Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

General Permit Registration Form for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, effective 10/1/13 (electronic form)

Prior to completing this form, you **must** read the instructions for the subject general permit at **DEEP-WPED-INST-015**.
This form must be filled out electronically before being printed.
You must submit the registration fee along with this form.

The status of your registration can be checked on the DEEP's ezFile. Portal. Please note that DEEP will no longer mail certificates of registration.

CPPU USE ONLY

App #: _____

Doc #: _____

Check #: _____

Program: **Stormwater**

Part I: Registration Type

Select the appropriate boxes identifying the registration type and registration deadline.

	Registration Type			Registration Timeline
☐	**Re-registration** **Existing Permit No. GSN** _____			**On or before February 1, 2014*** *Note: Failure to renew a permit by this date will require submission of new registration. Re-registrants must only complete Parts I, II, III, IV - Question 1, VII and submit Attachment A.
☑	**New Registration** (Refer to Section 2 of the permit for definitions of Locally Exempt and Locally Approvable Projects)	☑ **Locally Approvable** **Size of soil disturbance:** 2.36		**New registration - Sixty (60) days prior to the initiation of the construction activity for:** For sites with a total soil disturbance area of 5 or more acres
		☐ **Locally Exempt** **Size of soil disturbance:** _____	☐	**New registration - Sixty (60) days prior to the initiation of the construction activity for:** Sites with a total disturbance area of one (1) to twenty (20) acres except those with discharges to impaired waters or tidal wetlands
			☐	**New registration - Ninety (90) days prior to the initiation of the construction activity for:** (i) Sites with a total soil disturbance area greater than twenty (20) acres, or (ii) Sites discharging to a tidal wetland (that is not fresh-tidal and is located within 500 feet), or (iii) Sites discharging to the impaired water listed in the "Impaired Waters Table for Construction Stormwater Discharges"

Part II: Fee Information

1. New Registrations

   a. Locally approvable projects (registration only):

☑ $625

   b. Locally exempt projects (registration and Plan):

☐ $3,000 total soil disturbance area ≥ one (1) and < twenty (20) acres.

☐ $4,000 total soil disturbance ≥ twenty (20) acres and < fifty (50) acres.

☐ $5,000 total soil disturbance ≥ fifty (50) acres.

2. Re-Registrations

☐ $625 (sites previously registered prior to September 1, 2012)

☐ $0 (sites previously registered between to September 1, 2012 and effective date of this permit)

Total Fee: $625.00

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. The registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by certified check or money order payable to the Department of Energy and Environmental Protection.

Part III: Registrant Information

- If a registrant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of the State. If applicable, the registrant's name shall be stated **exactly** as it is registered with the Secretary of the State. This information can be accessed at **CONCORD**
- If a registrant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

1. Registrant /Client Name: STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

   Registrant Type: State Agency

   Secretary of the State business ID #:

   Mailing Address: 140 POND LILY AVE

   City/Town: NEW HAVEN State: CT Zip Code: 06515

   Business Phone: (203) 389-3100 ext.:

   Example:(xxx) xxx-xxxx

   Contact Person: Domenic A. LaRosa, P.E. Title : District 3 Engineer

   E-Mail: domenic.larosa@ct.gov

2. List billing contact:

   Name: STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

   Mailing Address: 140 POND LILY AVE

   City/Town: NEW HAVEN State: CT Zip Code: 06515

   Business Phone: (203) 389-3100 ext.:

   Contact Person: Domenic A. LaRosa, P.E. Title : District 3 Engineer

3. List primary contact for departmental correspondence and inquiries:
   Name: STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
   Mailing Address: 140 POND LILY AVE
   City/Town: NEW HAVEN State: CT Zip Code: 06515
   Business Phone: (203) 389-3100 ext.
   Contact Person: Domenic A. LaRosa, P.E. Title: District 3 Engineer

4. List owner of the property on which the activity will take place:
   Name: STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
   Mailing Address: 140 POND LILY AVE
   City/Town: NEW HAVEN State: CT Zip Code: 06515
   Business Phone: (203) 389-3100 ext.
   Contact Person: Domenic A. LaRosa, P.E.

5. List preparer:
   Name: STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
   Mailing Address: 2800 BERLIN TPKE
   City/Town: NEWINGTON State: CT Zip Code: 06111
   Business Phone: (860) 594-2735 ext.
   Contact Person: Devin M. Racicot Title: Transportation Engineer 3

6. List design professional:
   Name: BL COMPANIES, INC.
   Mailing Address: 100 CONSTITUTION PLZ, 10TH FL
   City/Town: HARTFORD State: CT Zip Code: 06103
   Business Phone: (860) 760-1930 ext.
   Contact Person: David Cicia Title: Principal Engineer

7. List Reviewing Qualified Professional (for locally approvable projects only):
   Name: BL COMPANIES, INC.
   Mailing Address: 100 CONSTITUTION PLZ, 10TH FL
   City/Town: HARTFORD State: CT Zip Code: 06103
   Business Phone: (860) 760-1918 ext.
   Contact Person: Michael Fisher, PE Title: Senior Project Manager

Part IV: Site Information

1. Site Name: 0106-0130 - Route 15 Southbound Interchange 57
   Street Address or Description of Location: CT-15 S
   City/Town: Orange State: CT Zip Code: 06477
   Brief Description of construction activity:
   Site work includes the realignment of the Route 15 southbound entrance ramp from Route 34 eastbound and widening Route 15 southbound to accommodate an acceleration lane.
   Project Start Date: 1 Apr 2022 Anticipated Completion Date: 30 Nov 2022
   Normal working hours: 7 AM to 5 PM

2. **MINING** : Is the activity on the site in question part of mining operations (i.e. sand and gravel)? ☐Yes ☑No

If yes, mining is not authorized by this general permit. You must submit the Registration Form for the General Permit for the Discharge of Stormwater Associated with Industrial Activity.

3. **COMBINED OR SANITARY SEWER:** Does all of the stormwater from the proposed activity discharge to a combined or sanitary sewer (i.e. a sewage treatment plant)? ☐ Yes ☑No

If yes, this activity is not regulated by this permit. Contact the Water Permitting & Enforcement Division at 860-424-3018.

4. **INDIAN LANDS:** Is or will the facility be located on federally recognized Indian lands? ☐ Yes ☑No

5. **COASTAL BOUNDARY:** Is the activity which is the subject of this registration located within the coastal boundary as delineated on DEEP approved coastal boundary maps? ☐ Yes ☑No

The coastal boundaries fall within the following towns: Branford, Bridgeport, Chester, Clinton, Darien, Deep River, East Haven, East Lyme, Essex, Fairfield, Greenwich, Groton (City and Town), Old Lyme, Guilford, Hamden, Ledyard, Lyme, Madison, Milford, Montville, New London, New Haven, North Haven, Norwalk, Norwich, Old Saybrook, Orange, Preston, Shelton, Stamford, Stonington (Borough and Town), Stratford, Waterford, West Haven, Westbrook and Westport.

If "yes", and this registration is for a new authorization or a modification of an existing authorization where the physical footprint of the subject activity is modified, you must provide documentation to the DEEP Office of Long Island Sound Programs or the local governing authority has issued a coastal site plan approval or determined the project is exempt from coastal site plan review. Provide this documentation with your registration as Attachment B. See guidance in Appendix D of the general permit. Information on the coastal boundary is available at the local town hall or on the **Connecticut Coastal Resources Map** . Additional DEEP Maps and Publications are available by contacting DEEP Staff at 860-424-3555.

6. **ENDANGERED OR THREATENED SPECIES:**

In order to be eligible to register for this General permit, each registrant must either perform a self-assessment, obtain a limited one-year determination, or obtain a safe-harbor determination regarding threatened and endangered species. This may include the need to develop and implement a mitigation plan. While each alternative has different limitations, the alternatives are not mutually exclusive; a registrant may register for this General Permit using more than one alternative, See Appendix A of the general Permit. Each registrant must complete this AND Attachment C to this Registration form and a registrant who does not or cannot do so is not eligible to register under this General Permit.

Each registration must perform a review of the Department's Natural Diversity Database maps to determine if the site of the construction activity is located within or in proximity (within ¼ mile) to a shaded area.

a. Provide the date of the NDDB maps were reviewed: 27 May 2021 (Print a copy of the NDDB map you viewed since it must be submitted with this registration as part of Attachment C.)

b. For a registrant using a limited one-year determination or safe harbor determination to register for this General Permit, provide the Department's Wildlife Division NDDB identification number for any such determination:

_____ (The number is on the determination issued by the Department's Wildlife Division).

For more information on threatened and endangered species requirements, refer to Appendix A and section 3(b)(2) of this General Permit, Visit the DEEP website at **Natural Diversity Data Base** or call the NDDB at 860-424-3011.

c. I verify that I have completed Attachment C to this Registration Form. ☐ Yes

7. **WILD AND SCENIC RIVERS:** Is the proposed project within the watershed of a designated Wild and Scenic River? (See Appendix H for guidance) ☐ Yes ☑ No

8. **AQUIFER PROTECTION AREAS:** Is the site located within a mapped **Aquifer Protection Area** , as defined in Section 22a-354h of the CT General Statutes? (For additional guidance, please refer to Appendix C of the General Permit) ☐ Yes ☑ No

9. **Connecticut Guidelines for Soil Erosion and Sediment Control Guidelines:** Is the activity in accordance with Connecticut Guidelines for Soil Erosion and Sediment Control Guidelines and local erosion & sediment control ordinances, where applicable? ☑ Yes ☐ No

10. **HISTORIC AND/OR ARCHAEOLOGICAL RESOURCES:**

Has the site of the proposed activity been reviewed (using the process outlined in Appendix G of this permit) for historic and/or archaeological resources? ☑ Yes ☐ No

a. The review indicates the proposed site does not have the potential for historic/ archaeological resources, OR ☐ Yes ☑ No

b. The review indicated historic and/ or archaeological resource potential exists and the proposed activity is being or has been reviewed by the Offices of Culture and Tourism, OR ☐ NA ☑ Yes ☐ No

c. The proposed activity has been reviewed and authorized under an Army Corps of Engineers Section 404 wetland permit. ☐ NA ☐ Yes ☑ No

11. **CONSERVATION OR PRESERVATION RESTRICTION:**

Is the property subject to a conservation or preservation restriction? ☐ Yes ☑ No

If Yes, proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying this registration is in compliance with the terms of the restriction, must be submitted as Attachment D.

Part V: Stormwater Discharge Information

Table 1

Outfall #	a) Type	b) Pipe Material	c) Pipe Size	d) Note: To find lat/long, go to: CT ECO . A decimal format is required here. Directions on how to use CT ECO to find lat. /long. and conversions can be found in in Part V, section d of the DEEP-WPED-INST-015 .		e) What method was used to obtain your latitude/longitude information?
				Longitude *(Format: -xx.xxxxx)*	Latitude *(Format: xx.xxxxx)*	
EO-1	Pipe	Concrete	36"	-73.034118	41.303485	ezFile Portal Map

Part V: Stormwater Discharge Information Continued

Table 2

2. Provide the following information about the receiving water(s)/wetland(s) that receive stormwater runoff from your site, either directly or through the storm sewer system:							
Outfall #	**Dates when this outfall will be active:**	**a) To what system or receiving water does your stormwater runoff discharge? either "storm sewer or wetlands" or "waterbody" (If you select storm sewer or wetlands, columns c.1&2 of this table are not required to be completed)**	**b) What is your watershed ID (freshwater) or 305b ID (estuary)? (Section 3.b, of the DEP-GP-INST-015 explains how to find this information)**	**c.1) Is your receiving water identified as an impaired water in the "Impaired Waters Table for Construction Stormwater Discharges"?**	***If you answered yes to question c.1, then answer the question below*** **c.2) Has any Total Maximum Daily Load (TMDL) been approved for your receiving waterbody?**	**For the drainage area associated with each outfall: Effective Impervious Area Before Construction (sq ft)**	**For the drainage area associated with each outfall: Effective Impervious Area After Construction (sq ft)**
EO-1	Start: 1 Apr 2022 End:	Storm Sewer or Wetlands		☐ Y ☐ N ☑ NA	☐ Y ☐ N ☑ NA	41480	45665
	Start: End:	Select One		☐ Y ☐ N ☐ NA	☐ Y ☐ N ☐ NA		
	Start: End:	Select One		☐ Y ☐ N ☐ NA	☐ Y ☐ N ☐ NA		
	Start: End:	Select One		☐ Y ☐ N ☐ NA	☐ Y ☐ N ☐ NA		
	Start: End:	Select One		☐ Y ☐ N ☐ NA	☐ Y ☐ N ☐ NA		
Provide the total effective impervious area for the entire site(sq ft):						41480	45665

Part V: Stormwater Discharge Information (continued)

Impaired waters: If you answered "yes" to Table 2, question 2.c.1, **verify** that the project's Pollution Control Plan (Plan) addresses the control measures below in Question 1 or 2, as appropriate.

1. **If the impaired water does not have a TMDL,** confirm compliance by selecting 1.a. or 2.b. below:

   a. No more than 3 acres is disturbed at any time; ☐ Yes

   OR

   b. Stormwater runoff from a 2 yr, 24 rain event is **retained.** ☐ Yes

2. **If the impaired water has a TMDL,** confirm compliance by selecting 2.a. and 2.b. below and either question 2.c.1. or 2.c.2. below:

   a. The Plan documents there is sufficient remaining Waste Load Allocations (WLA) in the TMDL for the proposed discharge, ☐ Yes

   AND

   b. Control measures shall be implemented to assure the WLA will not be exceeded, ☐ Yes

   AND

   c. 1. Stormwater discharges will be monitored for the indicator pollutant identified in the TMDL, ☐ Yes

   OR

   2. The Plan documents specific requirements for stormwater discharges specified in the TMDL. ☐ Yes

Part VI: Pollution Control Plan Availability (check one of the following four categories)

☐ I am registering a Locally Exempt project and submitting the required electronic Plan (in Adobe™ PDF or similarly publically available format) pursuant to Section 3(c)(2)(E) of this permit.

