

# Construction Stormwater Pollution Control Plan

Southeastern Connecticut Regional  
Resources Recovery Authority  
132 Route 12  
Preston, Connecticut 06365

**SCS ENGINEERS**

02220718.03 | May 2024

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# 1 SITE DESCRIPTION

Southeastern Connecticut Regional Resources Recovery Authority (SCRRRA) plans to construct a commercial scale aerated static pile food composting facility. The proposed facility will be the first and only large-scale aerobic food waste composting facility in southeastern Connecticut, fulfilling an infrastructure need in a historically underserved region. This document presents the Stormwater Pollution Control Plan (SWPCP) prepared in accordance with CTDEEP's General Permit for the Discharge and Dewatering Wastewaters from Construction Activities – General Permit DEEP-WPED-GP-015 (**Appendix A**).

The project site (the site) is currently undeveloped and is lightly forested with some grassland. The lot is owned by SCRRRA and is 33.67 acres in total. A significant portion of the lot is leased to American Ref-fuel Company (i.e., Covanta waste-to-energy facility). The compost facility will be located south of Brewster Road and will occupy about 7.5 acres. The area for the facility will be cleared, partially paved, and concrete composting bunkers will be installed along with a receiving building, scale, retention pond, etc. The current conditions of the project area are shown in Drawing #2 in **Appendix B**.

The estimated impervious area of the site after construction is 78.55%. The average runoff coefficient of the site after construction is completed is 0.76. Calculations are included in **Appendix C**. Sanitary wastewater from a single bathroom in the scalehouse will connect to an existing sanitary sewer system in Brewster Road.

The site topography slopes slightly to the north and stormwater flow direction is anticipated to be to the north. Stormwater will initially flow into a temporary sediment basin, which will be converted into a stormwater pond upon completion of the project. Most stormwater will be recycled into the composting process. Excess stormwater will flow into an existing recharge basin, which is how stormwater is managed currently. There are no waterbodies on the property. The ultimate receiving waterbody is presumably the Thames River, after stormwater infiltrates into the soil underlying the recharge basin. The Thames River is not listed in the Wild and Scenic Rivers system. The site is underlain by Windsor loamy sand and Hinckley loamy sand, 0 to 3 percent slopes. Soil information is included in the supporting figures provided in **Appendix D**.

There are no wetlands or floodplains mapped at the site (**Appendix E**). A letter dated November 17, 2023 confirms that there are no wetlands at the site (**Appendix F**). Note that the letter names “122 Route 12” instead of the site address, 132 Route 12; this is believed to be a typographical error.

The site is located within a Coastal Area (**Appendix E**) and an application was submitted to the Town of Preston. Approval from the Town of Preston Planning and Zoning Commission is included in **Appendix F**.

Mining operations are not performed at the property. There are no federally recognized Indian lands on the property. The property is not mapped within an aquifer protection area. There are no historic and/or archeological resources mapped at the property. There are no conservation or preservation restrictions mapped at the property.

There are no endangered species mapped within the project area (**Appendix E**); however, there is a portion of the greater tax parcel that is mapped with endangered species. A Natural Diversity Data Base (NDDDB) determination was requested and received from the CTDEEP. The response indicated that the big sand tiger beetle may be located near the project area, and it was recommended that

SCRRRA seek help from a biologist (**Appendix F**). The State Invertebrate Biologist, Laura Saucier, will conduct a site visit this Spring and assess how the proposed drawings (**Appendix B**) can be modified to enhance habitat for the target species.

Construction activities will be performed in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. A permit set of drawings including pre-construction conditions, erosion and sediment controls during construction, and post-construction conditions is provided in **Appendix B**.

## PROJECT TEAM

The project team is as follows:

Personnel	Title	Company	Contact No.
David Aldridge	Executive Director	SCRRRA	860-381-5558
Winston Averill	Regional Recycling Coordinator	SCRRRA	860-381-5558
Gregory P. McCarron, PE	Project Director (SCS) Professional Engineer (PE)	SCS Engineers	914-588-1368
Christine Stokes	Project Manager (SCS)	SCS Engineers	845-661-4970
Construction Contractor	To be determined		



## 2 CONSTRUCTION SEQUENCING

Construction is scheduled to commence in Spring 2025. The following is a summary of the sequence of construction for the project:

Action/Phase	Estimated Start	Estimated Completion	Description
Silt Fence and Construction Entrance	March 2025	March 2025	A survey will be conducted to identify the extents of disturbance. A silt fence will be placed around the site. A construction entrance will be made of filter fabric and clean stone. A security fence and gates will be installed around the site.
Temporary Sediment Basin	April 2025	April 2025	Vegetation will be cleared in the planned area of the sediment basin, and the basin will be graded. The slopes will be seeded and covered with erosion control matting and a porous baffle and riser will be installed.
Other Erosion and Stormwater Controls	May 2025	May 2025	The remaining vegetated areas will be cleared to the total extent of disturbance. The remaining stormwater control measures will be installed. These include two catch basins, two diversion ditches/stone check dams, riprap protection, erosion control mats, and temporary seeding. Partial grading of the site will also occur at this time.
Building Construction	June 2025	July 2025	The receiving and mixing building will be constructed, including a new concrete foundation.
Asphalt and Asphalt Millings	August 2025	August 2025	Asphalt pavement will be installed to cover the roadways, the 50' apron outside the receiving and mixing building, and the sales stockpile area. The remaining area of the site will be covered in asphalt millings.

The permit set of drawings (**Appendix B**) shows the location and details of the construction area, including the location of the erosion and sediment control measures.

### 3 CONTROL MEASURES

#### EROSION AND SEDIMENT CONTROL MEASURES

Erosion and sediment control measures will be implemented according to the Connecticut Guidelines for Soil Erosion and Sediment Control. The permit set includes details of each erosion and sediment control measure and is included in **Appendix B**.

Before construction activities commence, a silt fence will be installed around the construction site, which will minimize the displacement of sediment throughout the project activities. Then, a stabilized construction entrance will be constructed of filter fabric and clean stone to minimize off-site tracking. A construction fence and gates will also be installed around the site for security purposes. Existing vegetation within the site will be cleared and grubbed as construction progresses.

A temporary sediment basin will be constructed at the northern extent of the construction site. Stormwater flow direction will be to the north. Temporary seed and erosion control matting will be applied to the slopes of the sediment basin. A porous baffle will be installed at the northern edge of the sediment basin to reduce flow velocity into the sediment basin. A riser outlet structure will also be installed; the outlet will connect to an existing perforated metal pipe that discharges to an existing recharge basin north of the site.

Following the construction of the sediment basin, clearing and grubbing of the remaining vegetation will be completed. Site work and grading will commence, including the installation of storm drains and drainage features.

Two catch basins will be installed: one at the northeast corner, and one at the northwest corner. Silt fence will be installed around each catch basin to decrease sediment flow into the catch basins.

Two diversion ditches will be constructed across the site; One will be located at the eastern perimeter of the site, and one will be located in the northwestern area of the site. Erosion control matting and temporary seed will be applied on the slopes of each ditch. Stone check dams will be added to these ditches, which will decrease flow velocity and sediment displacement of stormwater run-on to the site.

Riprap outlet protection will be re-installed around existing pipe outlets, if necessary. Areas that will not be disturbed again for 30 days will receive temporary seeding within 14 days, or if at final grade, permanent seeding.

Following the completion of the construction, the sediment basin will be converted into a permanent stormwater detention pond. The porous baffle and excess sediment will be removed, and necessary modifications to the riser/outlet structure will be made. In addition, temporary erosion and sediment controls will be removed, including the silt fence.

The following table summarizes the details of each erosion and sediment control included in the permit set (**Appendix B**):

Erosion & Sediment Control	Sheet Number	Detail Number
Temporary Construction Entrance	6	1
Geotextile Silt Fence	6	2
Stone Check Dam	6	3
Diversion Ditch	6	4
Riprap Stabilization	6	5
Non-traffic Catch Basin Inlet	6	6
Asphalt Millings	7	7
Asphalt Pavement	7	8
Erosion Control Matting	7	9
Sediment Basin	7	10
Porous Baffle	7	11
Contact Water Tank	8	18
Contact Water Sump	8	19

## RUNOFF REDUCTION AND LOW IMPACT DEVELOPMENT INFORMATION

The temporary sediment basin will be converted to a stormwater detention pond following construction activities, and it will work as a runoff reduction measure. Calculations supporting the construction details of the sediment basin are included in **Appendix C**. Most stormwater will be recycled into the composting process. Excess stormwater will flow into an existing recharge basin, which is how stormwater is managed currently. Excess stormwater will infiltrate into the soil underlying the recharge basin.

Further, compost contact water will be collected in a sump located between the windrows and the stormwater detention pond. Contact water will be pumped and stored in a 12,500-gallon above-ground storage tank to the southeast of the receiving and mixing building. The maintenance of the stormwater detention pond and contact water sump and tank is discussed in Section 4. The areas suitable for infiltration are south of the windrows and will be vegetated, and areas disturbed during construction activities to the east and west will also be re-vegetated.

## IMPAIRED WATERS

There are no discharges to waterbodies listed in the Impaired Waters Table for Construction Stormwater Discharges.

## 4 POST-CONSTRUCTION STORMWATER CONTROLS

The estimated post-construction drainage area is 5.6 acres. Because this construction project qualifies as “Other Development,” according to the General Permit, the water quality volume must be retained for the site.

The site will be graded so that it slopes gently to the north. Various erosion and sediment control measures implemented during construction will be left in place as post-construction stormwater controls.

The temporary sediment basin will be converted into a permanent stormwater detention pond. At the end of the construction, accumulated sediment and the temporary baffle will be removed, and the slopes will be re-seeded as necessary.

Most stormwater, detained in the stormwater pond, will be recycled into the composting process. Excess stormwater will flow into an existing recharge basin, which is how stormwater is managed currently. Excess stormwater will infiltrate into the soil underlying the recharge basin. Sediment in the stormwater pond will be cleaned out regularly.

The water quality volume will be detained by the stormwater detention pond. Calculations supporting the construction details of the stormwater detention pond are included in **Appendix C**. Riprap outlet protection will also stay in place. Remaining unpaved areas will be seeded as necessary, and slopes will be stabilized as necessary.

## 5 MAINTENANCE AND INSPECTIONS

Regular maintenance and inspections will occur according to the Connecticut Stormwater Quality Manual and Connecticut Guidelines for Erosion and Sediment Control. Inspection checklists are provided in **Appendix G**. Inspections will be conducted by qualified professionals, as defined in the General Permit. Each inspector's qualifications are included in **Appendix H**.

The Plan Implementation Inspection will be conducted by the designing qualified professional during the initial phase of construction (i.e., following the installation of as erosion and sediment control measures). The inspection report must be submitted to the Commissioner to confirm compliance with the general permit. The inspection includes a comprehensive visual check of the following:

- Temporary Construction Entrance
- Geotextile Silt Fence
- Stone Check Dam
- Diversion Ditch
- Riprap Stabilization
- Non-traffic Catch Basin Inlet

Routine Inspections will be conducted weekly. Routine inspections include a comprehensive visual check of each erosion and sediment control measure for evidence of the following:

- Accumulation of sediment or debris at inlet and outlet structures
- Erosion, settlement, or slope failure
- Clogging or buildup of fines on infiltration surfaces
- Vegetative stress and appropriate water levels for emergent vegetation
- Algae growth, stagnant pools, or noxious odors
- Deterioration of pipes or conduits
- Seepage at the toe of ponds
- Deterioration or sedimentation in downstream channels and energy dissipators
- Evidence of vandalism
- Evidence of structural damage by beavers, muskrats, and other wildlife

Non-routine inspections are also necessary following a storm event that generates a discharge. Inspections must be conducted within 24 hours of the end of a storm. For storms that end after which normal working hours will not commence within 24 hours, inspection is still required within 24 hours for storms that exceed 0.5-inch. Inspections that follow storms of less than 0.5-inch may be conducted when normal working hours commence. Inspections should assess the same measures as a routine inspection.

Routine maintenance will be performed as necessary and may include the following:

- Debris and litter removal
- Silt and sediment removal
- Terrestrial vegetation maintenance
- Aquatic vegetation maintenance
- Maintenance of mechanical components (valves, gates, access hatches, locks)

Non-routine maintenance may also be necessary and can include erosion and structural repair, sediment disposal, and nuisance control (odors, mosquitos, weeds).

A Termination Inspection will be conducted following the conclusion of all construction activities. The Termination Inspection will include a comprehensive visual inspection of the following:

- Stone Check Dam
- Diversion Ditch
- Riprap Stabilization
- Non-traffic Catch Basin Inlet
- Asphalt Millings
- Asphalt Pavement
- Erosion Control Matting
- Sediment Basin

Maintenance of erosion and sediment control measures should continue post-construction to keep structures in good working condition and maintain Best Management Practices (BMPs).


## 6 REGISTRANT CERTIFICATION

I hereby certify that I am making this certification in connection with a registration under such general permit, submitted to the commissioner by Southeastern Connecticut Regional Resources Recovery Authority for an activity located at 132 Route 12 Preston, Connecticut and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(b)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law.

### **Southeastern Connecticut Regional Resources Recovery Authority**

Name: David Aldridge

Title: Executive Director

Signature: 

Date: May 17, 2024

## 7 PROFESSIONAL ENGINEER CERTIFICATION

I hereby certify that I am a professional engineer licensed in the State of Connecticut. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by Southeastern Connecticut Regional Resources Recovery Authority for an activity located at 132 Route 12 Preston, Connecticut. I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such Plan are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law.

### SCS Engineers

Name: Gregory P. McCarron, PE Title: Project Director

Signature: *Greg McCarron* Date: May 17, 2024



## 8 SWPCP MODIFICATIONS

This SWPCP must be modified when there is a change in design, construction, operation, or maintenance at the facility which may have an effect on the potential for the discharge of pollutants from the facility which have not been addressed in the SWPCP; when the SWPCP is found to be ineffective in eliminating or significantly minimizing pollutants from sources identified or not achieving the goals of the permits; or, when there is a corrective action requiring modification of the SWPCP. Corrective action documentation is included in **Appendix I**.

SWPCP modifications will include a map or description of the area as required; modification to stormwater controls with the corrective action needed; and, the additional inspections monitoring and/or analysis required. A log containing the data and signature of the person doing the modifications is included in **Appendix J**. As described previously, and regardless of the requirements for corrective action modification, the SWPCP should also be reviewed and signed by a member of the team.

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Name and Date

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Name and Date

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Name and Date

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Name and Date

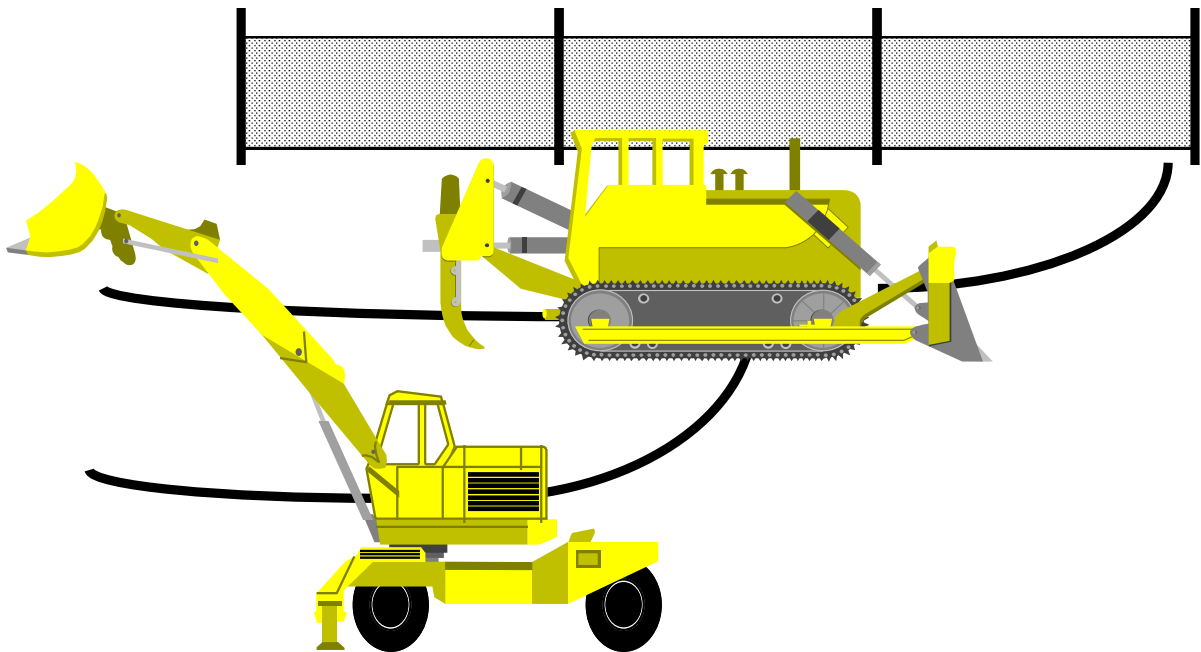
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Name and Date



Appendix A  
General Permit (DEEP-WPED-GP-015)

# General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities



Effective Date: December 31, 2020  
Modification Date: November 25, 2022  
Expiration Date: December 20, 2025

Printed on recycled paper

# General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

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# General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

## Section 1. Authority

This general permit is issued under the authority of section 22a-430b of the Connecticut General Statutes.

## Section 2. Definitions

The definitions of terms used in this general permit shall be the same as the definitions contained in section 22a-423 of the Connecticut General Statutes and section 22a-430-3(a) of the Regulations of Connecticut State Agencies. All references to an Appendix in this general permit means the applicable Appendix of this general permit. As used in this general permit, the following definitions shall apply:

*“x-year, 24-hour rainfall event”* means the maximum 24-hour precipitation event with a probable recurrence interval of once in the given number of years (i.e. x=2, 25 or 100), as defined by the National Oceanic and Atmospheric Administration (NOAA) Atlas 14, Volume 10, Version 2, Point Precipitation Frequency Estimates (as amended), or equivalent regional or state rainfall probability information developed therefrom.

*“Annual sediment load”* means the total amount of sediment carried by stormwater runoff on an annualized basis.

*“Aquifer protection area”* has the same meaning as provided in section 22a-354h of the Connecticut General Statutes.

*“Best engineering practices”* means the design of engineered control measures to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable.

*“CFR”* means the Code of Federal Regulations.

*“Coastal area”* means coastal area as defined in section 22a-93(3) of the Connecticut General Statutes.

*“Coastal waters”* means coastal waters as defined in section 22a-93(5) of the Connecticut General Statutes.

*“Commissioner”* means the Commissioner of Energy and Environmental Protection or the Commissioner’s designee.

*“Construction activity”* means any activity and discharges associated with construction at a site or the site’s preparation for construction, including, but not limited to, clearing, grubbing, pile driving, soil disturbance, soil compaction by construction equipment, staging and stockpiling, cleaning and washout, grading, excavation, and dewatering.

*“DOT”* means the State of Connecticut Department of Transportation.

*“Department”* means the Department of Energy and Environmental Protection.

*“Designing qualified professional”* means the qualified professional engineer or qualified soil erosion and sediment control professional, as defined below, who developed the original Stormwater Pollution Control Plan for which authorization was granted under this general permit.

“*Developer*” means a person who or municipality which is responsible, either solely or partially through contract, for the design and construction of a project site.

“*Dewatering wastewater*” means wastewater associated with the construction activity generated from the lowering of the groundwater table, the pumping of accumulated stormwater or uncontaminated groundwater from an excavation, the pumping of surface water from a cofferdam, or pumping of other surface water that has been diverted into a construction site.

“*District*” means a soil and water conservation district established pursuant to section 22a-315 of the Connecticut General Statutes. Appendices E and F list the Districts, their geographic delineations, and contact information.

“*Disturbance*” means the area on a site where soil will be exposed or susceptible to erosion during any construction activity.

“*Effective Impervious Cover*” is the area of impervious cover that is hydraulically connected to a water or wetland by means of continuous paved surfaces, gutters, swales, ditches, drain pipes or other conventional conveyance and detention structures that do not reduce runoff volume. Impervious cover is a surface composed of any material that impedes or prevents infiltration of water into the soil. Impervious surfaces shall include, but are not limited to, roofs, solid decks, driveways, patios, sidewalks, parking areas, tennis courts, concrete or asphalt streets, or compacted soils or compacted gravel surfaces.

“*Engineered stormwater management system*” means any control measure and related appurtenances which requires engineering analysis and/or design by a professional engineer.

“*Erosion*” means the detachment and movement of soil or rock fragments by water, wind, ice and gravity.

“*Final stabilization*” for a site authorized by this general permit means that no disturbed areas remain exposed, there is no active erosion or sedimentation present on the site, and that vegetation or permanent non-vegetative ground cover, as specified in the Permittee’s Plan, have been fully established over the entire site.

“*Fresh-tidal wetland*” means a tidal wetland with an average salinity level of less than 0.5 parts per thousand.

“*General Permit*” means the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities issued by the Commissioner effective on December 31, 2020.

“*Groundwater*” means those waters of the state that naturally exist or flow below the surface of the ground.

“*Guidelines*” means the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, established pursuant to section 22a-328 of the Connecticut General Statutes.

“*High Quality Waters*” means those waters defined as high quality waters in RCSA 22a-426-1, as may be amended.

“*Impaired water(s)*” means those surface waters of the state designated by the commissioner as impaired pursuant to Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report.

“*In Responsible charge*” means professional experience for which the Commissioner determines that a professional’s primary duties consistently involve a high level of responsibility and decision making in the planning and designing of engineered stormwater management systems or in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects. The Commissioner

shall consider the following in determining whether a professional's experience qualifies as responsible charge experience:

- (i) the level of independent decision-making exercised;
- (ii) the number of individuals and the disciplines of the other professionals that the professional supervised or coordinated;
- (iii) the extent to which a professional's responsibilities consistently involved the review of work performed by other professionals involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects;
- (iv) the extent to which a professional's responsibilities consistently involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects and whether such responsibilities were an integral and substantial component of the professional's position;
- (v) the nature of a professional's employer's primary business interests and the relation of those interests to planning and designing of engineered stormwater management systems or to planning and designing of soil erosion and sediment controls for residential and commercial construction projects;
- (vi) the extent to which a professional has engaged in the evaluation and selection of scientific or technical methodologies for planning and designing of engineered stormwater management systems or for planning and designing of soil erosion and sediment controls for residential and commercial construction projects;
- (vii) the extent to which a professional drew technical conclusions, made recommendations, and issued opinions based on the results of planning and designing of engineered stormwater management systems or of planning and designing of soil erosion and sediment controls for residential and commercial construction projects; or
- (viii) any other factor that the Commissioner deems relevant.

*"Individual permit"* means a permit issued to a specific permittee under section 22a-430 of the Connecticut General Statutes.

*"Inland wetland"* means wetlands as defined in section 22a-38 of the Connecticut General Statutes.

*"Landscape Architect"* means a person with a currently effective license issued in accordance with chapter 396 of the Connecticut General Statutes.

*"Linear Project"* includes the construction of roads, railways, bridges, bikeways, conduits, substructures, pipelines, sewer lines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities in a long, narrow area.

*"Locally approvable project"* means a construction activity for which the registration is not for a municipal, state or federal project and is required to obtain municipal approval for the project.

*"Locally exempt project"* means a construction activity for which a registration is required under this general permit and which is not a locally approvable project.



*“Low Impact Development”* or *“LID”* means a site design strategy that maintains, mimics or replicates pre-development hydrology through the use of numerous site design principles and small-scale treatment practices distributed throughout a site to manage runoff volume and water quality at the source.

*“Minimize”*, for purposes of implementing the control measures in Section 5(b)(2) of this general permit, means to reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.

*“Municipal separate storm sewer system”* or *“MS4”* means conveyances for stormwater (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) owned or operated by any municipality, DOT or by any other state or federal institution (as defined in the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems) and discharging to surface waters of the state.

*“Municipality”* has the same meaning as provided in section 22a-423 of the Connecticut General Statutes.

*“Normal Working Hours”* are considered to be, at a minimum, Monday through Friday, between the hours of 8:00 am and 6:00 pm, unless additional working hours are specified by the permittee.

*“Permittee”* means any person who or municipality which initiates, creates or maintains a discharge in accordance with Section 3 of this general permit.

*“Person”* means person as defined in section 22a-423 of the Connecticut General Statutes.

*“Phase”* means a portion of a project possessing a distinct and complete set of activities that have a specific functional goal wherein the work to be completed in the phase is not dependent upon the execution of work in a later phase in order to make it functional.

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

*“Professional Engineer”* or *“P.E.”* means a person with a currently effective license issued in accordance with chapter 391 of the Connecticut General Statutes.

*“Qualified Inspector”* means an individual possessing either (1) a professional license or certification by a professional organization recognized by the commissioner related to agronomy, civil engineering, landscape architecture, soil science, and two years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (2) five years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (3) certification by the DOT. For purposes of solar array projects, a Qualified Inspector shall be selected as specified in Appendix I of the general permit.

*“Qualified professional engineer”* means a professional engineer who has, for a minimum of eight years, engaged in the planning and designing of engineered stormwater management systems for residential and commercial construction projects in accordance with the Guidelines and the Stormwater Quality Manual including, but not limited to, a minimum of four years in responsible charge of the planning and designing of engineered stormwater management systems for such projects. Such qualified professional engineer shall remain in good standing with the Connecticut Department of Consumer Protection and the Commissioner.

*“Qualified soil erosion and sediment control professional”* means a landscape architect or a professional engineer who: (1) has for a minimum of eight years engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge of the planning and designing of soil erosion and sediment controls for such projects; or (2) is currently certified as a professional in erosion and sediment control as designated by EnviroCert International, Incorporated (or other certifying organization acceptable to the commissioner) and has, for a minimum of six years, engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge in the planning and designing of soil erosion and sediment controls for such projects. Such qualified soil erosion and sediment control professional shall remain in good standing with the Connecticut Department of Consumer Protection and the Commissioner.

*“Registrant”* means a person or municipality that files a registration.

*“Registration”* means a registration filed with the commissioner pursuant to Section 4 of this general permit.

*“Regulated Municipal Separate Storm Sewer System”* or *“Regulated MS4”* means any MS4 (as defined above) authorized by the most recently issued General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, as well as the separate storm sewer system of the DOT and the City of Stamford including all those located partially or entirely within an Urbanized Area and those additional MS4s located outside an Urbanized Area as may be designated by the commissioner.

*“Retain”* means to hold runoff on-site to promote vegetative uptake and groundwater recharge through the use of runoff reduction or LID practices or other measures. In addition, it means there shall be no subsequent point source release to surface waters from a storm event defined in this general permit or as approved by the commissioner.

*“Runoff reduction practices”* means those post-construction stormwater management practices used to reduce post-development runoff volume delivered to the receiving water, as defined by retaining the volume of runoff from a storm up to the first half inch or one inch of rainfall. Runoff reduction is quantified as the total annual post-development runoff volume reduced through canopy interception, soil amendments, evaporation, rainfall harvesting, engineered infiltration, extended filtration or evapo-transpiration.

*“Sediment”* means solid material, either mineral or organic, that is in suspension, is transported, or has been moved from its site of origin by erosion.

*“Site”* means geographically contiguous land on which a construction activity takes place or on which a construction activity for which authorization is sought under this general permit is proposed to take place. Non-contiguous land or water owned by the same person shall be deemed the same site if such land is part of a linear project (as defined in this section) or is otherwise connected by a right-of-way, which such person controls.

*“Soil”* means any unconsolidated mineral and organic material of any origin.

*“Soil Scientist”* shall be as defined in Conn. Gen. Stat. § 22a-38.

*“Solar array”* means an on-the-ground installation of arrays of photovoltaic cell panels, supporting structures and related equipment for the production of electricity.

*“Stabilize”* means the use of measures as outlined in the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, or as approved by the commissioner, to prevent the visible movement of soil particles and development of rills.

“*Standard of care*”, as used in Section 3(b), means to endeavor to perform in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances.

“*Structural measure*” means a measure constructed for the temporary storage and/or treatment of stormwater runoff.

“*Stormwater*” means waters consisting of rainfall runoff, including snow or ice melt during a rain event.

“*Stormwater Pollution Control Plan*”, “*SWPCC*”, or “*Plan*” means the stormwater pollution control plan required under Section 5(b) of the general permit and approved by Commissioner as part of the approval of a registration.

“*Stormwater Quality Manual*” means the 2004 Connecticut Stormwater Quality Manual published by the Connecticut Department of Energy & Environmental Protection, as amended.

“*Surface water*” means that portion of waters, as the term “waters” is defined in section 22a-423 of the Connecticut General Statutes, located above the ground surface.

“*Tidal wetland*” means a wetland as that term is defined in section 22a-29(2) of the Connecticut General Statutes.

“*Total disturbance*” means the total area of disturbance on a site during all phases of construction activity.

“*Total Maximum Daily Load*” or “*TMDL*” means the maximum capacity of a surface water to assimilate a pollutant as established by the commissioner, including pollutants contributed by point and non-point sources and a margin of safety.

“*Upland soils*” means soils which are not designated as poorly drained, very poorly drained, alluvial, or flood plain by the National Cooperative Soils Survey, as may be amended, of the Natural Resources Conservation Service of the United States Department of Agriculture and/or the inland wetlands agency of the municipality in which the project will take place.

“*Water company*” means water company as defined in section 25-32a of the Connecticut General Statutes.

“*Waters*” shall be as defined in Conn. Gen. Stat. § 22a-423, and for clarification shall include vernal pools and intermittent waters.

“*Water Quality Standards*” means the water quality standards in RCSA 22a-426-1 et seq, and the classification maps adopted pursuant to section 22a-426 of the Connecticut General Statutes, as both may be amended.

“*Water Quality Volume*” or “*WQV*” means the volume of runoff generated by one inch of rainfall on a site as defined in the 2004 Connecticut Stormwater Quality Manual, as amended.

“*Wetland*” shall mean and include both “wetland” as defined in Conn. Gen. Stat. § 22a-29 and “wetlands” as defined in Conn. Gen. Stat. § 22a-38.

### **Section 3. Authorization Under This General Permit**

#### **(a) Eligible Activities**

This general permit authorizes construction activities and associated stormwater and dewatering wastewater discharges on a site, as defined in this general permit, with a total disturbance of one or more acres of land area on a site, *regardless of project phasing*.

In the case of a larger plan of development (such as a subdivision), the estimate of total acres of site disturbance shall include, but is not limited to, road and utility construction, individual lot construction (e.g. house, driveway, septic system, etc.), and all other construction associated with the overall plan, regardless of the individual parties responsible for construction of these various elements.

#### **(b) Requirements for Authorization**

This general permit authorizes the construction activity and associated discharges listed in the “Eligible Activities” section (Section 3(a)) of this general permit provided:

##### **(1) Coastal Management Act**

Such construction activity must be consistent with all applicable goals and policies in section 22a-92 of the Connecticut General Statutes, and must not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes. Please refer to the Appendix D for additional guidance.

##### **(2) Endangered and Threatened Species**

Such activity must not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and must not result in the destruction or adverse modification of habitat designated as essential to such species. See Appendix A for conditions and requirements for compliance.

##### **(3) Aquifer Protection Areas**

Such construction activity, if it is located within an aquifer protection area as mapped under section 22a-354b of the General Statutes, must comply with regulations adopted pursuant to section 22a-354i of the General Statutes. Please refer to the Appendix C for additional guidance.

For any construction activity regulated pursuant to sections 22a-354i-8(c) and 9(b) of the Regulations of Connecticut State Agencies (Aquifer Protection Regulations), the Stormwater Pollution Control Plan (Plan) must assure that stormwater run-off generated from the regulated construction activity (i) is managed in a manner so as to prevent pollution of groundwater, and (ii) complies with all the requirements of this general permit.

##### **(4) Mining Operations Exception**

The stormwater discharge resulting from an activity classified by the Standard Industrial Classification 10 and 12 through 14 (the mining industry) is not eligible to be authorized by this general permit and is regulated under the most recently issued General Permit for the Discharge of Stormwater Associated with Industrial Activity.

##### **(5) Discharge to POTW**

The stormwater is *not* discharged to a Publicly Owned Treatment Works (POTW).

(6) Discharge to Groundwater

The stormwater is *not* discharged entirely to groundwater under all conditions before, during or after construction.

(7) Such construction activity must be consistent with the Wild and Scenic Rivers Act (16 U.S.C. 1271-1287) for those river components and tributaries which have been designated as Wild and Scenic by the United States Congress. Further, such construction activities must not have a direct and adverse effect on the values for which such river designation was established. Please refer to Appendix H for additional guidance.

(8) Certification Requirements for Registrants and other Individuals

As part of the registration for this general permit, the registrant and any other individual or individuals responsible for preparing the registration submits to the commissioner a written certification which, at a minimum, complies with the following requirements:

(A) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification has completely and thoroughly reviewed, at a minimum, this general permit and the following regarding the activities to be authorized under such general permit:

- (i) all registration information provided in accordance with Section 4(c)(2) of such general permit;
- (ii) the project site, based on a site inspection;
- (iii) the Stormwater Pollution Control Plan; and
- (iv) any plans and specifications and any Department approvals regarding such Stormwater Pollution Control Plan;

(B) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification pursuant to this general permit has, based on the review described in section 3(b)(8)(A) of this general permit, made an affirmative determination to:

- (i) comply with the terms and conditions of this general permit;
- (ii) maintain compliance with all plans and documents prepared pursuant to this general permit including, but not limited to, the Stormwater Pollution Control Plan;
- (iii) properly implement and maintain the elements of the Stormwater Pollution Control Plan; and
- (iv) properly operate and maintain all stormwater management systems in compliance with the terms and conditions of this general permit to protect the waters of the state from pollution;

(C) Such registrant and any other individual or individuals responsible for preparing the registration certifies to the following statement: "I hereby certify that I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT

ADDRESS OF PROJECT OR ACTIVITY] and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(b)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

- (9) The registrant has submitted to the commissioner a written certification by a professional engineer or, where appropriate, a landscape architect licensed in the State of Connecticut for the preparation, planning and design of the Stormwater Pollution Control Plan ("Plan" or "SWPCP") and stormwater management systems:

The professional engineer or landscape architect shall certify to the following statement:

"I hereby certify that I am a [professional engineer][landscape architect] licensed in the State of Connecticut. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such Plan are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

- (10) Plan Review and Certification by a District for Locally Approvable Projects

For locally approvable Plans not reviewed in accordance with Section 3(b)(11), below, the registrant has submitted to the commissioner a written certification by the appropriate regional District for the review of the Stormwater Pollution Control Plan pursuant to Appendix E, which, at a minimum, complies with the following requirements:

- (A) the Plan Review Certification must be signed by the District. Information on the District review process is outlined in the Memorandum of Agreement provided in Appendix E. In cases where the District is unable to complete review of the Plan within the time limits

specified in the Memorandum of Agreement in Appendix E, a notice to that effect signed by the District may be submitted in lieu of the certification.

(B) the Stormwater Pollution Control Plan has been prepared in accordance with the requirements of Section 5(b) of the general permit.

(11) Plan Review and Certification by a Qualified Soil Erosion and Sediment Control Professional and Qualified Professional Engineer for Locally Approvable Projects

For those Plans not reviewed in accordance with Section 3(b)(10), above, the registrant has submitted to the commissioner a written certification by a qualified professional engineer or a qualified soil erosion and sediment control professional in accordance with the following requirements:

- (A) for projects disturbing more than one acre and less than fifteen (15) acres, such qualified soil erosion and sediment control professional or qualified professional engineer:
- (i) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant; and
  - (ii) has no ownership interest of any kind in the project for which the registration is being submitted.
- (B) for projects disturbing fifteen (15) acres or more, such qualified soil erosion and sediment control professional or qualified professional engineer:
- (i) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant;
  - (ii) did not engage in any activities associated with the preparation, planning, designing or engineering of such plan for soil erosion and sediment control or plan for stormwater management systems on behalf of such registrant;
  - (iii) is not under the same employ as any person who engaged in any activities associated with the preparation, planning, designing or engineering of such plans and specifications for soil erosion and sediment control or plans and specifications for stormwater management systems on behalf of such registrant; and
  - (iv) has no ownership interest of any kind in the project for which the registration is being submitted.
- (C) The qualified professional engineer or qualified soil erosion and sediment control professional signing the certification has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under such general permit:
- (i) all registration information provided in accordance with Section 4(c)(1) of such general permit;
  - (ii) the site, based on a site inspection;
  - (iii) the Stormwater Pollution Control Plan;
  - (iv) the Guidelines;

- (v) the Stormwater Quality Manual, if applicable; and
- (vi) all non-engineered and engineered stormwater management systems, including any plans and specifications and any Department approvals regarding such stormwater management systems.

(D) Affirmative Determination

- (i) The qualified soil erosion and sediment control professional signing the certification must have made an affirmative determination, based on the review described in section 3(b)(11)(C) of this general permit that:
  - (a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the project or activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and
  - (b) all non-engineered stormwater management systems:
    - (1) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;
    - (2) will function properly as designed;
    - (3) are adequate to ensure compliance with the terms and conditions of this general permit; and
    - (4) will protect the waters of the state from pollution.
- (ii) The qualified professional engineer signing the certification must have made an affirmative determination, based on the review described in section 3(b)(11)(C) of this general permit that:
  - (a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and
  - (b) all non-engineered and engineered stormwater management systems:
    - (1) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;
    - (2) will function properly as designed;
    - (3) are adequate to ensure compliance with the terms and conditions of this general permit; and



(4) will protect the waters of the state from pollution.

(E) The qualified professional engineer or qualified soil erosion and sediment control professional shall, provided it is true and accurate, certify to the following statement:

"I hereby certify that I am a qualified professional engineer or qualified soil erosion and sediment control professional, or both, as defined in the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and as further specified in sections 3(b)(11)(A) and (B) of such general permit. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(11)(C) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination in accordance with Sections 3(b)(11)(D)(i) and (ii) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

(12) Plan Review and Certification for Projects Conducted by State Agencies

For projects conducted by a state agency (e.g. DOT, DAS, etc.), the registering agency has submitted to the commissioner a written certification by a qualified professional engineer or a qualified soil erosion and sediment control professional in accordance with the following requirements:

- (A) the registering agency or another state agency has developed a process to establish a list of qualified professional engineers and qualified soil erosion and sediment control professionals for which the process to qualify has been approved in writing by the commissioner;
- (B) the qualified professional engineer or qualified soil erosion and sediment control professional reviewing and certifying the Plan is included on the list prepared by a state agency and for which the process to establish the list has been approved by the commissioner pursuant to Section 3(b)(12)(A), above;
- (C) the qualified professional engineer or qualified soil erosion and sediment control professional signing the certification has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under such general permit:
  - (i) all registration information provided in accordance with Section 4(c)(2) of such general permit;
  - (ii) the site, based on a site inspection;
  - (iii) the Stormwater Pollution Control Plan;

- (iv) the Guidelines;
- (v) the Stormwater Quality Manual, if applicable; and
- (vi) all non-engineered and engineered stormwater management systems, including any plans and specifications and any Department approvals regarding such stormwater management systems.

(D) Affirmative Determination

- (i) The qualified soil erosion and sediment control professional signing the certification must have made an affirmative determination, based on the review described in section 3(b)(12)(C) of this general permit that:
  - (a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the project or activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and
  - (b) all non-engineered stormwater management systems:
    - (1) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;
    - (2) will function properly as designed;
    - (3) are adequate to ensure compliance with the terms and conditions of this general permit; and
    - (4) will protect the waters of the state from pollution.
- (ii) The qualified professional engineer signing the certification must have made an affirmative determination, based on the review described in section 3(b)(12)(C) of this general permit that:
  - (a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and
  - (b) all non-engineered and engineered stormwater management systems:
    - (1) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;
    - (2) will function properly as designed;
    - (3) are adequate to ensure compliance with the terms and conditions of this general permit; and

(4) will protect the waters of the state from pollution.

- (E) The qualified professional engineer or qualified soil erosion and sediment control professional shall, provided it is true and accurate, certify to the following statement:

"I hereby certify that I am a qualified professional engineer or qualified soil erosion and sediment control professional, or both, as defined in the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and as further specified in sections 3(b)(12)(A) and (B) of such general permit. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(12)(C) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination in accordance with Sections 3(b)(12)(D)(i) and (ii) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

- (F) Projects conducted by a state agency under this subparagraph (Section 3(b)(12)) shall be submitted in accordance with the requirements in Sections 3(c), 3(g)(1)(B) and 4(c)(2)(A)(i).

(13) New Discharges to Impaired Waters

- (A) For impaired waters identified in the State's most recent Integrated Water Quality Report, new stormwater discharges proposed in a registration submitted under this general permit that will discharge directly to such waters must comply with the requirements of (13)(B), below, if such report indicates the cause or potential cause of the impairment as one of the following:
- (i) Site Clearance (Land Development or Redevelopment)
  - (ii) Post-Development Erosion and Sedimentation
  - (iii) Source Unknown (if cause of impairment is Sedimentation/Siltation)
- (B) Such stormwater discharge is authorized if the permittee complies with the requirements of Section 5(b)(3) of this permit and receives a written affirmative determination from the commissioner that the discharge meets the requirements of that section. In such case, the permittee must keep a copy of the written determination onsite with the Plan. If the permittee does not receive such affirmative determination, the construction activity is not authorized by this general permit and must obtain an individual permit.

(14) Solar Arrays

For constructions activities associated with the development of a solar array that is locally exempt, as those respective terms are defined in Section 2, in addition to the other requirements of this general permit a Permittee shall also comply with the requirements in Appendix I.

(15) Cold Water Stream Habitat

Unless otherwise authorized in writing by the Commissioner, a Permittee shall maintain a one-hundred (100) foot buffer of undisturbed soil and well-established vegetation between any construction activity and any stream, river, or tributary that is included within a Cold Water Stream Habitat as defined at: <https://portal.ct.gov/DEEP/Water/Inland-Water-Monitoring/Cold-Water-Stream-Habitat-Map>.

(16) Other Requirements for Authorization

The following requirements for authorization shall apply to all projects:

(A) Prior to commencement of any construction activity, the Permittee shall conduct a preconstruction meeting with the qualified professional who designed the project, the qualified inspector who will be conducting inspections, and all site contractors and subcontractors to be involved in construction. Such meeting shall convey the design, stormwater control measures, erosion and sediment controls, plan implementation and routine site inspections, and contract requirements for the project prior to earth disturbance. Such meeting shall also include a site walk of the project site. In the case of solar arrays and any other projects that may be reviewed and/or inspected by a District, the preconstruction meeting and site walk shall also include the appropriate District personnel. The Permittee shall ensure that the date of such meeting and a report summarizing the meeting shall be prepared and retained in the Permittee's Plan.

(B) The following contractor certification shall be signed by all contractors and subcontractors that will perform construction activities on the site that have the potential to cause pollution of the waters of the State:

"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as a contractor or subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this general permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for the site."

Such signed certifications shall be maintained with the Plan on-site at all times.

(C) The designing qualified professional shall conduct the Plan Implementation Inspection(s) pursuant to Section 5(b)(4)(A) and shall submit such Plan Implementation Inspection report(s) to the commissioner confirming compliance with the general permit and proper initial implementation of all control measures designated in the Plan for the initial phase of construction. In the case of solar arrays and any other projects that may be reviewed and/or inspected by a District, the Plan Implementation Inspection(s) shall also include the appropriate District personnel.

(D) For locally approvable projects, the permittee shall indicate whether any financial assurance was required by the town in which the project is being conducted and, if so, indicate what type of assurance was required and in what amount.

(E) Nothing in this subsection or permit shall be construed to authorize District personnel, a qualified soil erosion and sediment control professional or a qualified professional engineer to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(F) Failure to comply with any provisions of Section 3(b)(16) is a violation of this general permit and shall be grounds for the commissioner to revoke authorization.

(G) **Specific Provisions Applicable to Projects Conducted by State Agencies**

(i) Permittee shall conduct a preconstruction meeting with the contractor that conveys the design, stormwater control measures, plan implementation and routine site inspections, erosion and sediment controls, and contract requirements for the project prior to earth disturbance. Such meeting shall include a site walk of the project site.

(ii) The DOT District Engineer, District Environmental Coordinator, or the designated employee of another state agency shall conduct the Plan Implementation Inspection(s) pursuant to Section 5(b)(4)(A) of the general permit and shall submit such Plan Implementation Inspection report(s) to the Commissioner confirming compliance with the general permit and proper initial implementation of all control measures designated in the Plan for the initial phase of construction.

(iii) The State is not required to provide evidence of financial assurance.

(c) **Registration**

Pursuant to the “Registration Requirements” section (Section 4) of this general permit, a completed registration with respect to the construction activity shall be filed with the commissioner.

(d) **Small Construction**

For construction projects with a total disturbance of between one and five acres, the permittee shall adhere to the erosion and sediment control land use regulations of the municipality in which the construction activity is conducted, as well as the Guidelines and the Stormwater Quality Manual.

No registration or Plan review and certification shall be required for such construction activity provided a land-use commission of the municipality (i.e. planning/zoning, wetland, conservation, etc) reviews and issues a written approval of the proposed erosion and sediment control measures, pursuant to the requirements of section 22a-329 of the Connecticut General Statutes. In the absence of a municipal commission to review and approve such activity, the permittee shall register with the DEEP under the requirements for a Locally Exempt Project and comply with all applicable conditions of this general permit.

(e) **Geographic Area**

This general permit applies throughout the State of Connecticut.

(f) **Effective Date and Expiration Date of this General Permit**

This General Permit shall be effective at 12:00 a.m. on December 31, 2020. The provisions of this General Permit shall expire as of 11:59 p.m. on December 30, 2025.

**(g) *Effective Date of Authorization***

A construction activity is not authorized by this general permit unless a registration has been approved by the Commissioner and the following conditions have been met:

(1) General Timelines

- (A) for locally approvable projects, sixty (60) days have elapsed after the submission of a complete and sufficient registration form required by Section 4(c) of the general permit, or
- (B) for locally exempt projects with a total disturbed area of under fifteen (15) acres, sixty (60) days have elapsed after the submission of a complete and sufficient registration form required by Section 4(c), or
- (C) for locally exempt projects with a total disturbed area equal to or more than fifteen (15) acres, ninety (90) days have elapsed after the submission of a complete and sufficient registration form required by Section 4(c) of the general permit.

(2) Exceptions to Authorization Timelines

If one of the following conditions applies, that condition shall supersede those of subsection (1), above:

- (A) for sites for which the registration and Plan availability and review provisions of Section 4(e) of the general permit are completed prior to the elapse of the authorization periods in subdivision (1), above, the commissioner may authorize the activity upon such completion, or
- (B) for sites for which the conditions of Section 3(b)(2), 3(b)(13) or Section 5(a)(2) of the general permit apply, the activity is authorized only upon the date of the commissioner's affirmative determination and/or approval of a registration, or
- (C) for sites authorized by any previous version of this general permit and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" of that general permit, the activity is authorized effective December 31, 2020. Authorization under this general permit shall cease if a re-registration form is not submitted within one hundred twenty (120) days of the effective date of this general permit.

**(h) *Revocation of an Individual Permit***

No person shall seek authorization under this general permit for a construction activity authorized by an individual permit. If a construction activity is eligible for authorization under this general permit and such activity is presently authorized by an individual permit, the existing individual permit may be revoked by the commissioner upon a written request by the permittee. If the commissioner revokes such individual permit in writing, such revocation shall take effect on the effective date of authorization of such activity under this general permit.

**(i) *Issuance of an Individual Permit***

If the commissioner issues an individual permit under section 22a-430 of the Connecticut General Statutes, authorizing a construction activity authorized by this general permit, this general permit shall cease to authorize that activity beginning on the date such individual permit is issued.

## Section 4. Registration Requirements

### (a) *Who Must File a Registration*

With the exception noted in the “Small Construction” section (Section 3(d)) of this general permit, any person or municipality which initiates, creates, originates or maintains a discharge described in the “Eligible Activities” section (Section 3(a)) of this general permit shall file with the commissioner a registration form (or, for existing permittees, a re-registration form) that meets the requirements of the “Contents of Registration” section (Section 4(d)) of this general permit (or a re-registration form) and the applicable fee within the timeframes and in the amounts specified in Sections 4(c) and 4(d)(1)(A), respectively. Any such person or municipality filing a registration remains responsible for maintaining compliance with this general permit.

### (b) *Scope of Registration*

Each registration shall be limited to the discharge at or from one site; no registration shall cover discharges at or from more than one site.

### (c) *Registration Procedure*

#### (1) Locally Approvable Projects

The registration must:

- (A) Be electronically submitted, along with all required elements in subsections (B) through (E), below, at least sixty (60) days prior to the planned commencement of the construction activity. Failure to include any of these required submissions shall, among other potential reasons, be grounds to reject the registration.
- (B) Include the electronic Registration Form (available at [www.ct.gov/deep/stormwater](http://www.ct.gov/deep/stormwater)).
- (C) Include any additional forms and information that may be required pursuant to the “Requirements for Authorization” section (Section 3(b) of the general permit) regarding compliance and/or consistency with the Coastal Management Act, Impaired Waters (including TMDL requirements), Endangered and Threatened Species, and Aquifer Protection Areas.
- (D) Include an electronic copy of the Stormwater Pollution Control Plan. The electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in this electronic copy any pages or other material that do not pertain to stormwater management or erosion and sediment control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).
- (E) Include a Plan Review Certification in accordance with the plan review certification requirements of either Section 5(b)(10) or 5(b)(11) of the general permit.

#### (2) Locally Exempt Projects

The registration must be electronically submitted, along with all required elements in subsections (B), (C) and (D) of this section. The sixty (60) or ninety (90) day periods cited in subparagraph (A) of this subdivision shall not begin until all required elements have been submitted. Failure to include any of these required submissions shall be grounds to reject the registration. A registration shall:

- (A) Be submitted at least:
    - (i) sixty (60) days prior to the planned commencement of the construction activity if the site has a total disturbance of between one (1) and fifteen (15) acres; *or*
    - (ii) ninety (90) days prior to the planned commencement of construction activity if the site:
      - (a) has a total disturbance greater than fifteen (15) acres;
      - (b) discharges to a tidal wetland (that is not a fresh-tidal wetland) within 500 feet of the discharge point; *or*
      - (c) is subject to the impaired waters provisions of Section 3(b)(13) of the general permit.
  - (B) Include the electronic Registration Form (available at [www.ct.gov/deep/stormwater](http://www.ct.gov/deep/stormwater)).
  - (C) Include any additional forms and information that may be required pursuant to Section 3(b) of the general permit, “Requirements of Authorization”, regarding compliance and/or consistency with the Coastal Management Act, Impaired Waters (including TMDL requirements), Endangered and Threatened Species, Solar Array provisions and Aquifer Protection.
  - (D) Include an electronic copy of the Stormwater Pollution Control Plan (Plan) (or a web address where the electronic Plan can be downloaded) for the commissioner’s review. The electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in this electronic copy any pages or other material that do not pertain to stormwater management or erosion and sediment control (such as electrical and lighting plans, A-2 boundary or similar lot surveys, building plans, non-stormwater related detail sheets, etc.).
- (3) Re-Registration of Existing Projects
- (A) *Re-Registration.* In order for discharges to continue to be authorized, a Permittee with a registration previously approved by the Commissioner under any previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and for which no Notice of Termination has been submitted pursuant to the “Termination Requirements” of that general permit shall submit a re-registration. Any such registration shall:
    - (i) be submitted no later than one hundred twenty (120) days after the effective date of this general permit using an electronic Re-Registration Form (available at [www.ct.gov/deep/stormwater](http://www.ct.gov/deep/stormwater)) pursuant to Section 4(c)(3) of the general permit; and
    - (ii) be accompanied by the fee set forth in Section 4(d)(1)(A)(iii) of the general permit unless that section provides for the waiver of such fee. Resubmission of a Permittee’s Plan is not required with a re-registration provided, however, that such Plan shall be provided to, if requested by, the commissioner. Such Plan shall be provided within the time frame provided for in any request, or if no timeframe is provided, within thirty (30) days of the date of any such request.
  - (B) *Existing Projects that are not re-registered.* Discharges at or emanating from a site, for a Permittee with a registration previously approved by the Commissioner, that is not re-registered in accordance with this section shall no longer be authorized. Any re-registration



received more than one hundred twenty (120) days after the effective date of this general permit shall be considered to be a new registration, and shall not be eligible for any exemption from, or waiver of, any condition or requirement of this general permit, as specified in this section, and shall instead be required to comply with this general permit as if it were a new project, i.e., a project that had not been previously registered.

- (C) *Exemption for Existing Projects Upon Re-Registration.* A Permittee that submits a re-registration in compliance with this section shall, except as provided in this section, comply with the terms and conditions of this general permit, including, but not limited to, the Plan in effect for the site. Any such Permittee shall be exempt from compliance with Sections 3(b)(15) and 5(b)(2)(D)(vi) of this general permit and, for a Permittee submitting a re-registration for construction of a solar array, shall be exempt from paragraphs (1) and (2) of Section I, Design and Construction requirements, in Appendix I and Section II, Design requirements for post-construction stormwater management measures in Appendix I.

Note: For clarification purposes, the provisions of this general permit, including any updates to a Permittee's Plan, shall not apply retroactively to construction activities that may have already commenced – or been completed - before a Permittee submits a re-registration pursuant to section 4(c)(3) of this general permit. For example, the plan implementation inspections required by Section 5(b)(4)(A) of this general permit would not be applicable to a phase of construction already begun at the time a re-registration is submitted. By contrast, compliance with those same plan implementation inspection requirements would be required for each phase of construction that commences after a re-registration is submitted.

(4) Latest Date for New Registrations

Unless another date is specified by the Commissioner on the Department's Internet website ([www.ct.gov/deep/stormwater](http://www.ct.gov/deep/stormwater)), no person shall submit a registration under this general permit on or after October 1, 2025.

**(d) Contents of Registration**

(1) Fees

(A) Registration Fee

A registration, if required, shall not be deemed complete unless the registration fee has been paid in full.

(i) Locally Approvable Projects

A registration fee of \$625.00 shall be submitted to the Department with the registration form.

(ii) Locally Exempt Projects

A registration fee shall be submitted with a registration form as follows:

- (a) For sites with total disturbance of one (1) or more acres, but less than fifteen (15) acres, the fee shall be \$3,000.
- (b) For sites with total disturbance equal to or greater than fifteen (15) acres and less than fifty (50) acres, the fee shall be \$4,000.

- (c) For sites with total disturbance equal to or greater than fifty (50) acres, the fee shall be \$5,000.

The fees for municipalities shall be half of those indicated in subsections (a), (b) and (c) above pursuant to section 22a-6(b) of the Connecticut General Statutes. State and Federal agencies shall pay the full fees specified in this subsection.

(iii) Re-registration

- (a) For sites that registered under the previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities prior to August 1, 2019 and for which no Notice of Termination has been submitted pursuant to the “Termination Requirements” section (Section 6), the re-registration fee shall be \$625 payable with submission of the re-registration form within one hundred twenty (120) days from the effective date of this general permit. If a Notice of Termination is submitted prior to January 1, 2020, no re-registration or associated fee are required.
- (b) For sites that registered under the previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities on or after August 1, 2019 and for which no Notice of Termination has been submitted pursuant to the “Termination Requirements” section (Section 6), the permittee shall re-register and there is no re-registration fee.

(B) The registration fee shall be paid electronically or by check or money order payable to the Department of Energy & Environmental Protection in accordance with the instructions on the registration form.

(C) The registration fee is non-refundable.

(2) Registration Form

A registration shall be filed electronically on forms prescribed and provided by the commissioner (available at: [www.ct.gov/deep/stormwater](http://www.ct.gov/deep/stormwater)).

A registration shall include, but not be limited to, the following:

- (A) Legal name, address, email address, and telephone number of the registrant. If the registrant is a person (as defined in Section 2 of this permit) transacting business in Connecticut and is registered with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.
- (B) Legal name, address, email address, and telephone number of the owner of the property on which the construction activity will take place.
- (C) Legal name, address, email address, and telephone number of the primary contact for departmental correspondence and inquiries, if different from the registrant.
- (D) Legal name, address, email address, and telephone number of the developer of the property on which the construction activity is to take place.
- (E) Legal name, address, email address, and daytime and off-hours telephone numbers of the general contractor(s) or other representative(s), if different from the developer.

