February 4, 2016

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7550186

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2015-CH-001

FEDERAL-AID PROJECT NO. FAP Nos: 3RD-PRTY(234), NHP-0114(023), STPG-HSIP(020)

Reconstruction of Two Mile Corner (Routes 138/114)

East Main Road from West Main Road to Bailey Brook
West Main Road from Smythe Street to Maplewood Road
Coddington Highway from West Main Road to Lake Erie Street

CITY/TOWN OF Middletown

COUNTY OF NEWPORT

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 3 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

A. Clarification

1. Pre-Bid Sign In Sheet

   The Pre-Bid Sign in Sheet is attached to this Addendum No. 3.

2. Utilities Contractor List

   On the Advertising CD under General Provisions bookmark, Item Code 105.2000; Adjustment and/or Relocation of Utilities provides the list of pre-approved construction companies by the respective utility companies. A National Grid - Electric approved sub-contractor list is attached to this Addendum No. 3.

3. Item Code 202.9901 Handling, Hauling, Stockpiling and Management of Contaminated Soils

   The Engineer referenced in this spec shall be Per Part 100 General Requirements and Covenants Section 101 of the Standard Specifications any reference to the Engineer refers to the Chief Engineer of RIDOT, acting directly through his or her duly authorized representative including the Resident Engineer and any authorized representative of the Resident Engineer.

4. Item Code 202.9901 Handling, Hauling, Stockpiling and Mangament of Contaminated Soils (Soil Testing)

   The Contractor shall be responsible for the soil characterization (testing) for soil to be disposed. The information provided in the Contract documents may provide the contractor enough information to get the soil pre-characterized without additional testing. Additional Information has been added to Item Code 202.9901 attached to this Addendum No. 3.

5. Item Code 202.9901 Handling, Hauling, Stockpiling, and Management of Contaminated Soils (Site Security)

   The Contractor shall secure the site to keep the Public away from contaminated material stockpiled on site. The Contractor shall provide a temporary fence securing contaminated stockpiles. Additional Information has been added to Item Code 202.9901 attached to this Addendum No. 3.

6. Item Code 701.9900 Water Modifications (Off Peak Hours)

   Off-Peak hours shall be considered hours outside the business operation hours of the business affected by the shutdown. Off-Peak hours shall be considered between 11 pm and 5 am (the next morning) for residential properties impacted by the shutdown. Additional information has been added to Item Code 701.9900 attached to this Addendum No. 3.

7. Item Code 701.9900 Water Modifications (Sawcutting)

   On Page JS-57, sawcutting is included in the basis of payment of the water pipe and service tubing. There will be no separate payment for sawcutting to install water line related items. Additional information has been added to Item Code 701.9900 attached to this Addendum No. 3.

8. Item Code 410.1000 Temporary Patching Material/Trenches

   Temporary pavement restoration following the installation of the water line related item shall be paid for under Item Code 410.1000 Temporary Patching Materials/Trenches.

9. Item Code 707.9901 - Adjust Water Meter

   The contractor shall adjust the cover of the water meter pit similar to a drainage manhole.

10. Item Code 701.9900 Water Modifications (Valve & Hydrant)

    All hydrants shall be Kennedy K81A "Guardian", Kennedy K81D "Guardian" or Mueller Super Centurion 200. All hydrants bodies are to be painted factory yellow. See JS Pages JS-45 and JS-46.

11. Item Codes 701.5406, 701.508, and 701.5412 (Push-on Joint Pipe)

    The Contractor may elect to use Push-on Joint Pipe if the Deflection Angle is less than or equal to 2.5 degrees with the approval of the engineer. Any Deflection Angle is greater than 2.5 degrees and all fittings shall be mechanical joint. Additional information has been added to Item Code 701.9900 attached to this Addendum No. 3.

12. Item Code 701.9900 Water Modifications (Water Details)

    Newport Water approved the use of the Providence Water Details. Additional Details and information have been added to the Item Code 701.9900 attached to this Addendum No. 3.

13. Item Code 701.9901 Replace Irrigation System Valve

    The Contractor may impact this irrigation valve during construction. The Contractor shall adjust the cover to grade or replace if damaged by the contractor's work or cannot be adjusted to grade.

14. Temporary Pavement - East Main Road

    The CS pages state "Contractor shall remove the existing concrete base on East Main Road in sections. Work shall include but not be limited to saw cutting, pavement removal, excavation, backfilling with gravel borrow, temporary pavement and temporary pavement markings. The width and length of work area shall be limited to the amount of work that can be completed in a single night within the time periods provided in the TMP." Note the Contractor shall backfill with gravel borrow and temporary pavement. The pavement cores indicate approximately 4 to 5 inches of asphalt over 8 inches of concrete base. The Contractor shall backfill with gravel borrow and place approximately 2 inches of temporary pavement.

B. Distribution of Quantities

1. Table of Contents - Distribution of Quantities

   Delete Pages Index 1 (R-2) through Index 7 (R-2) in their entirety and replace them with revised Pages Index 1 (R-3) through Index 7 (R-3) attached to this Addendum No. 2. The Table of Contents has been revised.

2. Item Code 701.9905 Sanitary Sewer Bypass

   Delete Page 144 (R-1) in its entirety and replace it with revised Page 144 (R-2) attached to this Addendum No. 3. Sanitary Sewer Bypass has been added.

3. Item Codes 202.0100 and 202.0700

   The Earthwork Summary has been added to the end of the Distribution of Quantities. Add new Earthwork Summary Pages 1-5 attached to this Addendum No. 3.

C. Drawings/Plans - Change/Addition

1. Typical Sections No. 3

   Delete Sheet 9 in its entirety and replace it with revised Sheet 9 (R-1) attached to this Addendum No. 3. The sheet has been revised.

2. General Plan No. 5

   Delete Sheet 15 in its entirety and replace it with revised Sheet 15 (R-1) attached to this Addendum No. 3. The sheet has been revised.

D. General Provisions Contract Specific

1. General Provisions Contract Specific Index

   Delete Page CS-i and replace with Page CS-i (R-1) attached to this Addendum No. 3. Appendix J - Boring Logs and Appendix K - Town of Middletown Sewer Map were added.

2. CS Pages Sequence of Construction

   Delete Page CS-10 in its entirety and place it with revised Page CS-10 (R-1) attached to this Addendum No. 3. The specification has been revised.

3. CS Pages Appendix J - Boring Logs

   Add Pages CS-333 through CS-351 to this Addendum No. 3. Appendix J has been added. See Page CS-266 for Boring Log Site Plan.

4. CS Pages Appendix K - Town of Middletown Sewer Map

   Add Pages CS-352 though CS-353 to this Addendum No. 3. Appendix K has been added.

E. Specification Change/Addition

1. Special Provision Index-

   Delete Page JS-ii (R-1) in its entirety and replace it with revised Page JS-ii (R-2) attached to this Addendum No. 3. Item Code 701.9905 Sanitary Sewer Bypass has been added.

2. Item Code 202.9901 Handling, Hauling, Stockpiling, and Management of Contanminated Soils

   Delete Pages JS-21, JS-22, and JS-25 in their entirety and replace it with revised Pages JS-21 (R-1), JS-22 (R-1), and JS-25 (R-1) attached to this Addendum No. 3. The specification has been revised.

3. Item Code 701.9900 Water Modifications

   Delete Pages JS-57 through JS-59 in their entirety and replace it with revised Pages JS-57 (R-1) through JS-59 (R-1) and add new Pages JS-67a and JS-67b attached to this Addendum No. 3. The specification has been revised.

4. Item Code 701.9905 Sanitary Sewer Bypass

   Add Pages JS-164 through JS-167 attached to his Addendum No. 3. Item Code 701.9905 has been added.

RI Department of Transportation
Chief Engineer

State of Rhode Island

Division of Purchases
One Capitol Hill
Providence, RI 02908

"NON-MANDATORY" PRE-BID CONFERENCE SIGN IN SHEET

BID NUMBER:	7550186
BID TITLE:	2015-CH-001 Reconstruction of Two Mile Corner
PRE-BID DATE AND TIME:	1/28/16 - 9:00 a.m.

Purchasing Representative:	Lisa Hill
Pre-bid START TIME: 9:00 a.m.	9:02
Pre-bid END TIME:	9:27

	COMPANY NAME	COMPANY REPRESENTATIVE	ADDRESS	CONTACT E-MAIL	CONTACT PHONE NUMBER	CONTACT FAX NUMBER	PROPOSAL SUBMITTED (For Purchasing Use Only)
1	JH LYNCH	Ernie Barry	50 Lynch Pl Cumberland RI	sales@jhlynch.com	401-265-C956		
2	VHB	Matt Lomas	1 Cedar St. Prov.	mlomas@vhb.com	401-457-2038		
3	VHB	Rick Rhodes	1 Cedar St, Prov	rrhodes@vhb.com	401-272-8100		
4	VHB	Jamie Pisano	1 Cedar St Prov.	jpisano@vhb.com	401-272-8100		
5	D'Ambra	Rob Lawton	200 Jefferson Blvd	RLawton@Dambra	737-1300		
6	PJ Keating	Mike D'Ambra	72 S. Main St. Acushnet, MA	MDAMBRA@PJKEATING.com	(978) 956-4993		
7	RIDOT	Anita Marshall	2 Capitol Hill Prov. RI	anita.marshall@dot.ri.gov	(401) 222-2023 x4044		
8	RIDOT	Nathan Shapiro	2 Capitol Hill	Nathan.Shapiro@dot.RI.gov	222-3260 x4410		
9	RIDOT	Jeffry Martins	" "	Jeffry.Martins@dot.ri.gov	x4508		
10	National Grid	Thomas Cipolbianco	280 Melrose St Providence RI	thomas.cipolbianco@nationalgrid.com	401-784-7245		
11	National Grid Gas	Jim Paulette	40 Sylvan Rd Waltham MA	jim.paulette@nationalgrid.com	401-465-8580		
12	Peter DeCosta ↔ Verizon		85 High St. Pawtucket RI	Peter.X.Decosta@verizon.com	508-544-6701		
13	~~Robin Walsh~~ RIDOT	Robin Walsh	Two Capitol Hill Prov. RI	robin.walsh@dot.ri.gov	401 265 0144		
14	Vin Palumbo ↔ RIDOT - Road		Two Capitol Hill Prov.	Vincent.palumbo@dot.ri.gov	222-2023 x4419		
15	RIDOT Utilities	Steven Barton	" "	Steven.Barton@dot.ri.gov	222 2023 x4095		
16	RIDOT Utility	RIDOT	" "	mazen.alsaba@dot.ri.gov	222-2-27 x4027		

** VENDOR: PLEASE SUBMIT A BUSINESS CARD IF AVAILABLE**

NATIONAL GRID - ELECTRIC APPROVED SUB-CONTRATOR LIST

Organization Name	Contact Name	Business Email Address	Phone #	Address
Feeney	Paul Guerin	pguerin@feeneybrothers.com	617-287-1004	103 Clayton Street Dorchester, MA 02122
McCourt	Steven Frick	mmccourt@mccourtconstruction.com	617-269-2330	60 K St., Suite 2 South Boston, MA 02127
J. H. Lynch & Sons, Inc	Susan Cullen	scullen@jhlynch.com	401-3334300	50 Lynch Place Cumberland, RI 02864
Bond Brothers	Andy Youngren	ayoungren@bondbrothers.com	617-571-6667	145 Spring Street Everett, MA 02149
Rosciti Construction	John Mazzeo	est@rosciti.com	401-351-6681	123 King Philip Street Johnston, RI 02919
Universal Construction Co.	Jospeh Piti	ucc@unicori.net	401-942-3119	16 Starr Street Johnston, RI 02919

