

August 27, 2012

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2012-CB-060
FEDERAL-AID PROJECT NO. FAP Nos: BHO-0618(001)

Bridge Preservation-Contract 1

I-95: South County Freeway Bridge No. 686 to Pawtuxet River Bridge No. 680

CITY/TOWN OF Warwick, Cranston

COUNTY OF KENT, PROVIDENCE

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. Specification Change/Addition

1. Pages JS-i, JS-ii and JS-iii

Remove pages JS-i and JS-ii in their entirety and replace them with revised pages JS-i (R-1), JS-ii (R-1) and add new page JS-iii attached to this Addendum No. 1. Code 817.9901 "REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING MORTAR)", Code 817.9902 "REPAIRS TO STRUCTURAL CONCRETE MASONRY (FORM AND CAST IN PLACE)" and Code 829.9910 "BRIDGE SCUPPER & DOWNSPOUT REPAIRS" have been added.

2. Page JS-23a

Add new page JS-23a attached to this Addendum No. 1. Code 817.9901 "REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING MORTAR)" has been added.

3. Pages JS-23b, 23c and 23d

Add new pages JS-23b, JS-23c and JS-23d attached to this Addendum No. 1. Code 817.9902 "REPAIRS TO STRUCTURAL CONCRETE MASONRY (FORM AND CAST IN PLACE)" has been added.

4. Page JS-37

Remove page JS-37 in its entirety and replace it with revised page JS-37 (R-1) attached to this Addendum No. 1. Method of Measurement and Basis of Payment sections have been revised.

5. Page JS-42a

Add new page JS-42a attached to this Addendum No. 1. Code 829.9910 "BRIDGE SCUPPER & DOWNSPOUT REPAIRS" has been added.

B. Drawings/Plans - Change/Addition

1. Sheet No. 7 – Bridge General Notes Sheet 1

Modify the Materials - Concrete Strengths to include Self Consolidating High Performance (SCC) (HP) as shown in Sketch No. 1 attached to this Addendum No. 1.

Modify Note 1 of Concrete Notes as shown in Sketch No. 1 attached to this Addendum No. 1.

Modify the Concrete Rehabilitation details of this sheet as shown in Sketch No. 2 attached to this Addendum No. 1.

2. Sheet No. 9 – Bridge General Notes Sheet 3

Modify this sheet as shown in Sketch No. 3 attached to this Addendum No. 1. to include Bridge Scupper & Downspout Repair Notes

3. Sheet No. 45 – Expansion Joint Details at Abutments

Modify Note 5 of this sheet as shown in Sketch No. 4 attached to this Addendum No. 1.

C. Distribution of Quantities

1. Index Pages 1 & 2

Remove Index Pages 1 & 2 in their entirety and replace them with revised Index Pages 1 (R-1) & 2 (R-1) attached to this Addendum No. 1. The Index has been revised.

2. Page 5

Remove Page 5 in its entirety and replace it with revised Page 5 (R-1) attached to this Addendum No. 1. Item Code 808.0508 "CONCRETE SUBSTRUCTURE CLASS XX ¾" APPROACH SLABS" has been revised.

3. Page 10

Remove Page 10 in its entirety and replace it with revised Page 10 (R-1) attached to this Addendum No. 1. Item Code 817.2110 "REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING MORTAR)" has been deleted.

4. Page 24

Remove Page 24 in its entirety and replace it with revised Page 24 (R-1) attached to this Addendum No. 1. Page numbering has changed from 24 of 24 to 24 of 27.

5. Pages 25-27

Add new Pages 25-27 attached to this Addendum No. 1. Item Codes 808.9910 "CONCRETE SUBSTRUCTURE CLASS HP ¾" APPROACH SLAB HAUNCH", 817.9901 "REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING MORTAR)", 817.9902 "REPAIRS TO STRUCTURAL CONCRETE MASONRY (FORM AND CAST IN PLACE)", and 829.9910 "BRIDGE SCUPPER & DOWNSPOUT REPAIRS" have been added.