- (F) Legal name, address, email address, and telephone number of any consultant(s), engineer(s) or landscape architect(s) retained by the permittee to prepare the registration and Stormwater Pollution Control Plan.
- (G) Location address or description of the site for which the registration is filed.
- (H) The estimated duration of the construction activity.
- (I) Indication of the normal working hours at the site.
- (J) A brief description of the construction activity, including, but not limited to:
  - (i) Total number of acres to be disturbed, regardless of phasing.
  - (ii) Verification that construction is in accordance with the Guidelines and local erosion and sediment control ordinances, where applicable.
  - (iii) For sites in the Coastal Boundary, documentation that the DEEP Office of Long Island Sound Programs or local governing authority has issued a coastal site plan approval or a determination that the project is exempt from coastal site plan review (see Appendix D) in accordance with section 22a-92 and 22a-93(15) of the Connecticut General Statutes.
  - (iv) Documentation that the construction activity will not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and will not result in the destruction or adverse modification of habitat designated as essential to such species (see Appendix A).
  - (v) For sites discharging to certain impaired waters, as specified in Section 3(b)(13) of the general permit, documentation that the construction activity meets the requirements of that section and Section 5(b)(3) of the general permit for authorization under this general permit.
  - (vi) Verification that the construction activity is not located within an aquifer protection area (see Appendix C) as mapped under section 22a-354b of the Connecticut General Statutes or, if it is located within an aquifer protection area, that the construction activity will comply with regulations adopted pursuant to section 22a-354i of the Connecticut General Statutes.
  - (vii) For a proposed locally approvable project, a plan review certification from the appropriate District, qualified soil erosion and sediment control professional, and/or qualified professional engineer in accordance with Section 5(b)(10) or (11) or a notice from the District that they were unable to complete the Plan review within the time limits specified in the Memorandum of Agreement in Appendix E.
  - (viii) For construction activities within one-hundred (100) feet of any stream, river, or tributary that is included within a Cold Water Stream Habitat, as may be authorized by the Commissioner pursuant to Section 3(b)(15) of this general permit, a completed Fisheries Consultation Form or documentation of official interagency coordination between the Fisheries Division and other state agency staff.

- (K) A brief description of the stormwater discharge, including:
  - (i) The name of the municipal separate storm sewer system or immediate surface water body or wetland to which the stormwater runoff will discharge;
  - (ii) Verification of whether or not the site discharges to a tidal wetland (that is not a fresh-tidal wetland) within 500 feet of the discharge point, to a high quality water or to an impaired water with or without a TMDL;
  - (iii) The name of the watershed or nearest waterbody to which the site discharges.
  - (iv) Location of the stormwater discharge(s) including latitude and longitude.
- (L) The total effective impervious cover for the site before and after the proposed construction activity.
- (M) Documentation that the proposed construction activity has been reviewed for consistency with state Historic Preservation statutes, regulations, and policies including identification of any potential impacts on property listed or eligible for listing on the Connecticut Register of Historic Places. A review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this qualification. Refer to Appendix G for guidance on conducting the required review.
- (N) An electronic copy of their Plan. The electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in this Plan any pages or other material that do not pertain to stormwater management or erosion and sediment control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).
- (O) The certification of the registrant and of the individual or individuals responsible for actually preparing the registration, in accordance with Section 3(b)(8) of the general permit.
- (P) A design certification must be signed by a professional engineer or, where appropriate, a landscape architect in accordance with Section 3(b)(9) of the general permit.
- (Q) For registrations for locally approvable projects a review certification must be signed by either: (i) a District representative in accordance with Section 3(b)(10) of the general permit, or (ii) a qualified soil erosion and sediment control professional and/or qualified professional engineer in accordance with either Section 3(b)(11) of the general permit.

If the registrant is not capable of submitting electronically, contact the DEEP stormwater staff at [DEEP.stormwaterstaff@ct.gov](mailto:DEEP.stormwaterstaff@ct.gov).

### (3) Re-Registration Form

For sites previously registered under any previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and for which no Notice of Termination has been submitted pursuant to the “Termination Requirements” in Section 6 of the general permit, a re-registration is required. Such re-registration shall be filed electronically on forms prescribed and provided by the commissioner (available at: [www.ct.gov/deep/stormwater](http://www.ct.gov/deep/stormwater)) and shall include, but not be limited to, the following:

- (A) Legal name, address, email address, and telephone number of the registrant. If the registrant is a person transacting business in Connecticut and is registered with the Connecticut

Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.

- (B) The previously issued permit number (beginning with GSN).
- (C) Legal name, address, email address, and telephone number of the owner of the property on which the construction activity will take place.
- (D) Legal name, address, email address, and telephone number of the primary contact for departmental correspondence and inquiries, if different from the registrant.
- (E) Legal name, address, email address, and telephone number of the developer of the property on which the subject construction activity is to take place.
- (F) Legal name, address, email address, and daytime and off-hours telephone numbers of the general contractor(s) or other representative(s), if different from the developer.
- (G) Legal name, address, email address, and telephone number of any consultant(s) or engineer(s) retained by the permittee to prepare the registration and Stormwater Pollution Control Plan.
- (H) Location address or description of the site for which the re-registration is filed.
- (I) Indication of the normal working hours at the site.
- (J) The estimated duration of the construction activity.
- (K) The signature of the registrant and of the individual or individuals responsible for actually preparing the re-registration, each of who shall certify in writing as follows:

“I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that all designs and plans for such activity meet the current terms and conditions of the general permit in accordance with Section 5(b)(5)(C) of such general permit and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law.”

**(e) *How to Submit a Registration***

A registration or re-registration (available at: [www.ct.gov/deep/stormwater](http://www.ct.gov/deep/stormwater)) shall be filed electronically with the commissioner in accordance with Section 4(d)(2) or (3) of the general permit. If a permittee is not capable of submitting electronically, contact the DEEP stormwater staff at [DEEP.stormwaterstaff@ct.gov](mailto:DEEP.stormwaterstaff@ct.gov).

**(f) *Availability of Registration and Plan***

The commissioner shall post on the DEEP website a list of registrations submitted. Plans will be posted electronically with the corresponding registration. On or before thirty (30) days from the date such registration is accessible to the public through posting by the commissioner, members of the public may review and comment on a registration and/or Plan. This provision shall not apply to Permittee's submitting a re-registration for sites registered under any previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" in Section 6 of the general permit.

**(g) *Additional Information***

The commissioner may require a Permittee to submit additional information that the commissioner deems necessary to evaluate compliance of the subject construction activity with the requirements for authorization under this general permit.

**(h) *Additional Notification***

- (1) No later than five (5) days after submitting a registration to the commissioner, the Permittee shall provide the following additional notifications:
  - (A) For discharges authorized by this general permit to a regulated municipal separate storm sewer system, a notification that a registration has been submitted to the Department shall also be submitted to the owner and operator of that system.
  - (B) For discharges authorized by this general permit to a DOT separate storm sewer system, a copy of the registration and all attachments thereto shall also be submitted to the DOT upon request.
  - (C) For discharges within a public drinking water supply watershed or aquifer protection area, a copy of the registration and the Plan described in subsection 5(b) of this general permit shall be submitted to the water company.
  - (D) For discharges to river components and tributaries which have been designated as Wild and Scenic under the Wild and Scenic Rivers Act, a copy of the registration and the Plan described in 5(b) of this general permit shall be submitted to the applicable Wild and Scenic Coordinating Committee. Please refer to Appendix H for additional guidance.
- (2) The Permittee shall ensure that a copy of the registration submitted to the Commissioner and the Plan shall be available upon request to the local inland wetlands agency established pursuant to section 22a-42 of the Connecticut General Statutes, or its duly authorized agent.

**(i) *Action by Commissioner***

- (1) The commissioner may reject without prejudice a registration that the commissioner deems insufficient. For example, if it does not satisfy the requirements of the "Contents of Registration"

section (subsection 4(d)) of this general permit. Any registration refiled after such a rejection shall be accompanied by the fee specified in the “Fees” subsection (subsection 4(d)(1)) of this general permit.

- (2) The commissioner may disapprove a registration if it does not comply with the requirements of this general permit or for any other reason provided for by law. For example, if it is inconsistent with the requirements for authorization under the “Requirements for Authorization” section (Section 3(b)) of this general permit, or an individual permit is required pursuant to Conn. Gen. Stat. § 22a-430b(c). Disapproval of a registration under this subsection shall constitute notice to the registrant that the subject construction activity must be authorized under an individual permit.
- (3) Rejection or disapproval of a registration by the commissioner shall be in writing and state the reasons for such rejection or disapproval.
- (4) Pursuant to Conn. Gen. Stat. § 22a-430b(c), the commissioner may require that a person or municipality obtain an individual permit, in which case, such person or municipality will be ineligible for authorization under this general permit.
- (5) When approving a registration, the commissioner may include in any such approval any term or condition the commissioner deems necessary to protect human health and the environment..

## **Section 5. Conditions of this General Permit**

The permittee shall comply with all of the requirements of this general permit at all times. In addition, a permittee shall be responsible for conducting authorized construction activities in accordance with the following conditions:

### **(a) General Conditions**

- (1) Structures and Dredging in Coastal and Tidal Areas

Any person who or municipality that discharges stormwater into coastal tidal waters for which a permit is required under section 22a-361 of the Connecticut General Statutes (structures and dredging) or section 22a-32 of the Connecticut General Statutes (Tidal Wetlands Act), shall obtain such permit(s) from the commissioner. A tidal wetland permit is required for any regulated activity conducted within a tidal wetland, including, but no limited to, the placement of any sediment upon a tidal wetland, whether it is deposited directly or indirectly.

- (2) Discharges to Tidal Wetlands

Any site which has a post-construction stormwater discharge to a tidal wetland (that is not a fresh-tidal wetland) where such discharge is within 500 feet of the tidal wetland, shall discharge such stormwater through a system designed to retain and infiltrate the volume of stormwater runoff generated by 1 inch of rainfall on the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the commissioner’s review and written approval, which explains the site limitations and offers an alternative retention volume. In such cases, the portion of 1 inch that cannot be retained must be provided with additional stormwater treatment so as to protect water quality. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual.

For sites unable to comply with this section, the commissioner, at the commissioner’s sole discretion, may require the submission of an individual permit in lieu of authorization under this general permit.

(3) Toxicity to Aquatic and Marine Life/Risk to Human Health

Any discharge authorized under this general permit shall not cause pollution due to acute or chronic toxicity to aquatic and marine life, impair the biological integrity of aquatic or marine ecosystems, or result in an unacceptable risk to human health.

(4) Water Quality Standards

Any discharge authorized under this general permit shall not cause or contribute to an exceedance of the applicable Water Quality Standards in the receiving water.

(5) High Quality Waters

Any new or increased discharge authorized under this general permit to high quality waters shall be discharged in accordance with the Anti-Degradation Implementation requirements in the Water Quality Standards, section 22a-426-8 of RCSA.

**(b) Stormwater Pollution Control Plan**

All Permittees shall develop and maintain on-site a Stormwater Pollution Control Plan (“Plan” or “SWPCP”) for the construction activity authorized by this general permit. Once the construction activity begins, the permittee shall perform all actions required by such Plan and shall maintain compliance with the Plan at all times. The permittee shall ensure that the design and implementation of the Plan minimizes: (1) soil erosion and sedimentation during and after construction; and (2) stormwater pollution from the site after construction is completed.

(1) Development and Contents of Plan

(A) The Plan shall consist of site plan drawings and a narrative. The Plan shall be prepared in accordance with sound engineering practices, and shall be consistent with the Guidelines, the Stormwater Quality Manual (available at <http://www.ct.gov/deep/stormwater>) and any applicable requirements of this general permit. The Plan shall also be consistent with any remedial action plan, closure plan or other plan required by any other DEEP permit.

(B) The Plan shall include, at a minimum, the following items:

(i) Site Plan

Site drawings indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, the location of major structural and non-structural controls (as specified in subsection 5(b)(2), below), the location of areas where stabilization practices are expected to occur, areas which will be vegetated following construction, surface waters, impaired waters (identifying those with and without a TMDL), high quality waters, inland wetlands, tidal wetlands, fresh-tidal wetlands, and locations where stormwater will be discharged to a surface water (both during and post-construction);

(ii) Site Description

(a) A narrative description of the nature of the construction activity;

(b) An estimate of the total area of the site and the total area of the site that is expected to be disturbed by construction activities;



- (c) An estimate of the average runoff coefficient of the site after construction activities are completed;
- (d) The name of the immediate receiving water(s) and the ultimate receiving water(s) of the discharges authorized by this general permit; and
- (e) Extent of wetland acreage on the site.

(iii) Construction Sequencing

The Plan shall clearly identify the expected sequence of all construction activities on the site and corresponding erosion and sediment controls and shall include an estimated timetable for all construction activities, which shall be revised as necessary to keep the Plan current. Wherever practicable, site construction activities shall be phased to avoid the disturbance of over five acres at one time (or a lesser area of disturbance as required in Section 5(b)(3) of the general permit regarding “Impaired Waters”. In addition, permanent stormwater control measures, including, but not limited to, stormwater basins should be constructed, where practicable, in the early phases of the construction sequence. The Plan shall clearly show the limits of total disturbance for the construction activity and for each phase.

(iv) Control Measures

The Plan shall include a description, in a separate narrative and on the site plan drawings, of control measures that will be implemented at the site to minimize the discharge of pollutants. Control measures shall be implemented in accordance with Section 5(b)(2) of the general permit. In addition, the following information shall be provided:

- (a) Calculations supporting the design of sediment and floatables removal controls pursuant to Section 5(b)(2)(C)(ii)(b) of the general permit.
- (b) Calculations supporting the design of velocity dissipation controls pursuant to Section 5(b)(2)(C)(ii)(c) of the general permit.

(v) Runoff Reduction and Low Impact Development (LID) Information

Where runoff reduction practices and/or LID measures are utilized, the following information shall be included in the site plan and narrative (refer to Appendix B for guidance):

- (a) The location of the site’s streams, floodplains, all wetlands, riparian buffers, slopes 3:1 and steeper, and vegetation identified for preservation and non-disturbance during construction such as forested areas, hay fields, and old fields;
- (b) Natural drainage patterns, swales, and other drainage ways, that are not streams, floodplains, or wetlands;
- (c) The location of all areas with soils suitable for infiltration<sup>1</sup> and areas of the site best suited for infiltration for the siting of runoff reduction practices and LID design measures;

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<sup>1</sup> Infiltration rates must be measured by a field permeability test. The measured field design infiltration rate is equal to one-half the field-measured infiltration rate.

- (d) The location of all areas unsuitable or least suitable for infiltration for the siting of areas of development/building;
- (e) The location of all post-construction stormwater management measures, runoff reduction practices and LID design measures developed pursuant to subsection 5(b)(2)(C)(i) of the general permit;
- (f) Identification of areas inappropriate for the infiltration of stormwater runoff from land uses with a significant potential for groundwater pollution;
- (g) A narrative describing the nature, purpose, implementation and long-term maintenance of post-construction stormwater management measures, runoff reduction practices and LID design measures;
- (h) Calculations, for measures developed pursuant to Section 5(b)(2)(C)(i) of the general permit, illustrating the retention of the water quality volume or half the water quality volume for the site, as applicable, including a discussion of the impact of any runoff reduction and/or LID practices on these calculations;
- (i) A narrative describing any site constraints that prevent retention of the appropriate volume specified in Section 5(b)(2)(C)(i) of the general permit including: an explanation of the site limitations; a description of the runoff reduction practices implemented; an explanation of why the amount retained constitutes the maximum extent achievable; an alternative retention volume; and a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume; and
- (j) Calculations showing the proposed effective impervious cover for the site and, where required or proposed for linear projects pursuant to Section 5(b)(2)(C)(i) of the general permit, each outfall drainage area.

(vi) Inspections

(a) Plan Implementation Inspections

The Plan shall include a Plan Implementation inspection checklist, a schedule for conducting inspections, and identification of the designing qualified professional (and District personnel, as appropriate) conducting such inspections and their responsibilities and procedures pursuant to subsection 5(b)(4)(A) of the general permit. The Plan shall also include documentation of the qualifications of the inspector and the findings, actions and results of all inspections conducted at the site. For inspection requirements for solar arrays (as defined in Section 2), see Appendix I.

(b) Routine Inspections

The Plan shall include a routine inspection checklist, schedule for conducting inspections, and identification of the qualified inspector(s) conducting the routine inspections and their responsibilities and procedures pursuant to subsection 5(b)(4)(B) of the general permit. The Plan shall also include documentation of the qualifications of the inspector(s) and the findings, actions and results of all inspections conducted at the site.

(c) For additional Plan Implementation and Routine Inspection requirements for solar arrays, see Appendix I.

(d) Inspection Checklists

The checklists required by (vi)(a) and (vi)(b) of this subparagraph shall include the information described in the checklist forms found at: [www.ct.gov/deep/stormwater](http://www.ct.gov/deep/stormwater). Such inspection checklists shall comply with the requirements and conditions of Section 5(b)(4) of the general permit, and include a space for the qualified professional's signature and professional stamp.

(vii) Contractors

(a) The Plan shall clearly identify each contractor and subcontractor that will perform construction activities on the site that have the potential to cause pollution of the waters of the State. The Plan shall also include a copy of the certification statement pursuant to "Other Requirements for Authorization" in Section 3(b)(16) of the general permit, signed by each such contractor and subcontractor.

(b) Subdivisions

Where individual lots in a subdivision or other common plan of development are conveyed or otherwise the responsibility of another person or municipality, those individual lot contractors shall be required to comply with the provisions of this general permit and the Stormwater Pollution Control Plan, regardless of lot size or disturbed area. In such cases, the permittee shall provide a copy of the Plan to each individual lot contractor, obtain signed certifications pursuant to Section 3(b)(16)(B) of the general permit from such contractors and retain all signed certifications in the Plan.

(viii) Impaired Waters

For construction activities that discharge to impaired waters, as specified in "New Discharges to Impaired Waters" (Section 3(b)(13)), the Plan shall include a description of the provisions for controlling the construction and post-construction stormwater discharges to these waters pursuant to subsection 5(b)(3) below.

(2) Stormwater Control Measures

Control Measures are required Best Management Practices (BMPs) that the permittee must implement to minimize the discharge of pollutants from the permitted activity. The term "minimize" is defined in Section 2 of this general permit. The Permittee shall comply with the following requirements.

Control Measures shall be designed in accordance with the Guidelines, the Stormwater Quality Manual or the DOT Qualified Products List (<https://portal.ct.gov/-/media/DOT/documents/dresearch/ConnDOT-Qualified-Product-List.pdf?la=en>). Use of control measures to comply with the "Erosion and Sediment Controls" section (subsection (A) below) of this general permit that are not included in such references must be approved by the commissioner. The narrative and drawings of controls shall address the following minimum components:

(A) Erosion and Sediment Controls

(i) Soil Stabilization and Protection

The Plan shall include a narrative and drawings of interim and permanent soil stabilization practices for managing disturbed areas and soil stockpiles, including a schedule for implementing the practices. The Permittee shall ensure that existing vegetation is preserved to the maximum extent practicable and that disturbed portions of the site are minimized and stabilized throughout the duration of the construction activity at the site.

Regardless of any provisions for erosion control barriers prescribed in the Guidelines, the Permittee shall ensure that two rows of erosion control barriers are installed and maintained on sites with slopes equal to or greater than eight percent (8%) within the contributing drainage area to such barrier. Notwithstanding the foregoing, use of two rows of erosion control barriers shall not be required on the sites specified in this paragraph when: (i) the Commissioner determines, for a limited section or portion of such erosion control barriers, that it is necessary to accommodate animal crossing or animal movement; (ii) the Commissioner approves a Plan that includes an erosion control system whose performance is equivalent to, or exceeds, two rows of erosion control barriers; or (iii) for *linear projects*, the Commissioner has determined that two rows of erosion control barriers, when compared to one row, will cause greater adverse impact to wetlands, waters, or other sensitive resources. In such situation the Commissioner may approve a Plan with one row of erosion control barriers or an alternative erosion control system. When implementing this paragraph the Commissioner may consider the contributing disturbed area, drainage area, length of the slope, flow conditions to maintain sheet flow, the efficacy of the proposed barrier, any adverse impacts from the use of one or two rows of erosion control barriers, and any other factor the Commissioner deems necessary.

Where construction activities have permanently ceased or when final grades are reached in any portion of the site, stabilization and protection practices as specified in Chapter 5 of the Guidelines or as approved by the commissioner shall be implemented within seven days. Notwithstanding any provisions of the Guidelines, areas that will remain disturbed but inactive for at least fourteen calendar days shall receive temporary seeding or soil protection within seven days in accordance with the Guidelines unless site conditions warrant shorter time periods for these provisions.

Areas that will remain disturbed beyond the seeding season as identified in the Guidelines, shall receive long-term, non-vegetative stabilization and protection sufficient to protect the site through the winter. In all cases, stabilization and protection measures shall be implemented as soon as possible in accordance with the Guidelines or as approved by the commissioner.

Temporary or permanent vegetation or other ground cover shall be maintained at all times in all areas of the site, except those undergoing active disturbance, in order to prevent erosion and soil compaction during construction activities. All new temporary and permanent vegetation shall consist of native plant species. With respect to such vegetation, the Permittee shall not use chemical fertilization, herbicides, or pesticides except as necessary to establish such vegetation.

A reverse slope bench is required for any slope steeper than 3:1 (horizontal: vertical) that exceeds 15 feet vertically, except when engineered slope stabilization structures or measures are included or a detailed soil mechanics analysis has been conducted to

verify stability. Engineered analyses and measures must be designed by a CT licensed Professional Engineer with experience in geotechnical engineering or soil mechanics.

(ii) Wetland Protection

Where site disturbance occurs within fifty (50) feet upgradient of a wetland, wetlands, or waters as defined in Section 2 of the general permit, a double row of sediment barrier (e.g. hay bales, silt fence, wattles, etc.) shall be installed in accordance with the Guidelines between the disturbed area and any such downgradient wetland, wetlands or waters.

(iii) Structural Measures

The Plan shall include a narrative and drawings of structural measures to divert flows away from exposed soils, store flows or otherwise limit runoff and minimize the discharge of pollutants from the site. Unless otherwise specifically approved in writing by the commissioner, or if otherwise authorized by another state or federal permit, structural measures shall be installed on upland soils.

For points of discharge from disturbed sites with a total contributing drainage area of between two to five acres, a temporary sediment trap or temporary sediment basin shall be designed and installed in accordance with the Guidelines. For points of discharge from disturbed sites with a total contributing drainage area greater than five acres, a temporary sediment basin shall be designed and installed in accordance with the Guidelines. Such trap(s) or basin(s) must be maintained until final stabilization of the contributing area as defined in "Notice of Termination" (Section 6(a)).

The requirement for sediment traps or basins shall not apply to flows from off-site areas and flows from areas of the site that are either undisturbed or have undergone final stabilization, provided such flows are diverted around the temporary sediment trap or basin and are approved in writing by the commissioner.

(iv) Maintenance

The Plan shall include a narrative of the procedures to maintain, in good and effective operating condition, all erosion and sediment control measures, including vegetation, and all other protective measures identified in the Plan. Maintenance of all erosion and sediment controls shall be performed in accordance with the Guidelines, or more frequently as necessary.

(B) Dewatering Wastewaters

Dewatering wastewaters shall be managed in accordance with the Guidelines. Dewatering wastewaters discharged to surface waters shall be discharged in a manner that minimizes the discoloration of the receiving waters. The Plan shall include a narrative and drawings of the operational and structural measures that will be used to ensure that all dewatering wastewaters will not cause scouring or erosion or contain suspended solids in amounts that could reasonably be expected to cause pollution of surface waters of the State. Unless otherwise specifically approved in writing by the commissioner, or if otherwise authorized by another state or federal permit, dewatering measures shall be installed on upland soils.

No discharge of dewatering wastewater(s) shall contain or cause a visible oil sheen, floating solids, or foaming in the receiving water.

(C) Post-Construction Stormwater Management

The Plan shall include a narrative and drawings of measures that will be installed during the construction process to minimize the discharge of pollutants in stormwater discharges that will occur after construction operations have been completed. Post-construction stormwater management measures shall be designed and implemented in accordance with the Stormwater Quality Manual, the DOT Qualified Products List or as approved by the commissioner. Unless otherwise specifically provided by the commissioner in writing, or authorized by another state or federal permit, structural measures shall be placed on upland soils. The Plan shall include provisions to address the long-term maintenance of any post-construction stormwater management measure installed.

(i) Post-Construction Performance Standards

The permittee shall utilize runoff reduction practices (as defined in Section 2 of the general permit) to meet runoff volume requirements based on the conditions below.

(a) Redevelopment

For sites that are currently developed with an effective impervious cover of forty percent or more and for which the permittee is proposing redevelopment, the permittee shall design the site in such a manner as to retain on-site half the water quality volume (as defined in Section 2 of the general permit) for the site and provide additional stormwater treatment without retention for discharges up to the full water quality volume for sediment, floatables and nutrients to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In cases where the permittee is not able to retain half the water quality volume (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), the permittee shall design the redevelopment to retain runoff volume to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In such cases, additional stormwater treatment up to the full water quality volume is still required. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual. If retention of half the water quality volume is not achieved, the permittee shall submit a report for the commissioner's review and written approval describing: the measures taken to maximize runoff reduction practices on the site; the reasons why those practices constitute the maximum extent achievable; the alternate retention volume; and a description of the measures used to provide additional stormwater treatment above the alternate volume up to the water quality volume.

(b) Linear Redevelopment

In the case of linear redevelopment projects (e.g. roadway reconstruction or widening or public utility rights of way) for the developed portion of the right of way: (1) for projects that may be unable to comply with the retention of the appropriate portion of the water quality volume specified in subparagraphs (a) and (c) of this subsection, the alternate retention and treatment provisions may also be applied as specified in such subparagraphs, or (2) for projects that will not increase the effective impervious cover within a given watershed, the permittee shall implement the additional stormwater treatment measures referenced in subsections (a) and (c) of this subsection, but will not be required to retain the appropriate portion of the water quality volume specified in such paragraphs.

(c) Other Development

The following performance standard applies to all sites that are currently undeveloped or are currently developed with less than forty percent effective impervious cover. For these sites, the permittee shall design the site to retain the water quality volume for the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the commissioner's review and written approval, which: explains the site limitations; provides a description of the runoff reduction practices implemented; provides an explanation of why this constitutes the maximum extent achievable; offers an alternative retention volume; and provides a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume. In the case of linear projects that do not involve impervious surfaces (e.g. electrical transmission rights-of-way or natural gas pipelines), retention of the water quality volume is not required as long as the post-development runoff characteristics do not differ significantly from pre-development conditions.

(ii) Post-Construction Control Measures

(a) Runoff Reduction and Low Impact Development ("LID") Practices

The site design shall incorporate runoff reduction practices, low impact development ("LID") practices or other post-construction control measures to meet the performance standards in subsection (i) above, promote groundwater recharge and minimize post-construction impacts to water quality. Please refer to Appendix B for additional guidance information.

(b) Suspended Solids and Floatables Removal

The permittee shall install post-construction stormwater control measures designed to minimize the discharge of suspended solids and floatables (e.g. oil and grease, other floatable liquids, floatable solids, trash, etc.) from stormwater. A goal of 80 percent removal of the annual sediment load from the stormwater discharge shall be used in designing and installing such stormwater control measures. The Plan shall provide calculations supporting the capability of such measures in achieving this goal and any third-party verification, as applicable, of the sediment removal efficiencies of such measures. This goal is not intended to limit local approval authorities from requiring a higher standard pursuant to local requirements.

(c) Velocity Dissipation

Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow to receiving waters so that the natural physical and biological characteristics and functions of such waters are maintained and protected.

(D) Other Controls

The following additional controls shall be implemented:

(i) Waste Disposal

Best management practices shall be implemented to minimize the discharge of litter, debris, building materials, hardened concrete waste, or similar materials to waters of the State. A narrative of these practices shall be provided in the Plan. In addition, the dumping of liquid wastes in storm sewers is prohibited.

(ii) Washout Areas

Washout of applicators, containers, vehicles and equipment for concrete, paint and other materials shall be conducted in a designated washout area. There shall be no surface discharge of washout wastewaters from this area. Such washout shall be conducted: (1) outside of any buffers and at least 50 feet from any stream, wetland or other sensitive resource; or (2) in an entirely self-contained washout system. The permittee shall clearly flag off and designate areas to be used for washing and conduct such activities only in these areas. The permittee shall direct all washwater into a container or pit designed such that no overflows can occur during rainfall or after snowmelt. At least once per week, the permittee shall inspect all of the containers or pits used for washout to ensure structural integrity, adequate holding capacity, and to check for leaks or overflows. If there are signs of leaks, holes or overflows in the containers or pits that could lead to a discharge, the permittee shall repair them prior to further use.

For concrete washout areas, the permittee shall remove hardened concrete waste whenever the hardened concrete has accumulated to a height of  $\frac{1}{2}$  of the container or pit or as necessary to avoid overflows. The permittee shall remove and dispose of such hardened concrete waste in accordance with the practices developed for "Waste Disposal" (see Section 5(b)(2)(D)(i) of this general permit).

A narrative of maintenance procedures and a record of maintenance and inspections shall be included in the Plan.

(iii) Off-site Vehicle Tracking/Dust Suppression

Off-site vehicle tracking of sediments and the generation of dust shall be minimized. Wet dust suppression shall be used, in accordance with section 22a-174-18(c) of the Regulations of Connecticut State Agencies, for any construction activity that causes airborne particulates. The volume of water sprayed for controlling dust shall be minimized so as to prevent the runoff of water. No discharge of dust control water shall contain a visible oil sheen, floating solids, visible discoloration, or foaming agents or cause a visible sheen, floating solids, visible discoloration, or foaming in any receiving waters.

(iv) Cleaning

All post-construction stormwater structures shall be cleaned of construction sediment and any remaining silt fence shall be removed upon stabilization of the site.

(v) Storage of Chemical and Petroleum Products

All chemical and petroleum product containers stored on the site (excluding those contained within vehicles and equipment) shall be stored within an impermeable containment system that is free of gaps and cracks, can contain any leaks or spills and accumulated precipitation until the collected materials are detected and removed, and



which can hold at least 110% of the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment system. In addition, all chemicals and petroleum products shall be stored under a roofed area except for those chemicals stored in containers of 100 gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy the requirements of this paragraph for containment and roofing.

(vi) Cold Water Stream Habitat

For construction activities within one hundred (100) feet of any stream, river, or tributary that is included within a Cold Water Stream Habitat, as may be authorized by the Commissioner pursuant to Section 3(b)(15) of this general permit, any mitigation strategies authorized by the commissioner must be verified post-construction.

(3) Additional Control Measures for Impaired Waters

Construction activities discharging directly to impaired waters that do not comply with this subsection are not authorized by this general permit. For construction activities that discharge directly to impaired waters, as specified in “New Discharges to Impaired Waters” (Section 3(b)(13) of this general permit), the Plan shall include the following provisions:

- (A) In lieu of the provisions regarding “Construction Sequencing” in Section 5(b)(1)(B)(iii) of this general permit, no more than 3 acres may be disturbed at any one time. For those areas for which construction activity will be temporarily suspended for a period of greater than 14 days, temporary stabilization measures shall be implemented within 3 days of such suspension of activity. For all areas, permanent stabilization shall be implemented within 30 days of disturbance; *or*
- (B) The Plan shall document that measures are in place to ensure that there will be no discharge to the impaired water from rain events up to a 2-year, 24-hour rain event while construction activity is occurring; *or*
- (C) For discharges to impaired waters with an established TMDL, the requirements for stormwater discharges specified in the TMDL shall be met, or:
  - (i) the Plan shall document that there is sufficient remaining Waste Load Allocation (WLA) in the TMDL to allow the discharge;
  - (ii) measures shall be implemented to ensure the WLA will not be exceeded; *and*
  - (iii) stormwater discharges shall be monitored, if applicable, for any indicator pollutant identified in the TMDL for every rain event that produces a discharge to ensure compliance with the WLA.

(4) Inspections

All construction activities authorized by this general permit shall be inspected initially for Plan implementation and then weekly for routine inspections. Upon project completion and prior to submission of a Notice of Termination, post-construction and final stabilization inspections shall also be conducted. For inspections at solar arrays, see additional requirements in Appendix I.

(A) Plan Implementation Inspections

Prior to commencement of each phase of the construction activity on the site, the permittee shall contact the designing qualified professional and, for locally exempt projects including, but not limited to, solar arrays subject to Appendix I, the appropriate District to ensure that all required inspections are conducted. For each phase of construction, the site shall be inspected at least once within the first thirty (30) days of construction activity and at least three times, with seven (7) or more days between inspections, within the first ninety (90) days of construction activity to confirm compliance with the general permit and proper initial implementation of all control measures designated in the Plan for each phase of construction. The following conditions shall apply:

- (i) for all projects not conducted by a state agency and which disturb more than one (1) acre, the inspector shall be someone who:
  - (a) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant, and
  - (b) has no ownership interest of any kind in the project for which the registration is being submitted.
- (ii) for projects conducted by a state agency and which disturb more than one (1) acre, the inspector shall be someone who:
  - (a) meets the requirements in subparagraph (i), above, or
  - (b) is included in the list of qualified professionals specified in Section 3(b)(12)(B) of the general permit.

(B) Routine Inspections

The permittee shall routinely inspect the site for compliance with the general permit, including, but not limited to, compliance with the Plan for the site, until a Notice of Termination under Section 6 of the general permit has been submitted to the Commissioner. Inspection procedures for these routine inspections shall comply with the following:

- (i) The permittee shall maintain a rain gauge on-site to document rainfall amounts. At least once a week and within 24 hours of the end of a storm that generates a discharge, a qualified inspector (provided by the permittee), shall inspect, at a minimum, the following: disturbed areas of the construction activity that have not been finally stabilized; all erosion and sediment control measures; all structural control measures; all soil stockpile areas; all washout areas and locations where vehicles enter or exit the site. For storms that end on a weekend, holiday or other time after which normal working hours will not commence within 24 hours, a routine inspection is required within 24 hours only for storms that equal or exceed 0.5 inches. For storms of less than 0.5 inches, an inspection shall occur immediately upon the start of the subsequent normal working hours.

In areas of the site where temporary stabilization has been implemented, a routine inspection shall be conducted at least weekly until final stabilization has been achieved. Once all post-construction stormwater measures have been installed in accordance with the Post-Construction Stormwater Management section (subsection 5(b)(2)(C) of this general permit) and cleaned of any construction sediment or debris, a post-construction inspection shall be conducted in accordance with subsection (C), below. For sites that

have implemented final stabilization, a routine inspection shall be conducted in accordance with subsection (D), below.

- (ii) During each routine inspection the qualified inspector(s) shall, among other things, evaluate the effectiveness of erosion and sediment controls, structural controls, stabilization practices, and any other controls implemented to prevent pollution and determine if it is necessary to install, maintain, or repair such controls and/or practices to improve the quality of stormwater discharge(s). In addition, during each routine inspections the site including, but not limited to, all of the areas noted in the preceding paragraph, shall be inspected for evidence of, or the potential for, pollutants discharging to waters, or entering the drainage system and impacts to the receiving waters. Locations where vehicles enter or exit the site shall also be inspected for evidence of off-site sediment tracking.
- (iii) The qualified inspector conducting routine inspections shall prepare a report of each inspection. Each such report shall be retained as part of the Plan. A copy of each inspection report shall be submitted electronically in accordance with Section 5(c)(2) of the general permit. This report shall summarize: the scope of the inspection; name(s) and qualifications of personnel conducting the inspection; the date(s) of the inspection; weather conditions including precipitation information; major observations relating to erosion and sediment controls and the implementation of the Plan; a description of the stormwater discharge(s) from the site; and any water quality monitoring performed during the inspection. The report shall be signed by the permittee or his/her authorized representative in accordance with the "Certification of Documents," see Section 5(h) of this general permit.

The report shall include a statement that, in the judgment of the qualified inspector(s) conducting the site inspection, the site is either in compliance or out of compliance with the terms and conditions of the Plan and permit. If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial actions required to bring the site back into compliance. Non-engineered corrective actions (as identified in the Guidelines) shall be implemented on site within 24 hours and incorporated into a revised Plan within three (3) calendar days of the date of inspection unless another schedule is specified in the Guidelines. Engineered corrective actions (as identified in the Guidelines) shall be implemented on site within seven (7) calendar days and incorporated into a revised Plan within ten (10) calendar days of the date of inspection, unless another schedule is specified in the Guidelines or is approved by the commissioner. During the period in which any corrective actions are being developed and have not yet been fully implemented, interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site.

- (iv) Inspectors from the DEEP and the appropriate District, where applicable, may inspect the site to verify compliance with this general permit at any time construction activities are ongoing, and upon completion of construction activities, until a Notice of Termination has been accepted by the Commissioner pursuant to Section 6 of the general permit.

#### (C) Post-Construction Inspection

- (i) For locally approvable projects, once all post-construction stormwater measures have been installed in accordance with Section 5(b)(2)(C) of the general permit, Post-Construction Stormwater Management, and cleaned of any construction sediment or debris, the Permittee shall ensure that the appropriate Conservation District or a qualified soil erosion and sediment control professional or a qualified professional

engineer, as appropriate, inspects the site to confirm compliance with the post-construction stormwater management requirements. The permittee shall ensure that the person inspecting the site pursuant to this paragraph is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the Permittee and that such person has no ownership interest of any kind in the project for which the site's registration was submitted. A report shall be prepared and certified in accordance with Sections 6(a) and (b) of the general permit to indicate compliance with this requirement on the Notice of Termination form.

- (ii) For locally exempt projects except those conducted by state agencies, once all post-construction stormwater measures have been installed in accordance with the Section 5(b)(2)(C) of the general permit, "Post-Construction Stormwater Management", and cleaned of any construction sediment or debris, the permittee shall ensure that a qualified soil erosion and sediment control professional or a qualified professional engineer inspects the site to confirm compliance with the post-construction stormwater management requirements of the general permit. A report shall be prepared and certified in accordance with Sections 6(a) and (b) of the general permit to indicate compliance with this requirement on the Notice of Termination form.
- (iii) For projects conducted by state agencies, once all post-construction stormwater measures have been installed in accordance with the Post-Construction Stormwater Management section (subsection 5(b)(2)(C)) and cleaned of any construction sediment or debris, the DOT District Engineer or his/her designee and/or DOT District Environmental Coordinator, or the designated employee of another state agency, will inspect the site to confirm compliance with the post-construction stormwater management requirements of the general permit.

(D) Final Stabilization Inspection

For all projects, once the site has achieved final stabilization for at least one full growing season (April – October) in the year following the end of construction, the Permittee shall have the site inspected by a qualified inspector to confirm such stabilization is maintained. The Permittee shall indicate compliance with this requirement on the Notice of Termination form.

(5) Keeping Plans Current

The Permittee is responsible for keeping their Plan in compliance with this general permit at all times. This may involve any or all of the following:

- (A) The permittee shall amend the Plan if the actions required by the Plan fail to prevent pollution or unauthorized discharges to the waters of the state, or fail to comply with any other provision of this general permit. The Plan shall also be amended whenever there is an addition of or change in contractors or subcontractors at the site, the designing qualified professional, District personnel, or a change in design, construction, operation, or maintenance at the site which has not otherwise been addressed in the Plan.

The permittee shall submit a new registration to the commissioner in accordance with Section 4 of this general permit if the amount of disturbed area increases from the amount specified in the registration approved by the Commissioner or there are changes to engineered or non-engineered construction or post-construction control measures that have the potential to increase the quantity or quantity of pollution in the site's stormwater discharges. Such new registration shall be submitted before any such increases or changes are implemented.

- (B) The commissioner may notify the permittee at any time that the Plan or the site does not meet one or more requirements of this general permit. Within seven (7) days of such notice, or such other time as the commissioner may allow, the permittee shall make the required changes to the Plan and perform all actions required by such revised Plan. Within 15 days of such notice, or such other time as the commissioner may allow, the permittee shall submit to the commissioner a written certification that the requested changes have been made and implemented and such other information as the commissioner requires. Any such certification or information shall be submitted in accordance with the ‘Duty to Provide Information’ and ‘Certification of Documents,’ Sections 5(g) and 5(h) of this general permit.
- (C) For any stormwater discharges authorized under any previous version of this general permit, the Permittee shall, excluding any provisions for which an exemption is provided for in Section 4(c)(3)(C) of the general permit, update their Plan prior to their re-registration pursuant to Section 4(c)(3) of the general permit, and in no case later than one hundred twenty (120) days after the effective date of this general permit to ensure and maintain compliance with any applicable term and condition of this general permit. For previously authorized sites discharging to impaired waters or other sensitive areas, the commissioner may require additional control measures or provide authorization under an individual permit pursuant to Sections 4(i) and 3(i).
- (D) The Permittee shall ensure that any person keeping this Plan or part thereof current, under the Keeping Plans Current section of this permit, has qualifications that would be required under this general permit to initially prepare the Plan or part thereof.
- (E) The permittee shall retain as part of the Plan all modifications, and any documentation associated with each modification, made under this section.

(6) Failure to Prepare, Maintain or Update Plan

In no event shall failure to complete, maintain or update a Plan, in accordance with the ‘Development of Contents of the Plan’ and ‘Keeping Plans Current’ sections (subsections 5(b)(1) and 5(b)(5)) of this general permit, excuse non-compliance or relieve a permittee of responsibility to implement any actions required to protect the waters of the state or comply with the requirements of this permit.

(7) Plan Signature

The Plan shall be signed and certified as follows:

- (A) The Plan shall be signed by the permittee in accordance with the Section 5(h) of this general permit, ‘Certification of Documents’.
- (B) The Plan shall include certification by all contractors and subcontractors in accordance with Section 5(b)(1)(B)(vii) of this general permit, ‘Contractors’.
- (C) The Plan shall include a copy of the certification by a professional engineer or landscape architect made in accordance with Section 3(b)(9) of this general permit.

(8) Plan Review Certification

For a locally approvable project pursuant to Section 4(c) of this general permit, a copy of the Plan review certification made in accordance with Section 3(b)(10) or (11) of this general permit, as

applicable, shall be maintained with the Plan. (Note: Construction activities reviewed and certified pursuant to those sections are still subject to the local erosion and sediment control and stormwater management regulations of the municipality in which the activity is conducted.)

(9) Plan Submittal

The Permittee shall ensure that the Plan is submitted to the commissioner and other parties as follows:

- (A) For all Locally Exempt Projects with greater than one acre of soil disturbance, the Permittee shall submit an electronic copy of the Plan and a completed Registration Form to the commissioner.
- (B) For Locally Approvable projects, the permittee shall provide an electronic copy of the Plan and a completed Registration Form to the commissioner. In addition, a completed Registration Form for this general permit shall be submitted to the following persons immediately upon request:
  - (i) The municipal planning commission, zoning commission and/or inland wetlands agency, or its respective enforcement officer or designated agent; and
  - (ii) In the case of a stormwater discharge through a municipal separate storm sewer system, the municipal operator of the system; and
  - (iii) In the case of a stormwater discharge located within a public drinking water supply watershed or aquifer area, the water company responsible for that water supply.

**DO NOT SUBMIT** any information that does not pertain to stormwater management or erosion and sediment control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.). Any plans stamped “not for construction” will not be accepted.

**(c) Reporting and Record Keeping Requirements**

(1) Record Keeping

- (A) For a period of at least five years from the date the Notice of Termination is accepted by the Commissioner, the permittee shall retain copies of the Plan and all reports required by this general permit, and records of all data used to complete the registration for this general permit, unless the commissioner specifies another time period in writing.
- (B) The permittee shall retain an updated copy of the Plan required by this general permit at the construction site from the date construction is initiated at the site until the date construction at the site is completed.
- (C) Inspection records must be retained as part of the Plan for a period of five (5) years after the date of inspection. In addition, the following inspection reports shall be kept on-site with the Plan and shall be submitted to the Commissioner upon request:
  - (i) Plan Implementation Inspections conducted in accordance with Section 5(b)(4)(A) and recorded on checklist forms prepared pursuant to Section 5(b)(1)(B)(vi)(a).
  - (ii) Routine Inspections conducted in accordance with Section 5(b)(4)(B) and recorded on checklist forms prepared pursuant to Section 5(b)(1)(B)(vi)(b).

(D) Plan Modification

Plan modifications made pursuant to Section 5(b)(5) of this general permit and any documentation associated with such modification shall be kept on-site with the Plan.

(2) Reporting

(A) The reports specified in this section shall be provided to the Commissioner within the timeframe specified in any request by the Commissioner, and if no timeframe is specified, no later than thirty (30) days after the date of any such request. If requested by the Commissioner, the reports shall be submitted to the Commissioner using NetDMR in the manner specified in subsection (B), below.

(B) NetDMR Reporting

The permittee shall submit all reporting of inspections, Plan updates or other reporting electronically using NetDMR, a web-based tool that allows Permittees to electronically submit stormwater reports through a secure internet connection. Unless otherwise approved in writing by the commissioner, no later than thirty (30) days after authorization under this permit the Permittee shall begin reporting electronically using NetDMR. Specific requirements regarding subscription to NetDMR and submittal of data and reports in hard copy form and for submittal using NetDMR are described below:

(i) Submittal of NetDMR Subscriber Agreement

At or before the time the Permittee submits a registration for this permit, the Permittee and/or the person authorized to sign the Permittee's reports ("Signatory Authority") as described in RCSA Section 22a-430-3(b)(2) shall contact the Department at [deep\\_netdmr@ct.gov](mailto:deep_netdmr@ct.gov) and initiate the NetDMR subscription process for electronic submission of Stormwater Report information. Information on NetDMR is available on the Department's website at [www.ct.gov/deep/netdmr](http://www.ct.gov/deep/netdmr). On or before the date of authorization under this permit the Permittee shall submit a signed and notarized copy of the *Connecticut DEEP NetDMR Subscriber Agreement* to the Department.

(ii) Submittal of Reports and other documents Using NetDMR

Unless otherwise approved by the commissioner, on or before thirty (30) days following authorization under this permit, the Permittee and/or the Signatory Authority shall electronically submit reports and any other documents required under this permit or by request of the Commissioner to the Department using NetDMR in satisfaction of the requirements of Section 5(c)(2)(A) of this permit.

Reports shall be submitted electronically to the Department no later than fifteen (15) days following the completed reporting period. NetDMR is accessed from: <http://www.epa.gov/netdmr>.

(iii) Submittal of NetDMR Opt-Out Requests

If the Permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting reports, the commissioner may approve an alternative for the submission of reports. Any such request shall be submitted in writing to the Department for written approval on or before the Permittee's date of permit authorization. This demonstration shall be valid for twelve (12) months from the date of the Department's approval and

shall thereupon expire. At such time, reports shall be submitted electronically to the Department using NetDMR unless the Permittee submits a renewed request for an alternative and such request is approved by the Department.

All requests under this provision and requests for the NetDMR subscriber form should be sent to the following address or by email at [deep.netdmr@ct.gov](mailto:deep.netdmr@ct.gov):

**Attn: NetDMR Coordinator**  
**Connecticut Department of Energy and Environmental Protection**  
**79 Elm Street**  
**Hartford, CT 06106-5127**

***(d) Regulations of Connecticut State Agencies Incorporated into this General Permit***

The permittee shall comply with sections 22a-430-3 and 22a-430-4 of the Regulations of Connecticut State Agencies which are hereby incorporated into this general permit, as if fully set forth herein.

***(e) Reliance on Registration***

In evaluating a registration submitted under this general permit, the commissioner has relied on information provided by the registrant. If such information proves to be false or incomplete, any authorization reliant on such information may be suspended or revoked in accordance with law, and the commissioner may take any other action authorized by law.

***(f) Duty to Correct and Report Violations***

Upon learning of any violation of this general permit, including, but not limited to, any failure to follow the Plan or any adverse impacts on wetlands or waters a permittee shall immediately cease all construction activities and take all reasonable action to determine the cause of such violation, return to compliance, correct and mitigate the results of such violation, and prevent such violation from recurring. Construction activities shall not recommence until such reasonable action(s) have been taken and such violation and/or adverse impacts have been corrected and compliance has been restored. The permittee shall ensure that any violations of the terms and conditions of the general permit, including but not limited to, the Plan, identified during an inspection or at any other time, that result in the potential to discharge pollutants to waters of the state are reported to the commissioner within two (2) hours of discovery, or, for those violations discovered outside normal business hours, at the start of the next business day. Violations shall be reported to the DEEP stormwater staff at [deep.stormwaterstaff@ct.gov](mailto:deep.stormwaterstaff@ct.gov) and by calling (860) 424-3025. Furthermore, within five (5) days of discovery of a violation, the Permittee shall prepare and submit to the commissioner a written report signed by the Permittee, which documents the cause of the violation, duration including dates and times, and corrective action taken to address the violation and any action taken or planned to prevent future occurrences. Such information shall be filed in accordance with Section 5(h) of this general permit, "Certification of Documents".

In addition, nothing in this section shall affect any other action the commissioner is authorized to take regarding a violation of this general permit.

***(g) Duty to Provide Information***

The commissioner may request any information pertinent to the construction activity or concerning the Permittee's compliance with this general permit. If requested, the permittee shall provide any such information within fifteen (15) days of such request or other time period as may be specified in writing by the commissioner.



**(h) *Certification of Documents***

Unless otherwise specified in this general permit, any document, including but not limited to any notice, information or report, which is submitted to the commissioner under this general permit shall be signed by the permittee, or a duly authorized representative of the permittee, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.”

**(i) *Date of Filing***

For purposes of this general permit, the date of filing with the commissioner of any document is the date such document is received by the commissioner. The word "day" as used in this general permit means the calendar day; if any date specified in the general permit falls on a Saturday, Sunday, or legal holiday, such deadline shall be the next business day thereafter.

**(j) *False Statements***

Any false statement in any information submitted pursuant to this general permit may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes.

**(k) *Correction of Inaccuracies***

Within fifteen (15) days after the date a permittee becomes aware of a change in any information submitted pursuant to this general permit, or becomes aware that any such information is inaccurate or misleading or that any relevant information has been omitted, such permittee shall correct the inaccurate or misleading information or supply the omitted information in writing to the commissioner. Such information shall be filed in accordance with the certification requirements prescribed in Section 5(h) of this general permit.

**(l) *Transfer of Authorization***

Any authorization issued by the commissioner under this general permit is transferable only in accordance with the provisions of section 22a-6o of the General Statutes. Any person or municipality proposing to transfer any such authorization shall submit a license transfer form to the commissioner. For state projects, the Permittee must be contractually authorized to conduct the transfer. The transferee is not authorized to conduct any activities under this general permit until the transfer is approved by the commissioner. The transferee may adopt by reference the Plan developed by the transferor. The transferee shall update the Plan as required by Section 5(b)(5) of this general permit, “Keeping Plans Current”.

**(m) *Other Applicable Requirements***

Nothing in this general permit shall relieve the permittee of the obligation to comply with any other applicable federal, state and local requirements, including but not limited to the obligation to obtain any other required authorizations or licenses.

**(n) *Other Rights***

This general permit is subject to and does not derogate any present or future rights or powers of the State of Connecticut and conveys no rights in real or personal property nor any exclusive privileges, and is subject to all public and private rights and to any federal, state, and local laws pertinent to the property or construction activity affected by such general permit. In conducting any construction activity authorized hereunder, the permittee shall not cause pollution, impairment, or destruction of the air, water, or other natural resources of this state. The issuance of this general permit shall not create any presumption that this general permit should or will be renewed.

**Section 6. Termination Requirements**

**(a) *Notice of Termination***

At the completion of a construction project the Permittee shall submit a Notice of Termination in accordance with the requirements of this section. A project shall be considered complete after all post-construction measures are installed, cleaned, functioning, and inspected and the site has achieved final stabilization and inspection (see Sections 5(b)(4)(C) & (D) of the general permit, respectively) for at least one full growing season (i.e. April through October) in the year following the cessation of construction activities. Final stabilization must be achieved for all phases of construction, and for solar projects, any additional requirements in Appendix I complied with, before a Notice of Termination may be submitted.

**(b) *Termination Form***

A Notice of Termination shall be filed on forms prescribed and provided by the commissioner and shall include the following:

- (1) The permit number as provided to the permittee on the permit certificate;
- (2) The name of the registrant as reported on the general permit registration form (DEEP-PED-REG-015), or if a license transfer has been approved by the commissioner, the name of the permittee on a license transfer form;
- (3) The address of the completed construction site;
- (4) The dates when:
  - (A) Construction was completed;
  - (B) All storm drainage structures were cleaned of construction debris pursuant to the “Other Controls” section (subsection 5(b)(2)(D)) of this general permit;
  - (C) The post-construction inspection was conducted pursuant to Section 5(b)(4)(C);
  - (D) The final stabilization inspection was conducted pursuant to Section 5(b)(4)(D).
- (5) A description of the post-construction activities at the site; and

- (6) Signatures of:
- (A) The permittee; and
  - (B) The person who conducted the post-construction inspection pursuant to Section 5(b)(4)(C) of the general permit.
  - (C) The person who conducted the final stabilization inspection pursuant to Section 5(b)(4)(D) of the general permit.

(c) ***Where to File a Termination Form***

A termination form shall be filed with the commissioner at the following address:

WATER PERMITTING AND ENFORCEMENT DIVISION/STORMWATER GROUP  
BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE  
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127

**Section 7. Commissioner's Powers**

(a) ***Abatement of Violations***

The commissioner may take any action provided by law to abate a violation of this general permit, including but not limited to penalties of up to \$25,000 per violation per day under Chapter 446k of the Connecticut General Statutes, for such violation. The commissioner may, by summary proceedings or otherwise and for any reason provided by law, including violation of this general permit, revoke a permittee's authorization hereunder in accordance with sections 22a-3a-2 through 22a-3a-6, inclusive, of the Regulations of Connecticut State Agencies. Nothing herein shall be construed to affect any remedy available to the commissioner by law.

(b) ***General Permit Revocation, Suspension, or Modification***

The commissioner may, for any reason provided by law, by summary proceedings or otherwise, revoke or suspend this general permit or modify to establish any appropriate conditions, schedules of compliance, or other provisions which may be necessary to protect human health or the environment.

(c) ***Filing of an Individual Permit Application***

If the commissioner notifies a permittee in writing that such permittee must obtain an individual permit, the permittee shall file an application for an individual permit within thirty (30) days of receiving the commissioner's notice or such other time that the commissioner specified in the notice to the permittee. While such application is pending before the commissioner, the permittee shall continue to comply with the terms and conditions of this general permit. Nothing herein shall affect the commissioner's power to revoke a permittee's authorization under this general permit at any time.

Issued: November 25, 2022

  
\_\_\_\_\_  
for Katherine S. Dyke  
Commissioner

# General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

## APPENDIX A

### Endangered and Threatened Species

In order to be eligible for coverage under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (“GP” or “the GP”), under section 3(b)(2) of the GP, a registrant must ensure that the construction activity, as defined in Section 2 of the GP, does not threaten the continued existence of any state or federal species listed as endangered or threatened (“listed species”) or result in the destruction or adverse modification of any habitat associated with such species.

In order to prevent significant, unforeseen delays in the processing of a registration under the GP, registrants should assess compliance with section 3(b)(2) early in the planning stages of a project. The Department of Energy and Environmental Protection (“the Department”) strongly recommends that this assessment *be initiated up to one year, or more*, prior to the projected construction initiation date, and even before the purchase of the site of the construction activity. At a minimum, registrants must assess compliance with section 3(b)(2) prior to submission of the Registration Form for the GP.

This Appendix describes the ways that a registrant can comply with section 3(b)(2) of the GP. In connection with the filing of a registration a registrant can perform a self-assessment described in Section 1, seek a limited two-year determination or a safe harbor determination from the Department’s Wildlife Division under Sections 2 or 3, respectively, or stipulate in writing to the presence of listed species or any habitat associated with such species and develop a mitigation plan pursuant to Section 5 of this Appendix. While some means of compliance are more limited than others, the options set out in this Appendix are not mutually exclusive and all options remain available to a registrant. For example, a registrant may perform a self-assessment under Section 1 and seek a safe harbor determination under Section 3 of this Appendix. Provided the requirements of this Appendix are met, the choice of how to proceed is the registrant’s.

### **Section 1. Self Assessment through Natural Diversity Database Map Review and Screening**

Before submission of a registration for coverage under this GP, a registrant must review the current versions of the Department’s Natural Diversity Data Base (“NDDB”) maps. Except as provided for in Sections 2, 3 or 5 of this Appendix, such review must occur no more than six months before such submission. Such review provides a method for screening whether the Department is already aware of listed species that may be present on the site of the construction activity. These maps can be viewed online at:

[CT DEEP Natural Diversity Data Base Maps](#)  
[CTECO Webpage](#) (in the interactive Map Viewer)

### **Screening**

The site of the construction activity must be compared to the shaded areas depicted on the NDDB map to determine if the site is entirely or partially within a shaded area. If the site is entirely or partially within a shaded area for a listed species a registrant can only achieve compliance with section 3(b)(2) of the GP by obtaining a limited two-year determination under Section 2, a safe harbor determination under Section 3, or an approved mitigation plan under Section 5 of this Appendix from the Department’s Wildlife Division.