Table of Contents - Distribution of Quantities

Project Name - Reconstruction of Two Mile Corner (Routes 138/114)
Estimate Name - TMC Addendum No. 3
R.I. Contract No. - 2015-CH-001
FAP Nos: 3RD-PRTY(234), NHP-0114(023), STPG-HSIP(020)

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S288	T20.9906	**TEMPORARY EPOXY RESIN PAVEMENT MARKING - HELMETED BICYCLIST SYMBOL WITH ARROW**	EACH			
		CODDINGTON HIGHWAY				
		STA. 300+53 LT		1.00	0021	02
		STA. 301+85 LT		1.00	0021	02
		Item T20.9906 Total:		**2.00**		
289	903.9902	**FENCE REPAIR - GWVTS**	LS			
		HIGH STREET/O'NEIL BOULEVARD				
		NORTHEAST CORNER OF GWVTS		1.00	0003	01
		Item 903.9902 Total:		**1.00**		
290	701.9905	**SANITARY SEWER BYPASS**	LS			
		EAST MAIN ROAD				
		SEWER REPLACEMENT		1.00	0003	01
		Item 701.9905 Total:		**1.00**		

Two Mile Corner
VHB Project #70511.01

Earthwork Summary

	CUT (cy)	FILL (cy)
West Main Road	1461	115
East Main Road	1949	80
Coddington Hwy	217	13
Ramp	101	16
TOTALS:	3728 cy	223 cy

WEST MAIN ROAD

STATION	CUT AREA (sf)	FILL AREA (sf)	CUT VOLUME (cf)	FILL VOLUME (cf)	CUT VOLUME (cy)	FILL VOLUME (cy)
106+00	5.97	0.00				
			1044.50	0.00	38.69	0.00
106+50	35.81	0.00				
			1769.25	0.00	65.53	0.00
107+00	34.96	0.00				
			1879.50	0.00	69.61	0.00
107+50	40.22	0.00				
			2156.25	0.00	79.86	0.00
108+00	46.03	0.00				
			1697.75	0.00	62.88	0.00
108+50	21.88	0.00				
			1549.25	0.00	57.38	0.00
109+00	40.09	0.00				
			2565.50	0.00	95.02	0.00
109+50	62.53	0.00				
			2136.25	0.00	79.12	0.00
110+00	22.92	0.00				
			1699.25	0.00	62.94	0.00
110+50	45.05	0.00				
			1733.25	687.50	64.19	25.46
111+00	24.28	27.50				
			1080.75	856.25	40.03	31.71
111+50	18.95	6.75				
			956.00	333.00	35.41	12.33
112+00	19.29	6.57				
			995.25	549.50	36.86	20.35
112+50	20.52	15.41				
			1612.50	395.25	59.72	14.64
113+00	43.98	0.40				
			2288.00	14.00	84.74	0.52
113+50	47.54	0.16				
			1655.75	4.00	61.32	0.15
114+00	18.69	0.00				
			1979.75	56.25	73.32	2.08
114+50	60.50	2.25				
			2864.75	56.25	106.10	2.08
115+00	54.09	0.00				
			1570.00	20.00	58.15	0.74
115+50	8.71	0.80				
			1010.75	49.50	37.44	1.83
116+00	31.72	1.18				
			1149.00	44.00	42.56	1.63
116+50	14.24	0.58				
			827.00	14.50	30.63	0.54
117+00	18.84	0.00				
			849.75	0.00	31.47	0.00
117+50	15.15	0.00				
			746.75	0.00	27.66	0.00
118+00	14.72	0.00				
			633.25	2.50	23.45	0.09
118+50	10.61	0.10				
			483.25	8.50	17.90	0.31
119+00	8.72	0.24				
			526.00	6.00	19.48	0.22
119+50	12.32	0.00				
				TOTAL	**1461.45**	**114.70**

EAST MAIN ROAD

STATION	CUT AREA (sf)	FILL AREA (sf)	CUT VOLUME (cf)	FILL VOLUME (cf)	CUT VOLUME (cy)	FILL VOLUME (cy)
200+50	34.26	5.70				
			476.63	437.00	17.65	16.19
201+00	3.87	29.26				
			269.25	918.75	9.97	34.03
201+50	6.90	7.49				
			1369.00	386.75	50.70	14.32
202+00	47.86	7.98				
			2341.75	284.50	86.73	10.54
202+50	45.81	3.40				
			2698.25	107.75	99.94	3.99
203+00	62.12	0.91				
			3509.75	22.75	129.99	0.84
203+50	78.27	0.00				
			3263.75	1.75	120.88	0.06
204+00	52.28	0.07				
			2343.75	1.75	86.81	0.06
204+50	41.47	0.00				
			2271.50	0.00	84.13	0.00
205+00	49.39	0.00				
			2354.25	0.00	87.19	0.00
205+50	44.78	0.00				
			2362.00	0.00	87.48	0.00
206+00	49.70	0.00				
			2257.50	0.00	83.61	0.00
206+50	40.60	0.00				
			1995.75	0.00	73.92	0.00
207+00	39.23	0.00				
			1935.25	0.00	71.68	0.00
207+50	38.18	0				
			2078.75	0.00	76.99	0.00
208+00	44.97	0				
			2179.25	0.00	80.71	0.00
208+50	42.2	0				
			2169.50	0.00	80.35	0.00
209+00	44.58	0				
			2388.00	0.00	88.44	0.00
209+50	50.94	0.00				
			2542.25	0.00	94.16	0.00
210+00	50.75	0.00				
			2862.50	0.00	106.02	0.00
210+50	63.75	0.00				
			3072.50	0.00	113.80	0.00
211+00	59.15	0.00				
			2633.50	0.00	97.54	0.00
211+50	46.19	0.00				
			1825.00	0.00	67.59	0.00
212+00	26.81	0.00				
			1419.75	0.00	52.58	0.00
212+50	29.98	0				
				TOTAL	**1948.87**	**80.04**

CODDINGTON HWY

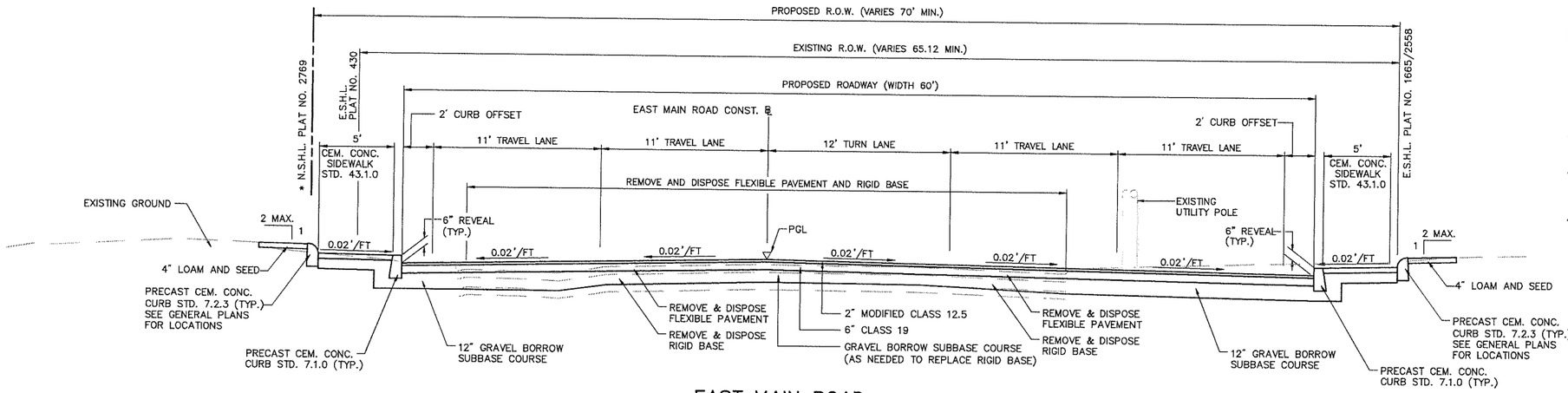
STATION	CUT AREA (sf)	FILL AREA (sf)	CUT VOLUME (cf)	FILL VOLUME (cf)	CUT VOLUME (cy)	FILL VOLUME (cy)
302+50.	7.28	0.23				
			603.50	17.50	22.35	0.65
303+00	16.86	0.47				
			744.75	19.75	27.58	0.73
303+50	12.93	0.32				
			632.50	24.75	23.43	0.92
304+00	12.37	0.67				
			527.50	29.50	19.54	1.09
304+50	8.73	0.51				
			414.75	55.00	15.36	2.04
305+00	7.86	1.69				
			778.75	121.00	28.84	4.48
305+50	23.29	3.15				
			2150.00	78.75	79.63	2.92
306+00	62.71	0.00				
				TOTAL	**216.73**	**12.82**

RAMP

STATION	CUT AREA (sf)	FILL AREA (sf)	CUT VOLUME (cf)	FILL VOLUME (cf)	CUT VOLUME (cy)	FILL VOLUME (cy)
799+50	6.89	5.67				
			806.25	147.00	29.86	5.44
800+00	25.36	0.21				
			840.50	141.50	31.13	5.24
800+50	8.26	5.45				
			464.00	136.25	17.19	5.05
801+00	10.30	0.00				
			622.75	0.00	23.06	0.00
801+50	14.61	0.00				
				TOTAL	**101.24**	**15.73**

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2015	9	80

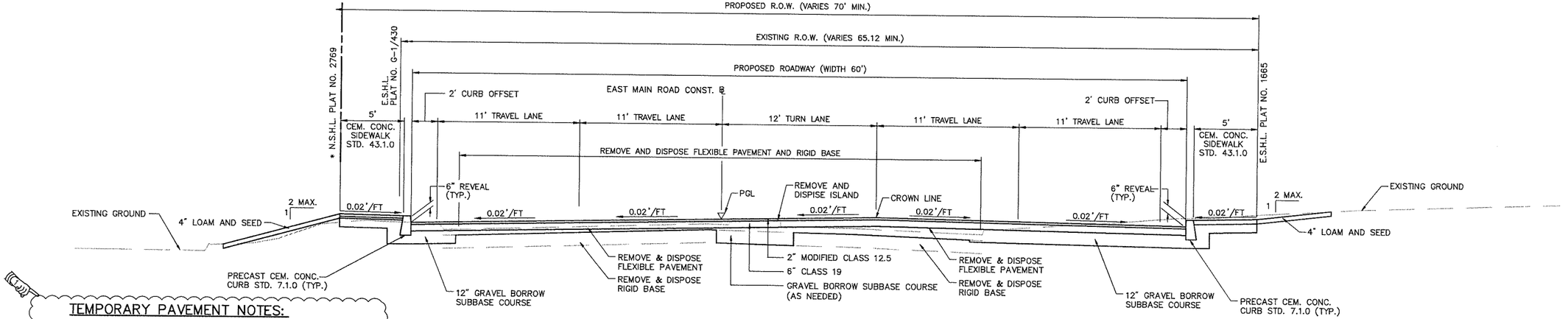


EAST MAIN ROAD
STA. 202+00 TO STA. 213+36
SCALE: 1"=4'

NOTES:

1. EXISTING GRAVEL SHALL REMAIN WITH THE APPROVAL OF THE ENGINEER. UNSUITABLE MATERIAL SHALL BE REMOVED. NEW GRAVEL BORROW SUBBASE SHALL BE ADDED IN WIDENING AREAS AND AS NECESSARY FOR LEVELING/GRADING.
2. CLASS 19 SHALL BE PAID FOR AS CLASS 19 HMA WITH PAY ADJUSTMENTS.
3. MODIFIED CLASS 12.5 SHALL BE PAID FOR AS MODIFIED CLASS 12.5 WITH PAY ADJUSTMENTS.
4. LIMITS OF CONCRETE BASE ARE APPROXIMATE, CONTRACTOR SHALL VERIFY LIMITS DURING CONSTRUCTION.

