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Kathleen M. Shanley Manager – Transmission Siting

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June 26, 2019

Ms. Melanie Bachman, Executive Director Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

Re: Docket No. 461A: Greenwich Substation and Line Project

Development and Management Plan Greenwich Substation Construction

Submission of Information Regarding Temporary Detention Basin

Dear Ms. Bachman:

As recommended by the Connecticut Siting Council (Council) in its March 29, 2019 letter approving the above-referenced Development and Management (D&M) Plan, the Connecticut Light and Power Company doing business as Eversource Energy (Eversource) hereby provides to the Council the attached two drawings that illustrate the location of and details regarding the temporary detention basin that will be situated on the Greenwich Substation property during the construction of the facility. The detention basin, which is referenced in Section E.2.1 (page 28) of the D&M Plan, will be used for temporary stormwater management during the substation construction.

Enclosed please find this original and two copies of this requested information. Should you have any questions regarding this information, please do not hesitate to contact me at via e-mail at <a href="mailto:kathleen.shanley@eversource.com">kathleen.shanley@eversource.com</a> or telephone at (860) 728-4527.

Sincerely,

Kathleen M. Shanley

Attachments: D&M Plan Drawings 15712-11005 PG1 and 15712-11005 PG 2 (dated 4/8/2019)

/ UP #65697 W/ RISERS RAILROAD AYENUE 8' HIGH SECURITY FENCE AND GATE GRASS CONC. S/W -∕E(B) — EXISTING BUILDING
DEMOLITION UNDER SEPARATE
DEVELOPMENT & MANAGEMENT COVER
VOLUME 1-PART 2A CONC. S/W FORMER BUILDING SILT SOCK (TYP) TO BE INSTALLED AFTER BUILDING IS DEMOLISHED AND —
MAINTAINED DURING CONSTRUCTION (SEE DWG 11005 PG2) \_\_\_\_ TEMPORARY DETENTION BASIN SEE DETAIL ON DWG 11005 PG 2

### PROJECT DESCRIPTION

- 1.1 THE GREENWICH NEW 115-KILOVOLT (KV) ELECTRICAL SUBSTATION IS TO BE CONSTRUCTED ON COMMERCIALLY-ZONED PROPERTY AT 290 RAILROAD AVENUE AT THE INTERSECTION WITH FIELD POINT ROAD IN GREENWICH, CT. THE PROPERTY IS IDENTIFIED BY THE GREENWICH ASSESSOR'S OFFICE ON MAP 01 AS LOT 2389/S, AND IS LOCATED WITHIN A GENERAL BUSINESS ZONE. TWO POWER TRANSFORMERS, SWITCHGEAR, CONTROL ENCLOSURE AND THE BALANCE OF ELECTRICAL EQUIPMENT ARE LOCATED IN THE SUBSTATION YARD. THE POWER TRANSFORMERS WILL BE SURROUNDED BY THE CONCRETE CONTAINMENT AND SEPARATED BY FIRE WALLS.
- 1.2 THE TOTAL AREA OF THE PROJECT SITE IS 0.81 ACRES. TO ACCOMMODATE THE NEW SUBSTATION, THE EXISTING COMMERCIAL BUILDING CURRENTLY OCCUPYING APPROXIMATELY 45% OF THE SITE AREA WILL BE REMOVED AS PART OF THE PROJECT. THE REMAINDER OF THE SITE IS FULLY DEVELOPED AND COVERED WITH IMPERVIOUS SURFACES. THE SITE IS ESSENTIALLY LEVEL WITH A GENTLE SLOPE TO A SINGLE CATCH BASIN LOCATED NEAR ITS WESTERN BORDER. THE SITE IS LOCATED WITHIN THE SOUTHWEST COAST MAJOR DRAINAGE BASIN. NO TIDAL OR FRESH WATER WETLANDS/WATERCOURSES OR COASTAL RESOURCES ARE LOCATED ON THE SITE ACCORDING TO THE SUMMARIES OF THE ENVIRONMENTAL CONDITIONS PROVIDED WITH THE MUNICIPAL CONSULTATION FILING (MCF) THAT WAS SUBMITTED TO THE TOWN OF GREENWICH FEBRUARY 6, 2015. IN ADDITION, THE SITE IS NOT LOCATED WITHIN EITHER THE 100—YEAR OR 500—YEAR FLOOD ZONES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY ("FEMA") OR WITHIN FLOOD SURGE LIMITS. APPROXIMATELY 0.025 ACRE PORTION OF THE SITE IS PHYSICALLY LOCATED WITHIN THE COASTAL BOUNDARY.

