

September 14, 2012

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2012-CH-079
FEDERAL-AID PROJECT NO. FAP Nos: STP-DRNG(029)

Statewide Drainage Improvements 2012 C-3

POST RD. AT DONALD AVE - WARWICK; POST RD. AT FAIRFAX DRIVE - WARWICK; COWESETT AVE.
AT BLDG. 305; DIVISION ST. AT HOUSE NO. 470
CITY/TOWN OF Warwick, East Greenwich, West Warwick
COUNTY OF KENT

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 1 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. Contract Dates

1. Bid-Opening Date
Bid-Opening Date Updated To "09/26/2012".

B. Contract Documents

1. Specifications - Job Specific
 - a. Delete Index Page JS-i in its entirety and insert revised Index Page JS-i(R-1) attached to this Addendum No. 1. Class 19.0 and 12.5 Hot Mix Asphalt specs have been added.
 - b. Insert new pages JS-13 through JS-15 attached to this Addenda No. 1. Class 19.0 Hot Mix Asphalt spec has been added.
 - c. Insert new pages JS-16 through JS-18 attached to this Addenda No. 1. Class 12.5 Hot Mix Asphalt spec has been added.

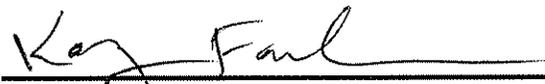
C. Distribution of Quantities

1. Index Pages
 - a. Delete Index Pages 1 and 2 in their entirety and insert revised Index Page 1(R-1) and Index Page 2 (R-1) attached to this Addendum No. 1. Item codes 401.9901 and 401.9902 have been renamed.
 - b. Delete Page 3 in its entirety and insert revised Page 3(R-1) attached to this Addendum No. 1. Items 9 and 10 have been renamed.

D. Proposal Addition/Deletion

1. Completion Dates

- a. Delete P-10 in its entirety and insert revised P-10(R-1) attached to this Addendum No. 1. The Bid Opening Date has changed.



RI Department of Transportation
Chief Engineer

SPECIFICATIONS/JOB SPECIFIC**INDEX**

<u>Item Code</u>	<u>Title</u>	<u>Page</u>
108.03	Prosecution and Progress	JS-1
108.1000	Prosecution and Progress	JS-2
212.1000	Maintenance and Cleaning of Erosion And Pollution Controls	JS-3
	Oil/Water Separator Hoods	JS-4
904.9901	Exposed Aggregate Portland Cement Concrete Sidewalk	JS-6
906.9901	Landscape Boulder	JS-10
937.1000	Maintenance and Movement of Traffic Protective Devices	JS-11
938.1000	Price Adjustments	JS-12
401.9901	Class 19.0 Hot Mix Asphalt	JS-13
401.9902	Class 12.5 Hot Mix Asphalt	JS-16

**Class 19.0 Hot Mix Asphalt
Special Provision 401.9901**

xxx.01 Description.

Class 19.0 shall conform to the requirements of the RI Standard Specifications for Road and Bridge Construction with the following exceptions and modifications.

xxx.02 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 64-22, Grade S as specified in AASHTO M 320 and MP 19. Table 2 of AASHTO M 323 shall be used to determine any changes to the binder grade due to the addition of RAP.

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 PG64-22 Grade S shall be used to determine the design binder content. The VMA and $VMA_{\text{effective}}$ shall be calculated for each asphalt content during the mix design process. The following specific requirements and exceptions to AASHTO M 323 shall apply.

- a. Mixes shall be designed with a 0%, 10%, 15%, 20% or 25% RAP content.
- b. N_{initial} shall be 6, N_{design} shall be 50 and N_{max} shall be 75 gyrations.
- c. A moisture susceptibility test will not be required.
- d. The mix shall be designed at 4% voids.
- e. The VMA shall be greater than or equal to 14.5%.
- f. The VFA shall be 70 to 80 percent.
- g. The mix shall be coarse graded as defined in Section 6.1.3 of AASHTO M 323.