* SEE LOCATION PLANS FOR NEW SHL LOCATIONS.



EAST MAIN ROAD
STA. 200+32 TO STA. 202+00
SCALE: 1"=4'

TEMPORARY PAVEMENT NOTES:

1. CONTRACTOR SHALL REMOVE THE EXISTING CONCRETE BASE ON EAST MAIN ROAD IN SECTIONS. WORK SHALL INCLUDE BUT NOT BE LIMITED TO SAW CUTTING, PAVEMENT REMOVAL, EXCAVATION, BACKFILLING WITH GRAVEL BORROW, TEMPORARY PAVEMENT AND TEMPORARY PAVEMENT MARKINGS.
2. THE WIDTH AND LENGTH OF WORK AREA SHALL BE LIMITED TO THE AMOUNT OF WORK THAT CAN BE COMPLETED IN A SINGLE NIGHT WITHIN THE TIME PERIODS PROVIDED IN THE TMP. NOTE THE CONTRACTOR SHALL BACKFILL WITH GRAVEL BORROW AND TEMPORARY PAVEMENT. THE PAVEMENT CORES INDICATE APPROXIMATELY 4 TO 5 INCHES OF ASPHALT OVER 8 INCHES OF CONCRETE BASE.
3. THE CONTRACTOR SHALL BACKFILL WITH GRAVEL BORROW AND PLACE APPROXIMATELY 2 INCHES OF TEMPORARY PAVEMENT. PAID FOR UNDER ITEM CODE 401.2003 CLASS 12.5 HMA FOR PATCHING.
4. PRIOR TO THE WINTER SHUTDOWN THE CONTRACTOR SHALL PLACE 1" CLASS 4.75 HMA FOR LEVELING COURSE OVER TEMPORARY PAVEMENT ON EAST MAIN ROAD AT THE DIRECTION OF THE ENGINEER.

ADDENDUM NO. 3

REVISIONS		
NO.	DATE	BY
1	2/3/16	VHB

vhb PROVIDENCE, RHODE ISLAND

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION OF
TWO MILE CORNER
(ROUTES 138/114)
MIDDLETOWN, RHODE ISLAND

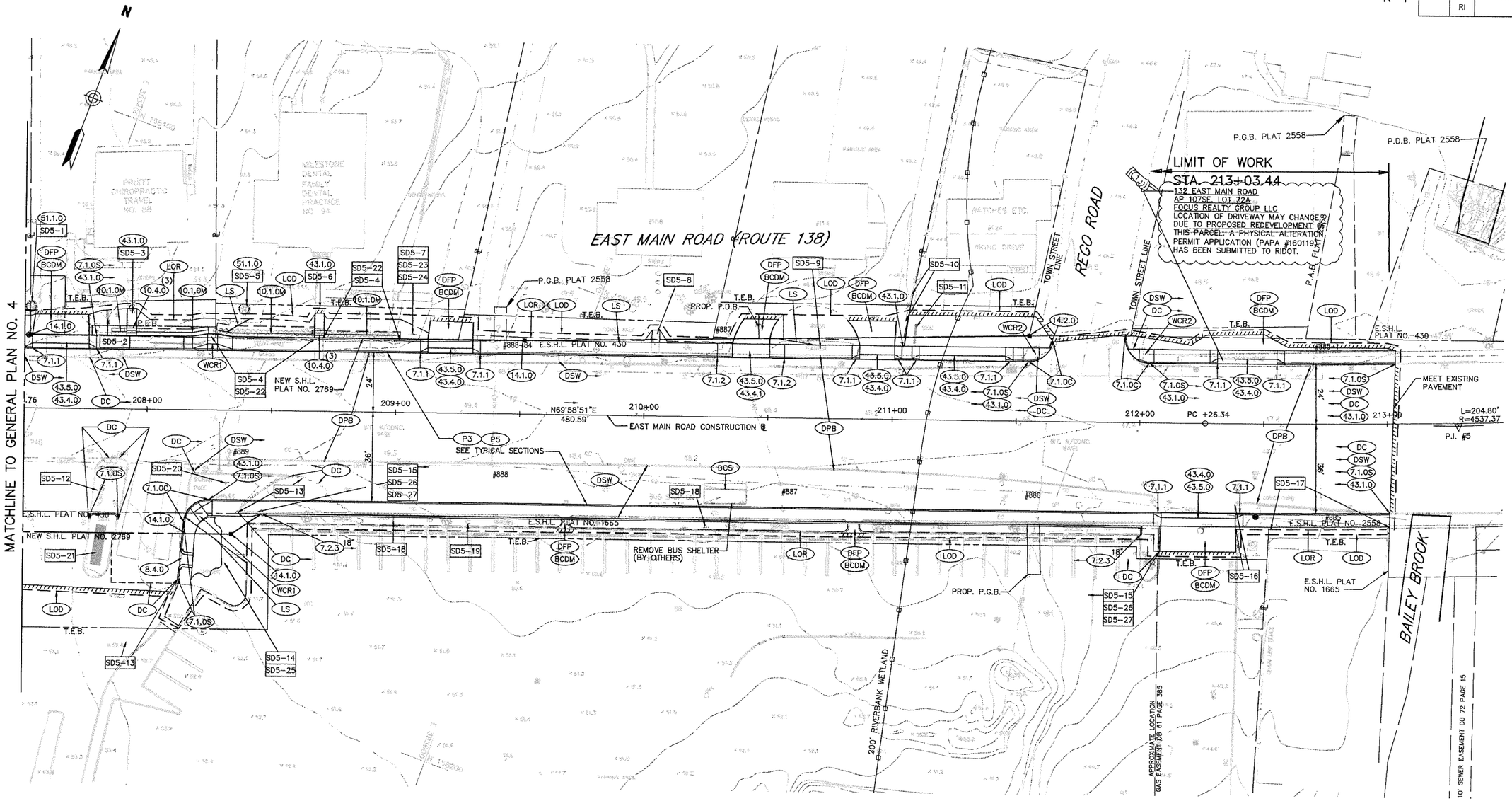
TYPICAL SECTIONS NO. 3

CHECKED BY _____ DATE _____ SCALE _____

0007F_V1_009_TYPICAL003 ADD 03

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2015	15	80



NOTE:

1. FOR LIMIT OF DISTURBANCE SEE DRAINAGE & UTILITY PLANS.
2. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALKS/WHEELCHAIR RAMPS TO HAVE A MINIMUM 4'x4' LEVEL LANDING AREA AT PEDESTRIAN PUSH BUTTON LOCATIONS.
3. MODIFIED CLASS 12.5 AND CLASS 19 HMA SHALL INCLUDE PAY ADJUSTMENTS.

20 0 20 40
SCALE IN FEET

ADDENDUM NO. 3

REVISIONS		
NO.	DATE	BY
1	2/3/16	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION OF
TWO MILE CORNER
(ROUTES 138/114)
MIDDLETOWN, RHODE ISLAND

GENERAL PLAN NO. 5

CHECKED BY _____ DATE _____ SCALE _____

vhb PROVIDENCE, RHODE ISLAND

0007F_V1_015_GENERAL005 ADD 03

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g) In cases of emergency and/or as directed by the Engineer, the Contractor shall move equipment to allow for the passage of emergency vehicles and/or open closed lanes to maintain traffic flow.

h) The Contractor shall not commence work that impacts vehicular and pedestrian traffic until fabrication of materials required to complete such work is finished and on site.

i) All work shall be completed in accordance with the Traffic-Related Work Restrictions indicated in the Transportation Management Plan **(See Appendix "F")**.

j) The Contractor shall backfill or place steel plates, as approved by the Engineer, capable of supporting HS-25 wheel loading over all trenches and excavations that are not protected by barrier at the end of work each day except when otherwise directed by the Engineer. There shall be no additional compensation for backfilling, re-excavating and/or plating these trenches and excavations.

k) The Contractor will be permitted to work during both daytime and nighttime hours provided that the minimum number of lanes and shoulders listed in TMP are maintained and access to and egress from all side streets, driveways, buildings, and other pedestrian pathways are maintained. To minimize impacts to traffic and local businesses, all paving operations and pavement marking installation shall be performed at night.

l) Upon commencement of work, the Contractor shall immediately submit shop drawings for approval for all signal equipment so that said equipment may be ordered in an expedient manner.

m) Proposed traffic signal equipment at Aquidneck Plaza Drive shall be installed and operational as specified on the plans prior to allowing traffic on the widened portion East Main Road.

n) Contractor shall remove the existing concrete base on East Main Road in sections. Work shall include but not be limited to saw cutting, pavement removal, excavation, backfilling with gravel borrow, temporary pavement and temporary pavement markings. The width and length of work area shall be limited to the amount of work that can be completed in a single night within the time periods provided in the Transportation Management Plan (TMP). Removal of the concrete base shall be completed as night work. All work shall be paid for under their respective unit bid price. Contractor shall take care to not impact conduit associated with the traffic signal equipment. The contractor may want to consider hauling large cut sections of concrete off site for disposal in order to maximize the work completed each night.

o) Prior to the winter shutdown the Contractor shall place 1" Class 4.75 HMA for Leveling Course over temporary pavement on East Main Road at the direction of the engineer.

p) Temporary traffic signal equipment shall be installed and operational at locations specified on the plans prior to removing existing signal equipment. Final traffic signal shall be installed and operational prior to removing temporary traffic signal equipment.

q) The contractor shall attend a public meeting/presentation with Middletown Town Council and RIDOT prior to construction as scheduled by the town. No additional payment will be made to the contractor to attend the meeting.

8. OPENING SECTIONS OF PROJECT TO TRAFFIC

The Contractor shall schedule pavement removal such that no location within the limits of the project over which traffic flow is to be maintained shall remain without a Class 19.0 or Class 12.5 Hot Mix Asphalt for longer than 7 working days, unless otherwise approved in writing by the Engineer.

Appendix "J"
Boring Logs

VHB Vanasse Hangen Brustlin, Inc.

Log of Well No. B-1 (TW-1)

GROUND SURFACE ELEVATION AND DATUM: NA			
PROJECT: Two Mile Corner	DATE STARTED: 12/2/09	DATE FINISHED: 12/2/09	
DRILLING CONTRACTOR: New England Geotech	TOTAL DEPTH (ft.): 19	SCREEN INTERVAL (ft.): 10-19 ft.	
DRILLING METHOD: Direct Push	DEPTH TO WATER: 11.00 ft.	CASING: 1 inch Schedule 40 PVC	
SAMPLING METHOD: 5 Ft. Hollow Sleeve Core	LOGGED BY: RLM		
HAMMER WEIGHT: NA	DROP: NA	Project No.: 70511	

DEPTH (feet)	Sample No.	PID Reading	DESCRIPTION: strata thickness,color, texture, moisture, observations	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				Ground Surface
1				1 inch Diameter Schedule 40 PVC Riser Pipe
2		0.3	3 in. of asphalt at surface. Br f-m SAND and some gravel. 44 in. of recovery. Moist.	
3				
4				
5				
6		0.3	Br f-c SAND with some gravel and Dr Gr to Bl weathered shale fragments. 36 in. of recovery (5-10 ft.) . Moist	
7				
8		0.3	Br f-c SAND with some gravel and Dr Gr to Bl weathered shale and rock fragments.	
9				1 inch Diameter 0.010 inch slot Schedule 40 PVC Screen
10				
11	B-1 at 10-12.5 ft.	1	Br f-m SAND and some gravel. 45 in. of recovery (10-15 ft.). Moist.	
12				
13		0.3	Br to Lt Br weathered shale fragments with f-m sand and gravel. Wet.	
14				
15				
16			Lt Br weathered SHALE. Refusal at 11 ft. 48 in. of recovery (15-19 ft.). Wet.	
17		519		
18			Dk Br to Gr weathered SHALE. Refusal at 19 ft. Wet. Petroleum Odor	
19				1 inch Diameter Schedule 40 PVC End Cap
20				
21				
22				
23				
24				
25				
26				
27				

Vanasse Hangen Brustlin, Inc.,10 Dorrance Street, Suite 400, Providence, RI 02903 (401) 272-8100

VHB Vanasse Hangen Brustlin, Inc.