A handwritten signature in black ink, appearing to read "Kay Faulk". The signature is written in a cursive style with a long horizontal stroke at the end.

RI Department of Transportation
Chief Engineer

SPECIFICATIONS – JOB SPECIFIC

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CODE 817.9901

REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING MORTAR)

DESCRIPTION:

- Division 8, Section 817 of the Standard Specifications for Road and Bridge Construction is amended for this contract as follows:

Sections 817.04 METHOD OF MEASUREMENT and 817.05 BASIS OF PAYMENT, replace CUBIC FEET with SQUARE FEET.

CODE 817.9902

REPAIRS TO STRUCTURAL CONCRETE MASONRY (FORM AND CAST IN PLACE)

DESCRIPTION:

The work included under this code shall consist of making vertical patch repairs to structure concrete masonry (substructure faces) by removing and disposing existing deteriorated concrete, preparing bonding surfaces, furnishing and placing formwork at the repair surfaces, and casting-in-place new self consolidating (SCC) high performance (HP) concrete repair patches. All work will be to the lines and grades specified and at the locations indicated on the Plans or as directed by the Engineer, and all work shall be in accordance with the applicable provisions of Section 817 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition. This Special Provision is intended to apply to visibly spalled concrete areas where the depth of the repair extends beyond the reinforcing steel. The Engineer shall be the sole judge in determining the repair locations. All repairs shall be performed only as directed by the Engineer.

MATERIALS:

Concrete: The concrete shall be self consolidating (SC) high performance (HP) concrete with a maximum aggregate size of 3/8 inch and a maximum water/cement ratio of 0.36. It shall be air entrained (AE), and it shall conform to all applicable sections of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition Section 601 "PORTLAND CEMENT CONCRETE", Section 604 "CLASS HP (AE) PORTLAND CEMENT CONCRETE", and Section 606 "SELF CONSOLIDATION CONCRETE (SCC)" including the latest supplemental specifications. The mix design shall be submitted in advance to the RIDOT Materials Section for approval, with sufficient time for evaluation. Trail batches will be required to verify the requisite properties, including air content, strength, flowability and lack of mix segregation.

Bonding Agent: The bonding agent shall conform to Section 817.02.04 of the Standard Specifications.

Reinforcement: Bar reinforcing steel shall conform to the requirements of subsection M.05.01 of the Rhode Island Standard Specifications, and wire mesh reinforcement shall conform to the requirements of subsection M.05.02. All reinforcement shall be epoxy coated in conformance with subsection M.05.05 or galvanized in conformance with subsection M.05.06.

CONSTRUCTION METHODS:

All surface preparation shall conform to the requirements of Section 817.03.1 of the Rhode Island Standard Specifications, except that the (moisture) condition of the mating surfaces shall be in accordance with the manufacturer's requirements for the bonding agent.

The Contractor shall be aware of the contact time, as per the manufacturer's recommendation after the placement of the bonding agent, and shall perform the necessary coordination between the associated construction activities, primarily the surface preparation, the erection of forms, and the delivery and placement of concrete. The Contractor shall take measures to ensure that the contact time is not exceeded. If the contact time is exceeded, the bonding agent shall be re-applied in accordance with the manufacturer's recommended procedures for reapplication.

Placement of reinforcing shall be in accordance with Section 817.03.02 of the Standard Specifications.

Application of Form and Cast-in-Place Concrete shall be in accordance with latest revision of Section 817.03.4b and 817.03.05 of the Standard Specifications including supplements.

Concreting procedures will be performed by personnel experienced with the placement of SCC mixes.

All repair areas shall be adequately formed to contain the proposed SCC HP concrete material, and all resulting holes from the required form fasteners shall be properly filled with an approved cementitious material. Special care shall be taken so that the form is properly sealed against leaks, since the SCC concrete is more fluid than standard mixes. If applicable, the pours shall be made in 3 to 5 foot lifts, and the Contractor shall allow adequate curing time for individual lifts before the forms are stripped and before subsequent lifts are formed and placed. Excessive surface voids indicate a problem with the mix and/or placement. If such voids are observed when stripping a form, placement of the SCC HP mix will cease until the problem is identified and corrected to the satisfaction of the Engineer.