- h. The dust to binder ratio ($P_{0.075}/P_{be}$) shall be 0.5 – 1.0. The design effective binder content shall be used to calculate this ratio.
- i. 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 accepted 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 acceptance.

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.

xxx.03 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

Samples will be taken at the plant every 600 tons. The following mix production tolerances shall apply:

- a. The production air voids (V_a) shall be 3.0 – 5.0 percent.
- b. The voids in mineral aggregate (VMA) shall be 14.5% minimum.

The following tolerances for gradation shall apply:

25.0mm	100%
19.0mm	90% - 100%
12.5mm	90% max
2.36mm	Established by the mix design \pm 5%
0.075mm	Greater than or equal to 2.0%

In-place density shall be 92% of the theoretical maximum density obtained at the plant.

xxx.04 Method of Measurement.

Subsection 401.04 of the RI Standard Specifications for Road and Bridge Construction will be used as the method of measurement.

xxx.05 Basis of Payment.

Subsection 401.05 of the RI Standard Specifications for Road and Bridge Construction will be used as the basis of payment.

**Class 12.5 Hot Mix Asphalt
Special Provision 401.9902**

xxx.01 Description.

Class 12.5 shall conform to the requirements of the RI Standard Specifications for Road and Bridge Construction with the following exceptions and modifications.

xxx.02 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 S as specified in AASHTO M 320 and MP 19.

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 Grade S shall be used to determine the design binder content. The VMA and $VMA_{\text{effective}}$ shall be calculated for each asphalt content during the mix design process. 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 15.5%.
- 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 ($P_{0.075}/P_{be}$) shall 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.
- i. 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 accepted 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 acceptance.

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.

xxx.03 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

Samples will be taken at the plant every 600 tons. 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 15.5% minimum.
- c. The percent passing the #200 sieve shall be 2.0% minimum.

The following tolerances for gradation shall apply:

19.0mm	100%
12.5mm	90% - 100%
9.5mm	90% max
2.36mm	Established by the mix design $\pm 5\%$
0.075mm	Greater than or equal to 2.0%

In-place density shall be 92% of the theoretical maximum density obtained at the plant.

xxx.04 Method of Measurement.

Subsection 401.04 of the RI Standard Specifications for Road and Bridge Construction will be used as the method of measurement.

xxx.05 Basis of Payment.

Subsection 401.05 of the RI Standard Specifications for Road and Bridge Construction will be used as the basis of payment.

Table of Contents - Distribution of Quantities

Project Name - Statewide Drainage Improvements 2012 C-3

Estimate Name - Addendum No

R.I. Contract No. - 2012-CH-079

FAP Nos: STP-DRNG(029)

ItemCode	Description	Page
201.0403	REMOVE AND DISPOSE SIDEWALKS	1
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	1
201.0410	REMOVE AND DISPOSE CATCH BASINS	1
201.0414	REMOVE AND DISPOSE PIPE - ALL SIZES	1
201.0428	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER	2
202.0800	GRAVEL BORROW	2
204.0100	TRIMMING AND FINE GRADING	2
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	3
401.9901	CLASS 19.0 HOT MIX ASPHALT	3
401.9902	CLASS 12.5 HOT MIX ASPHALT	3
403.0300	ASPHALT EMULSION TACK COAT	4
601.0200	CLASS XX PORTLAND CEMENT CONCRETE	4
603.1000	CONTROLLED LOW STRENGTH MATERIAL	4
701.5312	12 INCH DUCTILE IRON WATER PIPE CLASS 52, PUSH-ON JOINT	4
701.5318	18 INCH DUCTILE IRON WATER PIPE CLASS 52, PUSH-ON JOINT	5
702.0516	FRAME AND GRATE, HIGH CAPACITY, STANDARD 6.3.4	5
702.0517	FRAME AND GRATE, STANDARD 6.3.2	5
702.0521	FRAME AND COVER STANDARD 6.2.0	5
702.0723	SOLID BLOCK SHALLOW 5'-0" SQUARE CATCH BASIN STANDARD 3.5.1	5
702.0880	CONCRETE COVER SHALLOW 5'-0" SQUARE CATCH BASINS STANDARD 4.8.3	5
904.0101	REMOVE AND RESET FENCE AND/OR RAILING CHAIN LINK	6
904.9901	EXPOSED AGGREGATE PORTLAND CEMENT CONCRETE SIDEWALK	6
905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0	6
905.0115	PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD 43.5.0	6
906.0120	GRANITE WHEELCHAIR RAMP CURB STANDARDS 7.3.3, 43.3.0 AND 43.3.1	6
906.0602	BITUMINOUS BERM STANDARD 7.5.1	7
906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	7
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932.0100	CUTTING AND MATCHING ASPHALT	9
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937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	11
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L02.0102	RESIDENTIAL SEEDING (TYPE 2)	11
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T13.1000	TRAFFIC DETECTORS-LOOP, STANDARD 19.6.0	12
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Distribution of Quantities

