

Energy & Environmental Provention

	CPPU USE ONLY
App #:	
Doc #:	
Check #:_	

Permit Application Transmittal Form

Please complete this transmittal form in accordance with the instructions in order to ensure the proper handling of your application(s) and the associated fee(s). Print legibly or type.

Part I: Applicant Information:

- *If an applicant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, applicant's name shall be stated exactly as it is registered with the Secretary of State.
- If an applicant 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.).

Applicant: Connecticut Department of Transportation							
Mailing Address: 1107 Cromwell Avenue							
City/Town: Rocky Hill	State: CT	Zip Code: 06067					
Business Phone:	ext.:						
Contact Person: Ravi V. Chandran	Phone: 860-258	3-4601 ext.					
E-Mail: ravi.chandran@ct.gov							
Applicant (check one): individual *business entity federal agency state agency municipality tribal *If a business entity, list type (e.g., corporation, limited partnership, etc.): Check if any co-applicants. If so, attach additional sheet(s) with the required information as supplied above.							
Please provide the following information to be used for <i>billing purposes</i> of	my, ii dillerent.						
Company/Individual Name:							
Mailing Address:							
City/Town:	State:	Zip Code:					
Contact Person:	Phone:	ext.					
art II: Project Information							

Brief Description of Project: (Example: Development of a 50 slip marina on Long Island Sound) Safety Improvements on Route 533 at Box Mountain Road (work includes: realignment of horizontal/vertical curves and full-depth reconstruction) Location (City/Town): Bolton, CT							
Other Project Rela	Other Project Related Permits (not included with this form):						
Permit Description	Issuing Authority	Submittal Date	Issuance Date	Denial Date	Permit#		
				1			
Ni Ni							

Part III: Individual Permit Application and Fee Information

New, Mod. or Renew	Individual Permit Applications	Initial Fees	No. of Permits Applied For	Total Initial Fees	Original + Required Copies	
	AIR EMISSIONS					
	New Source Review ☐ Revision ☐ minor mod	\$940.00			1 + 0	
	Title V Operating Permits ☐ Revision ☐ minor mod ☐ non-minor mod				1 + 0	
	Title IV				1+0	
Clean Air Interstate Rule (CAIR)		none			1 + 0	
	WATER DISCHARGES					
	To Groundwater	\$1300.00			1+1	
	To Sanitary Sewer (POTW)	\$1300.00			1+1	
	To Surface Water (NPDES)	\$1300.00			1+1	
	INLAND WATER RESOURCES-					
	Dam Safety	none			1 + 2	
	Flood Management Certification	none			1+1	
	Inland Wetlands and Watercourses	none				
	Inland 401 Water Quality Certification	none			1+5	
	FERC- Hydropower Projects- 401 Water Quality Certification	none			1 +1	
	Water Diversion	*			1 + 5	
	OFFICE OF LONG ISLAND SOUND PROGRAMS					
	Certificate of Permission	\$375.00			1 + 2	
	Coastal 401 Water Quality Certification	none			1+2	
	Structures and Dredging/and Fill/Tidal Wetlands	\$660.00			1 + 2	
	WASTE MANAGEMENT					
	Aerial Pesticide Application	*			1+2	
	Aquatic Pesticide Application	\$200.00			1+0	
	CGS Section 22a-454 Waste Facilities	*			1+1	
	Disruption of a Solid Waste Disposal Area	\$0			1+1	
	Hazardous Waste Treatment, Storage and Disposal Facilities	*			1+1	
	Marine Terminal License	\$375.00			1+0	
	Stewardship	\$4000.00			1+1	
	Solid Waste Facilities	*			1+1	
	Waste Transportation	*			1 + 0	
		Subtotal =				
	GENERAL PERMITS and AUTHORIZATIONS Subtot	als Page 3 &4 ➡	1	\$3000.00	1	
	Enter subtotals from Part IV, pages 3 - 6 of this form Subt	otals Page 5				
	1 -	otals Page 6				
	TOTAL → 1 \$3000.00					
	Indicate whether municipal discount or state Less Appli	waiver applies.	-			
	AMOUNT REMITTED ⇒ \$3000.00					
Check	# Check or money order sho				<u> </u>	

[★] See fee schedule on individual application.

Part IV: General Permit Registrations and Requests for Other Authorizations Application and Fee Information

✓	General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fees	Original + Required Copies
	AIR EMISSIONS				
Limit Potential to Emit from Major Stationary Sources of Air Pollution					1 + 0
	Diagnostic and Therapeutic X-Ray Devices (Medical X-Ray) Registration	\$190.00/Xray device			1 + 0
	Radioactive Materials and Industrial Device Registration (Ionizing Radiation)	\$200.00			1 + 0
	Emergency/Temporary Authorization	**			**
	License Revocation Request	\$0			**
	Other, (please specify):				
	WATER DISCHARGES				
	Boiler Blowdown Wastewater	Expired- wa	stewater disch	arge authorized und	er MISC GP
	Categorical Industry User to a POTW Discharges > 10,000 gpd Discharges < 10,0000 gpd	\$6250.00 \$3125.00			1 + 0
	Domestic Sewage	\$625.00			1 + 0
	Food Preparation Establishment Wastewater	No Registration			
	Food Processing Wastewater	\$500.00			1+0
	Groundwater Remediation Wastewater to a Sanitary Sewer	\$500.00			1 + 0
	Groundwater Remediation Wastewater to a Surface Water Registration Only Approval of Registration by DEEP	\$625.00 \$1250.00			1 + 0
	Hydrostatic Pressure Testing Wastewater Registration Only Approval of Registration by DEEP (natural gas pipelines)	\$625.00 \$1250.00			1 + 0
	Miscellaneous Discharges of Sewer Compatible Wastewater Registration Only Approval of Registration by DEEP	\$500.00 \$1000.00			1 + 0
	Nitrogen Discharges		No Re	egistration	
	Non-Contact Cooling and Heat Pump Water (Minor)	\$625.00			1 + 0
	Photographic Processing Wastewater (Minor)	Expired- wa	stewater disch	arge authorized und	er MISC GP
	Point Source Discharges from Application of Pesticides	\$200.00			1 + 0
☐ Printing & Publishing Wastewater (Minor) Flow < 40 gpd		\$500.00 \$100.00			1 + 0
	Stormwater Associated with Commercial Activities	\$300.00			1 + 0
	Stormwater Associated with Industrial Activities <50 employees–see general permit for additional requirements >50 employees–see general permit for additional requirements	\$500.00 \$1000.00			1 + 0
\boxtimes	Stormwater & Dewatering Wastewaters-Construction Activities	*	1	\$3000.00	1 + 0
	Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)	\$250.00			1 + 0

[★] See fee schedule on registration/application.

^{★★} Contact the specific permit program for this information. (Contact numbers are provided in the instructions)

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

WATER DISCHARGES (continued)						
☐ Subsurface Sewage Disposal Systems Serving Existing Facilities	* *			1+0		
☐ Swimming Pool Wastewater - Public Pools and Contractors	\$500.00			1 + 0		
☐ Tumbling or Cleaning of Parts Wastewater (Minor)	Expired- wa	stewater discha	arge authorized und	der MISC GP		
Vehicle Maintenance Wastewater ☐ Registration Only ☐ Approval of Registration by DEEP	\$625.00 \$1250.00			1 + 0		
☐ Water Treatment Wastewater	\$625.00			1 + 0		
☐ Emergency/Temporary Authorization - Discharge to POTW	\$1500.00			1 + 0		
☐ Emergency/Temporary Authorization - Discharge to Surface Water	\$1500.00			1 + 0		
☐ Emergency/Temporary Authorization - Discharge to Groundwater	\$1500.00			1 + 0		
☐ Other, (please specify):						
Note: Carry subtotals over to Part III, page 2 of this form.	ubtotal =	1	\$3000.00			

**

Contact the specific permit program for this information. (Contact numbers are provided in the instructions)

[★] See fee schedule on registration/application.

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

✓	General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fee	Original + Required Copies
	AQUIFER PROTECTION PROGRAM				
	Registration for Regulated Activities	\$625.00			1 + 0
	Permit Application to Add a Regulated Activity	\$1250.00			1 + 0
	Exemption Application from Registration	\$1250.00			1 + 0
	INLAND WATER RESOURCES				
	Diversion of Remediation Groundwater		No Re	gistration	
	Diversion of Water for Consumptive Use: Reauthorization Categories	\$1000.00			1 + 2
	Diversion of Water for Consumptive Use: Authorization Required	\$2500.00			1 + 4
	Diversion of Water for Consumptive Use: Filing Only	\$1500.00			1 + 4
	Programmatic General Permit	*			1 +3
	Water Resource Construction Activities	*			1 +0
	Emergency/Temporary Authorization	**			**
	Notice of High Hazard Dam or a Significant Hazard Dam	\$0			1 +0
	Other, (please specify):				
	OFFICE OF LONG ISLAND SOUND PROGRAMS				
	4/40 Docks	\$700.00			1+1
	Beach Grading	\$100.00			1+1
	Buoys or Markers		No Re	egistration	
	Coastal Remedial Activities Required by Order	\$700.00			1+1
	Dock Reconstruction	\$300.00			1+1
	Harbor Moorings		No Re	gistration	
	Maintenance of Catch Basins and Tide Gates		No Re	gistration	
	Marina and Mooring Field Reconfiguration	\$700.00			1 + 1
	Minor Seawall Repair		No Re	gistration	
	Non-harbor Moorings	\$100.00			1+1
	Osprey Platforms and Perch Poles	none			1+1
	Pump-out Facilities (no fee for Clean Vessel Act grant recipients)	\$100.00 ★			1+1
	Programmatic General Permit				1+1
	Removal of Derelict Structures	\$100.00			1+1
	Residential Flood Hazard Mitigation	\$100.00			1+1
	Swim Floats	\$100.00			1+1
	Emergency/Temporary Authorization	**			**
	Other, (please specify):				
N	ote: Carry subtotals over to Part III, page 2 of this form.	ototal 🖶			

^{*}See fee schedule on registration/application.
Contact the specific permit program for this information.
(Contact numbers are provided in the instructions)

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

✓	General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fee	Original + Required Copies
	WASTE MANAGEMENT				
	Addition of Grass Clippings at Registered Leaf Composting Facilities	\$500.00			1 + 0
	Beneficial Use Determination	*			
	Certain Recycling Facilities:				
	Drop-site Recycling Facility	\$200.00			1 + 0
	Limited Processing Recycling Facility	\$500.00			1 + 0
	Recyclables Transfer Facility	\$500.00			1 + 0
<u> </u>	Single Item Recycling Facility	\$500.00			1 + 0
	Collection and Storage of Post Consumer Paint	\$0			
	Contaminated Soil and/or Staging Management (Staging/Transfer) Registration Only Approval of Registration by DEEP Renewals	\$250.00 \$1500.00 \$750.00			1 + 0 1 + 0
	Connecticut Solid Waste Demonstration Project	\$1000.00			1 + 0
	Disassembling Used Electronics	\$2000.00			1 + 0
	Leaf Composting Facility	none			1 + 1
	Municipal Transfer Station	\$800.00			1 + 1
	One Day Collection of Certain Wastes and Household Hazardous Waste	\$1000.00			1 + 0
	Sheet leaf Composting Notification	\$0			**
	Special Waste Authorization Landfill or RRF Disposal Asbestos Disposal homeowner	\$660.00 \$300.00 \$0			1+0
	Storage and Processing of Asphalt Roofing Shingle Waste	\$2500.00			1 + 0
	Storage and Processing of Scrap Tires for Beneficial Use	\$1250.00			1 + 0
	Emergency/Temporary Authorization	**			**
	REMEDIATION				
	In Situ Groundwater Remediation: Enhance Aerobic Biodegradation	*			1 + 2
	In Situ Groundwater Remediation: Chemical Oxidation				1 + 0
	Emergency/Temporary Authorization	*			**
No		ototal 🖶			

[★]See fee schedule on registration/application.

(Contact numbers are provided in the instructions)

Affirmative Action, Equal Employment Opportunity and Americans with Disabilities

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 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.

^{★★} Contact the specific permit program for this information.



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

Prior to completing this form, you **must** read the instructions for the subject general permit available 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 <u>status of your registration</u> 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-re Existing Perm	gistration nit No. GSN	of ne Re-re	On or before February 1, 2014* e: Failure to renew a permit by this date will require submission w registration. egistrants must only complete Parts I, II, III (except Question 8), Question 1, VII and submit Attachment A.		
	New Registration (Refer to	Locally Approvable Projects Size of soil disturbance:	Ne	w registration - Sixty (60) days prior to the initiation of the construction activity for: Sites with a total soil disturbance area of 5 or more acres		
	Section 2 of the permit for definitions of Locally Exempt and Locally Approvable Projects) Locally Exempt Projects 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		
		2.20 acres		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 an 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 [#1855]
	 b. Locally exempt projects (registration and Plan): \$3,000 total soil disturbance area ≥ one (1) and < twenty (20) acres. [#1856] \$4,000 total soil disturbance ≥ twenty (20) acres and < fifty (50) acres. [#1857] \$5,000 total soil disturbance ≥ fifty (50) acres. [#1858]
2.	Re-Registrations \$625 (sites previously registered prior to September 1, 2012) [#1853] \$0 (sites previously registered between September 1, 2012 and the issuance date of this permit) [#1854]
sec in tl	e fees for municipalities shall be half of those indicated in subsections 1.a., 1.b., and 2 above pursuant to etion 22a-6(b) of the Connecticut General Statutes. State and Federal agencies shall pay the full fees specified his subsection. The registration will not be processed without the fee. The fee shall be non-refundable and shall 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.).

	initial, East Name, Sumx (or, or., ii, iii, sto.).							
1.	Registrant /Client Name: Connecticut Department of Transportation							
	State Agency ■							
	Secretary of the State business ID #:							
	Mailing Address: 1107 Cromwell Avenue							
	City/Town: Rocky Hill	State: CT	Zip Code: 06067					
	Business Phone: 860-258-4601	ext.:						
	Example:(xxx) xxx-xxxx							
	Contact Person: Ravi V. Chandran, P.E.	Title: District Eng						
	E-Mail: ravi.chandran@ct.gov							
	Additional Phone Number (if applicable):		ext.					
2.	2. List billing contact, if different than the registrant:							
	Name:							
	Mailing Address:							
	City/Town:	State:	Zip Code:					
	Business Phone:	ext.:						
	Contact Person:	Title:						

Part III: Registrant Information (continued)