The consolidation shall be performed by appropriate equipment and methods at the approval of the Engineer. Note that minimal vibration should be required to properly consolidate the mix and excessive vibration may cause segregation.

All work shall be performed in accordance with the Maintenance and Protection of Traffic Plans shown on the Contract Drawings and the restrictions indicated on the TMP and the CS Pages of the Contract Documents.

METHOD OF MEASUREMENT:

The quantity of "Repairs to Structural Concrete Masonry (Form and Cast in Place)" will be measured and paid for by the "Square Foot" of new concrete actually placed in accordance with the Rhode Island Standard Specifications, this Special Provision and/or as directed by the Engineer.

BASIS OF PAYMENT:

The accepted quantity of "Repairs to Structural Concrete Masonry (Form and Cast in Place)" will be paid for at the contract price per "Square Foot" as designated in the Proposal. This payment shall constitute full compensation for furnishing all materials (including: self consolidating high performance concrete, water-based bonding agent, bar reinforcement, forming materials, and all miscellaneous inserts, anchors and hardware), all labor, equipment, tools, concrete removal, surface preparation of concrete and steel reinforcing to accept the new concrete, and all other incidentals necessary to remove and dispose the existing deteriorated concrete, to prepare the existing surfaces, to form and cast-in-place the new concrete patches, to properly finish the work, and to finish the surface of the repair area with a final finish, complete and accepted by the Engineer.

detailed such that the head of the bolts are flush with the top of temporary plate. Shop drawings shall be prepared by a registered professional engineer.

The entire traffic plate system shall be dismantled after the completion of the work and any bolt holes in the deck repaired using an approved non-shrink grout to the satisfaction of the Engineer. The steel plates shall become the property of the Contractor.

METHOD OF MEASUREMENT:

The quantity "TEMPORARY TRAFFIC PLATE – Bridge No. 618", "TEMPORARY TRAFFIC PLATE – Bridge No. 682", "TEMPORARY TRAFFIC PLATE – Bridge No. 685", and "TEMPORARY TRAFFIC PLATE – Bridge No. 686", will be measured for payment by the unit "Lump Sum" and shall include temporary traffic plates at all locations for this project, in accordance with the contract drawings, this Special Provision, and/or as directed by the Engineer.

BASIS OF PAYMENT:

The accepted quantity "TEMPORARY TRAFFIC PLATE – Bridge No. 618", "TEMPORARY TRAFFIC PLATE – Bridge No. 682", "TEMPORARY TRAFFIC PLATE – Bridge No. 685", and "TEMPORARY TRAFFIC PLATE – Bridge No. 686" will be paid for by the Lump sum as designated in the Proposal. This payment shall constitute full compensation for all labor, tools materials, equipment, and all other incidentals necessary to properly finish the work, complete and accepted by the Engineer.

CODE 829.9910

BRIDGE SCUPPER & DOWNSPOUT REPAIRS

DESCRIPTION:

The work under this item shall consist of repairing or replacing damaged bridge drainage components including, but not limited to, scupper grates, downspout piping, elbows, fittings, and hangers, in accordance with this Special Provision or as directed by the Engineer.

MATERIALS:

Refer to **SECTIONS 829 and 835** of the "Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction" for material specifications.

CONSTRUCTION METHODS:

Refer to **SECTIONS 829 and 835** of the "Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction" for construction methods.

METHOD OF MEASUREMENT:

The quantity of "BRIDGE SCUPPER & DOWNSPOUT REPAIRS" will be measured for payment by the actual cost, verified by paid invoices.

BASIS OF PAYMENT:

The accepted quantity of "BRIDGE SCUPPER & DOWNSPOUT REPAIRS" will be paid for at the actual amount expended to complete the required repairs, as determined by the Engineer. The estimated dollar figure for this item of work is established by the Department and as extended in the proposal is an authorized amount from which payments will be drawn.

