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BOROUGH OF NAUGATUCK, CONNECTICUT NORTH MAIN STREET SIPHON REPAIR AT FULLING MILL BROOK MARCH 2015



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PROJECT LOCATION



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	SHEET INDEX
О.	SHEET TITLE
	COVER SHEET
	GENERAL NOTES AND DETAILS
	SITE PLAN
	EROSION AND SEDIMENTATION CONTROL PLAN
	STRUCTURAL - GENERAL PLAN
	STRUCTURAL - NORTH WALL DETAILS
	STRUCTURAL - SOUTH WALL DETAILS
	STRUCTURAL - MISCELLANEOUS DETAILS

TRAFFIC NOTES

1.THE CONTRACTOR SHALL SUBMIT A MAINTENANCE & PROTECTION OF TRAFFIC PLAN TO TOWN 1.BASE MAPPING BASED ON FIELD SURVEY PERFORMED ON 8/21/2014 BY MARTINEZ COUCH AND AND CTDOT FOR APPROVAL AT LEAST 2 WEEKS PRIOR TO START OF WORK. ASSOCIATES. 2. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE LOCATIONS SHOWN ON THE DRAWINGS AND FOR THE PROTECTION OF SERVICES DURING CONSTRUCTION. IN THE CASE OF DAMAGE, REPAIRS AND OR REPLACEMENT SHALL BE DONE BY THE CONTROLLING UTILITY CO. AT THE CONTRACTORS EXPENSE. 3.CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 A MINIMUM OF FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION TO LOCATE UNDERGROUND UTILITIES IN THE FIELD AND NOTIFY UTILITIES OF CONSTRUCTION. 4.THE CONTRACTOR SHALL FURNISH ALL PROTECTIVE DEVICES AS REQUIRED BY THE UTILITIES COMPANY AT NO ADDITIONAL EXPENSE TO THE CONTRACT. 6.AT THE BEGINNING AND END OF EACH WORKDAY, THE CONTRACTOR SHALL NOTIFY THE TOWN 5.ALL EXISTING UTILITIES AND STRUCTURES REMOVED BY THE CONTRACTOR SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE MADE AVAILABLE TO THE OWNER. 6.PUBLIC PROPERTY OR PRIVATE PROPERTY SUCH AS MAIL BOXES, LIGHT POLES, SIDEWALKS, SHRUBS, FENCES, STREET SIGNS ETC. DAMAGED OR DISTURBED BY THE CONTRACTORS OPERATIONS SHALL BE REPLACED TO LIKE CONDITION AT THE CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR RESETTING / RELOCATING MAILBOXES DUE TO NEW EDGE OF ROADWAY AND SHALL BE INCLUDED IN THE GENERAL COST OF THE CONTRACT. 7.ANY LAWN AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE LOAMED AND SEEDED. FINAL LIMITS OF FILL OR CUT AND LIMITS OF LOAMING AND SEEDING SHALL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER. 8.EACH LAYER OF MATERIAL USED FOR BACK FILL, EMBANKMENT, ROADBED OR FOUNDATIONS FOR STRUCTURES SHALL BE COMPACTED UNTIL THE DRY DENSITY OF EACH LAYER IS AT LEAST 95 PERCENT OF THE DRY DENSITY ACHIEVED BY THE AASHTO TEST T-180, METHOD D FOR THAT SOIL. 9.ALL MATERIAL DEPTHS NOTED ON THE PLANS REFER TO DEPTH AFTER COMPACTION, UNLESS NOTED OTHERWISE. 10.THE OWNER RESERVES THE RIGHT TO ELIMINATE ANY PORTION OF THE CONTRACT AT ANY TIME. FINAL PAYMENT WILL BE MADE BASED UPON ACTUAL QUANTITIES AT THE BID UNIT PRICE. NO CLAIM WILL BE ALLOWED FOR ADDITIONAL COMPENSATION OR ANTICIPATED PROFIT ON ITEMS THAT HAVE BEEN DECREASED OR ELIMINATED. 11. EXISTING CHAIN LINK FENCE TO BE REMOVED BY CONTRACTOR, AS REQUIRED, DURING CONSTRUCTION. FENCE SHALL BE REPLACED AND/OR RESET TO PRE-EXISTING CONDITIONS. 12. PORTABLE SEDIMENTATION TANK SHALL NOT BE PLACED ON BRIDGE. LINES TO AND FROM PORTABLE SEDIMENTATION TANK SHALL BE KEPT OUT OF STREAM CHANNEL. ALTERNATE METHODS OF SEDIMENTATION WILL BE CONSIDERED. 13. OVERHEAD UTILITY LINES TO BE MAINTAINED OR RELOCATED AS NECESSARY DURING AND PRIOR TO CONSTRUCTION. COORDINATION WITH APPLICABLE UTILITY PROVIDERS SHALL BE PERFORMED BY CONTRACTOR. 14. CONTRACTOR SHALL MAINTAIN ALL SANITARY FLOWS THROUGHOUT CONSTRUCTION INCLUDING TEMPORARY SUPPORT OF MANHOLE SIPHON STRUCTURE AT INLET.

2, DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES. 3.ROADWAY SHALL REMAIN OPEN TO THROUGH TRAFFIC AT ALL TIMES. PROVISIONS MUST BE MADE TO PROVIDE FOR ALTERNATING ONE-WAY TRAFFIC THROUGHOUT THE WORK DAY AS PER THE SPECIAL PROVISIONS. 4.ALL TRAFFIC CONTROL AND DETOUR SIGNS SHALL BE INSTALLED PER SPECIAL PROVISIONS PRIOR TO START OF CONSTRUCTION. ADDITIONAL SIGNS SHALL BE INSTALLED IN THE WORK AREA AS PER THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. 5.ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO MUTCD STANDARDS AND CTDOT STANDARDS. COMMUNICATIONS CENTER AND CTDOT OF THE STATUS OF ACCESSIBILITY AND LANE CLOSURE. 7.FOR INSTALLATION, MAINTENANCE AND REMOVAL REQUIREMENTS, SEE CTDOT FORM 816 AND SPECIAL PROVISIONS. 8. IF SIDEWALK NEEDS TO BE CLOSED FOR TEMPORARY SEDIMENTATION TANK, APPROPRIATE SIGNAGE SHALL BE INSTALLED DIRECTING PEDESTRIANS TO AN ALTERNATE ROUTE. 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS FROM THE TOWN AND CTDOT. **IN-STREAM NOTES:** 1. ALL IN-STREAM WORK SHALL BE CONFINED (BY TEMPORARY DIVERSION MEASURES) PLACEMENT OF TEMPORARY DIVERSION MEASURES (UNCONFINED) SHALL BE PERFORMED BETWEEN JULY 1 AND OCTOBER 1. 2. NO HEAVY EQUIPMENT SHALL BE ALLOWED IN THE UNCONFINED STREAM FOR THE DEMOLITION OF THE EXISTING WALLS, OR FOR THE PLACEMENT OF RIPRAP IN THE CHANNEL. 3. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING CHANNEL CONFIGURATION AND SHALL MAINTAIN LOW-FLOW CHANNEL LOCATION UPSTREAM AND DOWNSTREAM FROM WORK AREA. CONTRACTOR SHALL DOCUMENT EXISTING CONDITION PRIOR TO WORK THROUGH TOPOGRAPHIC AND рното SURVEY. 4. CONTRACTOR IS REQUIRED TO MAINTAIN TEMPORARY FLOW THROUGH CROSSING. IN THE CASE WHERE FLOW EXCEEDS HEIGHT OF SANDBAG DIVERSION, CONTRACTOR SHALL REMOVE TEMPORARY DIVERSION MEASURES AND DISCONTINUE WORK IN THE CHANNEL CONTRACTOR TO ENSURE STABILIZATION OF CHANNEL AT ALL TIMES. 5. ALL HAND EQUIPMENT AND MATERIALS SHALL BE REMOVED FROM ISOLATED IN-STREAM WORK

AREAS WHEN NOT IN USE AND SHALL BE STORED IN APPROVED UPLAND LOCATIONS.