Log of Well No. B-2

PROJECT:	Two Mile Corner	GROUND SURFACE ELEVATION AND DATUM: NA	
DRILLING CONTRACTOR:	New England Geotech	DATE STARTED: 12/2/09	DATE FINISHED: 12/2/09
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.): 12	SCREEN INTERVAL (ft.): NA
SAMPLING METHOD:	5 Ft. Hollow Sleeve Core	DEPTH TO WATER: > 12 ft.	CASING: NA
HAMMER WEIGHT: NA	DROP: NA	LOGGED BY: RLM	
		Project No.: 70511	

DEPTH (feet)	Sample No.	PID Reading	DESCRIPTION: strata thickness,color, texture, moisture, observations	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–2		0.3	3 in. of asphalt at surface. Br m-c SAND and gravel (10 in.). Br f-m SAND with rock fragments. 28 in. of recovery. Moist.	
5–7		0.3	Br f-m SAND and some gravel. 36 in. of recovery (5-10 ft.). Moist.	
8–10		1	Br to Lt Br f-m SAND and some gravel with weathered shale. Moist.	
10–12	B-2 at 10-12 ft.	91.5	Lt Br weathered SHALE fragments and f-m sand. Refusal at 12 ft. 24 in. of recovery. Moist.	

VHB Vanasse Hangen Brustlin, Inc.

Log of Well No. B-3

PROJECT:	Two Mile Corner	GROUND SURFACE ELEVATION AND DATUM: NA	
DRILLING CONTRACTOR:	New England Geotech	DATE STARTED: 12/2/09	DATE FINISHED: 12/2/09
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.): 13	SCREEN INTERVAL (ft.): NA
SAMPLING METHOD:	5 Ft. Hollow Sleeve Core	DEPTH TO WATER: > 13 ft.	CASING: NA
HAMMER WEIGHT: NA	DROP: NA	LOGGED BY: RLM	
		Project No.: 70511	

DEPTH (feet)	Sample No.	PID Reading	DESCRIPTION: strata thickness,color, texture, moisture, observations	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–10			Skipped sampling and attempted to reach groundwater.	
10–13		1.6	Br weathered SHALE and f-m sand. Refusal at 13 ft. 48 in. of recovery. Moist to wet.	

VHB Vanasse Hangen Brustlin, Inc.

Log of Well No. B-4 (TW-2)

PROJECT:	Two Mile Corner	GROUND SURFACE ELEVATION AND DATUM: NA	
DRILLING CONTRACTOR:	New England Geotech	DATE STARTED: 12/2/09	DATE FINISHED: 12/2/09
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.): 18.5	SCREEN INTERVAL (ft.): 8.5-18.5 ft.
SAMPLING METHOD:	5 Ft. Hollow Sleeve Core	DEPTH TO WATER: 9.30 ft.	CASING: 1 inch Schedule 40 PVC
HAMMER WEIGHT: NA	DROP: NA	LOGGED BY: RLM	
		Project No.: 70511	

DEPTH (feet)	Sample No.	PID Reading	DESCRIPTION: strata thickness,color, texture, moisture, observations	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				Ground Surface
1				1 inch Diameter Schedule 40 PVC Riser Pipe
2		0.3	3 in. of asphalt at surface. Br f-m SAND and some gravel with rock fragments. 36 in. of recovery Moist.	
3				
4				
5				
6		0.3	Lt Br f-m SAND with weathered shale and rock fragments. 48 in. of recovery (5-10 ft.). Moist.	
7				
8	B-4 at 7.5-10 ft.			
9		0.3	Br f-m SAND and some gravel with weathered shale fragments. Moist.	1 inch Diameter 0.010 inch slot Schedule 40 PVC Screen
10				
11				
12		0.3	Br weathered SHALE with f-m sand. 11 ft. - 3 in. Band of Dk Gr m-c sand. 48 in. of recovery. Wet.	
13				
14				
15				
16				
17		0.9	Br to Gr weathered SHALE. Refusal at 18.5 ft. 48 in. of recovery. Wet.	
18				1 inch Diameter Schedule 40 PVC End Cap
19				
20				
21				
22				
23				
24				
25				
26				
27				

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VHB Vanasse Hangen Brustlin, Inc.

Log of Well No. B-5 (TW-3)

PROJECT:	Two Mile Corner	GROUND SURFACE ELEVATION AND DATUM: NA	
DRILLING CONTRACTOR:	New England Geotech	DATE STARTED: 12/3/09	DATE FINISHED: 12/3/09
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.): 19	SCREEN INTERVAL (ft.): 9-19 ft.
SAMPLING METHOD:	5 Ft. Hollow Sleeve Core	DEPTH TO WATER: 8.30 ft.	CASING: 1 inch Schedule 40 PVC
HAMMER WEIGHT: NA	DROP: NA	LOGGED BY: RLM	
		Project No.: 70511	

DEPTH (feet)	Sample No.	PID Reading	DESCRIPTION: strata thickness,color, texture, moisture, observations
0			Ground Surface
1			1 inch Diameter Schedule 40 PVC Riser Pipe
2		0.3	3 in. if asphalt at surface. Dk Br to Lt Br f-m SAND and some gravel. 3-4 ft. Lt Gr weathered shale fragments. 40 in. of recovery. Dry.
3			
4			
5			
6		0.9	Br weathered SHALE and f-m sand and some gravel. 60 in. of recovery (5-10 ft.) Dry.
7			
8	B-5 at 7.5-10 ft.		
9		224	Br to Dk Gr weathered SHALE and f-m SAND and some gravel.
10			1 inch Diameter 0.010 inch slot Schedule 40 PVC Screen
11		299	Br to Dk Gr weathered shale. 60 in. of recovery Moist. Petroleum odor.
12			
13			
14		922	Lt Br weathered SHALE. Appears to be material that collapsed from above. Dry.
15			
16			
17		487	Br to Gr weathered SHALE and f-m sand. Wet. Petroleum odor. Light Br weathered shale appears to have collapsed from above.
18			
19			1 inch Diameter Schedule 40 PVC End Cap
20			
21			
22			
23			
24			
25			
26			
27			

Vanasse Hangen Brustlin, Inc.,10 Dorrance Street, Suite 400, Providence, RI 02903 (401) 272-8100

VHB Vanasse Hangen Brustlin, Inc.

Log of Well No. B-6 (TW-4)

PROJECT:	Two Mile Corner	GROUND SURFACE ELEVATION AND DATUM: NA	
DRILLING CONTRACTOR:	New England Geotech	DATE STARTED: 12/3/09	DATE FINISHED: 12/3/09
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.): 19	SCREEN INTERVAL (ft.): 9-19 ft.
SAMPLING METHOD:	5 Ft. Hollow Sleeve Core	DEPTH TO WATER: 11.30 ft.	CASING: 1 inch Schedule 40 PVC
HAMMER WEIGHT: NA	DROP: NA	LOGGED BY: RLM	
		Project No.: 70511	

DEPTH (feet)	Sample No.	PID Reading	DESCRIPTION: strata thickness, color, texture, moisture, observations	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				Ground Surface
1				1 inch Diameter Schedule 40 PVC Riser Pipe
2		0	Asphalt pieces at surface. Br to Lt Br f-c SAND and some gravel with rock fragments. 32 in. of recovery. Moist.	
3				
4				
5				
6		0	Br f-m SAND and weathered shale fragments. 42 in. of recovery (5-10 ft.) Dry.	
7				
8				
9		0	Br weathered SHALE. Moist.	1 inch Diameter 0.010 inch slot Schedule 40 PVC Screen
10	B-6 at 10-125. ft.			
11		0	Br to Gr weathered SHALE. 48 in. of recovery (10-15 ft.). Moist.	
12				
13				
14		0	Br to Gr weathered SHALE. Moist.	
15				
16				
17		0	Br to Gr weathered SHALE with m-c sand. 30 in. of recovery. Wet.	
18				
19				1 inch Diameter Schedule 40 PVC End Cap
20				
21				
22				
23				
24				
25				
26				
27				

Vanasse Hangen Brustlin, Inc., 10 Dorrance Street, Suite 400, Providence, RI 02903 (401) 272-8100

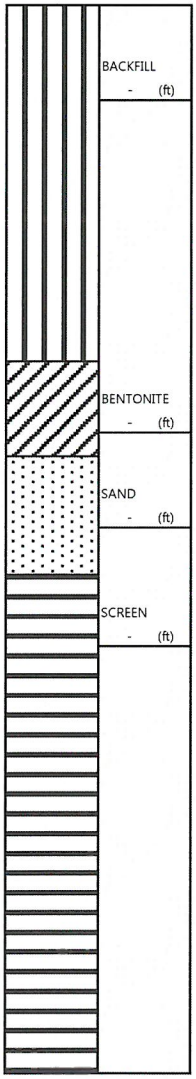
PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	West Main Road just north of Coddington Highway		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-1**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	8 feet
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/40	ND	4" asphalt 12" concrete 24" brown fines
5-8	2	NA	36/30	ND	30" brown and gray sand, some silt, little gravel, trace clay

WELL CONSTRUCTION



SOIL DESCRIPTIONS:

1) PRIMARY GRAIN SIZE
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)
2) SECONDARY GRAIN SIZE
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)
4) MOISTURE (WET, MOIST, DRY)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)
6) ANGULARITY
(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
7) COLOR (GREY, BROWN, etc)
8) STRUCTURES, STAINING, ALTERATION
(LAMINATED, BEDDED, IRON STAINED, ETC.)
9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

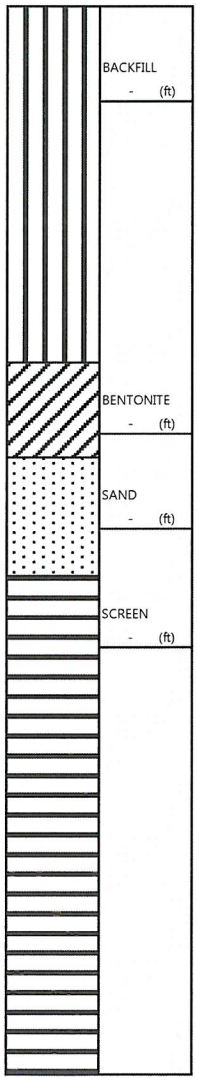
PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	Corner of West Main Road and Maplewood Road		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-2**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/40	ND	4" asphalt 4" concrete 6" brown soil 18" brown and tan fine sand trace silt
5-8	2	NA	36/30	ND	30" brown and gray sand, some silt, little gravel, trace clay

WELL CONSTRUCTION



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE	6) ANGULARITY
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE	7) COLOR (GREY, BROWN, etc)
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	8) STRUCTURES, STAINING, ALTERATION
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	(LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

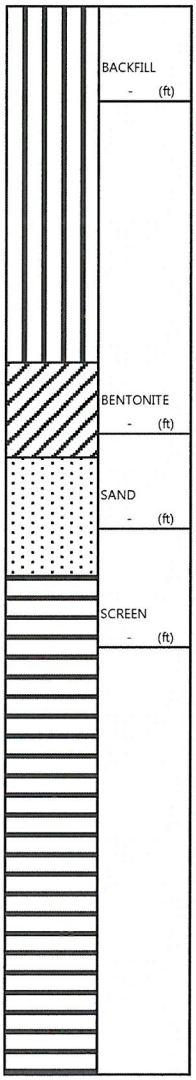
PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	Corner of Coddington Highway and Lake Erie Street		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-3**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/50	ND	6" asphalt 44" brown fine to coarse sand
5-8	2	NA	36/36	ND	36" tan fine to coarse sand, few rocks