- ☐ Plan is attached to this registration form
- ☐ Plan is available at the following Internet Address (URL): _____

☐ I am registering a Locally Approvable project and have chosen not to submit the Plan with this registration pursuant to Section 3(c)(1) of this permit.

☑ I am registering a Locally Approvable project and have chosen to make my Plan electronically available pursuant to Section 4(c)(2)(N) of this permit.

- ☑ Plan is attached to this registration form
- ☐ Plan is available at the following Internet Address (URL): _____

☐ I am registering a Locally exempt project and do not have the capability to submit the Plan electronically. Therefore, I am submitting a paper copy with this registration as Attachment E.

Part VII: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided.

For New Registrants:

"I hereby certify that I am making this certification in connection with a registration under such general permit, submitted to the commissioner by E OF CONNECTICUT DEPARTMENT OF TRANSPORTA for an activity located at CT-15 S, Orange, CT 06477 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, as amended by Public Act 12-172. 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."

For Re-registrants:

"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 _____ for an activity located at _____ 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 verify 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 verification 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 an other applicable law."

Signature of Registrant	
Domenic A. LaRosa, P.E.	District 3 Engineer
Name of Registrant (print or type)	Title (if applicable)
Signature of Preparer and Date (if different than above)	
Devin M. Racicot	Transportation Engineer 3
Name of Preparer (print or type)	Title (if applicable)

Part VIII: Professional Engineer (or Landscape Architect, where appropriate) Design Certification (for publically approvable and exempt projects)

The following certification must be signed by a Professional Engineer, or Landscape Architect where appropriate.

"I hereby certify that I am a 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 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION for an activity located at CT-15 S, Orange, CT 06477.
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."

Signature of Design Professional and Date	
David Cicia	23439
Name of Professional (print or type)	License Number

Affix P.E/L.A Stamp Here

Part IX: Reviewing Qualified Professional Certification

The following certification must be signed by a) a Conservation District reviewer OR, b) a qualified soil erosion and sediment control and/ or professional engineer

☐ **Review Certification by Conservation District:**

1.) District: _____

Date of Affirmative Determination: _____

" I am making this certification in connection with a registration under General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by _____ for an activity located at _____.

I have personally examined and am familiar with the information that provides the basis for this certification, and I affirm, based on the review described in Section 3(b)(11)(C) of this general permit and on the standard of care for such projects, that the Stormwater Pollution Control Plan is adequate to assure that the activity authorized under this general permit will comply with the terms and conditions of such general permit and that all stormwater management systems: (i) 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; (ii) will function properly as designed; (iii) are adequate to ensure compliance with the terms and conditions of this general permit; and (iv) will protect the waters of the state from pollution."

_____

Signature of District Professional and Date

_____ _____

Name of District Professional License Number (if applicable)

Or

☑ **Review Certification by Qualified Professional:**

Company Name: BL COMPANIES, INC.

Name: Michael Fisher, PE

License #: 21170

Level of independency of professional:

Required for all projects disturbing over 1 acre:

1. I verify I am not an employee of the registrant. ☑ Yes

2. I verify I have no ownership interest of any kind in the project for which the registration is being submitted. ☑ Yes

Required for projects with 15 or more acres of site disturbance (in addition to questions 1&2):

3. I verify I did not engage in any activities associated with the preparation, planning, designing or engineering of the soil erosion and sediment control plan or stormwater management systems plan for this registrant.

☐ Yes

4. I verify I am not under the same employ as any person associated with the preparation, planning, designing or engineering of the soil erosion and sediment control plan or stormwater management systems plan for this registrant.

☐ Yes

Part IX: Reviewing Qualified Professional Certification (continued)

"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 ATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATI for an activity located at CT-15 S, Orange, CT 06477 .
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 certify, based on my review of all information described in Section 3(b)(11)(C) of such general permit and on the standard of care for such projects, that I have made an 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, as amended by Public Act 12-172, 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."

Signature of Reviewing Qualified Professional

BL COMPANIES, INC. — Name of Reviewing Qualified Professional

21170 — License No.

Affix P.E./ L.A. Stamp Here

Note: Please submit the fee along with a completed, printed and signed Registration Form and all additional supporting documents to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

STORMWATER POLLUTION CONTROL PLAN

Interchange 57 Improvements on Route 15 Southbound
Orange, CT

State Project No.: 0106-0130
EzFile No. 73054

Connecticut Department of Transportation

May 25, 2021

This Stormwater Pollution Control Plan (SPCP) is prepared to comply with the requirements for the General Permit for Stormwater Discharges (GPSD) from Construction Activities. Also to be considered part of the SPCP are the proposed construction plans, special provisions, and the Connecticut Department of Transportation's "Standard Specifications for Roads, Bridges and Incidental Construction" (Form 818) including supplements thereto and the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control

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1. Site Description

Site Description

This project is located on Route 15 (the Wilbur Cross Parkway) at the interchange with Route 34 in the town of Orange. Project limits on Route 15 begin at the south face of structure No. 00766 (Mile Point 42.80) carrying Route 34 over Route 15 and run approximately 2500 feet south (Mile Point 42.33). The project limits also include the Exit 57 on-ramp to Route 15 southbound from Route 34 eastbound and the two inner loop off-ramps within the interchange.

The purpose of this project is to reduce the occurrence of crashes and congestion at the entrance ramp from Route 34 eastbound onto Route 15 southbound. The proposed improvements address a pattern of high rear-end crashes at the interchange by providing a Route 15 southbound acceleration lane from Route 34 eastbound.

Site work includes the proposed realignment of the Route 15 southbound entrance ramp from Route 34 eastbound and widening Route 15 southbound to accommodate an acceleration lane. The project also includes milling and overlaying of the interchanges inner loop off-ramps with high friction pavement. The remainder of the project involves reconstructing the embankment along Route 15 southbound and realigned entrance ramp. The median barrier along Route 15 southbound will also be replaced.

This project does not discharge to impaired waters and is in a residential area. This project is not within an aquifer protection area. A portion of this project is within a public water supply watershed. There are no known endangered species present within the project limits.

Steep topography, adjacent wetlands, contaminated soils, and areas of environmental sensitivity dictate the design of the proposed stormwater system.

Estimated Disturbed Area

The total area for this project site is 5.20 acres. Of this area, 2.36 acres will be disturbed by construction activities.

Estimated Runoff Coefficient

The runoff coefficient assumed for pavement is 0.9. For the pervious areas, a coefficient of 0.3 was assumed. For this project, the total area of impervious surface has increased due to widening of Route 15 and the realignment of the Route 15 on-ramp from Route 34.

Weighted C Value - Pre-Construction

$$\frac{(2.71 \text{ ac. x } 0.3) + (2.49 \text{ ac. x } 0.9)}{2.71 \text{ ac.} + 2.49 \text{ ac.}} = 0.59$$

Weighted C Value - Post-Construction

$$\frac{(1.98 \text{ ac. x } 0.3) + (3.22 \text{ ac. x } 0.9)}{1.98 \text{ ac.} + 3.22 \text{ ac.}} = 0.67$$

Receiving Waters

The name of the receiving water is wetlands associated with an intermittent watercourse, which drains to the Wepawaug River.

Extent of Wetlands on Site

There are approximately 230 square feet (0.005 acres) of wetlands within the project area. A total of 150 square feet (0.003 acres) of permanent wetland impact is expected for the project. The wetland systems are not expected to have adverse impacts. There is no floodplain impact for the project.

2. Construction Sequencing

The Contractor will be given approximately one (1) season for the construction of all phases of the project, from Spring of 2022 to Fall of 2022.

The suggested sequence of construction is as follows:

Stage 1 and 2

1. Conduct a preconstruction meeting.
2. Conduct the plan implementation inspection and clearly identify the limits of disturbance (LOD).
3. Install temporary pavement markings and temporary traffic barrier to shift Route 15 traffic to the left side of the roadway. Sawcut along the Route 15 southbound right shoulder.
4. Install erosion and sedimentation control measures at the effected inlets and at limits of disturbed slopes. Place protective fencing around environmentally sensitive areas.
5. Perform clearing and grubbing activities within the work area.
6. Excavate for roadway widening and remove pavement, concrete where required.
7. Construct embankment, steepened slope, and reinforced soil slope.
8. Install all drainage structures located within the work area to final grade and restore temporarily impacted wetland area.
9. The paved acceleration lane, shoulder, and ramp within the work area shall be constructed up to the bottom of the final pavement lift.
10. Furnishing and placing topsoil, turf establishment, and erosion control matting on all disturbed areas as shown on the plans.
11. Install guiderail to final elevation.
12. Remove temporary traffic barrier and place traffic drums in place of the temporary traffic barrier.
13. Provide a transition between the realigned ramp and existing ramp.

Stage 3

1. Fine mill 2.5” along the existing ramp from station 31+50 to 35+00. Place wedge course as required. Fine mill 2.5” along Route 15 southbound right shoulder as shown on the plans.
2. Place final lift of PMA S0.5 along the ramp and Route 15 southbound right shoulder and install final pavement markings.
3. Remove traffic drums and shift traffic onto realigned ramp.
4. Remove old ramp bituminous concrete pavement and concrete pavement, as required, and grade the area.
5. Fine mill the inner loop off-ramps and pave to the limits shown on the plans.
6. Pave final lift on inner loop off-ramps and place high friction surface treatment.
7. Install guiderail along the Route 15 southbound median as shown on the plans.
8. Perform final grading.
9. Final clean-up of project site to remove all dust and debris created from construction

activities.
10. Remove erosion and sedimentation controls upon permeant stabilization of slopes.

General Notes

1. Apply temporary stabilization measures for disturbed areas in accordance with page 8, Temporary Stabilization Practices.
2. Grade grass slopes and immediately stabilize. Establish turf, per plan, on all remaining disturbed areas.
3. Remove erosion controls when it is determined that disturbed areas have been stabilized. (This determination will be made by the Qualified Inspector).
4. All post-construction stormwater structures shall be cleaned of construction sediment and any remaining silt fence shall be removed prior to the filing of the "Notice of Termination Form".
5. Perform project cleanup.

If the construction sequencing activities create an area of disturbance with a total contributing drainage area of between two (2) acres and five (5) acres per discharge point, a temporary sediment trap must be provided and the Contractor must submit to the Engineer a revised SWPCP for review and approval. The SWPCP must include locations of the temporary sedimentation trap per discharge point with a capacity to contain 134 cubic yards per acre of material in accordance with the 2002 CT Erosion and Sedimentation Guidelines (2002 Guidelines). The Contractor shall provide an inspection and maintenance plan for the temporary sedimentation trap as part of the amended SWPCP.

If the areas of disturbance with a total contributing drainage area of more than five (5) acres per discharge point, a temporary engineered sedimentation basin must be provided and the Contractor must submit to the Engineer a revised SWPCP for review and approval. The SWPCP must include locations of the temporary engineered sedimentation basin designed and installed in accordance with the 2002 Guidelines. The Contractor shall provide an inspection and maintenance plan or the engineered sedimentation basin as part for the amended SWPCP.

3. Control Measures

Erosion and Sedimentation (E&S) Controls

The Department of Transportation (Department) will have a qualified inspector assigned to the project in order to oversee the Contractor's operations to ensure compliance with the provisions of the Contract. Further Department oversight is provided by the District III Environmental Coordinator and the Office of Environmental Planning.

The following timelines will be followed for the proposed construction activities:

- The Contractor shall stabilize disturbed areas with temporary or permanent measures as quickly as possible after the land is disturbed. Requirements for soil stabilization are detailed in Form 818 Section 1.10, Environmental Compliance.

- Areas that remain disturbed but inactive for at least 14 days shall receive temporary seeding or soil protection within seven (7) days.

- Areas that will be disturbed past the planting season will be covered with a long-term, non-vegetative stabilization method that will provide protection through the winter.

- If construction activities are completed to final grade, permanent seeding shall take place within seven (7) days. *(See Chapter 5 of the 2002 Guidelines)*

Department of Transportation projects are required to have Preconstruction Meetings with the Contractor. The Contractor is required to review and understand the Contract Plans and Specifications and to develop an E&S Plan for review and approval by the Engineer. The Contractor's E&S plan shall comply with the Stormwater Permit requirements for a double row of sediment control barriers at all disturbed locations. The following note (below) appears on the project Construction Plans.

Double Row of Erosion and Sediment Control Barriers

- A double row of sediment control barrier shall be utilized between any disturbed area and downgradient wetland or watercourse within 50 feet, unless there would be an adverse impact to adjacent wetlands/watercourses due to installation of a double row (i.e. would result in larger wetland/watercourse impact).
- Additional erosion control barriers (double row of SCS) may also be required within the project area. Factors to be reviewed by the Engineer include but are not limited to: the contributing disturbed area, drainage area, length of slope, and flow conditions to maintain sheet flow. If determined necessary, the Engineer will direct the Contractor to install and maintain additional rows of erosion control barrier (or equivalent).

Soil Stabilization and Protection

Temporary Stabilization Practices

The following methods of temporary stabilization shall be used:

- Erosion Control Matting: On slopes steeper than 3(h):1(v) erosion control matting shall be used to stabilize the topsoil or as necessary and directed by the Qualified Inspector.

- Sedimentation Control System (SCS): SCS shall be placed at the toe of the slope or as directed by the Qualified Inspector.

- Anti-Tracking Pads: Construction entrances (gravel anti-tracking pads) shall be constructed at truck access/exit points to off-road route. Access road(s) should grade away from the main roadway or waterbody.

- Dust Control: Routine sweeping and application of dust suppression agents, including but not limited to, water and calcium chloride, over exposed subbase shall be completed for dust control. Additional measures may be necessary to minimize dust within the project limits and within staging and stockpile areas.

- Temporary Seeding: On soils to be exposed for a period greater than 14 calendar days but less than 1 year, temporary seeding shall be used to temporarily stabilize the soil until permanent stabilization is be established.

- Catch Basin Inlet Protection: Catch basin inlet protection shall be used to reduce the amount of sediment entering the storm drainage system during construction.

Stabilization practices shall be implemented after completion, as final grades are reached, within seven (7) days.

