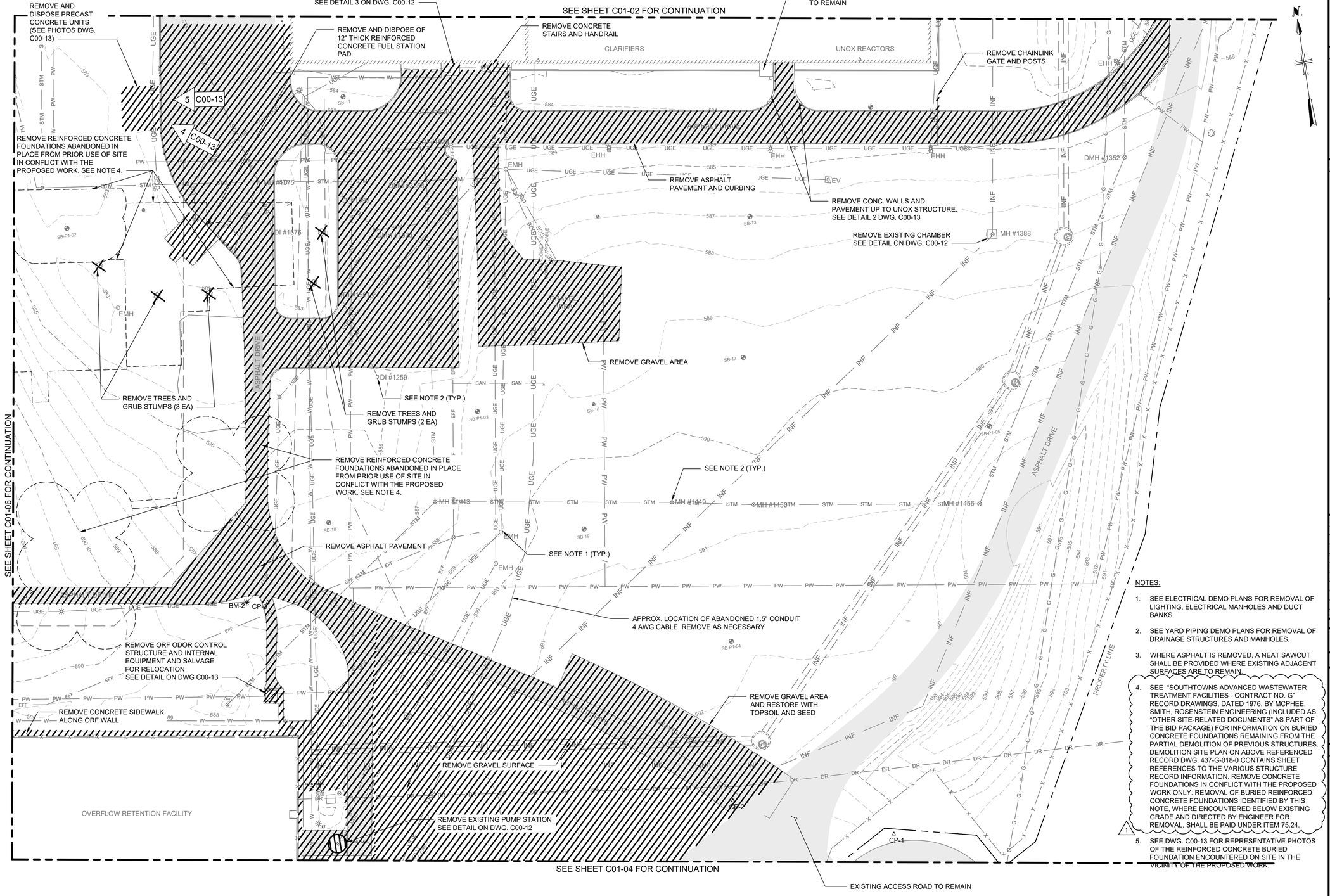
SITE DETAILS - II

SCALE: N.T.S.
0 BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C00-04
SHEET NO.: 11 OF

User:MICHAEL.TERRANA Spec:AUS-NCSMOD File:V:\MDAVIDSON PROJECTS - ACTIVE\122022 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C00-04.DWG Scale:1:1 SavedDate:10/8/2026 Time:13:41 Plot Date: Michael Terrana, 10/8/2026, 13:42 - Layout:C00-04

User:MICHAEL.TERRANA Spec:AUS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122200.ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-03.DWG Scale:1:1 SavedDate:10/7/2026 Time:20:51 Plot Date: Michael Terrana: 10/7/2026; 20:55 ; Layout:C01-03



PARTIAL SITE DEMOLITION PLAN - II

1"=30'

NOTES:

1. SEE ELECTRICAL DEMO PLANS FOR REMOVAL OF LIGHTING, ELECTRICAL MANHOLES AND DUCT BANKS.
2. SEE YARD PIPING DEMO PLANS FOR REMOVAL OF DRAINAGE STRUCTURES AND MANHOLES.
3. WHERE ASPHALT IS REMOVED, A NEAT SAWCUT SHALL BE PROVIDED WHERE EXISTING ADJACENT SURFACES ARE TO REMAIN.
4. SEE "SOUTHTOWNS ADVANCED WASTEWATER TREATMENT FACILITIES - CONTRACT NO. G" RECORD DRAWINGS, DATED 1976, BY MCPHEE, SMITH, ROSENSTEIN ENGINEERING (INCLUDED AS "OTHER SITE-RELATED DOCUMENTS" AS PART OF THE BID PACKAGE) FOR INFORMATION ON BURIED CONCRETE FOUNDATIONS REMAINING FROM THE PARTIAL DEMOLITION OF PREVIOUS STRUCTURES. DEMOLITION SITE PLAN ON ABOVE REFERENCED RECORD DWG. 437-G-018-0 CONTAINS SHEET REFERENCES TO THE VARIOUS STRUCTURE RECORD INFORMATION. REMOVE CONCRETE FOUNDATIONS IN CONFLICT WITH THE PROPOSED WORK ONLY. REMOVAL OF BURIED REINFORCED CONCRETE FOUNDATIONS IDENTIFIED BY THIS NOTE, WHERE ENCOUNTERED BELOW EXISTING GRADE AND DIRECTED BY ENGINEER FOR REMOVAL, SHALL BE PAID UNDER ITEM 75.24.
5. SEE DWG. C00-13 FOR REPRESENTATIVE PHOTOS OF THE REINFORCED CONCRETE BURIED FOUNDATION ENCOUNTERED ON SITE IN THE VICINITY OF THE PROPOSED WORK.

LEGEND:

REMOVAL LIMITS

TREE REMOVAL

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · LICENSED PROFESSIONAL ENGINEER · 088826
9-26-26

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY
1	10/9/2026	ADDENDUM NO. 2	MAT