WELL CONSTRUCTION



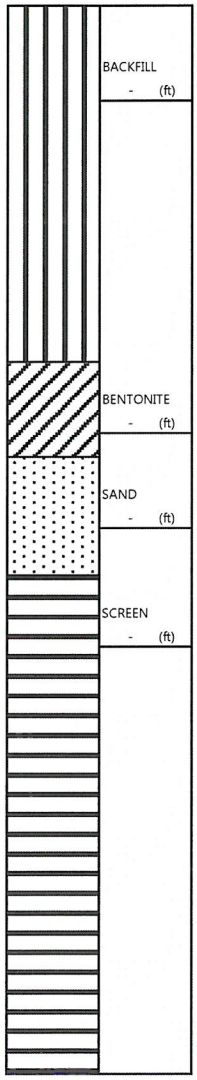
SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE	6) ANGULARITY
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE	7) COLOR (GREY, BROWN, etc)
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	8) STRUCTURES, STAINING, ALTERATION
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	(LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	Coddington Highway in front of Humphrey's		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-4**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/55	ND	6" asphalt 14" concrete 24" brown and dark gray fine sand, some silt
5-8	2	NA	36/36	ND	Very dark brown fine to coarse sand some gravel



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE	6) ANGULARITY
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE	7) COLOR (GREY, BROWN, etc)
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	8) STRUCTURES, STAINING, ALTERATION
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	(LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

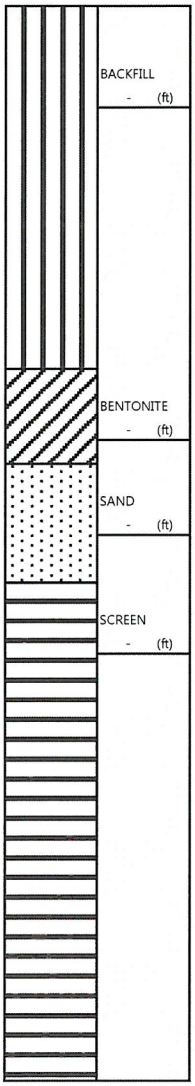
PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	Coddington Highway just west of West Main Road		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-5**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/55	ND	4" asphalt 18" concrete 12" brown medium sand tace rock 4" gray rock
5-8	2	NA	36/36	ND	Tan and brown fine to coarse sand, few gravel

WELL CONSTRUCTION



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE	6) ANGULARITY
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE	7) COLOR (GREY, BROWN, etc)
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	8) STRUCTURES, STAINING, ALTERATION
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	(LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

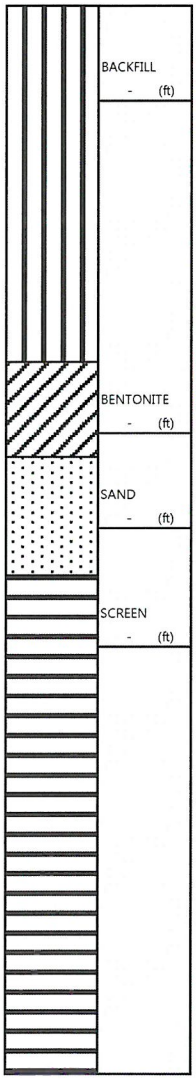
PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	West Main Road just north of Commercial Boulevard		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-6**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/50	ND	6" asphalt 14" concrete 30" fine brown sand
5-8	2	NA	36/36	ND	Tan and brown fine to coarse sand, some gravel

WELL CONSTRUCTION



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE	6) ANGULARITY
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE	7) COLOR (GREY, BROWN, etc)
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	8) STRUCTURES, STAINING, ALTERATION
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	(LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

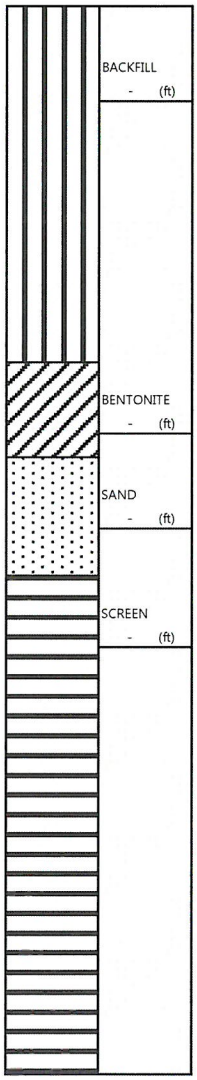
PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	Intersection of East Main Road and West Main Road		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-7**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES
First attempt met refusal at 5'. A second boring was advanced approximately 6 inches to the east and was the location of the subsurface sample.

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/50	ND	2" asphalt 8" concrete 40" coarse black and brown sand
5-8	2	NA	36/36	ND	Weathered tan shoal, some red and tan coarse sand

WELL CONSTRUCTION



SOIL DESCRIPTIONS:

1) PRIMARY GRAIN SIZE
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)
2) SECONDARY GRAIN SIZE
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)
4) MOISTURE (WET, MOIST, DRY)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)
6) ANGULARITY
(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
7) COLOR (GREY, BROWN, etc)
8) STRUCTURES, STAINING, ALTERATION
(LAMINATED, BEDDED, IRON STAINED, ETC.)
9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

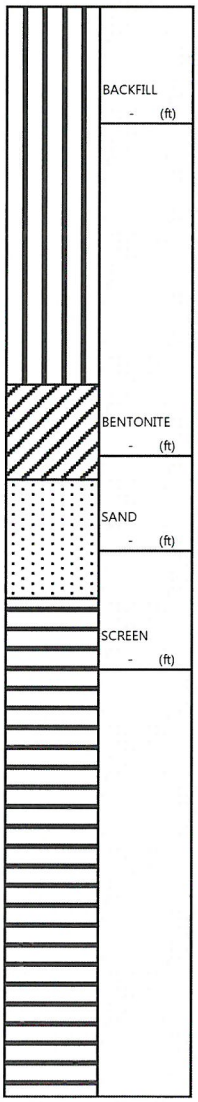
PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	East Main Road in front of The Corner Café & Chipotle		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-8**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/50	ND	8" asphalt 6" gravelly subbase 4" rock 4" gray fine sand 8" fine brown sand, trace clay
5-8	2	NA	36/36	ND	Weathered bedrock

WELL CONSTRUCTION



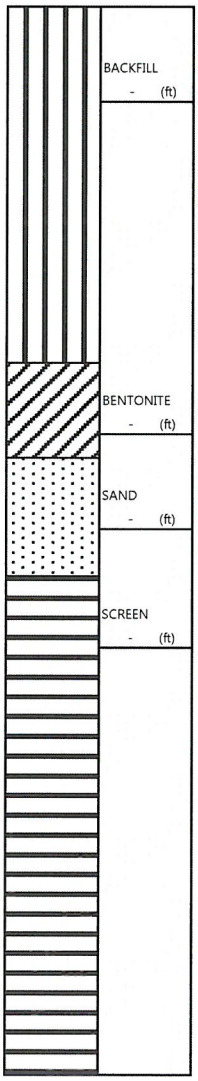
SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE	6) ANGULARITY
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE	7) COLOR (GREY, BROWN, etc)
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	8) STRUCTURES, STAINING, ALTERATION
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	(LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	East Main Road in front of Aquidneck Liquor		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-9**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/55	0.4	24" concrete 31" brown and tan damp fines, trace clay
5-8	2	NA	36/36	ND	28" brown fines 8" weathered bedrock



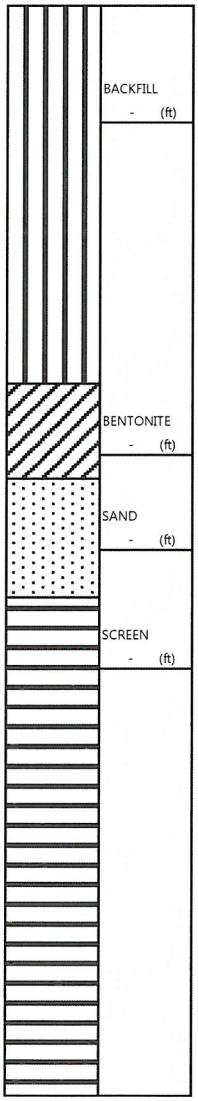
SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE	6) ANGULARITY
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE	7) COLOR (GREY, BROWN, etc)
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	8) STRUCTURES, STAINING, ALTERATION
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	(LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	East Main Road in front of Citizen's Bank		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-10**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/50	1	4" asphalt 10" concrete 4" brown and gray coarse sand 2" black material with slight odor 20" brown and gray coarse sand
5-8	2	NA	36/36	ND	Weathered rock



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE	6) ANGULARITY
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE	7) COLOR (GREY, BROWN, etc)
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	8) STRUCTURES, STAINING, ALTERATION
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	(LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

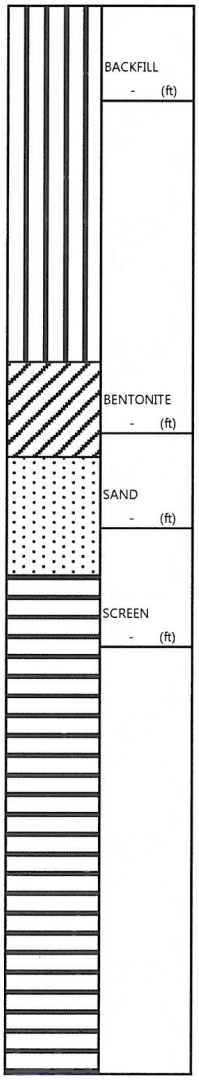
PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	East Main Road just east of the light for Aquidneck Shopping Cente		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-11**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES
Refusal at 7.5 feet.