6. STANDARD RIPRAP (D50 =15") TO BE BURIED IN EXCAVATED AREAS, AS DIRECTED BY ENGINEER, TO A DEPTH OF 36" BELOW GRADE TO PREVENT UNDERMINING OF WALLS.

7.ROUNDED STONE RIPRAP (D50=15") TO BE PLACED, AS DIRECTED BY ENGINEER, OVER EXPOSED SIPHON ENCASEMENT DURING FLOWING CONDITIONS AS SHOWN ON THE PLAN. STONES SHALL BE PLACED IN VORTEX ROCK WEIR FORMATION AS DIRECTED BY THE ENGINEER.

8. DEWATERING DISCHARGE PAD TO BE CONSTRUCTED OF STANDARD RIPRAP (D50=15"). DISCHARGE PAD TO LOCATED WITHIN OUTSIDE LIMITS OF SANDBAG DIVERSION AS SHOWN ON PLANS. DEWATERING DISCHARGE PAD TO BE REMOVED ONCE CONSTRUCTION IS COMPLETE.

9. SEE SHEET S-1 FOR CONSTRUCTION PHASING NOTES.

10. TOTAL DISTURBED STREAMBED AREAS ARE: NORTH WALL - 200± SQ. FT SOUTH WALL - 215+ SQ. FT

GENERAL NOTES:

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EROSION AND SEDIMENTATION CONTROL NOTES

1.ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE BOROUGH OF NAUGATUCK REGULATIONS AND THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

2.ALL CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLAN(S).

3.ALL CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE TOWN PRIOR TO COMMENCEMENT OF ANY WORK, INCLUDING PRE-CONSTRUCTION CLEARING AND GRUBBING.

4.ALL CONTROL MEASURES SHALL BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.

5.NO CONTROL MEASURES SHALL BE REMOVED WITHOUT APPROVAL FROM THE TOWN.

6.ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE TOWN OR ITS AUTHORIZED AGENT.

7.THE LIMITS OF CLEARING, GRADING AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN TOTALLY UNDISTURBED.

8.ANY CONTROL MEASURES RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT IMMEDIATELY REMOVED, AND ALL DAMAGED CONTROL MEASURES SHALL BE REMOVED AND REPLACED.

9.ALL CATCH BASINS LOCATED DOWN-GRADE OF THE SITE SHALL BE PROTECTED BY PLACING FILTER FABRIC BENEATH THE GRATE UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.

10.ALL NEW AND EXISTING CATCH BASINS LOCATED ON THE SITE SHALL BE PROTECTED BY STAKED HAYBALES AND BY PLACING FILTER FABRIC BENEATH THE GRATE UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.

11.ALL SEDIMENT SHALL BE IMMEDIATELY REMOVED FROM NEW AND EXISTING DRAINAGE STRUCTURES AND PIPING IMPACTED BY THE PROPOSED CONSTRUCTION.

12.SEDIMENT REMOVED FROM CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.

13. THE PLANTING SEASONS FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE TOWN. OUTSIDE OF THESE SPECIFIED DATES, AREAS WILL BE STABILIZED WITH HAYBALE CHECK DAMS, FILTER FABRIC, OR WOODCHIP MULCH AS REQUIRED TO CONTROL EROSION.

14.THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THAT NO DRAINAGE FROM TOWN ROADS ENTERS THE SITE DURING OR AFTER CONSTRUCTION.

15. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE LIFE OF THE CONTRACT. THE CONTRACTOR SHALL CONTROL DUST TO PREVENT A HAZARD TO TRAFFIC ON ADJACENT ROADWAYS.

16.TEMPORARY STOCKPILING OF CONSTRUCTION MATERIALS SHALL ONLY BE ALLOWED IN THE LOCATIONS SHOWN ON THE PLAN(S). STOCKPILE AREAS SHALL BE FULLY ENCLOSED BY SILT FENCE.

17.IF NO STOCKPILE AREA IS SHOWN, THE CONTRACTOR SHALL REMOVE MATERIALS FROM SITE IMMEDIATELY UPON EXCAVATION.

18.ALL GROUNDWATER EXTRACTED DURING DEWATERING OF EXCAVATIONS SHALL BE DIRECTED TO A TEMPORARY/PORTABLE SEDIMENTATION BASIN.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE TOWN OF ANY TRANSFER OF THIS RESPONSIBILITY.