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2026

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: M. TERRANA
DRAWN BY: J. BEGEIRS
CHECKED BY: D. BLAMOWSKI

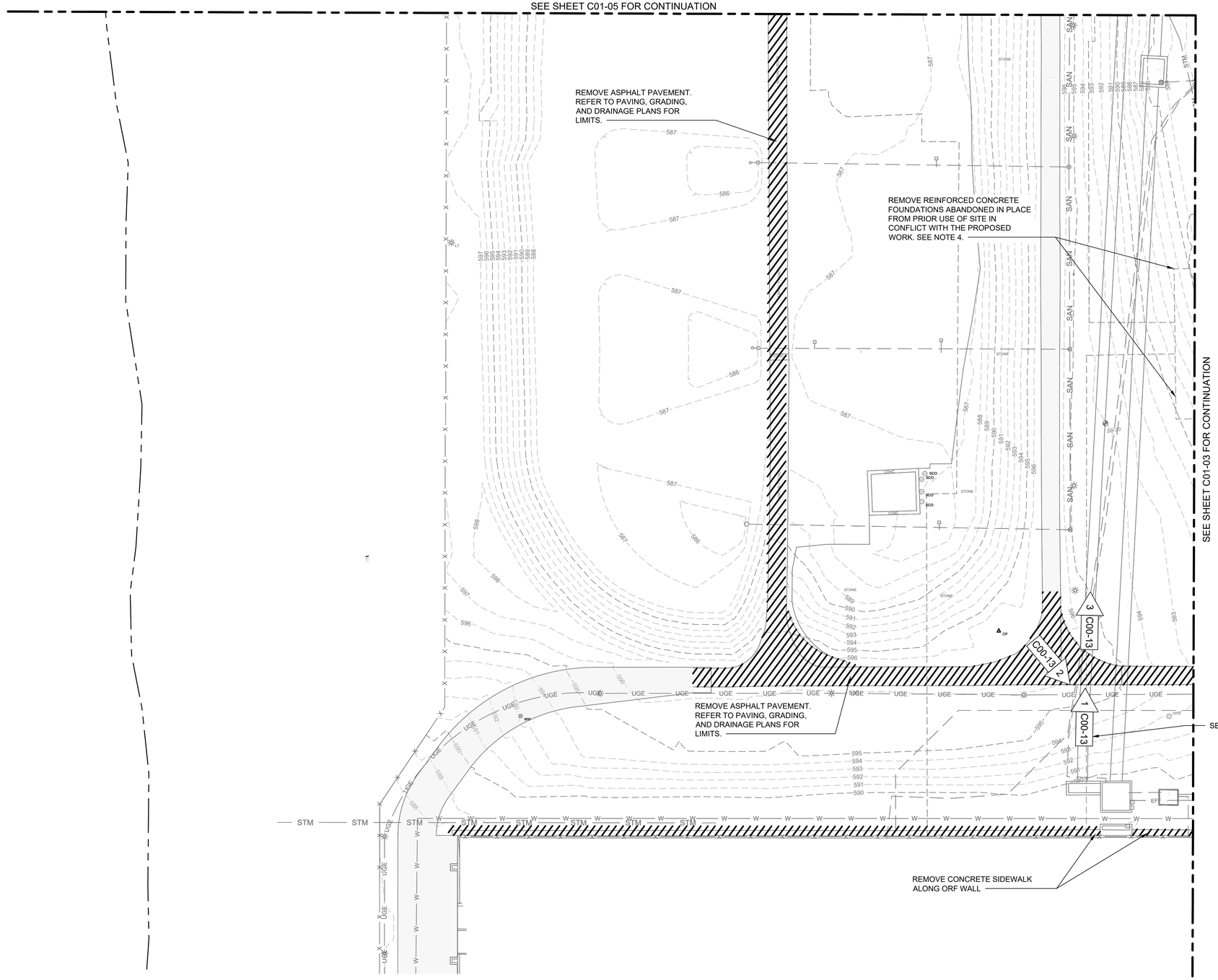
SHEET TITLE

CIVIL

PARTIAL SITE DEMOLITION PLAN - II

SCALE: 1" = 30'
BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-03
SHEET NO.: 23 OF



NOTES:

1. SEE ELECTRICAL DEMO PLANS FOR REMOVAL OF LIGHTING, ELECTRICAL MANHOLES AND DUCT BANKS.
2. SEE YARD PIPING DEMO PLANS FOR REMOVAL OF DRAINAGE STRUCTURES AND MANHOLES.
3. WHERE ASPHALT IS REMOVED, A NEAT SAWCUT SHALL BE PROVIDED WHERE EXISTING ADJACENT SURFACES ARE TO REMAIN.
4. SEE "SOUTHTOWNS ADVANCED WASTEWATER TREATMENT FACILITIES - CONTRACT NO. G" RECORD DRAWINGS, DATED 1976, BY MCPHEE, SMITH, ROSENSTEIN ENGINEERING (INCLUDED AS "OTHER SITE-RELATED DOCUMENTS" AS PART OF THE BID PACKAGE) FOR INFORMATION ON BURIED CONCRETE FOUNDATIONS REMAINING FROM THE PARTIAL DEMOLITION OF PREVIOUS STRUCTURES. DEMOLITION SITE PLAN ON ABOVE REFERENCED RECORD DWG. 437-G-018-0 CONTAINS SHEET REFERENCES TO THE VARIOUS STRUCTURE RECORD INFORMATION. REMOVE CONCRETE FOUNDATIONS IN CONFLICT WITH THE PROPOSED WORK ONLY. REMOVAL OF BURIED REINFORCED CONCRETE FOUNDATIONS IDENTIFIED BY THIS NOTE, WHERE ENCOUNTERED BELOW EXISTING GRADE AND DIRECTED BY ENGINEER FOR REMOVAL, SHALL BE PAID UNDER ITEM 75.24. (1)
5. SEE DWG. C00-13 FOR REPRESENTATIVE PHOTOS OF THE REINFORCED CONCRETE BURIED OBSTRUCTIONS ENCOUNTERED ON SITE IN THE VICINITY OF THE PROPOSED WORK.

PARTIAL SITE DEMOLITION PLAN - V

1"=30' 30 0 30

1"=30' 30 0 30

LEGEND:

GENERAL REMOVAL LIMITS

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

STATE OF NEW YORK · MICHAEL ANTHONY TERRANA · LICENSED PROFESSIONAL ENGINEER · 098864 · 9-26-26

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY
1	10/9/2026	ADDENDUM NO. 2	MAT

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2026

PROJECT STATUS: BID READY

PROJECT NO.: 30119430

DATE: SEPTEMBER 2026

DESIGNED BY: M. TERRANA

DRAWN BY: J. BEGEIRS

CHECKED BY: D. BLAMOWSKI

SHEET TITLE

CIVIL

SITE DEMOLITION
PARTIAL PLAN - V

SCALE: 1" = 30'

BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-06

SHEET NO.: 26 OF

User:MICHAEL.TERRANA Spec:AUS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122202.ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-06.DWG Scale:1:1 SavedDate:10/7/2026 Time:20:54 Plot Date: Michael Terrana, 10/7/2026, 20:56 - Layout:C01-06

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED, INSPECTED, MONITORED, AND MAINTAINED AS SPECIFIED IN THE PROJECT SPECIFICATIONS, THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND THE SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY, GP-0-25-001.