### ADJACENT PROPERTY

2. THE PROJECT PROPERTY IS IRREGULARLY SHAPED. THE SITE HAS FRONTAGE ON RAIROAD AVENUE TO THE NORTH AND FIELD POINT ROAD ON THE WEST. THE SITE BORDERS COMMERCIAL PROPERTIES TO THE SOUTH AND EAST.

### GENERAL REQUIREMENTS

### 3.1 NOT USED

- 3.2. THE CUMULATIVE POST-PEAK DEVELOPMENT RUN-OFF RATES FROM THE SITE SHALL BE MAINTAINED OR REDUCED FROM THE PRE-DEVELOPMENT RUN-OFF RATES. TO MINIMIZE THE IMPERVIOUS AREAS THE PAVED AREAS SHALL BE KEPT TO A MINIMUM.
- 3.3 THE GENERAL CONTRACTOR IS A RESPONSIBLE PARTY FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. THE RESPONSIBILITY INCLUDES THE MAINTENANCE AND INSTALLATION OF CONTROL MEASURES AND INFORMING ALL PARTIES OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN. EROSION CONTROL MEASURES SHALL BE CHECKED AS REQUIRED AND AFTER EVERY STORM BY THE ON—SITE CONSTRUCTION MANAGER. ALL ITEMS IDENTIFIED REQUIRING MAINTENANCE/REPLACEMENT SHALL BE COMPLETED IMMEDIATELY.
- 3.4 EXISTING VEGETATION OUTSIDE NEW PERIMETER WALL SHALL BE PRESERVED BY USING TEMPORARY SEEDING AND MULCHING TO PREVENT AND MINIMIZE EROSION. EXISTING TREES AT THE SOUTH BOUNDARY OF THE PROPERTY SHALL BE PROTECTED.
- 3.5 TO REDUCE EROSION HAZARDS, CONSTRUCTION SHALL BE PHASED TO MINIMIZE LAND DISTURBANCE AT ANY GIVEN TIME. WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR HAVE TEMPORARILY BEEN SUSPENDED FOR MORE THAN SEVEN DAYS, SOIL STABILIZATION MUST BE IMPLEMENTED WITHIN THREE DAYS.
- 3.6 AREAS WHICH REMAIN INACTIVE FOR AT LEAST THIRTY DAYS SHALL. RECEIVE TEMPORARY SEEDING IN ACCORDANCE WITH THE GUIDELINES.
- 3.7 THE CONTRACTOR MUST INSTALL ANY ADDITIONAL TEMPORARY OR PERMANENT MEASURES NECESSARY TO CONTROL EROSION/SEDIMENTATION ON— AND OFF—SITE DEPENDING ON WEATHER CONDITIONS AND WORK SEQUENCE.
- 3.8 NOT USE
- 3.9 CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO DEBRIS, LITTER, OR OTHER MATERIALS ARE DISCHARGED IN THE WATERS OF THE STATE OF CONNECTICUT.