Project Name - Statewide Drainage Improvements 2012 C-3

Estimate Name - Addendum No

R.I. Contract No. - 2012-CH-079

FAP Nos: STP-DRNG(029)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
007	204.0100	Cont. PIPE TRENCHES/SW AREAS/PAVEMENT AREAS: (200'X12')/9		300.00	0006	01
Item 204.0100 Total:				585.00		
008	212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS PROJECT WIDE SEE PLAN	LS			
				1.00	0006	01
Item 212.2000 Total:				1.00		
009	401.9901	CLASS 19.0 HOT MIX ASPHALT COWESETT AVE 35 SY/4.35 SY/TON(4") POST RD AT DONALD AVE ROADS: 180 SY/4.35 SY(4")/TON + BACK SY/TON SW/EASEMENT: 55 SY(4")/4.35 POST RD AT FAIRFAX LEVELING: CLASS 19(5"): (300'X4')9 / 3.48 SY/TON	TON			
				8.00	0006	01
				55.00	0006	01
				40.00	0006	01
Item 401.9901 Total:				103.00		
010	401.9902	CLASS 12.5 HOT MIX ASPHALT DIVISION ST. APRONS(55 SY/4.35 SY/TON (4")) + BIT. BERM (116 SY/5.8 SY/TON(3")) POST RD AT DONALD AVE ROADS: 180 SY/8.70 SY/TON(2")	TON			
				33.00	0006	01
				21.00	0006	01

Revised: 2/19/2002

Total or gross sum of bid for Rhode Island Contract Number: 2012-CH-079

Federal-Aid Project Number(s): STP-DRNG(029)

WRITTEN IN WORDS:

The undersigned bidder declares that this Proposal is made without connection with any other person or persons making proposals for the same work, and is in all respects fair and without collusion or fraud. The undersigned bidder submits herewith, a proposal guarantee in the form of a bid bond in favor of the State of Rhode Island in the amount of 5% of the total or gross sum of the bid and agrees and consents that the proposal guarantee shall be forfeited to the State as liquidated damages if the required contract agreement and contract bond are not executed within ten(10) days of the notice of award. All surety companies must be listed with The Department of the Treasury, Fiscal Services, Circular 570, (Latest Revision published by The Federal Register). The State reserves the right to retain the surety of all bidders until the successful bidder enters into the Contract or until such time as the award or cancellation of the Contract is announced at which point Sureties will be returned to all bidders by the State of Rhode Island, Office of Purchases. The undersigned bidder further agrees, if awarded the contract on this proposal, to begin work within ten (10) calendar days after the date of execution of the contract unless otherwise specified under special provisions or permitted by the Engineer, and further agrees to complete the work on or before the dates outlined in the Contract Documents.

COMPLETION DATE(S)

DESCRIPTION	DATE
Substantial Completion Date	May 15, 2013
Bid-Opening Date	September 26, 2012
Advertise Date	August 29, 2012

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING:

ADDENDA	DATE POSTED	DOCUMENT(S)	PAGE
NO.1		1. Status Certification for: Debarment, Eligibility, Indictments, Convictions or Civil Judgements	1
		2. Anti-Collusion Certificate	2
		4. DBE Affirmative Action Certification	3 - 9
		3. Disclosure of Lobbying Activities	