2. THIS PROJECT IS BEING PROCESSED AS A CONTINUATION/MODIFICATION TO THE ACTIVE PERMIT AUTHORIZATION UNDER THE GP-0-25-001. THE PERMIT IDENTIFICATION NUMBER IS NYR11L835. THE PROJECT SWPPP WILL BE UPDATED TO INCLUDE ALL ADDITIONAL WORK INCLUDED IN THESE CONTRACT DOCUMENTS. INSPECTIONS AND MAINTENANCE SHALL BE CONDUCTED AS A CONTINUATION OF THE EXISTING SWPPP REQUIREMENTS.

3. WHERE THERE ARE INCONSISTENCIES BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS, GP-0-25-001 AND THE SWPPP, THE MORE STRINGENT REQUIREMENTS SHALL BE FOLLOWED.

4. IN ACCORDANCE WITH GP-0-25-001 AND THE SWPPP, THE CONTRACTOR SHALL DESIGNATE A TRAINED CONTRACTOR THAT WILL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL MEASURES, THE DAILY INSPECTIONS OF THE PROJECT SITE, AND THE MAINTENANCE AND MODIFICATION OF EROSION AND SEDIMENT CONTROL MEASURES. THE NAME AND QUALIFICATIONS (TRAINING AND CERTIFICATION) OF THIS INDIVIDUAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF THE PROJECT. THEIR CERTIFICATION DOCUMENTS SHALL BE INCLUDED AS PART OF THE SWPPP.

5. THE OWNER WILL PROVIDE THE QUALIFIED INSPECTOR, AS REQUIRED BY GP-0-25-001 AND THE SWPPP. THE QUALIFIED INSPECTOR WILL BE REQUIRED TO CONDUCT WEEKLY INSPECTIONS, IN ACCORDANCE WITH THE SWPPP, AND PROVIDE INSPECTION REPORTS TO THE ENTIRE PROJECT TEAM.

6. THE PROJECT DOCUMENTS CONTAIN A POTENTIAL EROSION AND SEDIMENT CONTROL PLAN BASED ON THE ANTICIPATED SCOPE OF WORK AND LIKELY CONSTRUCTION OPERATIONS. AS WORK BEGINS, SHOULD THE CONTRACTOR IDENTIFY ADDITIONAL PHASES, SEQUENCES, OR OPERATIONS THAT VARY FROM WHAT IS DEPICTED ON THE CONTRACT DOCUMENTS, THE TRAINED CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ANY FIELD CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO SUBMIT A MODIFIED EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL PRIOR TO IMPLEMENTING FIELD CHANGES.

7. DETAILS OF LIKELY USED EROSION CONTROL MEASURES ARE INCLUDED IN THE PLANS; HOWEVER, THE 2016 NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK) ARE INCORPORATED TO THE PROJECT DOCUMENTS BY REFERENCE. IF NECESSARY, THE CONTRACTOR MAY UTILIZE ADDITIONAL MEASURES IDENTIFIED IN THE BLUE BOOK TO MINIMIZE EROSION.

8. THE SWPPP SHALL BE AMENDED AND RE-CERTIFIED BY A LICENSED OR CERTIFIED PROFESSIONAL IF THERE ARE CHANGES IN THE DESIGN OR CONSTRUCTION ACTIVITIES THAT MAY HAVE A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF SEDIMENT OR POLLUTANTS INTO WATERS OF THE U.S. OR VARIATIONS IN WATER QUALITY OR QUANTITY TREATMENT REQUIRED. COSTS ASSOCIATED WITH THE AMENDMENT OR RE-CERTIFICATION SHALL BE CONSIDERED EXTRA WORK AND REQUIRE AUTHORIZATION FROM THE ENGINEER AND OWNER.

9. THIS SITE IS ALSO COVERED BY A SPDES MULTI-SECTOR GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY, GP-0-23-001. IN ACCORDANCE WITH THE PERMIT, THE OWNER MUST COLLECT A DISCHARGE SAMPLE FROM THE STORMWATER OUTFALL QUARTERLY FOR VISUAL WET WEATHER MONITORING. THE MONITORING MUST BE MADE AT LEAST ONCE IN EACH OF THE FOLLOWING QUARTERS: JANUARY 1ST/ THROUGH MARCH 31ST/, APRIL 1ST/ THROUGH JUNE 30TH/, JULY 1ST/ THROUGH SEPTEMBER 30TH/, AND OCTOBER 1ST/ THROUGH DECEMBER 31ST/. ALL SAMPLES MUST BE COLLECTED DURING THE FIRST 30 MINUTES (OR AS SOON AS PRACTICAL, BUT NOT TO EXCEED ONE HOUR) OF THE DISCHARGE OF THE OUTFALL RESULTING FROM A QUALIFYING STORM EVENT WITH AT LEAST 0.1 INCH OF PRECIPITATION. IF THE VISUAL MONITORING INDICATES INCREASED TURBIDITY AND/OR CLOUDINESS, THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING CORRECTIVE ACTIONS. IF SUBSEQUENT QUARTERLY SAMPLES CONTINUE TO SHOW INCREASED TURBIDITY AND CLOUDINESS, THE CONTRACTOR WILL BE RESPONSIBLE FOR HIGH-PRESSURE JETTING OF THE STORMWATER COLLECTION SYSTEM. THE CONTRACTOR IS TO MAINTAIN REGULAR CONTACT WITH THE OWNER REGARDING POTENTIAL TESTING DATES AND MAY BE DIRECTED TO PROVIDE PRE-EMPTIVE SWEEPING OR INLET CLEANING IN ADVANCE OF POTENTIAL TESTING DATES.

10. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL THE WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE SITE. MODIFICATIONS TO AND/OR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED DEPENDING ON THE ACTUAL SITE CONDITIONS, SEQUENCE OF OPERATIONS, AND METHODS OF WORK.

12. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHMENT OF STAGING AND ACCESS AREAS AS NECESSARY TO PERFORM THE WORK, WITH THE APPROVAL OF THE ENGINEER AND OWNER. AVAILABLE AREAS ARE DEPICTED ON THE PLANS. ADDITIONAL AREAS NEED TO BE NEGOTIATED WITH THE ON-SITE FACILITY OPERATOR.

13. THE CONTRACTOR SHALL COVER TEMPORARY STOCKPILES OF ERODIBLE MATERIAL (SUCH AS TOPSOIL OR EARTH FILL) WITH POLY SHEETING, OR RING THE STOCKPILES WITH SILT FENCE AND/OR COMPOST FILTER SOCK TO CONTROL EROSION. POLY SHEETING SHALL COMPLETELY COVER THE STOCKPILE AND BE SECURELY ANCHORED AT ALL TIMES. ANY POLY SHEETING, COMPOST FILTER SOCK, OR SILT FENCE THAT IS DAMAGED SHALL BE PROMPTLY REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER. RINGED STOCKPILES UNUSED OR EXPECTED TO BE UNUSED FOR LONGER THAN 14 CALENDAR DAYS (IF ACTIVE AREA OF DISTURBANCE IS LESS THAN 5 ACRES) OR 7 DAYS (IF ACTIVE AREA OF DISTURBANCE IS OVER 5 ACRES) SHALL BE IMMEDIATELY STABILIZED WITH APPROPRIATE MEASURES. 1

14. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED WHEREVER CONSTRUCTION VEHICLES AND EQUIPMENT (INCLUDING PICK-UP TRUCKS) TRAVERSE FROM A PAVED SURFACE TO AN EARTH SURFACE. PRELIMINARY LOCATIONS ARE NOTED ON THE PLANS. ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE REQUIRED AT ALTERNATE LOCATIONS DEPENDING ON THE CONTRACTOR'S METHODS AND SEQUENCE OF OPERATIONS. THE CONTRACTOR SHALL ASSUME REGULAR REPLENISHMENT/REPLACEMENT OF CONSTRUCTION ENTRANCES TO MINIMIZE TRACKING OF SEDIMENTS.

15. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE SITE FOR OWNER PERSONNEL, OPERATIONS STAFF, AND REGULAR MAINTENANCE ACTIVITIES AT ALL TIMES. THE CONTRACTOR SHALL PLAN AND IMPLEMENT ALL NECESSARY STORMWATER POLLUTION PREVENTION AND EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO MAINTAIN COMPLIANCE WITH THE SWPPP AND SPDES PERMIT CONDITIONS, INCLUDING ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES, PERIMETER CONTROLS, SWEEPING, CLEANUP, AND MAINTENANCE AS NECESSARY DUE TO CONSTRUCTION ACTIVITIES AND THROUGH TRAFFIC GENERATED BY FACILITY OPERATIONS. ALL COSTS ASSOCIATED WITH SUCH WORK SHALL BE INCLUDED IN THE CONTRACT LUMP SUM.

16. DURING PERIODS OF MASS EXCAVATION AND HAULING, ENHANCED PROTECTION MEASURES SUCH AS TRUCK WASHES MAY BE REQUIRED TO MINIMIZE TRACKING OF SEDIMENTS. IT IS RECOMMENDED THAT WASH RACKS BE INCLUDED IN SUSCEPTIBLE CONSTRUCTION ENTRANCES.

17. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEARING OF ANY SEDIMENT TRACKED ON TO PAVED ROADWAYS THROUGHOUT THE SITE. WASHING OF THE SEDIMENT INTO ADJACENT WATERWAYS, DRAINAGE SWALES, STORM DRAIN SYSTEM, OR WETLANDS IS NOT PERMITTED. THE PAVED AREAS SHALL BE BROOM SWEPT AT A MINIMUM ONCE PER DAY WHEN THERE IS ACTIVE SOIL DISTURBANCE ON SITE. THE CONTRACTOR MAY NEED TO USE A SHOVEL TO REMOVE ACCUMULATED SEDIMENT AGAINST CURBS.