If the site of the construction activity is not entirely or partially within a shaded area, then the Department is not aware of any listed species at the site of the construction activity. Based upon this screening, and provided the registrant has no reasonably available verifiable, scientific or other credible information that the construction activity could reasonably be expected to violate section 3(b)(2) of the GP, **when completing the Registration Form for this GP a registrant may check the box that indicates that the construction activity will not impact federal or state listed species.**

A registrant using only self-assessment under this section may utilize the results of any such self-assessment for up to, but no more than, six months from the date of such assessment. Note, however, that the NDDDB maps are not the result of comprehensive state-wide field investigations, but rather serve as a screening tool. Using such maps as a screening tool does not provide a registrant with an assurance that listed species or their associated habitat may not be encountered at the site of the construction activity. Notwithstanding the NDDDB screening results, if a listed species is encountered at the site of the construction activity, the registrant shall promptly contact the Department and may need to take additional action to ensure that the registrant does not violate section 3(b)(2) of the GP.

## **Section 2. Obtaining a Limited Two-Year Determination**

A registrant may seek a written determination from the Department's Wildlife Division, good for two years, that the proposed construction activity complies with section 3(b)(2) of the GP. To obtain this limited two-year determination, a registrant must, in addition to conducting the NDDDB map review in Section 1 of this Appendix, provide the Department's Wildlife Division with (1) any reasonably available verifiable, scientific or other credible information about whether the construction activity could reasonably be expected to result in a violation of section 3(b)(2) of the GP, and (2) limited information about the site of the proposed construction activity, but less information than would be necessary for a safe harbor determination under Section 3 of this Appendix. The limited information necessary for a two-year determination is on the current "Request for Natural Diversity Database (NDDDB) State Listed Species Review" form on the Department's website. The form and instructions for seeking such a limited two-year determination are available at [www.ct.gov/DEEP/nddbrequest](http://www.ct.gov/DEEP/nddbrequest).

Provided the registrant's information is accurate and the Department's Wildlife Division determines that the construction activity will not violate section 3(b)(2) of the GP, the registrant shall receive a limited two-year determination from the Department. Any such determination may indicate that the construction activity will not impact listed species or their associated habitat, or it may include specific conditions to be implemented to avoid or significantly minimize any impacts that may be encountered at the site of the construction activity. For purposes of submitting a registration for the GP, any such limited two-year determination can be relied upon by the person receiving such determination for two years from the date of such determination. Like, however, the NDDDB screening procedure in Section 1 of this Appendix, a limited two-year determination does not provide a registrant with an assurance that listed species or their associated habitat may not be encountered at the site of the construction activity. If a listed species is encountered, the registrant shall promptly contact the Department and may need to take additional action to ensure that the construction activity does not violate section 3(b)(2) of the GP.

If a registrant receives a limited two-year determination from the Department, the registrant should check the limited two-year determination box on the GP registration form and include the Department's two-year limited determination letter with the GP Registration form. Checking the limited two-year determination box on the registration form and failing to provide the determination letter from the Department's Wildlife Division with the GP Registration form will delay and may prevent processing of a registration.

If based upon the information provided by a registrant seeking a limited two-year determination the Department's Wildlife Division determines that the construction activity could impact listed species or their associated habitat, or that the Department needs additional information to make a limited two-year determination, the registrant may still achieve compliance with section 3(b)(2) of the GP through providing additional information pursuant to Section 4 or developing a mitigation plan pursuant to Section 5 of this Appendix.

A registrant may request one or more one-year extensions to a limited two-year determination under this section. If the Department's Wildlife Division has prescribed a form for requesting an extension, any such request shall be made using the prescribed form. There is a presumption that requests for a one-year extension of a limited two-year determination shall be granted. However, this presumption can be rebutted if the Department determines that a change in any of the following has occurred since an initial limited two-year determination or any extension was granted: the construction activity affecting or potentially affecting listed species or their associated habitat; the NDDDB maps for the site of the construction activity; the limited information upon which a limited two-year determination or any extension was granted; or other information indicative of a change in circumstance affecting listed species or their associated habitat. Any one-year extension granted under this paragraph shall run from the date the Department's Wildlife Division issues its determination to grant an extension and shall be treated under the same conditions as a limited two-year determination as provided for in this section. Any letter granting a one-year extension shall be included with a registration along with the original limited two-year determination as provided for in this section.

### **Section 3. Obtaining a Safe Harbor Determination**

A registrant may seek a written determination from the Department's Wildlife Division, good for three years, with the potential to be extended for an additional year, that proposed construction activity complies with section 3(b)(2) of the GP. Any such determination shall constitute a "safe harbor" for purposes of section 3(b)(2) of the GP.

To obtain a safe harbor determination, a registrant must, in addition to conducting the NDDDB review in section 1 of this Appendix, provide the Department's Wildlife Division with any reasonably available verifiable, scientific or other credible information about whether the construction activity could reasonably be expected to result in a violation of section 3(b)(2) of the GP and specific information about the site of the construction activity. The specific information necessary for a safe harbor determination is listed in Attachment A to this Appendix. This information must be sufficient to allow the Wildlife Division to adequately assess the site for potential risks to listed species and their associated habitat. While the Department recognizes certain information is necessary to make a safe harbor determination, it also recognizes that a registrant may need to obtain a safe harbor determination early in its project's approval process in order to make prudent business decisions about purchasing a site or proceeding to final project designs. The form and instructions for seeking a safe harbor determination are available at [www.ct.gov/DEEP/nddbrequest](http://www.ct.gov/DEEP/nddbrequest).

Provided the registrant's information is accurate and the Department's Wildlife Division determines that the construction activity will not violate section 3(b)(2) of the GP, the registrant shall receive a safe harbor determination from the Department. A safe harbor determination may indicate that the construction activity will not impact listed species or their associated habitat, or it may include specific conditions to be implemented to avoid or significantly minimize any impacts that may be encountered at the site of the construction activity. The Department shall honor the safe harbor determination for three years from the date it is issued, meaning that unlike the NDDDB review in Section 1 or the limited two-year determination in Section 2 of this Appendix, if the Department makes a safe harbor determination and a registrant remains in compliance with any conditions in any such determination, irrespective of what may be found at the site of the construction activity, a registrant shall be considered in compliance with section 3(b)(2) of the GP. However, a safe harbor determination shall

not be effective if a construction activity may threaten the continued existence of any federally listed species or its critical habitat under federal law. If a federally listed species or its critical habitat is encountered on the site of the construction activity, the registrant shall promptly contact the Department and may need to take additional action to ensure that the construction activity does not violate federal law or section 3(b)(2) of the GP.

If a registrant receives a safe harbor determination from the Department, the registrant should check the safe harbor determination box on the GP registration form and include the Department's safe harbor determination with the GP Registration form. Checking the safe harbor box on the registration form and failing to provide the safe harbor determination letter from the Department's Wildlife Division with the GP Registration form will delay and may prevent processing of a registration.

If based upon the information provided by a registrant seeking a safe harbor determination the Department's Wildlife Division determines that the construction activity could impact listed species or their associated habitat, or that the Department needs additional information to make a safe harbor determination, the registrant may still achieve compliance with section 3(b)(2) of the GP through providing additional information pursuant to Section 4 or developing a mitigation plan pursuant to Section 5 of this Appendix.

If a registrant receives a safe harbor determination from the Department's Wildlife Division, anytime during the third year of such safe harbor, a registrant may request a one-year extension of that safe harbor. If the Department's Wildlife Division has prescribed a form for requesting an extension, any such request shall be made using the prescribed form. There is a presumption that a request for a one-year extension of a safe harbor shall be granted. However, this presumption can be rebutted if the Department determines that a change in any of the following has occurred since the safe harbor was granted: the construction activity affecting or potentially affecting listed species or their associated habitat; the NDDDB maps for the site of the construction activity; the information upon which the safe harbor was granted; or other information indicative of a change in circumstance affecting listed species or their associated habitat. A registrant may seek only one extension, for one year, to a safe harbor determination. Any one-year extension granted under this paragraph shall run from the date of the Department's Wildlife Division issues its determination to grant an extension and shall be honored by the Department in the same manner as a safe harbor determination noted above. Any letter granting a one-year extension shall be included with a registration along with the original safe harbor determination as provided for in this section.

#### **Section 4. Providing Additional Information**

For the Department's Wildlife Division to make a limited two-year determination under Section 2 or a safe harbor determination under section 3 of this Appendix, limited additional information may be required to determine if the construction activity would impact listed species or their associated habitat. If the species in question is a state listed endangered or threatened species under section 26-306 of the general statutes, a registrant shall, in consultation with the Department's Wildlife Division, provide the limited additional information requested by the Department's Wildlife Division. Such information may include, but is not limited to, a survey of specific listed species in question. If the species in question is a federally listed threatened or endangered species, in addition to the Department's Wildlife Division, a registrant shall also consult with the U.S. Fish and Wildlife Service and shall provide any additional information requested by that agency. A registrant that initially sought or obtained a limited two-year determination may, after providing the additional information required under this section request a safe harbor determination under Section 3 of this Appendix.

At any time, as an alternative to proceeding under Section 2, 3 or 4 of this Appendix, a registrant may stipulate, in writing, to the presence of one or more listed species or their associated habitat. A registrant choosing this alternative shall proceed to develop a mitigation plan under Section 5 of this Appendix.

If based upon any additional information provided to the Department's Wildlife Division, and as applicable, the U.S. Fish & Wildlife Service, the Department's Wildlife division determines that construction activity will be in compliance with section 3(b)(2) of the GP, a registrant shall receive a limited two-year determination under Section 2 or a safe harbor determination under Section 3 of this Appendix, as applicable.

If the Department's Wildlife Division determines that additional information is necessary to determine if the construction activity has the potential to impact listed species or their associated habitat, and a registrant chooses to not provide such information, a registrant shall proceed with the self-assessment through an NDDB review under Section 1 of this Appendix, or stipulate to the existence of a listed species or associated habitat and develop a mitigation plan under Section 5 or such registrant shall not be eligible to register under the GP.

### **Section 5. Developing a Mitigation Plan**

The Department's Wildlife Division may determine that the construction activity has the potential to adversely impact listed species or their associated habitat. However, it may be possible to modify the construction activity or undertake certain on-site measures to avoid or significantly minimize such impacts. If the species or associated habitat in question is a state listed endangered or threatened species under section 26-306 of the general statutes, a registrant shall consult with the Department's Wildlife Division to determine if an acceptable mitigation plan can be developed so impacts can be avoided or minimized such that a registrant remains in compliance with section 3(b)(2). If the species in question is a federally listed threatened or endangered species, any such consultation shall also include the U.S. Fish and Wildlife Service.

If a registrant in consultation with the Department's Wildlife Division, and as applicable, the U.S. Fish & Wildlife Service, develops a mitigation plan that is approved by the Department's Wildlife Division, or as applicable, the U.S. Fish & Wildlife Service, the registrant shall receive a limited two-year determination under Section 2 or a safe harbor determination under Section 3 of this Appendix. In this situation, in addition to checking the two-year determination box or the safe harbor determination box, as applicable, on the registration form, the registrant shall also check the box on the registration form indicating that it has an approved mitigation plan and provide a status update on the registration form as to whether it has completed or is still in the process of implementing the approved mitigation plan.

If an approved mitigation plan has not been fully implemented by the time a registration is submitted, completing all remaining tasks in the plan shall become an enforceable condition of any registration issued to the registrant.

If the Department determines that the construction activity has the potential to adversely impact listed species or their associated habitat and the registrant and the Department, and as applicable, the U.S. Fish & Wildlife Service, are not able to agree on an acceptable mitigation plan that is approved by the Department, and as applicable, the U.S. Fish & Wildlife Service, any such registrant shall not be eligible to register under the GP.



**APPENDIX A**  
**ATTACHMENT A**

**Specific Information Needed to Apply for a Safe Harbor Determination**

A Safe Harbor Determination will be made upon the submission of a detailed report that fully addresses the matters noted below. For the Department's Wildlife Division to make a safe harbor determination, the report should synthesize and analyze this information, not simply compile information. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

1) Habitat Information, including GIS mapping overlays, identifying:

- wetlands, including wetland cover types;
- plant community types;
- topography;
- soils;
- bedrock geology;
- floodplains, if any;
- land use history; and
- water quality classifications/criteria.

2) Photographs - The report should also include photographs of the site, including all reasonably available aerial or satellite photographs and an analysis of such photographs.

3) Inspection - The report should include a visual inspection(s) of the site, preferably when the ground is visible. This inspection can also be helpful in confirming or further evaluating the items noted above.

4) Biological Surveys - The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.

5) Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity. This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.

6) In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:

- Information on Site Disturbance Estimates/Site Alteration information
- Vehicular Use
- Construction Activity Phasing Schedules, if any; and
- Alternation of Drainage Patterns

## APPENDIX B

### Connecticut Department of Energy & Environmental Protection Inland Water Resources Division Fact Sheet Considering Low Impact Development Principles in Site Design

In order to reduce the impact of development and address stormwater quality issues, the Department requires the use of Low Impact Development (LID) measures in accordance with Sections 5(b)(2)(C)(i) and (ii) of the general permit. LID is a site design strategy intended to maintain or replicate predevelopment hydrology through the use of small-scale controls, integrated throughout the site, to manage stormwater runoff as close to its source as possible. Infiltration of stormwater through LID helps to remove sediments, nutrients, heavy metals, and other types of pollutants from runoff.

#### Key Strategies for LID

Key strategies for effective LID include: infiltrating, filtering, and storing as much stormwater as feasible, managing stormwater close to where the rain/snow falls, managing stormwater at multiple locations throughout the landscape, conserving and restoring natural vegetation and soils, preserving open space and minimizing land disturbance, designing the site to minimize impervious surfaces, and providing for maintenance and education. Water quality and quantity benefits are maximized when multiple techniques are grouped together. In areas of compacted and/or possibly contaminated soils, soil suitability should be further investigated prior to selecting optimum treatment and/or remediation measures. Where soil conditions permit, the DEEP encourages the utilization of one, or a combination of, the following measures:

- the use of pervious pavement or grid pavers (which are very compatible for parking lot and fire lane applications), or impervious pavement without curbs or with notched curbs to direct runoff to properly designed and installed infiltration areas;
- the use of vegetated swales, tree box filters, and/or infiltration islands to infiltrate and treat stormwater runoff (from building roofs, roads, and parking lots);
- the minimization of access road widths and parking lot areas to the maximum extent possible to reduce the area of impervious surface;
- the use of dry wells to manage runoff from building roofs;
- incorporation of proper physical barriers or operational procedures for special activity areas where pollutants could potentially be released (e.g. loading docks, maintenance and service areas, dumpsters, etc.);
- the installation of rainwater harvesting systems to capture stormwater from building roofs for the purpose of reuse for irrigation (i.e. - rain barrels for residential use and cisterns for larger developments);
- the use of residential rain gardens to manage runoff from roofs and driveways;
- the use of vegetated roofs (green roofs) to detain, absorb, and reduce the volume of roof runoff; and
- providing for pollution prevention measures to reduce the introduction of pollutants to the environment.

The [2004 Stormwater Quality Manual LID Appendix](#) and the [2002 Erosion and Sediment Control Guidelines LID Appendix](#) both provide guidance on implementing LID measures. A guide to LID resources can also be found in the [DEEP Low Impact Development Resources Factsheet](#) (PDF).

#### LID in Urban Areas

If the proposed site is located in a highly urbanized area, it is likely underlain by urban land complex soils. The Natural Resources Conservation Service (NRCS) Soil Web Survey (<http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>) provides information on soil textures, parent materials, slopes, height of seasonal high water table, depth to restrictive layer, and permeability. In highly developed areas, infiltration may be limited due to the high percentage of impervious cover. However, infiltration practices may be suitable at urban sites depending on:

- Potential contamination of soils in historically industrialized areas. The siting of areas for infiltration must consider any existing soil or groundwater contamination.

- Site specific soil conditions. NRCS mapping consists of a minimum 3 acres map unit and soils may vary substantially within each mapping unit. Test pits should be dug in areas planned for infiltration practices to verify soil suitability and/or limitations.
- Investigation of areas of compacted soils and the utilization of proper construction staging. Planning should insure that areas to be used for infiltration are not compacted during the construction process by vehicles or machinery.

Even if infiltration is limited at a site, it is still possible to implement LID practices. Specifically, potential exists for the installation of green roofs on buildings and/or the use of cisterns to capture and reuse rainwater.

#### **LID in Areas with a High Seasonal Water Table or Hardpan Layer**

- The impact of stormwater runoff to any streams and/or wetlands near the site should be considered. Water quality treatment is influenced by hydraulic conductivity and time of travel. If stormwater infiltration is limited by an impermeable layer close to the surface, the water may run laterally through the ground and discharge to the stream or wetlands, providing limited water quality treatment. However, a longer time of travel may provide sufficient treatment. Proper soil testing for infiltration potential will increase the likelihood of successful BMP design.
- In areas with a high seasonal water table, bioretention areas/rain gardens should be planted with water tolerant/wetland plants. The presence of a high seasonal water table suggests that water may drain slowly or not at all during certain parts of the year. Planting native wetland vegetation will help to ensure plant survival and increase the effectiveness of bioretention practices. Information on native plantings that are both drought tolerant and tolerant of wet conditions can be found in The UConn Cooperative Extension System's guide to building a rain garden at [http://nemo.uconn.edu/publications/rain\\_garden\\_broch.pdf](http://nemo.uconn.edu/publications/rain_garden_broch.pdf). Native plant lists for Connecticut can also be found at <http://www.fhwa.dot.gov/environment/rdsduse/ct.htm>.

#### **LID Guidance for Federal Projects**

- LID techniques have been utilized by Department of Defense (DoD) agencies during the last several years. The effectiveness of these projects in managing runoff as well as reducing construction and maintenance costs has created significant interest in LID. The DoD has created a Unified Facilities Criteria document, Low Impact Development that provides guidelines for integrating LID planning and design into a facility's regulatory and resource protection programs. It is available on-line at: [http://www.wbdg.org/ccb/DOD/UFC/ufc\\_3\\_210\\_10.pdf](http://www.wbdg.org/ccb/DOD/UFC/ufc_3_210_10.pdf).
- Section 438 of the Energy Independence and Security Act (EISA) of 2007 requires federal agencies to reduce stormwater runoff from federal development projects to protect water resources. In December 2009, the EPA developed a technical guidance document on implementing the stormwater runoff requirements for federal projects under Section 438 of EISA. The document contains guidance on how compliance with Section 438 can be achieved, measured and evaluated and can be found at: [http://www.epa.gov/owow/NPS/lid/section438/pdf/final\\_sec438\\_eisa.pdf](http://www.epa.gov/owow/NPS/lid/section438/pdf/final_sec438_eisa.pdf).

**For more information contact the CT DEEP Watershed Management/Low Impact Development Program call (860)424-3716.**

## List of Runoff Reduction/LID Practices

Re-Forestation
Disconnection of Rooftop Runoff
Disconnection of Non-Rooftop Runoff
Sheetflow to Conservation Areas
Green Roof
Permeable Pavement
Rainwater Harvesting
Submerged Gravel Wetlands
Micro-Infiltration
Rain Gardens
Bioretention
Landscape Infiltration
Grass Swales
Bio-swales
Wet Swales
Stormwater Ponds
Stormwater Wetlands
Stormwater Filtering Systems
Stormwater Infiltration



## General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

### APPENDIX C

#### AQUIFER PROTECTION AREAS AND OTHER GROUNDWATER DRINKING SUPPLY AREAS GUIDANCE INFORMATION

The Stormwater Pollution Control Plan (“the Plan”) shall consider measures to reduce or mitigate potential impacts to both ground water (aquifers) and surface waters, taking into consideration both quantity and quality of the runoff. The emphasis should be to minimize, to the extent possible, changes between pre-development and post-development runoff rates and volumes.

The basic stormwater principals for Aquifer Protection Areas (and other groundwater drinking supply areas) are to prevent inadvertent pollution discharges/releases to the ground, while encouraging recharge of stormwater where it does not endanger groundwater quality. Measures include:

- prevent illicit discharges to storm water, including fuel/chemical pollution releases to the ground;
- minimize impervious coverage and disconnect large impervious areas with natural or landscape areas;
- direct paved surface runoff to aboveground type land treatment structures – sheet flow, surface swales, depressed grass islands, detention/retention and infiltration basins, and wet basins. These provide an opportunity for volatilization of volatile organic compounds to the extent possible before the stormwater can infiltrate into the ground;
- provide necessary impervious pavement in high potential pollutant release areas. These “storm water hot spots” include certain land use types or storage and loading areas, fueling areas, intensive parking areas and roadways (see table below);
- only use subsurface recharge structures such as dry wells, galleries, or leaching trenches, to directly infiltrate clean runoff such as rooftops, or other clean surfaces. These structures do not adequately allow for attenuation of salts, solvents, fuels or other soluble compounds in groundwater that may be contained in runoff; and
- restrict pavement deicing chemicals, or use an environmentally suitable substitute such as sand only, or alternative de-icing agents such as calcium chloride or calcium magnesium.

**Infiltration** of stormwater should be **restricted** under the following site conditions:

- **Land Uses or Activities with Potential for Higher Pollutant Loads:** Infiltration of stormwater from these land uses or activities (refer to Table 7-5 below), also referred to as stormwater “hotspots,” can contaminate public and private groundwater supplies. Infiltration of stormwater from these land uses or activities may be allowed by the review authority with appropriate pretreatment. Pretreatment could consist of one or a combination of the primary or secondary treatment practices described in the Stormwater Quality Manual provided that the treatment practice is designed to remove the stormwater contaminants of concern.
- **Subsurface Contamination:** Infiltration of stormwater in areas with soil or groundwater contamination such as brownfield sites and urban redevelopment areas can mobilize contaminants.
- **Groundwater Supply and Wellhead Areas:** Infiltration of stormwater can potentially contaminate groundwater drinking water supplies in immediate public drinking water wellhead areas.

**Land Uses or Activities with Potential for Higher Pollutant Loads**

Table 7-5 of the 2004 Stormwater Quality Manual

<u><b>Land Use/Activities</b></u>	
<ul style="list-style-type: none"> <li>• Industrial facilities subject to the DEEP Industrial Stormwater General Permit or the U.S. EPA National Pollution Discharge Elimination System (NPDES) Stormwater Permit Program</li> <li>• Vehicle salvage yards and recycling facilities</li> <li>• Vehicle fueling facilities (gas stations and other facilities with on-site vehicle fueling)</li> <li>• Vehicle service, maintenance, and equipment cleaning facilities</li> <li>• Fleet storage areas (cars, buses, trucks, public works)</li> <li>• Commercial parking lots with high intensity use (shopping malls, fast food restaurants, convenience stores, supermarkets, etc.)</li> <li>• Public works storage areas</li> </ul>	<ul style="list-style-type: none"> <li>• Road salt storage facilities (if exposed to rainfall)</li> <li>• Commercial nurseries</li> <li>• Flat metal rooftops of industrial facilities</li> <li>• Facilities with outdoor storage and loading/unloading of hazardous substances or materials, regardless of the primary land use of the facility or development</li> <li>• Facilities subject to chemical inventory reporting under Section 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), if materials or containers are exposed to rainfall</li> <li>• Marinas (service and maintenance)</li> <li>• Other land uses and activities as designated by the review authority</li> </ul>

For further information regarding the design of stormwater collection systems in Aquifer Protection Areas, contact the Aquifer Protection Area Program at (860) 424-3020 or visit [www.ct.gov/deep/aquiferprotection](http://www.ct.gov/deep/aquiferprotection).



**General Permit for the Discharge of Stormwater and Dewatering Wastewaters  
from Construction Activities**

**APPENDIX D**

**Coastal Management Act Determination Form**

For sites within the Coastal Boundary, please attach this form and written approval from the local governing authority (or verification of exemption) to the Registration Form for the Discharge of Stormwater and Dewatering Wastewaters From Construction Activities.

**SITE INFORMATION**

Future Permittee _____
Mailing Address _____
Business Phone _____ ext.: _____ Fax: _____
Contact Person _____ Title: _____
Site Name _____
Site Address/ Location _____
Site Latitude and Longitude _____
Receiving Water (name, basin) _____
Project Description _____
_____

**STATEMENT OF REVIEW:**

<p>The above referenced project is consistent with the goals and policies in section 22a-92 of the Connecticut General Statutes and will not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes.</p> <p>Date of Coastal Site Plan Approval: _____</p> <p><input type="checkbox"/> Copy of written approval attached, or</p> <p><input type="checkbox"/> Verification of exemption attached</p>
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## APPENDIX E

**Memorandum of Agreement  
Between  
The Connecticut Department of Energy & Environmental Protection  
and the  
the Five Conservation Districts of Connecticut  
for  
Technical Assistance for Locally Approvable Stormwater Construction General Permits**

**WHEREAS**, the Commissioner of the Department of Energy and Environmental Protection (“Department” or “DEEP”) is authorized by section 22a-6(a)(2)(3) and (4) of the Connecticut General Statutes (“CGS”) to enter into this Agreement; and

**WHEREAS**, the five Conservation Districts of Connecticut (collectively, the “Districts”), are not-for-profit corporations duly authorized, organized and existing under the laws of the State of Connecticut and are authorized by section 22a-315 of the CGS and section 22a-315-14 of the Regulations of Connecticut State Agencies to enter into this Agreement; and

**WHEREAS**, section 22a-430b of the Connecticut General Statutes authorizes the Department to regulate stormwater discharges from construction activities under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities (“the Construction General Permit” or “CGP”), which has been or shall be issued on October 1, 2019. The Construction General Permit requires the implementation of erosion and sediment controls to control the discharge of sediment from construction and post-construction discharges; and

**WHEREAS**, Construction General Permits require the preparation and implementation of a Stormwater Pollution Control Plan (“Plan” or “SWPCP”) to prevent erosion and the discharge of sediment to the waters of the state; and

**WHEREAS**, pursuant to section 22a-315 of the CGS, soil and water conservation districts and boards were established to advise the Commissioner on matters of soil and water conservation and erosion and sediment control and to assist the Commissioner in implementing programs related to soil and water conservation and erosion and sediment control; and

**WHEREAS**, pursuant to section 22a-315 of the CGS, the soil and water conservation districts and boards may receive funds from private sources for services provided to promote soil and water conservation and to assist the Commissioner in the implementation of related programs; and

**WHEREAS**, section 22a-326 of the CGS declares the policy of the state “to strengthen and extend its erosion and sediment control activities and programs and to establish and implement, through the Council on Soil and Water Conservation, soil and water conservation districts, the municipalities and the Commissioner of Energy and Environmental Protection, a state-wide coordinated erosion and sediment control program which shall reduce the danger from storm water runoff, minimize nonpoint sediment pollution from land being developed and conserve and protect the land, water, air and other environmental resources of the state;” and

**WHEREAS**, the Districts have understanding and experience in reviewing erosion and sediment control plans because of their longstanding participation in the municipal approval process, as required by section 22a-329 of the CGS; and

**WHEREAS**, DEEP and the Districts are jointly dedicated to protecting the waters of the state by controlling the discharge of sediment and the pollution resulting from stormwater runoff.



**NOW, THEREFORE**, in consideration of the mutual covenants and conditions hereinafter stated, the Parties agree as follows:

### **Special Conditions**

#### **I. REQUIREMENTS FOR TECHNICAL ASSISTANCE BY DISTRICTS**

- A. SWPCP technical assistance shall be conducted by a District representative having one or more of the following minimum qualifications: (i) a bachelor's degree in hydrology, engineering (agricultural, civil, environmental, or chemical), landscape architecture, geology, soil science, environmental science, natural resources management, or a related field and two years of professional and field experience, or (ii) the EnviroCert International, Inc. designation as a Certified Professional in Erosion and Sediment Control (CPESC), Certified Erosion, Sediment and Stormwater Inspector (CESSWI), or a Certified Professional in Stormwater Quality (CPSWQ).
- B. All technical assistance on SWPCPs undertaken by a District shall be conducted in accordance with the guidelines and procedures established by DEEP in consultation with the Districts, as further described below.

#### **II. LOCALLY APPROVABLE PROJECTS**

For locally approvable projects, as defined in the Construction General Permit, with five (5) or more acres of soil disturbance, the appropriate District (as indicated in Exhibit 2 of this agreement) shall review Stormwater Pollution Control Plans submitted to the District in accordance with Section 3(b)(10) of the CGP, shall determine whether each such SWPCP is consistent with the requirements of the CGP, and shall advise the Commissioner in writing of its determination regarding the SWPCP's consistency. The appropriate District may request assistance from another District or re-assign a project to another District upon mutual consent of the Districts. The Commissioner will be notified in writing of any re-assignment.

##### **A. Components of the SWPCP Review by the Districts**

###### **1. Requirements for Conducting a Review:**

The District shall begin a SWPCP review upon the receipt of the all of following: the developer's request for review, two hard copies and a digital copy of the proposed SWPCP, a non-refundable down payment from the permittee as per the Fee Schedule in Exhibit 1 and the written permission of the developer to enter onto and inspect the project site. Once the District is in receipt of all the documents and the fee as delineated above, the developer's SWPCP shall be considered submitted to the District.

###### **2. Determinations of Consistency by the District after Review of the SWPCP and Subsequent Procedures**

###### **(a) If the District determines the developer's SWPCP is:**

(i) Consistent with the requirements of the Construction General Permit, the District shall issue an affirmative determination notice to both the developer or such developer's designee and to DEEP in order to advise them of the adequacy of the SWPCP. The District shall also provide a copy of the SWPCP to DEEP if requested by the Commissioner.

(ii) Not consistent with the requirements of the Construction General Permit, the District shall provide a written notice of such inconsistency to the developer or such developer's designee; such notice shall include a list of the SWPCP's deficiencies and any appropriate explanatory comments.

- (b) If the developer’s SWPCP is found to be inconsistent with the CGP, the developer may revise the SWPCP (the “Revised SWPCP”) to address any deficiencies noted by the District and resubmit its Revised SWPCP to the District for review.
- (c) If the District receives a Revised SWPCP in accordance with subsection (b) above, the District shall perform a review of the Revised SWPCP. If the Revised SWPCP is deemed:
  - (i) Consistent with the requirements of the Construction General Permit, the District shall (1) issue an affirmative determination notice to both the project developer or such project developer’s designee and to DEEP to advise them of the adequacy of the SWPCP and (2) provide a copy of the SWPCP to the DEEP if requested by the Commissioner; or
  - (ii) Not consistent with the requirements of the CGP after this review, the District shall provide a written notice of such inconsistency to the developer or such developer’s designee. This notice shall include a list of all remaining SWPCP deficiencies and any explanatory comments as appropriate.
- (d) In the event the District determines after review of the Revised SWPCP in accordance with subsection (c), above, that the Revised SWPCP remains inconsistent with the requirements of the Construction General Permit, the developer shall continue to resubmit a Revised SWPCP in accordance with subsection (c), above, until such time as the District determines that the SWPCP is consistent with the requirements of the Construction General Permit and issues an affirmative determination notice. As such, the resubmitted Revised SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section II.B., and other applicable sections of this document, and the fee shall remain in accordance with the Fee Schedule in Exhibit 1.
- (e) Revisions to a SWPCP subsequent to the District’s prior approval of developer’s SWPCP

In the event the developer revises a SWPCP after the District has determined that the developer’s SWPCP, prior to this revision, was consistent with the requirements of the Construction General Permit, the SWPCP shall be considered a Post-Approval Resubmission. In such a case, the District shall review the SWPCP in accordance with the timeframes set forth in Section II.B., and other applicable sections of this document, and the fee shall be in accordance with the Fee Schedule in Exhibit 1.

**B. Plan Review Timeframes**

1. The District shall review a new submission of a SWPCP submitted by a developer or such developer’s designee and provide review comments or issue an affirmative determination notice within thirty (30) calendar days of the date of a complete submission as specified in Section II.A.1.
2. If the District identifies deficiencies in the SWPCP, the District shall allow the developer or such developer’s designee the opportunity to revise their SWPCP and resubmit it to the District within fifteen (15) calendar days after the date of mailing or delivery of the District’s written comments to the developer or such developer’s designee.
3. The District shall review any SWPCP revised in accordance with subsection II.B.2., above, and provide a written determination of the SWPCP’s consistency or inconsistency within fifteen (15) calendar days after the submission of the revised SWPCP. Subsequent resubmissions of a revised SWPCP shall be in accordance with the same timeframes.
4. At the request of the District or the developer and with the agreement of both the District and the developer, the deadlines stated in subsections 1. – 3., above, may be extended. However, any such

extensions shall be limited to no more than double the original amount of time allowed above for the relevant action.

5. Expedited review of a SWPCP may be requested by a developer. However, the Districts shall have complete discretion to accept or decline such request for an expedited review based on the District's circumstances, including, but not limited to: their existing workload, vacation schedules and staffing. If a District grants an expedited review, the timeframe shall be reduced to no more than one third of the timeframes noted in subsection 1. – 3., above, and the fee and non-refundable down payment shall be twice those amounts listed in Exhibit 1.
6. In the event a District does not complete the review of the SWPCP within sixty (60) days (or within the time allowed under any resubmissions or authorized extension pursuant to subsections B.3 and B.4, above, but in no circumstance later than 120 days) of the date the SWPCP was initially submitted to the District, and provided such delay is not the result of the developer's or such developer's designee's failure to address SWPCP deficiencies as noted in subsection B.2, above, the District shall:
  - (a) not later than three (3) days after the District's deadline, notify the DEEP that the developer shall be initiating the registration process for the Construction General Permit in accordance with section II.B of this Agreement, for completion of the SWPCP review, and;
  - (b) provide to the DEEP, upon request, the District's complete file, including supporting documentation the developer's SWPCP consistency determination, including, but not limited to, the SWPCP, any other documentation submitted to the District by or on behalf of a developer, and any analysis already performed by the District; and
  - (c) not later than seven (7) days after the District's deadline, in accordance with section II.B of this Agreement, for completion of the SWPCP review, transfer to the DEEP all fees that were originally submitted by the developer.

#### C. Inspections of the Project Site

1. Prior to the commencement of project construction and during the course of the SWPCP review process, the District shall conduct at least one inspection of the project site.
2. Once the construction of the project has begun, the District shall make at least one, but not more than three, inspection(s) of the project site to verify that the developer's SWPCP is being implemented as approved by the District. The District shall report the results of the inspection(s) to the developer or such developer's designee and to DEEP in a manner prescribed by the Commissioner.
3. Upon notification from the developer or developer's designee, in accordance with Section 6(a)(1) of the CGP, that construction of the stormwater collection and management system is complete, the District shall conduct one inspection of the project site to verify that the post-construction stormwater management measures were completed in accordance with the approved SWPCP. The District shall report the results of this inspection to DEEP in a manner prescribed by the Commissioner.

#### D. Audits

The District agrees that all records pertaining to this Agreement shall be maintained for a period of not less than five (5) years. Such records shall be made available to the DEEP and to the state auditors upon request. For the purposes of this Agreement, "Records" are all working papers and such information and materials as may have been accumulated by the District in performing the Agreement, including, but not limited to, documents, data, analysis, plans, books, computations, drawings, specifications, notes, reports, records, estimates, summaries and correspondence, kept or stored in any form.

### **III. FEE SCHEDULE.**

- A.** A District may assess fees for the services it renders in conjunction with its SWPCP reviews. Such fees shall be assessed in accordance with the Fee Schedule in Exhibit 1. All fees shall be submitted by the developer to the District with the developer's request for review and inspections. These fees are non-refundable.
- B.** The Fee Schedule shall be reviewed annually by the Parties. The Fee Schedule may be adjusted as warranted, without a formal amendment to this Agreement, by mutual agreement between the Districts and the Commissioner.

### **IV. RESPONSIBILITIES OF DEEP.**

- A.** In accordance with the Construction General Permit requirements for SWPCP reviews of locally approvable projects by a third party, DEEP shall conduct outreach to inform the development community that a District may review SWPCPs for consistency with the requirements of the Construction General Permit. DEEP shall also inform the development community that a registration form for authorization of a locally approvable project under the Construction General Permit may only be submitted to DEEP if: the District, or other third party in accordance with Section 3(b)(11) of the CGP, determines that the SWPCP is consistent with the requirements of the CGP, or in the event the time schedule is exceeded for a District review as described in section II.B.6, above.
- B.** In order to institute standard SWPCP review guidelines and procedures, DEEP shall coordinate with the Districts to prepare a SWPCP checklist. The standard review guidelines and procedures established shall be consistent with the requirements of the Construction General Permit, the 2002 CT Guidelines for Soil Erosion and Sediment Control, and the 2004 Stormwater Quality Manual, as respectively amended. The Commissioner shall have final approval of the review guidelines and procedures.
- C.** DEEP shall provide initial training regarding SWPCP requirements for District staff involved in SWPCP reviews. The frequency of subsequent training shall be determined by the Commissioner.
- D.** DEEP shall retain final decision making authority regarding the determination that a SWPCP is or is not consistent with the requirements of the Construction General Permit and shall oversee the permitting process for Construction General Permit coverage.
- E.** Once a SWPCP has been approved, DEEP shall oversee any subsequent compliance and/or enforcement matters related to a developer's adherence to the requirements of the Construction General Permit.
- F.** DEEP shall have the discretion to review any of the Districts' records pertaining to any aspect this Agreement.

### **V. POINTS OF CONTACT.**

The following shall be points of contact for this Agreement unless otherwise agreed to by all Parties, notwithstanding section VI. All notices, demands, requests, consents, approvals or other communications required or permitted to be given or which are given with respect to this Agreement (for the purpose of this section collectively called "Notices") shall be deemed to have been effected at such time as the notice is placed in the U.S. mail, first class and postage prepaid, return receipt requested, or, placed with a recognized, overnight express delivery service that provides for a return receipt. All such Notices shall be in writing and shall be addressed as follows:

**A. DEEP**

Director  
Water Permitting & Enforcement Division  
Bureau of Material Management & Compliance Assurance  
Department of Energy & Environmental Protection  
79 Elm St.  
Hartford, CT 06106  
Phone: 860-424-3018  
Fax: 860-424-4074

**B. Conservation District**

Board Chairperson  
Address & Phone of appropriate District:

Northwest Conservation District  
1185 New Litchfield Street  
Torrington, CT 06790  
Ph: 860-626-7222  
Fax: 860-626-7222  
Email: info@nwcd.org

Eastern Connecticut Conservation District  
238 West Town Street  
Norwich, CT 06360-2111  
Ph: 860-319-8806  
Email: Dan.Mullins@comcast.net

Connecticut River Coastal Conservation District, Inc.  
deKoven House Community Center  
27 Washington Street  
Middletown, CT 06457  
Ph: 860-346-3282  
Email: ctrivercoastal@conservect.org

Southwest Conservation District  
51 Mill Pond Road  
Hamden, CT 06514  
Ph: 203-859-7014  
Email: csullivan@conservect.org

North Central Conservation District  
24 Hyde Avenue  
Vernon, CT 06066  
Ph: 860-875-3881  
Email: tollandc@snet.net

**General Conditions**

**VI. EXECUTIVE ORDERS AND ANTI-DISCRIMINATION.** This Contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which

are incorporated into and are made a part of the Contract as if they had been fully set forth in it. The Contract may also be subject to Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services and to Executive Order No. 49 of Governor Dannel P. Malloy, promulgated May 22, 2015, mandating disclosure of certain gifts to public employees and contributions to certain candidates for office. If Executive Order 14 and/or Executive Order 49 are applicable, they are deemed to be incorporated into and are made a part of the Contract as if they had been fully set forth in it. At the Contractor's request, the Client Agency or DAS shall provide a copy of these orders to the Contractor.

**VII. AMENDMENTS.** Either the DEEP or the Districts may recommend revisions to this Agreement as circumstances may warrant; however, any revisions must be upon mutual agreement of DEEP and all five Conservation Districts. Unless otherwise stated in this Agreement, formal written amendment is required for changes to any of the terms and conditions specifically stated in the Agreement, any prior amendments to the Agreement, and any other Agreement revisions determined material by the Department.

**VIII. SEVERABILITY.** The provisions of this Agreement are severable. If any part of it is found unenforceable, all other provisions shall remain fully valid and enforceable, unless the unenforceable provision is an essential element of the bargain.

**IX. SOVEREIGN IMMUNITY.** The Parties acknowledge and agree that nothing in the Agreement shall be construed as a modification, compromise or waiver by the State of any rights or defenses of any immunities provided by federal law or the laws of the State of Connecticut to the State or any of the State's, which they may have had, now have or shall have with respect to all matters arising out of the Agreement. To the extent that this section conflicts with any other section, this section shall govern.

**X. FORUM AND CHOICE OF LAW.** The Agreement shall be deemed to have been made in the City of Hartford, State of Connecticut. Both Parties agree that it is fair and reasonable for the validity and construction of the Agreement to be, and it shall be, governed by the laws and court decisions of the State of Connecticut, without giving effect to its principles of conflicts of laws. To the extent that any immunities provided by federal law or the laws of the State of Connecticut do not bar an action against the State or the Districts, and to the extent that these courts are courts of competent jurisdiction, for the purpose of venue, the complaint shall be made returnable to the Judicial District of Hartford only or shall be brought in the United States District Court for the District of Connecticut only, and shall not be transferred to any other court, provided, however, that nothing here constitutes a waiver or compromise of the sovereign immunity of the State of Connecticut. The Districts waive any objection which they may now have or shall have to the laying of venue of any Claims in any forum and further irrevocably submits to such jurisdiction in any suit, action or proceeding.

**XI. TERMINATION.** Notwithstanding any provisions in this Agreement, DEEP, through a duly authorized employee, may terminate the Agreement whenever the Agency makes a written determination that such Termination is in the best interests of the State. The Agency shall notify the Districts in writing sent by certified mail, return receipt requested, which notice shall specify the effective date of Termination and the extent to which the Districts must complete its Performance under the Agreement prior to such date; or (b) The Districts may terminate the Agreement for good cause. The Districts shall notify DEEP by written notice at least one hundred eighty (180) days prior to the effective date of termination. In order for the Districts to terminate this Agreement, (1) there must be a consensus between all five Conservation Districts that each District shall be terminating this Agreement with the DEEP; (2) such proof of consensus shall be submitted to the DEEP in the form of a letter signed by the duly authorized agent for each District by certified mail, return receipt requested, at least one hundred eighty (180) days prior to the Districts' intention to cancel or terminate. Upon the Termination of this Agreement by either Party, the Districts shall deliver to the Agency copies of all Records no later than thirty (30) days after the Termination of the Agreement, or fifteen (15) days after the Non-terminating Party receives a written request from the Terminating Party for the Records. The Districts shall deliver those Records that exist in electronic, magnetic or other intangible form in a non-proprietary format, such as, but not limited to, PDF, ASCII or .TXT. Upon receipt of a written notice of

Termination from the Agency, the Districts shall cease operations as the Agency directs in the notice, and take all actions that are necessary or appropriate, or that the Agency may reasonably direct, for the protection, and preservation of records. Except for any work which the Agency directs the Districts to Perform in the notice prior to the effective date of Termination, and except as otherwise provided in the notice, the Districts shall terminate or conclude all existing subcontracts and purchase orders and shall not enter into any further subcontracts, purchase orders or commitments. Upon Termination of the Agreement, all rights and obligations shall be null and void, so that no Party shall have any further rights or obligations to any other Party, except with respect to the sections which survive Termination. All representations, warranties, agreements and rights of the Parties under the Agreement shall survive such Termination to the extent not otherwise limited in the Agreement and without each one of them having to be specifically mentioned in the Agreement. Termination of the Agreement pursuant to this section shall not be deemed to be a breach of Agreement by the Agency.

**XII. DURATION OF AGREEMENT.** This Agreement shall be effective on July 1, 2019 or on the date of the last signature below, whichever is later, and shall continue in force unless canceled or terminated by either party in accordance with paragraph XI above.

**XIII. VOID AB INITIO.** Notwithstanding paragraphs XI and XII, the Agreement shall be void *ab initio* if the Construction General Permit is reissued, revoked or modified to eliminate the need for the Districts to review the SWPCP pursuant to such general permit's terms and conditions or if the Construction General Permit expires and is not reissued.

**XIV. INTERPRETATION.** The Agreement contains numerous references to statutes and regulations. For purposes of interpretation, conflict resolution and otherwise, the content of those statutes and regulations shall govern over the content of the reference in the Agreement to those statutes and regulations.

**XV. ENTIRETY OF AGREEMENT.** This Agreement is the entire agreement between the Parties with respect to its subject matter, and supersedes all prior agreements, proposals, offers, counteroffers and understandings of the Parties, whether written or oral. The Agreement has been entered into after full investigation, neither Party relying upon any statement or representation by the other unless such statement or representation is specifically embodied in the Agreement.

**XVI. PROTECTION OF STATE CONFIDENTIAL INFORMATION.**

- A. The Districts or District Parties, at their own expense, have a duty to and shall protect from a Confidential Information Breach any and all Confidential Information which they come to possess or control, wherever and however stored or maintained, in a commercially reasonable manner in accordance with current industry standards. Confidential Information is any information that a party claims to be exempt from the state Freedom of Information Act (Section 1-210 et seq of the Connecticut General Statutes, also called FOIA) as specified in that Act.
- B. Each District or District Party shall develop, implement and maintain a comprehensive data-security program for the protection of Confidential Information. The safeguards contained in such program shall be consistent with and comply with the safeguards for protection of Confidential Information, and information of a similar character, as set forth in all applicable federal and state law and written policy of the Department or State concerning the confidentiality of Confidential Information. Such data-security program shall include, but not be limited to, the following:
  - 1. A security policy for employees related to the storage, access and transportation of data containing Confidential Information;
  - 2. Reasonable restrictions on access to records containing Confidential Information, including access to any locked storage where such records are kept;

3. A process for reviewing policies and security measures at least annually;
4. Creating secure access controls to Confidential Information, including but not limited to passwords; and
5. Encrypting of Confidential Information that is stored on laptops, portable devices or being transmitted electronically.

C. The District and District Parties shall notify the Department and the Connecticut Office of the Attorney General as soon as practical, but no later than twenty-four (24) hours, after they become aware of or suspect that any Confidential Information which Parties have come to possess or control has been subject to a Confidential Information Breach. If a Confidential Information Breach has occurred, the District shall, within three (3) business days after the notification, present a credit monitoring and protection plan to the Commissioner of Administrative Services, the Department and the Connecticut Office of the Attorney General, for review and approval. Such credit monitoring or protection plan shall be made available by the District at its own cost and expense to all individuals affected by the Confidential Information Breach. Such credit monitoring or protection plan shall include, but is not limited to, reimbursement for the cost of placing and lifting one (1) security freeze per credit file pursuant to Connecticut General Statutes §36a-701a. Such credit monitoring or protection plans shall be approved by the State in accordance with this Section and shall cover a length of time commensurate with the circumstances of the Confidential Information Breach. The District's costs and expenses for the credit monitoring and protection plan shall not be recoverable from the Department, any State of Connecticut entity or any affected individuals.

D. The District shall incorporate the requirements of this Section in all subAgreements requiring each District Party to safeguard Confidential Information in the same manner as provided for in this Section.

E. Nothing in this Section shall supersede in any manner the District's and/ or the District Parties' obligations pursuant to HIPAA or the provisions of this Agreement concerning the obligations of the District as a Business Associate of the Department.

**XVII. AMERICANS WITH DISABILITIES ACT.** The Districts shall be and remain in compliance with the Americans with Disabilities Act of 1990 ("Act"), to the extent applicable, during the term of the Agreement. The DEEP may cancel the Agreement if the District and District Parties fail to comply with the Act.

**XVIII. ADA PUBLICATION STATEMENT.** The following statement shall be incorporated into all **publications** prepared under the terms of this Agreement:

"The Department of Energy and Environmental Protection is an affirmative action/equal opportunity employer and service provider. In conformance with the Americans with Disabilities Act, DEEP makes every effort to provide equally effective services for persons with disabilities. Individuals with disabilities who need this information in an alternative format, to allow them to benefit and/or participate in the agency's programs and services, should call DEEP's Human Resources Office at (860) 424-3006, send a fax to (860) 424-3896, or email [DEEP.MedRecs@ct.gov](mailto:DEEP.MedRecs@ct.gov). Persons who are hearing impaired should call the State of Connecticut relay number 711."

When advertising any **public meetings** conducted under the terms of this Agreement, the above publications language should be used as well as the following statement:

**"Requests for accommodations must be made at least two weeks prior to the program date."**

All **videos** produced under the terms of this Agreement must be made available with closed captioning.



**XIX. PUBLICATION OF MATERIALS.** The District must obtain written approval from the State of Connecticut prior to distribution or publication of any printed material prepared under the terms of this Agreement. Unless specifically authorized in writing by the State, on a case by case basis, the District shall have no right to use, and shall not use, the name of the State of Connecticut, its officials, agencies, or employees or the seal of the State of Connecticut or its agencies: (1) in any advertising, publicity, promotion; or (2) to express or to imply any endorsement of District's products or services; or (3) to use the name of the State of Connecticut, its officials agencies, or employees or the seal of the State of Connecticut or its agencies in any other manner (whether or not similar to uses prohibited by (1) and (2) above), except only to manufacture and deliver in accordance with this Agreement such items as are hereby contracted for by the State. In no event may the Districts use the State Seal in any way without the express written consent of the Secretary of State.

**XX. CHANGES IN PRINCIPAL PROJECT STAFF.** Any changes in District staff qualified to review Plans must be requested in writing and approved in writing by the Commissioner at the Commissioner's sole discretion. In the event of any unapproved change in District staff, the Commissioner may, in the Commissioner's sole discretion, terminate this Agreement.

**XXI. FURTHER ASSURANCES.** The Parties shall provide such information, execute and deliver any instruments and documents and take such other actions as may be necessary or reasonably requested by the other Party which are not inconsistent with the provisions of this Agreement and which do not involve the vesting of rights or assumption of obligations other than those provided for in the Agreement, in order to give full effect to the Agreement and to carry out the intent of the Agreement.

**XXII. ASSIGNMENT.** The Districts shall not assign any of their rights or obligations under the Agreement, voluntarily or otherwise, in any manner without the prior written consent of the Agency. The Agency may void any purported assignment in violation of this section and declare the District in breach of this Agreement. Any termination by the Agency for a breach is without prejudice to the Agency's or the State's rights or possible Claims.

**XXIII. EXHIBITS.** All exhibits referred to in, and attached to, this Agreement are incorporated in this Agreement by such reference and shall be deemed to be a part of it as if they had been fully set forth in it.

**XXIV. FORCE MAJEUR.** Events that materially affect the cost of the Goods or Services or the time schedule within which to Perform and are outside the control of the party asserting that such an event has occurred, including, but not limited to, labor troubles unrelated to District(s), failure of or inadequate permanent power, unavoidable casualties, fire not caused by a District, extraordinary weather conditions, disasters, riots, acts of God, insurrection or war.

**XXV. INDEMNIFICATION.** The Districts shall indemnify, defend and hold harmless the State and its officers, representatives, agents, servants, employees, successors and assigns from and against any and all (1) Claims arising, directly or indirectly, in connection with the Agreement, including the acts of commission or omission (collectively, the "Acts") of the District or District Parties; and (2) liabilities, damages, losses, costs and expenses, including but not limited to, attorneys' and other professionals' fees, arising, directly or indirectly, in connection with Claims, Acts or the Agreement. The Districts obligations under this section to indemnify, defend and hold harmless against Claims includes Claims concerning confidentiality of any part of or all of the Districts' Records, any intellectual property rights, other proprietary rights of any person or entity, copyrighted or uncopyrighted compositions, secret processes, patented or unpatented inventions, articles or appliances furnished or used in the Performance. The Districts shall not be responsible for indemnifying or holding the State harmless from any liability arising due to the negligence of the State or any other person or entity acting under the direct control or supervision of the State. The Districts shall reimburse the State for any and all damages to the real or personal property of the State caused by the Acts of the Districts or any District Parties. The State shall give the Districts reasonable notice of any such Claims. The Districts shall carry and maintain at all times during the term of the Agreement, and during the time that any

provisions survive the term of the Agreement, sufficient general liability insurance to satisfy its obligations under this Agreement. The Districts shall name the State as an additional insured on the policy and shall provide a copy of the policy to the Agency prior to the effective date of the Agreement. The Districts shall not begin Performance until the delivery of the policy to the Agency. The Agency shall be entitled to recover under the insurance policy even if a body of competent jurisdiction determines that the Agency or the State is contributorily negligent. This section shall survive the Termination of the Agreement and shall not be limited by reason of any insurance coverage.

**XXVI. DISTRICT PARTIES.** A District's members, directors, officers, shareholders, partners, managers, principal officers, representatives, agents, servants, consultants, employees or any one of them or any other person or entity with whom the District is in privity of oral or written contract and the District intends for such other person or entity to Perform under the Agreement in any capacity

**XXVII. CAMPAIGN CONTRIBUTION RESTRICTION.** For all State contracts as defined in P.A. 07-1 having a value in a calendar year of \$50,000 or more or a combination or series of such agreements or contracts having a value of \$100,000 or more, the authorized signatory to this Agreement expressly acknowledges receipt of the State Elections Enforcement Commission's notice advising state contractors of state campaign contribution and solicitation prohibitions, and will inform its principals of the contents of the notice. See SEEC Form 11.

**Authorizing Signatures**

For DEEP: \_\_\_\_\_  
Katherine S. Dykes, Commissioner Date

For Northwest Conservation District: \_\_\_\_\_  
Signature Date  
\_\_\_\_\_  
Title

For Eastern Connecticut Conservation District: \_\_\_\_\_  
Signature Date  
\_\_\_\_\_  
Title

For Connecticut River Coastal Conservation District, Inc.: \_\_\_\_\_  
Signature Date  
\_\_\_\_\_  
Title

For Southwest Conservation District: \_\_\_\_\_  
Signature Date  
\_\_\_\_\_  
Title

For North Central Conservation District: \_\_\_\_\_  
Signature Date  
\_\_\_\_\_  
Title

## Exhibit 1

### Fee Schedule

The Districts will be paid \$120/hour for technical assistance work performed.

Non-refundable down payments required with submission:

\$2,500 for sites  $\leq$  20 acres

\$4,000 for sites  $>$  20 acres

Exhibit 2

**Conservation Districts of Connecticut  
Regional Delineations and Contact Information**

Northwest Conservation District  
1185 New Litchfield Street  
Torrington, CT 06790  
Ph: 860-626-7222  
Fax: 860-626-7222  
Email: info@nwcd.org

Eastern Connecticut Conservation District  
238 West Town Street  
Norwich, CT 06360-2111  
Ph: 860-319-8806  
Email: Dan.Mullins@comcast.net

Connecticut River Coastal Conservation District, Inc.  
deKoven House Community Center  
27 Washington Street  
Middletown, CT 06457  
Ph: 860-346-3282 Email: ctrivercoastal@conservect.org

Southwest Conservation District  
51 Mill Pond Road  
Hamden, CT 06514  
Ph: 203-859-7014  
Email: csullivan@conservect.org

North Central Conservation District  
24 Hyde Avenue  
Vernon, CT 06066  
Ph: 860-875-3881  
Email: tollandc@snet.net

<b>NORTHWEST</b>	<b>SOUTHWEST</b>	<b>NORTH CENTRAL</b>	<b>CT RIVER COASTAL</b>	<b>EASTERN</b>
Barkhamsted	Ansonia	Avon	Berlin	Andover
Bethel	Beacon Falls	Bloomfield	Chester	Ashford
Bethlehem	Bethany	Bolton	Clinton	Bozrah
Bridgewater	Branford	Bristol	Colchester	Brooklyn
Brookfield	Bridgeport	Burlington	Cromwell	Canterbury
Canaan	Cheshire	Canton	Deep River	Chaplin
Colebrook	Darien	Coventry	Durham	Columbia
Cornwall	Derby	East Granby	East Haddam	Eastford
Danbury	East Haven	East Hartford	East Hampton	East Lyme
Goshen	Easton	East Windsor	Essex	Franklin
Hartland	Fairfield	Ellington	Haddam	Griswold
Harwinton	Greenwich	Enfield	Hebron	Groton
Kent	Guilford	Farmington	Killingworth	Hampton
Litchfield	Hamden	Glastonbury	Lyme	Killingly
Morris	Meriden	Granby	Madison	Lebanon
New Fairfield	Middlebury	Hartford	Marlborough	Ledyard
New Hartford	Milford	Manchester	Middlefield	Lisbon
New Milford	Monroe	Plainville	Middletown	Mansfield
Newtown	Naugatuck	Simsbury	Newington	Montville
Norfolk	New Canaan	Somers	New Britain	New
North Canaan	New Haven	South Windsor	Old Lyme	London
Plymouth	North Branford	Stafford	Old Saybrook	North
Roxbury	North Haven	Suffield	Portland	Stonington
Salisbury	Norwalk	Tolland	Rocky Hill	Norwich
Sharon	Orange	Vernon	Salem	Plainfield
Sherman	Oxford	West Hartford	Westbrook	Pomfret
Southbury	Prospect	Wethersfield		Preston
Thomaston	Redding	Willington		Putnam
Torrington	Ridgefield	Windsor		Scotland
Warren	Seymour	Windsor Locks		Sprague
Washington	Shelton			Sterling
Watertown	Southington			Stonington
Winchester	Stamford			Thompson
Woodbury	Stratford			Union
	Trumbull			Voluntown
	Wallingford			Waterford
	Waterbury			Windham
	West Haven			Woodstock
	Weston			
	Westport			
	Wilton			
	Wolcott			
	Woodbridge			

Exhibit 3

**CONSERVATION DISTRICT PLAN REVIEW CERTIFICATION**

Registrations submitted to DEEP for which a Conservation District has performed the Plan review pursuant to Section 3(b)(10) of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities shall include the following certification:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Five Conservation Districts of Connecticut for Technical Assistance for Locally Approvable Construction General Permits. I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify, based on my review of the requirements of such general permit and on the standard of care for such projects, that the Plan is in compliance with the requirements of the general permit. I understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Registrations submitted to DEEP for which the District review was begun but **could not be completed** within the time limits specified in the Memorandum of Agreement shall include the following statement:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Five Conservation Districts of Connecticut for Technical Assistance for Locally Approvable Construction General Permits. I am making this statement in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I hereby state that the review of the Stormwater Pollution Control Plan (Plan) for such registration was not completed within the time frames specified in the Memorandum of Agreement. Consequently, I cannot certify that the Plan is in compliance with the requirements of the general permit."