3.	3. List primary contact for departmental correspondence and inquiries, if different than the registrant:					
	Name:					
	Mailing Address:					
	City/Town:	State:	Zip Code:			
	Business Phone:	ext.:				
	Site Phone:	Emergency Phone:				
	Contact Person:	Title:				
	Association (e.g. developer, general or site contra	actor, etc.):				
4.	List owner of the property on which the activity w	ill take place, if different fr	rom registrant:			
	Name:					
	Mailing Address:					
	City/Town:	State:	Zip Code:			
	Business Phone:	ext.:				
	Contact Person:					
5.	List developer, if different from registrant or prima	ary contact:				
٥.	Name:					
	Mailing Address:					
	City/Town:	State:	Zip Code:			
	Business Phone:	ext.:	Z.p 0000.			
	Contact Person:	Title:				
6.	List general contractor, if different from registrant	or primary contact:				
	Name:	, , , , , , , , , , , , , , , , , , ,				
	Mailing Address:					
	City/Town:	State:	Zip Code:			
	Business Phone:	ext.:	_p ====================================			
	Site Phone:	Off Hours Phone:				
	Contact Person:	Title:				
7.	List any engineer(s) or other consultant(s) employed or retained to assist in preparing the registration and/or Stormwater Pollution Control Plan. Please select if additional sheets are necessary, and label and attach them to this sheet.					
	Name: Scott Bushee					
	Mailing Address: 2800 Berlin Turnpike					
	City/Town: Newington	State: CT	Zip Code: 06111			
	Business Phone: (860) 594-2079	ext.:				
	Contact Person:	Title: Project Manager				
	Service Provided: Prepared Permit Application					
8.	List Reviewing Qualified Professional (for locally	approvable projects only)	:			
	Name:	Conta	ct Person:			
	Mailing Address:					
	City/Town:	State:	Zip Code:			
	Business Phone:	ext.:				

Part IV: Site Information

1.	Site Name: State Project No. 12-95: Safety Improvements on Route 533 at Box Mountain Road Street Address or Description of Location: Route 533 (Lake Street) Between Goodwin and Bo City/Town: Bolton State: CT Zip Code: 06043 Brief Description of construction activity: Realignment of Horizontal/Vertical Curves; Full-Dept Project Start Date: 04 / 2016 Anticipated Completion Date: 11 / 2016 (month/yr) (month/yr) Normal working hours: 8:00 to 5:00	x Mountair	
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, I River, East Haven, East Lyme, Essex, Fairfield, Greenwich, Groton (City and Town), Old Lyme Hamden, Ledyard, Lyme, Madison, Milford, Montville, New London, New Haven, North Haven Norwich, Old Saybrook, Orange, Preston, Shelton, Stamford, Stonington (Borough and Town), Waterford, West Haven, Westbrook and Westport.	e, Guilford, , Norwalk,	ep
	If "yes", and this registration is for a new authorization or a modification of an existing authorization physical footprint of the subject activity is modified, you must provide documentation the DEEF Island Sound Programs or the local governing authority has issued a coastal site plan approvate the project is exempt from coastal site plan review. Provide this documentation with your regist Attachment B. See guidance in Appendix D of the general permit. Information on the coastal be available at the local town hall or at www.cteco.uconn.edu/map_catalog.asp . Additional DEEP Publications are available by contacting DEEP staff at 860-424-3555.	P Office of I I or determatration as oundary is	_ong

Part IV: Site Information (continued)

6.	EN	DANGERED OR THREATENED SPECIES:		
	a lir spe diffe usir sec	order to be eligible to register for this General Permit, each registrant must perform a self-assimited one-year determination, or obtain a safe-harbor determination regarding threatened arecies. This may include the need to develop and implement a mitigation plan. While each alterent limitations, the alternatives are not mutually exclusive; a registrant may register for this not more than one alternative. See Appendix A of the General Permit. Each registrant must of the thin this Registration form and a registrant who does not or cannot degister under this General Permit.	nd endang ernative ha General l complete tl	gered as Permit his
	Each registrant 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 ½ mile) to a shaded area.			e if the
	a.	Provide the date the NDDB maps were reviewed: <u>1/5/2015</u> (Print a copy of you viewed since it must be submitted with this registration as part of Attacment C.)	the NDDE	3 map
	b.	For a registrant using a limited one-year determination or safe harbor determination to regis General Permit, provide the Department's Wildlife Divison NDDB identification number for a determination: (The number is on the determination issued by t Wildlife Divison).	any such	
	C.	verify that I have completed Attachment C to this Registration Form.	⊠ Yes	
	3(b	more information on threatened and endangered species requirements, refer to Appendix A (2) of this General Permit, visit the DEEP website at www.ct.gov/deep/nddbrequest or call to 3011.		
7.		LD AND SCENIC RIVERS: Is the proposed project within the watershed of a designated d and Scenic River? (See Appendix H for guidance)	☐ Yes	⊠ No
8.	ww	UIFER PROTECTION AREAS: Is the site located within a mapped aquifer protection area w.ct.gov/deep/aquiferprotection as defined in section 22a-354h of the CT General Statutes? r additional guidance, please refer to Appendix C of the General Permit)	☐ Yes	⊠ No
9.	СТ	GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL: Is the activity in accordan	nce	
	with	n CT Guidelines for Erosion and Sediment Control and local erosion & sediment trol ordinances, where applicable?	⊠ Yes	□No
10.	На	STORIC AND/OR ARCHAEOLOGICAL RESOURCES: as the site of the proposed activity been reviewed (using the process outlined in spendix 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	⊠ Yes	☐ No
	C.	The proposed activity has been reviewed and authorized under an Army Corps of Engineers Section 404 wetland permit.	☐ Yes	⊠ No
11.		ONSERVATION OR PRESERVATION RESTRICTION: the property subject to a conservation or preservation restriction?	☐ Yes	⊠ No
	su	Yes, proof of written notice of this registration to the holder of such restriction or a letter from ch restriction verifying that this registration is in compliance with the terms of the restriction, bmitted as Attachment D.		r of

Part V: Stormwater Discharge Information

Table 1	Table 1					
Outfall #	a) Type	b) Pipe Material	c) Pipe Size	CT ECO. A decimal financial Directions on how to use Conversions can be found DEEP-WPE	nd lat/long, go to: format is required here. CT ECO to find lat./long. and d in Part V, Section d of the ED-INST-015.	e) What method was used to obtain your latitude/longitude information?
				Longitude	Latitude	
EO-1	pipe	concrete	24"	-7 <u>2.4</u> 7 <u>2</u> 4_1	4_1.7_9_1_4_3	CT ECO
EO-2	pipe	concrete	other - 30"	-7 <u>2.</u> 4 7 2 8 2	4_1 <u>.</u> 7_9_4_5_9	CT ECO
	Select One:	Select One:	other	-LUULUUI	LULLULUI	Select One:
	Select One:	Select One:	Select One:	-LULULUUI	LULLULI	Select One:
	Select One:	Select One:	Select One:	- LULLULUU		Select One:

Table 2	able 2					
Outfall #	a) For temporary and permanent outfalls, provide a start date. For temporary discharges, also provide a date the discharge will cease.	b) For the drainage area associated with each outfall: Effective Impervious Area Before Construction	c) For the drainage area associated with each outfall: Effective Impervious Area After Construction	d) To what system or receiving water does your stormwater runoff discharge? either "storm sewer" or "wetlands/waterbody" (If you select "storm sewer" proceed to Part VI of the form. If you select "wetlands/waterbody" proceed to next question)	e) For each outfall, does it discharge to any of the following towns: Branford, Kent, Manchester, Meriden, North Branford, Norwalk, or Wilton? (If no, proceed to Part VI of the form. If yes, proceed to next question.)	f) For each outfall, does it discharge to a "freshwater" or "salt water"? (If you select "freshwater" proceed to Table 3. If you selected "salt water", proceed to Part VI of the form.)
EO-1	04/2016- mm/dd-mm/dd	17,821 sq feet	604 sq feet	wetlands/waterbody	⊠ Yes □ No	freshwater
EO-2	04/2016- mm/dd-mm/dd	8,234 sq feet	8,120 sq feet	wetlands/waterbody	☐ Yes ⊠ No	Select one:
PO-1	04/2016- mm/dd-mm/dd	sq feet	17,909 sq feet	wetlands/waterbody	⊠ Yes □ No	freshwater
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
		26,055 total sq feet	26,633 total sq feet			

Part V: Stormwater Discharge Information (continued)

Table 3 Provide the following information about the receiving water(s)/wetland(s) that receive stormwater runoff from your site:				
Outfall #	a) What is your 305b ID # (water body ID #)? (Section 3.b, of the DEEP-WPED-INST-015, explains how to find this information)	b) Is your receiving water identified as a impaired water in the "Impaired Waters Table for Construction Stormwater Discharges"? If yes, proceed to next question. If no, proceed to Part VI: Pollution Control Plan.	c) Has any Total Maximum Daily Load (TMDL) been approved for the impaired water?	
EO-1	4500-11	□Y⊠N	□ Y □ N	
PO-1	4500-11	□Y⊠N	□ Y □ N	
		□ Y □ N	□ Y □ N	
		Y □ N	□ Y □ N	
		□ Y □ N	□Y□N	

Part V: Stormwater Discharge Information (continued)

	Impaired waters: If you answered "yes" to Table 3, question b., 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 1.b. below:			
	a.	No more than 3 acres is disturbed at any time;	☐ Yes	
	OF	R .		
	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:		uestion	
	a.	The Plan documents there is sufficient remaining Waste Load Allocations (WLA)in the TMDL for the proposed discharge,	he Yes	
	A٨	ID .		
	b.	Control measures shall be implemented to assure the WLA will not be exceeded,	☐ Yes	
	A٨	ID .		
	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	
Pá	art '	VI: Pollution Control Plan (select one of the following four categories)		
\boxtimes		I am registering a Locally Exempt project and submitting the required electronic Plan (in Adobe TM similar publically available format) pursuant to Section $3(c)(2)(E)$ of this permit.	PDF or	
		☐ 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 regular pursuant to Section $3(c)(1)$ of this permit.	istration	
	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.		ailable	
		☐ 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.

"I hereby certify that I am making this certification in connection with a re [INSERT NAME OF REGISTRAL] submitted to the commissioner by Ravi V. Chandran [INSERT ADDRESS OF PROJECT OF Route 533 (Lake Street) at Box Mountain Road terms and conditions of the general permit are being met for all discharge eligible for authorization under such permit. I further certify that a system this general permit will continue to be met for all discharges authorized b registration filed pursuant to this general permit is on complete and accumply without alteration of their text. I certify that I have personally examined an basis for this certification, including but not limited to all information descend I certify, based on reasonable investigation, including my inquiry of the information, that the information upon which this certification is based is knowledge and belief. I certify that I have made an affirmative determination general permit. I understand that the registration filed in connection with and shall comply with the requirements of Section 22a-430b of Connection knowingly making any false statement made in the submitted information criminal offense, including the possibility of fine and imprisonment, under Statutes and any other applicable law."	and that all es which have been initiated and such activity is is in place to ensure that all terms and conditions of y this general permit at the site. I certify that the rate forms as prescribed by the commissioner and am familiar with the information that provides the ribed in Section 3(b) (8)(A) of such general permit, hose individuals responsible for obtaining such true, accurate and complete to the best of my tion in accordance with Section 3(b)(8)(B) of this such general permit is submitted in accordance with cut General Statutes. I also understand that and in this certification may be punishable as a		
For Re-registrants: "I hereby certify that I am making this certification in connection with a red Discharge of Stormwater and Dewatering Wastewaters from Construction [INSERT NAME OF REGISTRANT BELOW]			
by	for an activity located at		
[INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]			
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."			
Mari chuol	3/2/15		
/	Date		
Ravi V. Chandran	District 1 Engineer		
, , , , , , , , , , , , , , , , , , , ,	itle (if applicable)		
	1-14-2015		
Signature of Preparer (if different than above)	Date		
	hadaat Managan		
	roject Manager itle (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 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 [INSERT NAME OF REGISTRANT BELOW]			
RAVI V. CHANDRAN	for an activity located at		
[INSERT ADDRESS OF PROJECT OR A	A BO SECTION OF THE PROPERTY O		
Route 533 (Lake Street) at Box Mountain Road			
care for such projects, that the Stormwater Pollution C the Connecticut Guidelines for Soil Erosion and Sedir Manual, as amended, and the conditions of the gener are appropriate for the site. I further certify, based on individuals responsible for obtaining such information, based is true, accurate, and complete to the best of m knowingly making any false statement in this certificate	r certify, based on such review and on the standard of Control Plan has been prepared in accordance with ment Control, as amended, the Stormwater Quality ral permit, and that the controls required for such Plan reasonable investigation, including my inquiry of those, that the information upon which this certification is my knowledge and belief. I also understand that tion may subject me to sanction by the Department the possibility of fine and imprisonment, under section		
All of the	2/6/15		
Signature of Design Professional	Date		
MICHAEL G. FISHER	SENIOR PROJECT MAR		
Name of Professional (print or type)	Title		
355 RESCARCA PKWY Mailing Address	MERIDEN		
Mailing Address	City/Town		
MERIDEN CT 06450	203-630-1406		
State Zip Code	Business Phone		
WILL OF CONNECTION	21170		
State Zip Code William Construction Affect D. F.// A. Starren Harry	License #		
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: list of districts					
	Date of Affirmative Determination:					
		aking this certification in connection with a registration under Gener ater and Dewatering Wastewaters from Construction Activities, subr				
		[INSERT NAME OF REGISTRANT BELOW]				
	by		for an activity located at			
	~,	[INSERT ADDRESS OF PROJECT OR ACTIVITY BELO				
Sig	certifica on the s that the general to the m practica function this gen	ersonally examined and am familiar with the information that provide tion, and I affirm, based on the review described in Section 3(<i>b</i>)(11) tandard of care for such projects, that the Stormwater Pollution Con activity authorized under this general permit will comply with the tempermit and that all stormwater management systems: (i) have been aximum extent achievable using measures that are technologically ble and that conform to those in the Guidelines and the Stormwater properly as designed; (iii) are adequate to ensure compliance with eral permit; and (iv) will protect the waters of the state from pollution. To District Professional and Date	(C) of this general permit and trol Plan is adequate to assure ms and conditions of such designed to control pollution available and economically Quality Manual; (ii) will the terms and conditions of			
 Na	me of Dis	strict Professional and License Number (if applicable)				
	Or					
	Revie	w certification by Qualified Professional				
	Con	npany:				
		ne:				
	Lice	ense # :				
Le	vel of inc	dependency of professional:				
Re	quired fo	or 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 r	egistration is being submitted. ☐ Yes			
Re	quired fo	or projects with 15 or more acres of site disturbance (in additio	n to questions 1&2):			
3.		did not engage in any activities associated with the preparation, pla erosion and sediment control plan or stormwater management syste				
	_		Yes			
4.		am not under the same employ as any person associated with the pring of the soil erosion and sediment control plan or stormwater mannt.				