18. DUMP TRUCKS HAULING MATERIAL TO AND FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPAULIN.

19. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE FOR WHICH THEY ARE INTENDED AND SHALL REMAIN IN PLACE UNTIL SOILS ARE PERMANENTLY STABILIZED.

20. ALL INLETS IN PROJECT AREA, OR OTHERWISE IMPACTED BY PROJECT WORK (E.G., DOWNSTREAM OF WORK AREA OR WITHIN/NEAR TRAVEL AREAS), MUST HAVE PROTECTION. ADDITIONAL INLETS MAY REQUIRE PROTECTION AT DISCRETION OF THE QUALIFIED INSPECTOR OR ENGINEER.

21. FILTER SOCK INLET PROTECTION IS THE PREFERRED METHOD FOR INLET PROTECTION. DROP IN INLET PROTECTION BAGS MAY BE USED IN SELECT LOCATIONS WITH THE APPROVAL OF THE OWNER. HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING THE STORM DRAIN SYSTEM IF SEDIMENT FILTER BAGS ARE OVERTOPPED OR DAMAGED DURING REMOVAL AND SEDIMENT IS DISCHARGED INTO THE PIPE NETWORK.

22. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF FROM DISTURBED AREAS IS DIVERTED TO APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL DEVICES BEFORE ENTERING A WATER BODY, STORM DRAIN SYSTEM, OR WETLAND.

23. CLEARING, GRUBBING, AND VEGETATION REMOVAL SHALL BE LIMITED TO NO MORE THAN THAT INDICATED ON THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

24. THE CONTRACTOR MAY INSTALL TEMPORARY STABLE HAUL PATHS WHERE NECESSARY TO ENTER/EXIT AREAS OF PROPOSED WORK. TEMPORARY HAUL PATHS MUST BE REMOVED AND RE-GRADED AND THE AREA STABILIZED AND RESTORED IMMEDIATELY AFTER THE PATH IS NO LONGER NEEDED.

25. DUE TO THE CONFINED NATURE OF THE SITE, DEWATERING OF EXCAVATION AREAS SHALL BE PUMPED TO A PORTABLE SEDIMENT TANK. THE USE OF SEDIMENT FILTER BAGS OR SEDIMENT FILTER PUMP MAY ONLY BE USED AT SELECT LOCATIONS, IF APPROVED BY THE QUALIFIED INSPECTOR.

26. THE CONTRACTOR IS REQUIRED TO WASH ALL CONCRETE EQUIPMENT IN A DESIGNATED CONCRETE WASHOUT AREA THAT IS LOCATED A LEAST 100 FT AWAY FROM A WATER BODY. DUMPING OF CONCRETE WASTE MATERIALS ON THE GROUND IS NOT PERMITTED.

27. UNDER NO CONDITION SHALL DISCONTINUED CONSTRUCTION ACTIVITIES IN AREAS WITH SOIL DISTURBANCES BE LEFT FOR A PERIOD OF GREATER THAN 14 CALENDAR DAYS WHILE THE ACTIVE AREA OF DISTURBANCE IS LESS THAN 5 ACRES OR 7 CALENDAR DAYS WHILE THE ACTIVE AREA OF DISTURBANCE IS OVER 5 ACRES WITHOUT TEMPORARY STABILIZING THOSE AREAS WITH TEMPORARY SEED AND MULCH. MULCH SHALL BE MAINTAINED UNTIL SUITABLE VEGETATIVE COVER IS ESTABLISHED. 1

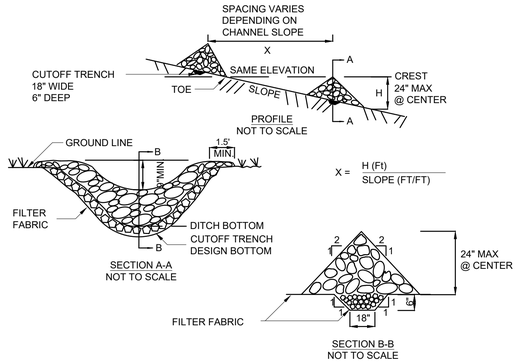
28. STORMWATER MANAGEMENT FACILITIES ARE TO BE CONSTRUCTED AS CLOSE TO THE END OF CONSTRUCTION AS FEASIBLE TO MINIMIZE IMPACTS FROM CONSTRUCTION DEBRIS, SEDIMENTATION, AND COMPACTION.

29. UNLESS DIRECTED OTHERWISE, ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED AND MULCHED FOR TURF ESTABLISHMENT.

30. ALL GRADED SURFACES WITH A FINISHED SLOPE OF 3H:1V OR GREATER SHALL BE STABILIZED WITH A TEMPORARY (6 TO 12 MONTH) BIODEGRADABLE ROLLED EROSION CONTROL PRODUCT.