**APPENDIX F**  
**Memorandum of Agreement**  
**Between**  
**The Connecticut Department of Energy & Environmental Protection**  
**and**  
**the Five Conservation Districts of Connecticut**  
**for**  
**Technical Assistance for Locally Exempt Stormwater Construction General Permits**

WHEREAS, the Commissioner of the Department of Energy and Environmental Protection (“Department” or “DEEP”) is authorized by section 22a-6(a)(2)(3) and (4) of the Connecticut General Statutes (“CGS”) to enter into this Agreement; and

WHEREAS, the five Conservation Districts of Connecticut (collectively, the “Districts”), are not-for-profit corporations duly authorized, organized and existing under the laws of the State of Connecticut and are authorized by section 22a-315 of the CGS and section 22a-315-14 of the Regulations of Connecticut State Agencies to enter into this Agreement; and

WHEREAS, section 22a-430b of the Connecticut General Statutes authorizes the Department to regulate stormwater discharges from construction activities under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities (“the Construction General Permit” or “CGP”), which has been or shall be issued on October 1, 2019. The Construction General Permit requires the implementation of erosion and sediment controls to control the discharge of sediment from construction and post-construction discharges; and

WHEREAS, the Construction General Permit requires the preparation and implementation of a Stormwater Pollution Control Plan (“Plan” or “SWPCP”) to prevent erosion and the discharge of sediment to the waters of the state; and

WHEREAS, pursuant to section 22a-315 of the CGS, soil and water conservation districts and boards were established to advise the Commissioner on matters of soil and water conservation and erosion and sediment control and to assist the Commissioner in implementing programs related to soil and water conservation and erosion and sediment control; and

WHEREAS, pursuant to section 22a-315 of the CGS, the soil and water conservation districts and boards may receive funds from private sources for services provided to promote soil and water conservation and to assist the Commissioner in the implementation of related programs; and

WHEREAS, section 22a-326 of the CGS declares the policy of the state “to strengthen and extend its erosion and sediment control activities and programs and to establish and implement, through the Council on Soil and Water Conservation, soil and water conservation districts, the municipalities and the Commissioner of Energy and Environmental Protection, a state-wide coordinated erosion and sediment control program which shall reduce the danger from storm water runoff, minimize nonpoint sediment



pollution from land being developed and conserve and protect the land, water, air and other environmental resources of the state;” and

WHEREAS, the Districts have understanding and experience in reviewing erosion and sediment control plans because of their longstanding participation in the municipal approval process, as required by section 22a-329 of the CGS; and

WHEREAS, DEEP and the Districts are jointly dedicated to protecting the waters of the state by controlling the discharge of sediment and the pollution resulting from stormwater runoff.

NOW, THEREFORE, in consideration of the mutual covenants and conditions hereinafter stated, the Parties agree as follows:

**Special Conditions**

**II. REQUIREMENTS FOR TECHNICAL ASSISTANCE BY DISTRICTS**

- A. SWPCP technical assistance shall be conducted by a District representative having one or more of the following minimum qualifications: (i) a bachelor’s degree in hydrology, engineering (agricultural, civil, environmental, or chemical), landscape architecture, geology, soil science, environmental science, natural resources management, or a related field and two years of professional and field experience, or (ii) the EnviroCert International, Inc. designation as a Certified Professional in Erosion and Sediment Control (CPESC), Certified Erosion, Sediment and Stormwater Inspector (CESSWI), or a Certified Professional in Stormwater Quality (CPSWQ).
- B. All technical assistance on SWPCPs undertaken by a District shall be conducted in accordance with the guidelines and procedures established by DEEP in consultation with the Districts, as further described below.

**III. LOCALLY EXEMPT PROJECTS**

For locally exempt projects, as defined in the Construction General Permit, with five (5) or more acres of soil disturbance, the appropriate District (as specified in the CGP and as indicated in Exhibit 2 appended hereto) shall, upon request by DEEP, provide technical assistance to DEEP for ensuring implementation of the Stormwater Pollution Control Plan in compliance with the CGP.

**A. SWPCP Compliance Technical Assistance**

- 1. The District shall be responsible for inspections to ensure that the SWPCP is properly implemented in accordance with the CGP by coordinating with the permittee (or designee) and conducting on-site inspections. Technical assistance will begin upon a written request from DEEP, the receipt of two copies of the approved SWPCP, and a down payment from the permittee as per the fee schedule in Exhibit 1. Once the District is in receipt of the documents and such down payment, the permittee’s SWPCP shall be considered submitted to the District and the District will begin the required review in accordance with this agreement and the CGP.

2. **Pre-construction Preparation:** The District will review the approved SWPCP and any other relevant site plans, conduct an on-site visit, and set a date for the pre-construction meeting.
3. **Pre-construction Meeting:** Before the start of any construction, including any clearing of vegetation or installation of erosion and sediment controls (E&S controls), the District will meet with the permittee (or designee), contractor(s) and the qualified professional engineer who designed the project (designing qualified professional engineer) to review E&S control plans for construction and post-construction stormwater controls. Such meeting will include review of the construction schedule/phasing plan, inspection schedule, exchange of contacts, and discussion of any potential problem areas. If construction begins prior to this meeting, the District shall notify DEEP of non-compliance with the CGP.
4. **Plan Implementation Inspection:** The permittee (or designee) will notify the District when the E&S controls are installed and coordinate with the designing qualified professional engineer to schedule the Plan Implementation Inspection. The District will conduct the initial on-site inspection accompanied by the permittee (or designee) and the designing qualified professional engineer. If it is determined that the controls are installed properly and are in compliance with the approved SWPCP, the District will issue a notice that construction may proceed according to the SWPCP phasing plan. If the controls are not installed properly, the District will provide written notification to the permittee (or designee) of any action needed to comply with the SWPCP. The District shall re-inspect the site upon notification by the permittee (or designee) that the site is ready for re-inspection and in accordance with the Plan Implementation Inspection requirements in the CGP. Once the controls are properly installed and are in compliance with the approved SWPCP, the District will issue a notice that construction may proceed according to the SWPCP phasing plan.
5. **Interim Inspections**
  - (a) As determined at the pre-construction meeting and according to the approved SWPCP or as otherwise directed by the Commissioner, interim inspections shall be conducted to verify compliance with the CGP and the SWPCP, including but not limited to, verification of site stabilization at the end of each construction phase and proper installation of controls prior to the beginning of the next phase of construction. Similar to the Plan Implementation Inspection, the permittee (or designee) will notify the District that an inspection is needed for either the closeout of one phase and/or the beginning of another.
  - (b) Random inspections shall be conducted at least every 6 weeks if needed between scheduled inspections.
  - (c) Additional inspections may be scheduled if E&S control objectives are not being met.
  - (d) A written report will be generated following each inspection noting site conditions and any action required to maintain proper E&S controls during construction. The report will note whether or not the site is in compliance with the SWPCP and the CGP.
6. **Post-Construction Inspection:** Once construction is completed the District will conduct a post-construction site inspection with the permittee (or designee), designing qualified professional engineer and contractor to verify that all post-construction stormwater measures

are installed properly in accordance with the CGP and the SWPCP. The District will conduct at least one follow-up site visit after the post-construction site inspection. Additional inspections may be needed if the site is not stable and remedial action is needed. Reports and required actions will follow the same protocol as outlined in II.A.5.(d), above.

7. Final Stabilization Inspection: A final site inspection with the District, contractor, and designing qualified professional engineer will be conducted to ensure the site has been fully stabilized and all post-construction stormwater Best Management Practices (BMPs) are in place and functioning. The final stabilization inspection shall not take place prior to the completion of one (1) full growing season (April – October) following a successful post-construction inspection. The District will notify DEEP to confirm the site has achieved final stabilization. Subsequent to such notification, the permittee shall submit a Notice of Termination in accordance with the CGP.

#### B. Audits

The District agrees that all records pertaining to this Agreement shall be maintained for a period of not less than five (5) years. Such records shall be made available to the DEEP and to the state auditors upon request. For the purposes of this Agreement, “Records” are all working papers and such information and materials as may have been accumulated by the District in performing the Agreement, including, but not limited to, documents, data, analysis, plans, books, computations, drawings, specifications, notes, inspection reports and records, estimates, summaries and correspondence, kept or stored in any form.

#### IV. FEE SCHEDULE

- A. A District will assess fees for the services it renders in conjunction with its SWPCP technical assistance in accordance with the Fee Schedule provided in Exhibit 1 to this agreement. Fees will be calculated on an hourly basis and paid for by the permittee. A down payment will be required prior to the start of any assistance.
- B. The Fee Schedule shall be reviewed annually by the Parties. The Fee Schedule may be adjusted as warranted by mutual written agreement between the Districts and the Commissioner.

#### V. RESPONSIBILITIES OF DEEP

- A. DEEP is responsible for formal review of all locally exempt SWPCPs submitted as part of the CGP and will require performance assurance (in accordance with the CGP) or similar financial mechanisms of the permittee to ensure payments will be made to Districts for technical assistance work.
- B. In order to institute standard SWPCP review guidelines and procedures, DEEP shall coordinate with the Districts to prepare a SWPCP checklist. The standard review guidelines and procedures established shall be consistent with the requirements of the Construction General Permit, the 2002 CT Guidelines for Soil Erosion and Sediment Control (as amended), and the 2004 Stormwater Quality Manual (as amended). The Commissioner shall have final approval of the review guidelines and procedures.

- C. DEEP shall provide initial training regarding SWPCP requirements for District staff involved in SWPCP technical assistance. The frequency of subsequent training shall be determined by the Commissioner.
- D. DEEP shall retain final decision making authority regarding the determination that a construction site is in compliance or not with the SWPCP requirements of the Construction General Permit and shall oversee the permitting process for Construction General Permit coverage.
- E. DEEP shall oversee any subsequent compliance and/or enforcement matters related to a permittee's adherence to the requirements of the Construction General Permit.
- F. DEEP shall have the discretion to review any of the Districts' records pertaining to any aspect this Agreement.

## VI. POINTS OF CONTACT

The following shall be points of contact for this Agreement unless otherwise agreed to by all Parties. All notices, demands, requests, consents, approvals or other communications required or permitted to be given or which are given with respect to this Agreement (for the purpose of this section collectively called "Notices") shall be deemed to have been effected at such time as the notice is emailed, or placed in the U.S. mail, first class and postage pre-paid, return receipt requested, or placed with a recognized overnight express delivery service that provides for a return receipt. All such Notices shall be in writing and shall be addressed as follows:

DEEP  
Director Water Permitting & Enforcement Division  
Bureau of Material Management & Compliance Assurance  
Department of Energy & Environmental Protection  
79 Elm St.  
Hartford, CT 06106  
Phone: 860-424-3018  
Fax: 860-424-4074

Conservation District Executive Director and/or Board Chairperson  
Address & Phone of appropriate District:

Northwest Conservation District  
1185 New Litchfield Street  
Torrington, CT 06790  
Ph: 860-626-7222  
Fax: 860-626-7222  
Email: [info@nwcd.org](mailto:info@nwcd.org)

Eastern Connecticut Conservation District  
238 West Town Street  
Norwich, CT 06360-2111  
Ph: 860-319-8806  
Email: [Dan.Mullins@comcast.net](mailto:Dan.Mullins@comcast.net)

Connecticut River Coastal Conservation District, Inc.  
deKoven House Community Center  
27 Washington Street  
Middletown, CT 06457  
Ph: 860-346-3282  
Email: [ctrivercoastal@conservect.org](mailto:ctrivercoastal@conservect.org)

Southwest Conservation District  
51 Mill Pond Road  
Hamden, CT 06514  
Ph: 203-859-7014  
Email: [csullivan@conservect.org](mailto:csullivan@conservect.org)

North Central Conservation District  
24 Hyde Avenue  
Vernon, CT 06066  
Ph: 860-875-3881  
Email: [tollandc@snet.net](mailto:tollandc@snet.net)

## **General Conditions**

### **VII. EXECUTIVE ORDERS AND ANTI-DISCRIMINATION.**

Executive Orders. . This Contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the Contract as if they had been fully set forth in it. The Contract may also be subject to Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services and to Executive Order No. 49 of Governor Dannel P. Malloy, promulgated May 22, 2015, mandating disclosure of certain gifts to public employees and contributions to certain candidates for office. If Executive Order 14 and/or Executive Order 49 are applicable, they are deemed to be incorporated into and are made a part of the Contract as if they had been fully set forth in it. At the Contractor's request, the Client Agency or DAS shall provide a copy of these orders to the Contractor.

**VIII. AMENDMENTS.** Either the DEEP or the Districts may recommend revisions to this Agreement as circumstances may warrant; however, any revisions must be upon mutual agreement of DEEP and all five Conservation Districts. Unless otherwise stated in this Agreement, formal written amendment is required for changes to any of the terms and conditions specifically stated in the Agreement, any prior amendments to the Agreement, and any other Agreement revisions determined

material by the Department.

- IX. SEVERABILITY.** The provisions of this Agreement are severable. If any part of it is found unenforceable, all other provisions shall remain fully valid and enforceable, unless the unenforceable provision is an essential element of the bargain.
- X. SOVEREIGN IMMUNITY.** The Parties acknowledge and agree that nothing in the Agreement shall be construed as a modification, compromise or waiver by the State of Connecticut (“State”) of any rights or defenses of any immunities provided by federal law or the laws of the State of Connecticut to the State or any of the State’s, which they may have had, now have or shall have with respect to all matters arising out of the Agreement. To the extent that this section conflicts with any other section, this section shall govern.
- XI. FORUM AND CHOICE OF LAW.** The Agreement shall be deemed to have been made in the City of Hartford, State of Connecticut. Both Parties agree that it is fair and reasonable for the validity and construction of the Agreement to be, and it shall be, governed by the laws and court decisions of the State of Connecticut, without giving effect to its principles of conflicts of laws. To the extent that any immunities provided by federal law or the laws of the State of Connecticut do not bar an action against the State or the Districts, and to the extent that these courts are courts of competent jurisdiction, for the purpose of venue, the complaint shall be made returnable to the Judicial District of Hartford only or shall be brought in the United States District Court for the District of Connecticut only, and shall not be transferred to any other court, provided, however, that nothing here constitutes a waiver or compromise of the sovereign immunity of the State of Connecticut. The Districts waive any objection which they may now have or shall have to the laying of venue of any Claims in any forum and further irrevocably submits to such jurisdiction in any suit, action or proceeding.
- XII. TERMINATION.** Notwithstanding any provisions in this Agreement, DEEP, through a duly authorized employee, may terminate the Agreement whenever the Department makes a written determination that such Termination is in the best interests of the State. The Department shall notify the Districts in writing sent by certified mail, return receipt requested, which notice shall specify the effective date of Termination and the extent to which the Districts must complete its Performance under the Agreement prior to such date; or (b) The Districts may terminate the Agreement for good cause. The Districts shall notify DEEP by written notice at least one hundred eighty (180) days prior to the effective date of termination. In order for the Districts to terminate this Agreement, (1) there must be a consensus between all five Conservation Districts that each District shall be terminating this Agreement with the DEEP; (2) such proof of consensus shall be submitted to the DEEP in the form of a letter signed by the duly authorized agent for each District by certified mail, return receipt requested, at least one hundred eighty (180) days prior to the Districts’ intention to cancel or terminate. Upon the Termination of this Agreement by either Party, the Districts shall deliver to the Department copies of all Records no later than thirty (30) days after the Termination of the Agreement, or fifteen (15) days after the Non-terminating Party receives a written request from the Terminating Party for the Records. The Districts shall deliver those Records that exist in electronic, magnetic or other intangible form in a non-proprietary format, such as, but not limited to, PDF, ASCII or .TXT. Upon receipt of a written notice of Termination from the Department, the Districts shall cease operations as the Department directs in the notice, and take all actions that are necessary or appropriate, or that the Department may reasonably direct, for the protection, and preservation of records. Except for any work which the Department directs the Districts to Perform in the notice prior to the effective date of Termination, and except as otherwise provided in the notice, the

Districts shall terminate or conclude all existing subcontracts and purchase orders and shall not enter into any further subcontracts, purchase orders or commitments. Upon Termination of the Agreement, all rights and obligations shall be null and void, so that no Party shall have any further rights or obligations to any other Party, except with respect to the sections which survive Termination. All representations, warranties, agreements and rights of the Parties under the Agreement shall survive such Termination to the extent not otherwise limited in the Agreement and without each one of them having to be specifically mentioned in the Agreement. Termination of the Agreement pursuant to this section shall not be deemed to be a breach of Agreement by the Department.

**XIII. DURATION OF AGREEMENT.** This Agreement shall be effective on January 1, 2019 or on the date of the last signature below, whichever is later, and shall continue in force unless canceled or terminated by either party in accordance with paragraph X above.

**XIV. VOID AB INITIO.** Notwithstanding paragraphs X and XI, the Agreement shall be void ab initio if, in the Commissioner's sole discretion, the Construction General Permit is reissued, revoked or modified to eliminate the need for the Districts to review the SWPCP pursuant to such general permit's terms and conditions or if the Construction General Permit expires and is not reissued.

**XV. INTERPRETATION.** The Agreement contains numerous references to statutes and regulations. For purposes of interpretation, conflict resolution and otherwise, the content of those statutes and regulations shall govern over the content of the reference in the Agreement to those statutes and regulations.

**XVI. ENTIRETY OF AGREEMENT.** This Agreement is the entire agreement between the Parties with respect to its subject matter, and supersedes all prior agreements, proposals, offers, counteroffers and understandings of the Parties, whether written or oral. The Agreement has been entered into after full investigation, neither Party relying upon any statement or representation by the other unless such statement or representation is specifically embodied in the Agreement.

**XVII. PROTECTION OF STATE CONFIDENTIAL INFORMATION**

- A. The Districts or District Parties, at their own expense, have a duty to and shall protect from a Confidential Information Breach any and all Confidential Information which they come to possess or control, wherever and however stored or maintained, in a commercially reasonable manner in accordance with current industry standards.
- B. Each District or District Party shall develop, implement and maintain a comprehensive data-security program for the protection of Confidential Information. The safeguards contained in such program shall be consistent with and comply with the safeguards for protection of Confidential Information, and information of a similar character, as set forth in all applicable federal and state law and written policy of the Department or State concerning the confidentiality of Confidential Information. Such data-security program shall include, but not be limited to, the following:
  - 1. A security policy for employees related to the storage, access and transportation of data containing Confidential Information;

2. Reasonable restrictions on access to records containing Confidential Information, including access to any locked storage where such records are kept;
  3. A process for reviewing policies and security measures at least annually;
  4. Creating secure access controls to Confidential Information, including but not limited to passwords; and
  5. Encrypting of Confidential Information that is stored on laptops, portable devices or being transmitted electronically.
- C. The District and District Parties shall notify the Department and the Connecticut Office of the Attorney General as soon as practical, but no later than twenty-four (24) hours, after they become aware of or suspect that any Confidential Information which Parties have come to possess or control has been subject to a Confidential Information Breach. If a Confidential Information Breach has occurred, the District shall, within three (3) business days after the notification, present a credit monitoring and protection plan to the Commissioner of Administrative Services, the Department and the Connecticut Office of the Attorney General, for review and approval. Such credit monitoring or protection plan shall be made available by the District at its own cost and expense to all individuals affected by the Confidential Information Breach. Such credit monitoring or protection plan shall include, but is not limited to, reimbursement for the cost of placing and lifting one (1) security freeze per credit file pursuant to Connecticut General Statutes §36a-701a. Such credit monitoring or protection plans shall be approved by the State in accordance with this Section and shall cover a length of time commensurate with the circumstances of the Confidential Information Breach. The District's costs and expenses for the credit monitoring and protection plan shall not be recoverable from the Department, any State of Connecticut entity or any affected individuals.
- D. The District shall incorporate the requirements of this Section in all subAgreements requiring each District Party to safeguard Confidential Information in the same manner as provided for in this Section.
- E. Nothing in this Section shall supersede in any manner the District's and/ or the District Parties' obligations pursuant to HIPAA or the provisions of this Agreement concerning the obligations of the District as a Business Associate of the Department.

**XVIII. AMERICANS WITH DISABILITIES ACT.** The Districts shall be and remain in compliance with the Americans with Disabilities Act of 1990 ("Act"), to the extent applicable, during the term of the Agreement. The DEEP may cancel the Agreement if the District and District Parties fail to comply with the Act.

**XIX. ADA PUBLICATION STATEMENT.** The following statement shall be incorporated into all publications prepared under the terms of this Agreement:

"The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act (ADA). Please contact us at (860) 418-5910 or [deep.accommodations@ct.gov](mailto:deep.accommodations@ct.gov) if you: have a disability and need a communication aid or service;



have limited proficiency in English and may need information in another language; or if you wish to file an ADA or Title VI discrimination complaint.”

When advertising any public meetings conducted under the terms of this Agreement, the above publications language should be used as well as the following statement:

“Requests for accommodations must be made at least two weeks prior to the program date.”

All videos produced under the terms of this Agreement must be made available with closed captioning.

**XX. PUBLICATION OF MATERIALS.** The District must obtain written approval from the State of Connecticut prior to distribution or publication of any printed material prepared under the terms of this Agreement. Unless specifically authorized in writing by the State, on a case by case basis, the District shall have no right to use, and shall not use, the name of the State of Connecticut, its officials, agencies, or employees or the seal of the State of Connecticut or its agencies: (1) in any advertising, publicity, promotion; or (2) to express or to imply any endorsement of District’s products or services; or (3) to use the name of the State of Connecticut, its officials agencies, or employees or the seal of the State of Connecticut or its agencies in any other manner (whether or not similar to uses prohibited by (1) and (2) above), except only to manufacture and deliver in accordance with this Agreement such items as are hereby contracted for by the State. In no event may the Districts use the State Seal in any way without the express written consent of the Secretary of State.

**XXI. CHANGES IN PRINCIPAL PROJECT STAFF.** Any changes in the principal project staff must be requested in writing and approved in writing by the Commissioner at the Commissioner’s sole discretion. In the event of any unapproved change in principal project staff, the Commissioner may, in the Commissioner’s sole discretion, terminate this Agreement.

**XXII. FURTHER ASSURANCES.** The Parties shall provide such information, execute and deliver any instruments and documents and take such other actions as may be necessary or reasonably requested by the other Party which are not inconsistent with the provisions of this Agreement and which do not involve the vesting of rights or assumption of obligations other than those provided for in the Agreement, in order to give full effect to the Agreement and to carry out the intent of the Agreement.

**XXIII. ASSIGNMENT.** The Districts shall not assign any of their rights or obligations under the Agreement, voluntarily or otherwise, in any manner without the prior written consent of the Department. The Department may void any purported assignment in violation of this section and declare the District in breach of this Agreement. Any termination by the Department for a breach is without prejudice to the Agency’s or the State’s rights or possible Claims.

**XXIV. EXHIBITS.** All exhibits referred to in, and attached to, this Agreement are incorporated in this Agreement by such reference and shall be deemed to be a part of it as if they had been fully set forth in it.

**XXV. FORCE MAJEUR.** Events that materially affect the cost of the Goods or Services or the time schedule within which to Perform and are outside the control of the party asserting that such an event has occurred, including, but not limited to, labor troubles unrelated to District(s), failure of or inadequate permanent power, unavoidable casualties, fire not caused by a District, extraordinary

weather conditions, disasters, riots, acts of God, insurrection or war.

**XXVI. INDEMNIFICATION.** The Districts shall indemnify, defend and hold harmless the State and its officers, representatives, agents, servants, employees, successors and assigns from and against any and all (1) Claims arising, directly or indirectly, in connection with the Agreement, including the acts of commission or omission (collectively, the "Acts") of the District or District Parties; and (2) liabilities, damages, losses, costs and expenses, including but not limited to, attorneys' and other professionals' fees, arising, directly or indirectly, in connection with Claims, Acts or the Agreement. The Districts obligations under this section to indemnify, defend and hold harmless against Claims includes Claims concerning confidentiality of any part of or all of the Districts' Records, any intellectual property rights, other proprietary rights of any person or entity, copyrighted or uncopyrighted compositions, secret processes, patented or unpatented inventions, articles or appliances furnished or used in the Performance. The Districts shall not be responsible for indemnifying or holding the State harmless from any liability arising due to the gross negligence of the State or any other person or entity acting under the direct control or supervision of the State. The Districts shall reimburse the State for any and all damages to the real or personal property of the State caused by the Acts of the Districts or any District Parties. The State shall give the Districts reasonable notice of any such Claims. The Districts shall carry and maintain at all times during the term of the Agreement, and during the time that any provisions survive the term of the Agreement, sufficient general liability insurance to satisfy its obligations under this Agreement. The Districts shall name the State as an additional insured on the policy and shall provide a copy of the policy to the Department prior to the effective date of the Agreement. The Districts shall not begin Performance until the delivery of the policy to the Department. The Department shall be entitled to recover under the insurance policy even if a body of competent jurisdiction determines that the Department or the State is contributorily negligent. This section shall survive the Termination of the Agreement and shall not be limited by reason of any insurance coverage.

**XXVII. DISTRICT PARTIES.** A District's members, directors, officers, shareholders, partners, managers, principal officers, representatives, agents, servants, consultants, employees or any one of them or any other person or entity with whom the District is in privity of oral or written contract and the District intends for such other person or entity to Perform under the Agreement in any capacity



## Exhibit 1

### **Fee Schedule effective as of January 1, 2019**

The Districts will be paid \$120/hour for technical assistance work performed. Interim inspections must be estimated based on phasing and complexity of site.

Down payments:

\$2,500 for sites  $\leq$  20 acres

\$4,000 for sites  $>$  20 acres

## **Exhibit 2**

### **Conservation Districts of Connecticut Regional Delineations and Contact Information**

Northwest Conservation District  
1185 New Litchfield Street  
Torrington, CT 06790  
Ph: 860-626-7222  
Fax: 860-626-7222  
Email: info@nwcd.org

Eastern Connecticut Conservation District  
238 West Town Street  
Norwich, CT 06360-2111  
Ph: 860-319-8806  
Email: Dan.Mullins@comcast.net

Connecticut River Coastal Conservation District, Inc.  
deKoven House Community Center  
27 Washington Street  
Middletown, CT 06457  
Ph: 860-346-3282  
Email: ctrivercoastal@conservect.org

Southwest Conservation District  
51 Mill Pond Road  
Hamden, CT 06514  
Ph: 203-859-7014  
Email: csullivan@conservect.org

North Central Conservation District  
24 Hyde Avenue  
Vernon, CT 06066  
Ph: 860-875-3881  
Email: tollandc@snet.net

<b>NORTHWEST</b>	<b>SOUTHWEST</b>	<b>NORTH CENTRAL</b>	<b>CT RIVER COASTAL</b>	<b>EASTERN</b>
Barkhamsted	Ansonia	Avon	Berlin	Andover
Bethel	Beacon Falls	Bloomfield	Chester	Ashford
Bethlehem	Bethany	Bolton	Clinton	Bozrah
Bridgewater	Branford	Bristol	Colchester	Brooklyn
Brookfield	Bridgeport	Burlington	Cromwell	Canterbury
Canaan	Cheshire	Canton	Deep River	Chaplin
Colebrook	Darien	Coventry	Durham	Columbia
Cornwall	Derby	East Granby	East Haddam	Eastford
Danbury	East Haven	East Hartford	East Hampton	East Lyme
Goshen	Easton	East Windsor	Essex	Franklin
Hartland	Fairfield	Ellington	Haddam	Griswold
Harwinton	Greenwich	Enfield	Hebron	Groton
Kent	Guilford	Farmington	Killingworth	Hampton
Litchfield	Hamden	Glastonbury	Lyme	Killingly
Morris	Meriden	Granby	Madison	Lebanon
New Fairfield	Middlebury	Hartford	Marlborough	Ledyard
New Hartford	Milford	Manchester	Middlefield	Lisbon
New Milford	Monroe	Plainville	Middletown	Mansfield
Newtown	Naugatuck	Simsbury	Newington	Montville
Norfolk	New Canaan	Somers	New Britain	New
North Canaan	New Haven	South Windsor	Old Lyme	London
Plymouth	North Branford	Stafford	Old Saybrook	North
Roxbury	North Haven	Suffield	Portland	Stonington
Salisbury	Norwalk	Tolland	Rocky Hill	Norwich
Sharon	Orange	Vernon	Salem	Plainfield
Sherman	Oxford	West Hartford	Westbrook	Pomfret
Southbury	Prospect	Wethersfield		Preston
Thomaston	Redding	Willington		Putnam
Torrington	Ridgefield	Windsor		Scotland
Warren	Seymour	Windsor Locks		Sprague
Washington	Shelton			Sterling
Watertown	Southington			Stonington
Winchester	Stamford			Thompson
Woodbury	Stratford			Union
	Trumbull			Voluntown
	Wallingford			Waterford
	Waterbury			Windham
	West Haven			Woodstock
	Weston			
	Westport			
	Wilton			
	Wolcott			
	Woodbridge			

## APPENDIX G

### Historic Preservation Review

Chapter 184a, Section 10-387 of the Connecticut General Statutes states that DEEP shall review, in consultation with the State Historic Preservation Office (SHPO) within the Department of Economic and Community Development, its policies and practices for consistency with the preservation and study of the state's archaeological and historical sites. Pursuant to this requirement, DEEP has outlined the following process for assessing the potential for a proposed development to impact these important resources. DEEP advises a review for resources identified below to *be initiated up to one year* prior to registration for this permit and in conjunction with the local project approval process.

#### Question 1

Will the proposed project will be authorized under an Army Corps of Engineers Section 404 wetland permit?

- Yes – Stop here – the Section 404 permit will satisfy all requirements for Appendix G  
 No – Please answer the following questions

#### Question 2

Is the project site within an area of significance?

- Yes  No  Do Not Know or Unable to Determine

This can be determined by consulting the following resources:

1. National Register of Historic Places found at the link below:  
<https://www.nps.gov/maps/full.html?mapId=7ad17cc9-b808-4ff8-a2f9-a99909164466>
2. The municipality of the proposed development site for locally designated properties (including local historic districts) and any municipal ordinance pertaining to properties over 50 years old.

#### Question 3

Does the area of anticipated construction or ground disturbance include soils defined by the United States Department of Agriculture as "Loam, Sandy Loam, or Loamy Sand" that also may be Fine or Gravelly with slopes less than or equal to 15% (Soil mapping information is available at: <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>)?

- Yes  No  Do Not Know or Unable to Determine

#### Question 4

Are there buildings or structures over 50 years in age within the project site or evidence of prior human land use (i.e., buildings foundations, wells, stone walls, or other built stone features)?

- Yes  No  Do Not Know or Unable to Determine

### How to Proceed

If you answered "Yes" or "Do Not Know or Unable to Determine" to any or all of Questions 2, 3, or 4 above; please contact Catherine Labadia at SHPO for additional guidance (email: [catherine.labadia@ct.gov](mailto:catherine.labadia@ct.gov) or direct phone: 860-500-2329).

If you answered "No" to each one of Questions 2, 3, or 4 above; report in the Registration Form for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities that a self-review has been conducted and report the results provided above.

## Appendix H Wild & Scenic Rivers Guidance

### Overview: Wild and Scenic Rivers Act

The Wild and Scenic Rivers Act (WSRA) charges administration of rivers in the National Wild and Scenic Rivers System (National System) to four federal land management agencies (Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, and U.S. Forest Service). However, to protect and enhance river values as directed in the WSRA, it is essential to use the authorities of a number of other federal agencies in administering the water column, river bed/bank, and upland river corridor.

Congress declared a policy to protect selected rivers in the nation through the WSRA. The river-administering agencies are to protect the river’s identified values, free-flowing condition, and associated water quality. Specifically, each component is to be “administered in such manner as to protect and enhance the (outstandingly remarkable) values (**ORVs**) which caused it to be included in said system. . . .”

The WSRA also directs other federal agencies to protect river values. It explicitly recognizes the Federal Energy Regulatory Commission, Environmental Protection Agency, Army Corps of Engineers and any other federal department or agency with lands on or adjacent to designated (or congressionally authorized study) rivers or that permit or assist in the construction of water resources projects.

### Pertinent Sections of the Wild and Scenic Rivers Act

The full Wild and Scenic Rivers Act can be found at the website: [www.rivers.gov](http://www.rivers.gov)

Pertinent Sections related to the mandate to protect river values through coordinated federal actions is found in several sections of the WSRA:

Section 1(b)	Section 7(a)	Section 10(a)
Section 12(a)	Section 12(c)	

### Designated Rivers under the Wild and Scenic Rivers Act and Contact Information

The full listing of designated rivers can be found on the website [www.rivers.gov](http://www.rivers.gov)

As of the date of this publication, there are two designated rivers in Connecticut, both of which are managed under the Partnership Wild and Scenic Rivers Program, through a Coordinating Committee consisting of representatives from local communities and organizations, state government and the National Park Service. More information about these rivers, their watersheds, approved management plans, the Wild and Scenic Coordinating Committees and specific contact information can be found on the websites.

1. Farmington (West Branch) River: [farmingtonriver.org](http://farmingtonriver.org)
2. Farmington (Lower) & Salmon Brook: [lowerfarmingtonriver.org](http://lowerfarmingtonriver.org)
3. Eightmile River: [eightmileriver.org](http://eightmileriver.org)
4. Wood & Pawcatuck Rivers: [wpwildrivers.org](http://wpwildrivers.org)



**APPENDIX I**  
**Stormwater Management at**  
**Solar Array Construction Projects**

Solar development has expanded over the last several years as Connecticut and other states have invested in this important resource to further greenhouse gas emission reductions and other renewable policy objectives. However, construction of a large-scale solar array is unlike most other construction activities regulated under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (“general permit”) and entails challenges not encountered in traditional development projects. If not properly managed, stormwater discharged during and after the construction of solar arrays can be a significant source of pollution resulting from increased runoff, erosion, and sedimentation, which can adversely impact wetlands or other natural resources. It is vitally important to stabilize soil, minimize soil disturbance and soil compaction, and manage the total runoff volume and velocity. Proper stormwater management practices can significantly mitigate the loss of topsoil, erosion and sediment discharges from disturbed areas and stormwater outlets, and erosion along downstream channels and streambanks. The opportunities to properly manage runoff decrease as site imperviousness increases.

Therefore, in addition to the terms and conditions of the general permit, registrations for construction of a Solar Array (as that term is defined in Section 2 of the general permit) shall, at a minimum, adhere to the conditions listed below. Depending on site-specific conditions for a particular solar array construction project, additional analyses may be required.

**(I) Design and construction requirements**

- (1) Roadways, gravel surfaces and transformer pads within the solar array are considered effective impervious cover for the purposes of calculating Water Quality Volume (WQV). In addition to these impervious surfaces, all solar panels in the array shall also be considered effective impervious cover for the purposes of calculating Water Quality Volume if the proposed post-construction slopes at a site are equal to or greater than 15% or if the post-construction slopes at a site are less than 15% and the conditions in (a) – (d), inclusive, below have not been met:
  - (a) The vegetated area receiving runoff between rows of solar panels (see Figures 1 and 2, below) is equal to or greater than the average width of the row of solar panels draining to the vegetated area;
  - (b) Overall site conditions and solar panel configuration within the array are designed and constructed such that stormwater runoff remains as sheet flow across the entire site and flows towards the intended stormwater management controls;
  - (c) The following conditions are satisfied regarding the design of the post-construction slope of the site:
    - (i) For slopes less than or equal to 5%, appropriate vegetation shall be established that will ensure sheet flow conditions and that will provide sufficient ground cover throughout the site; and
    - (ii) For slopes greater than 5%, but less than 10%, practices including, but not limited to, level spreaders, terraces or berms as described in Figure 2, below, shall be used to ensure long term sheet flow conditions; and
    - (iii) For slopes greater than or equal to 8%, erosion control blankets or stump grindings or erosion control mix mulch or hydroseed with tackifier shall be applied within 72 hours of final grading, or when a rainfall of 0.5 inches or greater is predicted within 24 hours of final grading, whichever time period is less; and
    - (iv) For slopes equal to or greater than 10% and less than 15%, the Plan includes specific engineered stormwater control measures with detailed specifications that are designed to provide permanent stabilization and non-erosive conveyance of runoff to the property line of the site or downgradient from the site.
  - (d) The solar panels shall be designed and constructed in such a manner as to allow the growth of native

vegetation beneath and between the panels. Pollinator-friendly vegetation is strongly encouraged. With respect to such vegetation, the Permittee shall not use chemical fertilization, herbicides, or pesticides except as necessary to establish such vegetation.

- (2) (a) Prior to commencing construction activities, the Permittee shall ensure that the following setback and buffer shall be delineated and maintained on the site:
- (i) No solar panel associated with a solar array shall be located within one-hundred (100) feet of any wetland or waters (“the 100-foot setback”) that, prior to or after construction, is located downgradient of such construction activity or within fifty (50) feet of any property boundary (“the 50-foot setback”) that, prior to or after construction, is located downgradient of such construction activity; and
  - (ii) Except as provided in section 2(a)(iii), there shall be an undisturbed buffer of at least fifty (50) feet between any construction activity at a site and any wetland or waters that, prior to or after construction, is located downgradient of such construction activity (“the 50-foot buffer”). Such buffer shall be comprised of existing dense herbaceous vegetative ground cover (e.g. not forested area). If the entirety of such buffer is not comprised of existing dense herbaceous vegetative ground cover, such buffer shall be at least one-hundred (100) feet (“the 100-foot buffer”).
  - (iii) There shall be an undisturbed buffer of at least ten (10) feet between any construction activity at a site associated with an access road or the electrical interconnection necessary for the solar array and any wetland or waters that, prior to or after construction, is located downgradient of such construction activity (“10-foot buffer”), except if the access road or electrical interconnection passes between two wetland or waters and the undisturbed buffer cannot be achieved. Any crossing through a wetland or waters for an access road or electrical interconnection is exempt from such buffer requirement.
- (b) Notwithstanding section 2(a)(ii), the 50-foot buffer or 100-foot buffer, as applicable, may be reduced, only where necessary, but by no more than fifty percent (50%), only if all of the following have been demonstrated to the satisfaction of the commissioner by approval of a Registration:
- (i) Stormwater control measures for managing stormwater discharges that will enter or be received by a wetland or waters shall be designed and installed in accordance with the following conditions:
    - (A) a minimum sediment load reduction of ninety percent (90%) shall be achieved before such discharges enter or are received by a wetland or waters. The required sediment load reduction shall be calculated based solely on the stormwater controls used; no sediment load reduction from conditions on the site (i.e., from any remaining buffer) shall be considered when calculating the sediment load reduction from such stormwater controls. The sediment load reduction may be calculated using a range of available models that are available to facilitate this calculation, including USDA’s RUSLE-series programs and the WEPP erosion model, SEDCAD, SEDIMOT, or other equivalent independent third party model or method acceptable to the commissioner;
    - (B) those portions of a solar array from which stormwater discharges enter or will be received by a wetland or waters shall be deemed effective impervious cover for the purposes of calculating Stream Channel Protection in accordance with Section 7.6.1 of the Stormwater Quality Manual, even if those portions of such array are less than one (1) acre; and
    - (C) the buffer into which stormwater discharges shall have a slope of less than or equal to fifteen percent (15%)
  - (c) A soil scientist, as that term is defined in Section 2 of the general permit, shall delineate all wetland or waters by field survey. The location of all wetland or waters and all required setbacks and buffers shall be shown on all mapping and prior to the start of construction be clearly marked on the site with flags, stakes, tape, or a similar marking device by a surveyor licensed in Connecticut.

- (d) Delineation of the 100-foot setback and any buffer required under this section shall be measured perpendicularly and laterally from the nearest part of the solar array or construction activity, as applicable, to:
    - (i) in the case of waters, the ordinary high water mark of the water body, defined as the line on the shore established by fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, and/or the presence of litter and debris;
    - (ii) the nearest edge of the stream or river bank, bluff, or cliff, as applicable; and
    - (iii) the nearest edge of any wetland, as determined by a soil scientist.
  - (e) The Plan shall indicate how compliance with this section will be achieved.
  - (f) Prior to the approval of a registration, the commissioner may determine that the 100 foot-setback or any buffer required under this section is not adequate to protect water quality or natural resources (i.e., a vernal pool, cold-water perennial streams, perennial headwater seeps or similar sensitive wetland or waters, or other sensitive habitat). In such a case, the commissioner may reject or disapprove the registration, or may impose additional terms and conditions in the approval of such registration, including, but not limited to, an additional setback, buffer or other control measure.
  - (g) Nothing in this section is intended to or shall prevent improvements, as may be directed by the commissioner in the approval of a registration, to enhance the water quality benefits or the natural resource value of any buffer required under this section.
  - (h) The terms “wetland”, “wetlands”, and “waters” shall be as defined in Section 2 of the general permit. In addition, the term “access road” shall mean a road used for the sole purpose of gaining access to the site from a public road or right-of-way or a road used solely to provide access between separate internal areas of fenced solar arrays. Access road shall *not* include any other road, including, but not limited to, a road around the perimeter of a solar array or a road used to service solar arrays.
- (3) The lowest vertical clearance of the solar panels above the ground should not be greater than ten (10) feet. The panels shall, however, be at an adequate height to support vegetative growth and maintenance beneath and between the panels. If the lowest vertical clearance of the solar panels above the ground is greater than ten (10) feet, non-vegetative control measures will be required to prevent/control erosion and scour along the drip line or otherwise provide energy dissipation from water running off the panels. This section does not apply to solar carports that are installed over asphalt pavement.
- (4) In addition to the pre-construction meeting required by Section 3(b)(15) of the general permit, prior to each phase of any construction activity, the Permittee shall ensure that a preconstruction meeting takes place with the designing qualified professional, qualified inspector, and all site contractors and subcontractors to be involved in construction, and the appropriate District personnel. Such meeting shall include a site walk of the project site. The Permittee shall ensure that a record of the date of such meeting and a report summarizing the meeting shall be prepared and retained in the Permittee’s Plan, with a copy sent to all parties who attended the preconstruction meeting.
- (5) (a) The Permittee shall retain the designing qualified professional and a qualified inspector (as those terms are defined in Section (2)) to conduct the Plan Implementation and Routine inspections pursuant to Section 5(b)(4), provided that any qualified inspector shall be chosen by the designing qualified professional. Unless otherwise approved in writing by the Commissioner, such designing qualified professional and qualified inspector shall be retained for the duration of the construction project until the Notice of Termination has been submitted to the Commissioner and determined to be acceptable, as described below in paragraph (8) below.
- (b) Plan Implementation Inspections: Notwithstanding the schedule of inspections set forth in Section 5(b)(4) of the general permit, the Permittee shall ensure that the designing qualified professional and the qualified

inspector chosen by such designing qualified professional conduct Plan Implementation Inspections beginning with the commencement of construction activities and through each phase of construction until all perimeter controls, initial erosion and sediment control measures, and construction stormwater traps, basins, swales, and other control measures associated with each phase have been installed and stabilized. In addition, once all of these measures have been installed and stabilized, the Permittee shall ensure that the designing qualified professional certifies in writing to their completion in the applicable inspection report in accordance with the Plan. The Permittee shall ensure that the designing qualified professional conducts a Plan Implementation Inspection of the site at least once a month and the qualified inspector chosen by such designing qualified professional conducts such inspection at least once a week. (The qualified inspector does not need to conduct a weekly inspection during the week the qualified designing professional conducts a monthly inspection).

- (c) Routine Inspections: Following the completion of the Plan Implementation Inspections (i.e., after the designing qualified professional has certified that stormwater control measures have been installed and stabilized) and notwithstanding the requirements of Section 5(b)(4)(B) of the general permit, either the designing qualified professional or the qualified inspector shall conduct weekly Routine Inspections pursuant to Section 5(b)(4)(B) of the general permit, provided that the designing qualified professional shall inspect the site at least once a month, or more frequently if necessary, to confirm that the site is in compliance with the general permit and determine if it is necessary to install, modify, maintain, or repair such controls and/or measures to improve the quality of stormwater discharges.
  - (d) In addition to any requirements of Section 5(b)(4)(B) of the general permit, the designing qualified professional shall seal and certify to the truth and accuracy of each inspection undertaken pursuant to this section regardless of whether the inspection is performed by such designing qualified professional or the qualified inspector. On or before five (5) days after the completion of each inspection, the Permittee shall ensure that certified inspection reports of all inspections undertaken pursuant to this section are provided by the designing qualified professional directly to the Permittee and shall ensure that a copy of the certified inspection report of each such inspection is provided to the appropriate District personnel and submitted electronically to the Department via email at [DEEP.stormwaterstaff@ct.gov](mailto:DEEP.stormwaterstaff@ct.gov).
  - (e) Unless otherwise provided for in this section, the Permittee shall comply with section 5(b)(4) of the general permit, including, but not limited to, taking action if an inspection indicates that the site is not in compliance with the terms and conditions of the Plan or the general permit.
  - (f) The Permittee shall also ensure that the proposed inspection checklist prepared by the designing qualified professional is submitted for the review and approval of the Commissioner and is included with the registration for the general permit. No other professionals may serve as the designing qualified professional or qualified inspector without the prior submittal of relevant credentials and inspection checklist for the Commissioner's review and written approval.
- (6) In addition to the requirements of this general permit regarding inspection checklists, the Permittee shall ensure that a copy of all such checklists are submitted electronically to the Department email ([DEEP.stormwaterstaff@ct.gov](mailto:DEEP.stormwaterstaff@ct.gov)) and the appropriate District within five (5) days from the date an inspection of the site was performed.
- (7) The Permittee shall ensure, after completion of a construction project, that a Notice of Termination is filed in compliance with Section 6 of this general permit, including the requirement that such Notice of Termination be signed by a District representative certifying that such District representative has personally conducted a Post-Construction Inspection and Final Stabilization Inspection in accordance with Section 6(a) of this general permit and verified compliance with the requirements of that section. The Notice of Termination shall not be submitted until two (2) full growing seasons have passed following final stabilization. Monthly post-construction inspections shall be conducted by the qualified inspector following final stabilization until the Notice of Termination is submitted.
- (8) (a) Prior to undertaking any construction activity, the Permittee shall secure and maintain a letter of credit in

accordance with the requirements of this section.

- (b) For sites with a total disturbance of twenty (20) acres or more, the amount of the Letter of Credit shall be \$15,000.00 per acre of disturbance. For sites with a total disturbance of less than twenty (20) acres, the amount of the Letter of Credit shall be \$7,500.00 per acre of disturbance. Should a project developer locate more than one project with a total disturbance of less than twenty (20) acres in the same vicinity, for purposes of this section, the Commissioner reserves the right to combine such projects and consider them as being a site with a total disturbance of twenty (20) acres or more.
- (c) The wording of such letter of credit must be identical to the wording specified in Appendix J of the general permit. The Permittee shall maintain such letter of credit in effect until the Commissioner notifies the permittee that the Notice of Termination, filed in compliance with Section 6 of the general permit has been accepted by the Commissioner.
- (d) At the option of the Permittee, the amount of the letter of credit required under section 8(b) of Appendix I may be reduced:
  - (i) By forty (40) percent of the amount of the original letter of credit, only upon a determination by the Commissioner or, after designation of a District by the Commissioner, a representative from such District, that all perimeter controls, initial erosion and sediment control measures, and construction stormwater traps, basins, swales, and other control measures have been installed, functioning and stabilized in accordance with the general permit and the Plan;
  - (ii) By forty (40) percent of the amount of the original letter of credit, only upon a determination by the Commissioner or, after designation of a District by the Commissioner, a representative from such District, that all post-construction stormwater management measures specified in the SWPCP have been installed, functioning and stabilized in accordance with the general permit and the Plan; and
  - (iii) Upon the Commissioner's acceptance of the Notice of Termination filed in compliance with Section 6 of the general permit, the letter of credit may be terminated.
- (e) The process for reducing the amount of the letter of credit in accordance with section 8(d) of Appendix I shall be as follows: the Permittee shall first submit a new letter of credit identical in all respects to the letter of credit in Appendix J, except for the reduced amount. Once the new letter of credit is received and the Commissioner determines that it is satisfactory, the Commissioner shall follow any reasonable instructions from the issuing bank regarding the termination or return of the previous letter of credit.

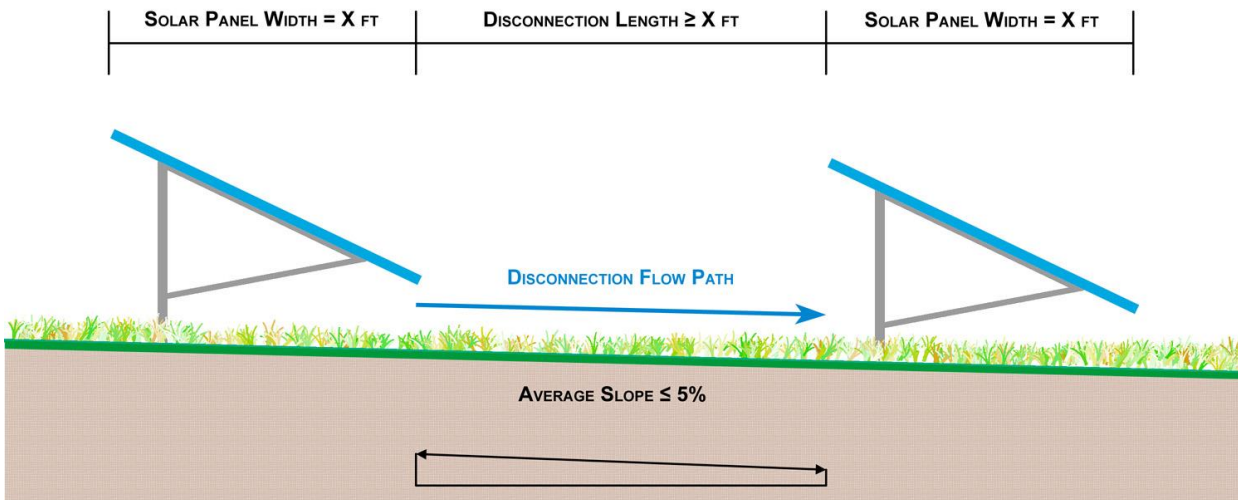
## **II. Design requirements for post-construction stormwater management measures.**

- (1) Post-construction stormwater control measures shall be designed and constructed to provide permanent stabilization and non-erosive conveyance of runoff on the site, to the property line of the site or downgradient from the site to ensure protection of on- and off-site wetland, wetlands, and waters (as those terms are defined in Section 2 of the general permit) or other natural resources.
- (2) Orientation of panels shall be considered with respect to drainage pattern, flow concentration, drainage area and velocity.
- (3) The permittee shall conduct a hydrologic analysis that:
  - (a) Evaluates and controls the 2, 25, 50 and 100-year 24-hour rainfall event post-development peak discharge to the corresponding pre-development peak discharge rates in accordance with the Stormwater Quality Manual, with the following exceptions: that sheet flow is maintained for a maximum length of 100 feet; shallow concentrated flow is calculated using velocity factors per NRCS Part 630 National Engineering Handbook Chapter 15 (the use of TR-55 paved or unpaved velocity factors are not acceptable); if swales are used to convey or control stormwater, such swales shall convey and control stormwater from a 100-year, 24-hour

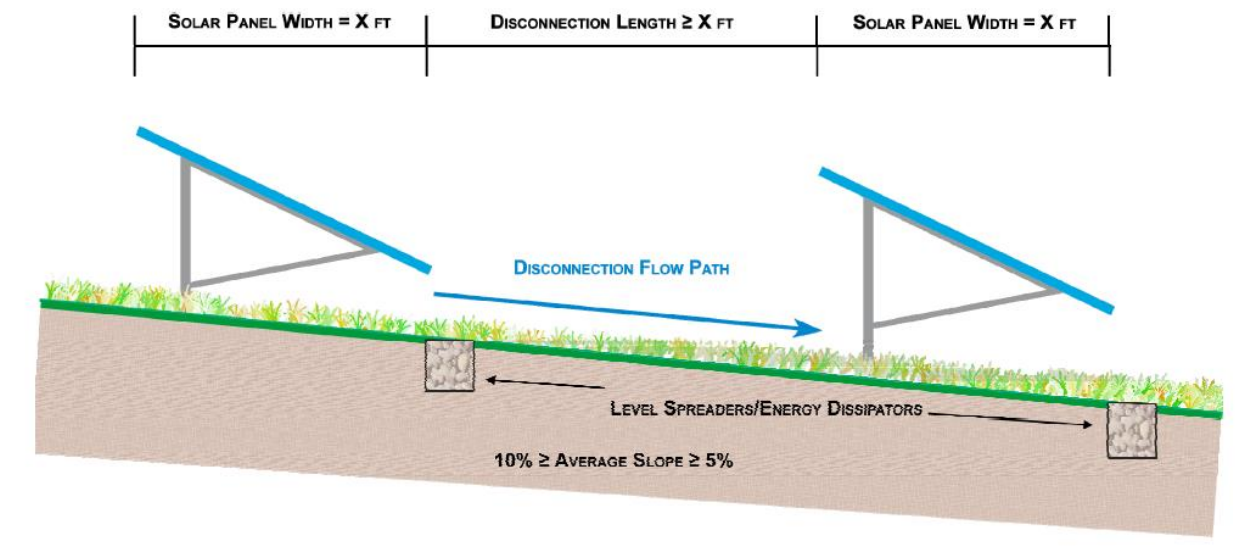
rainfall event; and

- (b) Is based on site specific soil mapping to confirm soil types; and
- (c) Is able to determine and confirm the infiltrative capacity of any stormwater management measures . In addition, in areas where grading exceeds a two (2) foot difference between existing and proposed grades, the runoff curve number shall increase by one full HSG (e.g. runoff curve number for soils of HSG B shall be considered HSB C). For the remainder of the entire site, the runoff curve number associated with the Hydrologic Soil Group present on-site shall increase by one half (1/2) the difference between the Hydrologic Soil Group present on-site and the next higher Hydrologic Soil Group (e.g. half the difference between the runoff curve number for HSG B versus HSG C) to account for the compaction of soils that results from extensive machinery traffic over the course of the construction of the array; and
- (d) Is based on slope gradient, surveyed soil type (adjusted per subparagraph (c), above), infiltration rate, length of slope, occurrence of bedrock, and change in drainage patterns. Pre- and post-development drainage area maps shall be provided showing this information; and
- (e) For an engineered stormwater management system, demonstrates no net increase in peak flows, erosive velocities or volumes, or adverse impacts to downstream properties in accordance with the general permit and the Stormwater Quality Manual.