MATERIALS

STRUCTURAL STEEL:

- AASHTO DESIGNATION M 270, GRADE 36
- AASHTO DESIGNATION M 270, GRADE 50

REINFORCING STEEL:

- AASHTO DESIGNATION M 31, GRADE 60

CONCRETE STRENGTHS:

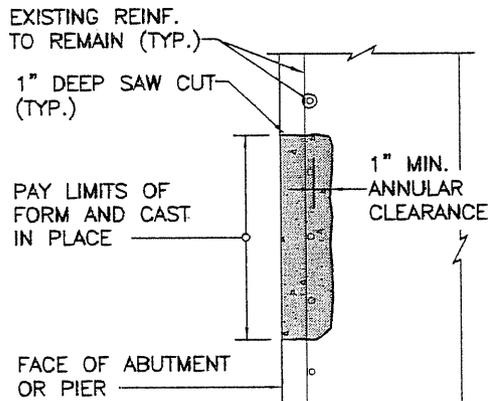
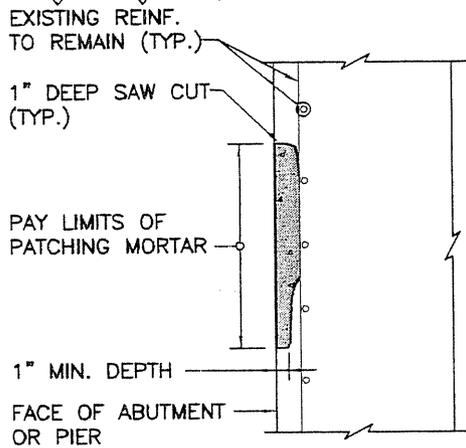
- CLASS HP ¾" f_c=5,000 PSI BACKWALLS, BRIDGE DECK, APPROACH SLAB HAUNCH
- CLASS XX ¾" f_c=4,000 PSI APPROACH SLABS
- SELF CONSOLIDATING HIGH PERFORMANCE (SCC) (HP) f_c=5,000 PSI (28 DAYS) ABUTMENT FACES, WINGWALL FACES AND PIER FACES



CONCRETE NOTES

1. CLASSES OF CONCRETE SHALL BE HIGH PERFORMANCE CLASS HP, SELF CONSOLIDATING HIGH PERFORMANCE (SCC) (HP) AND CLASS XX, AS DESCRIBED IN THE RI STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS OF THE SPECIFICATIONS. REFER TO THE "MATERIAL" NOTES FOR CLASSES OF CONCRETE SPECIFIED FOR VARIOUS COMPONENTS.
2. THE CONTRACTOR MAY, AT THE APPROVAL OF THE ENGINEER, PROPOSE THE USE OF SELF-CONSOLIDATING CONCRETE FOR ANY CLASS OF CONCRETE ON THIS PROJECT. SECTION 606 "SELF CONSOLIDATING CONCRETE (SCC)", CONTAINS THE REQUIREMENTS FOR MODIFYING ALL CLASSES OF CONCRETE MIX DESIGN FOR SELF-CONSOLIDATING APPLICATIONS.

COMMONWEALTH ENGINEERS & CONSULTANTS, INC. 400 SMITH STREET PROVIDENCE, RI 02908	TITLE OF SKETCH BRIDGE GENERAL NOTES SHEET 1	R.I. Contract No. 2012-CB-060	Sketch No. 1
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NOTE:
 THIS REPAIR APPLIES TO AREAS WHERE NO MORE THAN ONE-HALF OF THE REBAR SURFACE IS EXPOSED, AND SURROUNDING CONCRETE IS SOUND. REFER TO CONCRETE REHABILITATION NOTES ON BRIDGE GENERAL NOTES SHEET 1.

NOTE:
 THIS REPAIR APPLIES TO AREAS WHERE MORE THAN ONE-HALF OF THE REBAR SURFACE IS EXPOSED. BARS HAVING LOST 1/4 OR MORE OF THEIR ORIGINAL DIAMETER SHALL BE SUPPLEMENTED BY NEW BARS PLACED PARALLEL TO EXISTING REINFORCING. REFER TO CONCRETE REHABILITATION NOTES ON BRIDGE GENERAL NOTES SHEET 1.