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/36	2.5	4" asphalt 10" concrete 22" rocky brown fill
5-7.5	2	NA	30/30	0.1	15" brown rocky coarse to medium sand 15" tan fines trace weathered rock

WELL CONSTRUCTION



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE	6) ANGULARITY
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE	7) COLOR (GREY, BROWN, etc)
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	8) STRUCTURES, STAINING, ALTERATION
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	(LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

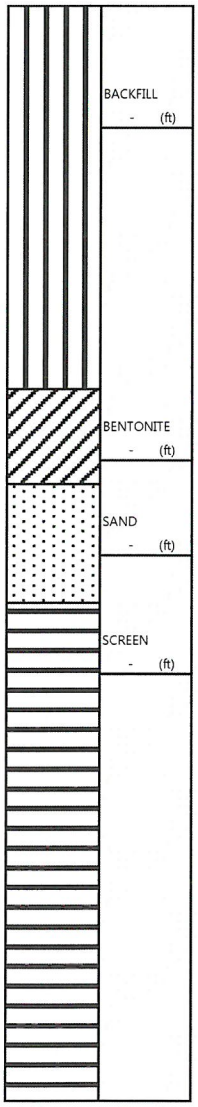
PROJECT:	70511.01	CLIENT:	RIDOT
LOCATION:	East Main Road in front of bus stop near Shaws & Flint Audio		
DIGSAFE:			
DRILLER:	New England Geotech - Hayes	LOGGED BY:	SAM
DRILLING METHOD:	Geoprobe	DRILL DATE:	5/14/2015
SAMPLING METHOD:	Direct	END DATE:	5/14/2015
PRE-CLEAR DEPTH:	None		

LOCATION ID:	**VHB-12**
STATIC WATER LEVEL:	NA
TOTAL DEPTH:	NA
SCREEN LENGTH:	NA
PVC DIAMETER, SLOT:	NA
BOTTOM OF WELL SCREEN:	NA
OUTSIDE DIA. OF BORING:	2"
FINISH:	NA
REFUSAL ENCOUNTERED:	**NO**

DRILLING NOTES

DEPTH (ft)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in)	PID (ppm)	SOIL DESCRIPTION
0-5	1	NA	60/50	0.4	4" asphalt 6" concrete 8" brown sandy fill trace gravel 3" weathered rock 8" dark brown soil
5-8	2	NA	36/36	ND	Damp red and brown clay

WELL CONSTRUCTION



SOIL DESCRIPTIONS:

1) PRIMARY GRAIN SIZE
(BOULDERS, COBBLES,GRAVEL, SAND (COARSE, FINE) SILT, CLAY)
2) SECONDARY GRAIN SIZE
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)
4) MOISTURE (WET, MOIST, DRY)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)
6) ANGULARITY
(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
7) COLOR (GREY, BROWN, etc)
8) STRUCTURES, STAINING, ALTERATION
(LAMINATED, BEDDED, IRON STAINED, ETC.)
9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY,CHANNEL DEPOSIT, etc)

Appendix "K"
Town of Middletown Sewer Map

Sheet 4

1 inch = 300 feet

0 150 300 450 Feet

TOWN OF MIDDLETOWN SEWER MAP

Legend

Sewer Sub Area

Sewer Line

In Contract Pipe to be Inspected

In Contract Manhole to be Inspected

Pumping Station

Sewer Line

2 Inches
3 Inches
4 Inches
6 Inches
8 Inches
10 Inches
12 Inches
14 Inches
15 Inches
16 Inches
18 Inches
20 Inches
21 Inches
27 Inches
30 Inches
Towns Boundary

Sub Area 6

Sub Area 7A

Sub Area 7

Sub Area 8

Sub Area 10

CHESTNUT HILLS RD PS

ROSEDALE AVE PS

FORMER CHICKEN COOP PS

Sewer System - Location of Sewer Lines and Manholes to be Inspected. July 2010

Item	SPECIAL PROVISION INDEX Description	Page
T06.9901 T06.9902 T06.9903 T06.9904	Dual 1-1/4 Inch High Density Polyethylene Duct – Under Existing Pavement Dual 1-1/4 Inch High Density Polyethylene Duct – Underground Single 1-1/4 Inch High Density Polyethylene Duct – Under Existing Pavement Single 1-1/4 Inch High Density Polyethylene Duct – Underground	JS-109
T11.9901 T11.9902 T11.9903 T11.9905 T11.9906 T11.9907 T11.9908	25 Foot Galvanized Steel Mast Arm Traffic Signal Post and Foundation, Std. 19.2.0 30 Foot Galvanized Steel Mast Arm Traffic Signal Post and Foundation, Std. 19.2.0 45 Foot Galvanized Steel Mast Arm Traffic Signal Post and Foundation, Std. 19.2.0 40 Foot Galvanized Steel Mast Arm Traffic Signal Post and Foundation, Std. 19.2.0 (Modified) 50 Foot Galvanized Steel Mast Arm Traffic Signal Post and Foundation, Std. 19.2.0 (Modified I) 50 Foot Galvanized Steel Mast Arm Traffic Signal Post and Foundation, Std. 19.2.0 (Modified II) Dual Mast Arm (25x35) Galvanized Steel Mast Arm Traffic Signal Post and Foundation, Std. 19.2.0	JS-112
T11.9904	5 Foot Galvanized Steel Pedestal Pole and Foundation	JS-122
T11.9909	40 Foot Galvanized Steel Camera Pole with Lowering Device and Foundation	JS-123
T12.9901 T12.9902	Actuated Controller, TS-2, Type 1 and MMU with 8 Phase Assembly, Ground Mounted including Foundation and Cabinet Standard 19.1.0 Actuated Controller, TS-2, Type 1 and MMU2 in Existing Cabinet	JS-131
T12.9903	Fiber Optic Splice Enclosure – 96 Position	JS-134
T12.9904	Fiber Optic Patch Panel - 12 Position	JS-136
T12.9905	Ethernet Switch	JS-138
T12.9906	Modify Existing Traffic Signal Controller Cabinet	JS-142
T12.9907	Modify Existing Central Computer System	JS-144
T12.9908	Temporary Traffic Signal System	JS-146
T12.9909	Maintenance of Temporary Traffic Signal System	JS-149
T.13.1000	Traffic Detectors and Relays	JS-151
T14.9901 T14.9902 T14.9903	1 Way Pedestal Mounted LED Pedestrian Signal Head with Countdown Timer 12 Inch 2 Way Pedestal Mounted LED Pedestrian Signal Head with Countdown Timer 12 Inch 1 Way Bracket Mounted LED Pedestrian Signal Head with Countdown Timer 12 Inch	JS-152
T15.9902	RIPTA Bus Stop Sign	JS-155
T20.2019	12 Inch Epoxy Resin Pavement Markings Yellow	JS-156
T20.2042	Epoxy Resin Yield Line Symbol Pavement Markings - White	JS-157
T20.9901	Epoxy Resin Pavement Marking – Share the Road Symbol	JS-158
T20.9902	Fast-Drying Waterborne Paint Pavement Marking – Share the Road Symbol	JS-159
T20.9903 T20.9904	Temporary Waterborne Paint Pavement Marking – Share the Road Symbol Temporary Waterborne Pavement Marking – Helmeted Bicyclist Symbol with Arrow	JS-160
T20.9905 T20.9906	Temporary Epoxy Resin Pavement Marking – Share the Road Symbol Temporary Epoxy Resin Pavement Marking – Helmeted Bicyclist Symbol with Arrow	JS-161
903.9902	Fence Repair - GWVTS	JS-162
929.9901	Field Offices and Materials Laboratory	JS-163
701.9905	Sanitary Sewer Bypass	JS-164

construction Contractor to RIDOT's Natural Resources Unit, 2 Capitol Hill, in Providence.

LIVE LOADING: The Contractor is required to identify authorized and licensed receiving facilities for disposal of excess soil. The Contractor is required to contact the proposed receiving facility and identify the appropriate waste characterization analysis required for the facility to accept the soil for disposal. The Contractor will pre-characterize soil for disposal facility acceptance. If receiving facilities require additional analysis collection and analysis of soil shall be borne by the Contractor.

The Contractor will obtain pre-approval from the receiving facility to directly load off-site vehicles during excavation for immediate transportation to the receiving disposal facility (i.e. live load). Before an excavation of soil, the Contractor will provide the RIDOT Resident Engineer with the name, address, permit numbers, and pre-approvals to receive the soil generated from the project, in addition to copies of any new analytical results. The information will be submitted to RIDOT's Natural Resources Unit, 2 Capitol Hill, Providence, RI prior to initiation of excavation activities. RIDOT reserves the right to reject the proposed receiving facility The Contractor must receive concurrence from the RIDOT for the proposed disposal facility. Upon approval by RIDOT, the Contractor will submit a letter to the RIDEM Project Manager informing them of the selected receiving facility.

Any excess soil remaining after the completion of the project that requires disposal at a licensed facility (based on analytical results) will be transported for disposal within thirty (30) days following the conclusion of Project activities. Soil disposal documentation (e.g., manifest, bill of lading) will be provided to RIDEM within forty-five (45) days.

DUST/ODOR CONTROL: It is the Contractor's responsibility to control dust and odors as required by the applicable Regulations at any stockpile locations and at all locations traveled for this stockpiling operation leading to and from the stockpile areas. The Contractor must provide all reasonable precautions to prevent excessive dust generation during soil handling activities, and the Contractor's work must comply with all applicable federal, state and local regulations include the RIDEM Air Pollution Control Regulations, specifically Regulation No. 5 regarding fugitive dust. The Contractor must conduct dust control measures during and after normal work hours and on weekends, as necessary, to control dust. Any stockpiles shall be inspected on a daily basis. Any conditions warranting corrective actions shall be addressed immediately upon being brought to the attention of the Contractor.

SOIL CHARACTERIZATION: All soil which is proposed for excavation and which is not interred within the project limits beneath the proposed cap (refer to RAWP) needs to be characterized for off-Site disposal purposes. The Contractor shall be responsible for testing/characterization or obtaining pre-characterization. If such pre-characterization is performed and proof of disposal facility acceptance obtained and approved by the Engineer, the Contractor may live load soils for disposal off-site. Copies of all analytical results and proof of acceptance by the disposal facility must be submitted to RIDOT at least 2 weeks prior to the commencement of excavation for soils being live-loaded, and at least 2 weeks prior to transportation to the disposal facility for those soils being stockpiled.
ADDENDUM NO. 3

All excavated soil which is not interred below one of the approved capping methods (refer to RAWP) at the Site will either be stockpiled for off-Site disposal characterization or will be pre-characterized and classified for off-Site disposal via live loading.

Based upon the results of previous soil investigations (refer to SIR), all excavated soils not being interred beneath one of the approved capping methods at the Site are assumed to be acceptable at the Rhode Island Resource Recovery Corporation (RIRRC) for disposal as Solid Waste Soils pending the Contractor's pre-classification or soil stockpile sampling results below the characteristic of toxicity per 40 CFR 261.24, TVOCs less than 40 ppmv via field screening (if performed), and soil samples above RIDEM Method 1 Industrial/Commercial DEC and GA Leachability Criteria but are non-hazardous.

Should any excavated soils that are not being interred beneath one of the approved capping methods at the Site exhibit characteristics of toxicity per 40 CFR 261.24 or TVOCs greater than 40 ppm via field screening (if performed), they shall be stockpiled separate from other stockpiled soils and further tested for hazardous waste characteristics and RIRRC disposal parameters. Soils which exhibit the characteristic of toxicity per 40 CFR 261.24 or which otherwise exceed EPA hazardous waste characteristics and are not acceptable at the RIRRC facility are to be disposed of as a hazardous waste.

UNEXPECTED CONDITIONS: Site excavation associated with the placement of footings, construction, and/or other activities throughout the Project area may unearth solid debris and/or refuse materials such as concrete, brick, rubble, pipe, lumber and other building materials. This material should be segregated to the extent feasible and stockpiled separately from Site soils. Disposal of this material will be handled by the Contractor in a manner consistent with demolition and refuse clearing projects and in accordance with RIDEM Solid Waste Regulations.

If unusual observations (i.e. drums, free product, or unusual odors) are made during excavation within the Project work areas, then the Contractor will immediately cease all further excavation work and contact the Engineer. Workers should not handle the identified material of interest and shall notify the RIDOT project supervisor for further direction. The Engineer will in turn notify RIDEM if appropriate and the need for an addendum or amendment will be evaluated. If required, the Contractor is responsible for contacting an emergency response contractor to collect the material/item for immediate containerization and off-Site disposal. If required, Contractor will provide approved, lined and covered roll-off containers (or other competent and suitable container) for the containment of any semi-solid, liquid, or other hazardous waste. These emergency response actions will be conducted in accordance with all state, federal and local laws and the Contractor will provide the Engineer with copies of all analytical, approvals, shipping papers, and confirmation of proper disposal.

SECURITY: The Contractor shall secure the site to keep the Public away from contaminated material stockpiled on site. The Contractor shall provide a temporary fence securing contaminated stockpiles.