**Figure 1**  
**Solar Panel Installation with Slopes  $\leq 5\%$**



**Figure 2**  
**Solar Panel Installation with Slopes  $> 5\%$  and  $\leq 10\%$**



Source: Maryland Department of the Environment: Stormwater Design Guidance – Solar Panel Installations

**APPENDIX J**  
**CTDEEP Financial Assurance Irrevocable Letter of Credit**

[NAME OF ISSUING BANK]

IRREVOCABLE STANDBY LETTER OF CREDIT NUMBER: [XXXX]

ISSUANCE DATE: [MONTH, DATE, YEAR]

TOTAL AMOUNT: U.S. \$[X,XXX.00]

BENEFICIARY: Commissioner, Connecticut Department of Energy and  
Environmental Protection

APPLICANT: [APPLICANT NAME AND ADDRESS]

Commissioner  
Connecticut Department of Energy and Environmental Protection  
79 Elm Street  
Hartford, CT 06106-5127

Dear Sir or Madam:

We hereby establish our Irrevocable Standby Letter of Credit No. [XXXX] in your favor, at the request and for the account of the Applicant, [APPLICANT NAME AND ADDRESS], up to the aggregate total amount of [XXX] U.S. Dollars (\$[X,XXX].00). We hereby authorize the Commissioner of the Connecticut Department of Energy and Environmental Protection (“Commissioner”) to draw at sight on us, [NAME AND ADDRESS OF ISSUING BANK], an aggregate amount up to the total amount, available upon presentation of:

- (1) your sight draft, bearing reference to this Letter of Credit No. [XXXX], and
- (2) your signed, dated statement reading as follows: “I certify that the amount of the draft is payable because I have determined one or more of the following has occurred or is occurring:
  - (a) one or more violations of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities issued by the Commissioner and which is currently in effect, or one or more violations of any other requirement or approval applicable to the management of stormwater at or emanating from [ADDRESS OF SITE] (“the Property”), or
  - (b) stormwater at or emanating from the Property is or has become a potential source of pollution (as that term is defined in Conn. Gen. Stat. § 22a-423) which has not been



remedied to my satisfaction within five (5) business days of the Applicant's receipt of a written notice from me that a pollution condition exists, or

(c) the Applicant, or any other entity in which the Applicant has a controlling interest, no longer owns, leases, or can control the use of the Property, or no longer owns, operates, or has a controlling interest in the solar array facility located at the Property, or

(d) the issuing bank has notified me that it has decided not to extend this letter of credit beyond the current expiration date."

This letter of credit is effective as of [MONTH, DATE, YEAR] and shall expire on [MONTH, DATE, YEAR AT LEAST ONE YEAR LATER], but such expiration date shall be automatically extended for a period of one year and on each successive expiration date, unless, at least 120 days before the current expiration date, we notify both you and Applicant, [APPLICANT NAME], by certified mail or nationally recognized courier service that we have decided not to extend this letter of credit beyond the current expiration date. In the event you are so notified, any unused portion of this letter of credit shall be available upon presentation of your sight draft for 120 days after the date of receipt by you, as shown on the signed return receipts or evidence of courier delivery.

Multiple and partial draws on this letter of credit are expressly permitted, up to an aggregate amount not to exceed the total amount. Whenever this letter of credit is drawn on under and in compliance with the terms of this letter of credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into a Connecticut Department of Energy and Environmental Protection dedicated account in accordance with your instructions.

All banking and other charges under this letter of credit are for the account of the Applicant.


This letter of credit is issued subject to the edition of the Uniform Customs and Practice for Documentary Credits, published and copyrighted by the International Chamber of Commerce, in effect on the date this Letter of Credit is issued.

By signing, the signatory below certifies, under penalty of law, that the issuing institution is an entity which has the authority to issue letters of credit and whose letter of credit operations are regulated and examined by a Federal or State agency.

\_\_\_\_\_  
[SIGNATURE(S) OF OFFICIAL(S) OF ISSUING INSTITUTION]

\_\_\_\_\_  
[TITLE(S) OF OFFICIAL(S) OF ISSUING INSTITUTION]

Date: [MONTH, DATE, YEAR]



Appendix B  
ASP Compost Permit Drawing Set



# SITE PLAN

## LOT 132 BLOCK 12

### TOWN OF PRESTON, NEW LONDON COUNTY, CONNECTICUT

### ASP COMPOST FACILITY

### NOVEMBER 2023

PREPARED BY:  
SCS ENGINEERS  
4 EXECUTIVE BLVD, SUITE 303  
SUFFERN, NY  
(845) 357-1510

PREPARED FOR (OWNER):  
SOUTHEAST CONNECTICUT REGIONAL  
RESOURCES RECOVERY AUTHORITY  
7 HURLBUTT ROAD  
GALES FERRY, CT 06335

PROJECT ADDRESS:  
132 ROUTE 12  
PRESTON, CONNECTICUT 06365

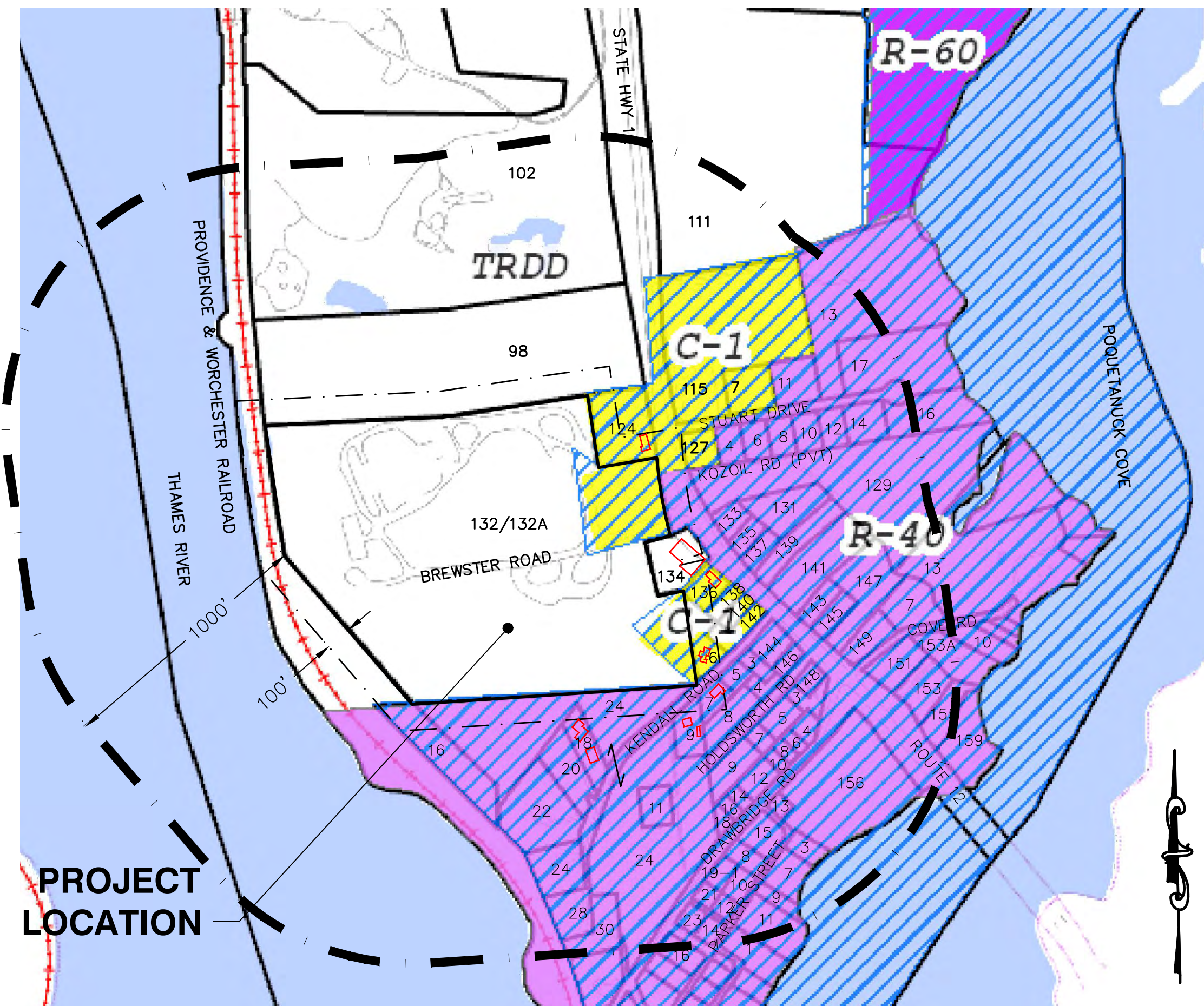
TRDD ZONING TABLE-LOT 132		
	REQUIRED	PROVIDED
LOT AREA (SQARE FT)	N/A	1,466,519 SF
LOT FRONTAGE/WIDTH (FT)	N/A	1,150'
FRONT YARD SETBACK (FT)	N/A	260'+
SIDE YARD SETBACK (FT)	N/A	176'+
REAR YARD SETBACK (FT)	N/A	204'+
BUILDING HEIGHT (FT)/ STORIES	N/A	30'/ 1-STORY
LOT COVERAGE (%)	N/A	27.50%

**NOTE:**  
1. LOT COVERAGE IS CALCULATED BY ADDING THE PROPOSED IMPERVIOUS AREA OF 118,000 SF TO THE EXISTING IMPERVIOUS AREA OF 286,000 SF AND DIVIDING BY THE TOTAL LOT AREA OF 1,466,519 SF.

**PERMIT SET 11/28/23  
NOT FOR CONSTRUCTION**

**ZONING LEGEND**

	Commercial District
	Residential-40
	Residential-60
	Thames River Design District
	Special Resource Protection Overlay
	Dwelling within 100' of site



**KEY/ZONING MAP**  
SOURCE: TOWN OF PRESTON  
GEOGRAPHIC INFORMATION SYSTEM  
(GIS) 8/18/23  
500 250 0 500 1000  
SCALE: 1"=500'

**ABUTTERS LIST**  
WITHIN 100 FEET OF SUBJECT LOT

21-1-12-124 SAVIN PRESTON LLC 77 STERLING ROAD EAST HARTFORD CT 06108	26-1-12-98 CASTLE REALTY LLC P O BOX 266 STONINGTON CT 06376	26-1-12-132 COVANTA SE CONNECTICUT CO 3520 PIEMONT RD NE - STE 410 ATLANTA GA 30305
26-1-12-136 RABOVSKY THOMAS P JR 136 ROUTE 12 PRESTON CT 06365	26-1-12-138 VOCATURA PROPERTIES LLC 55 BROWN SCHOOL RD PRESTON CT 06365	26-1-12-134 VOC'S REALTY LLC 55 BROWN SCHOOL RD PRESTON CT 06365
26-1-12-142 VOCATURA PROPERTIES LLC 55 BROWN SCHOOL RD PRESTON CT 06365	26-1-DRA1-24 HAPPYLAND PROPERTIES LLC 24 ROOSEVELT AVE EXT PRESTON CT 06365	26-1-KEN1-5 POLLARD JOYCE 5 KENDALL RD PRESTON CT 06365
26-1-KEN1-6 COURBIN JOHN + SANDRA L 6 KENDALL ROAD PRESTON CT 06365	26-1-KEN1-7 DELACRUZ MENDEZ JORGE LUIS 7 KENDALL RD PRESTON CT 06365	26-1-KEN1-9 BIRKBECK ANDY & CAROLYN R 9 KENDALL RD PRESTON CT 06365
26-1-KEN1-16 SE CT REGIONAL RESOURCES REC PO BOX 787 NORWICH CT 06360	26-1-KEN1-18 BIRKODD LLC 18 KENDALL RD PRESTON CT 06365	26-12-132 SE CT REGIONAL RESOURCES REC 3520 PIEMONT RD NE - STE 410 ATLANTA GA 30305

**INDEX OF SHEETS**

SHEET NO.	DRAWING TITLE	REVISION
1	COVER SHEET	0
2	IMPROVEMENT LOCATION SURVEY	0
3	ASP COMPOST FACILITY SITE PLAN (FINAL)	0
4	GRADING & DRAINAGE PLAN	0
5	EROSION & SEDIMENT CONTROL PLAN	0
6	DETAILS & SECTIONS 1	0
7	DETAILS & SECTIONS 2	0
8	DETAILS & SECTIONS 3	0

APPROVED BY THE PLANNING AND ZONING COMMISSION

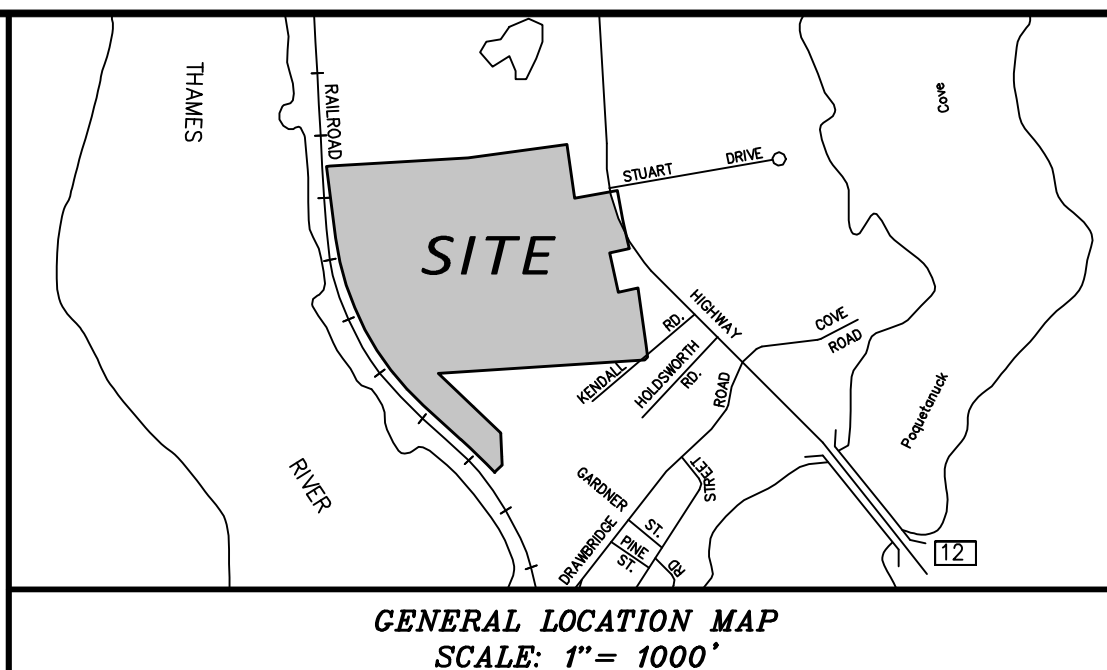
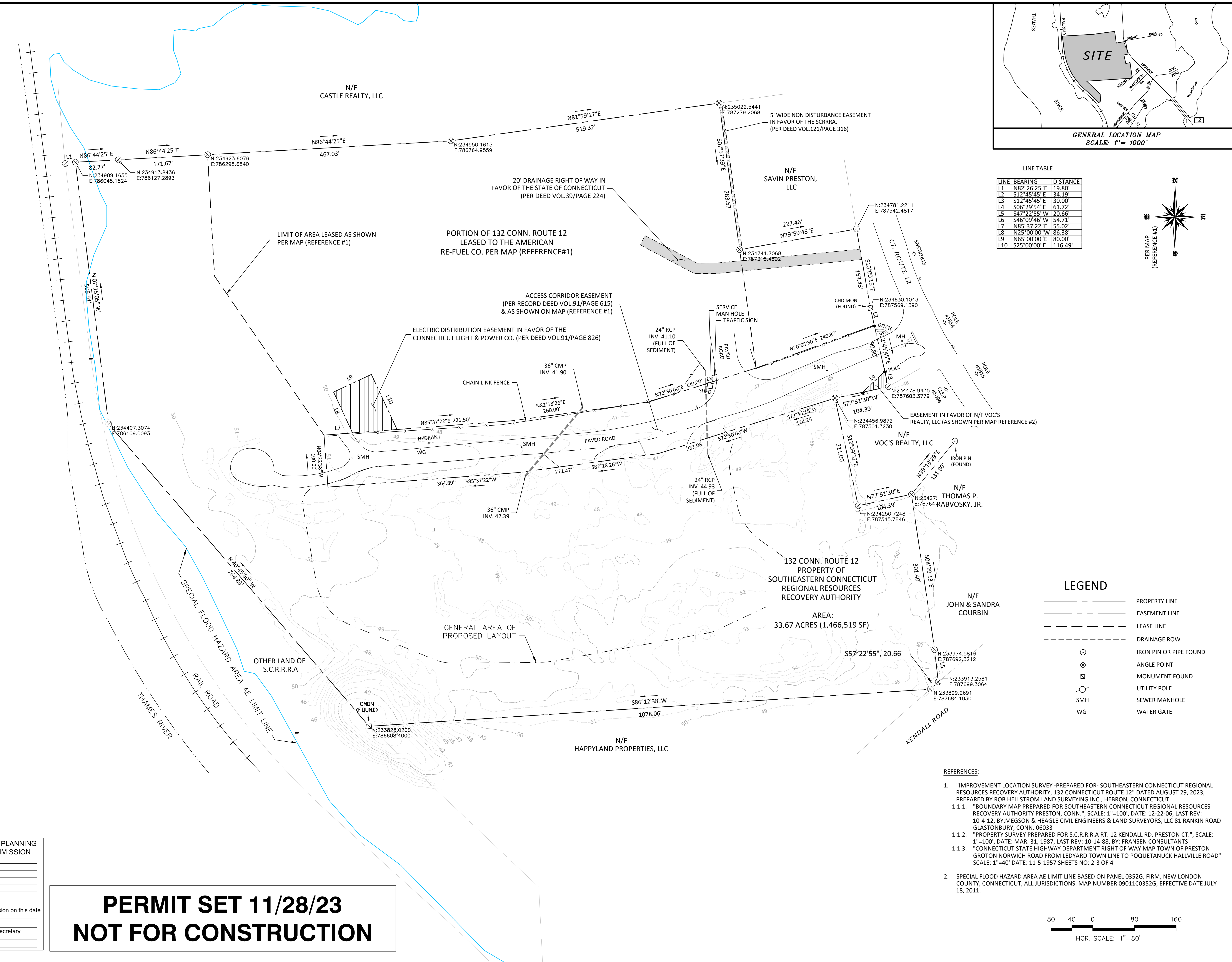
Site Plan # \_\_\_\_\_  
Description \_\_\_\_\_  
Project Location \_\_\_\_\_

Owner \_\_\_\_\_  
Applicant \_\_\_\_\_  
Approved by the Commission on this date \_\_\_\_\_

Signed Chairman/Secretary \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
Work Completion Date \_\_\_\_\_

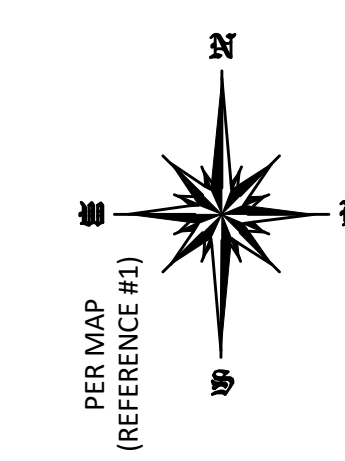


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LINE TABLE

LINE	BEARING	DISTANCE
L1	N82°26'25\"/>	



LEGEND

	PROPERTY LINE
	EASEMENT LINE
	LEASE LINE
	DRAINAGE ROW
	IRON PIN OR PIPE FOUND
	ANGLE POINT
	MONUMENT FOUND
	UTILITY POLE
	SEWER MANHOLE
	WATER GATE

- REFERENCES:
- "IMPROVEMENT LOCATION SURVEY - PREPARED FOR- SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY, 132 CONNECTICUT ROUTE 12" DATED AUGUST 29, 2023, PREPARED BY ROB HELLSTROM LAND SURVEYING INC., HEBRON, CONNECTICUT.
    - "BOUNDARY MAP PREPARED FOR SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY PRESTON, CONN.", SCALE: 1"=100', DATE: 12-22-06, LAST REV: 10-4-12, BY: MEGSON & HEAGLE CIVIL ENGINEERS & LAND SURVEYORS, LLC 81 RANKIN ROAD GLASTONBURY, CONN. 06033
    - "PROPERTY SURVEY PREPARED FOR S.C.R.R.A RT. 12 KENDALL RD. PRESTON CT.", SCALE: 1"=100', DATE: MAR. 31, 1987, LAST REV: 10-14-88, BY: FRANSEN CONSULTANTS 4 EXECUTIVE BLDG. SUITE 303, SUFFERN, NY 10901 PH: (845) 357-1510 FAX: (845) 357-1049
    - "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF PRESTON GROTON NORWICH ROAD FROM LEDYARD TOWN LINE TO POQUETANUCK HALLVILLE ROAD" SCALE: 1"=40' DATE: 11-5-1957 SHEETS NO: 2-3 OF 4
  - SPECIAL FLOOD HAZARD AREA AE LIMIT LINE BASED ON PANEL 0352G, FIRM, NEW LONDON COUNTY, CONNECTICUT, ALL JURISDICTIONS. MAP NUMBER 09011C0352G, EFFECTIVE DATE JULY 18, 2011.

APPROVED BY THE PLANNING AND ZONING COMMISSION

Site Plan # \_\_\_\_\_  
 Description \_\_\_\_\_  
 Project Location \_\_\_\_\_  
 Owner \_\_\_\_\_  
 Applicant \_\_\_\_\_  
 Approved by the Commission on this date \_\_\_\_\_

Signed Chairman/Secretary \_\_\_\_\_  
 Expiration Date \_\_\_\_\_  
 Work Completion Date \_\_\_\_\_

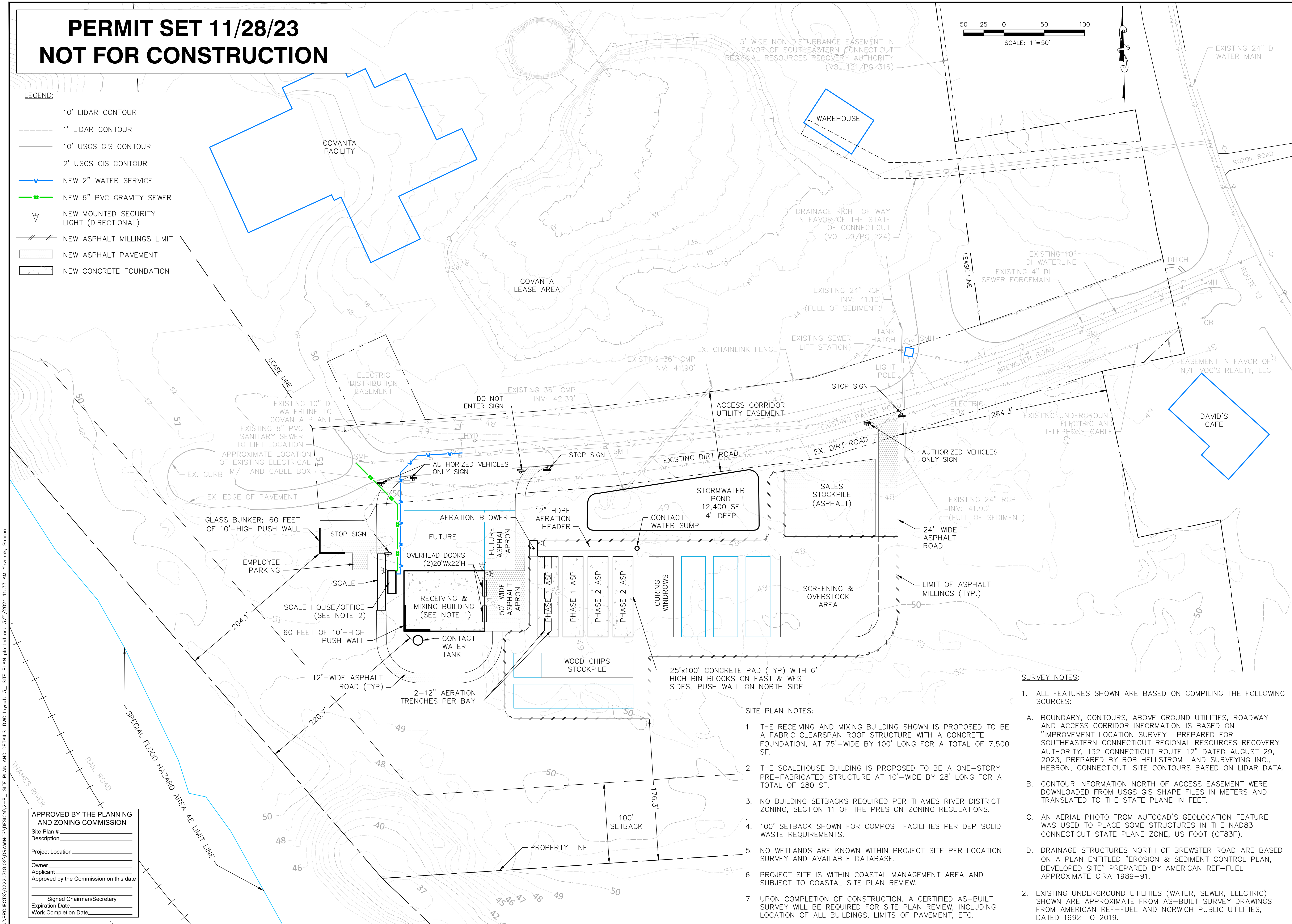
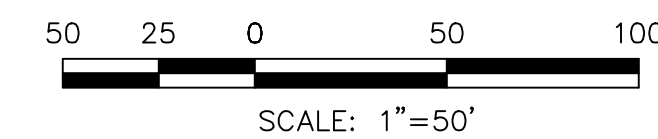
**PERMIT SET 11/28/23**  
**NOT FOR CONSTRUCTION**

<b>SCS ENGINEERS</b> STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 4 EXECUTIVE BLDG. SUITE 303, SUFFERN, NY 10901 PH: (845) 357-1510 FAX: (845) 357-1049	CLIENT <b>SCRRRA</b> 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335	SHEET TITLE <b>IMPROVEMENT LOCATION SURVEY</b> PROJECT TITLE <b>COMPOST FEASIBILITY STUDY</b> <b>132 ROUTE 12</b> <b>TOWN OF PRESTON, CONN</b>	DATE: _____ REVISION: _____ NO. _____
	CADD FILE: 2-8_SITE PLAN and DETAILS DATE: 11/28/23 SCALE: AS SHOWN DRAWING NO. <div style="font-size: 2em; font-weight: bold; text-align: center;">2</div> of 8	G/A RW BY: MJB APP. BY: GPM DWN. BY: SHY CHK. BY: GPM	



# PERMIT SET 11/28/23 NOT FOR CONSTRUCTION

- LEGEND:**
- 10' LIDAR CONTOUR
  - 1' LIDAR CONTOUR
  - 10' USGS GIS CONTOUR
  - 2' USGS GIS CONTOUR
  - NEW 2" WATER SERVICE
  - NEW 6" PVC GRAVITY SEWER
  - ▽ NEW MOUNTED SECURITY LIGHT (DIRECTIONAL)
  - NEW ASPHALT MILLINGS LIMIT
  - NEW ASPHALT PAVEMENT
  - NEW CONCRETE FOUNDATION



**SITE PLAN NOTES:**

1. THE RECEIVING AND MIXING BUILDING SHOWN IS PROPOSED TO BE A FABRIC CLEARSPAN ROOF STRUCTURE WITH A CONCRETE FOUNDATION, AT 75'-WIDE BY 100' LONG FOR A TOTAL OF 7,500 SF.
2. THE SCALEHOUSE BUILDING IS PROPOSED TO BE A ONE-STORY PRE-FABRICATED STRUCTURE AT 10'-WIDE BY 28' LONG FOR A TOTAL OF 280 SF.
3. NO BUILDING SETBACKS REQUIRED PER THAMES RIVER DISTRICT ZONING, SECTION 11 OF THE PRESTON ZONING REGULATIONS.
4. 100' SETBACK SHOWN FOR COMPOST FACILITIES PER DEP SOLID WASTE REQUIREMENTS.
5. NO WETLANDS ARE KNOWN WITHIN PROJECT SITE PER LOCATION SURVEY AND AVAILABLE DATABASE.
6. PROJECT SITE IS WITHIN COASTAL MANAGEMENT AREA AND SUBJECT TO COASTAL SITE PLAN REVIEW.
7. UPON COMPLETION OF CONSTRUCTION, A CERTIFIED AS-BUILT SURVEY WILL BE REQUIRED FOR SITE PLAN REVIEW, INCLUDING LOCATION OF ALL BUILDINGS, LIMITS OF PAVEMENT, ETC.

**SURVEY NOTES:**

1. ALL FEATURES SHOWN ARE BASED ON COMPILING THE FOLLOWING SOURCES:
  - A. BOUNDARY, CONTOURS, ABOVE GROUND UTILITIES, ROADWAY AND ACCESS CORRIDOR INFORMATION IS BASED ON "IMPROVEMENT LOCATION SURVEY - PREPARED FOR - SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY, 132 CONNECTICUT ROUTE 12" DATED AUGUST 29, 2023, PREPARED BY ROB HELLSTROM LAND SURVEYING INC., HEBRON, CONNECTICUT. SITE CONTOURS BASED ON LIDAR DATA.
  - B. CONTOUR INFORMATION NORTH OF ACCESS EASEMENT WERE DOWNLOADED FROM USGS GIS SHAPE FILES IN METERS AND TRANSLATED TO THE STATE PLANE IN FEET.
  - C. AN AERIAL PHOTO FROM AUTOCAD'S GEOLOCATION FEATURE WAS USED TO PLACE SOME STRUCTURES IN THE NAD83 CONNECTICUT STATE PLANE ZONE, US FOOT (CTB3F).
  - D. DRAINAGE STRUCTURES NORTH OF BREWSTER ROAD ARE BASED ON A PLAN ENTITLED "EROSION & SEDIMENT CONTROL PLAN, DEVELOPED SITE" PREPARED BY AMERICAN REF-FUEL APPROXIMATE CIRCA 1989-91.
2. EXISTING UNDERGROUND UTILITIES (WATER, SEWER, ELECTRIC) SHOWN ARE APPROXIMATE FROM AS-BUILT SURVEY DRAWINGS FROM AMERICAN REF-FUEL AND NORWICH PUBLIC UTILITIES, DATED 1992 TO 2019.

APPROVED BY THE PLANNING AND ZONING COMMISSION

Site Plan # \_\_\_\_\_  
Description \_\_\_\_\_

Project Location \_\_\_\_\_

Owner \_\_\_\_\_  
Applicant \_\_\_\_\_  
Approved by the Commission on this date \_\_\_\_\_

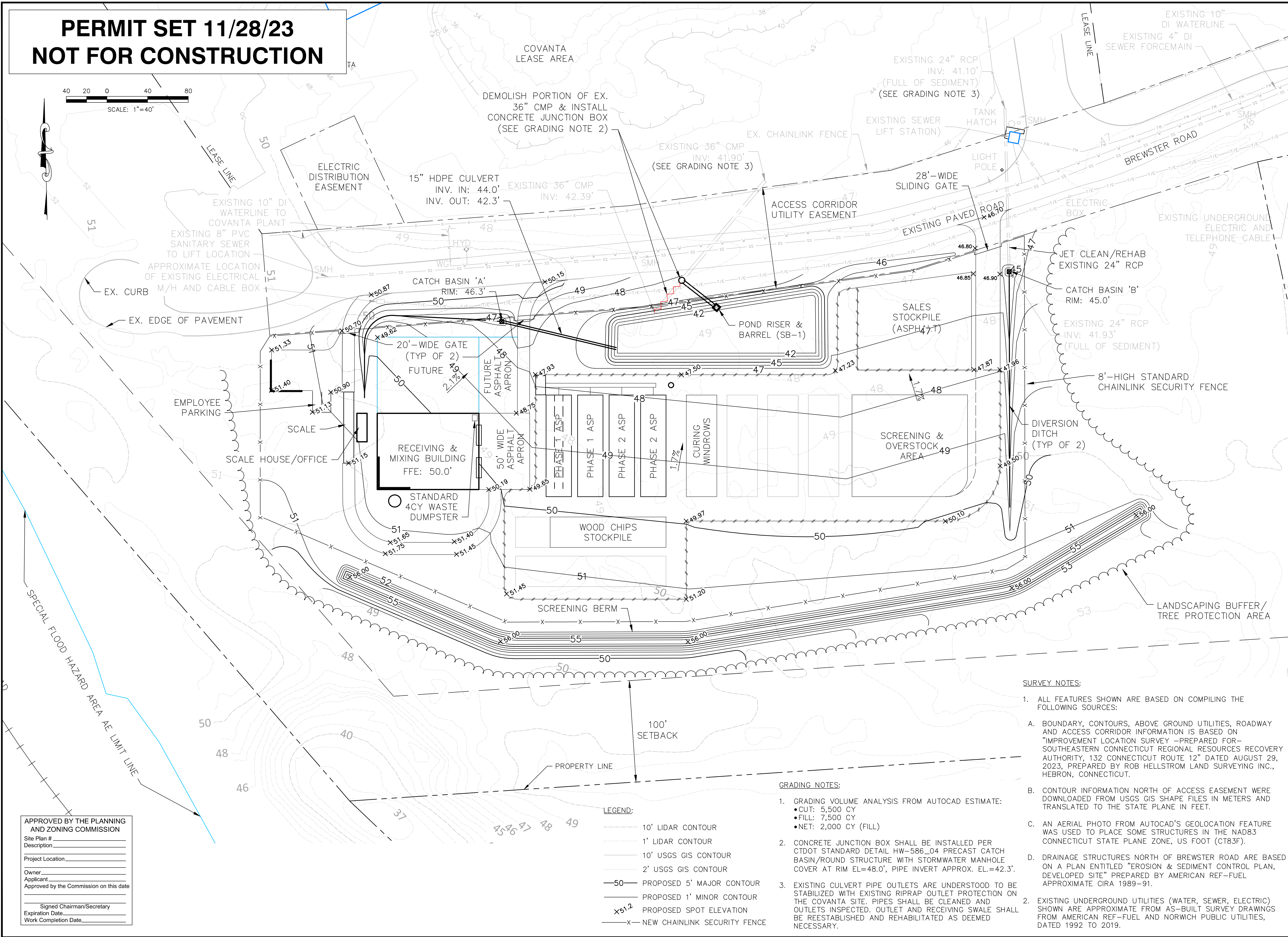
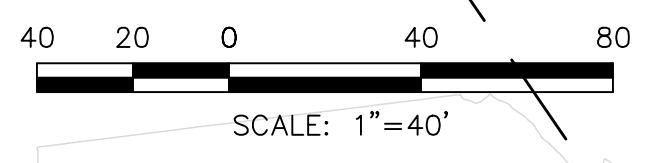
Signed Chairman/Secretary \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
Work Completion Date \_\_\_\_\_

<b>SHEET TITLE</b>	<b>ASP COMPOST FACILITY SITE PLAN</b>		
<b>PROJECT TITLE</b>	<b>ASP COMPOST FACILITY 132 ROUTE 12 TOWN OF PRESTON, CONN</b>		
<b>CLIENT</b>	<b>SOUTHEAST CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335</b>		
<b>DATE</b>		<b>REVISION</b>	
<b>NO.</b>			
<b>DATE</b>			
<b>SCALE:</b>	AS SHOWN		
<b>DRAWING NO.</b>	<b>3</b> of <b>8</b>		

I:\PROJECTS\02220718.02\DRAWINGS\DESIGN\2-8-- SITE PLAN AND DETAILS.DWG layout: 3-- SITE PLAN plotted on: 3/5/2024 11:33 AM Yevchuk, Sharon



# PERMIT SET 11/28/23 NOT FOR CONSTRUCTION



APPROVED BY THE PLANNING AND ZONING COMMISSION  
 Site Plan # \_\_\_\_\_  
 Description \_\_\_\_\_  
 Project Location \_\_\_\_\_  
 Owner \_\_\_\_\_  
 Applicant \_\_\_\_\_  
 Approved by the Commission on this date \_\_\_\_\_  
 Signed Chairman/Secretary \_\_\_\_\_  
 Expiration Date \_\_\_\_\_  
 Work Completion Date \_\_\_\_\_

- LEGEND:**
- 10' LIDAR CONTOUR
  - 1' LIDAR CONTOUR
  - 10' USGS GIS CONTOUR
  - 2' USGS GIS CONTOUR
  - 50- PROPOSED 5' MAJOR CONTOUR
  - PROPOSED 1' MINOR CONTOUR
  - x51.2 PROPOSED SPOT ELEVATION
  - x- NEW CHAINLINK SECURITY FENCE

- GRADING NOTES:**
- GRADING VOLUME ANALYSIS FROM AUTOCAD ESTIMATE:
    - CUT: 5,500 CY
    - FILL: 7,500 CY
    - NET: 2,000 CY (FILL)
  - CONCRETE JUNCTION BOX SHALL BE INSTALLED PER CTDOT STANDARD DETAIL HW-586\_04 PRECAST CATCH BASIN/ROUND STRUCTURE WITH STORMWATER MANHOLE COVER AT RIM EL=48.0', PIPE INVERT APPROX. EL=42.3'.
  - EXISTING CULVERT PIPE OUTLETS ARE UNDERSTOOD TO BE STABILIZED WITH EXISTING RIPRAP OUTLET PROTECTION ON THE COVANTA SITE. PIPES SHALL BE CLEANED AND OUTLETS INSPECTED. OUTLET AND RECEIVING SWALE SHALL BE REESTABLISHED AND REHABILITATED AS DEEMED NECESSARY.

- SURVEY NOTES:**
- ALL FEATURES SHOWN ARE BASED ON COMPILING THE FOLLOWING SOURCES:
    - BOUNDARY, CONTOURS, ABOVE GROUND UTILITIES, ROADWAY AND ACCESS CORRIDOR INFORMATION IS BASED ON "IMPROVEMENT LOCATION SURVEY - PREPARED FOR - SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY, 132 CONNECTICUT ROUTE 12" DATED AUGUST 29, 2023, PREPARED BY ROB HELLSTROM LAND SURVEYING INC., HEBRON, CONNECTICUT.
    - CONTOUR INFORMATION NORTH OF ACCESS EASEMENT WERE DOWNLOADED FROM USGS GIS SHAPE FILES IN METERS AND TRANSLATED TO THE STATE PLANE IN FEET.
    - AN AERIAL PHOTO FROM AUTOCAD'S GEOLOCATION FEATURE WAS USED TO PLACE SOME STRUCTURES IN THE NAD83 CONNECTICUT STATE PLANE ZONE, US FOOT (CT83F).
    - DRAINAGE STRUCTURES NORTH OF BREWSTER ROAD ARE BASED ON A PLAN ENTITLED "EROSION & SEDIMENT CONTROL PLAN, DEVELOPED SITE" PREPARED BY AMERICAN REF-FUEL APPROXIMATE CIRA 1989-91.
  - EXISTING UNDERGROUND UTILITIES (WATER, SEWER, ELECTRIC) SHOWN ARE APPROXIMATE FROM AS-BUILT SURVEY DRAWINGS FROM AMERICAN REF-FUEL AND NORWICH PUBLIC UTILITIES, DATED 1992 TO 2019.

NO.	REVISION	DATE

SHEET TITLE: **GRADING & DRAINAGE PLAN**  
 PROJECT TITLE: **ASP COMPOST FACILITY**  
**132 ROUTE 12**  
**TOWN OF PRESTON, CONN**

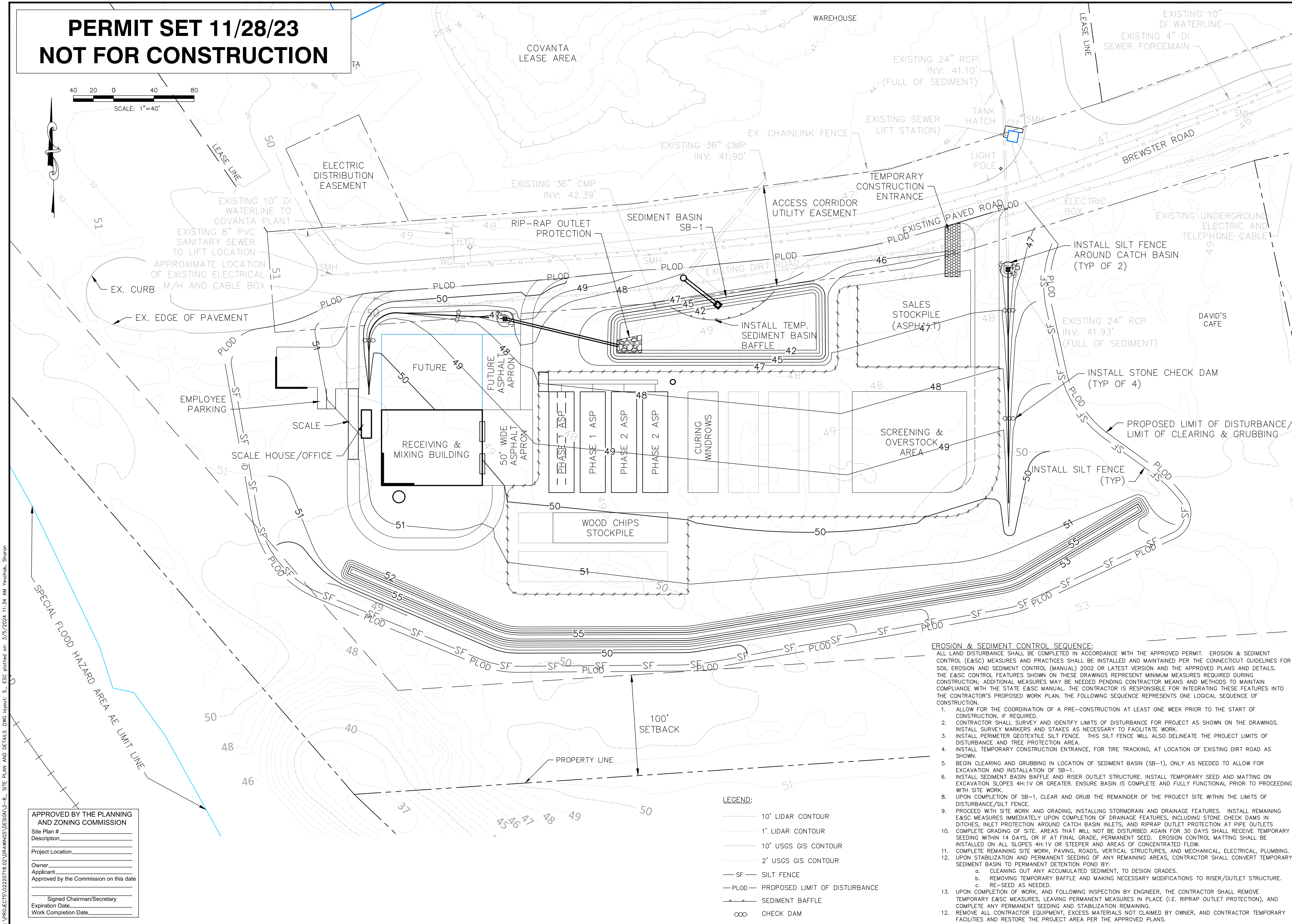
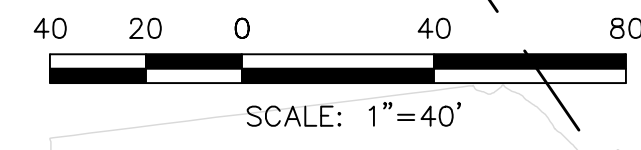
CLIENT: **SOUTHEAST CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY**  
 7 HURLBUTT ROAD  
 GALES FERRY, CONNECTICUT 06335

**SCS ENGINEERS**  
 STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.  
 4 EXECUTIVE BLVD. SUITE 303, SUFFERN, NY 10901  
 PH. (845) 357-1510 FAX. (845) 357-1049  
 PROJ. 230718.02  
 DWG. BY: SHY  
 C/A. RW: JDS  
 CHK. BY: MJB  
 APP. BY: GPM

CADD FILE: 2-8\_Site Plan and DETAILS  
 DATE: 11/28/23  
 SCALE: AS SHOWN  
 DRAWING NO. **4** of **8**



# PERMIT SET 11/28/23 NOT FOR CONSTRUCTION



- EROSION & SEDIMENT CONTROL SEQUENCE:**  
ALL LAND DISTURBANCE SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED PERMIT. EROSION & SEDIMENT CONTROL (E&SC) MEASURES AND PRACTICES SHALL BE INSTALLED AND MAINTAINED PER THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (MANUAL) 2002 OR LATEST VERSION AND THE APPROVED PLANS AND DETAILS. THE E&SC CONTROL FEATURES SHOWN ON THESE DRAWINGS REPRESENT MINIMUM MEASURES REQUIRED DURING CONSTRUCTION; ADDITIONAL MEASURES MAY BE NEEDED PENDING CONTRACTOR MEANS AND METHODS TO MAINTAIN COMPLIANCE WITH THE STATE E&SC MANUAL. THE CONTRACTOR IS RESPONSIBLE FOR INTEGRATING THESE FEATURES INTO THE CONTRACTOR'S PROPOSED WORK PLAN. THE FOLLOWING SEQUENCE REPRESENTS ONE LOGICAL SEQUENCE OF CONSTRUCTION.
1. ALLOW FOR THE COORDINATION OF A PRE-CONSTRUCTION AT LEAST ONE WEEK PRIOR TO THE START OF CONSTRUCTION, IF REQUIRED.
  2. CONTRACTOR SHALL SURVEY AND IDENTIFY LIMITS OF DISTURBANCE FOR PROJECT AS SHOWN ON THE DRAWINGS. INSTALL SURVEY MARKERS AND STAKES AS NECESSARY TO FACILITATE WORK.
  3. INSTALL PERIMETER GEOTEXTILE SILT FENCE. THIS SILT FENCE WILL ALSO DELINEATE THE PROJECT LIMITS OF DISTURBANCE AND TREE PROTECTION AREA.
  4. INSTALL TEMPORARY CONSTRUCTION ENTRANCE, FOR TIRE TRACKING, AT LOCATION OF EXISTING DIRT ROAD AS SHOWN.
  5. BEGIN CLEARING AND GRUBBING IN LOCATION OF SEDIMENT BASIN (SB-1), ONLY AS NEEDED TO ALLOW FOR EXCAVATION AND INSTALLATION OF SB-1.
  6. INSTALL SEDIMENT BASIN BAFFLE AND RISER OUTLET STRUCTURE. INSTALL TEMPORARY SEED AND MATTING ON EXCAVATION SLOPES 4H:1V OR GREATER. ENSURE BASIN IS COMPLETE AND FULLY FUNCTIONAL PRIOR TO PROCEEDING WITH SITE WORK.
  7. UPON COMPLETION OF SB-1, CLEAR AND GRUB THE REMAINDER OF THE PROJECT SITE WITHIN THE LIMITS OF DISTURBANCE/SILT FENCE.
  8. PROCEED WITH SITE WORK AND GRADING, INSTALLING STORMDRAIN AND DRAINAGE FEATURES. INSTALL REMAINING E&SC MEASURES IMMEDIATELY UPON COMPLETION OF DRAINAGE FEATURES, INCLUDING STONE CHECK DAMS IN DITCHES, INLET PROTECTION AROUND CATCH BASIN INLETS, AND RIPRAP OUTLET PROTECTION AT PIPE OUTLETS.
  9. COMPLETE GRADING OF SITE. AREAS THAT WILL NOT BE DISTURBED AGAIN FOR 30 DAYS SHALL RECEIVE TEMPORARY SEEDING WITHIN 14 DAYS, OR IF AT FINAL GRADE, PERMANENT SEED. EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL SLOPES 4H:1V OR STEEPER AND AREAS OF CONCENTRATED FLOW.
  10. COMPLETE REMAINING SITE WORK, PAVING, ROADS, VERTICAL STRUCTURES, AND MECHANICAL, ELECTRICAL, PLUMBING.
  11. UPON STABILIZATION AND PERMANENT SEEDING OF ANY REMAINING AREAS, CONTRACTOR SHALL CONVERT TEMPORARY SEDIMENT BASIN TO PERMANENT DETENTION POND BY:
    - a. CLEANING OUT ANY ACCUMULATED SEDIMENT, TO DESIGN GRADES.
    - b. REMOVING TEMPORARY BAFFLE AND MAKING NECESSARY MODIFICATIONS TO RISER/OUTLET STRUCTURE.
    - c. RE-SEED AS NEEDED.
  12. UPON COMPLETION OF WORK, AND FOLLOWING INSPECTION BY ENGINEER, THE CONTRACTOR SHALL REMOVE TEMPORARY E&SC MEASURES, LEAVING PERMANENT MEASURES IN PLACE (I.E. RIPRAP OUTLET PROTECTION), AND COMPLETE ANY PERMANENT SEEDING AND STABILIZATION REMAINING.
  13. REMOVE ALL CONTRACTOR EQUIPMENT, EXCESS MATERIALS NOT CLAIMED BY OWNER, AND CONTRACTOR TEMPORARY FACILITIES AND RESTORE THE PROJECT AREA PER THE APPROVED PLANS.

- LEGEND:**
- 10' LIDAR CONTOUR
  - 1' LIDAR CONTOUR
  - 10' USGS GIS CONTOUR
  - 2' USGS GIS CONTOUR
  - SF — SILT FENCE
  - PLOD — PROPOSED LIMIT OF DISTURBANCE
  - SB — SEDIMENT BAFFLE
  - ∞∞ CHECK DAM

APPROVED BY THE PLANNING AND ZONING COMMISSION

Site Plan # \_\_\_\_\_  
Description \_\_\_\_\_

Project Location \_\_\_\_\_

Owner \_\_\_\_\_  
Applicant \_\_\_\_\_  
Approved by the Commission on this date \_\_\_\_\_

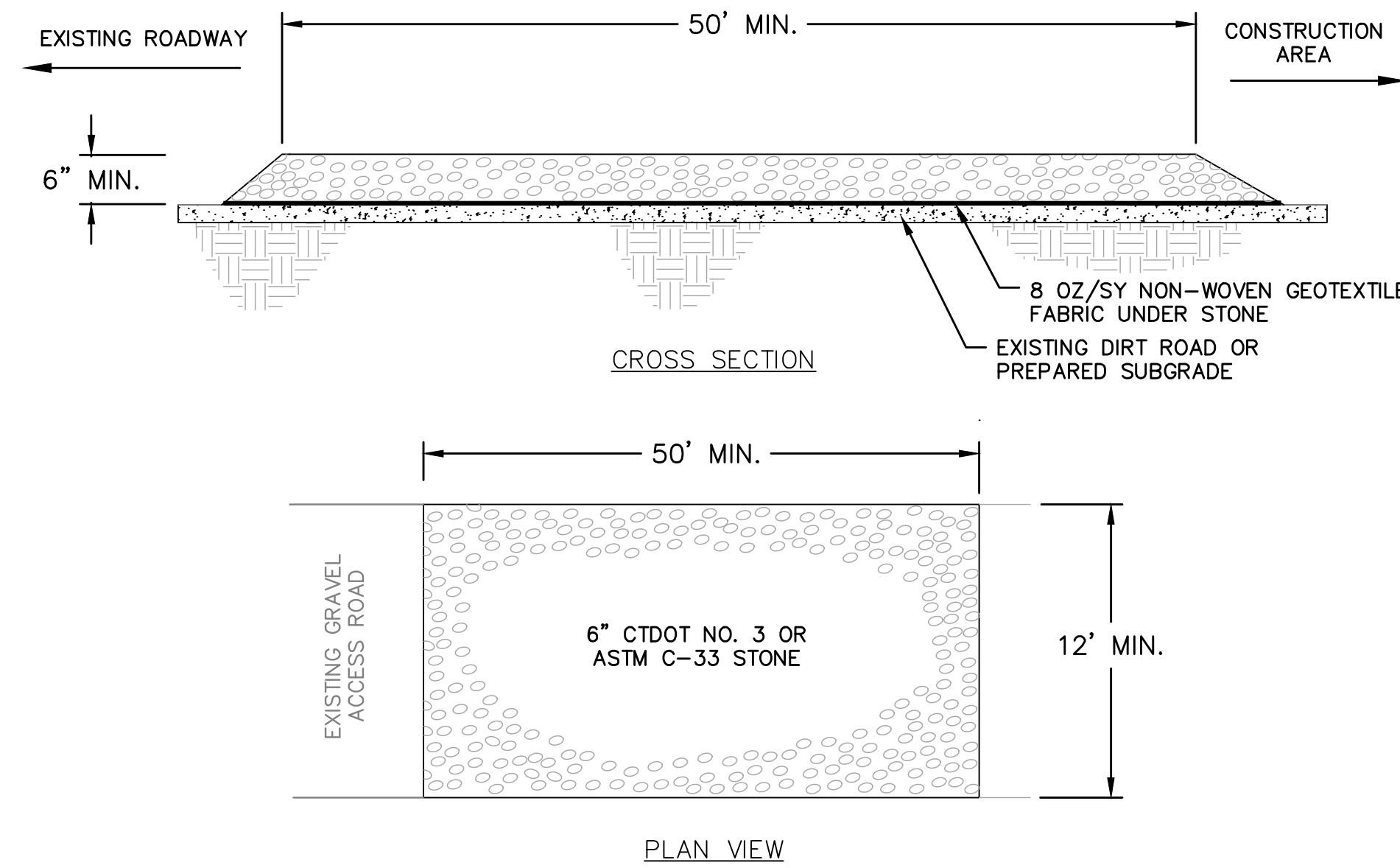
Signed Chairman/Secretary \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
Work Completion Date \_\_\_\_\_

DATE	
REVISION	
NO.	
SHEET TITLE	<b>EROSION &amp; SEDIMENT CONTROL PLAN</b>
PROJECT TITLE	<b>ASP COMPOST FACILITY 132 ROUTE 12 TOWN OF PRESTON, CONN</b>
CLIENT	<b>SOUTHEAST CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335</b>
CADD FILE:	2-8 SITE PLAN and DETAILS
	DATE: 11/28/23
SCALE:	AS SHOWN
DRAWING NO.	<b>5</b> of <b>8</b>

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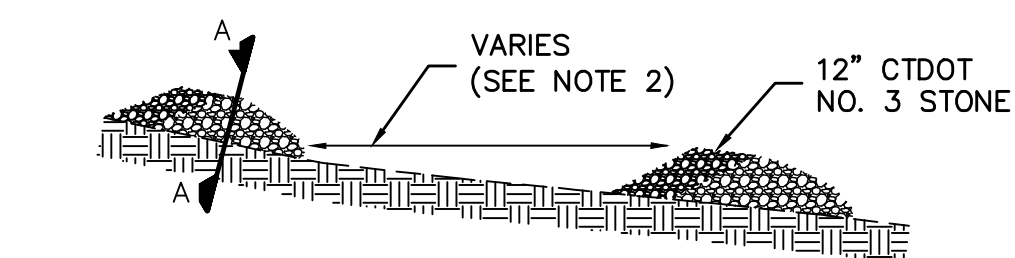
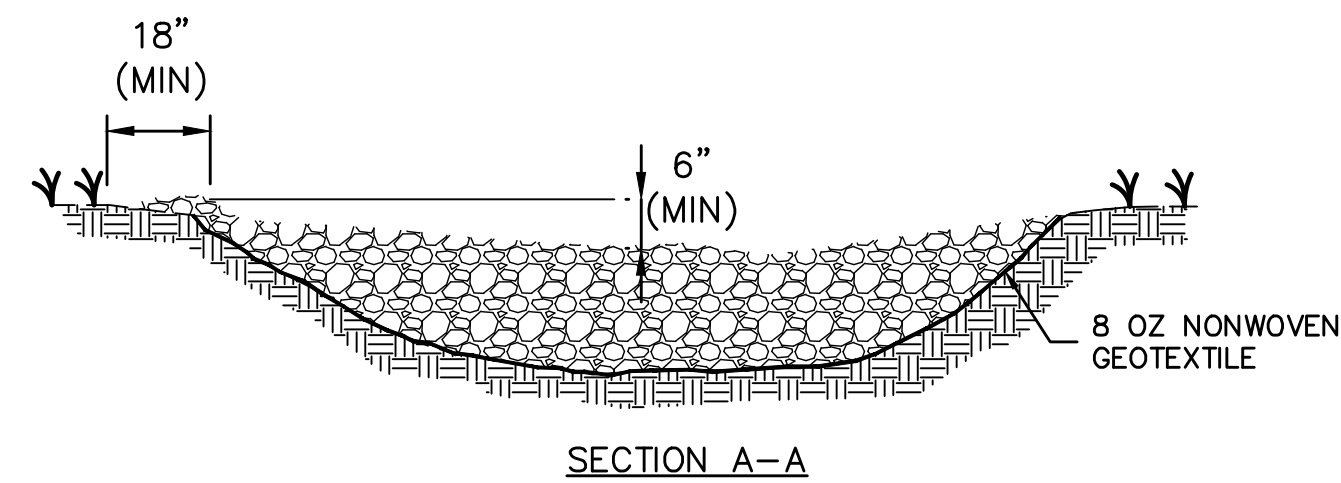
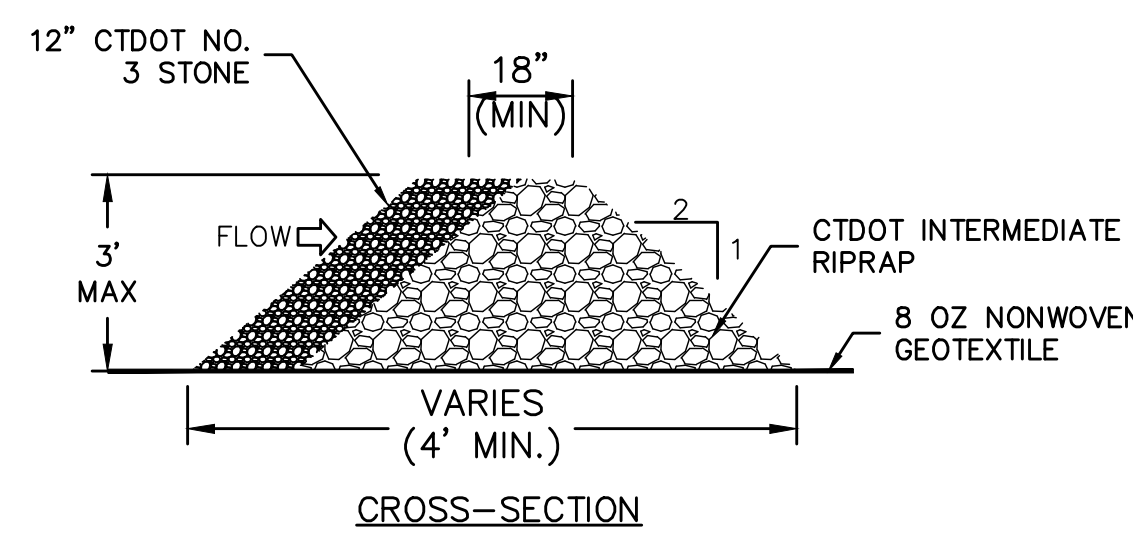
# PERMIT SET 11/28/23 NOT FOR CONSTRUCTION



**NOTES:**

- PRIOR TO INSTALLATION, THE AREA WHERE THE CONSTRUCTION ENTRANCE WILL BE INSTALLED SHALL BE CLEARED OF ALL VEGETATION, ROOTS, TOPSOIL, AND OTHER OBJECTIONABLE MATERIAL.
- IF CONSTRUCTION ON THE SITE IS SUCH THAT MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLE MUST BE WASHED BEFORE EXITING THE SITE TO THE PUBLIC ROADWAY.
- TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE, PERIODIC PLACEMENT OF ADDITIONAL 2-3" STONE ON TOP OF THE PAD SHALL BE COMPLETED.
- AFTER SITE IS STABILIZED WITH VEGETATION OR PERMANENT GROUND COVER, REMOVE TEMPORARY CONSTRUCTION ENTRANCE/EXIT.