Temporary seeding shall be spread over any disturbed areas which will remain inactive for at least 14 days. Areas to remain disturbed through winter shall be protected with non-vegetative stabilization measures. The Contractor must provide an Erosion and Sedimentation Control plan for each winter season during construction operations.

The Contractor may use other controls in the project as necessary if they conform to the 2002 Guidelines and are approved by the Engineer. The Contractor will be required to provide the necessary details for any erosion controls not specifically called for on the project plans.

During construction, all areas disturbed by the construction activity that have not been stabilized, structural control measures, and locations where vehicles enter or exit the site shall be inspected at least once a week and within 24 hours of the end of a storm that generates a discharge. For storms that end on a weekend, holiday or other time in which normal working hours will not commence within 24 hours, an inspection is required within 24 hours following any storm in

which 0.1 inches or greater of rain occurs. For lesser storms, inspection shall occur immediately upon the start of subsequent normal working hours.

Permanent Stabilization Practices

During construction, the following methods of permanent stabilization shall be installed:

- Erosion Control Matting (ECM): On slopes 3(h):1(v) or steeper, erosion control matting shall be used to stabilize the topsoil and as may be directed by the Qualified Inspector. See the Erosion and Sedimentation Control Plans in Appendix C for erosion control matting locations.
    - Erosion Control Matting (ECM) to be used in this project:
        - ECM Type B on slopes 3(h):1(v)
        - ECM Type D on slopes steeper that 3(h):1(v)
        - ECM Type G placed on grass channel

- Topsoiling: In conjunction with permanent seeding, once final grades have been established, topsoil shall be applied to provide a suitable growth medium for vegetation.

- Permanent Seeding: Once soils have been brought to final grade, permanent seeding shall be used to stabilize the soil with a vegetative cover**.** Disturbed areas below the wetland limit shall be seeded with a wetland seed mix and/or above the wetland limit shall be seeded with a conservation seed mix.

- Landscaping: Wood chip mulch shall be placed around the plants. Plantings (trees, shrubs etc.) may be planted along with the permanent seeding.

- Steepened Slope Protection: On slopes steeper than 2(h):1(v) and 1.5(h):1(v) or flatter, a steepened slope protection shall be used to avoid impacting wetlands.

All new embankments disturbed by construction and unpaved areas that are graded or disturbed by construction will receive erosion control matting, topsoil and/or turf establishment. The Contractor may use other permanent stabilization practices approved by the Qualified Inspector and conforming to 2002 Guidelines.

Structural Measures

The existing stormwater drainage system for the project site consists of small drainage area catch basins with reinforced concrete pipe connections to endwalls. The proposed stormwater drainage system consists of modifying the existing stormwater drainage system by adding a catch basin to system EO-1 at station 29+90.

Construction sequencing, detailed in section 2, allows the project to be constructed with no more than two (2) acres of exposed erodible soil at any one time. The following structural measures shall be

used to divert flows, limit runoff, and minimize the discharge of pollutants:

- Minimal Curbing: Curbing shall be avoided wherever possible to maximize overland sheet flow and encourage infiltration.

- Outlet Protection: Riprap outlet protection shall be used at the proposed outlet to decrease velocity and the potential for erosion. (i.e. apron, splash pad…)

- Catch Basins with Sumps: Catch basins with 2-foot sumps shall be used, especially adjacent to outlets, to intercept pollutants and debris.

- MS4 Measures: Sheet flow and a grass swale along the Route 15 southbound right edge of road within the project limits are included as water quality BMPs.

- Reinforced Soil Slope: A reinforced soil slope shall be used to stabilize slopes steeper than 1.5(h) to 1(v).

Maintenance

All construction activities and related activities shall conform to the requirements of Section 1.10 "Environmental Compliance" of the Department's Standard Specifications, Form 818. In general, all construction activities shall proceed in such a manner so as not to pollute any wetlands, watercourses, water body, and conduit carrying stormwater. The Contractor shall limit, in so far as possible, the surface area of earthen materials exposed by construction activity and immediately provide temporary and permanent pollution control to prevent soil erosion and contamination on the site. Water pollution control provisions and best management practices per Section 1.10, Environmental Compliance of the Standard Specifications shall be administered during construction. Control measures shall be inspected and maintained in accordance with the 2002 Guidelines and as directed by the Engineer.

4. Dewatering Wastewaters

Dewatering Guidelines

When dewatering is necessary, pumps used shall not be allowed to discharge directly into a wetland, watercourse or stormwater drainage system. Prior to any dewatering, the Contractor must submit to the Engineer a written proposal for specific methods and devices to be used, and must obtain the Engineer's written approval of such methods and devices, including, but not limited to, the pumping of water into a temporary sedimentation basin, providing surge protection at the inlet or outlet of pumps, floating the intake of a pump, or any other method for minimizing and retaining the suspended solids. If the Engineer determines that a pumping

operation is causing turbidity problems, the Contractor shall halt said operation until a means of controlling the turbidity is submitted by the Contractor in writing to the Engineer, approved in writing by the Engineer and implemented by the Contractor.

No discharge of dewatering wastewater shall contain or cause a visible oil sheen, floating solids or foaming in the receiving water. If required, all activities are to be performed in compliance with the Department's Form 818.

5. Post-Construction Stormwater Management

Post-construction Guidelines

After the project is complete, the Department will perform the following maintenance and restorative measures:

- Litter/debris and sweepings will be removed from the site regularly.
- Mowing and maintenance of the turf areas and vegetated areas will occur as needed.
- Riprap outlet protection will be inspected as needed.
- Stormwater drainage system will be cleaned of sediment/debris as directed by the Qualified Inspector.
- Identify, inspect, and/or maintain all stormwater quality BMP's included within the project, as per the MS4 or manufacturer recommendations.

Post Construction Performance Standards

This project is classified as "Linear Redevelopment" with a proposed effective impervious cover of approximately 62%. Accordingly, a goal of half the water quality volume (WQV) for the site should be retained within the site limits. The values below were calculated for the post-construction site conditions:

Effective Impervious Cover:

$$Effective\ Impervious\ Cover = \frac{Impervious\ Site\ Area\ (Acre)}{Total\ Site\ Area\ (Acre)} * 100\%$$

$$= \frac{3.22\ acres}{5.20\ acres} * 100\%$$

$$= 62\%$$

This project is considered a "linear project" due to the roadway widening and on-ramp realignment for Route 15 southbound. From existing conditions, the impervious area of the site

will increase slightly due to widening Route 15 southbound and the realignment of the southbound on-ramp at the exit 57 interchange. Retention of half the water quality volume will not be met due to constraints of steep roadside topography, adjacent wetlands, contaminated soils, and areas of environmental sensitivity. Steep topography and adjacent wetlands limit effective construction means to treat stormwater runoff. Additionally, areas of environmental sensitivity limit where infiltration or additional stormwater treatment measures can be installed. However, a roadside swale will be provided along the on-ramp entrance curve embankment as a stormwater treatment measure.

Runoff Reduction and LID Practices:

Due to the proposed roadway construction, the impervious cover will be increased from approximately 48% to 62%. Roadway widening and the on-ramp realignment results in a net impervious area increase from 2.49 acres to 3.22 acres. The total increase in impervious area is 0.73 acres.

Steep roadside slopes, adjacent wetlands, areas of environmental sensitivity, and increased impervious cover limit the opportunities for runoff reduction, the use of primary stormwater treatment measures, and Low Impact Development (LID). However, curbing is excluded along Route 15 right edge of pavement within the project limits to allow for sheet flow to conservation areas and wetlands.

Soils within the footprint of the project area conductive to infiltration practices. Group B, well-drained soil, is adjacent to the proposed roadway. Curbing is excluded to allow overland sheet flow to wetlands within the project limits.

Suspended Solids and Floatables Removal:

A goal of 80% removal of the average annual post-construction total suspended solids loads was used for this project. However, this goal will not be met due to the impeding factors stated for Runoff Reduction and LID Practices. Two-foot sumps for each proposed catch basin will be provided to remove initial suspended solids.

Velocity Dissipation:

Outfalls for the drainage systems have been inspected during site visits and were found to be in good condition. Reconstruction of the outfalls is not included.

6. Other Controls

Waste Disposal

Construction site waste shall be properly managed and disposed of during the entire construction period.

Additionally:

- A waste collection area will be designated. The selected area will minimize truck travel through the site and will not drain directly to the adjacent wetlands.
- Waste collection shall be scheduled regularly to prevent the containers from overfilling.
- Spills shall be cleaned up immediately and in accordance with Best Management Practices as outlined in Section 1.10 of the Standard Specifications.
- Defective containers that may cause leaks or spills will be identified through regular inspection. Any found to be defective will be repaired or replaced immediately.
- Any stockpiling of materials should be confined to the designated area as approved by the engineer.

Washout Areas

Washout of applicators, containers, vehicles, and equipment for concrete shall be conducted in a designated washout area. No surface discharge of washout wastewaters from the area will be allowed. All concrete wash water will be directed into a container or pit such that no overflows can occur. Washout shall be conducted in an entirely self-contained system and will be clearly designed and flagged or signed where necessary. The washout area shall be located outside of any buffers and at least 50 feet from any stream, wetland or other sensitive water or natural resources as determined or designated by the Department's Office of Environmental Planning or the Qualified Inspector.

Washout Area(s) will be site located by the Contractor, approved by the engineer and the SWPCP revised as appropriate. The "Concrete Washout Area" detail **(*See link*** https://portal.ct.gov/-/media/DOT/documents/dpolicy/WaterNoiseCompliance/HelpfulDesign/ConcreteWashoutDetailpdf.pdf) shows the recommended method of construction for the washout area. The designated area shall be designed and maintained such that no overflows can occur during rainfall or after snowmelt.

Anti-tracking Pads and Dust Control (Form 818- Sections 2.11/9.39/9.42/9.43)

Off –site vehicle tracking of sediments and the generation of dust shall be minimized. Temporary anti-tracking pads from the active work site to the existing pavement will be installed and maintained at the locations shown on the plans.

The Contractor shall:

- Maintain the entrance in a condition which will prevent tracking and washing of sediment onto paved surfaces.
- Provide periodic top dressing with additional stone or additional length as conditions demand.
- Repair any measures used to trap sediment as needed.
- Immediately remove all sediment spilled, dropped, washed or tracked onto paved surfaces.
- Ensure roads adjacent to a construction site are left clean at the end of each day.

If the construction entrance is being properly maintained and the action of a vehicle traveling over the stone pad is not sufficient to remove the majority of the sediment, then the contractor shall either:

- Increase the length of the construction entrance,
- Modify the construction access road surface, or
- Install washing racks and associated settling area or similar devices before the vehicle enters a paved surface.

For construction activities which cause airborne particulates, wet dust suppression shall be utilized. Construction site dust will be controlled by sprinkling the ground surface with water until it is moist on an as-needed basis. The volume of water sprayed shall be such that it suppresses dust yet also prevents the runoff of water.

Post-Construction

Upon completion of construction activities and stabilization of the site, all post-construction stormwater structures, including catch basins and endwalls, shall be cleaned of construction sediment and any remaining silt fence shall be removed prior to acceptance of the project by the Department. Sediment shall be properly disposed of in accordance with all applicable laws, regulations and guidelines.

Maintaining and Storing Vehicles and Equipment

The Contractor shall take measures to prevent any contamination to wetlands and watercourses while maintaining and storing construction equipment on the site. All chemical and petroleum containers stored on site shall be provided with impermeable containment which will 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 area. All chemicals and their containers shall be stored under a roofed area except for those stored in containers of 100 gallon capacity or more, in which case double-walled tanks will suffice.

7. Inspections

The qualified inspector conducting inspections shall submit a Construction Site Environmental Inspection Report (CSEIR) for each inspection described below. The District Environmental Coordinator or Qualified Inspector will be required to report this monthly to the Department of Energy and Environmental Protection (DEEP) electronically. Each report shall be retained as a part of the SWPCP. The report shall include a statement that, in the judgement 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 to compliance, see section 8. Keeping Plans Current.

Inspection Guidelines

For each phase of construction, the site shall be inspected at least once within the first 30 days of construction activity and at least three times, with 7 or more days between inspections, within the first 90 days of construction activity to confirm compliance and proper initial implementation of all control measures.

The Permittee will maintain a rain gauge on-site to document rainfall amounts. During construction, all areas disturbed by the construction activity that have not been stabilized, all erosion and sedimentation control measures, all structural control measures, soil stockpile areas, washout areas and locations where vehicles enter or exit the site shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and impacts to receiving waters at least once every seven (7) calendar days and within 24 hours of the end of a storm that generates a discharge.

For storms that end on a weekend, holiday, or other time in which working hours will not commence within 24 hours, an inspection is required within 24 hours following any storm in which 0.1 inches or greater of rain occurs. For lesser storms, inspection shall occur immediately upon the start of subsequent normal working hours.

Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least weekly until final stabilization has been achieved.

Qualified inspectors provided by the Department's District III Office shall conduct inspections.

The following items shall be inspected as described below:

Item	Procedure
Sedimentation Control System (SCS)	The SCS shall be inspected to ensure that the fence line is intact with no breaks or tears. The fence shall be firmly anchored to the ground. Areas where the fence is excessively sagging or where support posts are broken or uprooted shall be noted. Depth of sediment behind the fence shall be noted if sediment needs to be removed.
Concrete Washout Area	Containers or pits shall be inspected at least once a week to ensure structural integrity, adequate holding capacity and will be repaired prior to future use if leaks are present. The contractor shall remove hardened concrete waste when it accumulates to a height of ½ of the container or pit or as necessary to avoid overflows. All concrete waste shall be disposed of in a manner consistent will all applicable laws, regulations and guidelines.
Erosion Control Matting	Inspect temporary erosion control matting at least once a week and within the next business day of the end of a storm with a rainfall amount of 0.5 inches or greater for failures.
Catch Basin Protection	Protective measures shall be inspected to ensure that sediment is not entering the catch basins. Catch basin sumps shall be monitored for sediment deposition. Hay bales shall be inspected to ensure they have not clogged.
Anti-tracking Pad	Locations where vehicles enter or exit the site shall be inspected for evidence of off-site tracking.
Dust Control	Measures shall be taken for the purpose of allaying (diminishing) dust conditions. Measures may include the use of sweeping equipment and/or the application of water or calcium chloride.
General	Construction areas and the perimeter of the site shall be inspected for any evidence of debris that may blow or wash off site or that has blown or washed off site. Construction areas shall be inspected for any spills or unsafe storage of materials that could pollute off site waters.