20. THE EMERGENCY CONTACT AT THE TOWN OF NAUGATUCK IS JAMES STEWART, PUBLIC WORKS DIRECTOR, (203)720-7071.



COFFERDAM AND DEWATERING DETA N.T.S.

1.SANDBAG MATERIAL: SANDBAG MATERIAL SHALL BE POL POLYETHYLENE OR POLY AMIDE WOVEN FABRIC, MIN. UNIT 0.028 LB/SF, MULLEN BURST STRENGTH EXCEEDING 300 F ULTRAVIOLET STABILITY EXCEEDING 70%. USE OF BURLAP BE PERMITTED.

2.SANDBAG SIZE: EACH SANDBAG SHALL HAVE A LENGTH WIDTH OF 16-18 IN. AND WEIGHT OF 90-120 LB.

3.GRADE OF SAND: ALL SANDBAG MATERIAL SHALL BE CC FREE FROM DELETERIOUS MATERIAL.



SILT FENCE WITH HAYBALE

N.T.S.

NOTES: 1. FABRIC TO BE UV RESISTANT POLYPROPYLENE WITH A MINIMUM WEIGHT O 2. FABRIC TO BE ATTACHED TO STAKES WITH STAPLES. 3. USE SILT FENCE AND HAYBALES WHERE INDICATED OR AS DIRECTED BY T 4. WHERE HAYBALES ARE USED, TRENCH A MINIMUM OF 6" INTO EXISTING GR 5. A MINIMUM OF (2) WOODEN OR METAL STAKES PER HAYBALE. DRIVE STAKE

A MINIMUM OF 12" INTO GROUND.

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SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION - FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2012, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL.

f'c = 3,000 PSIfy = 60,000 PSI

FOUNDATION PRESSURES: FOUNDATION PRESSURES FOR THE NEW GRAVITY WALLS ARE SIMILAR TO THE PRESSURES OF THE EXISTING STONE GRAVITY WALLS. NO NET INCREASE IS ANTICIPATED.

DIMENSIONS: WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE

NOTES:

1. REMOVE CONCRETE SLOPE PROTECTION SLAB TO LIMITS AS SHOWN OR AS NECESSARY IN ORDER TO CONSTRUCT THE NEW GRAVITY WALLS. REPLACE CONCRETE SLOPE PROTECTION SLAB. SEE DETAIL ON S-4. (TYP.) 2. RIPRAP SHALL BE PLACED IN

ACCORDANCE WITH IN-STREAM NOTES 6 AND 7 FOUND ON SHEET C-1. ALL RIPRAP PLACED SHALL BE WRAPPED WITH GEOTEXTILE MATERIAL AS SHOWN ON SHEET S-4, TYPICAL GRAVITY WALL EXCAVATION SECTION.

3. COFFERDAM AND DEWATERING MEASURES SHALL MEET IN-STREAM NOTES CRITERIA FOUND ON SHEET C-1 AND SPECIFICATIONS FOR ITEM ,0204001.

EDGE OF CONC. SLOPE PROTECTION

EXISTNG 5'x7' CONCRETE SIPHON STRUCTURE. THE CONTRACTOR IS REQUIRED TO MAINTAIN, PROTECT AND PROVIDE TEMPORARY SUPPORT FOR THE SIPHON STRUCTURE.

MEASURES.

1. REPEAT STEPS 2 - 7 AS NOTED ABOVE FOR THE REPLACEMENT OF

2. REMOVE THE TEMPORARY WATER DIVERSION AND EROSION CONTROL



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- TEMPORARY EARTH RETAINING SYSTEM (TYP.) - FLOWABLE FILL AS REQUIRED (SEE NOTE 6 ON SHEET S-2)			
- PVC SLEEVE AROUND EXISTING SEWER SIPHON PIPE AND FITTINGS. PROVIDE LINKSEAL AT BOTH ENDS OF SLEEVE (TYP.)			
STONE			
			SCALE VERIFICATION THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING 0 1" IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY
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 TEMPORARY EARTH RETAINING SYSTEM