SOIL EROSION AND SEDIMENT CONTROL DEVICES & MEASURES

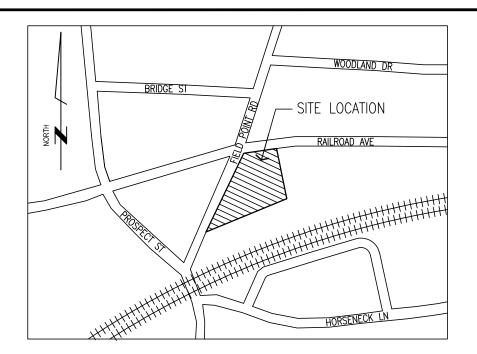
- 4.1 THE SOIL EROSION AND SEDIMENT CONTROL DEVICES TO BE IMPLEMENTED AS PART OF THE SITE DEVELOPMENT SHALL BE INSTALLED AS INDICATED ON THE DRAWING 15712-11005PG2 AND/OR DESCRIBED BELOW. FOR FURTHER REFERENCE SEE THE STATE OF CONNECTICUT 2002 GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (THE GUIDELINES).
- 4.2 ORGANIC MULCHES (HAY OR STRAW), OR NETTING AND MATS ARE TO BE USED DURING CONSTRUCTION TO PREVENT EROSION BY PROTECTING THE EXPOSED SOIL, AND TO PROMOTE THE GROWTH OF VEGETATION. ORGANIC MULCH MATERIALS AND APPLICATION RATES SHALL BE IN ACCORDANCE WITH FIGURE 7-1 OF THE GUIDELINES.
- 4.3 STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING USING A TRACTOR-DRAWN MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, NETTING OR OTHER MEANS OF ANCHORING ALLOWED BY THE GUIDELINES. MULCHES MUST BE INSPECTED PERIODICALLY AND, IN PARTICULAR, AFTER RAINSTORMS, AND RE-APPLIED IMMEDIATELY IF EROSION IS OBSERVED.

### .4 NOT USED

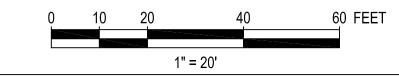
4.5 TEMPORARY AND PERMANENT VEGETATIVE COVERS SHALL BE INSTALLED TO STABILIZE SOIL AND REDUCE DAMAGE FROM SEDIMENT DEPOSITS, WIND AND/OR RUNOFF EROSION. VEGETATIVE COVERS SHALL BE INSTALLED ON ALL DISTURBED AREAS NOT PROTECTED BY OTHER EROSION CONTROL MEASURES AND ARE NOT INTENDED FOR PRIMARY CONSTRUCTION.

### <u>LEGEND</u>

SILT SOC



290 RAILROAD AVENUE KEY MAP GREENWICH, CONNECTICUT



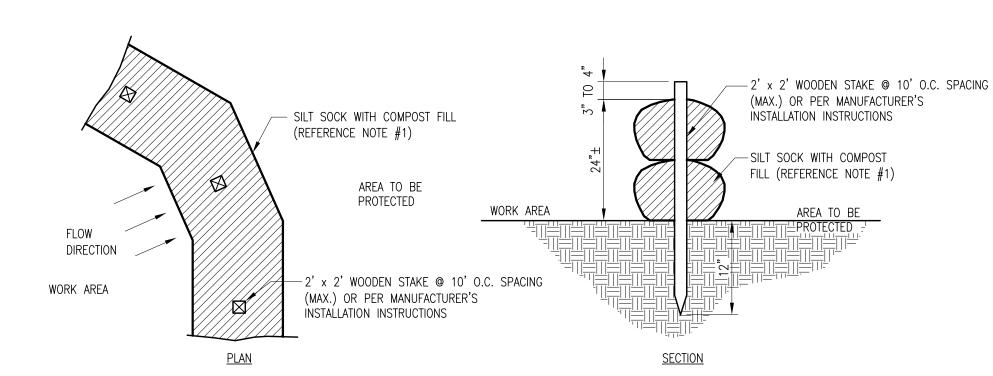
D&M PLAN SUBMITTAL 04/08/2019

REVISIONS DURING CONSTRUCTION



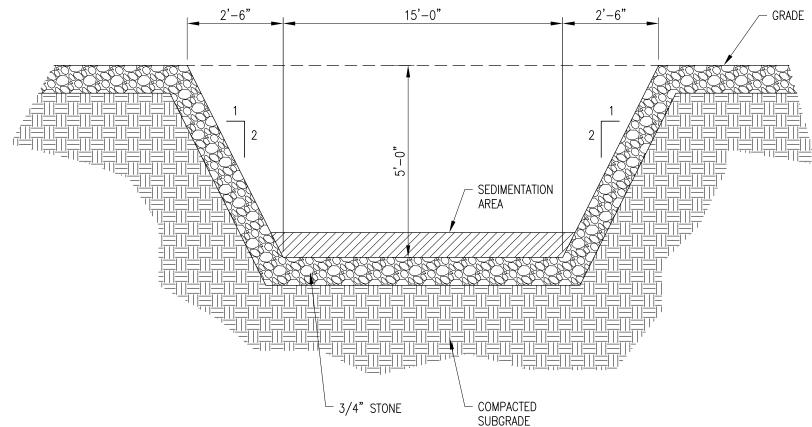
GREENWICH 28F
SOIL EROSION & SEDIMENT CONTROL PLAN & NARRATIVE
CIVIL PLAN & DETAILS