Post-Construction Inspection

Upon completion of construction activities and stabilization of the site, all post-construction stormwater structures shall be cleaned of construction sediment or debris and the site inspected to confirm compliance with all post-construction stormwater management requirements. Sediment shall be properly disposed of in accordance with all applicable laws, regulations, and guidelines. Any remaining sediment control system(s) (SCS) shall be removed prior to acceptance of the project by the Department.

Final Stabilization Inspection

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 site shall be inspected to confirm stabilization is maintained, and a Notice of Termination form shall be submitted.

8. Keeping Plans Current

Revisions to Stormwater Pollution Control Plans

The Department shall amend the Plan if the actions required by the Plan fail to prevent pollution or otherwise comply with provisions of the General Permit. The Plan shall also be amended whenever there is a change in contractors or sub-contractors at the site, or a change in design, construction, operation, or maintenance at the site which has not otherwise been addressed in the plan.

If the results of the inspections require modifications to the Stormwater Pollution Control Plan, the plans shall be revised as soon as practicable after the inspection. Such modifications shall provide for a timely implementation of any changes to non-engineered controls on the site within 24 hours and implementation of any changes to the plan within 3 (three) calendar days following the inspection. For Engineered measures, corrective actions shall be implemented on site within 7 (seven) days and incorporated into a revised Plan within 10 (ten) days of the date of inspection.

In no event shall the requirements to keep the Plan current or update a Plan, relieve the permittee and their contactor(s) of the responsibility to properly implement any actions required to protect the waters of the State and to comply with all conditions of the permit.

9. Contractors

General

This section shall identify all Contractors and Subcontractors who will perform on site actions which may reasonably be expected to cause or have the potential to cause pollution of the waters of the State.

Certification Statement

All contractors and subcontractors must sign the attached statement. All certification will be included in the Stormwater Pollution Control Plan.

State Project No. 0106-0130

Interchange 57 Improvements on Route 15 Southbound
Orange, CT

"I certify under penalty of 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 Contractor on the project, I am covered by this General Permit, and must comply with the terms and conditions of this permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for this project."

GENERAL CONTRACTOR

Signed:_____ Date:_____

Title:_____

Firm:_____ Telephone:_____

Address:_____

_____

_____

SUBCONTRACTOR

Signed:_____ Date:_____

Title:_____

Firm:_____ Telephone:_____

Address:_____

_____

General:

This Stormwater Pollution Control Plan (SPCP) is prepared to comply with the requirements for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. Also to be considered part of the SPCP are the proposed construction plans, special provisions, and the Connecticut Department of Transportation's "Standard Specifications for Roads, Bridges and Incidental Construction" (Form 818) including supplements thereto and the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control and 2004 Stormwater Quality Manual.

List of applicable Figures / Plans:

Appendix A - Figures

USGS Map	Figure A-1
Soil Map	Figure A-2
Site Map	Figure A-3
Impervious Area Percentage	Figure A-4

Appendix B – Drainage Calculations

Map of Disturbed/Erodible Area	Figure B-1
Water Quality Computations	Figure B-2

Appendix C – Plan Sheets

Erosion and Sedimentation Control	Figure C-1
Miscellaneous Details	Figure C-2

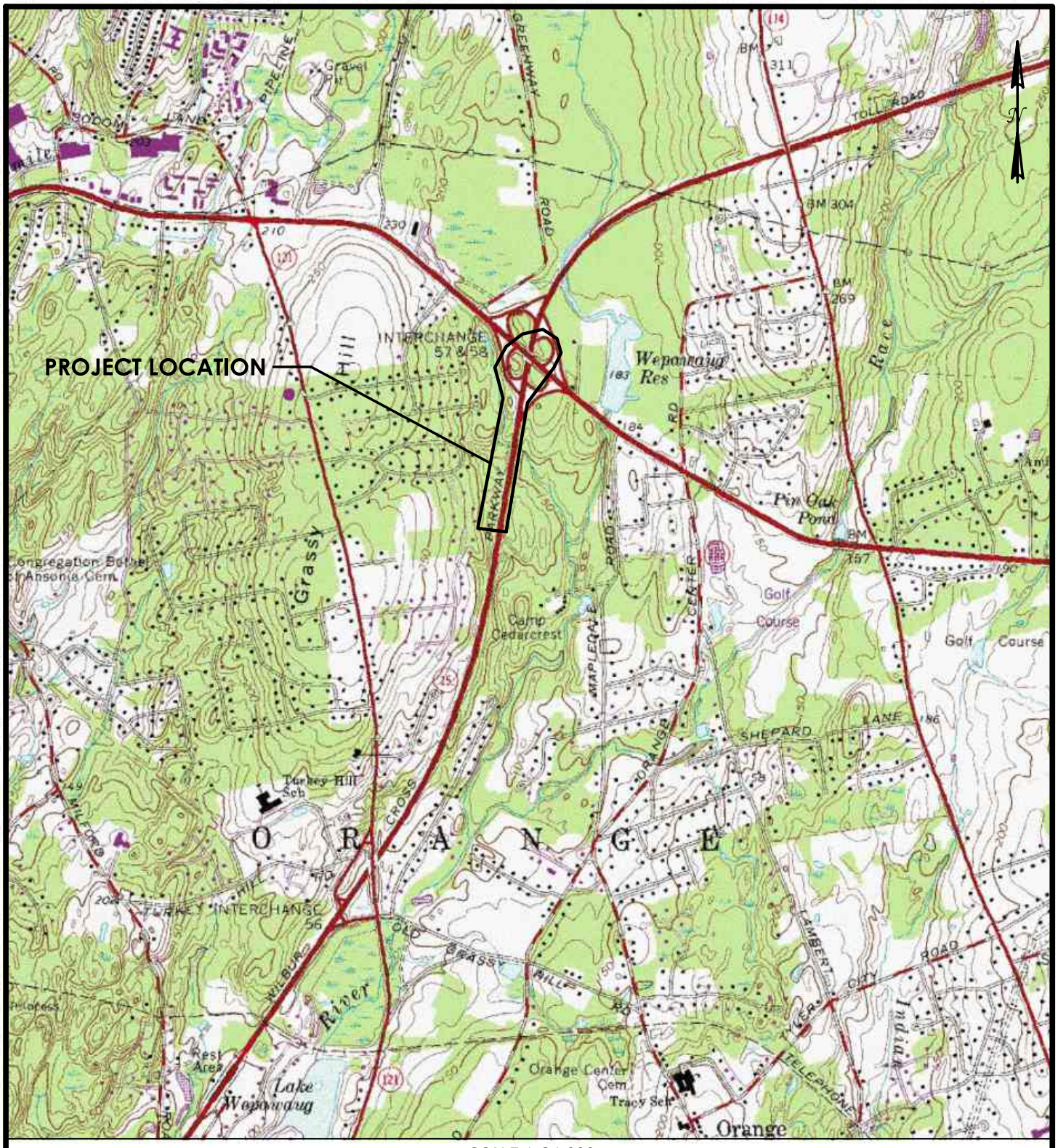
Appendix D – CTDOT MS4 Project Design Maximum Extent Practicable Worksheet

Appendix E – Construction Site Environmental Inspection Report (CSEIR)

Appendix F – Notice of Termination Form

Appendix A – Figures

USGS Map (Figure A-1)
Soil Map (Figure A-2)
Site Map (A-3)
Impervious Area Percentage (Figure A-4)



SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

ATTACHMENT

PROJECT NO. 0106-0130

INTERCHANGE 57 IMPROVEMENTS
ON ROUTE 15 SOUTHBOUND

COUNTY: NEW HAVEN
CITY/TOWN: ORANGE

DATE: FEBRUARY 2021

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

APPLICATION BY:
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

ANSONIA CONN.
41073-C1-TF-024
1964
PHOTOREVISED 1984
DMA 6366 I SE-SERIES V816
QUAD NO. 94

FIGURE A-1

Soil Map—State of Connecticut
(Project 0106-0130 - Town of Orange)

Map Scale: 1:8,850 if printed on A portrait (8.5" x 11") sheet.

Meters: 0 100 200 400 600

Feet: 0 400 800 1600 2400

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

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

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

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

Water Features
- Streams and Canals

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

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

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 20, Jun 9, 2020

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

Date(s) aerial images were photographed: Mar 28, 2011—Jul 22, 2014

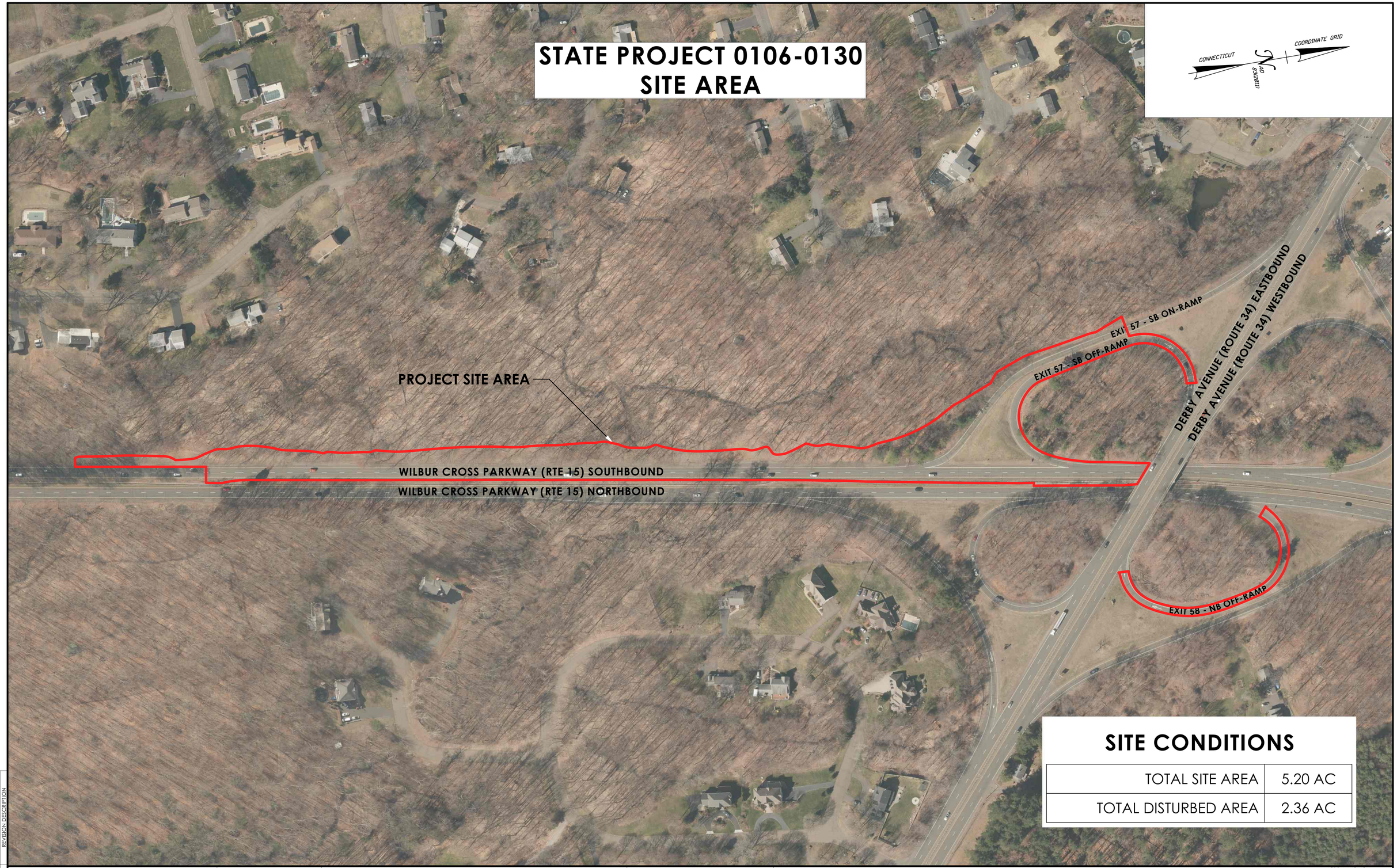
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	28.4	7.1%
4	Leicester fine sandy loam	23.2	5.8%
29A	Agawam fine sandy loam, 0 to 3 percent slopes	11.6	2.9%
29B	Agawam fine sandy loam, 3 to 8 percent slopes	44.4	11.1%
29C	Agawam fine sandy loam, 8 to 15 percent slopes	10.4	2.6%
60B	Canton and Charlton fine sandy loams, 3 to 8 percent slopes	66.0	16.5%
60C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes	54.4	13.6%
60D	Canton and Charlton soils, 15 to 25 percent slopes	19.5	4.9%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	25.1	6.3%
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	36.4	9.1%
260B	Charlton-Urban land complex, 3 to 8 percent slopes	12.0	3.0%
306	Udorthents-Urban land complex	33.3	8.3%
701A	Ninigret fine sandy loam, 0 to 3 percent slopes	21.6	5.4%
701B	Ninigret fine sandy loam, 3 to 8 percent slopes	4.0	1.0%
W	Water	9.5	2.4%
Totals for Area of Interest		**399.9**	**100.0%**

FIGURE A-2

STATE PROJECT 0106-0130
SITE AREA



SITE CONDITIONS

TOTAL SITE AREA	5.20 AC
TOTAL DISTURBED AREA	2.36 AC

REVISION DESCRIPTION | DATE | REV.

DESIGNER/DRAFTER: M.CARVALHO CHECKED BY: D.RACICOT

0 100' 200'
HORIZONTAL SCALE
1" = 100'

SIGNATURE/
BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0106-0130
PROJECT DESCRIPTION: Interchange 57 Improvements on Route 15 Southbound
TOWN(S): Orange
DRAWING TITLE: SITE AREA

DRAWING NO. FIGURE A-3
SHEET NO.