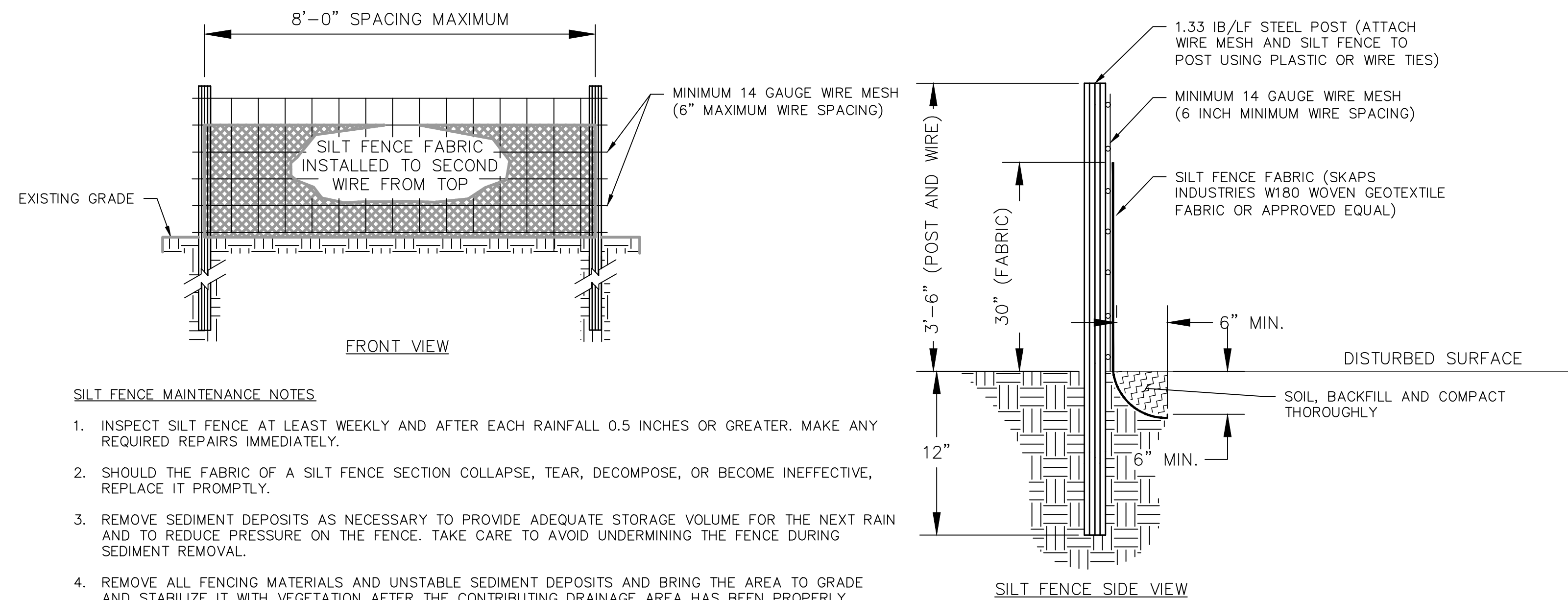
**1**  
TEMPORARY CONSTRUCTION ENTRANCE  
NO SCALE



**GENERAL NOTES:**

- CHECK DAMS MAY BE USED IN SLOPING DITCHES OR CHANNELS TO SLOW VELOCITY OR TO CREATE SEDIMENT TRAPS.
- BOTTOM OF UPSTREAM CHECK DAM SHOULD BE AT THE SAME ELEVATION AS THE TOP OF THE SUBSEQUENT CHECK DAM.

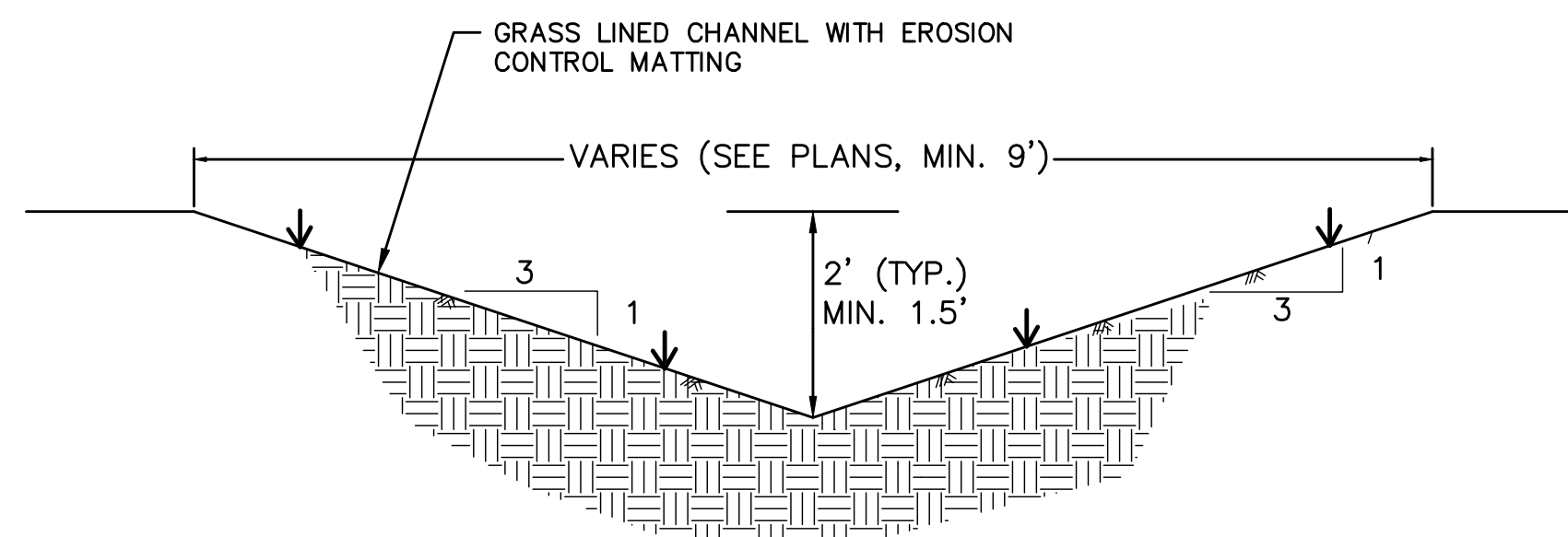
**3**  
STONE CHECK DAM  
NO SCALE



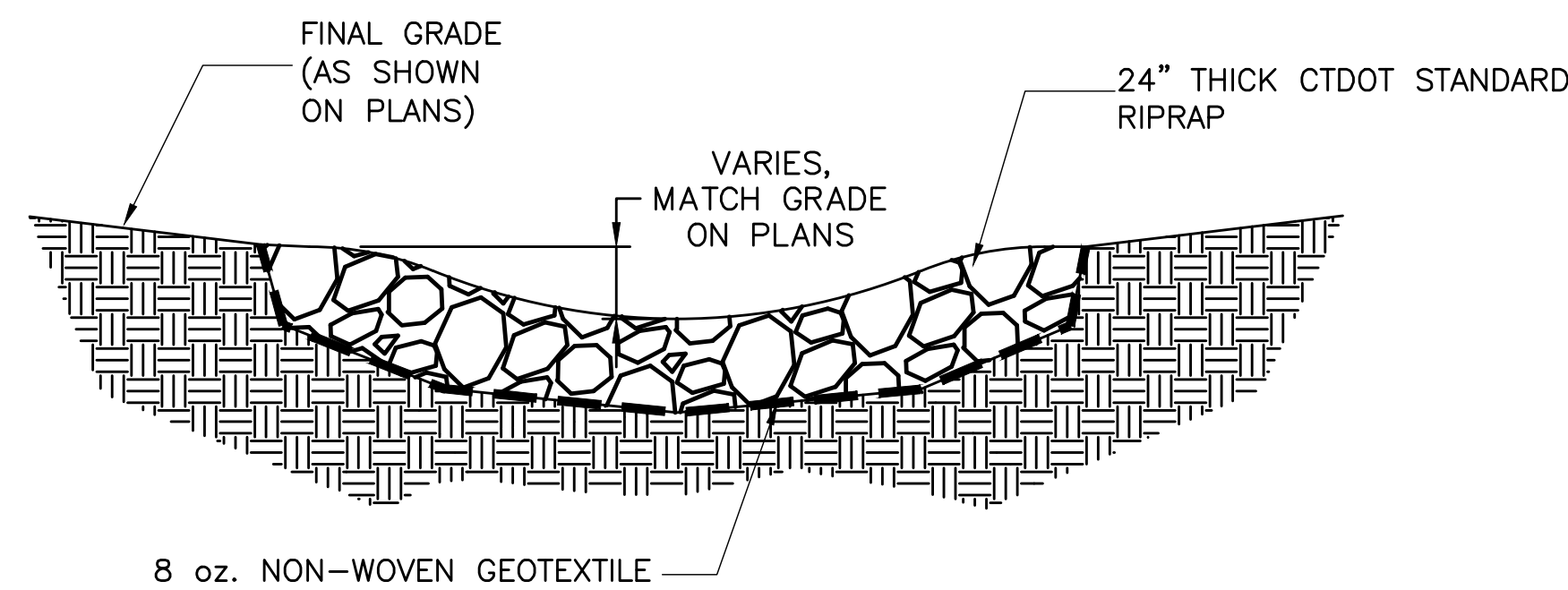
**SILT FENCE MAINTENANCE NOTES:**

- INSPECT SILT FENCE AT LEAST WEEKLY AND AFTER EACH RAINFALL 0.5 INCHES OR GREATER. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- SHOULD THE FABRIC OF A SILT FENCE SECTION COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING SEDIMENT REMOVAL.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT WITH VEGETATION AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED WITH VEGETATION OR PERMANENT GROUND COVER.

**2**  
GEOTEXTILE SILT FENCE  
NO SCALE



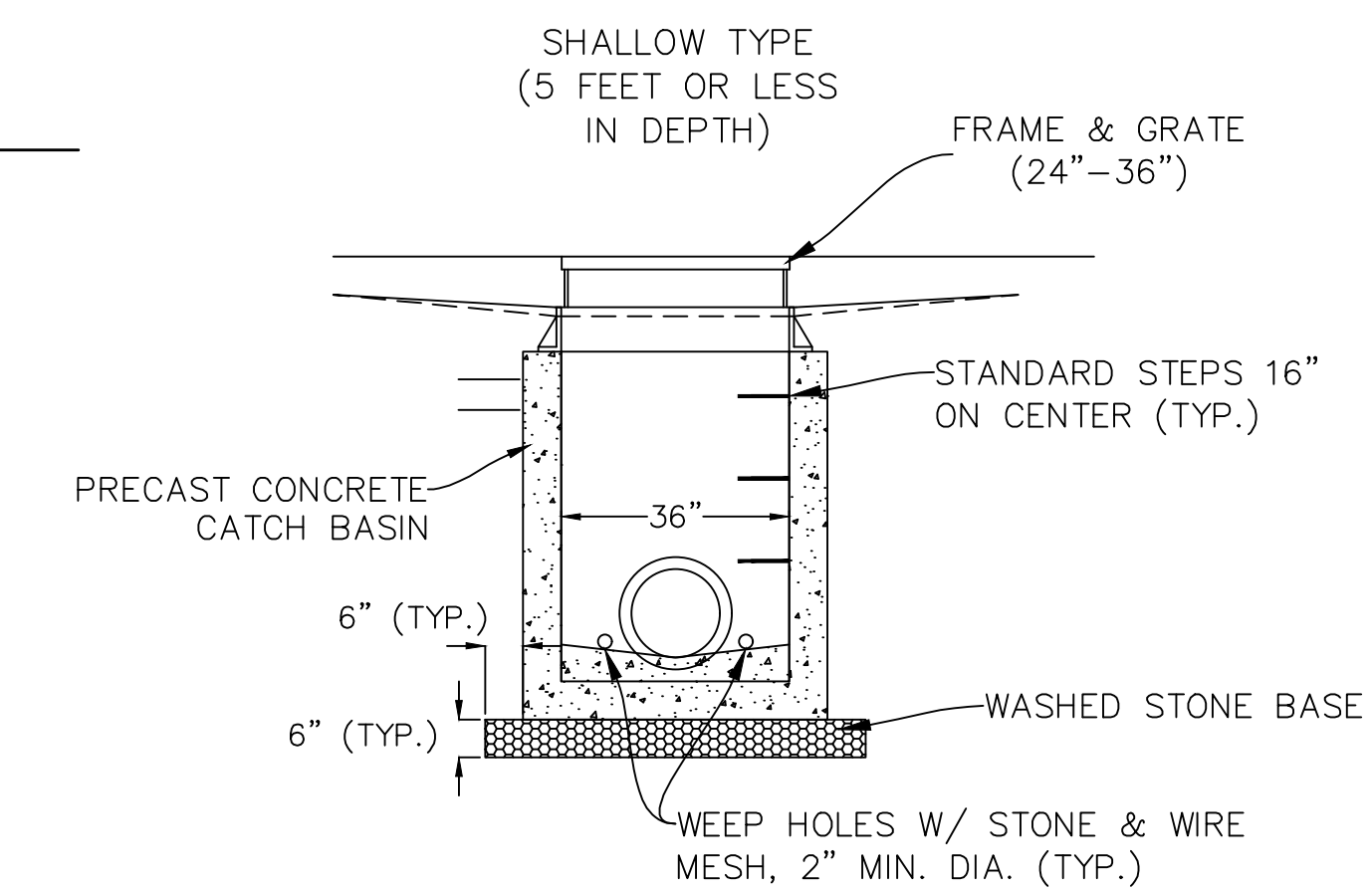
**4**  
DIVERSION DITCH  
NO SCALE



**NOTES:**

- PROVIDE RIPRAP EXTENTS TO THE LIMITS SHOWN IN PLAN VIEW.
- TOP OF RIPRAP SHALL BE FLUSH WITH STRUCTURE INVERT, IF APPLICABLE, AND MATCH FINISHED GRADE SHOWN ON GRADING PLAN.

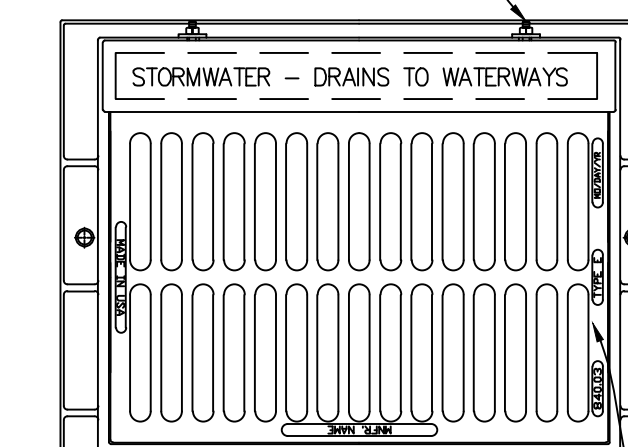
**5**  
RIPRAP STABILIZATION  
NO SCALE



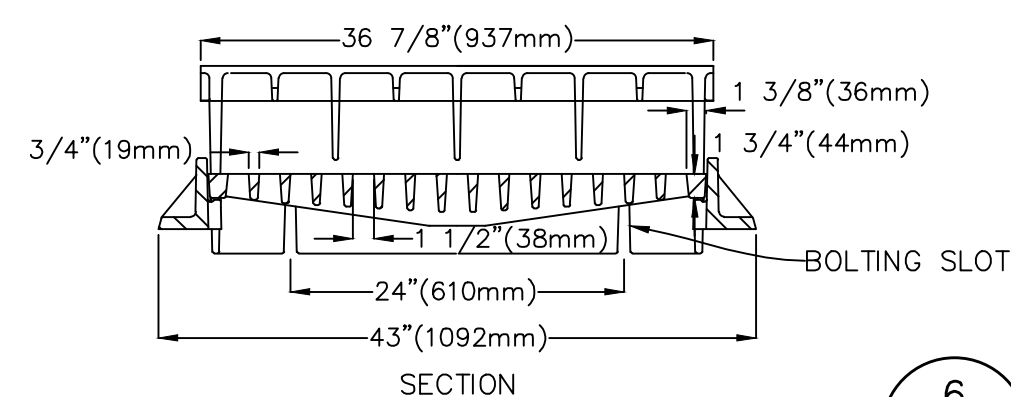
**NOTE:**

- SLAB THICKNESS SHALL BE MIN. 4" IN NON-TRAFFIC AREAS.
- FRAME, GRATE, & HOOD PER CTDOT STANDARD DRAWINGS.
- CONCRETE SHALL BE 4000 PSI MIN. FOR ALL PRECAST CONCRETE CATCH BASINS.
- PRECAST CONCRETE STRUCTURES MAY ONLY BE INSTALLED TO DEPTHS CERTIFIED AS ACCEPTABLE BY THE MANUFACTURER.

- (2) 1/2"-13 HEX. BOLT, HEAVY NUT, WASHER & SPECIAL 2 x 2 x 2 x 1/4" STEEL WASHER



YARD INLET SCHEDULE				
CATCH BASIN #	RIM ELEV. (FT)	PIPE OUTLET SIZE (IN)	PIPE INV. ELEV. (FT)	SUMP ELEV. (FT)
A	46.30	15	44.00	43.9
B	45.00	24 (EX.)	41.93	41.75



**6**  
NON-TRAFFIC CATCH BASIN INLET  
NO SCALE

APPROVED BY THE PLANNING AND ZONING COMMISSION

Site Plan # \_\_\_\_\_  
Description \_\_\_\_\_  
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Owner \_\_\_\_\_  
Applicant \_\_\_\_\_  
Approved by the Commission on this date \_\_\_\_\_

Signed Chairman/Secretary \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
Work Completion Date \_\_\_\_\_

NO.	REVISION	DATE

SHEET TITLE: **DETAILS & SECTIONS 1**  
PROJECT TITLE: **ASP COMPOST FACILITY**  
**132 ROUTE 12**  
**TOWN OF PRESTON, CONN**

CLIENT: **SOUTHEAST CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY**  
**7 HURLBUTT ROAD**  
**GALES FERRY, CONNECTICUT 06335**

**SCS ENGINEERS**  
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.  
4 EXECUTIVE BLDG. SUITE 305, SUFFERN, NY 10981  
PH: (845) 357-1049 FAX: (845) 357-1049

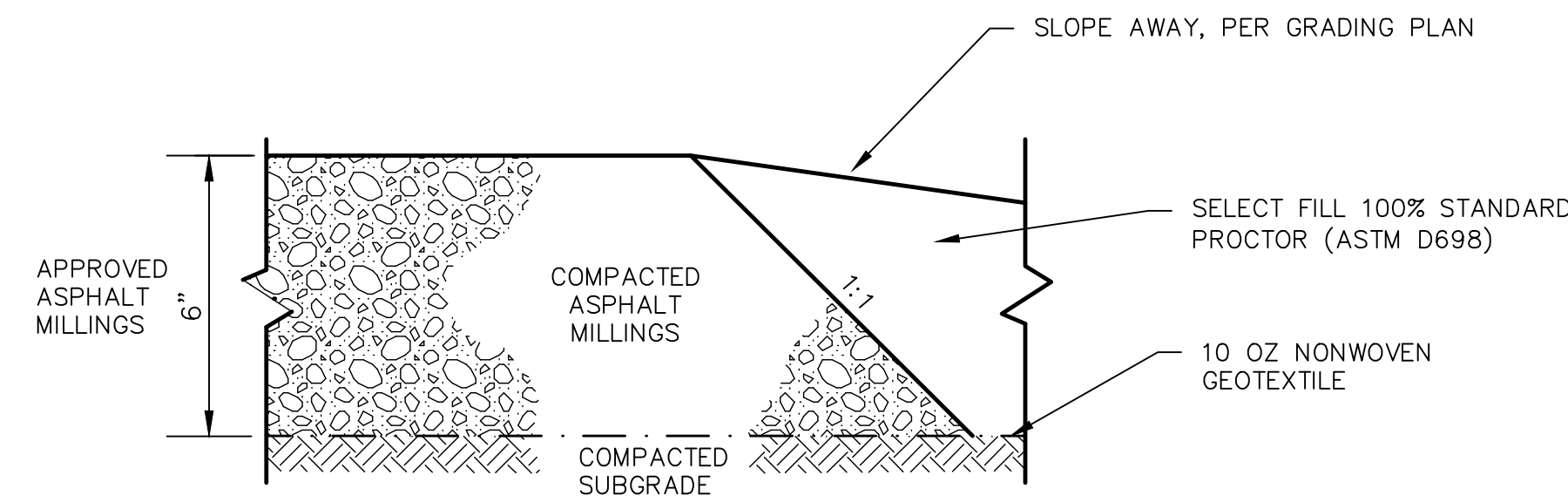
DATE: 11/28/23  
SCALE: AS SHOWN  
DRAWING NO. 6 of 8

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# PERMIT SET 11/28/23

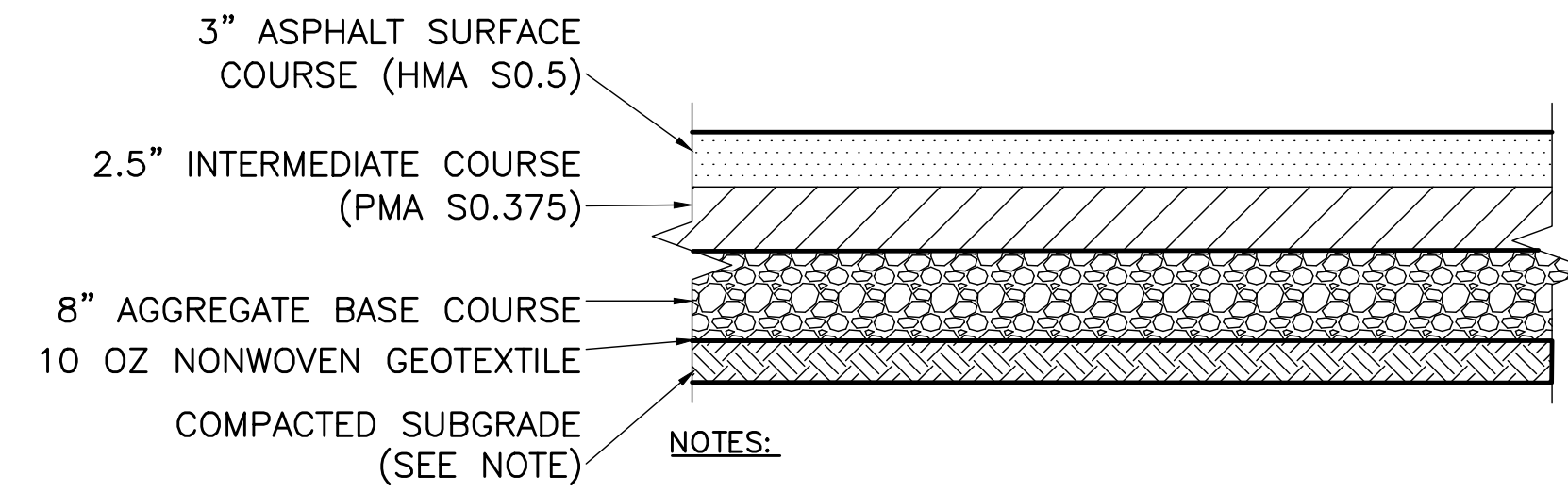
## NOT FOR CONSTRUCTION



**NOTES:**

1. PROOFROLL NATURAL SOILS IN CUT AREAS PER SPECIFICATIONS.
2. IN FILL AREAS, PLACE 2" MINIMUM SELECT FILL COMPACTED TO 98% STD. PROCTOR (ASTM D698).
4. STONE SHALL BE PLACED IN TWO 3" LIFTS, ROLLED AND COMPACTED IN PLACE.

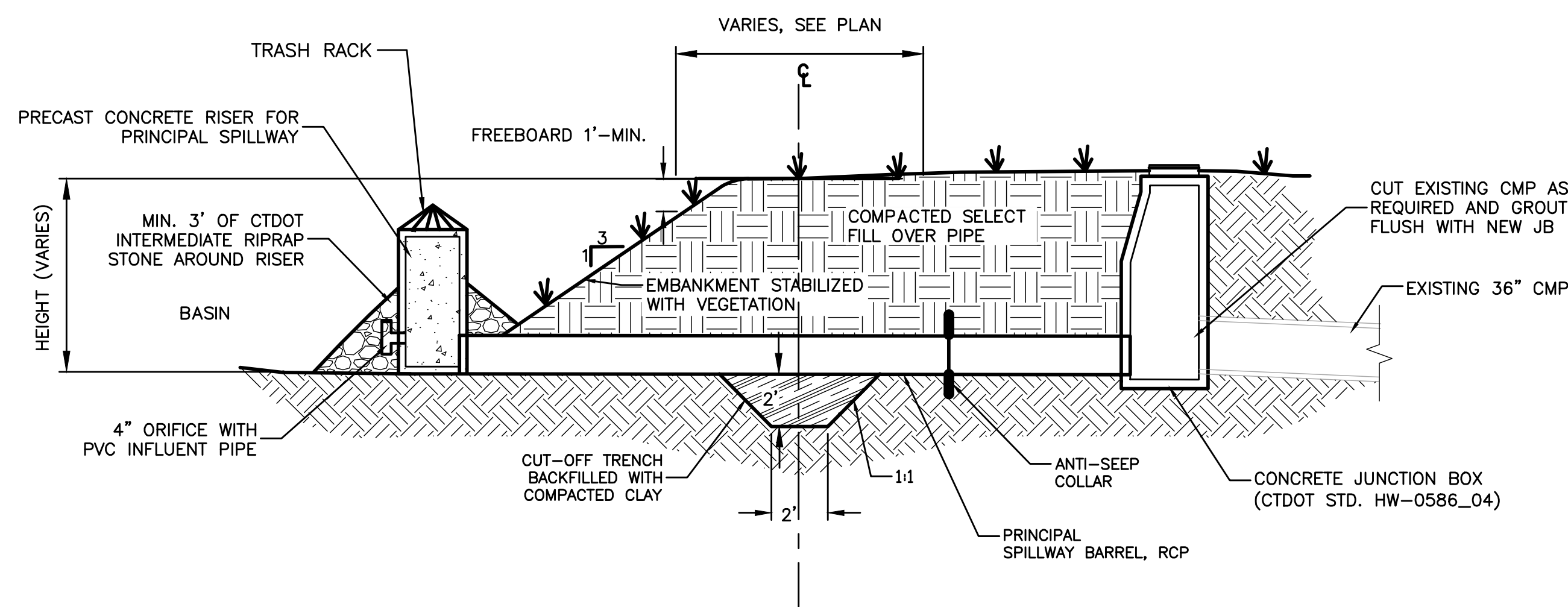
**7 ASPHALT MILLINGS**  
NO SCALE



**NOTES:**

1. 2" MINIMUM SELECT FILL COMPACTED TO 100% STD. PROCTOR (ASTM D698).
2. AGGREGATE BASE COURSE SHALL BE PLACED AND COMPACTED IN TWO 4" LIFTS.

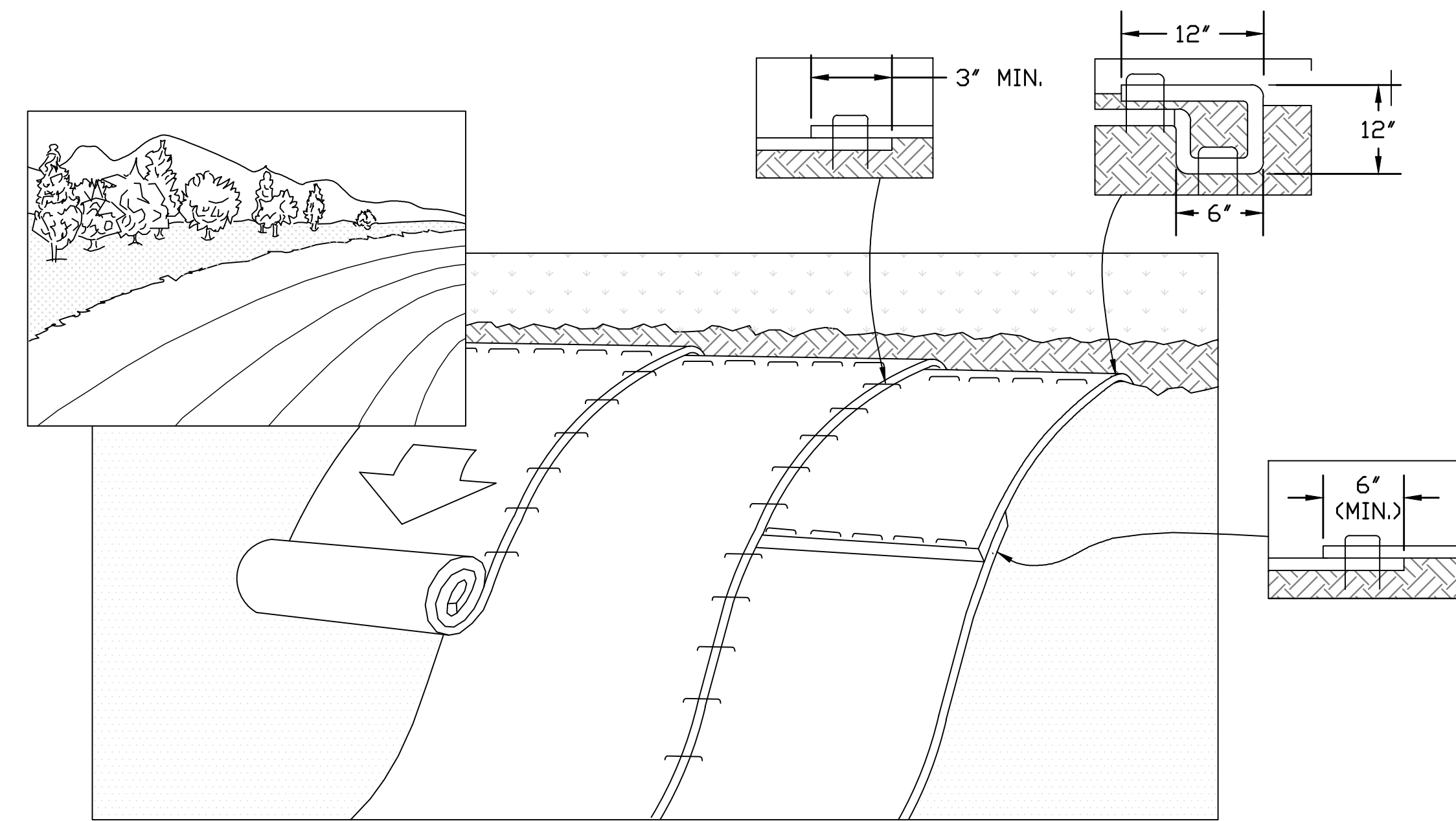
**8 ASPHALT PAVEMENT DETAIL**  
NO SCALE



SEDIMENT BASIN SCHEDULE

BASIN #	TOP BERM ELEV. (FT)	EMERGENCY SPILLWAY ELEV. (FT)	TOP OF RISER (FT)	BERM WIDTH (FT)	RISER SIZE (IN)	BARREL SIZE (IN)	BARREL INV. IN ELEV. (FT)	BARREL SLOPE (%)	RISER ORIFICE INV. (FT)	BASIN LENGTH (FT)	BASIN WIDTH (FT)	BASIN BOTTOM ELEV. (FT)
SB-1	47	N/A	45.50	N/A	48 X 48	24	42.50	0.50	43	250	65	42.00

**10 SEDIMENT BASIN**  
NO SCALE

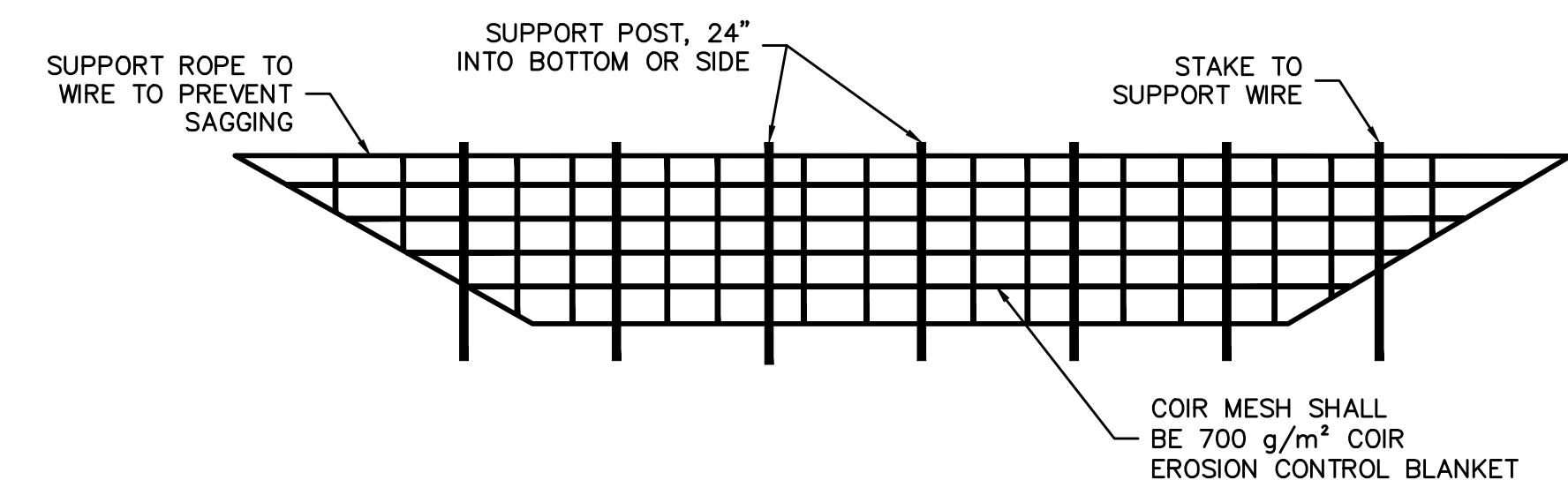
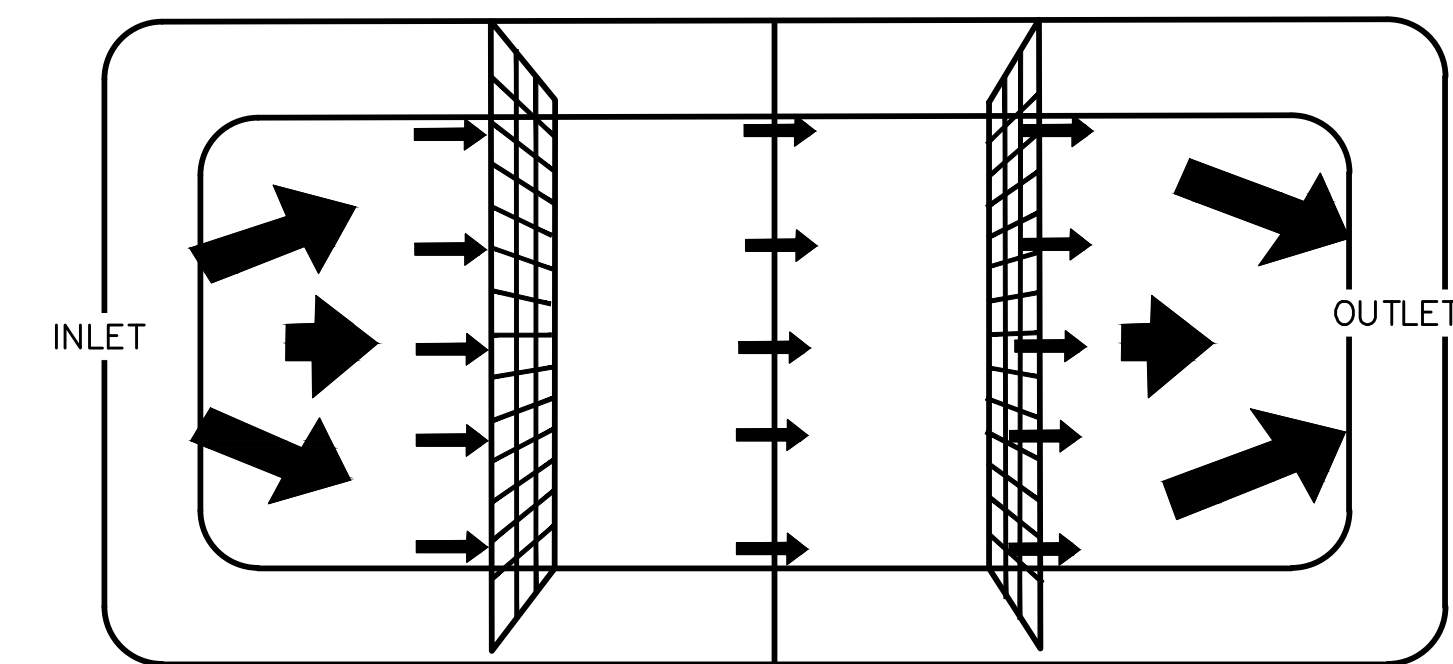


**GENERAL NOTES:**

1. TEMPORARY MATTING INSTALLED ON SLOPES SHALL BE NORTH AMERICAN GREEN TYPE DS 75 OR ENGINEER APPROVED EQUIVALENT.
2. IF SEEDING PRIOR TO INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), FOLLOW SEED BED PREPARATION STEPS, AND APPLY APPROVED TYPES AND QUANTITIES OF LIME, FERTILIZER, AND SEED.
3. BEGIN AT THE TOP OF THE SLOPE BY PLACING THE RECP'S 2-3 FEET OVER THE TOP OF THE SLOPE. ANCHOR THE RECP'S IN A 12" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. AFTER STAPLING THE RECP'S IN THE TRENCH, BACKFILL AND COMPACT WITH SOIL. THE RECP'S EXTENDING PAST THE COMPACTED TRENCH SHOULD BE LAPPED ACROSS THE TRENCH AND STAPLED/STAKED TO THE RECP'S EXTENDING DOWNSLOPE. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
4. ROLL THE RECP'S DOWN OR ALONG THE SLOPE MAINTAINING DIRECT CONTACT BETWEEN THE SOIL AND RECP. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. SECURELY FASTENED THE RECP'S TO SOIL SURFACE BY PLACING STAPLES/STAKES IN A 3 FOOT CENTER-TO-CENTER PATTERN, AS WELL AS IN THE APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
5. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH A MINIMUM OF 3" OVERLAP DEPENDING ON RECP'S TYPE. STAPLES/STAKES SHOULD BE PLACED A MAXIMUM OF 5" APART ALONG OVERLAP.
7. CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH A MINIMUM 6" OVERLAP.
8. AT THE TOE OF THE SLOPE, EXTEND THE RECP'S ON THE LEVEL SURFACE SO A MINIMUM OF 4" OF RECP CAN BE TURNED UNDER. STAPLE THE TURNED END AT 12" INTERVALS.

NOTE: \*MINIMUM STAPLE SIZE IS 6" LONG BY 1" WIDE, MINIMUM STAKE LENGTH IS 12". DEPENDING ON SOIL CONDITIONS, LARGER STAKES MAY BE REQUIRED.

**9 EROSION CONTROL MATTING**  
NO SCALE



**11 POROUS BAFFLE**  
NO SCALE

APPROVED BY THE PLANNING AND ZONING COMMISSION  
Site Plan # \_\_\_\_\_  
Description \_\_\_\_\_  
Project Location \_\_\_\_\_  
Owner \_\_\_\_\_  
Applicant \_\_\_\_\_  
Approved by the Commission on this date \_\_\_\_\_  
Signed Chairman/Secretary \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
Work Completion Date \_\_\_\_\_

NO.	REVISION	DATE

SHEET TITLE: **DETAILS & SECTIONS 2**  
PROJECT TITLE: **ASP COMPOST FACILITY**  
**132 ROUTE 12**  
**TOWN OF PRESTON, CONN**

CLIENT: **SOUTHEAST CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY**  
**7 HURLBUTT ROAD**  
**GALES FERRY, CONNECTICUT 06335**

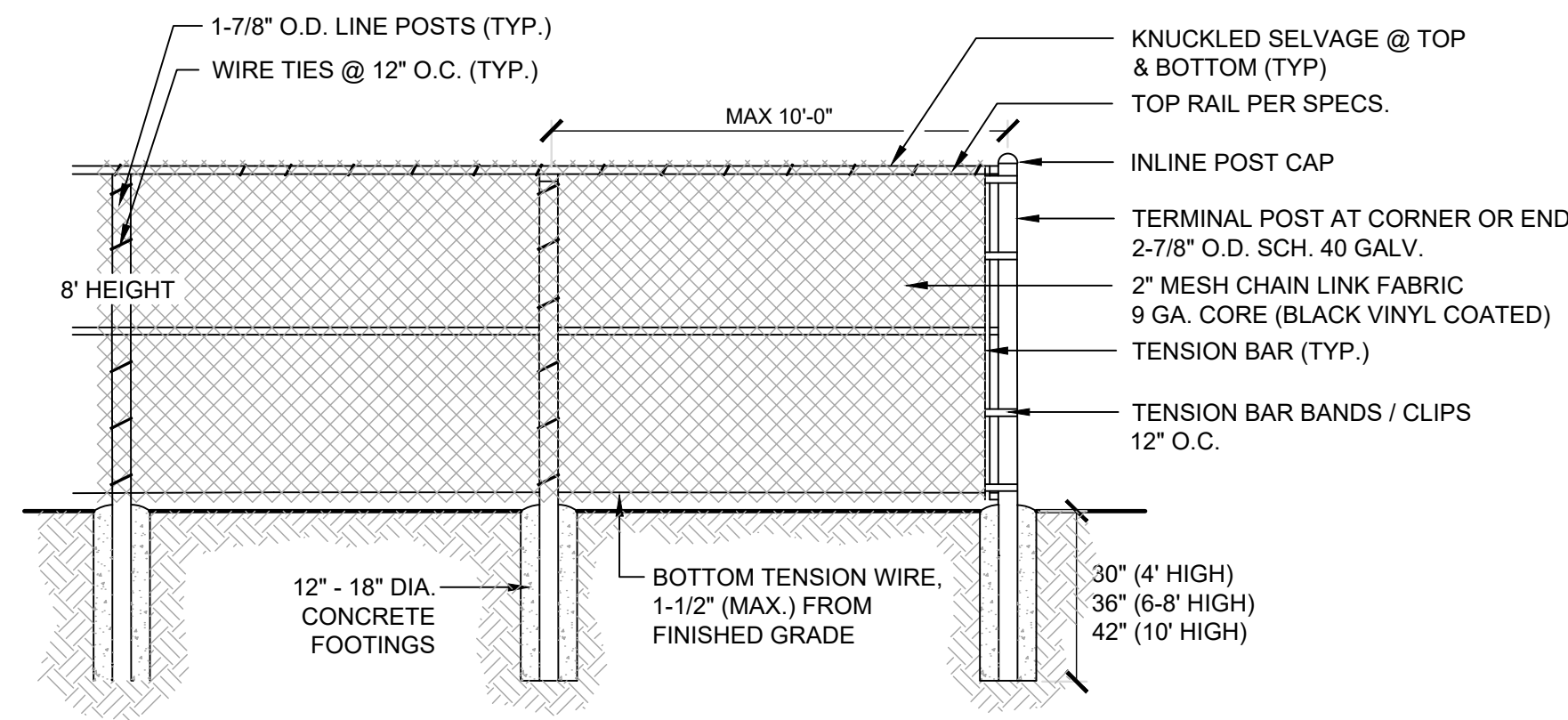
**SCS ENGINEERS**  
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.  
4 EXECUTIVE BLDG. SUITE 305, SUFFERN, NY 10901  
PH. (845) 357-1510 FAX. (845) 357-1049  
DRAWN BY: SHY  
CHECKED BY: MJB  
APP. BY: GPM  
DATE: 11/28/23

CADD FILE: 2-8 SITE PLAN and DETAILS  
DATE: 11/28/23  
SCALE: AS SHOWN  
DRAWING NO. 7 of 8

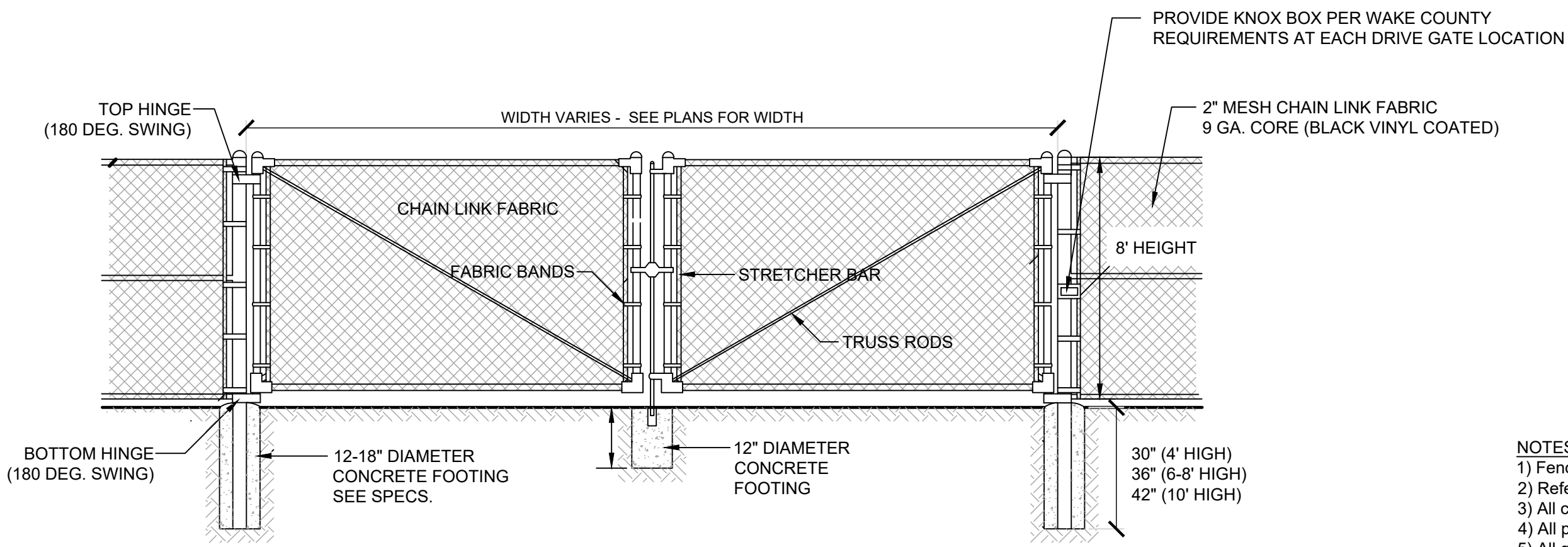


# PERMIT SET 11/28/23

## NOT FOR CONSTRUCTION

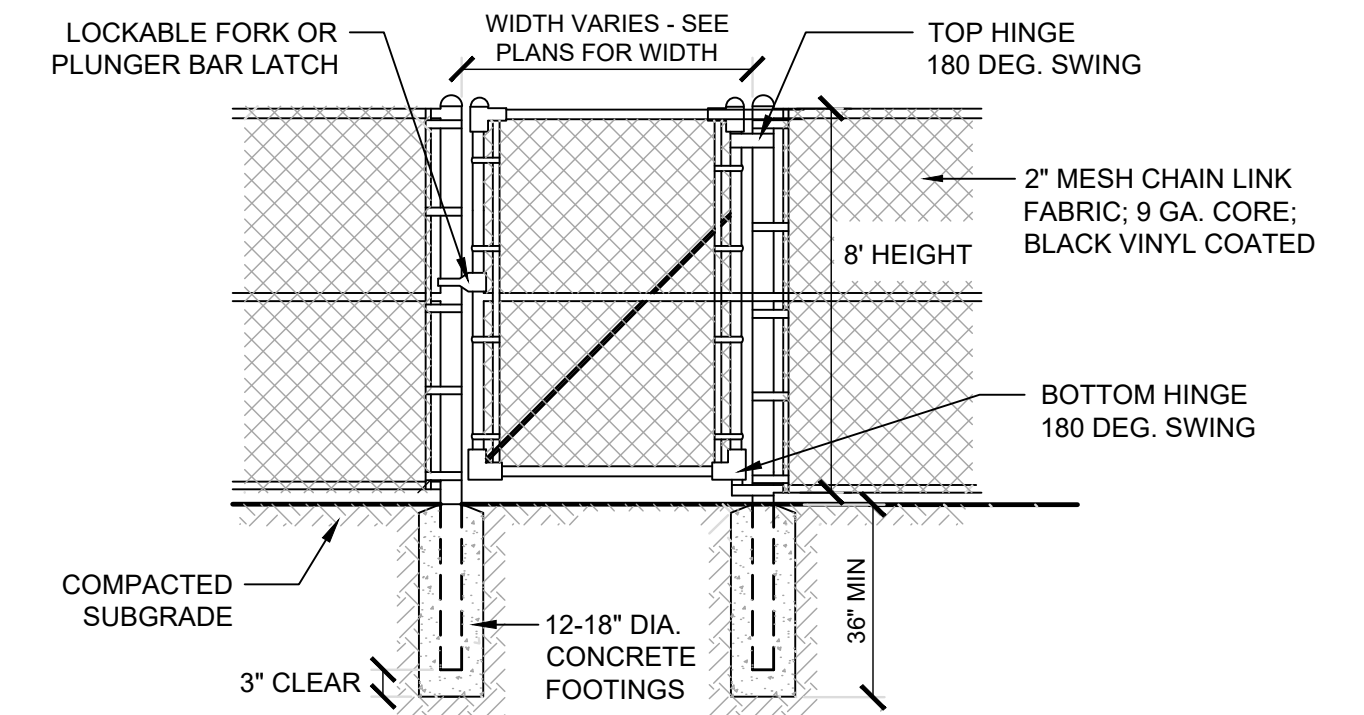


12 8-FT CHAINLINK SECURITY FENCE  
NO SCALE



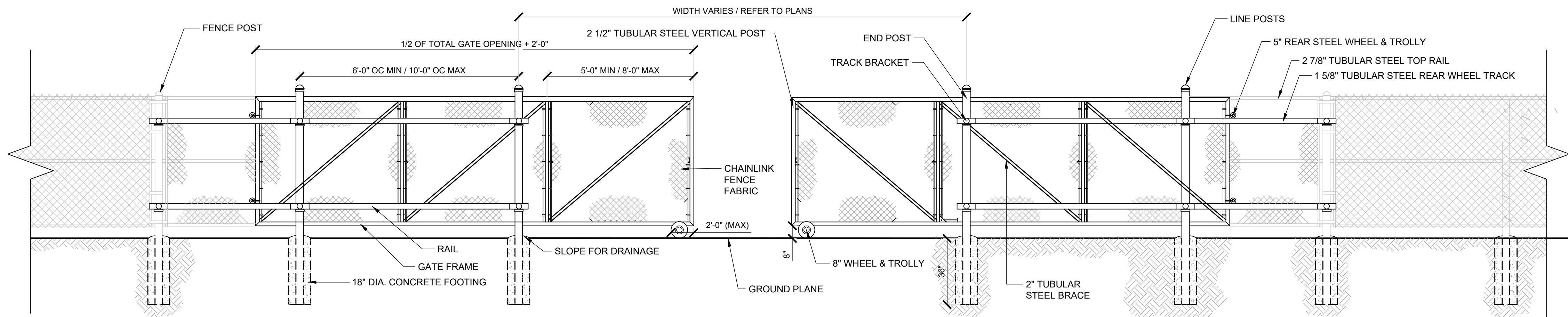
- NOTES:
- Fence fabric shall be secured to gate frames with knuckled selvage along all edges for all types chain link fence installations.
  - All concrete footings around posts at ground line shall be mounded & sloped for positive drainage.
  - All posts & hardware to be hot dipped galvanized schedule 40.
  - All gates to be secured with 3/8\" chain and Everlock System (10-SLC-4). Owner to provide padlocks.

13 CHAINLINK FENCE SWING GATE  
NO SCALE



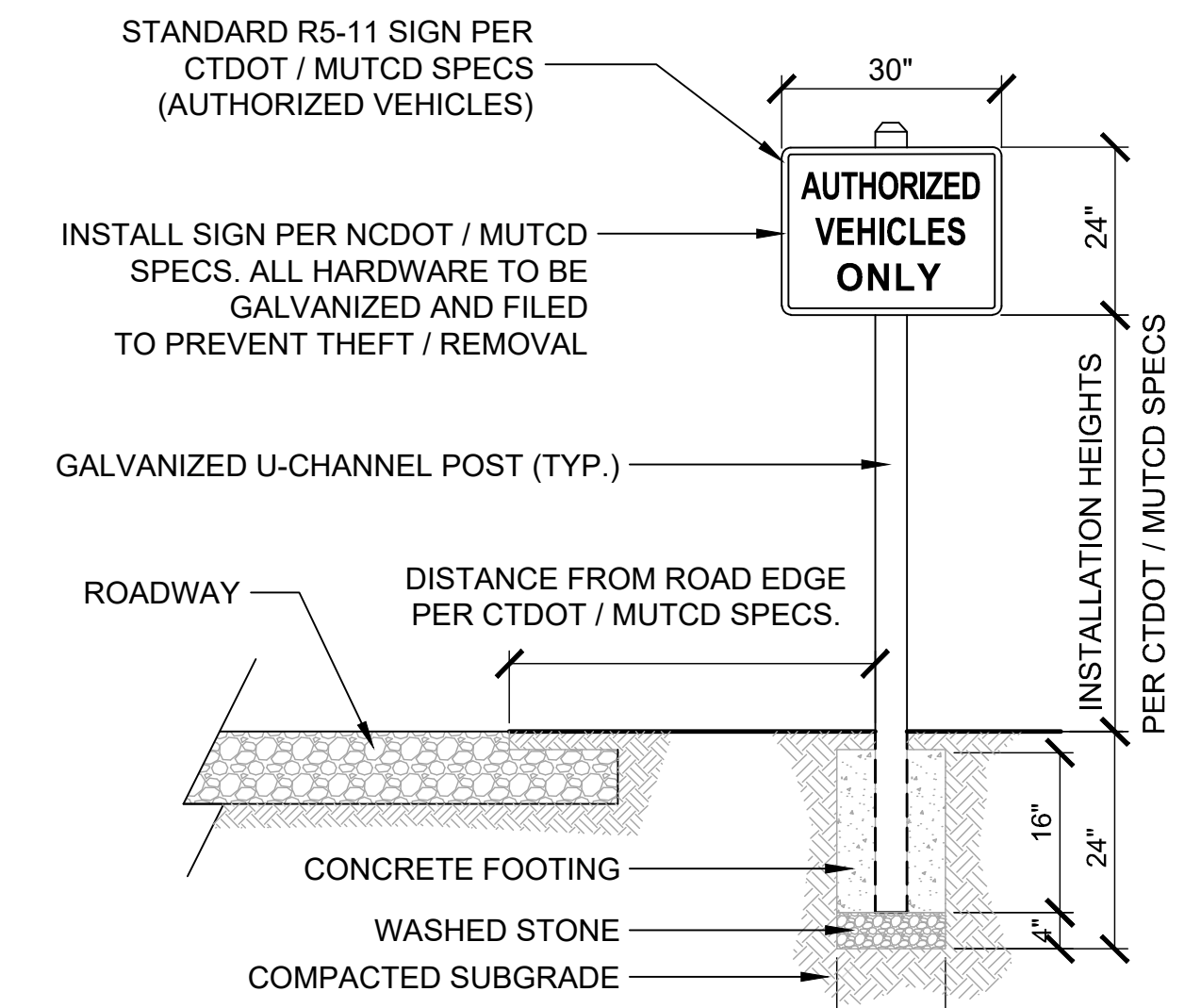
- NOTES:
- Fence fabric shall be secured to gate frames with knuckled selvage along all edges for all types chain link fence installations.
  - Refer to specifications for all pipe sizing, wire fabric gauges and all other information.
  - All concrete footings around posts at ground line shall be mounded & sloped for positive drainage.
  - All posts & hardware to be hot dipped galvanized Sch. 40.
  - All gates to be secured with 3/8\" chain and Everlock System (10-SLC-4). Owner to provide padlocks.