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, [INSERT NAME OF REGISTRANT BELOW]				
submitted to the commissioner by [INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]				
for an activity located at 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."				
Signature of Reviewing Qualified Professional Date:				
Name of Reviewing Qualified Professional License No.:				
Affix P.E./L.A. Stamp Here				

12 of 16

Part X: Supporting Documents

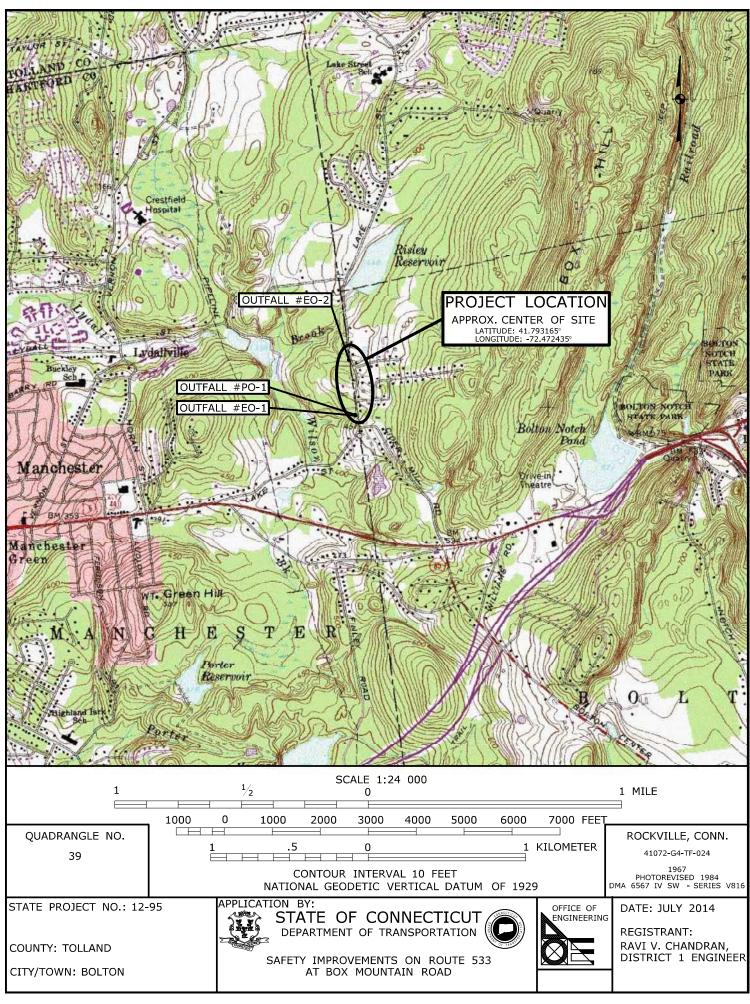
Select the applicable box below for each attachment being submitted with this registration form. When submitting any supporting documents, please label the documents as indicated below (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this certification form.

	Attachment A:	Select here as verification that an 8 ½" X 11" copy of the relevant portion of a USGS Quadrangle Map with a scale of 1:24,000, showing the exact location of the facility has been submitted with this registration. Indicate the quadrangle name on the map, and be sure to include the registrant's name. (To obtain a copy of the relevant USGS Quadrangle Map, call your town hall or DEEP Maps and Publications Sales at 860-424-3555)
	Attachment B:	Documentation related to Coastal Consistency Review, if applicable.
\boxtimes	Attachment C:	Threatened and Endangered Species Form and any additional information (such as a copy of a NDDB map)
	Attachment D:	Conservation or Preservation Restriction Information, if applicable.
\boxtimes	Attachment E:	Where applicable, non-electronic Pollution Control Plan.

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

ATTACHMENT A: 12-95 U.S.G.S. LOCATION PLAN



ATTACHMENT C: THREATENED AND ENDANGERED SPECIES

Information about compliance with the requirements of Section 3(b)(2) of this general permit, regarding threatened and endangered species, is in Appendix A of the general permit. Choose one or more (if applicable) of the following in order to be eligible to register for this General Permit. A registrant who does not or cannot do so is not eligible to register under this General Permit.

\bowtie	0 10					~ · · ·		
$1 \vee 1$	C DIT	Assessment	LICIDA †	$h \triangle RH H H$	mane	SAIACT T	hic Ai	nlv it:
$1/\sqrt{1}$	OCII	499699HEIII	นอแนา	HE MUDD	111005 -	OCICUI	บบอ เม	. IIV II.

a. The site of the construction activity is not entirely, partially or within a ¼ mile of a shaded area depicted on the Department's Natural Diversity Database maps and this determination was made not more than six months before the date of submitting this registration;

AND

b. The entity registering for this General Permit has no reasonably available verifiable scientific, or other credible information that the construction activity could reasonably be expected to have an adverse impact upon a federal or state species listed as threatened or endangered.

Attach a copy of the NDDB map used to conduct the self assessment used to register for this general permit.

Note: Both a and b as used in this section, must be true in order for a Registrant to register for this General Permit using the self-assessment option. If neither is true, a Registrant cannot use the self-assessment option to comply with Section 3(b)(2) and Appendix A of the General Permit.

Limited One-Year Determination – Select this only if:

Department's Wildlife Division ______.

a. The entity registering for this General Permit has obtained a limited one-year determination from the Department's Wildlife Division regarding threatened and endangered species: i) within a year of the date of submitting this registration; or ii) more than 1 year before submitting this registration, but such determination has been extended by the Department within one year of the date of submitting this registration;

AND

b. The Registrant has provided to the Department's Wildlife Division any reasonably available verifiable scientific, or other credible information that the construction activity could reasonably be expected to have an adverse impact upon a federal or state species listed as threatened or endangered.

Provide the date the limited one-year determination was issued by the Department's Wildlife Division or

Provide the date that the most recent extension to a limited one year determination was issued by the

Note: Both a and b as used in this section, must be true in order for a Registrant to register for this General Permit using the Limited One-Year Determination option. If a Limited One-Year Determination or extension to any such determination was issued by the Department's Wildlife Division more than one year before the submission of this registration, a Registrant cannot use any such determination or extension to comply with Section 3(b)(2) and Appendix A of the General Permit.

ATTACHMENT C: THREATENED AND ENDANGERED SPECIES (continued)

Ш	Select here if the Limited One-Year Determination issued by the Department includes a Mitigation Plan.
	Provide the date the Mitigation Plan was approved:
	Governmental Entity Approving the Plan:
	As of the date this Registration is submitted,
	Has the Mitigation Plan been fully implemented? ☐ Yes ☐ No
	Date commenced: Date completed:
	Is the Mitigation Plan partially implemented? ☐ Yes ☐ No
	If yes, what actions have been taken?
	And which actions are yet to be implemented and what is the timeframe for completion of such actions:
	Is the Mitigation Plan yet to be implemented? Yes No
	If yes, specify the timeframe for implementation: to
	And summarize actions to be implemented:
Safe	e Harbor Determination - Select this only if:
	The entity registering for this General Permit has obtained a Safe Harbor Determination from the Department's Wildlife Division regarding threatened and endangered species: i) within 3 years of the date of submitting this registration; or ii) more than 3 years before submitting this registration, but within one-year of a one-year extension issued by the Department's Wildlife Division to a safe harbor determination;
	AND
	The entity registering for this General Permit has provided to the Department's Wildlife Division any reasonably available verifiable scientific, or other credible information that the construction activity could reasonably be expected to have an adverse impact upon a federal or state species listed as threatened or endangered.
Pro	vide the date the Department's Wildlife Division issued a Safe Harbor Determination:
	oplicable, provide the date that any one-year extension to a Safe Harbor Determination was issued he Department's Wildlife Division:
Ger issu regi sect	e: Both a and b as used in this section, must be true in order for a Registrant to register for this neral Permit using the Safe Harbor Determination option. If a Safe Harbor Determination was led by the Department's Wildlife Division more than three years before the submission of this stration, and has not been extended, a Registrant cannot use any such safe harbor to comply with tion 3(b)(2) and Appendix A of this General Permit. If a Safe Harbor Determination was granted and ended for one-year, more than four years before the submission of this registration, a Registrant

general permit.

cannot use any such Safe Harbor Determination to comply with Section 3(b)(2) and Appendix A of the

ATTACHMENT C: THREATENED AND ENDANGERED SPECIES (continued)

Select here if the safe harbor noted above includes a Mitigation Plan.
Provide the date the Mitigation Plan was approved:
Governmental Entity Approving the Plan:
As of the date this Registration is submitted,
Has the Mitigation Plan been fully implemented? ☐ Yes ☐ No
Date commenced: Date completed:
Is the Mitigation Plan partially implemented? Yes No If yes, what actions have been taken?
And which actions are yet to be implemented and what is the timeframe for completion of such actions:
Is the Mitigation Plan yet to be implemented? ☐ Yes ☐ No
If yes, specify the timeframe for implementation: to
And summarize actions to be implemented:

Natural Diversity Data Base Areas

BOLTON, CT

December 2014



State and Federal Listed Species & Significant Natural Communities



Town Boundary

NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources. Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species, For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

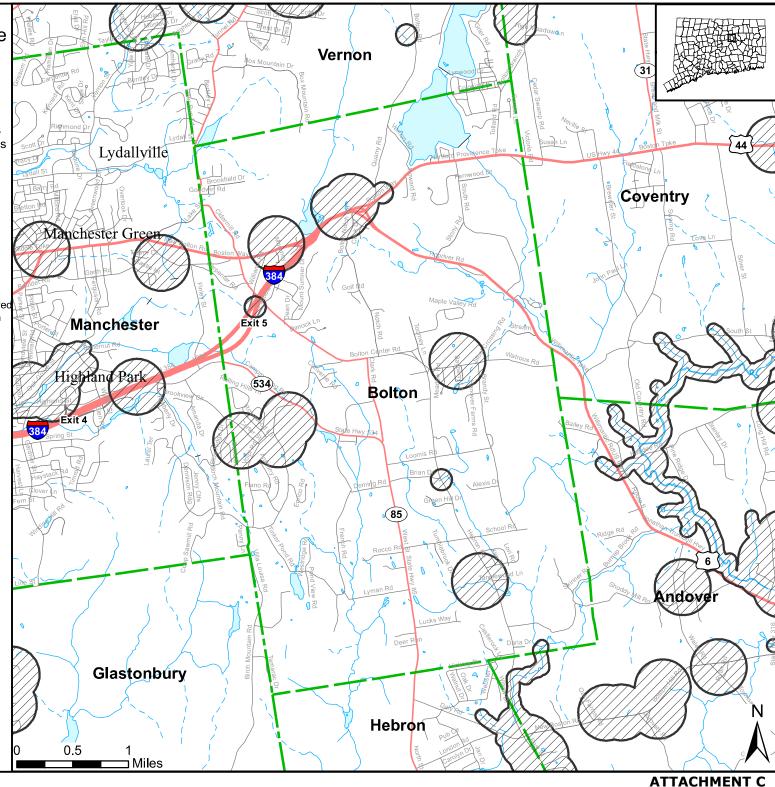
www.ct.gov/deep/nddbrequest

Use the CTECO Interactive Map Viewers at www.cteco.uconn.edu to more precisely search for and locate a site and to view aerial imagery with NDDB Areas.

QUESTIONS: Department of Energy and Environmental Protection (DEEP) 79 Elm St., Hartford CT 06106 Phone (860) 424-3011



Connecticut Department of Energy & Environmental Protection Bureau of Natural Resources Wildlife Division





STORMWATER POLLUTION CONTROL PLAN

Safety Improvements on Route 533 at Box Mountain Road Bolton, CT

State Project No.: 12-95

Connecticut Department of Transportation

January 2015

This Stormwater Pollution Control Plan (SWPCP) 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 SWPCP are the proposed construction plans, special provisions, and the Connecticut Department of Transportation's "Standard Specifications for Roads, Bridges and Incidental Construction" (Form 816), including supplements thereto, and the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control and 2004 Stormwater Quality Manual.

Table of Contents

1.	. Site Description	4
	Site Description	
	Estimated Disturbed Area	4
	Estimated Runoff Coefficient	4
	Receiving Waters	5
	Extent of Wetlands on Site	5
2	. Construction Sequencing	6
۷.	. Construction sequencing	
3.	. Control Measures	6
	Erosion and Sedimentation (E&S) Controls	6
	Temporary Stabilization Practices	
	Permanent Stabilization Practices	
	Structural Measures	
	Maintenance	9
4	. Dewatering Wastewaters	10
••	Dewatering Guidelines	
_	Deat Constant Constant Management	10
Э.	Post-Construction Stormwater Management Post-Construction Guidelines	10
	Post-Construction Guidelines Post-Construction Performance Standards and Control Measures	
	Post-Construction Performance Standards and Control Measures	10
6.	. Other Controls	12
	Waste Disposal	12
	Washout Âreas	12
	Dust Control	12
	Post-Construction	13
	Maintaining and Storing Vehicles and Equipment	13
7	. Inspections	12
	Inspection Guidelines	

8. Keeping Plans Current	14
Revisions to Stormwater Pollution Control Plans	14
9. Monitoring Requirements	15
10. Contractors	15
General	
Certification Statement	16
List of Applicable Figures and Forms:	
Appendix A – Project Location	
Appendix B – Disturbed Areas and Drainage Calculations	18
Appendix C – Plan Sheets	18
Appendix D – Stormwater Monitoring Report Form	18
Appendix E – Notice of Termination Form	18

1. Site Description

Site Description

This project consists of the reconstruction of a section of Route 533 (Lake Street), between, Goodwin and Box Mountain Roads, in the Town of Bolton. The site lies adjacent to the Manchester Town Line and approximately 1,000 feet south of the Vernon Town Line. Route 533 is classified as a two-lane minor urban arterial traveling in the north-south direction, and roadside development is primarily residential. The project is located within a public water supply watershed, for which special requirements must be followed during construction.

