

February 9, 2012

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2011-CB-096
FEDERAL-AID PROJECT NO. FAP Nos: 3RD-PRTY(212), BRO-0383(002)

Natick Bridge No. 383

River St. Station 5+63 to East Ave. Station 18+00.
CITY/TOWN OF West Warwick, Warwick
COUNTY OF KENT

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. Bituminous Pavement on Bridge Structure

The bituminous pavement on the bridge structure to be included in the lump sum price for Item Code 800.9911 shall be comprised of 3" of Modified Class (9.5 mm) HMA, placed in two 1 1/2" layers.

B. Contract Documents

1. JS-Pages

a. Index Page JS-ii

Remove Index page JS-ii in its entirety and replace it with revised page JS-ii (R-1) attached to this Addendum No. 3. Item Code 401.99 "Modified Class (9.5 mm) HMA" has been added.

b. Page JS-44

Remove Page JS-44 (R-1) in its entirety and replace it with revised Page JS-44 (R-2) attached to this Addendum No. 3. The Basis of Payment has been revised.

c. Pages JS-54a through J-54c

Add new Pages JS-54a through JS-54c attached to this Addendum No. 3. Item Code 401.99 "Modified Class (9.5 mm) HMA" has been added.

C. Drawings/Plans - Change/Addition

1. Sheet 12

Modify the sheet as shown on Sketch No. 1 attached to this Addendum No. 3. The length of 10" water pipe has been revised.

D. Distribution of Quantities

1. Index Pages 1 through 4

Remove Index Pages 1 through 4 in their entirety and replace them with revised Index Pages 1 (R-1) through 4 (R-1) attached to this Addendum No. 3. The Table of Contents has been revised.

2. Page 26

Remove Page 26 in its entirety and replace it with revised Page 26 (R-1) attached to this Addendum No. 3. The Station Description and Quantity for the "East Ave" Location of Item Code 701.5210 "10 Inch Ductile Iron Pipe Class 52, Restrained Joint" have been revised.



RI Department of Transportation
Chief Engineer

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METHOD OF MEASUREMENT:

This item will not be measured for payment.

BASIS OF PAYMENT:

The accepted quantity of Item 208.9901 "WET SOIL STOCKPILE" will be paid for at the contract "Lump Sum" price as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, tools and equipment, and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

Partial payments for this Lump Sum item will be made in accordance with Special Provision Code 12.109.07.

CODE 401.99 MODIFIED CLASS (9.5 mm) HMA

DESCRIPTION:

Hot Mix Asphalt (HMA) shall conform to the requirements of the RI Standard Specifications for Road and Bridge Construction with the following exceptions and modifications.

MATERIALS:

1. Aggregate

The aggregate shall conform to the 3 to <10 million ESAL requirements of Table 5 in AASHTO M 323. No more than 10% of the aggregate shall be natural sand. All aggregate properties of Section M.03 shall apply.

2. Performance Graded Binder

The binder shall meet the requirements of PG 64-28, Grade V as specified in AASHTO M 320 and MP 19. It shall have a minimum elastic recovery of 65% at 10°C when tested in accordance with AASHTO T 301.

3. Mix Design

HMA mixes shall conform to AASHTO M 323, "Standard Specification for Superpave Volumetric Mix Design". The design procedure shall follow AASHTO R 35 "Standard Practice for Superpave Volumetric Design for Hot-Mix Asphalt (HMA)". The design specifications found in AASHTO M 323 shall supersede those found in the Standard Specifications for Road and Bridge Construction. A mix design using PG64-28 shall be used to determine the design binder content. The following specific requirements and exceptions to AASHTO M 323 shall apply.

- a. N_{initial} shall be 6, N_{design} shall be 50 and N_{max} shall be 75 gyrations.
- b. A moisture susceptibility test will not be required.
- c. The mix shall be designed at 4% voids.
- d. The VMA shall be greater than or equal to 16.5.
- e. The VFA shall be 70 to 80 percent.