REPAIR DEPTH TO REINFORCEMENT
 (CODE 817.9901)

REPAIR DEPTH BEYOND REINFORCEMENT
 (CODE 817.9902)

NOTES:

1. REPAIRS TO STRUCTURAL CONCRETE MASONRY SHALL BE LIMITED TO VISIBLY DETERIORATED SUBSTRUCTURE CONCRETE ONLY, AS DIRECTED BY THE ENGINEER. HAMMERSOUNDING OF ALL SUBSTRUCTURE SURFACES IS NOT REQUIRED
2. REPAIRS TO STRUCTURAL CONCRETE MASONRY SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT UNDER ITEM CODES 817.9901 & 817.9902 BASED ON ACTUAL SUBSTRUCTURE SURFACE AREA REPAIRED COMPLETE AND ACCEPTED BY THE ENGINEER.

REPAIRS TO STRUCTURAL CONCRETE MASONRY
 NOT TO SCALE



<p>COMMONWEALTH ENGINEERS & CONSULTANTS, INC. 400 SMITH STREET PROVIDENCE, RI 02908</p>	<p>TITLE OF SKETCH BRIDGE GENERAL NOTES SHEET 1</p>	<p>R.I. Contract No. 2012-CB-060</p>	<p>Sketch No. 2</p>
<p>AUGUST 27, 2012</p>	<p>ADDENDUM NUMBER 1</p>	<p>Revision to Sheet No. 7</p>	

SEQUENCE OF PAVING BRIDGES NOTES:

1. FOR BRIDGE No. 618, 619, 632, 633, 639, 681, 682, 683, 684, 685 & 686 THE PAVEMENT ON THE STRUCTURE SHALL BE REMOVED DURING EACH PHASE OF CONSTRUCTION. THE INSTALLATION OF THE WATER PROOFING MEMBRANE, PAVEMENT AND JOINT SYSTEM SHALL NOT PROCEED UNTIL AFTER THE COMPLETION OF THE DECK EDGE REPLACEMENT AND PROPER CURE OF CONCRETE (IF APPLICABLE).
2. JOINT / DECK EDGE RECONSTRUCTION ON BRIDGE No. 618, 682, 685 & 686 SHALL BE PERFORMED WITHIN THE PERMITTED TIME RESTRICTIONS NOTED IN THE CONTRACT TMP AND CS PAGES. TEMPORARY TRAFFIC PLATES ARE TO BE INSTALLED TO OPEN THE BRIDGE TO TRAFFIC.
3. FOR THE INSTALLATION SEQUENCE OF THE ASPHALTIC BRIDGE DECK JOINTS, REFER TO SPECIAL PROVISION ITEM CODE 823.9901.

BRIDGE SCUPPER AND DOWNSPOUT REPAIR NOTES

1. IF PRIOR TO BRIDGE WASHING OPERATIONS, ANY BROKEN BRIDGE DRAINAGE COMPONENTS ARE OBSERVED (SUCH AS, BUT NOT LIMITED TO SCUPPER GRATES, DOWNSPOUT PIPING, ELBOWS, FITTINGS, AND HANGERS) THE CONTRACTOR SHALL REPAIR/REPLACE THESE BROKEN COMPONENTS AT THE DIRECTION OF THE ENGINEER. THE ENGINEER SHALL BE THE SOLE JUDGE IN DETERMINING WHETHER OR NOT A PARTICULAR COMPONENT IS TO BE REPAIRED.
2. BRIDGE SCUPPER AND DOWNSPOUT REPAIRS SHALL BE MEASURED AND PAID FOR UNDER ITEM CODE 829.9910 BY FORCE ACCOUNT, COMPLETE AND ACCEPTED BY THE ENGINEER.