14 PEDESTRIAN FENCE GATE  
NO SCALE

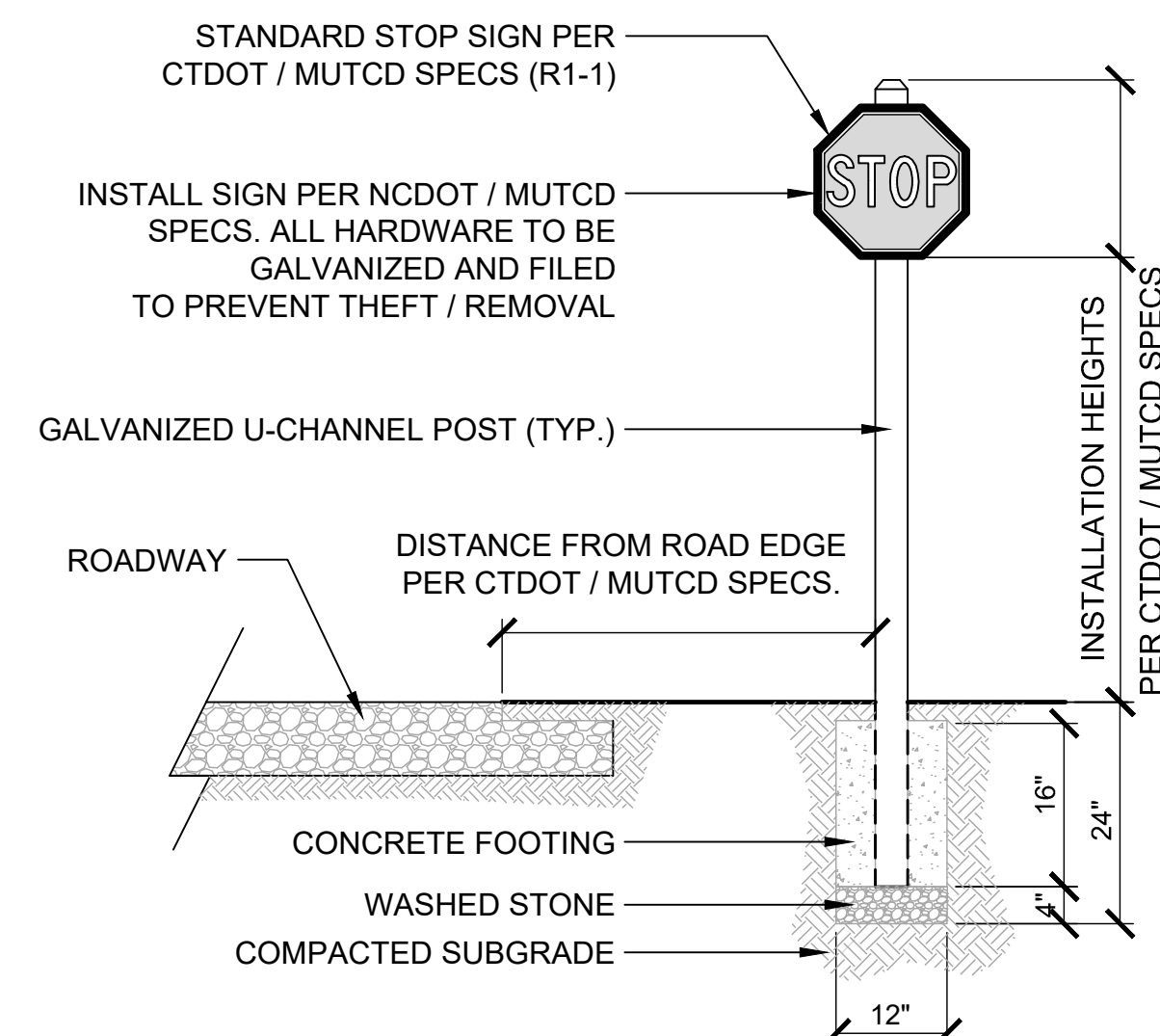


- NOTES:
- Contractor to provide shop drawings for approval prior to fabrication and installation.
  - Reference chainlink fence detail for fence construction.
  - All posts and hardware to be hot-dipped galvanized.
  - Fence fabric to be black vinyl-coated.
  - All concrete footings around posts at ground line shall be mounded & sloped for positive drainage.
  - Gates to be secured with 3/8\" chain and Everlock System (10-SLC-4). Owner to provide padlocks.
  - End posts to be 2'-0\" behind curb.

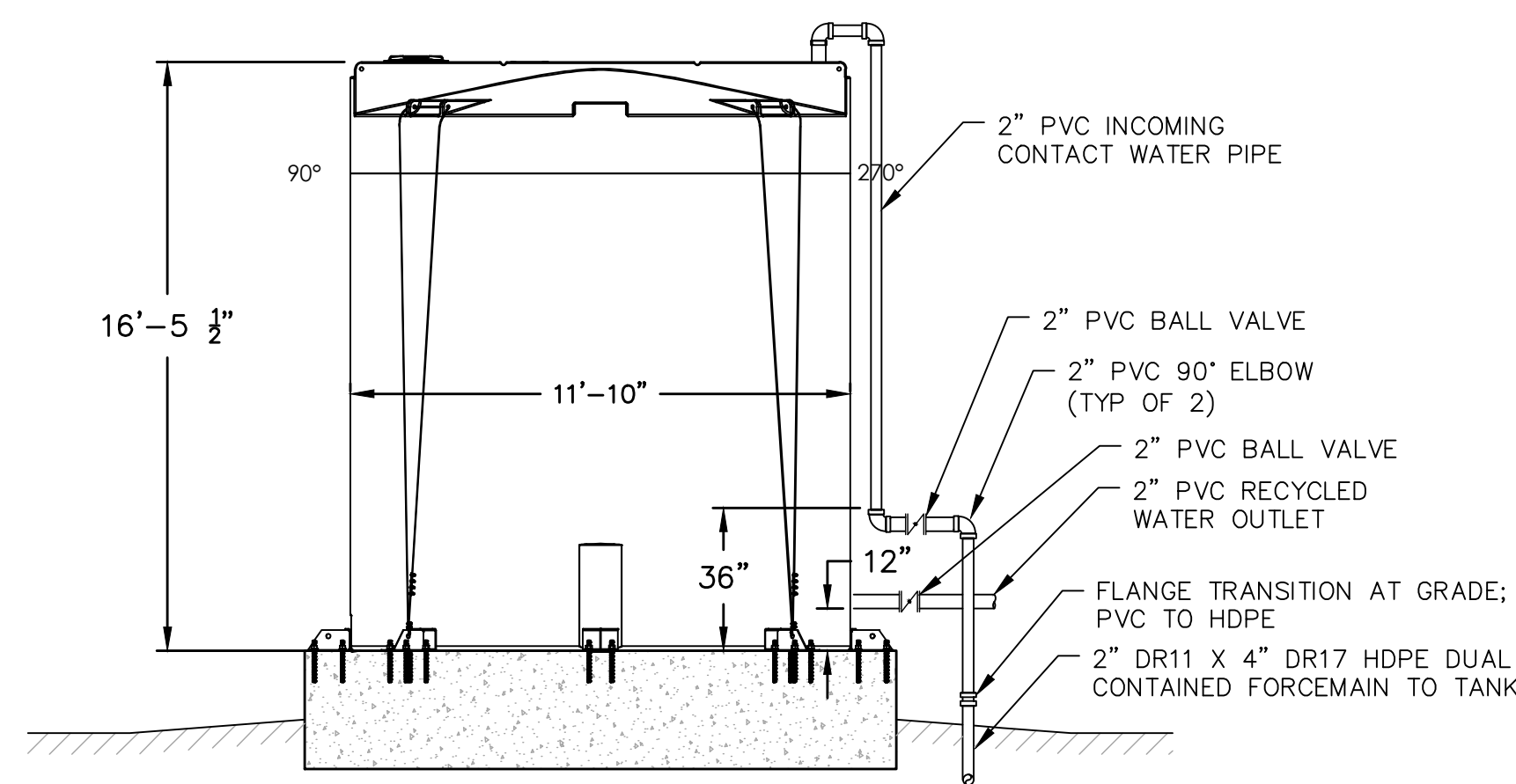
15 ROLLING FENCE GATE  
NO SCALE



16 AUTHORIZED VEHICLES SIGN  
NO SCALE

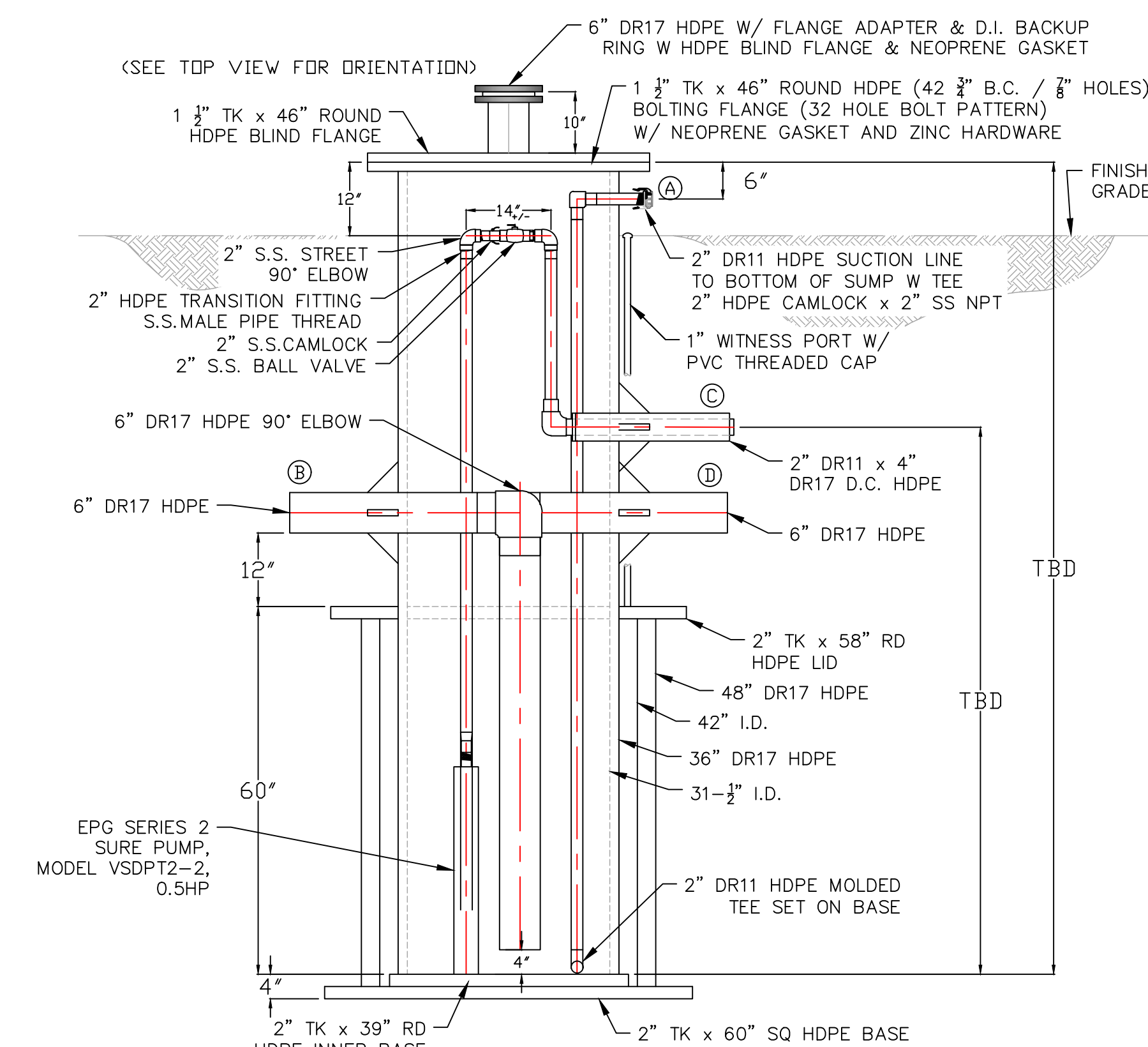


17 STOP SIGN  
NO SCALE



TANK GAL	TANK DIA.	ANCHOR QTY	ANCHOR BOLT	QTY	EMBEDMENT	CABLE	CONCRETE
12500	142"	DO07827	1\"/>				

18 TANK SECTION  
NO SCALE



19 SUMP SECTION  
NO SCALE

APPROVED BY THE PLANNING AND ZONING COMMISSION

Site Plan # \_\_\_\_\_  
Description \_\_\_\_\_

Project Location \_\_\_\_\_

Owner \_\_\_\_\_  
Applicant \_\_\_\_\_  
Approved by the Commission on this date \_\_\_\_\_

Signed Chairman/Secretary \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
Work Completion Date \_\_\_\_\_


NO.	REVISION	DATE

SHEET TITLE: DETAILS & SECTIONS 3  
PROJECT TITLE: ASP COMPOST FACILITY  
132 ROUTE 12  
TOWN OF PRESTON, CONN

CLIENT: SCS ENGINEERS  
SOUTHEAST CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY  
7 HURLBUTT ROAD  
GALES FERRY, CONNECTICUT 06335

CADD FILE: 2-8\_SITE PLAN and DETAILS  
DATE: 11/28/23  
SCALE: AS SHOWN  
DRAWING NO. 8 of 8





# Appendix C

## Supporting Calculations

*Stormwater  
Calculation 1  
Rational Method Runoff*

Goal

Determine peak rate of runoff and runoff volume using The Rational Method, for use in the design

Background and Diagrams

$Q_p =$  Peak rate of runoff in feet cubed per second  $= CiC_aA$

$$C = \sum_1^n C_1 \frac{\text{Area } C_1}{\text{Total Area}} + C_2 \frac{\text{Area } C_2}{\text{Total Area}} + \dots + C_n \frac{\text{Area } C_n}{\text{Total Area}} \quad (\text{Table 1})$$

$C_a =$  Antecedent moisture factor (Table 2)

$A =$  Drainage area in acres

$i =$  Average intensity in inches per hour of rainfall for the time of concentration (Table 3)

$$t_c = t_{c,\text{overland}} + t_{c,\text{shallow conc.}} + t_{c,\text{channel}}$$

$$t_{c,\text{overland}} = \frac{0.007(nL)^{0.8}}{P_2^{0.5} + S^{0.4}} \cdot \frac{60 \text{ min}}{1 \text{ hour}}$$

$P_2 =$  2 year, 24 hour rainfall depth in inches (Table 4)

$L =$  length of section in feet

$n =$  Manning's roughness coefficient (Table 5)

$S =$  slope in feet per feet

$$t_{c,\text{shallow conc.}} \text{ and } t_{c,\text{channel}} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}}$$

$L =$  length of section in feet

$V_{\text{shallow conc.}} =$  average velocity in feet per second  $= KS^{0.5}$

$K =$  conversion factor: 16.1345 (unpaved); 20.3284 (paved)

$S =$  slope in feet per feet

$$V_{\text{channel}} = \text{average velocity in feet per second} = \frac{C_m R^{2/3} S^{1/2}}{n}$$

$C_m =$  conversion factor, 1.49 for Imperial Units

$R =$  hydraulic radius in feet  $= \frac{A}{P}$

$$\left. \begin{array}{l} A = \text{cross sectional flow area in feet squared} = zy^2 \\ P = \text{wetted perimeter in feet} = 2y\sqrt{1+z^2} \end{array} \right\} R = \frac{zy}{2\sqrt{1+z^2}}$$

$S =$  slope of the grade line in feet per feet

$n =$  Manning's roughness coefficient

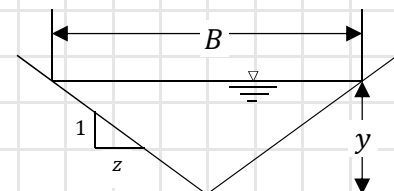
$$Q_v = \text{runoff volume} = \frac{(P - 0.2S)^2}{P + 0.8S}$$

$P =$  rainfall depth in inches (Table 3)

$S =$  potential maximum retention after runoff begins (inches)

$$S = \frac{1000}{CN} - 10$$

$CN =$  Composite Curve Number



Triangular  
Channel

Pre-Development

$$t_c = t_{c,overland} + t_{c,shallow conc.} + t_{c,channel}$$

$$t_{c,overland} = \frac{0.007(nL)^{0.8}}{P_2^{0.5}S^{0.4}} \cdot \frac{60 \text{ min}}{1 \text{ hour}}$$

$$n = 0.13$$

$$L = 300 \text{ ft}$$

$$P_2 = 3.46 \text{ in}$$

$$S = 0.02 \text{ ft/ft}$$

$$t_{c,overland} = 20.237 \text{ min}$$

$$t_{c,shallow conc.} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}}$$

$$L_{unpaved} = 180 \text{ ft}$$

$$L_{paved} = 0 \text{ ft}$$

$$V_{shallow conc.} = KS^{0.5}$$

$$S_{unpaved} = 0.02 \text{ ft/ft}$$

$$S_{paved} = 0.00 \text{ ft/ft}$$

$$V_{shallow conc.} = 2.282 \text{ ft/s}$$

$$t_{c,shallow conc.} = 1.315 \text{ min}$$

$$t_{c,channel} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}}$$

$$L_{channel} = 0 \text{ ft}$$

$$V_{channel} = \frac{C_m R^{2/3} S^{1/2}}{n}$$

$$R = \frac{zy}{2\sqrt{1+z^2}}$$

$$z = 3.0 \text{ ft}$$

$$y = 1.5 \text{ ft}$$

$$R = 0.712 \text{ ft}$$

$$S = 0.016 \text{ ft/ft}$$

$$n = 0.015$$

$$V_{channel} = 10.01 \text{ ft/s}$$

$$t_{c,channel} = 0.000 \text{ min}$$

$$t_c = (20.237 \text{ min}) + (1.315 \text{ min}) + (0.000 \text{ min}) = \boxed{21.552 \text{ min}}$$

$$Q_p = CiC_aA$$

*Composite Runoff Coefficient (C)*

Land Use	Area (ft <sup>2</sup> )	Soil Group	Slope	C	C <sub>composite</sub>
Lawns	426,661.5	B	3.00	0.12	0.12
N/A	N/A	N/A	N/A	N/A	

*Peak Runoff (Q<sub>p</sub>)*

Recurrence Interval (years)	Intensity, i (in/hr)	Composite Runoff Coefficient, C	Area, A (acres)	Antecedent Moisture Factor, C <sub>a</sub>	Peak Runoff, Q <sub>p</sub> (ft <sup>3</sup> /s)
2	2.37	0.12	9.79	1.00	2.7863
5	2.99			1.00	3.5130
10	3.51			1.00	4.1258
25	4.23			1.10	5.4630
50	4.76			1.20	6.7092
100	5.32			1.25	7.8218

Pre-Development

$$Q_v = \frac{(P - 0.2S)^2}{P + 0.8S}$$

$$S = \frac{1000}{CN} - 10$$

*Composite Curve Number*

Land Use	Area (ft <sup>2</sup> )	Soil Group	CN	Composite CN
Lawns	426,661.5	B	43.00	43.00
N/A	N/A	N/A	N/A	

*Runoff Volume (Q<sub>v</sub>)*

Recurrence Interval (years)	Composite Curve Number, CN	S (inches)	Precipitation, P (inches)	Runoff Volume, Q <sub>v</sub> (inches)
2	43.00	13.26	3.46	0.05
5			4.36	0.20
10			5.11	0.38
25			6.14	0.73
50			6.91	1.04
100			7.73	1.41

Post-Construction

$$t_c = t_{c,overland} + t_{c,shallow conc.} + t_{c,channel}$$

$$t_{c,overland} = \frac{0.007(nL)^{0.8}}{P_2^{0.5}S^{0.4}} \cdot \frac{60 \text{ min}}{1 \text{ hour}}$$

$$n = 0.13$$

$$L = 300 \text{ ft}$$

$$P_2 = 3.46 \text{ in}$$

$$S = 0.02 \text{ ft/ft}$$

$$t_{c,overland} = 20.237 \text{ min}$$

$$t_{c,shallow conc.} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}}$$

$$L_{unpaved} = 0 \text{ ft}$$

$$L_{paved} = 15 \text{ ft}$$

$$V_{shallow conc.} = KS^{0.5}$$

$$S_{unpaved} = 0.02 \text{ ft/ft}$$

$$S_{paved} = 0.02 \text{ ft/ft}$$

$$V_{shallow conc.} = 2.875 \text{ ft/s}$$

$$t_{c,shallow conc.} = 0.087 \text{ min}$$

$$t_{c,channel} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}}$$

$$L_{channel} = 115 \text{ ft}$$

$$V_{channel} = \frac{C_m R^{2/3} S^{1/2}}{n}$$

$$R = \frac{2B^2y}{3B^2 + 8y^2}$$

$$z = 3.0 \text{ ft}$$

$$y = 1.5 \text{ ft}$$

$$R = 0.712 \text{ ft}$$

$$S = 0.016 \text{ ft/ft}$$

$$n = 0.015$$

$$V_{channel} = 10.01 \text{ ft/s}$$

$$t_{c,channel} = 0.191 \text{ min}$$

$$t_c = (20.237 \text{ min}) + (0.087 \text{ min}) + (0.191 \text{ min}) = \boxed{20.516 \text{ min}}$$

$$Q_p = CiC_aA$$

*Composite Runoff Coefficient (C)*

Land Use	Area (ft <sup>2</sup> )	Soil Group	Slope	C	C <sub>composite</sub>
Lawns	52,118.2	B	3.00	0.12	0.65
Paved	190,825.7	B	N/A	0.80	

*Peak Runoff (Q<sub>p</sub>)*

Recurrence Interval (years)	Intensity, i (in/hr)	Composite Runoff Coefficient, C	Area, A (acres)	Antecedent Moisture Factor, C <sub>a</sub>	Peak Runoff, Q <sub>p</sub> (ft <sup>3</sup> /s)
2	2.43	0.65	5.58	1.00	8.8499
5	3.06			1.00	11.1584
10	3.59			1.00	13.1058
25	4.32			1.10	17.3529
50	4.87			1.20	21.3112
100	5.45			1.25	24.8447



Post-Construction

$$Q_v = \frac{(P - 0.2S)^2}{P + 0.8S}$$

$$S = \frac{1000}{CN} - 10$$

*Composite Curve Number*

Land Use	Area (ft <sup>2</sup> )	Soil Group	CN	Composite CN
Lawns	52,118.2	B	43.00	86.20
Paved	190,825.7	B	98.00	

*Runoff Volume (Q<sub>v</sub>)*

Recurrence Interval (years)	Composite Curve Number, CN	S (inches)	Precipitation, P (inches)	Runoff Volume, Q <sub>v</sub> (inches)
2	86.20	1.60	3.46	2.08
5			4.36	2.89
10			5.11	3.59
25			6.14	4.56
50			6.91	5.30
100			7.73	6.09

## Attachment: Reference Tables

Table 1 - Recommended Runoff Coefficient

<b>By Selected Hydrologic Soil Groupings And Slope Ranges</b>				
Slope	A	B	C	D
Flat (0-1%)	0.04 - 0.09	0.07 - 0.12	0.11 - 0.16	0.15 - 0.20
Average (2-6%)	0.09 - 0.14	0.12 - 0.17	0.16 - 0.21	0.20 - 0.25
Steep (>6%)	0.13 - 0.18	0.18 - 0.24	0.23 - 0.31	0.28 - 0.38
<b>By Land Use</b>				
Description of Area		Runoff Coefficients		
Business:	Downtown Areas	0.70 - 0.95		
	Neighborhood Areas	0.50 - 0.70		
Residential:	Single-Family Areas	0.30 - 0.50		
	Multi Units, detached	0.40 - 0.60		
	Multi Units, attached	0.60 - 0.75		
	Suburban	0.25 - 0.40		
Residential (1.2 acre lots or more)		0.30 - 0.45		
Apartment Dwelling Areas		0.50 - 0.70		
Industrial:	Light Areas	0.50 - 0.80		
	Heavy Areas	0.60 - 0.90		
Parks, Cemeteries		0.10 - 0.25		
Playgrounds		0.20 - 0.40		
Railroad Yard Areas		0.20 - 0.40		
Unimproved Areas		0.10 - 0.30		
<b>By Impervious Surface Type</b>				
Description of Area		Runoff Coefficients		
Street:	Asphalt	0.70 - 0.95		
	Concrete	0.80 - 0.95		
Drives and Walks		0.75 - 0.85		
Roofs		0.75 - 0.95		

Table 2 - Antecedent Moisture Factors

Recurrence Interval (years)	Antecedent Moisture Factor ( $C_a$ )
2 to 10	1.0
25	1.1
50	1.2
100	1.25

Notes:

- (1) Runoff coefficients from Tables 6-3, 6-4, and 6-5 of the Connecticut Department of Transportation Drainage Manual (2000).
- (2) Antecedent Moisture Factors from Table 6-2 of the Connecticut Department of Transportation Drainage Manual (2000).

Table 3 - Precipitation Intensity (in/hr)

Recurrence Interval (years)	Duration (minutes)									
	<i>0-min</i>	<i>10-min</i>	<i>15-min</i>	<i>30-min</i>	<i>60-min</i>	<i>2-hr</i>	<i>3-hr</i>	<i>6-hr</i>	<i>12-hr</i>	<i>24-hr</i>
	0	10	15	30	60	120	180	360	720	1440
1	0.000	2.900	2.280	1.610	1.040	0.681	0.526	0.335	0.206	0.121
2	0.000	3.460	2.720	1.920	1.240	0.811	0.626	0.397	0.244	0.144
5	0.000	4.380	3.430	2.420	1.560	1.020	0.789	0.499	0.306	0.182
10	0.000	5.140	4.030	2.840	1.830	1.200	0.924	0.584	0.357	0.213
25	0.000	6.180	4.850	3.420	2.210	1.440	1.110	0.701	0.428	0.256
50	0.000	6.970	5.460	3.850	2.490	1.620	1.250	0.788	0.481	0.288
100	0.000	7.790	6.110	4.310	2.780	1.820	1.400	0.880	0.537	0.322

Table 4 - Precipitation Depth (inches)

Recurrence Interval (years)	Duration (minutes)									
	<i>0-min</i>	<i>10-min</i>	<i>15-min</i>	<i>30-min</i>	<i>60-min</i>	<i>2-hr</i>	<i>3-hr</i>	<i>6-hr</i>	<i>12-hr</i>	<i>24-hr</i>
	0	10	15	30	60	120	180	360	720	1440
1	0.000	0.483	0.569	0.804	1.040	1.360	1.580	2.000	2.480	2.910
2	0.000	0.577	0.679	0.958	1.240	1.620	1.880	2.380	2.940	3.460
5	0.000	0.730	0.858	1.210	1.560	2.050	2.370	2.990	3.680	4.360
10	0.000	0.856	1.010	1.420	1.830	2.400	2.780	3.500	4.300	5.110
25	0.000	1.030	1.210	1.710	2.210	2.880	3.340	4.200	5.150	6.140
50	0.000	1.160	1.370	1.930	2.490	3.250	3.760	4.720	5.790	6.910
100	0.000	1.300	1.530	2.150	2.780	3.630	4.200	5.270	6.470	7.730

Notes:

- (1) Precipitation frequency estimates from NOAA Precipitation Frequency Data Server.

Table 5 - Manning's Roughness Coefficient for Overland Sheet Flow

<b>n</b>	<b>Surface Description</b>
0.011	Smooth asphalt
0.012	Smooth concrete
0.05	Fallow (no residue)
Cultivated Soils	
0.06	Residue Cover = 20%
0.17	Residue Cover >20%
0.13	Range (natural)
Grass	
0.15	Short grass prairie
0.24	Dense grasses
0.41	Bermuda grass
Woods	
0.4	Light underbrush
0.8	Dense underbrush

Notes:

- (1) Roughness coefficients from Table 3-1 of the TR-55 Manual (Second Ed., June 1986).

*Stormwater  
Calculation 2  
Temporary Sediment Basin*

Goal

Determine the minimum detention storage volume required below the crest of a Temporary Sediment Basin, using guidance from the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control.

Background and Diagrams

$$V_T = \text{required sediment basin volume in acre-feet} = V + V_W + V_S$$

$$V = \text{sediment storage volume in acre-feet} = \frac{(DA)(A)(DR)(TE)(2,000 \text{ lb/ton})}{(\gamma)(43,560 \text{ ft}^2/\text{acre})}$$

$DA$  = total drainage area in acres

$A$  = average annual erosion in tons per acre from Figure SB-1

$DR$  = delivery ratio from Figure SB-12

$TE$  = trap efficiency, 0.8

$\gamma$  = sediment density in pounds per cubic foot from Figure SB-2

$$V_W = \text{wet storage volume in acre-feet} = 2 \times V$$

$V_S$  = detention storage volume from Figures SB-13 and DB-6

Determine  $\frac{Q_o}{Q_i}$  from Figure SB-13, where:

$Q_o$  = peak outflow from a 10-year, 24-hour storm in cubic feet per second

$Q_i$  = peak inflow from a 10-year, 24-hour storm in cubic feet per second

by using  $\frac{Q_i}{DA}$  and  $V_r$ , where:

$V_r$  = runoff volume from a 10-year, 24-hour storm in inches

Using the  $\frac{Q_o}{Q_i}$  value from Figure SB-13, calculate  $Q_o$  in cubic feet per second per square mile

$V_S$  can then be determined using Figure DB-6 with the calculated  $Q_o$  (cms) and  $V_r$  values.

$$W = \text{minimum width in feet of a sediment basin} = 10\sqrt{Q_5}$$

$Q_5$  = peak discharge from a 25-year frequency storm in cfs

$D$  = average depth in feet of a sediment basin  $\geq 4$  feet

Composite Curve Number

$$V_T = V + V_W + V_S$$

$$V = \text{sediment storage volume in acre-feet} = \frac{(DA)(A)(DR)(TE)(2,000 \text{ lb/ton})}{(\gamma)(43,560 \text{ ft}^2/\text{acre})}$$

*Weighted Erosion Rate (A)*

Land Use	Area			Erosion Rate
	(ft <sup>2</sup> )	(mi <sup>2</sup> )	(acres)	(ton/ac/yr)
Grassy Areas	52,118.2	0.0019	1.20	1
Construction Areas	190,825.7	0.0068	4.38	50

$\Sigma = 242,943.9$      $\Sigma = 0.0087$      $DA = 5.58$      $A = 39.49$

$DR = 37.0\%$

$TE = 0.80$

$\gamma = 90.0 \text{ lbs/ft}^3$

$V = 0.033 \text{ acre-ft}$

$V_W = 2 \times V = 0.067 \text{ acre-ft}$

*Release Rate (Q<sub>o</sub>)*

Recurrence Interval (years)	Peak Runoff, Q <sub>i</sub> (ft <sup>3</sup> /s)	Q <sub>i</sub> /A	Runoff Volume, V <sub>r</sub> (inches)	Q <sub>o</sub> /Q <sub>i</sub>	Release Rate, Q <sub>o</sub>	
					(ft <sup>3</sup> /s)	(csm)
10	13.1058	2.350	3.5900	0.0860	1.127	129.338

$V_S = 1.44 \text{ inches} = 0.669 \text{ acre-ft}$

$V_T = 0.033 \text{ ac-ft} + 0.067 \text{ ac-ft} + 0.669 \text{ ac-ft} = 0.769 \text{ acre-ft} = \mathbf{33,499 \text{ ft}^3, \text{ min.}}$

Design Basin Dimension

$W = 10\sqrt{Q_5}$

$Q_5 = 11.16 \text{ ft}^3/\text{s}$

$\text{Min. } W = 33.4 \text{ ft, min.}, \quad \text{Design } W = 65 \text{ ft, avg.}$

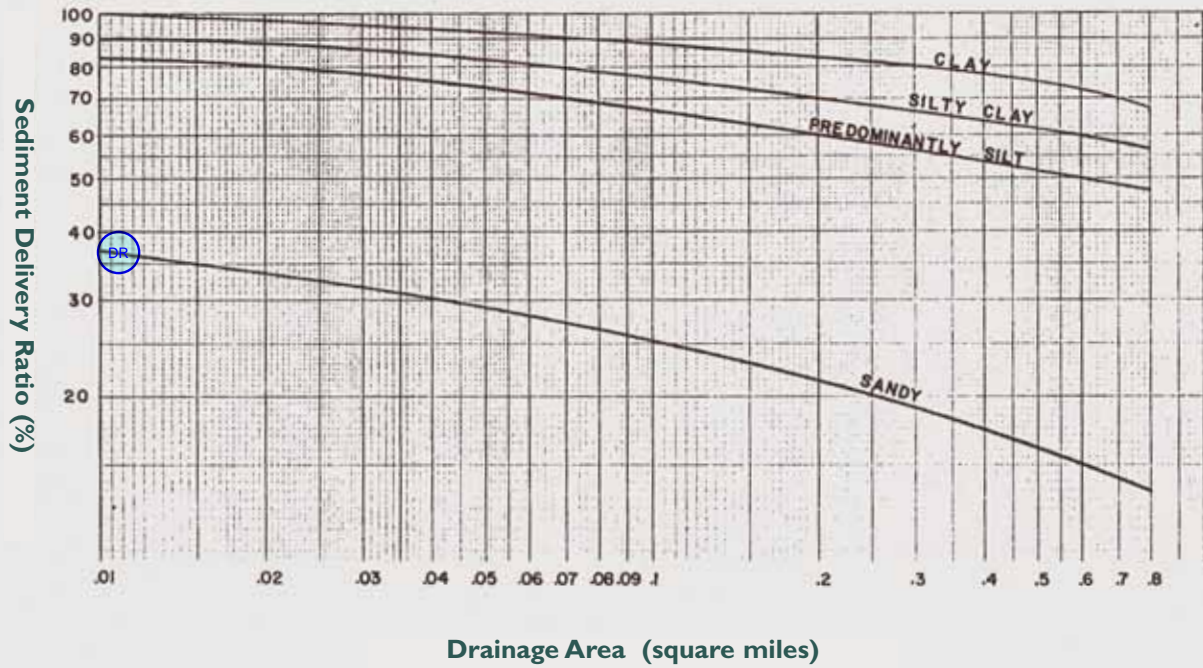
$D = 4.00 \text{ ft}$

$L = 257.7 \text{ ft}$

**Design Vol. = 36,700 ft<sup>3</sup> ✓**

# Attachment: E&SC Guideline Figures

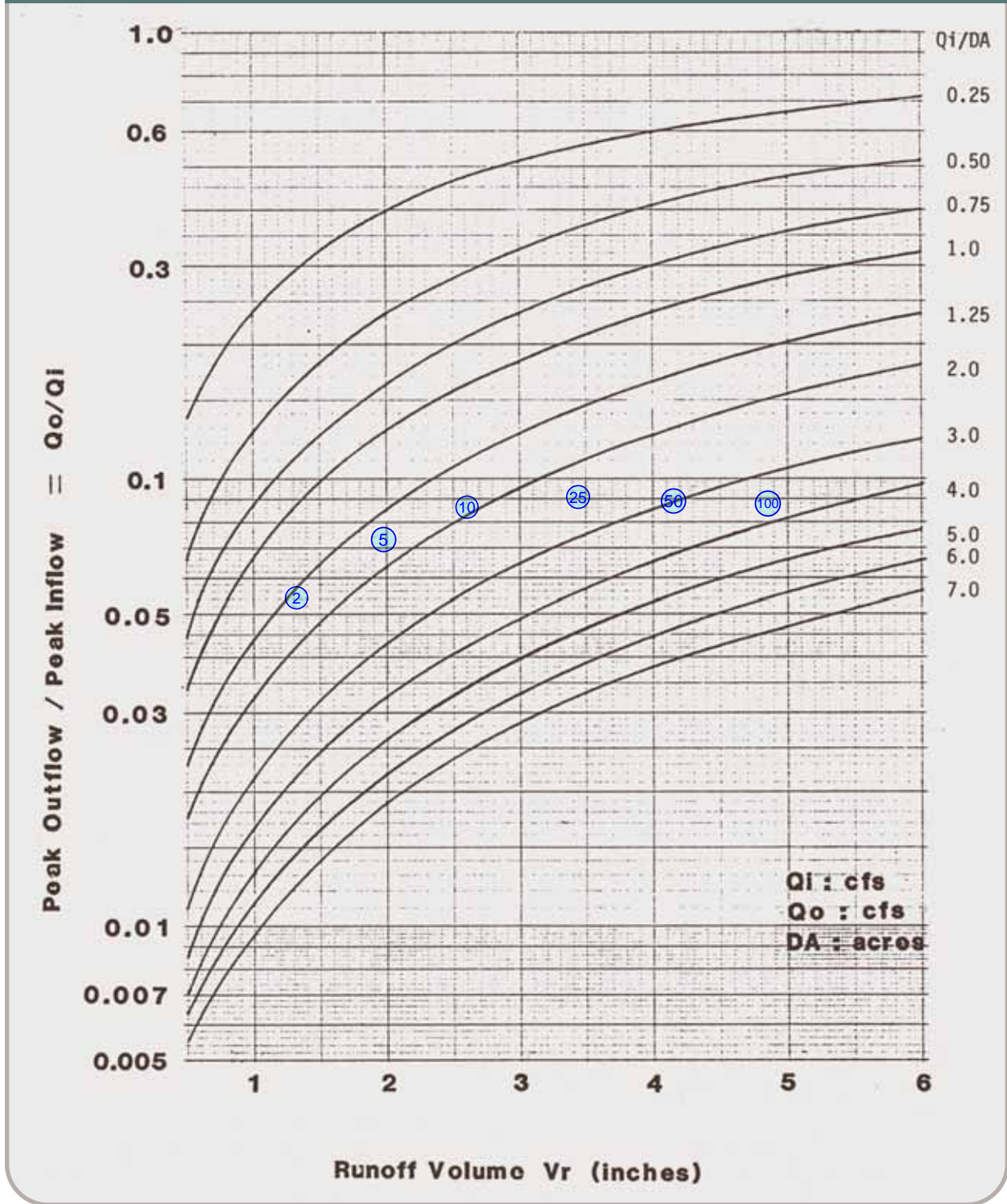
Figure SB-12 Sediment Delivery Ratio Vs. Drainage Area Graph



Source: USDA-NRCS

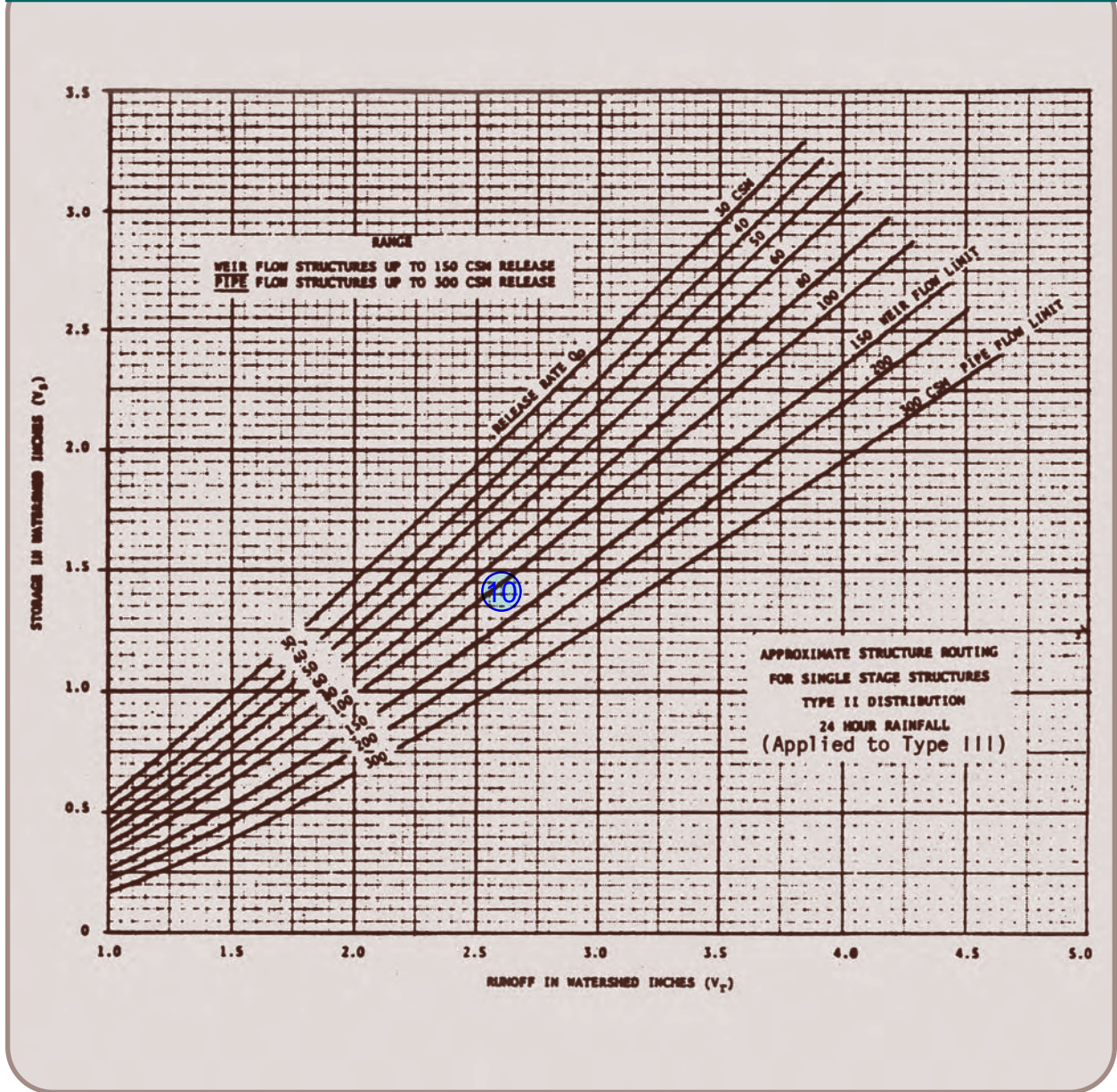


Figure SB-13 Maximum Peak Outflow for Detention Time Graph



Source: USDA-NRCS

Figure DB-6 Structure Routing Graph



Source: USDA-NRCS

*Stormwater  
Calculation 3  
Detention Pond*

Goal

Design a permanent detention pond to account for the minimum water quality volume as well as the peak runoff values given by the runoff calculations, using guidance from 2004 Connecticut Stormwater Quality Manual.

Background and Diagrams

$$WQV = \text{water quality volume in acre-feet} = \frac{(1 \text{ inch})(R)(A)}{(12 \text{ inches/ft})}$$

$$R = \text{volumetric runoff coefficient} = 0.05 + 0.009(I)$$

$I$  = percent impervious cover

$A$  = site area in acres

$$GRV = \text{groundwater recharge volume in acre-feet} = \frac{(D)(A)(I)}{(12 \text{ inches/ft})}$$

$D$  = depth of runoff to be recharged in inches from Table 7-4

$A$  = site area in acres

$I$  = change in site imperviousness from pre-development to post-construction in decimal form

$$RCV = \text{runoff capture volume in acre-feet} = WQV$$

Conveyance Protection = 10-year, 24-hour post-development peak flow =  $Q_{10}$

Peak Runoff Attenuation = 25-year, 24-hour and 100-year, 24-hour post-development peak flow



Detention Pond Sizing

$$WQV = \frac{(1 \text{ inch})(R)(A)}{(12 \text{ inches/ft})}$$

$$R = 0.05 + 0.009(I)$$

*Impervious Area (I)*

Land Use	Area			Ratio of Area (I)	
	(ft <sup>2</sup> )	(mi <sup>2</sup> )	(acres)	(%)	(decimal)
Pervious Areas	52,118.2	0.0019	1.20	21.45	0.21
Impervious Areas	190,825.7	0.0068	4.38	<b>78.55</b>	<b>0.79</b>

$\Sigma = 242,943.9$       $\Sigma = 0.0087$       $A = 5.58$

$$R = 0.76$$

$$WQV = 0.352 \text{ acre-ft}$$

$$GRV = \frac{(D)(A)(I)}{(12 \text{ inches/ft})}$$

$$D = 0.25 \text{ inches (Soil Group B)}$$

$$GRV = 0.091 \text{ acre-ft}$$

$$RCV = WQV = 0.352 \text{ acre-ft}$$

*Detention Pond Sizing Requirements*

Criterion	Requirement
Water Quality Volume	0.352 ac-ft
Groundwater Recharge Volume	0.091 ac-ft
Runoff Capture Volume	0.352 ac-ft
Conveyance Protection (10-year)	13.11 ft <sup>3</sup> /s
Peak Runoff Attenuation (25-year)	17.35 ft <sup>3</sup> /s
Peak Runoff (100-year)	21.31 ft <sup>3</sup> /s

$$V_T = 0.352 \text{ ac-ft} + 0.091 \text{ ac-ft} + 0.352 \text{ ac-ft} = 0.795 \text{ acre-ft} = \boxed{34,624 \text{ ft}^3, \text{ min.}}$$

**Design Vol. = 36,700 ft<sup>3</sup> ✓**

*Stormwater  
Calculation 4  
Hydraflow Express Models*

# Culvert Report

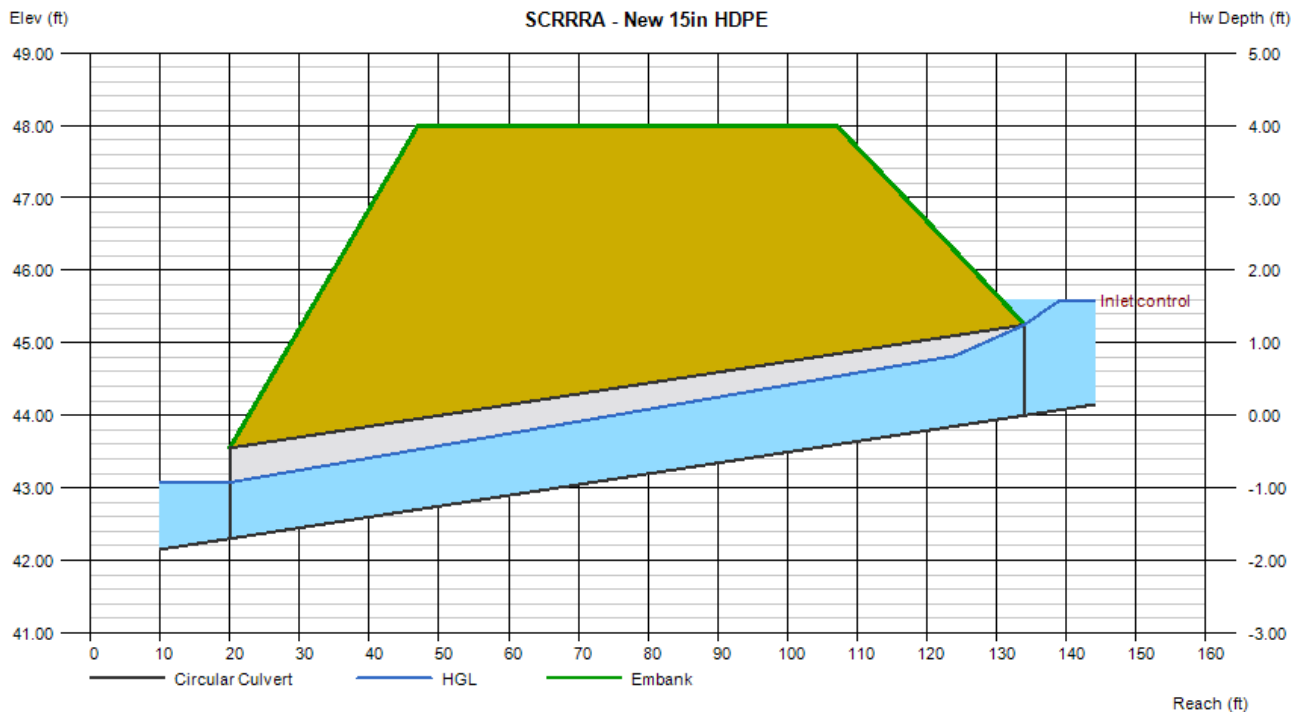
## SCRRA - New 15in HDPE

Invert Elev Dn (ft)	= 42.30
Pipe Length (ft)	= 114.00
Slope (%)	= 1.49
Invert Elev Up (ft)	= 44.00
Rise (in)	= 15.0
Shape	= Circular
Span (in)	= 15.0
No. Barrels	= 1
n-Value	= 0.012
Culvert Type	= Circular Culvert
Culvert Entrance	= Smooth tapered inlet throat
Coeff. K,M,c,Y,k	= 0.534, 0.555, 0.0196, 0.9, 0.2

<b>Embankment</b>	
Top Elevation (ft)	= 48.00
Top Width (ft)	= 60.00
Crest Width (ft)	= 100.00

<b>Calculations</b>	
Qmin (cfs)	= 2.00
Qmax (cfs)	= 6.00
Tailwater Elev (ft)	= 0.00

<b>Highlighted</b>	
Qtotal (cfs)	= 6.00
Qpipe (cfs)	= 6.00
Qovertop (cfs)	= 0.00
Veloc Dn (ft/s)	= 7.49
Veloc Up (ft/s)	= 5.76
HGL Dn (ft)	= 43.08
HGL Up (ft)	= 44.99
Hw Elev (ft)	= 45.58
Hw/D (ft)	= 1.27
Flow Regime	= Inlet Control



# Culvert Report

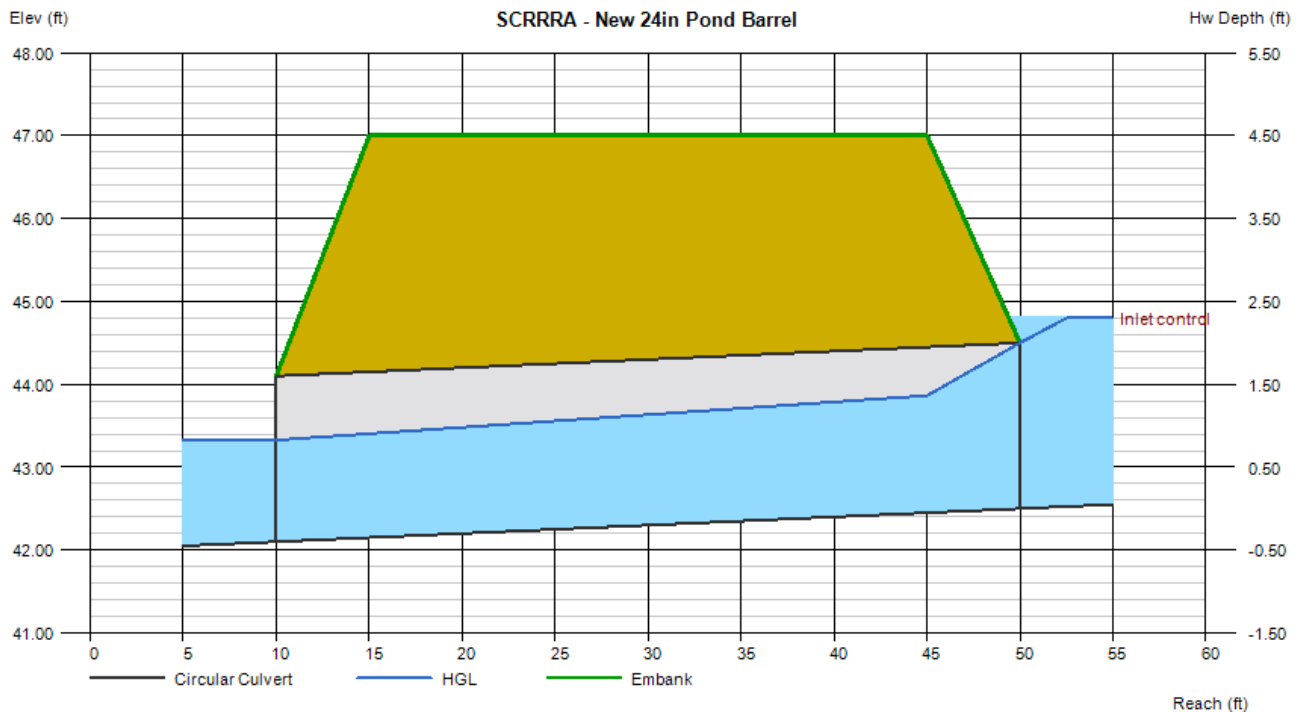
## SCRRA - New 24in Pond Barrel

Invert Elev Dn (ft)	=	42.10
Pipe Length (ft)	=	40.00
Slope (%)	=	1.00
Invert Elev Up (ft)	=	42.50
Rise (in)	=	24.0
Shape	=	Circular
Span (in)	=	24.0
No. Barrels	=	1
n-Value	=	0.012
Culvert Type	=	Circular Culvert
Culvert Entrance	=	Smooth tapered inlet throat
Coeff. K,M,c,Y,k	=	0.534, 0.555, 0.0196, 0.9, 0.2

<b>Embankment</b>	
Top Elevation (ft)	= 47.00
Top Width (ft)	= 30.00
Crest Width (ft)	= 100.00

<b>Calculations</b>	
Qmin (cfs)	= 8.00
Qmax (cfs)	= 16.00
Tailwater Elev (ft)	= 0.00

<b>Highlighted</b>	
Qtotal (cfs)	= 16.00
Qpipe (cfs)	= 16.00
Qovertop (cfs)	= 0.00
Veloc Dn (ft/s)	= 7.92
Veloc Up (ft/s)	= 6.60
HGL Dn (ft)	= 43.33
HGL Up (ft)	= 43.94
Hw Elev (ft)	= 44.80
Hw/D (ft)	= 1.15
Flow Regime	= Inlet Control





# Culvert Report

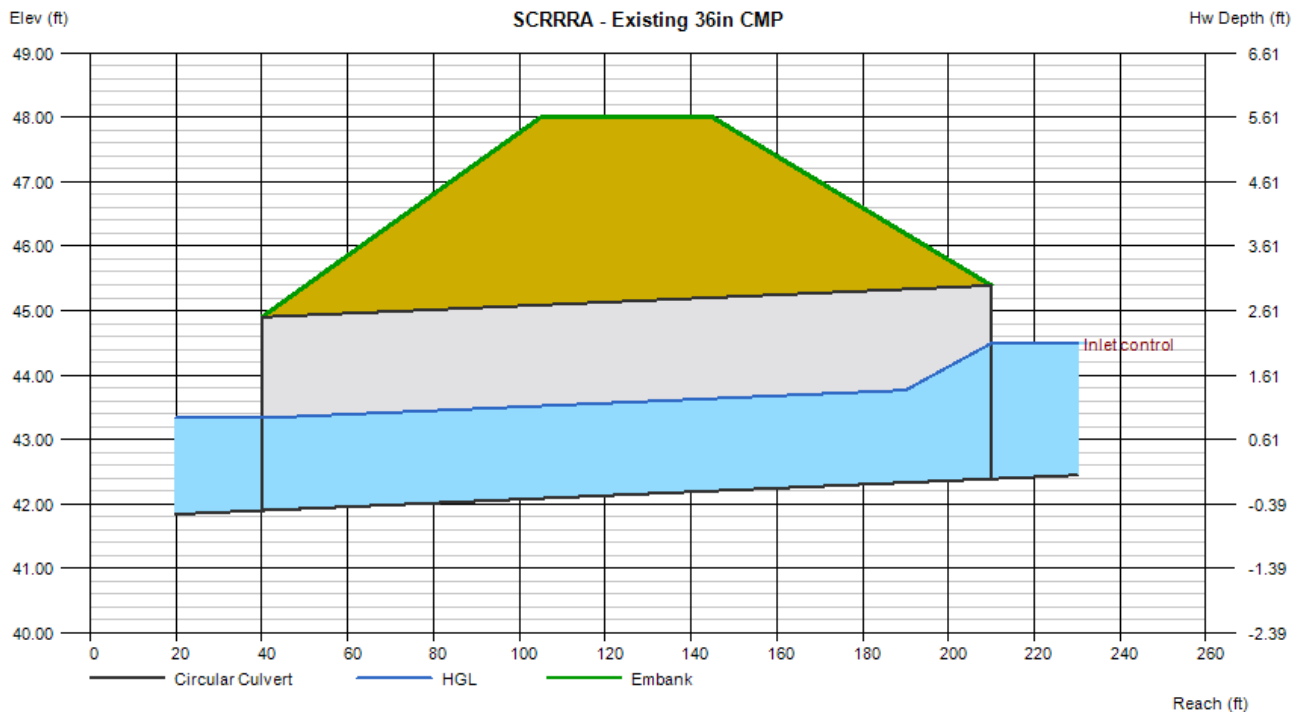
## SCRRRA - Existing 36in CMP

Invert Elev Dn (ft)	= 41.90
Pipe Length (ft)	= 170.00
Slope (%)	= 0.29
Invert Elev Up (ft)	= 42.39
Rise (in)	= 36.0
Shape	= Circular
Span (in)	= 36.0
No. Barrels	= 1
n-Value	= 0.020
Culvert Type	= Circular Culvert
Culvert Entrance	= Smooth tapered inlet throat
Coeff. K,M,c,Y,k	= 0.534, 0.555, 0.0196, 0.9, 0.2