LASTED SAVED BY: carvalhoma **FILE NAME:** D:\Users\carvalhoma\Connecticut Department of Transportation\0106-0130 - Internal Documents\330_Design_Data\Highways\MSta_Contract_Sheet_Files\Plan\Stormwater Pollution Control Plans\HW_NC_0106_0130_Site_Area.dgn
PLOTTED DATE: 3/10/2021

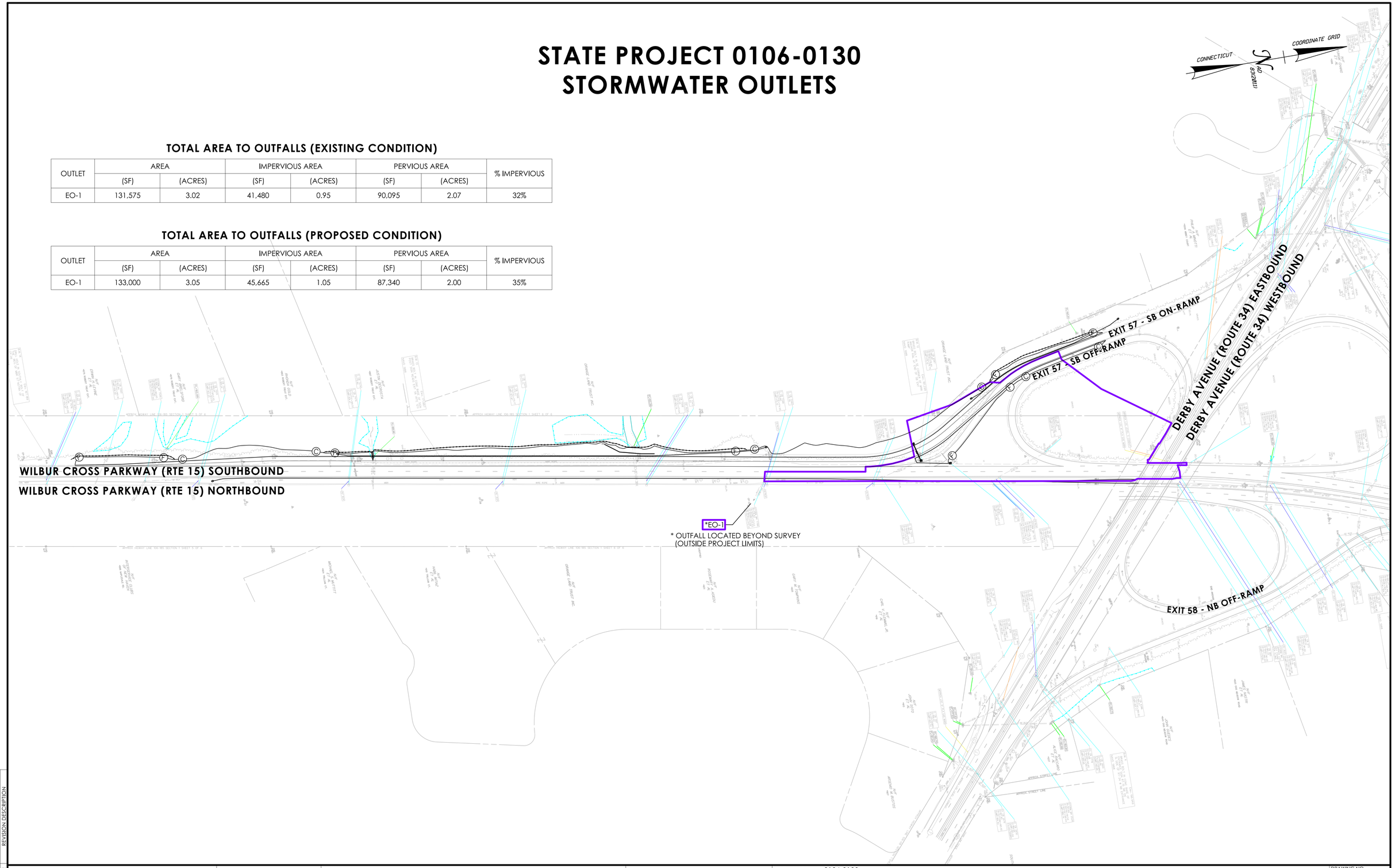
STATE PROJECT 0106-0130
STORMWATER OUTLETS

TOTAL AREA TO OUTFALLS (EXISTING CONDITION)

OUTLET	AREA		IMPERVIOUS AREA		PERVIOUS AREA		% IMPERVIOUS
	(SF)	(ACRES)	(SF)	(ACRES)	(SF)	(ACRES)	
EO-1	131,575	3.02	41,480	0.95	90,095	2.07	32%

TOTAL AREA TO OUTFALLS (PROPOSED CONDITION)

OUTLET	AREA		IMPERVIOUS AREA		PERVIOUS AREA		% IMPERVIOUS
	(SF)	(ACRES)	(SF)	(ACRES)	(SF)	(ACRES)	
EO-1	133,000	3.05	45,665	1.05	87,340	2.00	35%



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: M.CARVALHO CHECKED BY: D.RACICOT

0 100' 200'
HORIZONTAL SCALE
1" = 100'

SIGNATURE/
BLOCK:

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

PROJECT NUMBER: 0106-0130
PROJECT DESCRIPTION: Interchange 57 Improvements on Route 15 Southbound
TOWN(S): Orange
DRAWING TITLE: STORMWATER OUTLETS

DRAWING NO.
FIGURE A-4
SHEET NO.

LAST SAVED BY: M.CARVALHO **FILE NAME:** C:\Users\CarvalhoM\Connecticut Department of Transportation\0106-0130 - Internal Documents\330_Design_Data\Highways\Hwdg_Contract_Sheet_Files\Plan\Stormwater Pollution Control Plans\HW_NC_0106_0130_Drainage_Area.dgn
PLOTTED DATE: 9/26/2021

Appendix B – Drainage Calculations

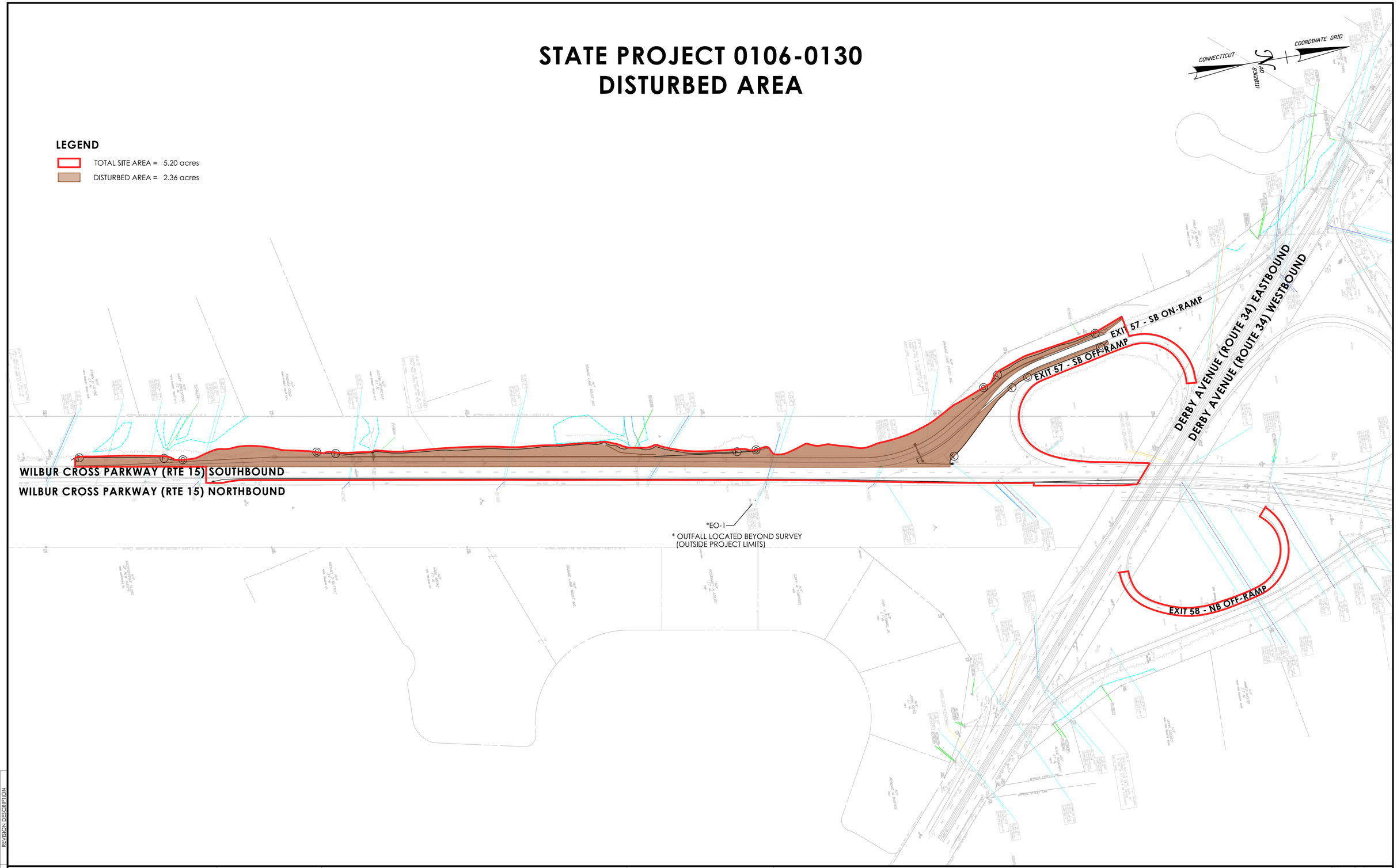
Map of Disturbed/Erodible Area (Figure B-1)
Water Quality Calculations (Figure B-2)

STATE PROJECT 0106-0130
DISTURBED AREA

LEGEND

TOTAL SITE AREA = 5.20 acres

DISTURBED AREA = 2.36 acres



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: M.CARVALHO CHECKED BY: D.RACICOT

HORIZONTAL SCALE 1" = 100' (0, 100', 200')

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0106-0130
PROJECT DESCRIPTION: Interchange 57 Improvements on Route 15 Southbound
TOWN(S): Orange
DRAWING TITLE: DISTURBED AREA

DRAWING NO. FIGURE B-1
SHEET NO.

LAST SAVED BY: M.CARVALHO **FILE NAME:** D:\Users\CarvalhoM\Connecticut Department of Transportation\0106-0130 - Internal Documents\SSD_Design_Data\Highways\WSIB_Contract_Sheet_Files\Plan\Stormwater Pollution Control Plans\HW_XC_0106_0130_DisturBed Area.dgn
PLOTTED DATE: 5/25/2021

PROJECT	0106-0130	PREPARED BY	M. Carvalho
DATE	1/20/2021	CHECKED BY	D. Racicot
SUBJECT	Site Water Quality Volume (WQV)		

SUBCATCHMENT AREAS

	Area (acres)		
Outfall ID	Impervious Area	Pervious Area	Total Area
EO-1	0.99	0.88	1.87
Total	**0.99**	**0.88**	**1.87**

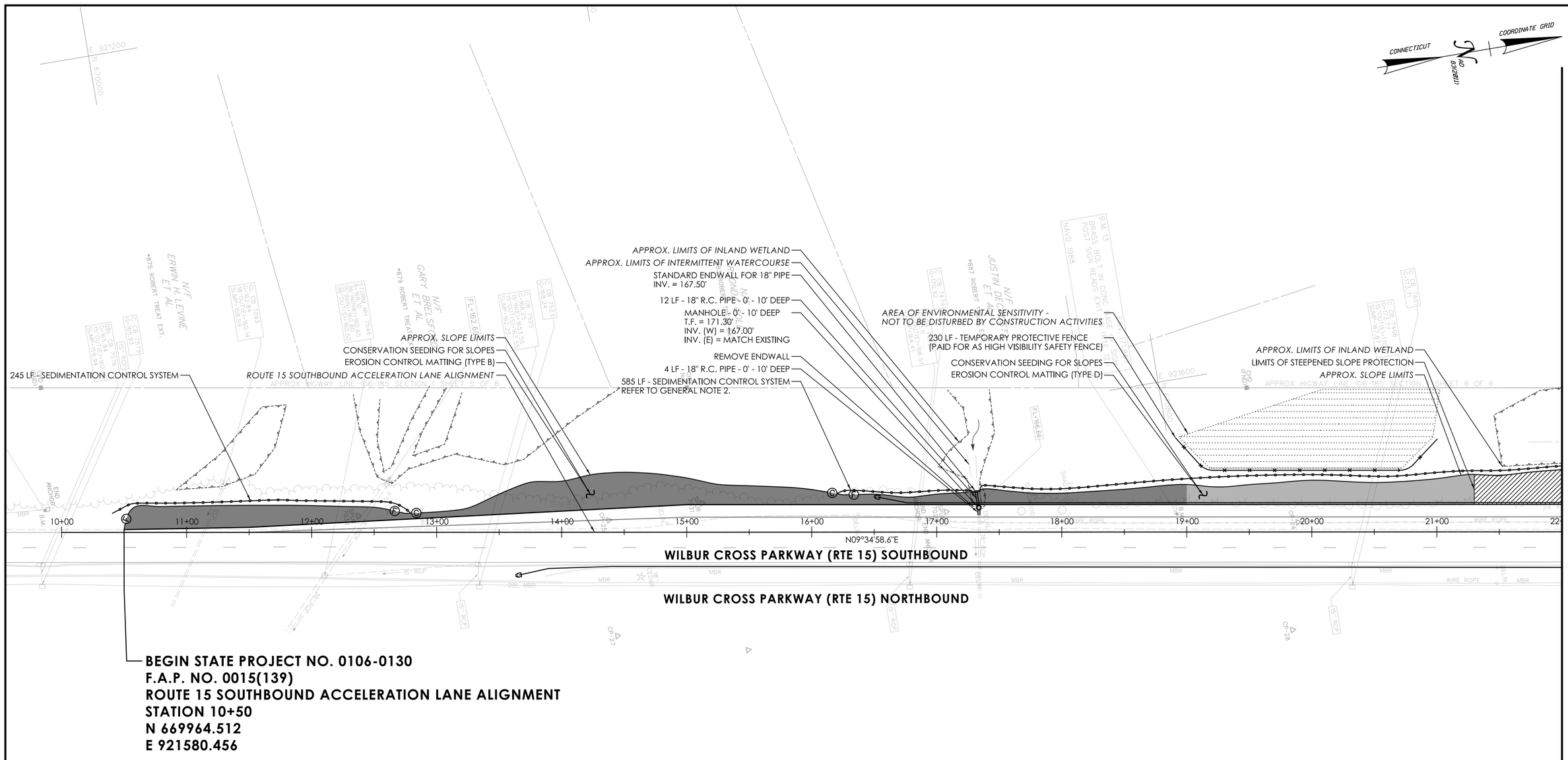
WATER QUALITY VOLUME (WQV) CALCULATION

Area (A) =	1.87	acres
Area (A) =	0.00292	square miles
Design Precipitation (P) =	1	inch
% Impervious Cover (I) =	53	%
Volumetric Runoff Coefficient (R) =	0.527	