GREENWICH, CT										
BY	PCS (F	PEI)	CHKD	TK (PEI)	/	APP	VR (	(PEI)	APP	
DATE	-		DATE	_	I	DATE	-	_	DATE _	-
H-SCALE	1"	'=20'	SIZE	D	1	FIELD BOOK	& PA	GES		
V-SCALE	1"	'=20'	V.S.		f	R.E. DWG				
R.E. PRO	I. NUMBER				ı	DWG NO.		15712	-11005	PG 1



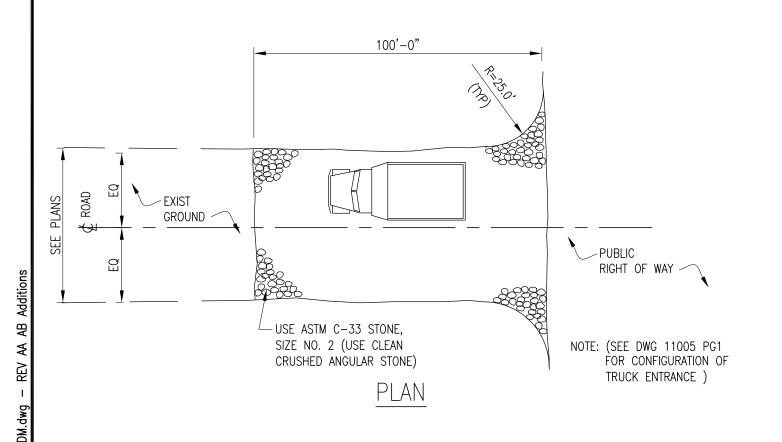
# SILT SOCK NOTES:

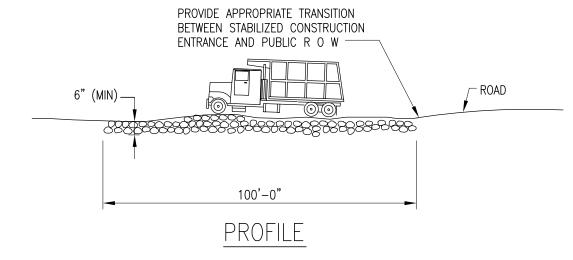
- 1. SILT SOCK SHALL BE BY FILTREXX SILTSOXX OR APPROVED EQUAL BY EVERSOURCE.
- 2. THE SILT SOCK SHALL BE PLACED AT LOCATIONS INDICATED ON PLANS ON DWG 11005 PG 1.
- 3. THE CONTRACTOR SHALL MAINTAIN THE SILT SOCK IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 4. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE SILT SOCK WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE DEVICE OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.



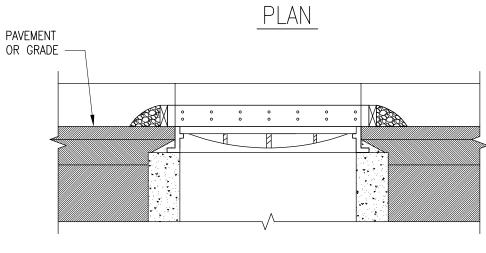
DETAIL 2

# SILT SOCK DETAIL DETAIL 1





STABILIZED CONSTRUCTION ENTRANCE AND TIRE WASH DETAIL 3



SECTION A-A STORM SEWER INLET PROTECTION

# 1. INLET TO BE "BOXED" IN WITH

- 2X4'S STOOD ON EDGE. 2. 2 ROWS OF 1/2" HOLES TO BE
- DRILLED IN BOARDS, 6" O.C.
- 3. 3/4" STONE TO BE PILED AROUND "BOX" TO FILTER SEDIMENT

DRILLED 2X4

# STORM DRAINAGE SYSTEM MAINTENANCE

DRAINAGE OUTLETS.