The purpose of this project is to improve safety on Route 533 in the vicinity of Box Mountain Road. The project was initiated to address crash history, mainly a pattern of fixed-object type crashes, at this location. The existing roadway consists of the combination of a crest vertical curve at the transition of reverse horizontal curves with limited sightline, making it difficult for some drivers to perceive oncoming horizontal geometry, particularly in the northbound direction. The existing roadway width also varies between about 23 and 26 feet.

Site work will include: realignment of both the horizontal and vertical curves on Route 533 within the project limits; minor widening of Route 533 to be more consistent with adjacent stretches of roadway; minor driveway reconstruction; minor additions and adjustments to the existing drainage systems; roadside grading; and clearing of sightline obstructions and roadside hazards as necessary. Full-depth reconstruction will be required for the entire length of project, including the entrances of the two connecting side roads.

Estimated Disturbed Area

The total area for this project site is 2.79 acres. Of this area, 2.20 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.

Table 1: Pre-Construction Drainage Conditions

Outlet ID	Drainage	Area (ac.)
Outlet ID	Paved	Unpaved
EO-1	0.45	78.70
EO-2	0.21	7.88
Total	0.66	86.58

Pre-Construction Composite Runoff Coefficient:

$$(0.66 \text{ ac. } \times 0.9) + (86.58 \text{ ac. } \times 0.3) \approx 0.31$$

(0.66 ac. + 86.58 ac.)

Do Not Need Tables

Table 2: Post-Construction Drainage Conditions

Outlet ID	Drainage	Area (ac.)
Outlet ID	Paved	Unpaved
EO-1	0.08	76.08
EO-2	0.31	7.78
PO-1	0.37	2.62
Total	0.76	86.48

Post-Construction Composite Runoff Coefficient:

$$(0.76 \text{ ac. } \times 0.9) + (86.48 \text{ ac. } \times 0.3) \approx 0.31$$

 $(0.76 \text{ ac.} + 86.48 \text{ ac.})$

Receiving Waters

The receiving waters are wetlands, which ultimately drain to Lydall Brook.

Extent of Wetlands on Site

Wetlands exist in the vicinity of two culverts located within the project limits, one near the north end and one near the south end. The wetlands will not be disturbed by the proposed construction activity.

2. Construction Sequencing

The Contractor will be given approximately one construction season for the construction of all phases of the project.

The suggested sequence of construction is as follows:

- 1. Conduct a preconstruction meeting.
- 2. Install erosion controls at the effected inlets and at limits of disturbed slopes.
- 3. Perform clearing and grubbing activities.
- 4. Complete any roadside grading on Route 533, Goodwin and Box Mountain Roads required specifically for the relocation of utilities.
- 5. Install new drainage systems. Set erosion controls around catch basin inlets and ensure that outlet protection is in place as shown on plans prior to the discharge of any flow through the drainage system.
- 6. Install pavement base and pavement structure.
- 7. Grade grass slopes and immediately stabilize. Establish turf, per plan, on all remaining disturbed areas.
- 8. Remove erosion controls once all disturbed areas have been stabilized as determined by the Engineer.
- 9. Clean all post-construction stormwater structures of construction sediment and remove any remaining silt fence prior to filing of the "Notice of Termination Form".
- 10. Perform project clean-up.

If the construction sequencing activities create an area of disturbance between two (2) acres and five (5) acres per discharge point, 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 Guidelines. The Contractor shall provide an inspection and maintenance plan for the temporary sedimentation trap as part of the amended SWPCP.

3. Control Measures

Erosion and Sedimentation (E&S) Controls

CT DOT will have construction inspection personnel assigned to the project in order to oversee the Contractor's operations to ensure compliance with the provisions of the Standard Specifications. Further CTDOT oversight is provided by the District 1 Environmental Coordinator and the Office of Environmental Planning.

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

- If construction activities are complete or have been temporarily halted for more than seven (7) days, stabilization activities will be implemented within three (3) days.
- Areas that remain disturbed but inactive for at least 30 days shall receive temporary seeding or soil protection within seven (7) days.
- Disturbed areas that do not establish a vegetative cover within 30 days of seeding shall have erosion control blankets installed. Prior to the erosion control blanket installation, the soil would be prepared with the application of lime, fertilizer, and seed.
- 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.
- Stabilization practices will be implemented as quickly as possible in accordance with the Guidelines.
- 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 816 Section 1.10.03, Best Management Practices.

Temporary Stabilization Practices

The following methods of temporary stabilization shall be used:

- <u>Erosion Control Matting</u>: On slopes steeper than 2:1, erosion control matting shall be used to stabilize the topsoil.
- Silt Fence: Silt fence shall be placed at the base of embankments.
- <u>Dust Control</u>: Routine sweeping and application of dust suppression agents, including water and calcium chloride, over exposed subbase shall be completed for dust control.
- <u>Temporary Seeding</u>: On soils to be exposed for a period greater than 1 month but less than 1 year, temporary seeding shall be used to temporarily stabilize the soil until permanent stabilization is be established.
- <u>Catch Basin Inlet Protection</u>: 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 no more than three days after completion, as final grades are reached, or if work has been suspended for more than seven days.

Temporary seeding shall be spread over any disturbed areas which will remain inactive for at least 30 days. Areas to remain disturbed through winter shall be protected with non-vegetative stabilization measures. The Contractor must provide an E&S 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 Connecticut Guidelines for Erosion and Sediment Control 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 every seven calendar days. These areas shall also be inspected within 24 hours following any storm in which 0.5 inches or greater of rain occurs.

Permanent Stabilization Practices

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

- <u>Permanent Seeding</u>: Once soils have been brought to final grade, permanent seeding shall be used to stabilize the soil with a vegetative cover.
- <u>Topsoiling</u>: In conjunction with permanent seeding, once final grades have been established, topsoil shall be applied to provide a suitable growth medium for vegetation.

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 Engineer and conforming to the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control.

Structural Measures

The following structural measures shall be used to divert flows, limit runoff, and minimize the discharge of pollutants:

- <u>Minimal Curbing</u>: Curbing shall be avoided wherever possible to maximize overland sheet flow and enhance infiltration.
- <u>Outlet Protection</u>: Riprap outlet protection shall be used at the proposed outlet to decrease velocity and the potential for erosion.

• <u>Deep Sump Catch Basins</u>: Deep sump catch basins (4-foot sump) shall be used, especially adjacent to outlets, to intercept pollutants and debris.

Maintenance

All construction activities and related activities shall conform to the requirements of Section 1.10 "Environmental Compliance" of CTDOT's Standard Specifications, Form 816. In general, all construction activities shall proceed in such a manner so as not to pollute any wetlands, watercourses, water bodies, and conduits 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 1.10.03 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.

The Contractor will be responsible to implement, operate, monitor and perform the required maintenance of the E&S control measures described, shown and detailed on the Construction Documents. The Contractor will be familiar with all aspects of the named control measures and be responsible for the correction of any failures by repair or modifications as may be recommended by an E&S professional and in coordination with CTDOT District 1 Construction, CTDOT Office of Environmental Planning, and the Department of Energy and Environmental Protection.

The following Maintenance practices will be completed as part of this Contract:

- All E&S controls will be inspected within 24 hours of a storm event (0.1 inches) to ensure
 they are still properly located and anchored and in good working condition. All necessary
 repairs and/or replacements will be made promptly by the Contractor as needed. Sediment
 and debris build-up will be removed by the Contractor as required based upon the outcome
 of inspection.
- Perimeter sediment control systems will be inspected daily to ensure they are properly secured and functioning as designed. Cleaning will occur when accumulated sediments reach one-half of the original height of the silt or hay bale fence or as directed by the Engineer. If perimeter fencing is breached at any location, the breach will immediately be repaired by the Contractor, and the repair will be verified by the Engineer and/or the inspecting agent.
- Following the completion of construction, the Contractor will repair any eroded areas as directed by the Engineer. The Contractor will repair all eroded slopes, displaced riprap, or geotextile matting and will clean any sediment from exposed riprap surfaces.
- The Contractor will clear sediment and debris from all drainage structures and pipes as required in order to keep the system functioning properly during construction.

• Following final stabilization, the Contractor will remove all silt fencing.

4. Dewatering Wastewaters

Dewatering Guidelines

If encountered, dewatering wastewaters will be infiltrated into the ground unless otherwise directed by the Engineer. When dewatering is necessary, pumps used shall not be allowed to discharge directly into a wetland or watercourse. Prior to any dewatering, the Contractor must submit to the Engineer a written proposal for specific methods and devices to be used and 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 CTDOT Form 816.

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 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 and repaired annually or as needed.
- Outlets will be checked for excessive scour and repaired as needed.

Post-Construction Performance Standards and Control Measures

The project site is previously developed with an effective impervious cover of approximately

38%, classifying the project as 'Other Development'. Accordingly, the full water quality volume for the site should be retained within the site limits. The following values were calculated for the post-construction site conditions:

Effective Impervious Cover:

Effective Impervious Cover
$$= \frac{\text{Impervious Area of Site (acre)}}{\text{Total Area of Site (acre)}} \times 100\%$$
$$= \frac{1.14 \text{ acres}}{2.79 \text{ acres}} \times 100\%$$
$$= 40.86\%$$

Water Quality Volume:

Though the impervious area of the site will increase slightly, due to minor widening of the roadway and partial driveway reconstruction, many of the control measures to be installed are not used today and will be an improvement to existing conditions.

Right-of-way constraints and the proximity of adjacent wetlands to the project site provide limited opportunity for runoff reduction, low impact development (LID), and the use of primary stormwater treatment practices. Stormwater retention and treatment, though not at standards, will be applied to the maximum extent possible.

One technique that will be used, to minimize runoff and incorporate LID methodologies, is to apply the minimal amount of curbing required throughout the project area, thereby maximizing overland sheet flow and promoting stormwater infiltration.

A goal of 80% removal of the average annual post-construction total suspended solids load was used in designing stormwater management measures. One conventional secondary stormwater treatment practice that will be used is the installation of deep sump catch basins, the bottom 4-feet below the pipe invert, to catch excess debris and sediment.

To address stormwater velocity and discharge, a riprap apron will be established at the location of the new outfall to help dissipate the speed of the stormwater as it approaches the wetlands. Sizing calculations for the riprap apron can be found in Appendix B. Discharges for the two existing outfalls will remain approximately the same or decrease, and much of the stormwater flowing from off-site is expected to infiltrate prior to reaching the project area.

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.
- 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 defined 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 wastewater will be directed into a container or pit such that no overflow 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 CTDOT Office of Environmental Planning.

The designated area shall be designed and maintained such that no overflow can occur during rainfall or after snowmelt. 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 overflow. All concrete waste shall be disposed of in a manner consistent will all applicable laws, regulations and guidelines.

Dust Control

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 the new riprap apron, shall be cleaned of construction sediment, and any remaining silt fence shall be removed prior to acceptance of the project by CTDOT. 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

Inspection Guidelines

All construction activities shall be inspected initially for Plan implementation and then weekly for Routine Inspections.

During construction, all areas disturbed by the construction activity that have not been stabilized, all E&S 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 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 only for storms that equal or exceed 0.5 inches. 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 once every month for three months.

Qualified personnel provided by the DOT District 1 Office shall conduct Inspections.

The following items shall be inspected as described below:

<u>Item</u>	<u>Procedure</u>
Silt Fence	Silt fence 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.
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.
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.

8. Keeping Plans Current

Revisions to Stormwater Pollution Control Plans

CTDOT 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. 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 the 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. Monitoring Requirements

A written report summarizing the scope of the inspection, the name(s) and qualifications of inspection personnel, the date and time of the inspection, major observations relative to the implementation of the Pollution Control Plan, and actions taken shall be completed within 24 hours of the inspection. This report shall be retained as part of the Stormwater Pollution Control Plan for at least five years after the date of the inspection.

Turbidity monitoring shall be conducted at the three outlet locations depicted on the Plan utilizing a procedure consistent with 40 CFR Part 136 (http://www.epa.gov/region9/qa/pdfs/40cfr136_03.pdf) and may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings. The first sample shall be taken within the first hour of stormwater discharge from the site and at least three grab samples shall be taken during a storm event and shall be representative of the flow and characteristics of the discharge. Sampling shall be conducted at least monthly when there is a discharge of stormwater from the site while construction activity is ongoing, until final stabilization of the drainage area associated with each outfall is achieved.

Samples shall be taken during normal working hours, which, for this project, shall be defined as Monday through Friday, 8 a.m. to 5 p.m. If a storm continues past working hours, sampling shall resume the following morning or the morning of the next working day following a weekend or holiday, as long as the discharge continues. Sampling may be temporarily suspended when conditions exist that may reasonably pose a threat to the safety of the person taking the sample.

Within 30 days following the end of each month, the stormwater sampling results shall be submitted on the Stormwater Monitoring Report (SMR) and in accordance with NetDMR. If there is no stormwater discharge during a month, sampling is not required, however, SMRs indicating "no discharge" shall still be submitted as required.