31. WHEN THE PROJECT IS COMPLETED AND FULLY STABILIZED, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. ALL SEDIMENT REMOVED FROM EROSION CONTROL DEVICES SHALL BE DISPOSED OF ON SITE WHERE IT CANNOT BE WASHED INTO ANY WATERS.

32. 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 PREVIOUS 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 STRUCTURE, CONCRETE OR PAVEMENT.

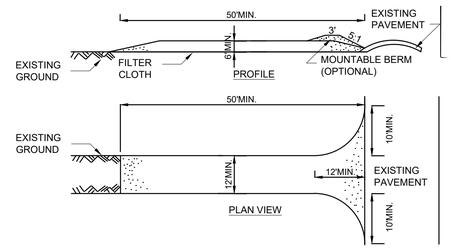


CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

   MAXIMUM DRAINAGE AREA 2 ACRES.
6. TEMPORARY CHECK DAMS WILL BE EVALUATED OVER THE DURATION OF THE COURSE OF CONSTRUCTION TO DETERMINE IF TO REMAIN AS PERMANENT. CONTRACTOR TO COORDINATE WITH ENGINEER PRIOR TO REMOVAL.

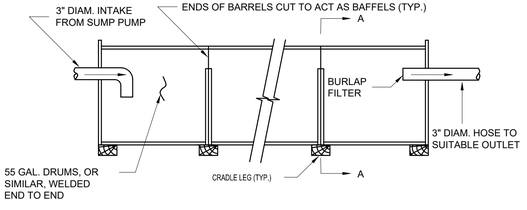
1 STONE CHECK DAM
C01-33



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

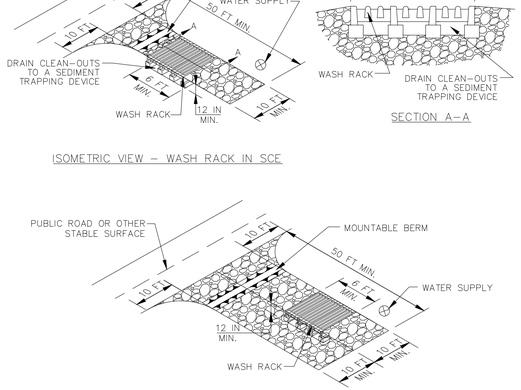
3 STABILIZED CONSTRUCTION ENTRANCE
C01-33



CONSTRUCTION SPECIFICATIONS

1. CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT.
2. STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANKS MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS ARE MET.
3. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE OR AS APPROVED BY THE INSPECTOR.

2 PORTABLE SEDIMENT TANK
C01-33



CONSTRUCTION SPECIFICATIONS

1. USE A WASH RACK DESIGNED AND CONSTRUCTED/MANUFACTURED FOR THE ANTICIPATED TRAFFIC LOADS. CONCRETE, STEEL, OR OTHER MATERIALS ARE ACCEPTABLE. PRE-FABRICATED UNITS SUCH AS CATTLE GUARDS ARE ACCEPTABLE. USE MINIMUM DIMENSION OF 6 FEET x 10 FEET. ORIENT DIRECTION OF RIBS AS SHOWN ON THE DETAIL.
2. INSTALL PRIOR TO, ALONG SIDE OF, OR AS PART OF THE SCE.
3. DIRECT WASH WATER TO AN APPROVED SEDIMENT TRAPPING DEVICE.
4. KEEP AREA UNDER WASH RACK FREE OF ACCUMULATED SEDIMENT. IF DAMAGED, REPAIR OR REPLACE WASH RACK.

4 WASH RACK
C01-33

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

JMDavidson Engineering, D.P.C.

SEALS

LICENSED PROFESSIONAL ENGINEER MICHAEL ANTHONY TERRANA 096826 STATE OF NEW YORK 9-26-26

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY
1	10/9/2026	ADDENDUM NO. 2	KMG

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2026

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: T. BROWN
DRAWN BY: T. BROWN
CHECKED BY: K. GREER