TURF REINFORCEMENT BLANKET OR APPROVED EQUAL.

7.1 STORM DRAINAGE FEATURES SHALL BE INSPECTED ON AN ANNUAL BASIS. ANY FLOATABLES, TRASH, DEBRIS OR SEDIMENT BUILD-UP SHALL BE REMOVED BY A LICENSED CONTRACTOR. GRASS-LINED SWALES IF CONSTRUCTED WILL BE MOWED.

TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES

5.3 SILT SOCK SHALL BE INSTALLED AND MAINTAINED UNTIL PROTECTED AREA IS

5.4 DUST CONTROL SHALL BE USED TO PREVENT BLOWING AND MOVEMENT OF DUST

SITE ACCESS ONTO FIELD POINT ROAD AND RAILROAD AVENUE.

MEASURES DURING CONSTRUCTION:

DISCHARGE POINTS.

BEEN STABILIZED.

MEASURES:

5.9 SEQUENCE OF INSTALLATION

5.1 THE FOLLOWING ARE PLANNED AS TEMPORARY EROSION/ SEDIMENTATION CONTROL

5.2 A CRUSHED STONE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE

RE-VEGETATED OR STABILIZED. SILT SOCK SHALL BE INSPECTED IMMEDIATELY AFTER

EACH RAINFALL GREATER THAN 0.1 INCH AND AT LEAST DAILY DURING PROLONGED

FROM EXPOSED SOIL SURFACES AND REDUCE THE PRESENCE OF DUST WHICH MAY

CAUSE OFF-SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE, AND PLANT

CONTRACTOR SHALL USE MECHANICAL SWEEPERS ON PAVED AREAS AND UTILIZE FINE

LIFE. THE NEED FOR DUST CONTROL WILL BE MINIMIZED BY REDUCING AREA OF

WATER SPRAYS NEAR SOURCES OF DUST. THE EXPOSED SOIL AREAS SHALL BE PERIODICALLY MOISTENED. SPRAY-ON ADHESIVES DILUTED IN WATER MAY BE USED.

5.5 TEMPORARY SOIL STOCKPILES SHALL BE PROTECTED BY A SEDIMENT BARRIER. SIDE

5.6 TEMPORARY VEGETATIVE COVERS SHALL BE INSTALLED ON ALL DISTURBED AREAS NOT INTENDED FOR PRIMARY CONSTRUCTION AND HAVING THE POTENTIAL TO PRODUCE SEDIMENT AND CAUSE ON- AND OFF-SITE DAMAGES. SUCH AREAS SHALL BE COVERED WITH TOPSOIL AND SEEDED PER FIGURE 8-1 OF THE GUIDELINES. FOR ADDITIONAL SEEDING REQUIREMENTS REFER TO CHAPTER 6 OF THE GUIDELINES.

5.7 STONE CHECK DAMS SHALL BE INSTALLED AT ANY EVIDENT CONCENTRATED FLOW

5.8 STORM DRAIN CATCH BASIN INLET PROTECTION SHALL BE PROVIDED THROUGH THE

A. FIELD STAKEOUT THE LIMITS OF ALL CONSTRUCTION ACTIVITIES.

D. INSTALL SILT SOCK AROUND BOUNDARY OF THE CONSTRUCTION AREA.

ALL PERMANENT EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT

OF SOIL TESTING OR AS RECOMMENDED BY THE GUIDELINES.

ACCORDANCE WITH THE RECOMMENDATIONS OF THE GUIDELINES, INCLUDING THE FOLLOWING

6.1 PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL DISTURBED/EXPOSED AREAS THAT ARE NOT SUBJECT TO OTHER RESTORATION, SUCH AS PAVING, RIPRAP,

ETC. INSTALLATION AND MAINTENANCE REQUIREMENTS OF THE GUIDELINES SHALL BE

FOLLOWED. EXPOSED AREAS SHALL BE LOAMED, LIMED, FERTILIZED, AND SEEDED.