10. 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. 12-95

Safety Improvements on Route 533 at Box Mountain Road Bolton, 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 associated with construction activity. 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:	<u> </u>
Firm:	Telephone:
Address:	

List of Applicable Figures and Forms:

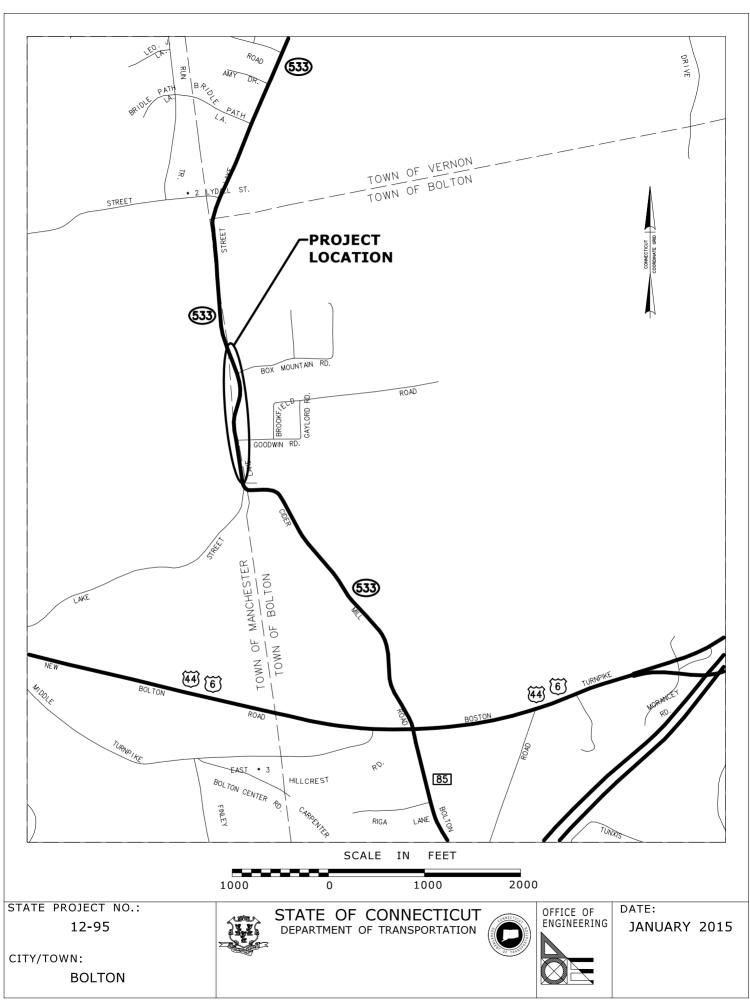
Appendix A – Project Location	
Location Plan	Figure A-1
Aerial Photo	Figure A-2
Appendix B – Disturbed Areas and Drainage Calc	ulations
Disturbed Area Per Outfall	Figure B-1
Outlet Protection – Outfall #PO-1	Figure B-2
Water Quality Volume Calculations	Figure B-3
Appendix C – Plan Sheets	
Typical Sections	Figure C-1
Miscellaneous Details Proposed Riprap Apron	Figure C-2
 E&S Protection at Culverts 	
Highway Plan	Figure C-3
Drainage Plan	Figure C-4
Intersection Grading Plan	Figure C-5
A	

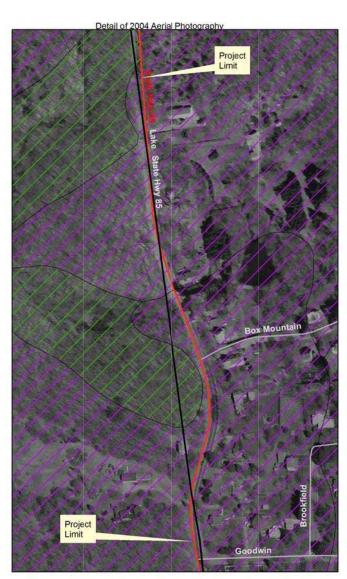
Appendix D – Stormwater Monitoring Report Form

Appendix E – Notice of Termination Form

Appendix A – Project Location

Location Plan (Figure A-1)
Aerial Photo (Figure A-2)

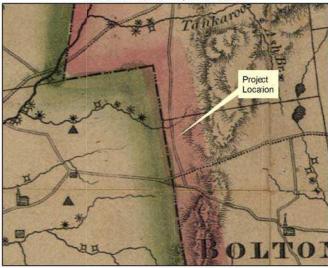


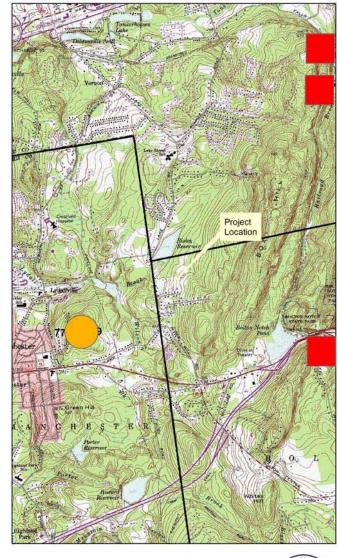


H. Spencer Project Location

Detail of Walling 1859 Map of Middlesex County

Detail of 1811 Warrren Map of Connecticut





Detail of USGS Topo Map

Office of Intermodal & Environmental Planning **Environmental Review - Historical and Archaeological Resources**

This product was created using TeleAtlas Information @1984-2008 Tele Atlas, Rel. 3/2008.

State Project 12-95 Safety Improvements on Rt 533 at Box Mountain Rd. Bolton

Predicted Archaeological Soil Sensitivity

Approximate Location of Archaeological Site **Historic District**

Cemetery/ 4(f) Resource

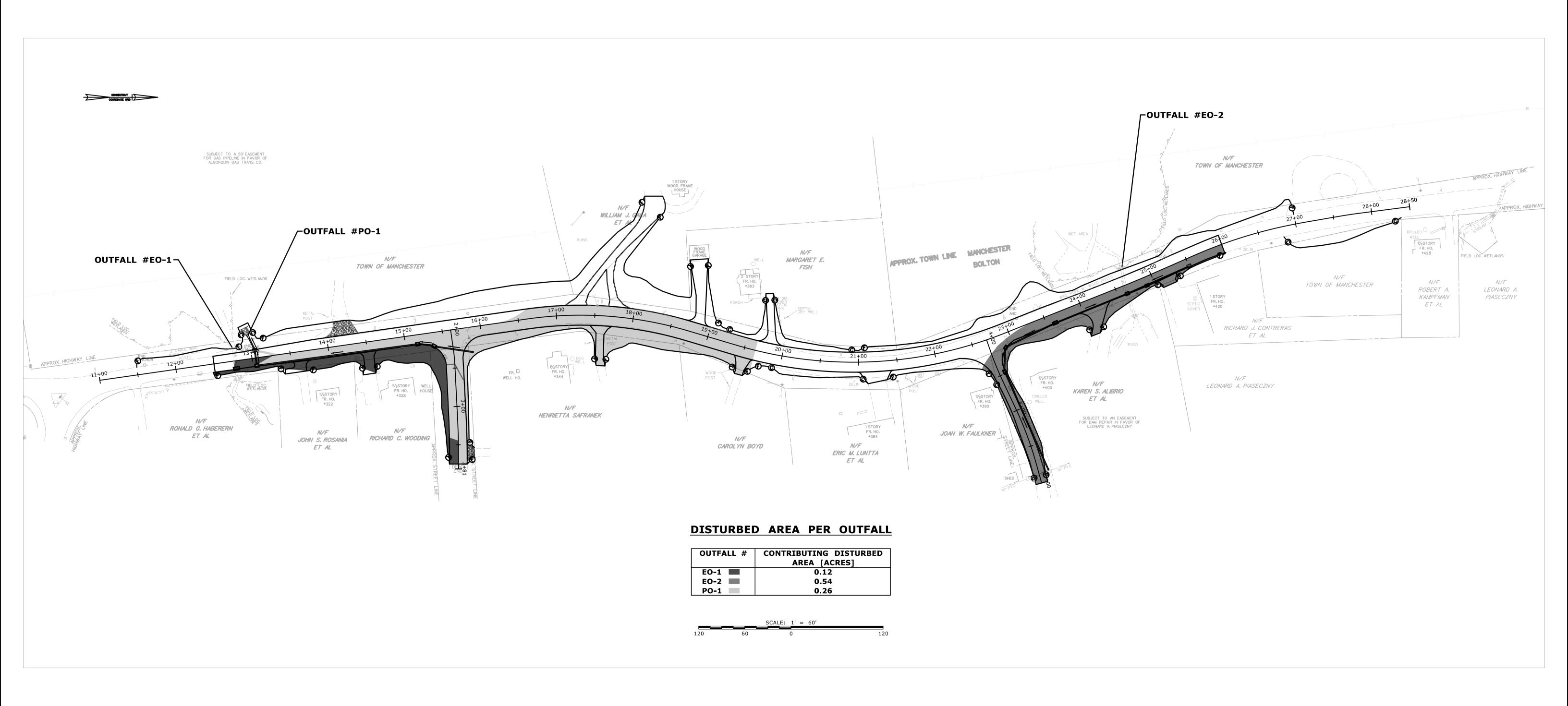
Historic Prehistoric Unknown



December 6, 2010

Appendix B – Disturbed Areas and Drainage Calculations

Disturbed Area Per Outfall (Figure B-1)
Outlet Protection – Outfall #PO-1 (Figure B-2)
Water Quality Volume Calculations (Figure B-3)



Appendix A - Outlet Protection Form

OUTLE	ET PROTECTION
Project No.: 12-75 Town: 12-75 Route: 533	Designed By: J. DARLING Date: 3/17/14 Checked By: Date: Station:
1. Assess the erosion potential at the outl	let and other critical site factors
Describe the conditions at the outlet loca	ation: Sketch
⊠ No well-defined channel ☐ Well-defined channel	
2. Determine the tailwater (TW) condition TW depth: 0.37 ft TW computational method: 5-to- Channel bed elevation: -	TW elevation: 439.57 ft Estimated velocity in channel:
Length: 28 ft Slope: 5,56 Outlet Velocity at design discharge:	ity for the design discharge Design Frequency: 10 yr Type: RCP Outlet Invert Elevation: 439,20 ft 9.57 fps Form & Sanitary
4. Select the type of outlet protection	
⊠ Riprap Apron (See Figures 11-13 & 11-14)	☐ Preformed Scour Hole (See Figure 11-15)
$\begin{array}{c cccc} \text{Type} & \underline{A} & (A,B,C) \\ \text{Riprap type:} & \underline{\text{Intermediate}} \\ \text{Length } (L_a): & \underline{\text{Io ft}} \\ \text{Width } (W_1): & \underline{\text{3.75'}} \\ \text{Width } (W_2): & \underline{\text{Io. 75'}} \\ \text{Width-Type C } (W_3): & \underline{} \end{array}$	Type 1 Type 2 d ₅₀ F C B S _p
	Proposed Type:

DATE PREPARED 3/17/14 DATE CHECKED	PREPARED BY J. DAR.LING CHECKED BY	State of Connecticut Department of Transportation Bureau of Engineering & Highway Operations DES-003 REV 1-93 (302-06-0225) COMPUTATION SHEET	ORGANIZATION UNIT NO.	WORK ORDER NO. 12-95 SHEET NO.
SUBJECT:				
Dystem.	A - Tailw	rater Calcs		
d The RA	0.37	1 2 0,5 Rp = 0	0.5 (15/12)	= 0.625
.4	1 = 9.57 F	PS < 14 FPS		
°. La	= 3 (6	2-5) + 10		
	= 3 (2	.92-5)+10		
La	≈ 5.5' ~	12/	inage Manu able 11-12,1	a1,7
· Wi	= 3Sp = 3(15/12) 2 W2		6.7 La 2)+0.7(10)
W	= 3.75'		WALLEY TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T	

Water Quality Volume (WQV) Calculations

Post-Construction Conditions

PROJECT NO. 12-95 PREPARED BY J. Darling
DATE July 16, 2014 CHECKED BY J. Tanski
PROJ. DESC. Safety Improvements on Route 533

 ${\bf GIVEN:} \ \ \, {\bf This\ project\ is\ classified\ as\ 'Other\ Development'\ (Site < 40\%\ impervious);}$

therefore, the full WQV should be retained and treated.

FIND: The Full Water Quality Volume for the Site.

ON-SITE DRAINAGE TO OUTLETS [ACRE]

Outlet ID *	Impervious Area	Grassy/Wooded Area
EO-1	0.04	0.13
EO-2	0.25	0.16
PO-1	0.41	0.23

^{*} Refer to General Permit Attachment A (USGS Location Plan) for Corresponding Outlet Locations

TOTAL SITE COMPOSITION [ACRE]

Impervious Area	Grassy/Wooded Area
1.14	1.65

WATER QUALITY VOLUME (WQV) CALCULATION

Total Site Area, A = 2.79 acres

Design Precipitation, P = 1 inch

% Impervious Cover, I = 41

% Impervious Cover, I = 41
Volumetric Runoff Coefficient, R = 0.418

WQV =	(P x R x A) / 12	ac-ft	
=	0.097	ac-ft	

Appendix C – Plan Sheets

Typical Sections (Figure C-1)

Miscellaneous Details (Figure C-2)

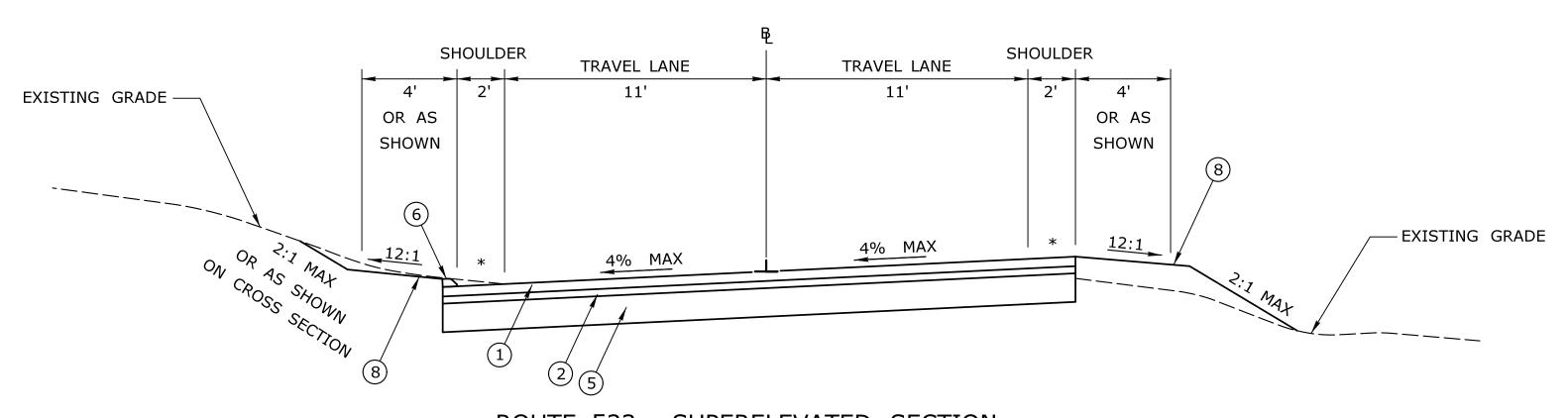
Highway Plan (Figure C-3)

Drainage Plan (Figure C-4)