WQV =	**0.082**	**ac-ft**
1/2 WQV =	**0.041**	**ac-ft**
1/2 WQV =	**1789**	**cu-ft**

Appendix C – Plan Sheets

Erosion and Sedimentation Control Plan (Figure C-1)
Miscellaneous Details (Figure C-2)



LEGEND

- EROSION CONTROL MATTING (TYPE B)
- EROSION CONTROL MATTING (TYPE D)

GENERAL NOTES

1. PLACE EROSION CONTROL MATTING (TYPE B) ON SLOPES 3(h):1(v) OR FLATTER AND PLACE EROSION CONTROL MATTING (TYPE D) ON SLOPES STEEPER THAN 3(h):1(v).
2. A DOUBLE ROW OF SEDIMENT CONTROL BARRIER SHALL BE UTILIZED BETWEEN ANY DISTURBED AREA AND DOWNGRADIENT WETLAND OR WATERCOURSE WITHIN 50 FEET, UNLESS THERE WOULD BE AN ADVERSE IMPACT TO ADJACENT WETLANDS/WATERCOURSES DUE TO INSTALLATION OF A DOUBLE ROW.

   ADDITIONAL EROSION CONTROL BARRIERS (DOUBLE ROW OF SCS) MAY ALSO BE REQUIRED WITHIN THE PROJECT AREA. FACTORS TO BE REVIEWED BY THE ENGINEER INCLUDE BUT ARE NOT LIMITED TO: THE CONTRIBUTING DISTURBED AREA, DRAINAGE AREA, SLOPE, LENGTH OF SLOPE, AND FLOW CONDITIONS TO MAINTAIN SHEET FLOW. IF DETERMINED NECESSARY, THE ENGINEER WILL DIRECT THE CONTRACTOR TO INSTALL AND MAINTAIN ADDITIONAL ROWS OF EROSIONS CONTROL BARRIER (OR EQUIVALENT).
3. THE PROPOSED DRAINAGE STRUCTURES SHALL BE INSTALLED IN THE DRY.

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: M.CARVALHO CHECKED BY: D.RACICOT

0 40' 80'
HORIZONTAL SCALE
1" = 40'

SIGNATURE/
BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0106-0130
PROJECT DESCRIPTION: Interchange 57 Improvements on Route 15 Southbound
TOWN(S): Orange
DRAWING TITLE: EROSION AND SEDIMENTATION CONTROL PLAN

DRAWING NO. E&S-01
SHEET NO.

LASTED SAVED BY: carvalhoma FILE NAME: D:\Users\carvalhoma\Connecticut Department of Transportation\0106-0130 - Internal Documents\330_Design_Data\Highways\MSIa_Contract_Sheet_Files\Plan\Stormwater Pollution Control Plans\HW_NC_0106_0130_E&S.dgn
PLOTTED DATE: 5/26/2021

FIGURE C-1

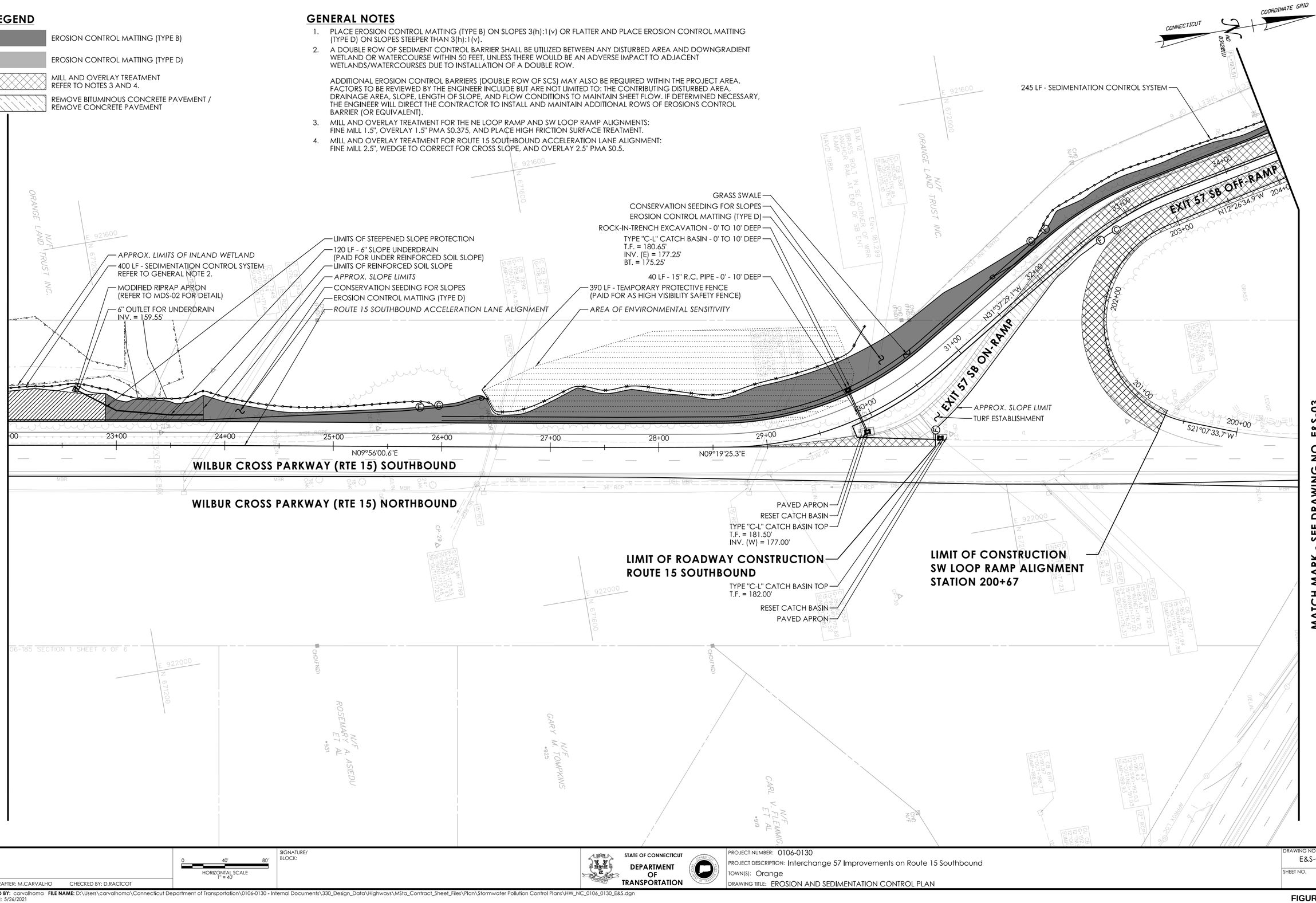
LEGEND

- EROSION CONTROL MATTING (TYPE B)
- EROSION CONTROL MATTING (TYPE D)
- MILL AND OVERLAY TREATMENT REFER TO NOTES 3 AND 4.
- REMOVE BITUMINOUS CONCRETE PAVEMENT / REMOVE CONCRETE PAVEMENT

GENERAL NOTES

1. PLACE EROSION CONTROL MATTING (TYPE B) ON SLOPES 3(h):1(v) OR FLATTER AND PLACE EROSION CONTROL MATTING (TYPE D) ON SLOPES STEEPER THAN 3(h):1(v).
2. A DOUBLE ROW OF SEDIMENT CONTROL BARRIER SHALL BE UTILIZED BETWEEN ANY DISTURBED AREA AND DOWNGRADIENT WETLAND OR WATERCOURSE WITHIN 50 FEET, UNLESS THERE WOULD BE AN ADVERSE IMPACT TO ADJACENT WETLANDS/WATERCOURSES DUE TO INSTALLATION OF A DOUBLE ROW.

   ADDITIONAL EROSION CONTROL BARRIERS (DOUBLE ROW OF SCS) MAY ALSO BE REQUIRED WITHIN THE PROJECT AREA. FACTORS TO BE REVIEWED BY THE ENGINEER INCLUDE BUT ARE NOT LIMITED TO: THE CONTRIBUTING DISTURBED AREA, DRAINAGE AREA, SLOPE, LENGTH OF SLOPE, AND FLOW CONDITIONS TO MAINTAIN SHEET FLOW. IF DETERMINED NECESSARY, THE ENGINEER WILL DIRECT THE CONTRACTOR TO INSTALL AND MAINTAIN ADDITIONAL ROWS OF EROSIONS CONTROL BARRIER (OR EQUIVALENT).
3. MILL AND OVERLAY TREATMENT FOR THE NE LOOP RAMP AND SW LOOP RAMP ALIGNMENTS: FINE MILL 1.5", OVERLAY 1.5" PMA S0.375, AND PLACE HIGH FRICTION SURFACE TREATMENT.
4. MILL AND OVERLAY TREATMENT FOR ROUTE 15 SOUTHBOUND ACCELERATION LANE ALIGNMENT: FINE MILL 2.5", WEDGE TO CORRECT FOR CROSS SLOPE, AND OVERLAY 2.5" PMA S0.5.



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: M.CARVALHO CHECKED BY: D.RACICOT

0 40' 80' HORIZONTAL SCALE 1" = 40'

SIGNATURE/ BLOCK:

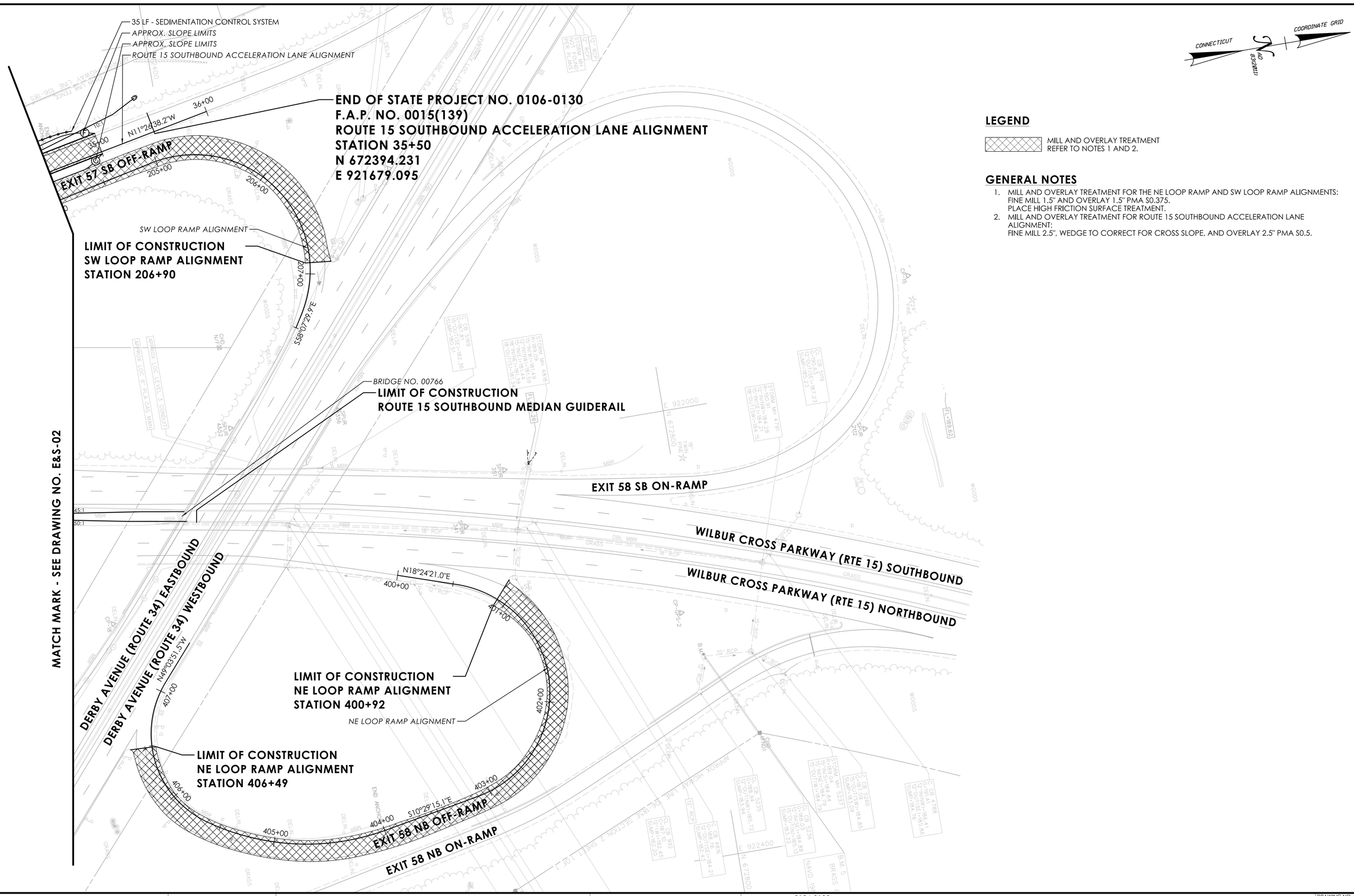
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0106-0130
PROJECT DESCRIPTION: Interchange 57 Improvements on Route 15 Southbound
TOWN(S): Orange
DRAWING TITLE: EROSION AND SEDIMENTATION CONTROL PLAN

DRAWING NO. E&S-02
SHEET NO.