LIMESTONE AND FERTILIZER SHALL BE APPLIED IN ACCORDANCE WITH THE RESULTS

6.2 ALL PERMANENT SEEDING SHALL BE DONE IN THE SPRING OR LATE SUMMER (BEFORE

FIGURES 8-2 OR 8-3 OF THE GUIDELINES OR AS RECOMMENDED BY THE SOIL

PLANS AND IN CRITICAL AREAS. MULCH SHALL BE APPLIED AND ANCHORED AS

6.3 THE RIPRAP APRONS AND PLUNGE POOLS SHALL BE CONSTRUCTED AND STABILIZED WHERE SHOWN ON THE CONSTRUCTION DRAWINGS AND AT THE PIPE OUTLETS PRIOR TO DIRECTING RUNOFF TO EITHER STORMWATER RENOVATION AREA AND AT ALL STORM

OCTOBER 1). ANY AREAS TO BE SEEDED OUTSIDE OF THIS TIME FRAME SHALL BE COVERED WITH AN EROSION CONTROL BLANKET TO STABILIZE THE SOIL UNTIL GROWTH CAN BE ESTABLISHED. SEEDING MIXTURES SHALL BE SELECTED IN ACCORDANCE WITH

CONSERVATION SERVICE. HYDROSEEDING SHALL BE USED WHERE INDICATED ON THE

RECOMMENDED UNDER "EROSION AND SEDIMENT CONTROL DEVICES" ABOVE. SLOPES

STEEPER THAN 3:1 SHALL RECEIVE NORTH AMERICAN GREEN S75 OR S150 STRAW

BE SWEPT FROM THE EXISTING TOWN ROADS.

PERMANENT EROSION CONTROL MEASURES

E. CLEAR ALL VEGETATION FROM THE CONSTRUCTION AREA.

USE OF SILT SOCK AROUND THE CATCH BASINS AS INDICATED ON DRAWINGS. THE

BARRIERS SHALL ONLY BE REMOVED WHEN THE TRIBUTARY DRAINAGE AREA HAS

B. INSTALL ANTI-TRACKING PAD AT CONSTRUCTION ENTRANCE AS SHOWN ON THE

C. INSTALL SILT SOCK BARRIERS AS NECESSARY TO CONTROL DRAINAGE ALONG THE ENTRY DRIVE. AT THE END OF EACH WORKING DAY, ANY ACCUMULATED SILT SHALL

STABILIZED BY TEMPORARY SEEDING OR COVERING WITH MULCH.

SLOPES OF THE STOCKPILES SHALL NOT EXCEED 2:1. THE STOCKPILES SHALL BE

LAND DISTURBANCE AT ANY ONE TIME, MAINTAINING AS MUCH VEGETATION AS

PRACTICABLE, USE OF MULCHING AND TEMPORARY VEGETATIVE COVER. THE

RAINFALL. REFER TO CHAPTER 7 OF THE "GUIDELINES" FOR ADDITIONAL MAINTENANCE

7.2 THE ON-SITE STORM DRAINAGE FEATURES MUST BE MAINTAINED IN GOOD WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THESE PLANS.

# D&M PLAN SUBMITTAL 04/08/2019

REVISIONS DURING CONSTRUCTION

**EVERS\$\rightarrow\$URCE ENERGY** 

**GREENWICH 28F** SOIL EROSION & SEDIMENT CONTROL DETS & NARRATIVE

CIVIL PLAN & DETAILS

	GREENWICH, CT								
BY	PCS (PEI)	CHKD	TK (PEI)	APP VR (PEI)	APP				
DATE	_	DATE	_	DATE	DATE				
H-SCALE	N.T.S.	SIZE	D	FIELD BOOK & PAGES					
V-SCALE	N.T.S.	V.S.		R.E. DWG					
R.E. PROJ.	NUMBER			DWG NO. 157	712-11005 PG				

# SUBGRADE TYPICAL DETENTION BASIN DETAIL

DRILLED 2X4 -DRILLED 2X4 DRILLED 2X4 DRILLED 2X4 DRILLED 2X4 3/4" STONE -OVERFLOW WEIR