<b>Embankment</b>	
Top Elevation (ft)	= 48.00
Top Width (ft)	= 40.00
Crest Width (ft)	= 100.00

<b>Calculations</b>	
Qmin (cfs)	= 16.00
Qmax (cfs)	= 22.00
Tailwater Elev (ft)	= 0.00

<b>Highlighted</b>	
Qtotal (cfs)	= 20.00
Qpipe (cfs)	= 20.00
Qovertop (cfs)	= 0.00
Veloc Dn (ft/s)	= 6.00
Veloc Up (ft/s)	= 6.00
HGL Dn (ft)	= 43.33
HGL Up (ft)	= 43.82
Hw Elev (ft)	= 44.49
Hw/D (ft)	= 0.70
Flow Regime	= Inlet Control



# Culvert Report

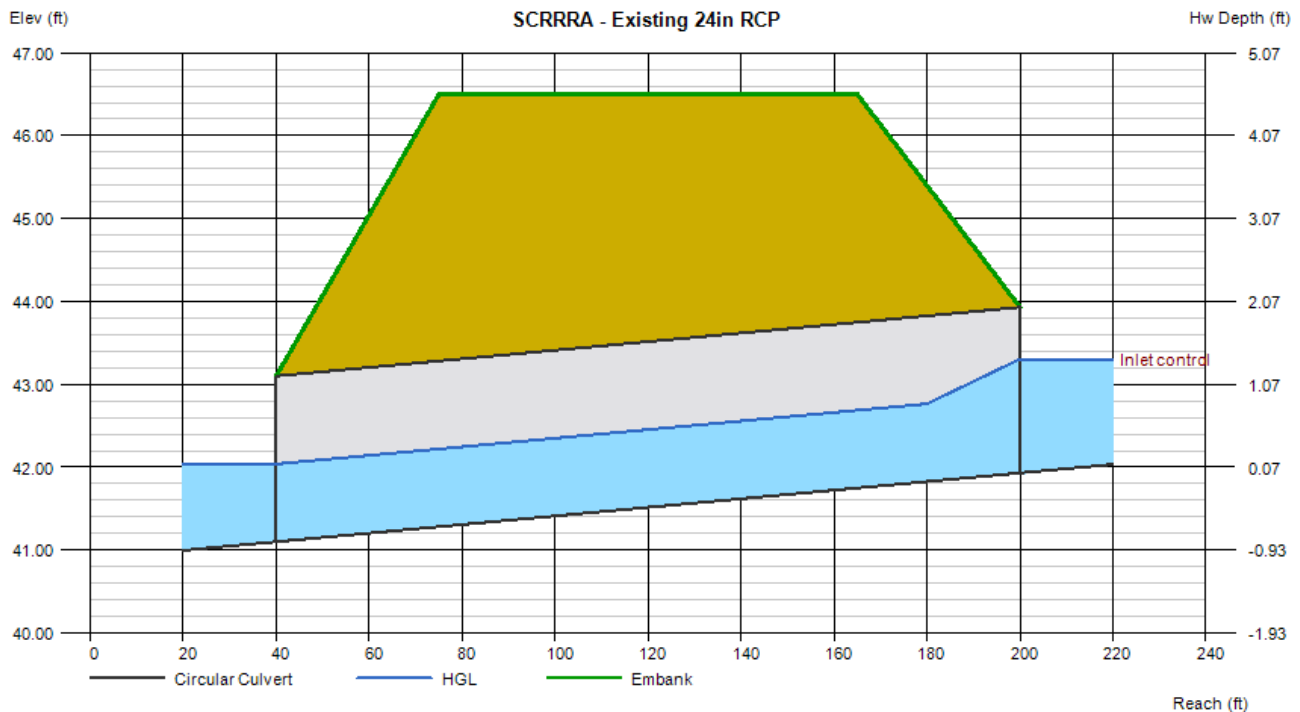
## SCRRRA - Existing 24in RCP

Invert Elev Dn (ft)	=	41.10
Pipe Length (ft)	=	160.00
Slope (%)	=	0.52
Invert Elev Up (ft)	=	41.93
Rise (in)	=	24.0
Shape	=	Circular
Span (in)	=	24.0
No. Barrels	=	1
n-Value	=	0.013
Culvert Type	=	Circular Culvert
Culvert Entrance	=	Smooth tapered inlet throat
Coeff. K,M,c,Y,k	=	0.534, 0.555, 0.0196, 0.9, 0.2

<b>Embankment</b>	
Top Elevation (ft)	= 46.50
Top Width (ft)	= 90.00
Crest Width (ft)	= 100.00

<b>Calculations</b>	
Qmin (cfs)	= 3.00
Qmax (cfs)	= 7.00
Tailwater Elev (ft)	= 0.00

<b>Highlighted</b>	
Qtotal (cfs)	= 7.00
Qpipe (cfs)	= 7.00
Qovertop (cfs)	= 0.00
Veloc Dn (ft/s)	= 4.84
Veloc Up (ft/s)	= 4.84
HGL Dn (ft)	= 42.04
HGL Up (ft)	= 42.87
Hw Elev (ft)	= 43.30
Hw/D (ft)	= 0.69
Flow Regime	= Inlet Control



# Channel Report

## SCRRRA - Diversion Channel

### Triangular

Side Slopes (z:1) = 3.00, 3.00

Total Depth (ft) = 2.00

Invert Elev (ft) = 48.00

Slope (%) = 1.60

N-Value = 0.200

### Calculations

Compute by: Known Depth

Known Depth (ft) = 1.50

### Highlighted

Depth (ft) = 1.50

Q (cfs) = 5.055

Area (sqft) = 6.75

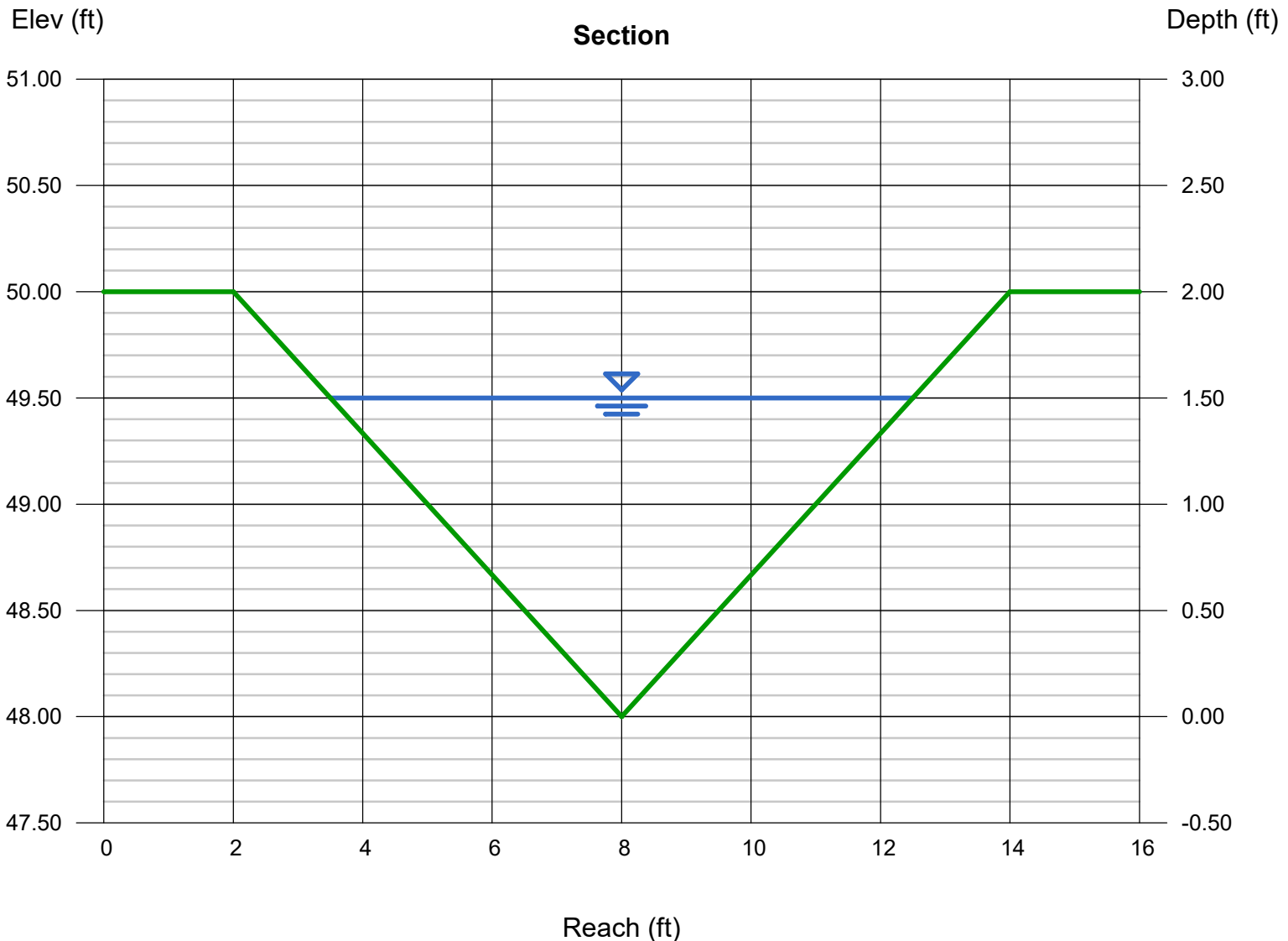
Velocity (ft/s) = 0.75


Wetted Perim (ft) = 9.49

Crit Depth, Yc (ft) = 0.71

Top Width (ft) = 9.00

EGL (ft) = 1.51





Appendix D  
ASP Compost Supporting Figures



# Site Plan Application SCRRRA Compost Facility Supporting Figures & Calculations

Prepared For:  
Southeastern Connecticut Regional Resources Recovery Authority  
7 Hurlbutt Road  
Gales Ferry, Connecticut 06335

Prepared By:

**SCS ENGINEERS**

4 Executive Boulevard, Ste. 303  
Suffern, NY 10901  
(845) 357-1510

02220718.02 | October 23, 2023







## 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 1:12,000.

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: State of Connecticut

Survey Area Data: Version 22, Sep 12, 2022

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

Date(s) aerial images were photographed: Jun 14, 2022—Oct 6, 2022

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

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
34B	Merrimac fine sandy loam, 3 to 8 percent slopes	1.8	0.3%
34C	Merrimac fine sandy loam, 8 to 15 percent slopes	20.0	3.6%
36A	Windsor loamy sand, 0 to 3 percent slopes	53.1	9.5%
36B	Windsor loamy sand, 3 to 8 percent slopes	24.7	4.4%
38A	Hinckley loamy sand, 0 to 3 percent slopes	11.2	2.0%
38C	Hinckley loamy sand, 3 to 15 percent slopes	23.9	4.3%
38E	Hinckley loamy sand, 15 to 45 percent slopes	88.1	15.7%
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	5.7	1.0%
45C	Woodbridge fine sandy loam, 8 to 15 percent slopes	5.1	0.9%
46C	Woodbridge fine sandy loam, 8 to 15 percent slopes, very stony	5.0	0.9%
60B	Canton and Charlton fine sandy loams, 3 to 8 percent slopes	7.0	1.3%
60C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes	1.0	0.2%
61B	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	17.1	3.1%
61C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes, very stony	6.5	1.2%
62C	Canton and Charlton fine sandy loams, 3 to 15 percent slopes, extremely stony	3.1	0.6%
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony	7.1	1.3%
99	Westbrook mucky peat, low salt	3.9	0.7%
103	Rippowam fine sandy loam	1.1	0.2%
305	Udorthents-Pits complex, gravelly	18.1	3.2%



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
306	Udorthents-Urban land complex	11.0	2.0%
702A	Tisbury silt loam, 0 to 3 percent slopes	2.2	0.4%
W	Water	243.4	43.5%
<b>Totals for Area of Interest</b>		<b>559.9</b>	<b>100.0%</b>



Figure 2

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

**Coastal Base Flood Elevations** shown on this map apply only to landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Connecticut State Plane Zone (FIPS zone 0600). The **horizontal datum** was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services  
NOAA, NNGS12  
National Geodetic Survey  
SSMC-3, #9202  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

**Base map** information shown on this FIRM was derived from digital orthophotography provided by the Connecticut Department of Environmental Planning. This information was created from photography dated 2000, 2004 and 2005.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

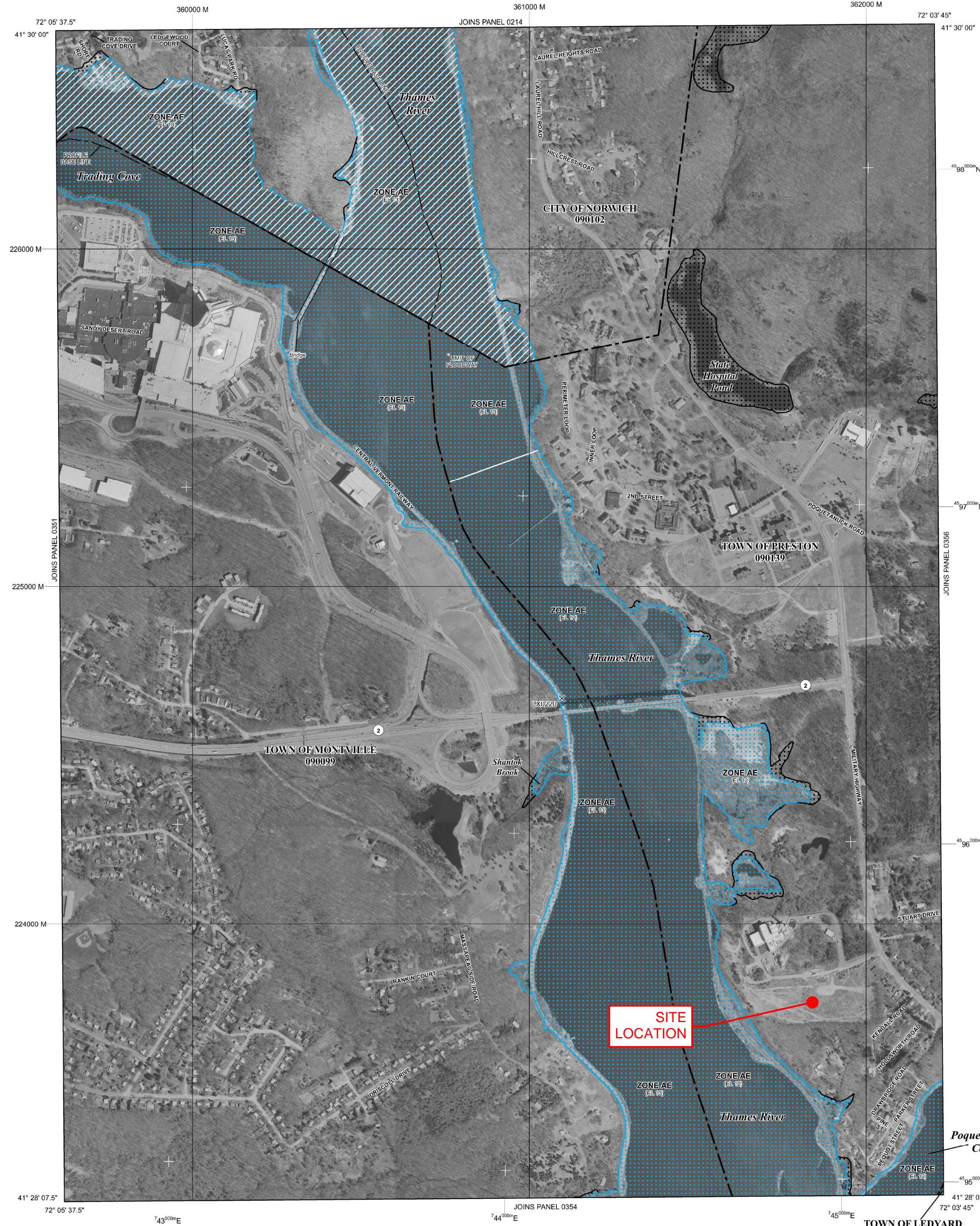
Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations** and **floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

**Corporate limits** shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/mifp>.



LEGEND

**SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**  
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevations determined.  
**ZONE AE** Base Flood Elevations determined.  
**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.  
**ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.  
**ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.  
**ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.  
**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.  
**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**  
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**  
**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.  
**OTHER AREAS**  
**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.  
**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**  
**OTHERWISE PROTECTED AREAS (OPAs)**  
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% Annual Chance Floodplain Boundary  
0.2% Annual Chance Floodplain Boundary  
Floodway boundary  
Zone D boundary  
CBRS and OPA boundary  
Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.  
Base Flood Elevation line and value; elevation in feet\*  
Base Flood Elevation value where uniform within zone; elevation in feet\*

\*Referenced to the North American Vertical Datum of 1988

— A — A — Cross section line  
— 23 — 23 — Transect line  
— — — — — Culvert  
— — — — — Bridge  
45° 02' 08", 83° 02' 12" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere  
4989000 M 1000-meter ticks: Connecticut State Plane Zone (FIPS Zone 0600), Lambert Conformal Conic projection  
4989000 N 1000-meter Universal Transverse Mercator grid values, zone 18N  
DX5510 X Bench mark (see explanation in Notes to Users section of this FIRM panel)  
• M1.5 River Mile

MAP REPOSITORIES  
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
July 8, 2011

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'  
250 0 500 1000 FEET  
150 0 150 300 METERS

SITE LOCATION

**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0352G

**FIRM**  
FLOOD INSURANCE RATE MAP  
NEW LONDON COUNTY,  
CONNECTICUT  
ALL JURISDICTIONS

PANEL 352 OF 554  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

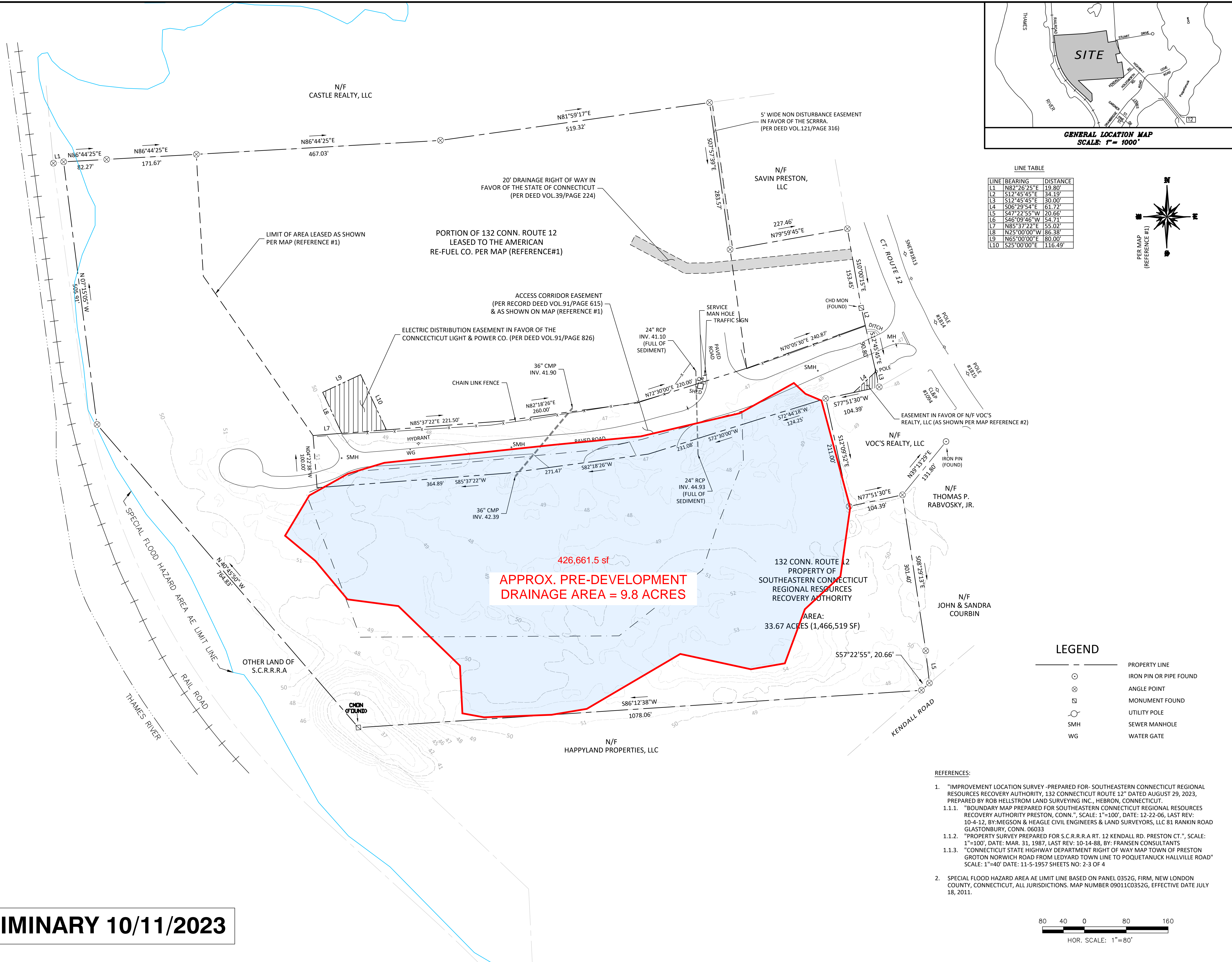
COMMUNITY	NUMBER	PANEL	SUFFIX
LEDYARD, TOWN OF	090157	0352	G
MONTEVILLE, TOWN OF	090099	0352	G
NORWICH, CITY OF	090102	0352	G
PRESTON, TOWN OF	090139	0352	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER  
09011C0352G  
EFFECTIVE DATE  
JULY 18, 2011  
Federal Emergency Management Agency

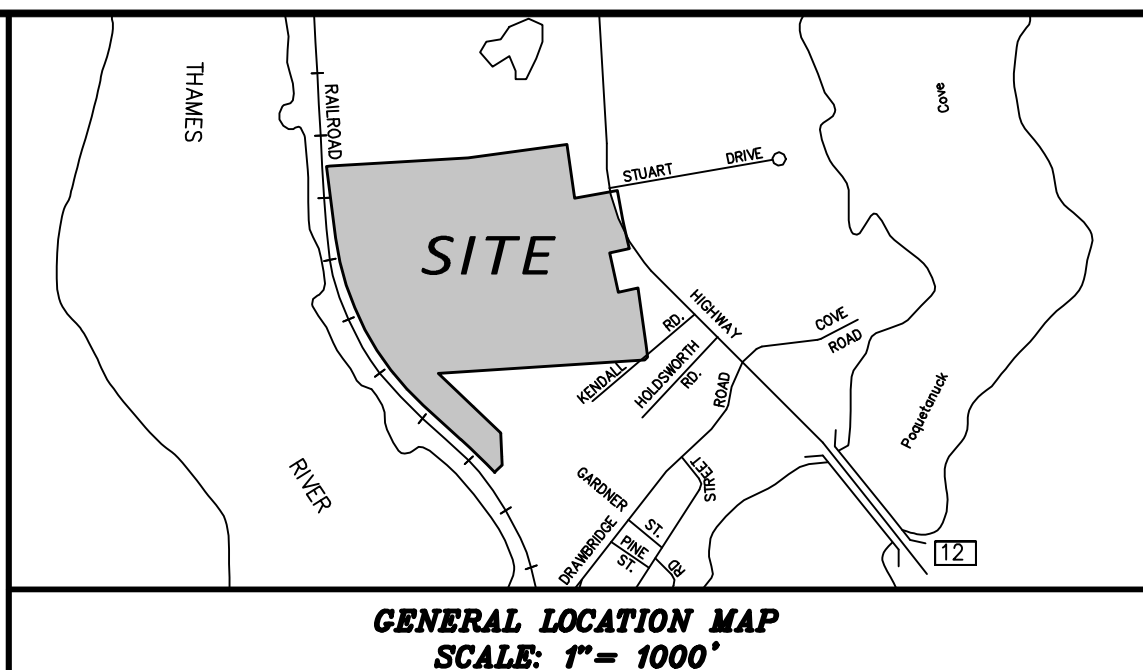
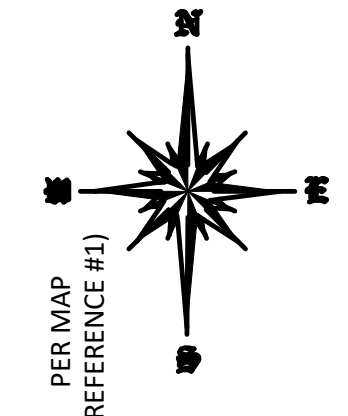


**PRELIMINARY 10/11/2023**



LINE TABLE

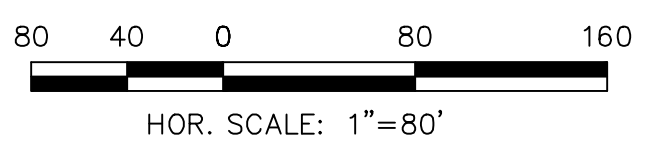
LINE	BEARING	DISTANCE
L1	N82°26'25\"E	19.80'
L2	S12°45'45\"E	34.19'
L3	S12°45'45\"E	30.00'
L4	S06°29'54\"E	61.72'
L5	S47°22'55\"W	20.66'
L6	S46°09'46\"W	54.71'
L7	N85°37'22\"E	55.02'
L8	N25°00'00\"W	86.38'
L9	N65°00'00\"E	80.00'
L10	S25°00'00\"E	116.49'



LEGEND

---	PROPERTY LINE
⊙	IRON PIN OR PIPE FOUND
⊗	ANGLE POINT
⊕	MONUMENT FOUND
⊖	UTILITY POLE
SMH	SEWER MANHOLE
WG	WATER GATE

- REFERENCES:
- "IMPROVEMENT LOCATION SURVEY - PREPARED FOR - SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY, 132 CONNECTICUT ROUTE 12" DATED AUGUST 29, 2023, PREPARED BY ROB HELLSTROM LAND SURVEYING INC., HEBRON, CONNECTICUT.
    - "BOUNDARY MAP PREPARED FOR SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY PRESTON, CONN.", SCALE: 1"=100', DATE: 12-22-06, LAST REV: 10-4-12, BY: MEGSON & HEAGLE CIVIL ENGINEERS & LAND SURVEYORS, LLC 81 RANKIN ROAD GLASTONBURY, CONN. 06033
    - "PROPERTY SURVEY PREPARED FOR S.C.R.R.A RT. 12 KENDALL RD. PRESTON CT.", SCALE: 1"=100', DATE: MAR. 31, 1987, LAST REV: 10-14-88, BY: FRANSEN CONSULTANTS
    - "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF PRESTON GROTON NORWICH ROAD FROM LEDYARD TOWN LINE TO POQUETANUCK HALLVILLE ROAD" SCALE: 1"=40' DATE: 11-5-1957 SHEETS NO: 2-3 OF 4
  - SPECIAL FLOOD HAZARD AREA AE LIMIT LINE BASED ON PANEL 0352G, FIRM, NEW LONDON COUNTY, CONNECTICUT, ALL JURISDICTIONS. MAP NUMBER 09011C0352G, EFFECTIVE DATE JULY 18, 2011.

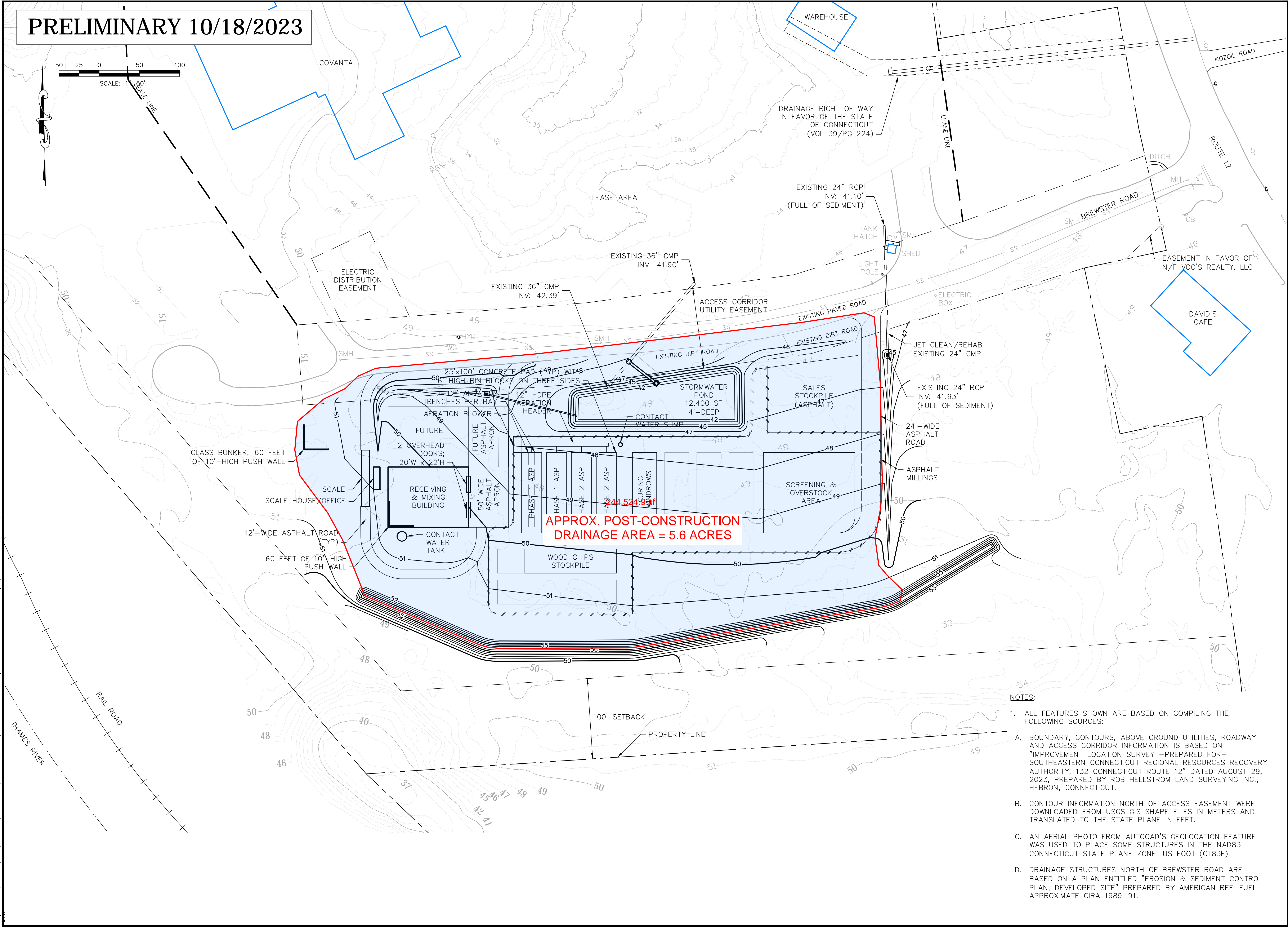
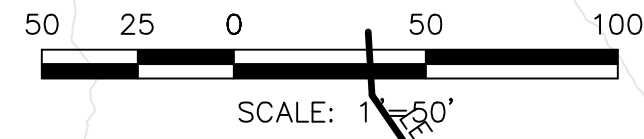


I:\PROJECTS\02220718.02\DRAWINGS\DESIGN\2-4\_ SITE PLAN.DWG layout: 2\_EX COND plotted on: 10/12/2023 11:49 AM Yevchok, Sheron

SHEET TITLE <b>PRE-DEVELOPMENT DRAINAGE AREA</b>	NO.	REVISION	DATE
	1	ISSUED FOR CLIENT REVIEW	8/23
PROJECT TITLE <b>COMPOST FEASIBILITY STUDY 132 ROUTE 12 TOWN OF PRESTON, CONN</b>			
CLIENT <b>SCRRRA 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335</b>			
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 4 EXECUTIVE BLDG. SUITE 303, SUFFERN, NY 10901 PH: (845) 357-1510 FAX: (845) 357-1049			
CADD FILE: 2-4_ SITE PLAN		DATE: 9/20/2023	
SCALE: AS SHOWN		DRAWING NO. <b>FIG -A</b>	



PRELIMINARY 10/18/2023



APPROX. POST-CONSTRUCTION DRAINAGE AREA = 5.6 ACRES

NOTES:

- ALL FEATURES SHOWN ARE BASED ON COMPILING THE FOLLOWING SOURCES:
  - BOUNDARY, CONTOURS, ABOVE GROUND UTILITIES, ROADWAY AND ACCESS CORRIDOR INFORMATION IS BASED ON "IMPROVEMENT LOCATION SURVEY -PREPARED FOR- SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY, 132 CONNECTICUT ROUTE 12" DATED AUGUST 29, 2023, PREPARED BY ROB HELLSTROM LAND SURVEYING INC., HEBRON, CONNECTICUT.
  - CONTOUR INFORMATION NORTH OF ACCESS EASEMENT WERE DOWNLOADED FROM USGS GIS SHAPE FILES IN METERS AND TRANSLATED TO THE STATE PLANE IN FEET.
  - AN AERIAL PHOTO FROM AUTOCAD'S GEOLOCATION FEATURE WAS USED TO PLACE SOME STRUCTURES IN THE NAD83 CONNECTICUT STATE PLANE ZONE, US FOOT (CT83F).
  - DRAINAGE STRUCTURES NORTH OF BREWSTER ROAD ARE BASED ON A PLAN ENTITLED "EROSION & SEDIMENT CONTROL PLAN, DEVELOPED SITE" PREPARED BY AMERICAN REF-FUEL APPROXIMATE CIRA 1989-91.

\\NYK-F501\SERVER\DATA\PROJECTS\02220716.02\DRAWINGS\DESIGN\2-4\_SITE PLAN.DWG layout: 4 - GRADING plotted on: 10/19/2023 10:39 AM Brokaw

NO.	REVISION	DATE

SHEET TITLE  
**POST-CONSTRUCTION DRAINAGE AREA**

PROJECT TITLE  
**ASP COMPOST FACILITY  
132 ROUTE 12  
TOWN OF PRESTON, CONN**

CLIENT  
**SOUTHEAST CONNECTICUT REGIONAL  
RESOURCE RECOVERY AUTHORITY  
7 HURLBUTT ROAD  
GALES FERRY, CONNECTICUT 06335**

**SCS ENGINEERS**  
STEARNS, CONRAD AND SCHMIDT  
CONSULTING ENGINEERS, INC.  
4 EXECUTIVE BLVD., SUITE 300  
HEBRON, CT 06341  
PH: (846) 357-1510 FAX: (846) 357-1049

DWG. BY: SHY  
CHK. BY: MJB  
APP. BY: GPM


CADD FILE:  
2-4\_SITE PLAN

DATE:  
SEPT 2023

SCALE:  
AS SHOWN

DRAWING NO.  
**FIG -B**

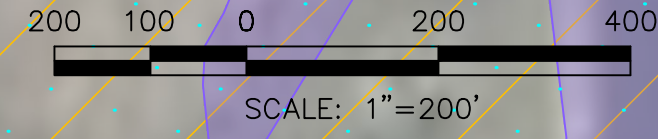




Appendix E  
Additional Maps



I:\PROJECTS\02220718.02\DRAWINGS\REGULATORYBOUNDARIES\_KRR2.DWG layout: FIGURE 1 plotted on: 4/2/2024 2:54 PM Reinton, Katy




LEGEND	
	APPROXIMATE SITE BOUNDARIES
	ENDANGERED SPECIES
	FEMA FLOODPLAIN
	NON-RIVERINE WETLAND BOUNDARY
	COASTAL BOUNDARY



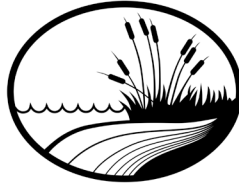
SHEET TITLE <b>REGULATORY BOUNDARIES</b>	NO.	REVISION	DATE
	1	ISSUED FOR CLIENT REVIEW	8/23
PROJECT TITLE	132 ROUTE 12 TOWN OF PRESTON, CONN		
CLIENT	<b>SCRRRA</b> 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335		
<b>SCS ENGINEERS</b> STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 4 EXECUTIVE BLVD. SUITE 302, SUFFERN, NY 10901 PH. (845) 357-1510 FAX. (845) 357-1049	DRAWN BY: SHY CHECK BY: GPM	C/A RW BY: LKW APP. BY: GPM	
PROJ. NO. 02220718.02			
CADD FILE: RegulatoryBoundaries_KRR2			
DATE: 9/20/23			
SCALE: AS SHOWN			
DRAWING NO. <b>1</b> of <b>1</b>			





# Appendix F

## Regulatory Letters



**NEW ENGLAND ENVIRONMENTAL SERVICES**  
*Wetland Consulting Specialists Since 1983*

November 17, 2023

Mr. David Aldridge  
Executive Director  
The Southeastern Connecticut Regional Resources Recovery Authority  
7 Hurlbutt Road  
Gales Ferry, CT 06335

Re: 122 Route 12  
Preston, Connecticut

Dear Mr. Aldridge:

I inspected the land located at 122 Route 12 in the Town of Preston, Connecticut. There are no wetlands or watercourses present on the land.

If you have any questions, feel free to contact me.

Respectively Submitted,

New England Environmental Services

*R. Richard Snarski*

R. Richard Snarski  
Registered Professional Soil Scientist  
Professional Wetland Scientist #1391  
Consulting Botanist

RRS/srh







TOWN OF PRESTON  
TOWN OFFICES  
389 ROUTE 2  
PRESTON, CONNECTICUT 06365-8830

CERTIFIED MAIL

January 30, 2024

Mr. David Aldridge  
SCRRRA  
7 Hurlbutt Road  
Gales Ferry, CT 06335

RE: Site Plan #2023-01 Southeastern CT Regional Resource Recovery Authority  
Applicant/Owner for property located at 132 Route 12, Preston, CT – Construction and  
operation of food waste to compost facility.

RE: Coastal Site Plan #2023-01 Southeastern CT Regional Resource Recovery Authority  
Applicant/Owner for property located at 132 Route 12, Preston, CT – Construction and  
operation of food waste to compost facility.

Dear Mr. Aldridge:

At the special meeting of the Planning and Zoning Commission held on January 25, 2024, the Commission reviewed the above referenced applications for the creation of a compost facility. After extensive discussion, the Commission unanimously voted to approve the applications with the following modifications and conditions:

1. The Town Engineer has reviewed the application and has found that his comments have been addressed. An erosion and sediment control bond cost estimate should be submitted and approved by him. A bond should be posted on the form approved by the Commission. Please contact Kathy Warzecha for all bond forms.
2. Please provide a copy of the vermin and odor control plans for our records.
3. The Building Inspector indicated that a building permit will be required had several comments regarding what would be required for the submission of the building permit.
4. Fire hydrants should be shown on the plan and should be installed in accordance with the Fire Chief's requirements.
5. The ZEO indicated that there have been complaints regarding the existing resource recovery facility, and she has had difficulty with contacting the project manager of the facility. A 24-hour contact person must be provided to the Town and response to any complaints should be provided to the ZEO within 24-hours of the ZEO's contact.
6. The restroom within the office area can be either served by an on-site septic system approved by the Uncas Health District or public sewer with approval by the First Selectwoman for connection to the Preston Pump Station and by Norwich Public Utilities for connection to the sewer line.

*SCRRRA To pay*  
According to Section 3-17.2 of the Zoning Regulations, you will need to pay the legal notice fee in the amount of ~~\$488.75~~ prior to the endorsement of the plan.

Please provide one mylar copy of the plan produced in compliance with Section 7-31 of the Connecticut General Statutes regarding requirements for the filing of a map and one (4) paper copies of the plan with *refer to sub regs*

*A-25 sub reg by Home sub reg?*

original signatures of all professional and a digital copy of the plans within thirty days of the Commission meeting (February 25, 2024). After endorsement of the plan by the Chairman, the mylar copy of the plan will be returned to you for filing in the Office of the Town Clerk. Said plan shall be filed by you, or your representative, in the Office of the Town Clerk within ninety days.

**OTHER PERMITS REQUIRED:** A zoning permit, building permit and other town and state permits must be obtained. Prior to the commencement of any work, a preconstruction meeting will be held with the Town Planner, Kathy Warzecha, and other staff members to discuss the project schedule. Please contact her at 860-887-5581 ext. 109 and she will organize the meeting.

**SITE INSPECTION:** During the construction of the project, inspections will be conducted to review the progress of the project by the Zoning Enforcement Officer, as follows:

1. After placement of all erosion and sediment control measures; All silt fences shall remain in plans until approved for removal by the ZEO;
2. After placement of stakes for the receiving building and concrete pads;
3. At the completion of the project;

Please be advised that a forty-eight (48) hour notice is required for the inspections. If work is completed without these inspections, it will be done at your own risk and can result in non-compliance. In the event there are concerns with the location of any items shown on the plan, the Zoning Enforcement Officer or the Town Planner may require that a land surveyor verify its location and any distances, as necessary.

**AS-BUILT DRAWINGS:** An as-built drawing will be required after the work is completed. The as-built, prepared by the land surveyor, shall show the location of the building, paving, parking, compost areas, connection to the sewer or the septic, stormwater pond with dimensions and any other related improvements prior to releasing the bond.

If you have any questions regarding this matter, please do not hesitate to contact Kathy Warzecha, Town Planner at 960-887-5581 ext. 109.

Very truly yours,

*Kathy B. Warzecha*

Kathy B. Warzecha for  
Arthur Moran, Chairman

cc: Building Inspector  
ZEO  
Assessor  
Fire Marshal  
Michael Carey, Esq.





March 28, 2024

Dave Aldridge  
Southeastern Connecticut Regional Resource Recovery Authority  
7 Hurlbutt Rd  
Gales Ferry, CT 06335  
[Daldridge@scrrra.org](mailto:Daldridge@scrrra.org)

**NDDB DETERMINATION NUMBER:** 202206742 renewal

**Project:** Construct/operate a commercial food waste composting facility, SCRRRA, 132 Military Hwy (Rte 12), Preston, CT

**Expiration:** June 30, 2025

I have reviewed Natural Diversity Data Base (NDDB) maps and files regarding this project. According to our records, there are State-listed species (RCSA Sec. 26-306) documented nearby the proposed project areas.

**Big sand tiger beetle (*Cicindela formosa generosa*)- State Special Concern**

The pine barrens tiger beetle occupies sand plain habitat with open patches of xeric (dry), loose shifting sands, without water that are sparsely vegetated, such as pine barrens.

This area has the unique potential to be restored and managed to support **Critical Sandplain Habitat**.

Sand plains are one of New England's rarest ecosystems. These are areas of dry, sandy soil left by glacial outwash, sand plains support sparse vegetation and bare ground. At first glance, a sand plain looks like a scruffy wasteland. Sand plains have been subjected to mining, development, and fragmentation, resulting in a loss of up to 95% of this habitat type. But these unusual environments are home to many rare plants and insects. Sand plains are important because they can support complex insect-dominated communities that have been overlooked in many conservation efforts. Experts have suggested that the continued development on sand plains in the region could mean the loss of potentially more than 150 species of sand barren specialists from Connecticut.

We recommend you identify, restore, and protect suitable habitat for this state species in your project area. You can benefit this species by seeking help from an invertebrate biologist or plant ecologist to create a management plan to enhance habitat where opportunities exist. Keep the following recommendations in mind as you manage your habitat:

- Minimize ground impact to sensitive habitat, and do not import other types of permanent fill.
- If sensitive habitats are disturbed, it is best to allow them to revegetate naturally or propagate only locally collected seed. Avoid commercially available seed mixes. They include plant species which are not considered native to Connecticut. Even mixes marketed as 'New England' or 'Northeast' mixes include high percentages of species not native to the Connecticut or the region. Additionally, commercially available seed mixes include plants that are listed as invasive in CT or which include non-local genotypes.
- Minimize the use of pesticides and herbicides in general and consider alternatives. Take precautions that species are not impacted by chemical use including using spot treatment techniques.



Please contact NDDB and Wildlife Diversity Biologist, Laura Saucier ([laura.saucier@ct.gov](mailto:laura.saucier@ct.gov)) if you would like to consult with us more to coordinate on sandplain restoration efforts.

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Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Bureau of Natural Resources and cooperating units of DEEP, independent conservation groups, and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the NDDB should not be substituted for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated in the NDDB as it becomes available.

Please contact me if you have any questions ([shannon.kearney@ct.gov](mailto:shannon.kearney@ct.gov)). Thank you for consulting with the Natural Diversity Data Base and continuing to work with us to protect State-listed species.

Sincerely,

/s/ Shannon B. Kearney  
Wildlife Biologist

June 30, 2022

Dave Aldridge  
Southeastern Connecticut Regional Resource Recovery Authority  
7 Hurlbutt Rd  
Gales Ferry, CT 06335  
[Daldridge@scrrra.org](mailto:Daldridge@scrrra.org)

**NDDB DETERMINATION NUMBER: 202206742**

**Project:** Construct/operate a commercial food waste composting facility, SCRRRA, 132 Military Hwy (Rte 12), Preston, CT

**Expiration:** June 30, 2024

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- Minimize the use of pesticides and herbicides in general and consider alternatives. Take precautions that species are not impacted by chemical use including using spot treatment techniques.

Please contact NDDB and Wildlife Diversity Biologist, Laura Saucier ([laura.saucier@ct.gov](mailto:laura.saucier@ct.gov)) if you would like to consult with us more to coordinate on sandplain restoration efforts.

---


Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Bureau of Natural Resources and cooperating units of DEEP, independent conservation groups, and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the NDDB should not be substituted for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated in the NDDB as it becomes available.

Please contact me if you have any questions ([shannon.kearney@ct.gov](mailto:shannon.kearney@ct.gov)). Thank you for consulting with the Natural Diversity Data Base and continuing to work with us to protect State-listed species.

Sincerely,

/s/ Shannon B. Kearney  
Wildlife Biologist

Cc: Laura Saucier



# Appendix G

## Inspection and Maintenance Forms

# INSPECTION CHECKLIST

DATE/ TIME: \_\_\_\_\_

INSPECTOR: \_\_\_\_\_

TYPE OF BMP: \_\_\_\_\_

WEATHER DURING INSPECTION: \_\_\_\_\_

LOCATION: \_\_\_\_\_

TYPE OF INSPECTION (check if applicable):

Storm Event       Complaint Response       Routine

AS IS BUILT PLANS AVAILABLE: Yes       No

PRECIPITATION AMOUNT IN 24 HR PRIOR TO INSPECTION: \_\_\_\_\_

<b>INLET</b>	APPLICABLE: Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Circle or note applicable element(s):</u> level spreader, inlet curb cut opening, inlet structure, piped flow entrance, flow diversion structure  _____	<u>Guidance on what to look for:</u> -Accumulated debris/ sediment at the inlet and within the structure (if applicable) -Structural damage or erosion
CONDITION:	Satisfactory <input type="checkbox"/> Unsatisfactory <input type="checkbox"/>

<b>RECOMMENDED MAINTANENCE</b>
_____ _____ _____ _____ _____ _____ _____ _____ _____

<b>NOTES</b>
_____ _____ _____ _____
<b>DATE FOR FOLLOW UP</b>
_____





<b>FILTER BED</b>	APPLICABLE: Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Circle or note applicable element(s):</u> bioretention, sand filter, tree filter, dry water quality swale, permeable pavement _____	<u>Guidance on what to look for:</u> - Accumulated debris/ sediment -Overgrown/ dead vegetation and weeds -Standing water above filter bed -Erosion/ rutting in upgradient areas -Cracks or damage to permeable pavement
CONDITION: Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>

<b>RECOMMENDED MAINTANENCE</b>
_____ _____ _____ _____ _____ _____ _____ _____ _____

<b>NOTES</b>
_____ _____ _____ _____
<b>DATE FOR FOLLOW UP</b>
_____

<b>SUBSURFACE RESERVOIR/ OBSERVATION WELL</b>	APPLICABLE: Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Circle or note applicable element(s):</u> infiltration trench, underground infiltration system, dry well, bioretention, tree filter, dry water quality swale, subsurface gravel wetland* _____	<u>Guidance on what to look for:</u> -Standing water in the  <div style="text-align: right;">*if underdra in present</div>

CONDITION: Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>
--	---

<b>RECOMMENDED MAINTANENCE</b>
_____ _____ _____ _____ _____ _____ _____ _____

<b>NOTES</b>
_____ _____ _____
<b>DATE FOR FOLLOW UP</b>
_____

<b>Berm/ Weir</b>	APPLICABLE: Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>Circle or note applicable element(s):</u> stormwater ponds, stormwater wetlands including subsurface gravel wetland, water quality swales _____	<u>Guidance on what to look for:</u> -Debris sediment buildup -Damage (e.g. erosion, cracks, spalling, seepage/ weeps, failure, animal burrows)	
<b>CONDITION:</b>	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>

<b>RECOMMENDED MAINTANENCE</b>
_____ _____ _____ _____ _____ _____ _____

<b>NOTES</b>
_____ _____ _____
<b>DATE FOR FOLLOW UP</b>
_____

<b>Outlet</b>	APPLICABLE: Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>Circle or note applicable element(s):</u> outlet curb cut openings, raised overflow structures or risers, outflow weirs, outlet pipes/ culverts, stone riprap apron, stone riprap stilling basin or plunge pool _____	<u>Guidance on what to look for:</u> -Accumulated debris/ sediment at the outlet and within the structure (if applicable) -Structural damage or erosion	
<b>CONDITION:</b>	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>

<b>RECOMMENDED MAINTANENCE</b>
_____ _____ _____ _____ _____ _____ _____

<b>NOTES</b>
_____ _____ _____
<b>DATE FOR FOLLOW UP</b>
_____

**Maintenance Access**                      APPLICABLE: Yes                       No

All BMPs are applicable  
Guidance on what to look for:  
-Access to pretreatment and all parts of BMP that require routine maintenance or sediment removal  
-Structural damage or erosion access road  
-Overgrown/ dead vegetation preventing or impeding access by maintenance personnel or equipment

CONDITION:                      Satisfactory                       Unsatisfactory

**RECOMMENDED MAINTANENCE**

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**NOTES**

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**DATE FOR FOLLOW UP**

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**Other:** \_\_\_\_\_

Note applicable element(s):  
\_\_\_\_\_  
\_\_\_\_\_

CONDITION:                      Satisfactory                       Unsatisfactory

**RECOMMENDED MAINTANENCE**

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**NOTES**

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**DATE FOR FOLLOW UP**

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# Appendix H

## Inspection Personnel Qualifications

## PETER S. CATTANEO

### Education

BS – Civil Engineering, California Polytechnic State University, San Luis Obispo, California, 2016

### Professional Affiliations

American Society of Civil Engineers (ASCE)



### Professional Experience

Mr. Cattaneo has 7 years of experience in solid waste management, including composting. His experience includes design, permitting, regulatory support, construction oversight, economic analysis, and technology assessment. He has extensive CAD and GIS training, and experience in designing stormwater management structures and incorporating low impact development design into sites.

### Organics Management

**Chittenden Solid Waste District, VT.** Staff engineer for preparation of a business analysis and provision of design services for CSWD's organics diversion facility, home of Green Mountain Compost. Tasks included design services for expansion of the existing compost operation to demonstrate site suitability and estimate construction costs.

**Compost Standards and Regulatory Support – US Sites.** Staff engineer for development of minimum, standard site criteria (design, construction and operation) for compost production for a Fortune 1000 company.

**Sullivan County, NY.** Staff engineer for preparation of an organics management plan feasibility study that considered diversion of organics from residential, commercial and institutional generators. Tasks included design of a hybrid compost facility.

**Kinross Township, MI.** Staff engineer for preparation of a compost system feasibility study for Kinross Charter Township. Tasks included a technology assessment.

**Geomembrane ASP Compost Design – Various Sites.** Staff engineer for design of covered, aerated static pile compost facilities. Tasks included preparation of layout drawings.

**Compost Facility and Mulch Operations Evaluation, Virginia Beach, VA.** Staff engineer for evaluation of an existing yard waste mulch facility. Tasks included review of current operations and best management practices, and conceptual design of site improvements.

**ASP Compost Design – NYC.** Staff engineer for preparation of bid documents for a compost facility using an ASP system at a site located in Queens, New York. Tasks included: site grading; design of working surfaces; stormwater management design; contact water management.

**Geomembrane ASP Compost Design – NYC.** Staff engineer for preparation of bid documents for a compost facility using the Gore cover system at a site located in Queens, New York. Tasks included:



surveying and site grading; design of working surfaces; stormwater management design; contact water management

**Compost Feasibility Study - OH.** Staff engineer for a feasibility study to develop a compost facility in Lorain County to manage yard waste and food scraps. Based on the available site, prepared processing capacity estimates, site design and operating plan.

## **Landfill Engineering**

**Connecticut Department of Energy and Environmental Protection, LFG System Modifications for Ellington Landfill.** Staff Engineer for provision of engineering design services to replace an existing low-emission LFG enclosed flare and blower equipment with a new, low capacity blower/flare skid, and to modify LFG piping in the wellfield. Services included review of submittals and design drawings, performance of construction quality assurance (CQA) and preparation of a CQA report and record drawings.

**CMA Engineers, Mt. Carberry LFG Expansion Design, Success, New Hampshire.** Staff Engineer responsible for the design of an LFG system expansion for the Mt. Carberry Landfill in Success, New Hampshire. The project involved the installation of several LFG wells and extensions to existing underground piping, as well as performance of CQA and review of client submittals.

**Chester County Solid Waste Authority, KYPipe Analysis for Existing Leachate Management System at Lanchester Landfill, Pennsylvania.** Project Engineer responsible for the evaluation of an existing leachate management system and subsequent modifications. Tasks included: the implementation of a KYPipe model to guide the design of modifications; the design of sump and piping to meet requirements of leachate transmittal; selection of a pump based on the agreed-upon configuration.

## **Landfill Gas Management**

**Waste Management, Inc., 5-Year Plan Development of LFG System and Annual LFG Expansion Design for Crossroads Landfill, Norridgewock, Maine.** Project Engineer responsible for the design of annual LFG system expansions. The project involved the installation of several LFG collectors and extensions to existing underground piping, as well as the development of plans for a new landfill phase.


**Rhode Island Resource Recovery Corporation, Data Management and Regulatory Reporting for Central Landfill, Johnston, Rhode Island.** Project Engineer responsible for preparing monthly LFG system data summaries, quarterly surface emission monitoring plans and summary tables, and annual and semi-annual reports. This monitoring ensured that landfill emissions were within regulatory standards on a regular basis, and includes updates to and development of an LFG model on an annual basis.

**Hydrogen Sulfide Model Development – Various Sites.** Project Engineer responsible for the development of a model to predict hydrogen sulfide loading of gases based on waste characterization.

**CMA Engineers, Design Plan Preparation and Regulatory Reporting for Mt. Carberry Secure Landfill, Success, New Hampshire.** Project Engineer responsible for preparing the gas collection and control system (GCCS) design plan, quarterly surface emission monitoring reports, and annual and semi-annual reports. This reporting ensured that landfill emissions were within regulatory standards on a regular basis.




**Greg McCarron, PE, BS – Environmental Engineering.** Greg is a USCC Certified Composting Professional™ and a registered professional engineer in Connecticut and six other states. He has over 35 years of experience in all aspects of solid waste management, including composting. He is SCS' national expert for organics management projects. His experience includes operations, project management, design, permitting, regulatory support, construction oversight, system start-up, and stormwater management systems.



# Appendix I

## Corrective Action Reports



Appendix J  
SWPCP Modification Log