LASTED SAVED BY: carvalhoma **FILE NAME:** D:\Users\carvalhoma\Connecticut Department of Transportation\0106-0130 - Internal Documents\330_Design_Data\Highways\MSTa_Contract_Sheet_Files\Plan\Stormwater Pollution Control Plans\HW_NC_0106_0130_E&S.dgn
PLOTTED DATE: 5/26/2021

FIGURE C-1



LEGEND

MILL AND OVERLAY TREATMENT
REFER TO NOTES 1 AND 2.

GENERAL NOTES

1. MILL AND OVERLAY TREATMENT FOR THE NE LOOP RAMP AND SW LOOP RAMP ALIGNMENTS:
   FINE MILL 1.5" AND OVERLAY 1.5" PMA S0.375.
   PLACE HIGH FRICTION SURFACE TREATMENT.
2. MILL AND OVERLAY TREATMENT FOR ROUTE 15 SOUTHBOUND ACCELERATION LANE ALIGNMENT:
   FINE MILL 2.5", WEDGE TO CORRECT FOR CROSS SLOPE, AND OVERLAY 2.5" PMA S0.5.

REVISION DESCRIPTION | DATE | REV.

DESIGNER/DRAFTER: M.CARVALHO CHECKED BY: D.RACICOT

0 40' 80'
HORIZONTAL SCALE
1" = 40'

SIGNATURE/
BLOCK:

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

PROJECT NUMBER: 0106-0130
PROJECT DESCRIPTION: Interchange 57 Improvements on Route 15 Southbound
TOWN(S): Orange
DRAWING TITLE: EROSION AND SEDIMENTATION CONTROL PLAN

DRAWING NO. E&S-03
SHEET NO.

LASTED SAVED BY: carvalhoma **FILE NAME:** D:\Users\carvalhoma\Connecticut Department of Transportation\0106-0130 - Internal Documents\330_Design_Data\Highways\MSTa_Contract_Sheet_Files\Plan\Stormwater Pollution Control Plans\HW_NC_0106_0130_E&S.dgn
PLOTTED DATE: 5/26/2021

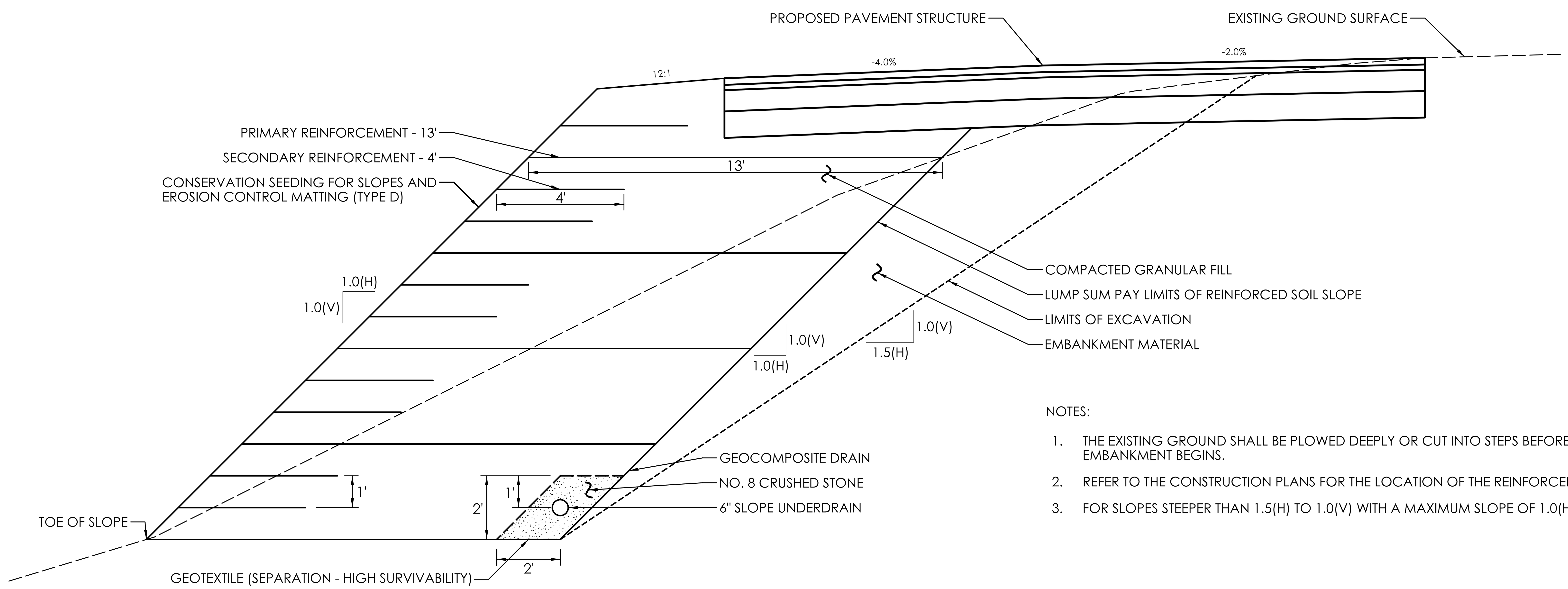
FIGURE C-1

NOTES:

1. THE EXISTING GROUND SHALL BE PLOWED DEEPLY OR CUT INTO STEPS BEFORE FILLING OF EMBANKMENT BEGINS.
2. REFER TO THE CONSTRUCTION PLANS FOR THE LOCATION OF THE STEEPENED SLOPE.
3. FOR SLOPES STEEPER THAN 2(H) TO 1(V) WITH A MAXIMUM SLOPE OF 1.5(H) TO 1(V).

STEEPENED SLOPE PROTECTION

(STA. 21+30 TO 22+90)
NOT TO SCALE



NOTES:

1. THE EXISTING GROUND SHALL BE PLOWED DEEPLY OR CUT INTO STEPS BEFORE FILLING OF EMBANKMENT BEGINS.
2. REFER TO THE CONSTRUCTION PLANS FOR THE LOCATION OF THE REINFORCED SOIL SLOPE.
3. FOR SLOPES STEEPER THAN 1.5(H) TO 1.0(V) WITH A MAXIMUM SLOPE OF 1.0(H) TO 1.0(V).

REINFORCED SOIL SLOPE (TYPICAL)

(STA. 22+90 TO 23+80)
NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: M.CARVALHO CHECKED BY: D.RACICOT

SCALE AS NOTED

SIGNATURE/ BLOCK:

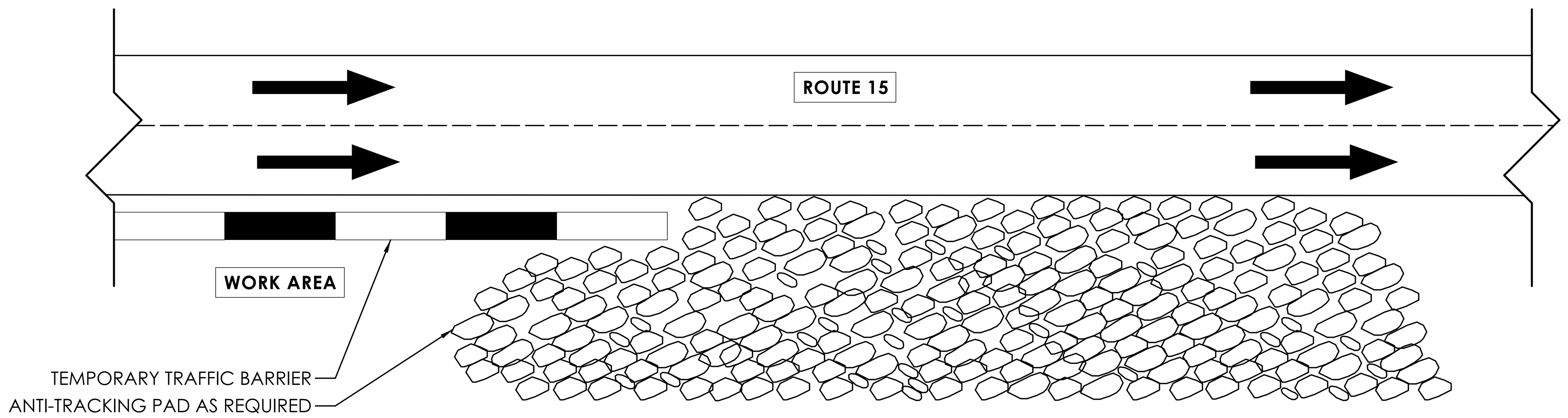
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0106-0130
PROJECT DESCRIPTION: Interchange 57 Improvements on Route 15 Southbound
TOWN(S): Orange
DRAWING TITLE: MISCELLANEOUS DETAILS

DRAWING NO. MDS-01
SHEET NO.

Details.dgn
PLOTTED DATE: 5/26/2021

FIGURE C-2

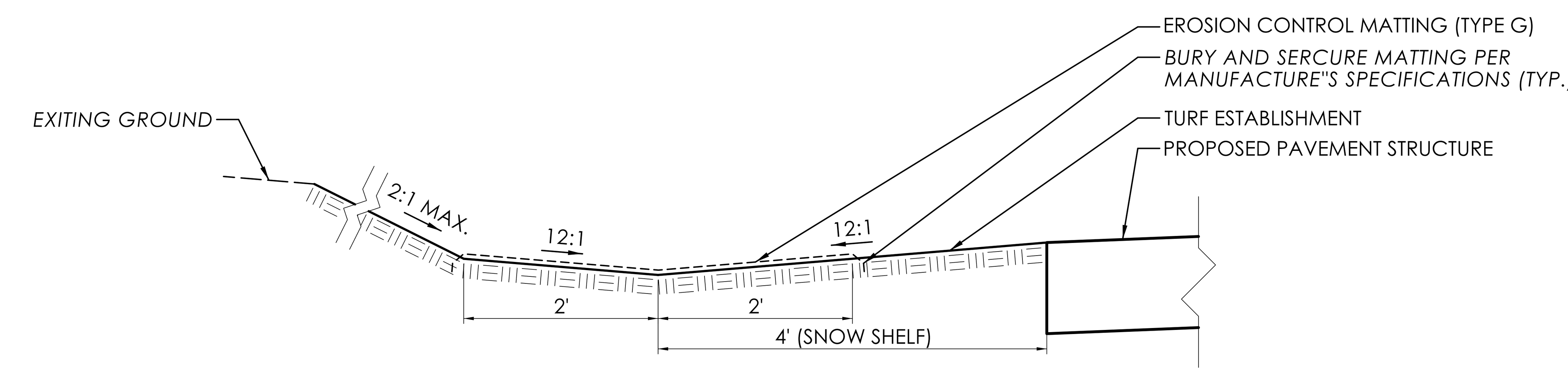


NOTES:

1. ANTI-TRACKING PAD SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 2.11 OF THE STANDARD SPECIFICATIONS.

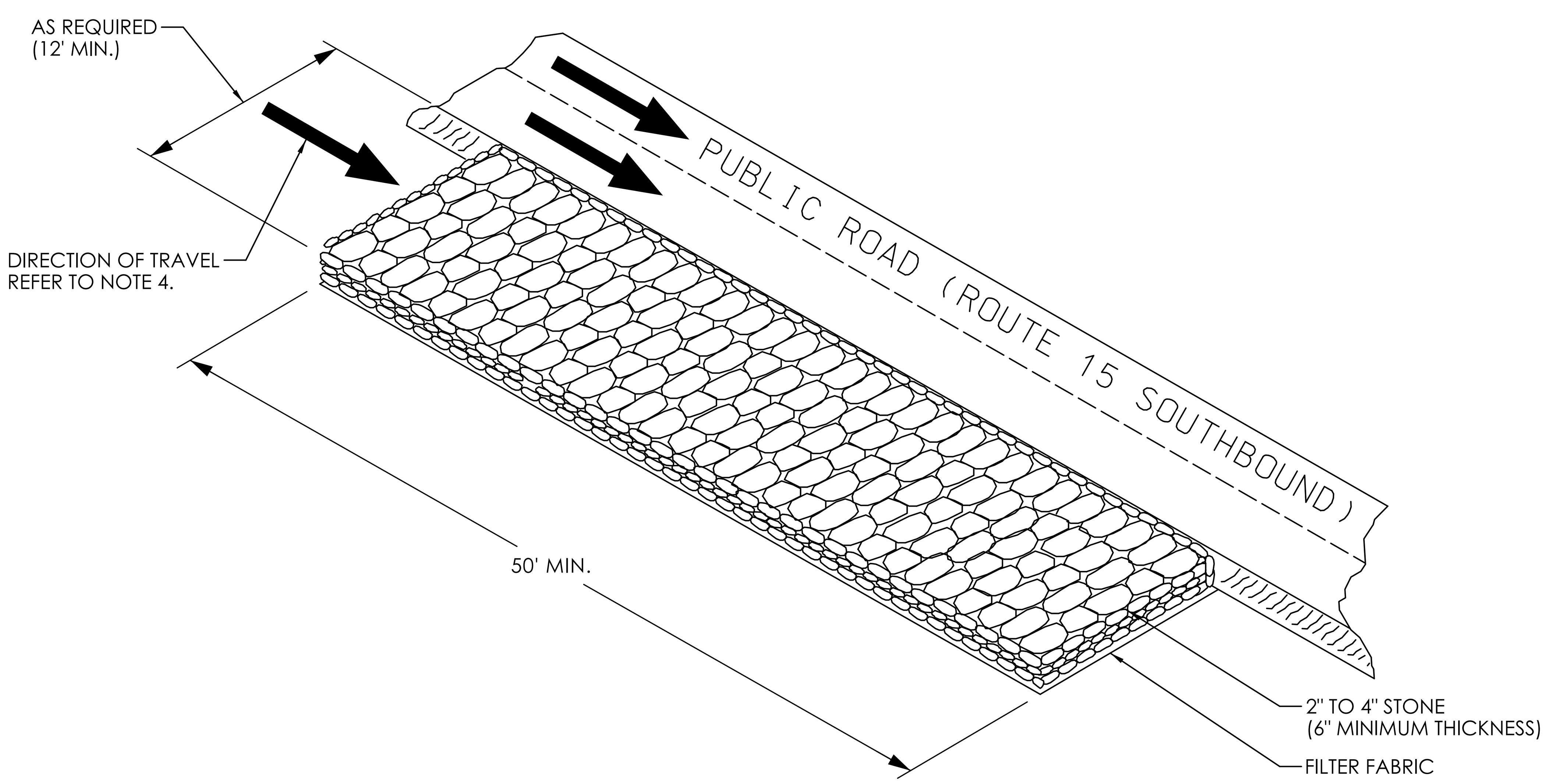
WORK AREA ACCESS

NOT TO SCALE



GRASS SWALE

(STA. 25+75 to 32+25)
NOT TO SCALE

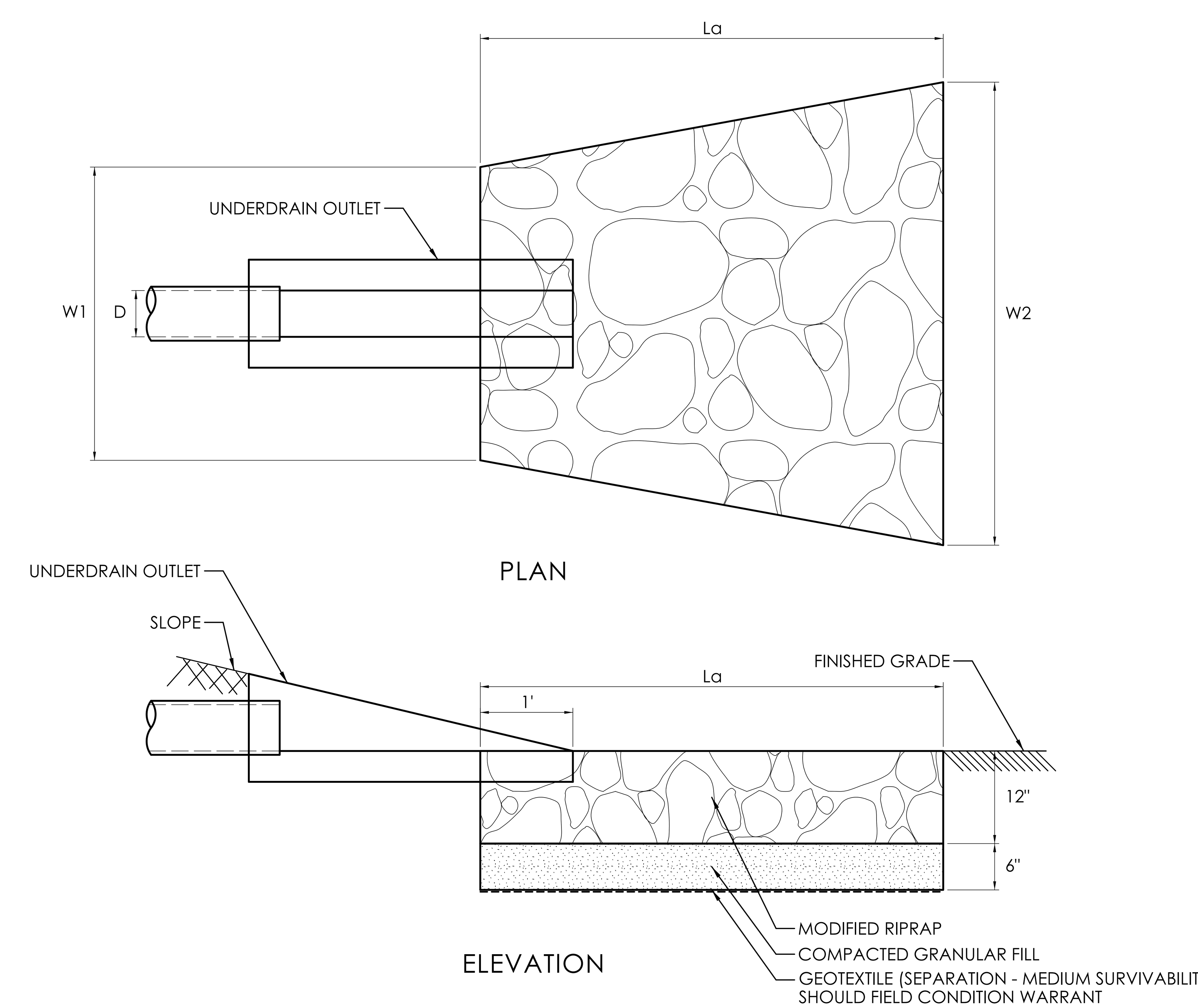


NOTES:

1. ANTI-TRACKING PAD, INCLUDING FILTER FABRIC, SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "EARTH EXCAVATION" AND "TURF ESTABLISHMENT".
2. MAINTAIN ANTI-TRACKING PAD IN GOOD CONDITION THROUGHOUT CONSTRUCTION.
3. ADJACENT ROADWAY SHALL BE SWEPT DAILY TO REMOVE ANY MATERIAL THAT MAY BE TRACKED ONTO PAVEMENT.
4. WHEN EXITING THE CONSTRUCTION SITE, VEHICLES SHALL TRAVEL A MINIMUM OF 50 FEET ON THE ANTI-TRACKING PAD BEFORE ENTERING THE ADJACENT ROADWAY.

ANTI-TRACKING PAD

NOT TO SCALE



LOCATION	STATION	D (in.)	La (ft)	W1 (ft)	W2 (ft)
ROUTE 15 SB ACCELERATION LANE	22+65	6	5	3	5

MODIFIED RIPRAP APRON

NOT TO SCALE

REV. | DATE | REVISION DESCRIPTION

DESIGNER/DRAFTER: M.CARVALHO CHECKED BY: D.RACICOT

SCALE AS NOTED

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0106-0130
PROJECT DESCRIPTION: Interchange 57 Improvements on Route 15 Southbound
TOWN(S): Orange
DRAWING TITLE: MISCELLANEOUS DETAILS

DRAWING NO. MDS-02
SHEET NO.

LASTED SAVED BY: Carvalhoma FILE NAME: ... Details.dgn
PLOTTED DATE: 5/26/2021

FIGURE C-2

Appendix D – CTDOT MS4 Project Design Maximum Extent Practicable Worksheet

CTDOT MS4 Project Design
Maximum Extent Practicable (MEP) Worksheet

Section 1: Project Information		
	Project #:	0106-0130
	Title:	Interchange 57 Improvements on Route 15 Southbound
	Location:	Town of Orange

Section 2: Existing Conditions

EC1	Total Project Area			5.20 acres		
EC2	Pre-construction Directly Connected Impervious Area (DCIA):			1.97 acres	37.88 %	
EC3	Soil Infiltration Potential	Data Source: ☑Existing Report / Soils Map ☐Field Verified		☐Good/Fair	☐Poor	☑Mixed
EC4	Depth to Maximum Groundwater		☐TBD	0 to 5 ft below grade		
EC5	Depth to Bedrock		☐TBD	4 to 19 ft below grade		
EC6	Aquifer Protection Area? (from PNDF)			☐Yes	☑No	
EC7	MS4 Priority Area? (from PNDF)			☑Yes (See Below)	☐No	
	Check All That Apply	☑Urbanized Area	☑DCIA >11%	☐Impaired Waterbody (See Below)		
	Select All Impairments That Apply	Choose an Item	Choose an Item	Choose an Item		
EC8	Contamination known or suspected to be present? (From Environmental Compliance)			☑Yes	☐No	
EC9	Adjoining DOT ROW beyond project limits available for stormwater quality management			0 acres		

Section 3: Designed Conditions

	Water Quality Calculations		30% Design		60% Design	90% Design	FDP
DC1	WQV retention design goal	☑ Full ☐ 1/2"-WQV	ac-ft	☑ TBD	ac-ft	0.263 ac-ft	ac-ft
DC2	WQV goal ***retained*** (refer to page 2)		ac-ft		ac-ft	.032 ac-ft	ac-ft
DC3	WQV goal ***treated*** (refer to page 2)		ac-ft		ac-ft	.039 ac-ft	ac-ft
DC4	Total WQV *retained and treated*		0 **ac-ft**		0 **ac-ft**	0.071 **ac-ft**	0 **ac-ft**
DC5	Post-construction DCIA(acres)		1.98 ac.	☐ TBD	ac.	2.33 ac.	ac.
DC6	Pre-construction DCIA (refer to EC2 above)		1.28 ac.		ac.	1.97 ac.	ac.
DC7	Change in DCIA from pre- to post-construction *Can be positive (DCIA gained) or negative (DCIA lost)*		0.7 **ac.**	☐ **TBD**	0 **ac.**	0.36 **ac.**	0 **ac.**
	Date completed		6/8/2020			3/31/2021	
	Completed by (initials)		MVC			MVC	
	Reviewed by (initials)					DMR	

Notes:

Worksheet users should refer to the *CT DOT MS4 Project Design MEP Worksheet Instructions*

Section 4: Stormwater BMP Selection Summary						
Design Phase ☐30% ☐60% ☑90% ☐FDP	**WQV Retained (ac-ft)**	**WQV Treated (ac-ft)**	**DCIA Captured (Acres)**	**DCIA Disconnection Credit (%)**	**DCIA Disconnection Credit (acres)**	**Site Constraints**
Disconnection (Dispersion)						
No Curb / Natural Dispersion	.032	.032	.57	100	.57	Choose an Item.
						Choose an Item.
						Choose an Item.
Conveyance (Swales / Channels)						
Grass Channel/Swale	0	.007	.32	15	.048	Choose an Item.
						Choose an Item.
						Choose an Item.
Infiltration / Retention						
Infiltration Basin						Insufficient Right-of-Way
Infiltration Trench						Natural Slopes >15%
						Choose an Item.
						Choose an Item.
						Choose an Item.
						Choose an Item.
						Choose an Item.
Treatment						
						Choose an Item.
						Choose an Item.
						Choose an Item.
TOTAL	0.032	0.039	0.89	115	0.618	

Notes:

Stormwater BMP's on this site are limited due to adjacent wetlands, environmentally sensitive areas, steep slopes, and limited right-of-way.

Worksheet users should refer to the *CT DOT MS4 Project Design MEP Worksheet Instructions.* Refer to the 2004 CT Stormwater Quality Manual for more information on BMP criteria and limitations.

Appendix E – Construction Site Environmental Inspection Report (CSEIR)

State of Connecticut
Department of Transportation
Construction Site Environmental Inspection Report

This Form Must Be Completed At Least Once A Week And Within Twenty Four (24) Hours Of The End Of A Storm Event That Is 0.1 inches Or Greater

General Information			
Project Number		**Date**	
Permit Number(s)		**Location**	
		Phone No.	
Project Engineer		**Chief Inspector**	
Contractor			
Describe present phase of construction/activities that are occurring			

Type of Inspection:
☐ Weekly ☐ Pre-storm event ☐During storm event ☐ Post-storm event

Weather Information

Has there been a storm event since the last inspection? ☐Yes ☐No **If yes, provide:**

Storm Start Date & Time: Storm Duration (hrs): Type and Approximate Amount of Precipitation (in):

Weather at time of this inspection?
☐ Clear ☐Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐High Winds Temperature:

Site-specific BMPs

- *Number the structural and non-structural BMPs on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map for reference with you during your inspections.*

BMP Maintenance

	BMP or Observation Site and Location	BMPs Installed ?	BMP Maintenance Required?	Remedial Action Required and Date Contractor was Notified *ALL REMEDIAL ACTIONS MUST BE COMPLETED WITHIN 24 HOURS*	Date Fixed	Photo Taken ?	Repeat Failure?
1		☐Yes ☐No	☐Yes ☐No			☐Yes ☐No	☐Yes ☐No
2		☐Yes ☐No	☐Yes ☐No			☐Yes ☐No	☐Yes ☐No
3		☐Yes ☐No	☐Yes ☐No			☐Yes ☐No	☐Yes ☐No

Are there any sediment discharges to a regulated area occurring or have any occurred since the last inspection? ☐Yes ☐No

If yes, contact the District Environmental Coordinator immediately.

Describe the discharge including location, time identified, and the approximate amount of sediment. (on back)

Environmental Inspector: _____

Signature: _____ **Date:** _____

Reviewed by: _____

Signature: _____ **Date:** _____

Appendix F – Notice of Termination Form

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

Notice of Termination Form

Please complete and submit this form in accordance with the general permit (DEP-PED-GP-015) in order to ensure the proper handling of your termination. Print or type unless otherwise noted.

Note: Ensure that for commercial and industrial facilities, registrations under the *General Permit for the Discharge of Stormwater Associated with Industrial Activity* (DEP-PED-GP-014) or the *General Permit for the Discharge of Stormwater from Commercial Activities* (DEP-PED-GP-004) have been filed where applicable. For questions about the applicability of these general permits, please call the Department at 860-424-3018.

Part I: Registrant Information

1. Permit number: ***GSN***
2. Fill in the name of the registrant(s) as indicated on the registration certificate:

   Registrant:
3. Site Address:

   City/Town: State: Zip Code:
4. Date all storm drainage structures were cleaned of construction sediment:

   Date of Completion of Construction:

   Date of Last Inspection (must be at least three months after final stabilization pursuant to Section 6(b)(6)(D) of the general permit):
5. Check the post-construction activities at the site (check all that apply):

   ☐ Industrial ☐ Residential ☐ Commercial ☐ Capped Landfill

   ☐ Other (describe):

Part II: Certification

"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."

Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)

Note: Please submit this Notice of Termination Form to:

STORMWATER PERMIT COORDINATOR
BUREAU OF WATER MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127