- f. The mix shall be coarse graded as defined in Section 6.1.3 of AASHTO M 323.
- g. The dust to binder ratio ($P_{0.075}/P_{be}$), 0.5 – 1.0. The design effective binder content shall be used to calculate this ratio.
- h. No RAP will be allowed in the mix.

In addition to the sieves listed in Table 3 of AASHTO M 323, the 0.600 mm, 0.300 mm and 0.150 mm sieves will be required. The 50.0 mm and 37.5 mm sieves will not be required.

The following procedures shall be adhered to for the mix design:

- Three trial blends shall be submitted and approved before beginning the mix design procedure.
- All trial mixture data and calculations determined for Section 9 of AASHTO R 35 shall be submitted to the Engineer. The Engineer will determine which trial mixture shall be used for the mix design procedure.
- After the mix design is completed it shall be submitted to the Engineer for approval.

The gyratory cores and Rice (AASHTO T 209) samples at the design binder content shall be submitted to the Engineer.

A successful plant trial batch shall be performed before production of the HMA begins.

CONSTRUCTION METHODS:

1. Plant Laboratory

In addition to the requirements of Section 930, the Contractor provided lab shall be equipped with the following:

Gyratory compactor conforming to AASHTO T 312 and two molds.

All equipment required to determine the theoretical maximum specific gravity in accordance with AASHTO T 209 Test Method A and Section 13.1. A metal pycnometer and electronic digital vacuum gauge shall also be provided.

All sieves required for the mix design process.

Facilities and equipment to perform a wet-wash in accordance with AASHTO T-30 and a faucet spray hose shall be provided.

2. Mix Production

The following mix production tolerances shall apply:

- a. The air voids (V_a) shall be 3.0 – 5.0 percent.
- b. The voids in mineral aggregate (VMA) shall be 16.5% minimum.
- c. The percent passing the #200 sieve shall be greater than or equal to 2.0%.

The following tolerances for gradation shall apply:

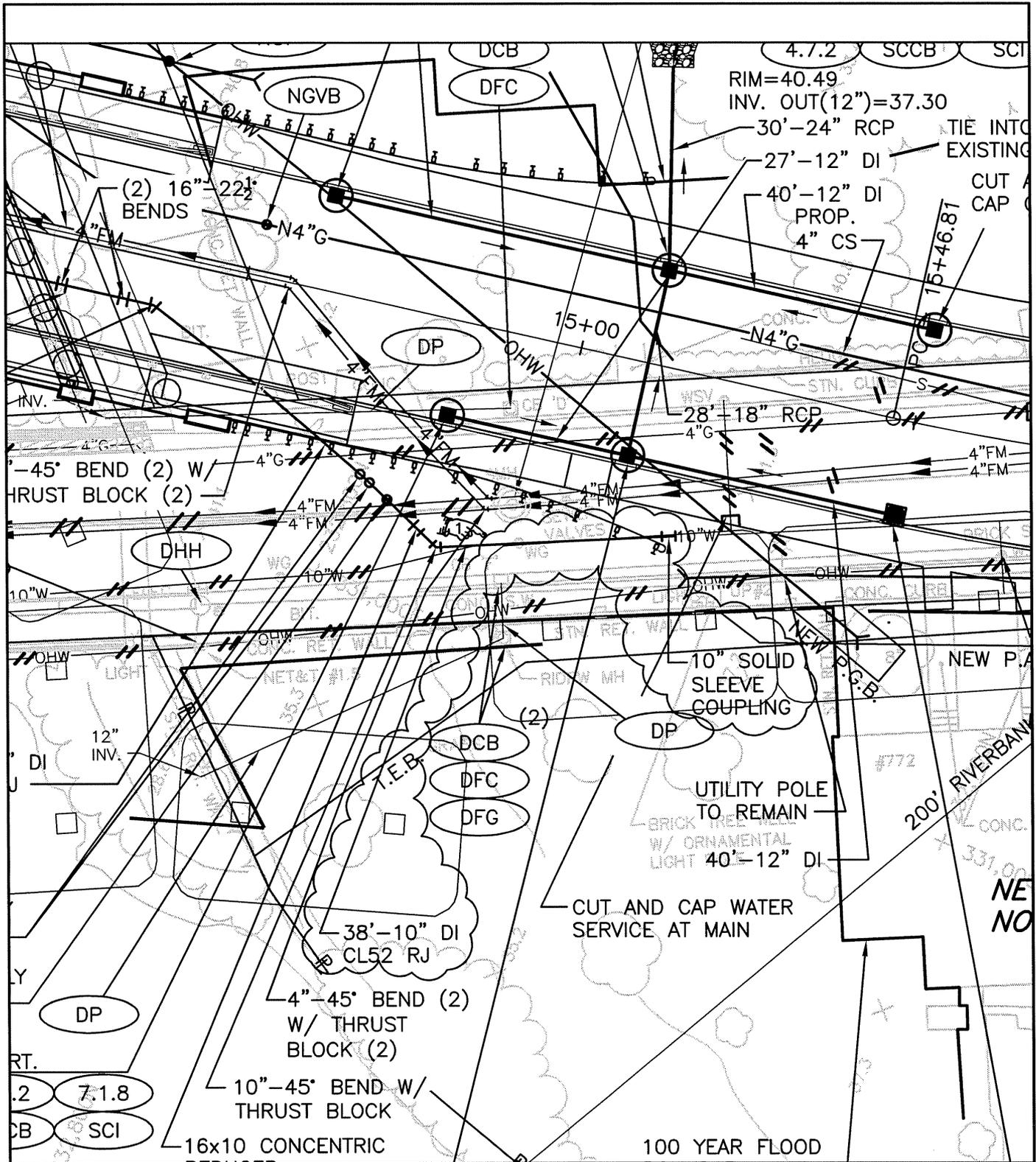
12.5mm	100%
9.5mm	85% - 100%
4.75mm	90% max
2.36mm	Established by the mix design \pm 5%

METHOD OF MEASUREMENT:

This item will not be measured for payment.

BASIS OF PAYMENT:

No separate payment will be made for this item. Costs for this item will be included in the lump sum bid prices of the appropriate items as listed in the Proposal.



COMMONWEALTH
 ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RI 02908

TITLE OF SKETCH
**DRAINAGE AND UTILITY
 PLAN NO. 2**

R.I. Contract No.
2011-CB-096

Sketch No.
1

FEBRUARY 9, 2012

ADDENDUM NUMBER 3

Revision to Sheet No. 12

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				Item 701.0418 Total:		28.00
057	701.0424	REINFORCED CONCRETE PIPE M 170	LF			
		CLASS III 24 INCH				
		EAST AVE				
		15+04 - 15+10, LT		30.00	0004	01
				Item 701.0424 Total:		30.00
058	701.5210	10 INCH DUCTILE IRON WATER PIPE	LF			
		CLASS 52, RESTRAINED JOINT				
		EAST AVE				
		14+83 - 15+19, RT		38.00	0004	01
		RIVER ST				
		11+35 - 11+42, RT		10.00	0004	01
		81+25 LT		5.00	0004	01
				Item 701.5210 Total:		53.00
059	701.5216	16 INCH DUCTILE IRON WATER PIPE	LF			
		CLASS 52, RESTRAINED JOINT				
		EAST AVE				
		14+31, RT - 14+82, RT		56.00	0044	04
		RIVER ST				
		11+43 - 12+14, RT		79.00	0044	04
				Item 701.5216 Total:		135.00
060	701.6008	8 INCH DUCTILE IRON SEWER SAFE	LF			
		PIPE CLASS 52				
		RIVER ST				
		10+80, RT - 12+00, CL		120.00	0004	01
				Item 701.6008 Total:		120.00