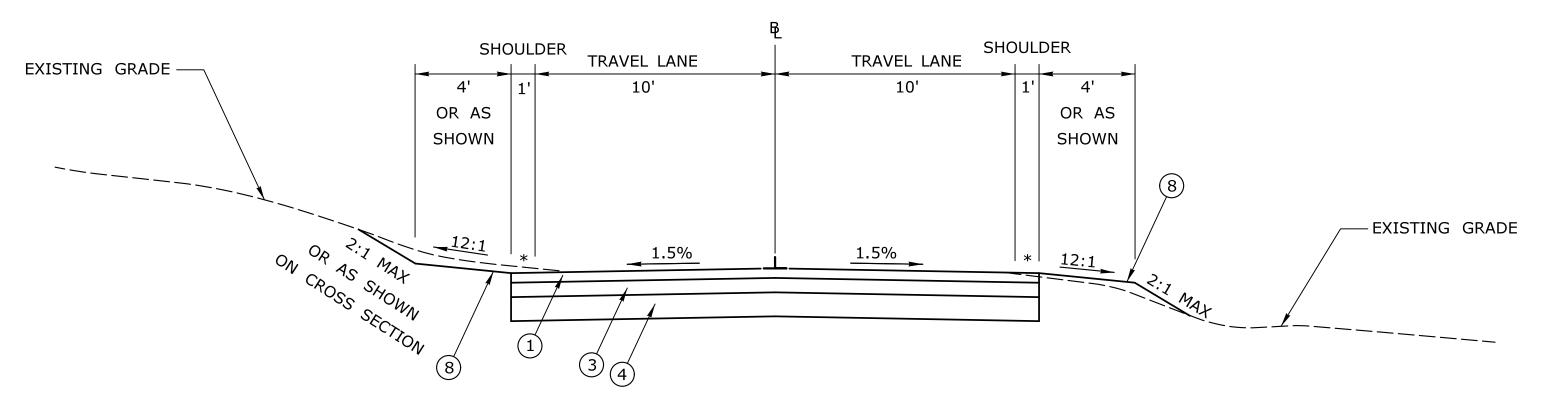
Intersection Grading Plan (Figure C-5)

SHOULDER SHOULDER TRAVEL LANE TRAVEL LANE 11' 11' OR AS -EXISTING GRADE SHOWN SHOWN EXISTING GRADE — 2:1 MAX 2:1 MAX OR AS SECTION CROSS SECTION

ROUTE 533 - NORMAL SECTION STA. 12+50 TO STA. 15+91 STA. 23+64 TO STA. 26+00



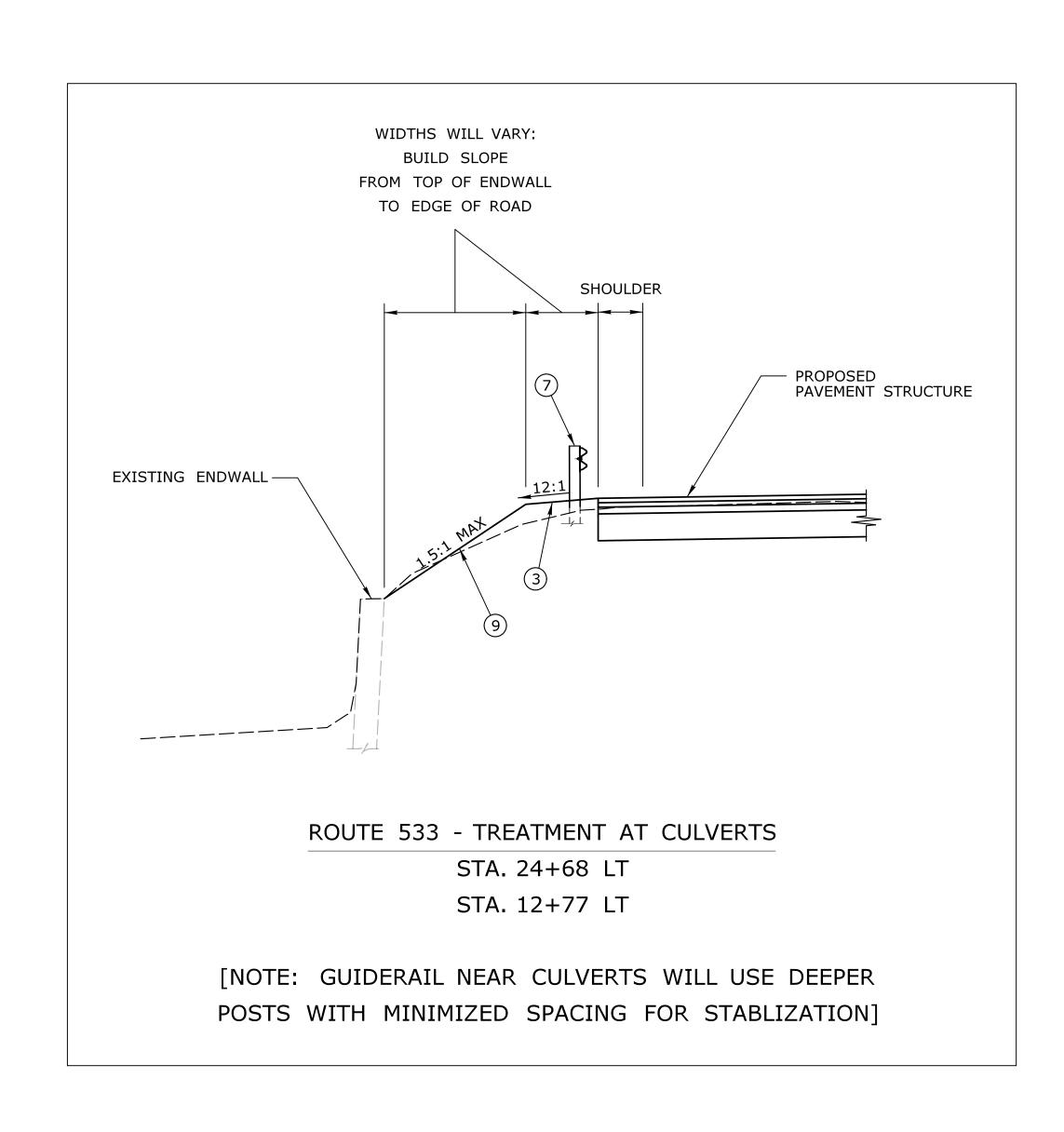
ROUTE 533 - SUPERELEVATED SECTION STA. 15+91 TO STA. 19+07.5 [SUPERELEVATED IN OPP. DIRECTION] STA. 19+07.5 TO STA. 23+64

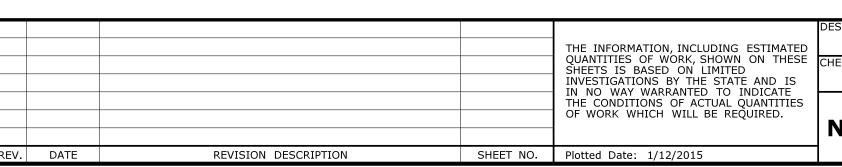


SIDE ROAD - NORMAL SECTION GOODWIN RD: STA. 2+13 TO STA. 3+75 BOX MOUNTAIN RD: STA. 4+13 TO STA. 6+00

<u>LEGEND</u>

- 1 4" HMA S0.5 (PLACED IN TWO EQUAL LIFTS)
- (2) 3" HMA S1
- (3) 6" PROCESSED AGGREGATE
- (4) 10" SUBBASE (PLACED IN TWO EQUAL LIFTS)
- (5) 12" PROCESSED AGGREGATE BASE (6) CURBING AS SHOWN ON PLANS
- (7) GUIDE RAIL AS SHOWN ON PLANS
- (8) 'TURF ESTABLISHMENT' OR 'TURF ESTABLISHMENT LAWN' (AS SHOWN ON PLANS) PLACED ON 6" TOPSOIL
- (9) SPECIAL RIPRAP (COMPACTED FOR SLOPE PROTECTION)
- * SLOPE OF SHOULDER SAME AS ADJACENT TRAVEL LANE





JED NOT TO SCALE

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION** Filename: ...\HW_MSH_0012_0095_TYP-01.dgn

OFFICE OF ENGINEERING

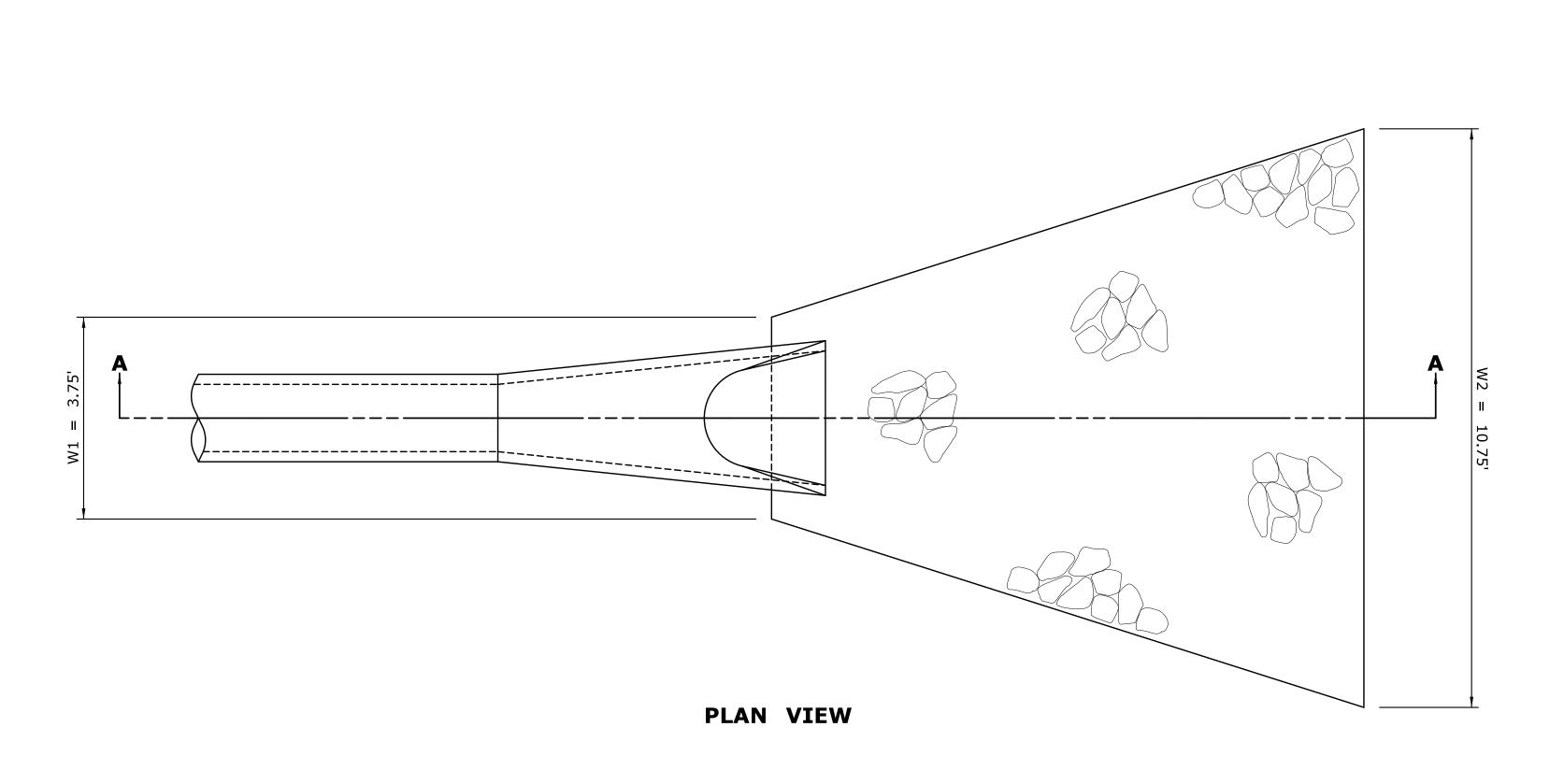
SAFETY IMPROVEMENTS ON ROUTE 533 AT BOX MOUNTAIN ROAD

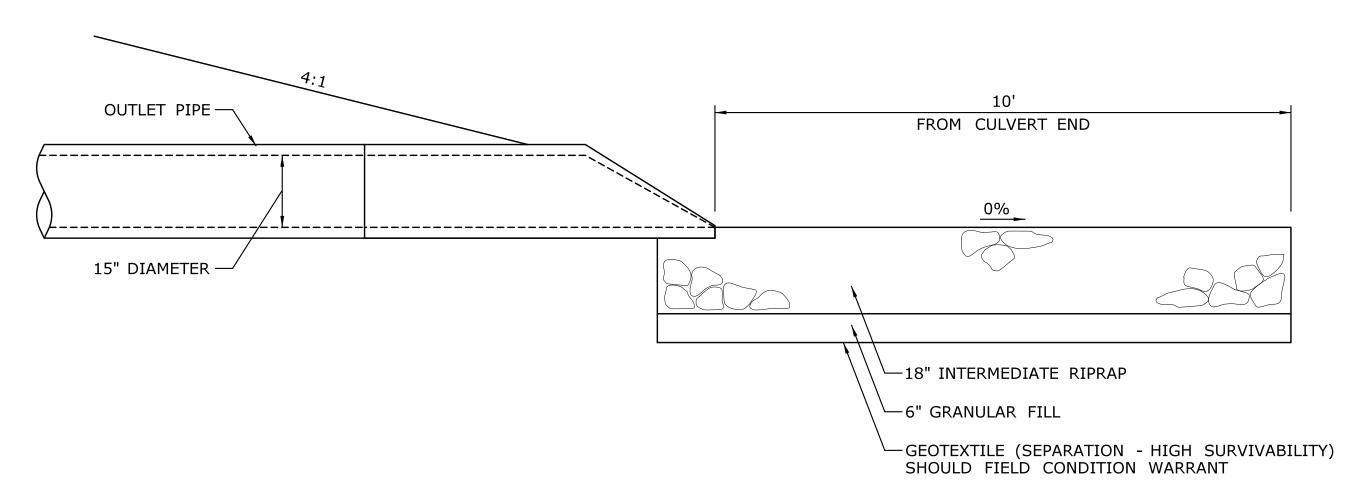
BOLTON TYPICAL SECTIONS

SHEET NO.