DECONTAMINATION: The Contractor is responsible for decontaminating all tools, heavy equipment, and other items that leave the work area in accordance with the all requirements set forth in the applicable regulations and/or in the RAWP and SMP, and properly characterizing and disposing of waste/wastewater resulting from decontamination procedures. This includes, but is not necessarily limited to, the following:

- Brush soil from equipment and containerize prior to washing equipment surfaces;
- Sample and analyze the containerized waste for proper off-Site transportation and disposal at the frequencies and for the parameters established in the applicable regulations;
- Proper disposal of the containerized material (refer to Code 202.9902); and
- Construction entrances/stone stabilized pads will be placed at the construction boundary zone to facilitate the removal of excess soil from vehicle tires for those vehicles which need to leave the work zone on a daily basis.

OPERATIONS LOG: The Contractor is responsible for maintaining an Operations Log as included in the RAWP. The Operations Log will be maintained daily and will document the observations made during excavation throughout the Project Area. The log must include, but not necessarily be limited to, the following:

- Dates of earthwork activities;
- Dates and times of sampling;
- Soil Management Observations;
- Description of soil movements;
- Approximate volumes of excavated materials;
- Waste/Soil tracking;
- Final off-Site disposal locations; and
- Disposal documentation.

The Contractor will provide a summary report to the Engineer on a daily basis, and shall provide copies of their Operating Log to the Engineer on a weekly basis. If required by RIDEM, the engineer will be responsible for compiling and submitting the logs to RIDEM in a manner and timeframe acceptable to RIDEM.

CONFORMANCE: While engaged in contamination/hazardous material removal and contaminated soil management, the Contractor shall be subject to on-Site inspection by the RIDOT inspector, Engineer, or other regulatory officials. If the work is in violation of the requirements of this, or any other specification, or is in violation of a state, local or federal regulation, the inspector may issue a stop work order to be in effect immediately and until the violation is resolved. Standby time and expenses required to resolve the violation shall be at the Contractor's expense.

shall be granted to the contractor to perform these tie-ins during premium time. All additional costs shall be covered in the unit cost of the items being installed. Off-Peak hours shall be considered hours outside the business operation hours of the business affected by the shutdown. Off-Peak hours shall be considered between 11 pm and 5 am (the next morning) for residential properties impacted by the shutdown.

METHOD OF MEASUREMENT. "Water Pipe and Service Tubing" of various types of materials and sizes shall be measured by the number of linear feet actually installed in accordance with the Plans and/or as directed by the Engineer.

"Fittings and Couplings" of various types of materials and sizes shall be measured by the number of pounds actually installed in accordance with the Plans and/or as directed by the Engineer.

"Gate Valves, Valves and Service Boxes, Service Brass, Blow-off Assemblies, Hydrants and Leakage Tests" of various types of materials and sizes shall be measured by the number of each unit actually installed in accordance with the Plans and/or as directed by the Engineer.

"Disinfection of New Water Mains" shall be measured as 50-percent complete when samples of water are taken from the water main after all the chlorine has been flushed from the system. "Disinfection of New Water Mains" shall be measured as 100-percent complete when samples of water are taken from the water main after all the chlorine has been flushed from the system meet laboratory standards as determined by the Rhode Island Department of Health.

BASIS OF PAYMENT. The accepted quantities of the various types and sizes of "Water Pipe and Service Tubing" indicated on the Plans will be paid for at the respective contract unit prices per linear foot as listed in the Proposal. These separate payments so stated constitutes full and complete compensation for all labor, materials, tools and equipment, including ductile iron pipe, sawcutting, excavation (except trench rock excavation and excavation of unsuitable material below grade), sheeting, shoring, and bracing for excavation and backfill, pipe bedding class B, laying, setting and joining pipe, removal of temporary caps or plugs with or without restraints, provisions of joint restraint, installing pipe on pipe hangers, slides and guides, backfill, temporary pavement patching, and other incidentals necessary to finish the work required, complete and accepted by the Engineer.

The accepted quantities of the various types and sizes of "Fittings and Couplings" indicated on the Plans will be paid for at the respective contract unit prices per pound as listed in the Proposal. These separate payments so stated constitutes full and complete compensation for all labor, materials, tools and equipment, including fittings, couplings, excavation (except trench rock excavation and excavation of unsuitable material below grade), sheeting, shoring, and bracing for excavation and backfill, pipe bedding class B, laying, setting and joining pipe,

concrete thrust and anchor blocks, anchor rods, removal of temporary caps or plugs with or without restraints, provisions of joint restraint, backfill, and other incidentals necessary to finish the work required, complete and accepted by the Engineer.

The accepted quantities of the various types and sizes of "Gate Valves, Valves and Service Boxes, Service Brass, Blow-off Assemblies, Hydrants and Leakage Tests" indicated on the Plans will be paid for at the respective contract unit prices per each as listed in the Proposal. These separate payments so stated constitutes full and complete compensation for all labor, materials, tools and equipment, including gate valves, valves and service boxes, service brass, blow-off assemblies, hydrants, excavation (except trench rock excavation and excavation of unsuitable material below grade), sheeting, shoring, and bracing for excavation and backfill, pipe bedding class B, removal of temporary caps or plugs with or without restraints, provision of joint restraint, pressure and leakage tests, sterilization of water main, backfill, and other incidentals necessary to finish the work required, complete and accepted by the Engineer.

"Disinfection of Water Mains" will be paid for at the contract unit price per lump sum as listed in the Proposal as follows:

a. First Payment. The first payment of 50-percent of the contract unit price per lump sum will be made when samples are taken from the water main after all chlorine has been flushed from the system.
b. Second Payment. The second payment of the contract unit price per lump sum less the first payment will be made when the samples meet the laboratory standards as determined by the Rhode Island Department of Health, Division of Water Supply.

This price so stated constitutes full and complete compensation for all labor, materials, tools and equipment, including disinfecting solution, flushing, sampling, repeated treatments, double check valves and installation, sterilization of water main, and other incidentals necessary to finish the work required, complete and accepted by the Engineer.

Payment for bedding material shall conform to Subsection 701.05.4, Bedding Material, of the Standard Specifications.

This specification covers the following item codes:

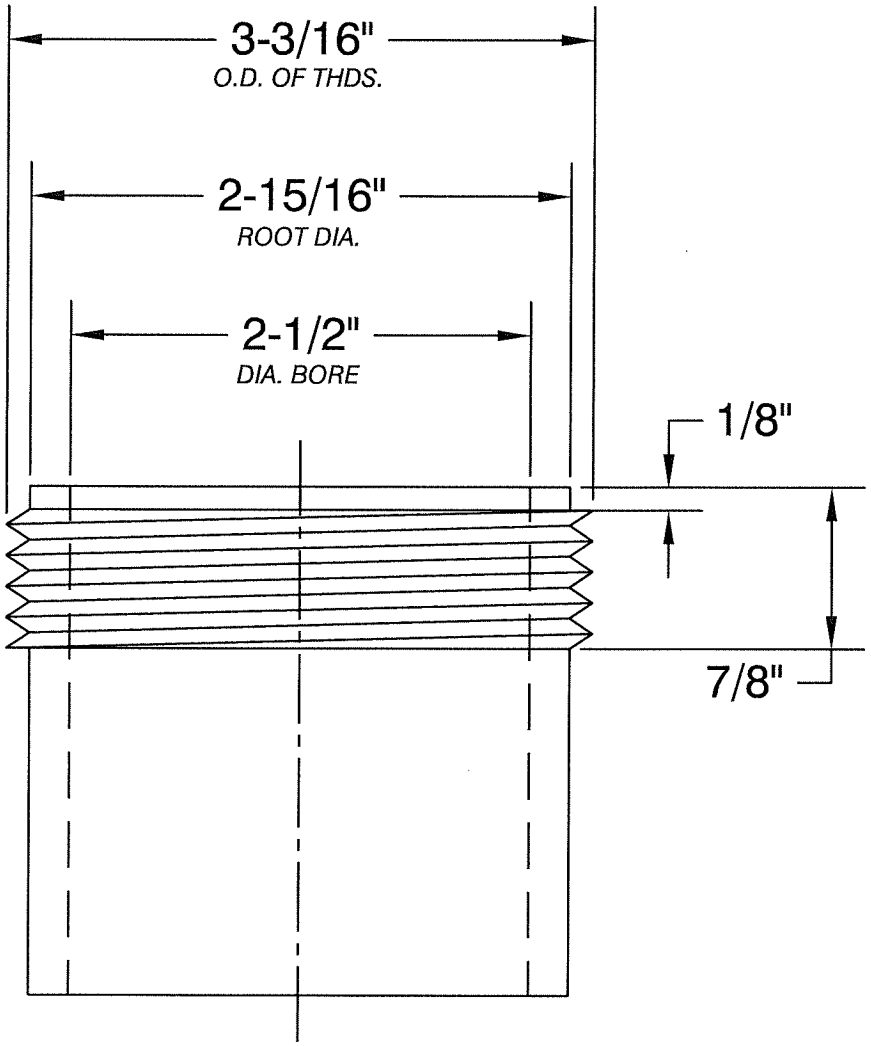
Item Code 201.0418 Remove and Dispose Hydrant
Item Code 201.9902 Remove and Dispose Water Gate
Item Code 701.5406 6 Inch Ductile Iron Water Pipe Class 52, Mechanical Joint
Item Code 701.5408 8 Inch Ductile Iron Water Pipe Class 52, Mechanical Joint
Item Code 701.5412 12 Inch Ductile Iron Water Pipe Class 52, Mechanical Joint
Item Code 701.8100 Furnish and Install Ductile Iron Fittings
Item Code 701.8106 6 Inch Gate Valve and Box
Item Code 701.8108 8 Inch Gate Valve and Box

Item Code 701.8150	Type K Copper Service Pipe
Item Code 701.8160	Blow Off Assembly
Item Cost 701.8170	8x6 Tapping Sleeve & Tapping Valve with Gate Box
Item Code 701.9001	Conduct Leakage Test
Item Code 701.9002	Sterilization of Water Mains
Item Code 701.9901	Replace Irrigation System Valve
Item Code 701.9902	24x12 Tapping Sleeve and Tapping Valve with Gate Box
Item Code 701.9904	12x8 Tapping Sleeve & Tapping Valve with Gate Box
Item Code 713.8268	Adjust Curb Stop Box to Grade
Item Code 713.8269	Adjust Water Gate Boxes to Grade
Item Code 714.8163	Post Type Hydrant

Contract may use Push-on Joint Pipe if the Deflection Angle is less than or equal to 2.5 degrees with the approval of the Engineer. Any Deflection Angle greater than 2.5 degrees and all fittings shall be mechanical joint. Push-on Pipe will be paid for under the mechanical joint items that are being substituted:

Item Code 701.5406	6 Inch Ductile Iron Water Pipe Class 52, Mechanical Joint
Item Code 701.5408	8 Inch Ductile Iron Water Pipe Class 52, Mechanical Joint
Item Code 701.5412	12 Inch Ductile Iron Water Pipe Class 52, Mechanical Joint