SHEET TITLE

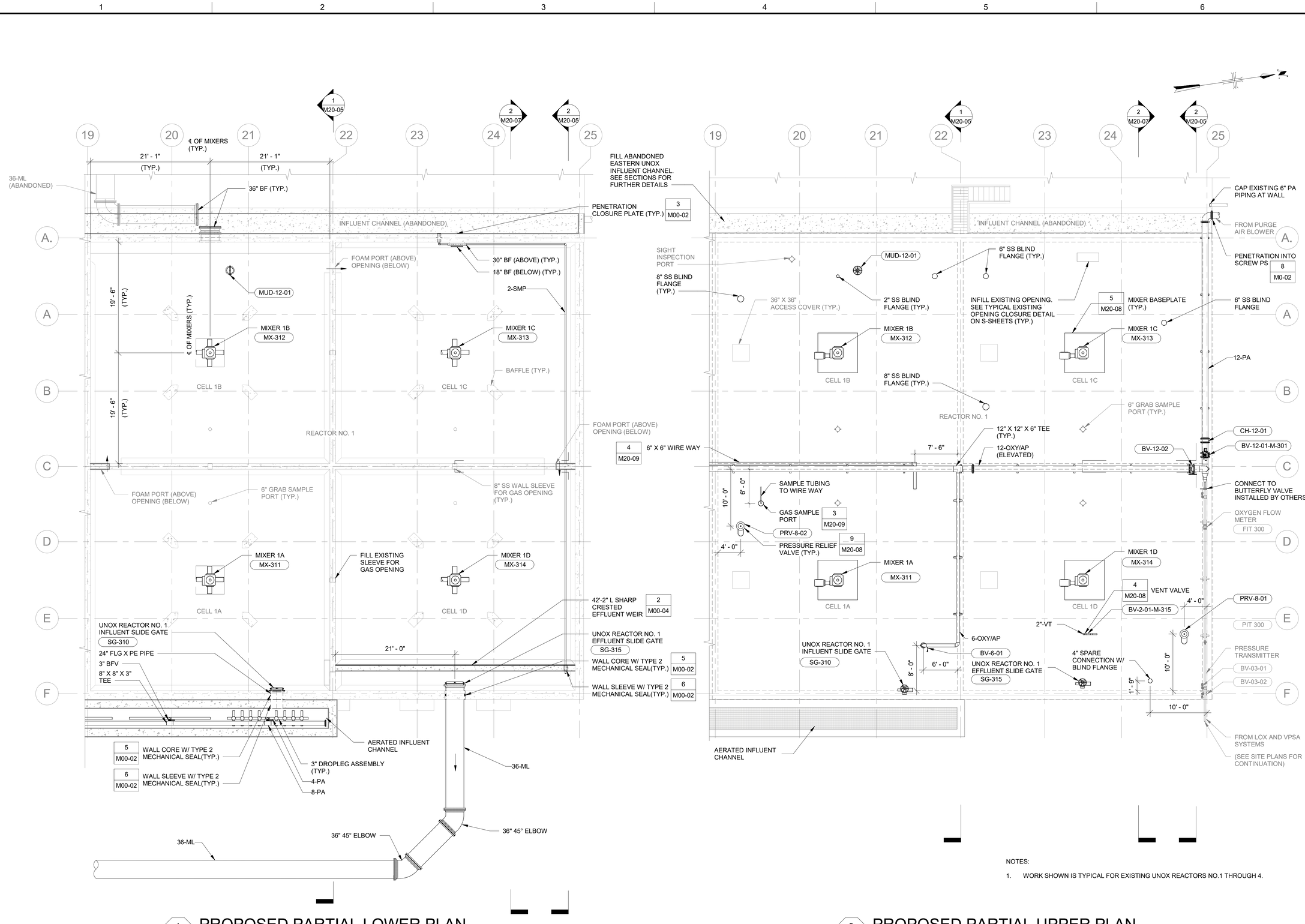
CIVIL

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - I

SCALE: N.T.S.
0 1
BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: C01-33
SHEET NO.: 53 OF

User:KRIST.AGREER Spec:AUS-NCSMOD File:V:\JMDAVIDSON PROJECTS - ACTIVE\122202 ECDSM SOUTHTOWNS EXPANSION\3.0 DWG - PH 2\3.3 CIVIL\C01-33.DWG Scale:1:1 SavedDate:10/8/2026 Time:15:22 Plot Date:10/8/2026 15:25 Layout:C01-33



NOTES:

1. WORK SHOWN IS TYPICAL FOR EXISTING UNOX REACTORS NO.1 THROUGH 4.

1 M20-01 PROPOSED PARTIAL LOWER PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

2 M20-02 PROPOSED PARTIAL UPPER PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

SEALS

STATE OF NEW YORK PATRICIA ANN O'LOUGHLIN 090505 LICENSED PROFESSIONAL ENGINEER

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS DRAWING IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.

BUFFALO, NEW YORK

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT

SOUTHTOWNS AWTF
PHASE 2 EXPANSION

CONTRACT NO. 75

REVISIONS

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS OF NEW YORK, INC. 2025

PROJECT STATUS: BID READY

PROJECT NO.: 30119430
DATE: SEPTEMBER 2026
DESIGNED BY: C. CATCHPOLE
DRAWN BY: G. GHANGALE
CHECKED BY: P. O'LOUGHLIN

SHEET TITLE

MECHANICAL

UNOX REACTORS

UNOX REACTOR NO. 1
ENLARGED PLANS

SCALE: 1/8" = 1'-0"
BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.: M20-03
SHEET NO.: ____ OF 100