12-95

TYP-01





SECTION A-A

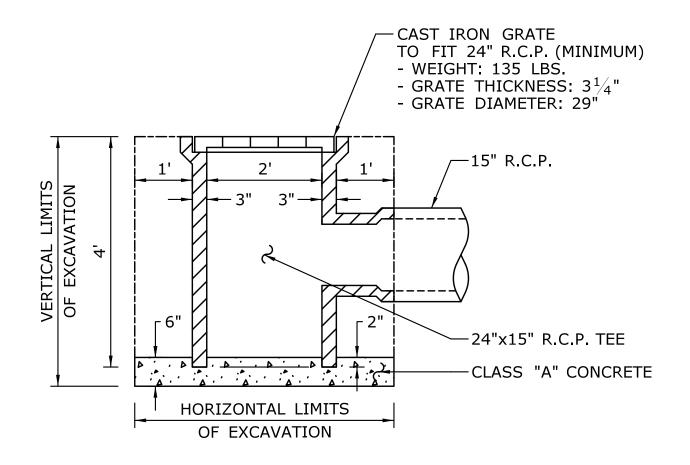
TYPE A INTERMEDIATE RIPRAP APRON WITH R.C.C.E. ROUTE 533 - STA. 12+96 LT

NOTES:

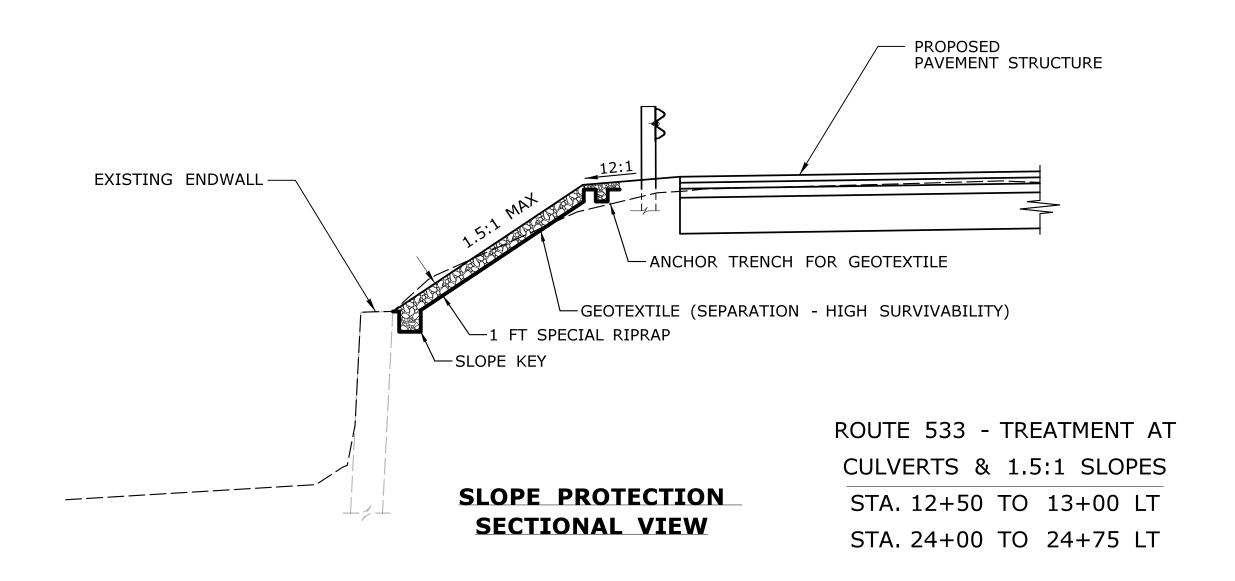
- 1. INTERMEDIATE RIPRAP APRON SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICES FOR CHANNEL EXCAVATION, INTERMEDIATE RIPRAP, AND GRANULAR FILL.
- 2. THERE WILL BE NO DIRECT PAYMENT FOR GEOTEXTILE (SEPARATION HIGH SURVIVABILITY). THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR INTERMEDIATE RIPRAP.

NOTES:

1.WORK AND MATERIALS WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE FOR LAWN DRAIN.



LAWN DRAIN DETAIL



NOTES:

1.WORK WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE FOR THE VARIOUS ITEMS INVOLVED.

2. MATERIALS, CONSTRUCTION METHODS, AND PAYMENT SHALL CONFORM TO THE FOLLOWING; SPECIAL RIPRAP - SECTION 7.03; AND GEOTEXTILE (SEPARATION - HIGH SURVIVABILITY) - SECTION 7.55.

					DE
				THE INFORMATION, INCLUDING ESTIMATED	
				QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	СН
				INVESTIGATIONS BY THE STATE AND IS	
				IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES	
				OF WORK WHICH WILL BE REQUIRED.	l
RFV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/12/2015	1

	DESIGNER/DRAFTER:
ED SE	JED/EKM
SE	CHECKED BY:
5	JNT
≣S	

NOT TO SCALE

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0012_0095_MDS-01.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

SAFETY IMPROVEMENTS ON ROUTE 533 AT BOX MOUNTAIN ROAD BOLTON

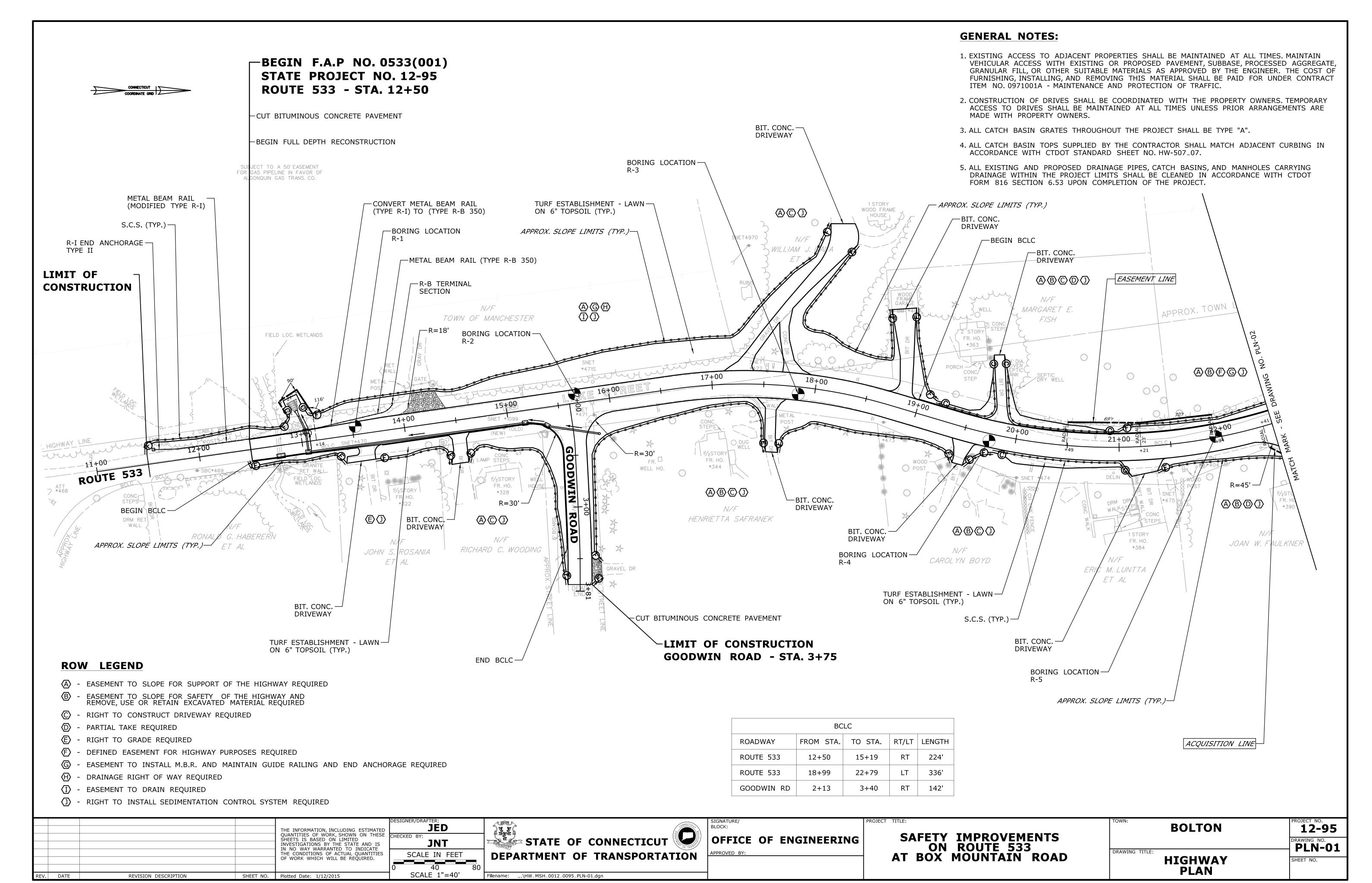
BOLTON

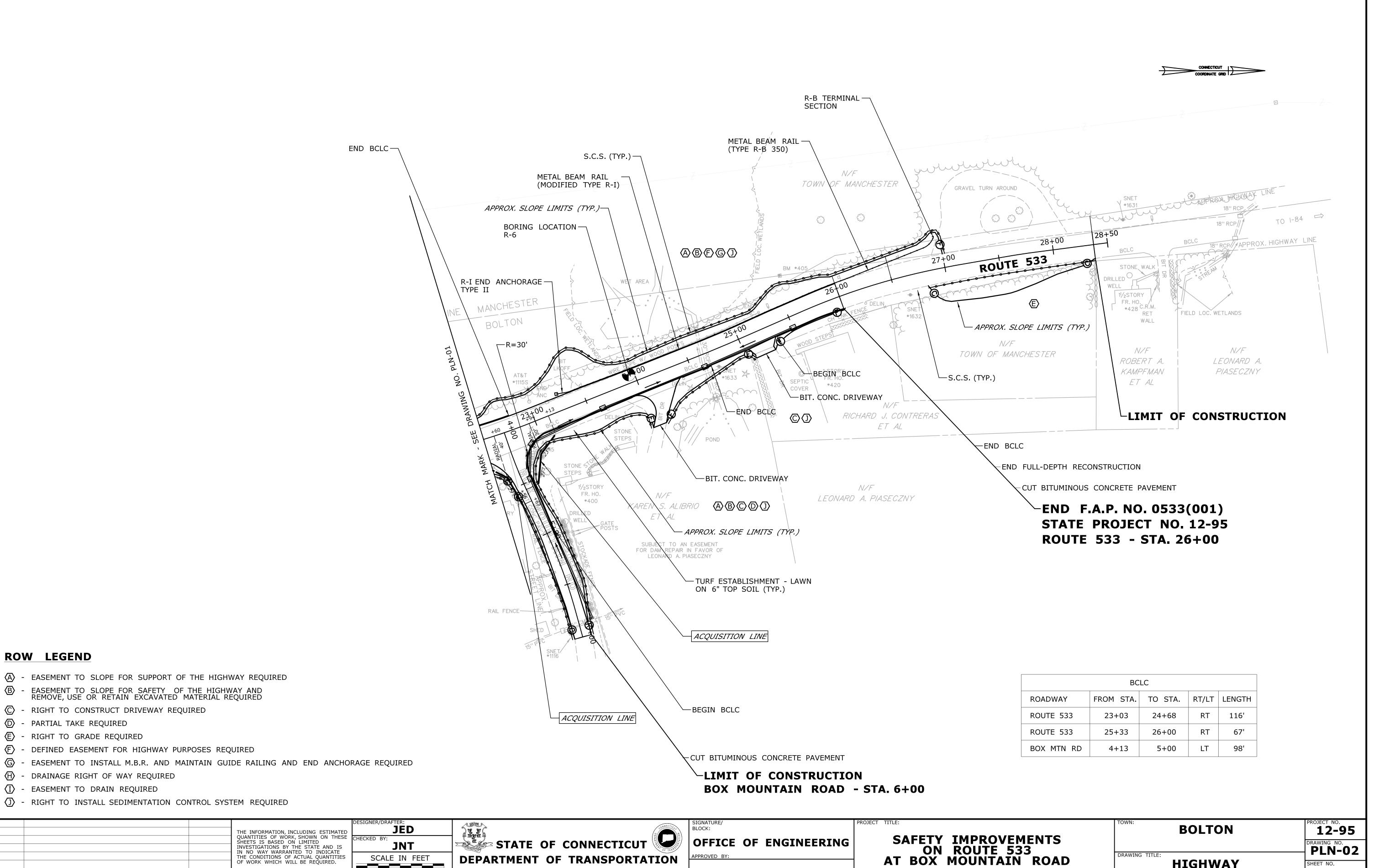
12-95

DRAWING NO.

MDS-01

SHEET NO.





ROW LEGEND

REV. DATE

(D) - PARTIAL TAKE REQUIRED

(E) - RIGHT TO GRADE REQUIRED

(H) - DRAINAGE RIGHT OF WAY REQUIRED

(I) - EASEMENT TO DRAIN REQUIRED

(B) - EASEMENT TO SLOPE FOR SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED

F - DEFINED EASEMENT FOR HIGHWAY PURPOSES REQUIRED

THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SHEET NO. Plotted Date: 1/12/2015

SCALE IN FEET

SCALE 1"=40'

DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0012_0095_PLN-02.dgn

C - RIGHT TO CONSTRUCT DRIVEWAY REQUIRED

REVISION DESCRIPTION

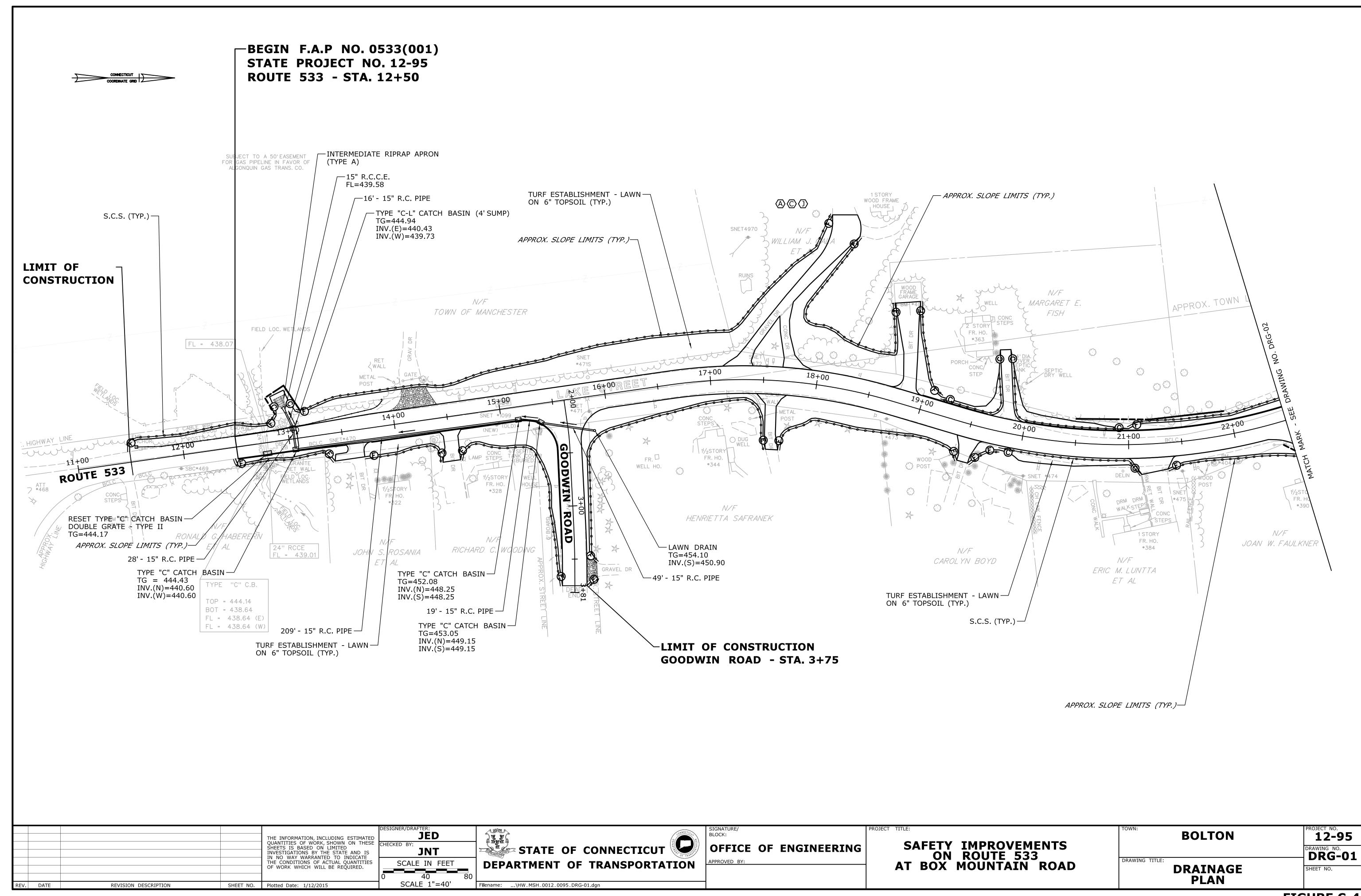
FIGURE C-3

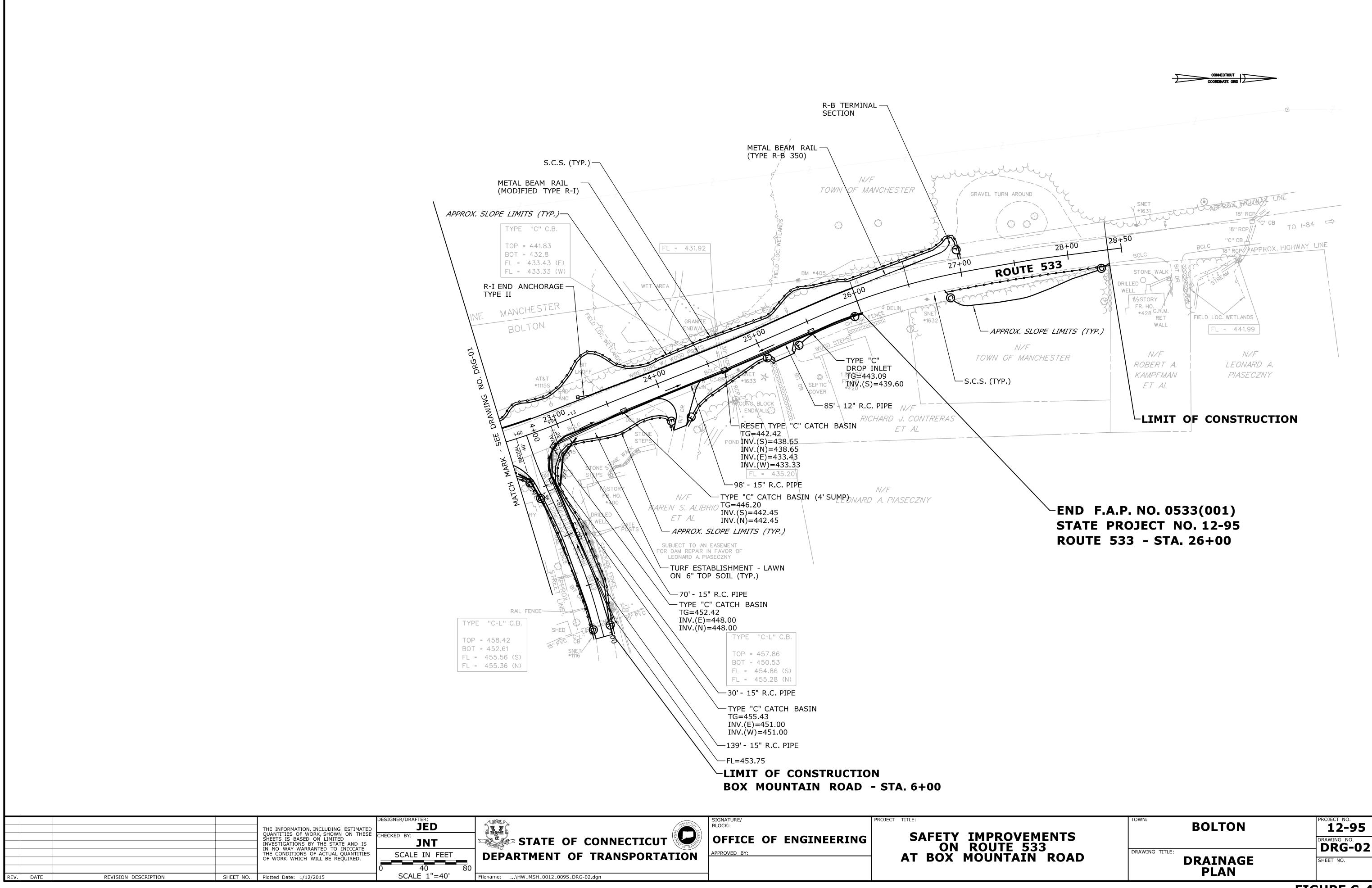
SHEET NO.

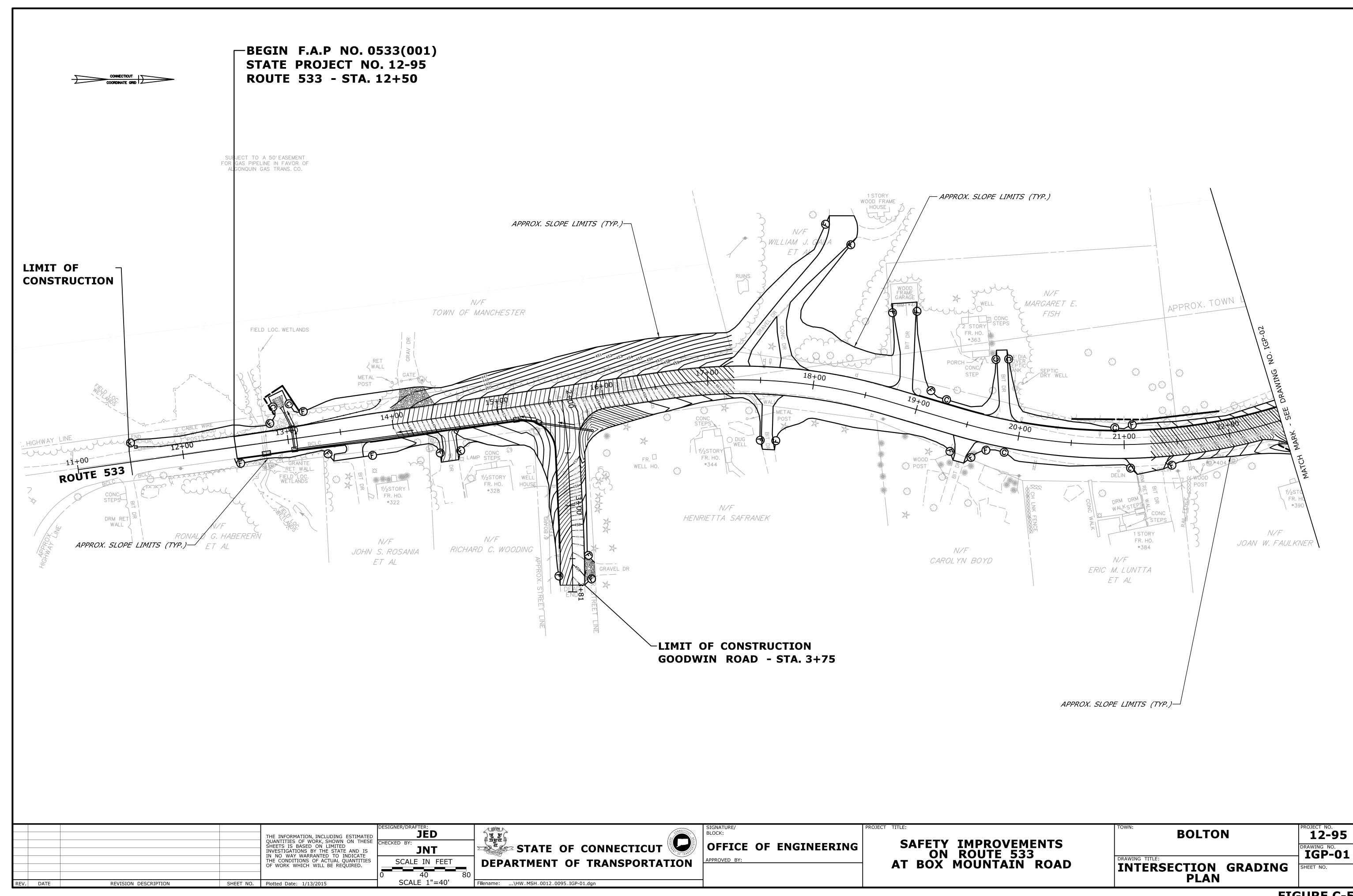
DRAWING TITLE:

HIGHWAY

PLAN







N/F TOWN OF MANCHESTER GRAVEL TURN AROUND APPROX. SLOPE LIMITS (TYP.)— TO 1-84 🗁 APPROX. HIGHWAY LINE ROUTE 533 11/2STORY MANCHESTER FR. HO. #428 C.R.M. RET FIELD LOC. WETLANDS BOLTON WALL — APPROX. SLOPE LIMITS (TYP.) N/F N/F N/F TOWN OF MANCHESTER ROBERT A. LEONARD A. 1 STORY FR. HO. #420 PIASECZNY KAMPFMAN ET AL N/F LIMIT OF CONSTRUCTION RICHARD J. CONTRERAS ET AL N/F LEONARD A. PIASECZNY **END F.A.P. NO. 0533(001) STATE PROJECT NO. 12-95** APPROX. SLOPE LIMITS (TYP.) **ROUTE 533 - STA. 26+00** SUBJECT TO AN EASEMENT FOR DAM REPAIR IN FAVOR OF LEONARD A. PIASECZNY LIMIT OF CONSTRUCTION **BOX MOUNTAIN ROAD - STA. 6+00** STATE OF CONNECTICUT 12-95 JED **BOLTON** SAFETY IMPROVEMENTS ON ROUTE 533 AT BOX MOUNTAIN ROAD

OFFICE OF ENGINEERING

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SHEET NO. Plotted Date: 1/14/2015

REVISION DESCRIPTION

REV. DATE

SCALE IN FEET

SCALE 1"=40'

DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0012_0095_IGP-02.dgn

DRAWING NO.

IGP-02

Appendix D – Stormwater Monitoring Report Form



Connecticut Department of Energy & Environmental Protection

Bureau of Materials Management & Compliance Assurance Water Permitting & Enforcement Division

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, issued 8/21/13, effective 10/1/13 **Stormwater Monitoring Report**

SITE INFORMATION

Permittee:				
Mailing Address:				
			:Fax: _	
Contact Person:		Tit	le:	_
Site Name:				_
Receiving Water (nam	ne, basin):			
Stormwater Permit No	o. GSN			
SAMPLING INFORM	ATION (<mark>Submit a separa</mark>	ate form for each outf	all)	
Outfall Designation: _		Date/Time C	collected:	
Outfall Location(s) (lat	t/lon or map link):			
Person Collecting Sar	mple:			_
Storm Magnitude (incl	hes):	Storr	m Duration (hours):	
Size of Disturbed Area	a at any time:			
MONITORING RESU				
Sample #	Parameter	Method	Results (units)	Laboratory (if applicable)
1	Turbidity			
2	Turbidity			
3 4	Turbidity			
<u> </u>	Turbidity t if more than 4 samples wer	a taken for this outfall)	1 A	
STATEMENT OF AC certify that the data report the Discharge of Store	KNOWLEDGMENT ported on this document were	e prepared under my dire	Avg = ction or supervision in accordation Activities. The information	
Authorized Official:				
Signature:		Date:		

HARTFORD, CT 06106-5127 ATTN: NEAL WILLIAMS

Appendix E – 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 r	egistrant(s) as indicat	ed on the registration certific	ate:	
	Registrant:				
3.	Site Address:				
	City/Town:		State:	Zip Code:	
4.	Date all storm drainage	structures were clear	ned of construction sediment		
ĺ	Date of Completion of C	Construction:			
	Date of Last Inspection the general permit):	(must be at least thre	e months after final stabiliza	tion pursuant to Section 6(b)(6)(D)	of
5.	Check the post-constru	ction activities at the	site (check all that apply):		
	☐ Industrial	Residential	☐ Commercial	☐ Capped Landfill	
	Other (describe):				
Part	II: Certification				
"I ha ther obta belia crim 157	ave personally examined eto, and I certify that, bas ining the information, the ef. I understand that a fal inal offense, in accordant of the Connecticut Gen	sed on reasonable investible submitted informationales statement made ince with Section 22a-6	estigation, including my inqu n is true, accurate and comp this document or its attachn	his document and all attachments iry of those individuals responsible f lete to the best of my knowledge ar nents may be punishable as a Statutes, pursuant to Section 53a- oplicable statute."	
"I ha ther obta belia crim 157	ave personally examined eto, and I certify that, bas lining the information, the ef. I understand that a fal linal offense, in accordan	sed on reasonable investible submitted informationales statement made ince with Section 22a-6	estigation, including my inquin is true, accurate and comp ithis document or its attachn of the Connecticut General	iry of those individuals responsible f lete to the best of my knowledge ar nents may be punishable as a Statutes, pursuant to Section 53a-	
"I ha ther obta belia crim 1571	ave personally examined eto, and I certify that, bas ining the information, the ef. I understand that a fal inal offense, in accordant of the Connecticut Gen	sed on reasonable investible submitted informationalse statement made in the section 22a-6 peral Statutes, and in a	estigation, including my inquin is true, accurate and composite this document or its attachm of the Connecticut General accordance with any other appears	iry of those individuals responsible f lete to the best of my knowledge ar nents may be punishable as a Statutes, pursuant to Section 53a-	

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