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	00	REDRAWN	5/19/2003	



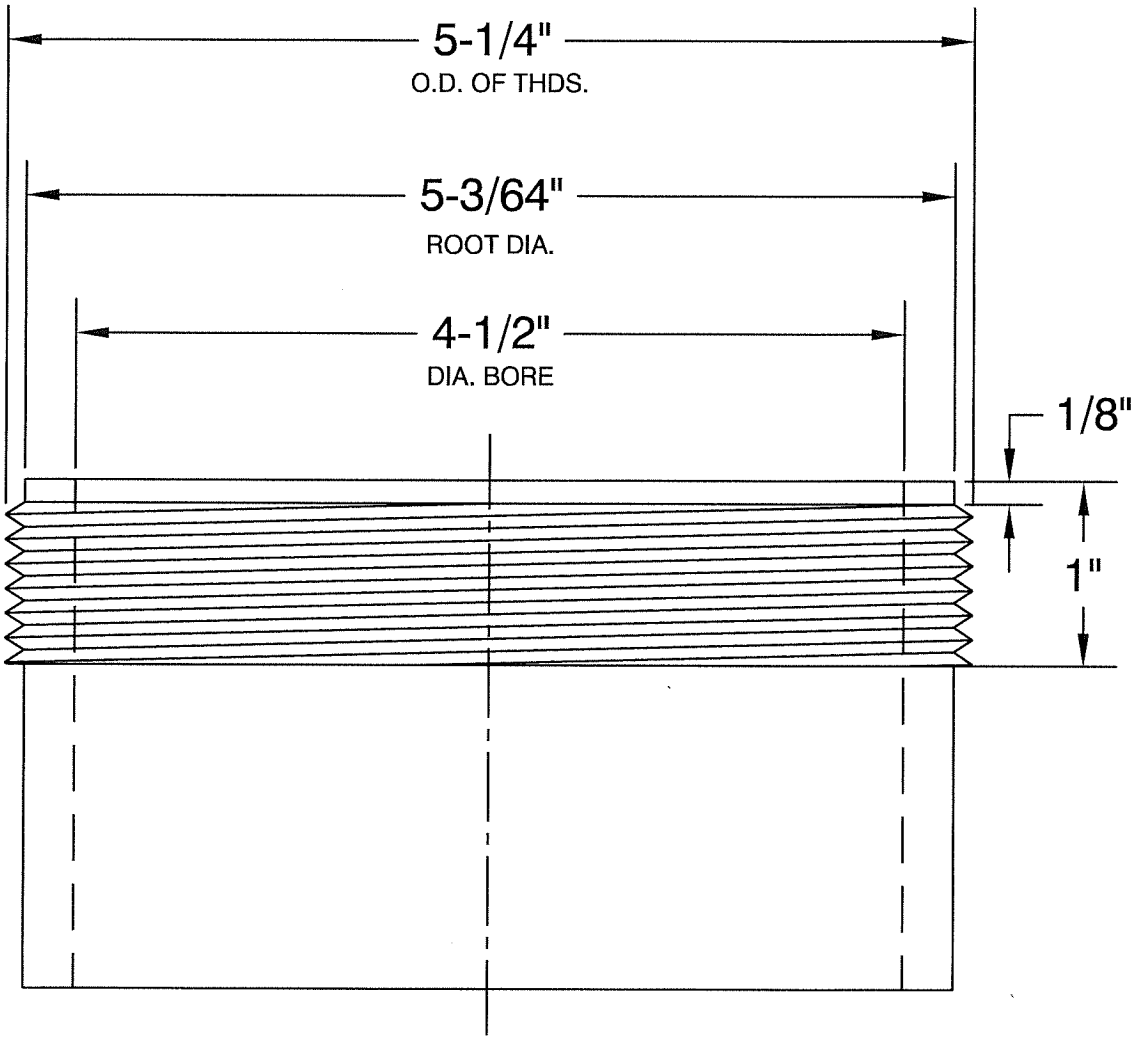
- THREAD DATA -
6 THDS. PER 1"
.167" PITCH
R. HAND
V - FORM

2-1/2" HOSE NOZZLE THREAD DETAIL

	CITY OF NEWPORT, RI DEPARTMENT OF PUBLIC WORKS WATER DIVISION			
	2-1/2" HOSE NOZZLE THREAD DETAIL			
DRAWN BY: *Jim Quinlan*	SIZE	FSCM NO.	DWG NO.	REV 00
	SCALE NONE		SHEET 1 OF 1	

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	00	REDRAWN	5/19/2003	

- THREAD DATA -
7-1/2 THDS. PER 1" .133" PITCH
R. HAND V - FORM



4-1/2" STEAMER NOZZLE THREAD DETAIL

	CITY OF NEWPORT, RI DEPARTMENT OF PUBLIC WORKS WATER DIVISION			
	4-1/2" STEAMER NOZZLE THREAD DETAIL			
DRAWN BY: *Jim Quinlan*	SIZE	FSCM NO.	DWG NO.	REV 00
	SCALE NONE		SHEET 1 OF 1	

CODE 701.9905
SANITARY SEWER BYPASS

DESCRIPTION. Under this item the Contractor is required to furnish all materials, labor, equipment, power, maintenance, etc. to implement a temporary pumping system for the purpose of diverting the existing flow around the work area.

The design, installation and operation of the temporary pumping system shall be the Contractor's responsibility. The bypass system shall meet the requirements of all codes and regulatory agencies having jurisdiction.

REQUIREMENTS FOR SUBMITTALS. The Contractor shall submit to the Engineer detailed plans and descriptions outlining all provisions and precautions to be taken by the Contractor regarding the handling of existing wastewater flows. This plan must be specific and complete, including such items as schedules, locations, elevations, capacities of equipment, materials and all other incidental items necessary and/or required to insure proper protection of the facilities, including protection of the access and bypass pumping locations from damage due to the discharge flows, and compliance with the requirements and permit conditions specified in these Contract Documents. No construction shall begin until all provisions and requirements have been reviewed by the Engineer.

The plan shall include but not be limited to details of the following:

- Staging areas for pumps;
- Sewer plugging method and types of plugs;
- Number, size, material, location and method of installation of suction piping;
- Number, size, material, method of installation and location of installation of discharge piping;
- Bypass pump sizes, capacity, number of each size to be on site and power requirements;
- Calculations of static lift, friction losses, and flow velocity (pump curves showing pump operating range shall be submitted);
- Standby power generator size, location;
- Downstream discharge plan;
- Method of protecting discharge manholes or structures from erosion and damage;
- Thrust and restraint block sizes and locations;
- Sections showing suction and discharge pipe depth, embedment, select fill and special backfill;
- Method of noise control for each pump and/or generator;
- Any temporary pipe supports and anchoring required;
- Design plans and computation for access to bypass pumping locations;
- Calculations for selection of bypass pumping pipe size;

- Schedule for installation of and maintenance of bypass pumping lines;
- Plan indicating selection location of bypass pumping line locations.

Equipment

- All pumps used shall be fully automatic self-priming units that do not require the use of foot-valves or vacuum pumps in the priming system. The pumps may be electric or diesel powered. All pumps used must be constructed to allow dry running for long periods of time to accommodate the cyclical nature of effluent flows.
- The Contractor shall provide the necessary stop/start controls for each pump.
- The Contractor shall include one stand-by pump of each size to be maintained on site. Back-up pumps shall be on-line, isolated from the primary system by a valve.
- Discharge Piping - In order to prevent the accidental spillage of flows all discharge systems shall be temporarily constructed of rigid pipe with positive, restrained joints. Under no circumstances will aluminum "irrigation" type piping or glued PVC pipe be allowed. Discharge hose will only be allowed in short sections and by specific permission from the engineer.

System Description (Design Requirements)

- Bypass pumping systems shall have sufficient capacity to pump a peak flow of peak flow, and temporary discharge piping to ensure that the total flow of the main can be safely diverted around the section to be repaired. Bypass pumping system will be required to be operated 24 hours per day.
- The Contractor shall have adequate standby equipment available and ready for immediate operation and use in the event of an emergency or breakdown. One standby pump for each size pump utilized shall be installed at the mainline flow bypassing locations, ready for use in the event of primary pump failure.
- Bypass pumping system shall be capable of bypassing the flow around the work area and of releasing any amount of flow up to full available flow into the work area as necessary for satisfactory performances of work.
- The Contractor shall make all arrangements for bypass pumping during the time when the main is shut down for any reason. System must overcome any existing force main pressure on discharge.
- The Contractor shall incorporate alarms signals for high water, pump failure and power loss into the bypass pumping system and provide alarm notification to the Contractor and the Town of Middletown Public Works Department in the event that a pump station failure occurs.

Performance Requirements

- It is essential to the operation of the existing sewerage system that there be no interruption in the flow of sewage throughout the duration of the project. To this end, the Contractor shall provide, maintain and operate all temporary facilities such as dams, plugs, pumping equipment (both primary and back-up units as required), conduits, all

necessary power, and all other labor and equipment necessary to intercept the sewage flow before it reaches the point where it would interfere with his work, carry it past his work and return it to the existing sewer downstream of his work.

- The design, installation and operation of the temporary pumping system shall be the Contractor's responsibility. The bypass system shall meet the requirements of all codes and regulatory agencies having jurisdiction.
- The Contractor shall provide all necessary means to safely convey the sewage past the work area. The Contractor will not be permitted to stop or impede the main flows under any circumstances.
- The Contractor shall maintain sewer flow around the work area in a manner that will not cause surcharging of sewers, damage to sewers and that will protect public and private property from damage and flooding.
- The Contractor shall protect water resources, wetlands and other natural resources.

Field Quality Control and Maintenance

- Test: The Contractor shall perform leakage and pressure tests of the bypass pumping discharge piping using clean water prior to actual operation. The engineer will be given 24 hours' notice prior to testing.
- Inspection: Contractor shall inspect bypass pumping system every two hours to ensure that the system is working correctly.
- Maintenance Service: The Contractor shall insure that the temporary pumping system is properly maintained and a responsible operator shall be on hand at all times when pumps are operating.
- Extra Materials:
    - Spare parts for pumps and piping shall be kept on site as required.
    - Adequate hoisting equipment for each pump and accessories shall be maintained on the site.

Preparation:

- Contractor is responsible for locating any existing utilities in the area the Contractor selects to locate the bypass pipelines. The Contractor shall locate his bypass pipelines to minimize any disturbance to existing utilities and shall obtain approval of the pipeline locations from the Town and the Engineer. All costs associated with relocating utilities and obtaining all approvals shall be paid by the Contractor.
- During all bypass pumping operation, the Contractor shall protect the Pumping Station and main and all local sewer lines from damage inflicted by any equipment. The Contractor shall be responsible for all physical damage to the Pumping Station and main and all local sewer lines caused by human or mechanical failure.

Installation and Removal:

- The Contractor shall remove manhole sections or make connections to the existing sewer and construct temporary bypass pumping structures only at the access locations and as may be required to provide adequate suction conduit.
- Plugging or blocking of sewage flows shall incorporate a primary and secondary plugging device. When plugging or blocking is no longer needed for performance and acceptance of work, it is to be removed in a manner that permits the sewage flow to slowly return to normal without surge, to prevent surcharging or causing other major disturbances downstream.
- When working inside manhole or force main, the Contractor shall exercise caution and comply with OSHA requirements when working in the presence of sewer gases, combustible or oxygen-deficient atmospheres, and confined spaces.
- The installation of the bypass pipelines is prohibited in all saltmarsh/wetland areas. The pipeline must be located off sidewalks. When the bypass pipeline crosses local streets and private driveways, the contractor must place the bypass pipelines in trenches and cover with temporary pavement. Upon completion of the bypass pumping operations, and after the receipt of written permission from the Engineer, the Contractor shall remove all the piping, restore all property to pre- construction condition and restore all pavement. The Contractor is responsible for obtaining any approvals for placement of the temporary pipeline within public ways from the Town.

METHOD OF MEASUREMENT. This item will not be measured for payment.

BASIS OF PAYMENT. "Sanitary Sewer Bypass" will be paid for at the respective contract unit price per "Lump Sum" as listed in the Proposal. These separate payments so stated constitutes full and complete compensation for all labor, materials, tools and equipment, temporary pumping system including fittings, submittals , plan, plugs, piping, bypass pumps, calculation, standby power generator, protection, thrust and restraint blocks, noise control, pipe supports and anchoring, back-up pumps, alarm signals, notification, testing, inspection, maintenance, spare parts, hoisting equipment temporary pavement, sawcutting, excavation (except trench rock excavation and excavation of unsuitable material below grade), sheeting, shoring, and bracing for excavation and backfill, laying, setting and joining pipe, temporary caps or plugs, removal of the temporary system(s) and other incidentals necessary to finish the work required, complete and accepted by the Engineer.