<p>COMMONWEALTH ENGINEERS & CONSULTANTS, INC. 400 SMITH STREET PROVIDENCE, RI 02908</p>	<p>TITLE OF SKETCH BRIDGE GENERAL NOTES SHEET 3</p>	<p>R.I. Contract No. 2012-CB-060</p>	<p>Sketch No. 3</p>
<p>AUGUST 27, 2012</p>	<p>ADDENDUM NUMBER 1</p>	<p>Revision to Sheet No. 9</p>	

NOTES:

1. REMOVAL AND DISPOSAL OF EXISTING ASPHALTIC JOINT AND MISCELLANEOUS HARDWARE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM CODE 839.0200, "FULL DEPTH REMOVAL AND DISPOSAL OF BITUMINOUS PAVEMENT FROM CONCRETE BRIDGE DECKS".
2. REMOVAL AND DISPOSAL OF EXISTING JOINT MATERIAL NECESSARY FOR INSTALLATION OF THE NEW JOINT SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED FOR PAYMENT WITH THE NEW JOINT MATERIAL BEING INSTALLED. THERE WILL BE NO SEPARATE PAYMENT FOR REMOVAL AND DISPOSAL OF EXISTING JOINT MATERIALS.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF NEW REPLACEMENT EXPANSION PLATES AND MOUNTING HARDWARE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATELY MEASURING EXISTING CONDITIONS AS NECESSARY PRIOR TO REMOVAL AND DISPOSAL OF EXISTING COMPONENTS TO ENSURE PROPER FIT OF THE NEW COMPONENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROPER FIT AND INSTALLATION OF THE NEW COMPONENTS TO THE SATISFACTION OF THE ENGINEER.
5. ALL WORK ASSOCIATED WITH FURNISHING, FABRICATING AND INSTALLING THE NEW JOINT COMPONENTS AT THE ABUTMENTS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 823.1750.



<p>COMMONWEALTH ENGINEERS & CONSULTANTS, INC. 400 SMITH STREET PROVIDENCE, RI 02908</p>	<p>TITLE OF SKETCH EXPANSION JOINT DETAILS AT ABUTMENTS</p>	<p>R.I. Contract No. 2012-CB-060</p>	<p>Sketch No. 4</p>
<p>AUGUST 27, 2012</p>	<p>ADDENDUM NUMBER 1</p>	<p>Revision to Sheet No. 45</p>	

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808.1501	CONCRETE SUPERSTRUCTURE CLASS HP 3/4" BRIDGE DECKS	6
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824.9970	TEMPORARY TRAFFIC PLATE - BRIDGE 618	14
824.9971	TEMPORARY TRAFFIC PLATE - BRIDGE 682	14
824.9972	TEMPORARY TRAFFIC PLATE - BRIDGE 685	15
824.9973	TEMPORARY TRAFFIC PLATE - BRIDGE 686	15
825.9901	HIGH PRESSURE WATER CLEANING - BRIDGE NO. 618	15
825.9902	HIGH PRESSURE WATER CLEANING - BRIDGE NO. 619	15
825.9903	HIGH PRESSURE WATER CLEANING - BRIDGE NO. 632	15
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825.9906	HIGH PRESSURE WATER CLEANING - BRIDGE NO. 680	16
825.9907	HIGH PRESSURE WATER CLEANING - BRIDGE NO. 681	16
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<u>ItemCode</u>	<u>Description</u>	<u>Page</u>
825.9920	REPAINTING EXISTING STRUCTURAL STEEL - BRIDGE NO. 618	17
825.9921	REPAINTING EXISTING STRUCTURAL STEEL - BRIDGE NO. 639	17
825.9922	REPAINTING EXISTING STRUCTURAL STEEL - BRIDGE NO. 683	18
825.9923	REPAINTING EXISTING STRUCTURAL STEEL - BRIDGE NO. 684	18
825.9924	REPAINTING EXISTING STRUCTURAL STEEL - BRIDGE NO. 685	18
825.9925	REPAINTING EXISTING STRUCTURAL STEEL - BRIDGE NO. 719	18
839.0200	FULL DEPTH REMOVAL AND DISPOSAL OF BITUMINOUS PAVEMENT FROM CONCRETE BRIDGE DECKS	18
905.9901	PORTLAND CEMENT SIDEWALK MONOLITHIC AT BACKWALL	19
906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	19
914.5010	FLAGPERSONS	20
914.5020	FLAGPERSONS - OVERTIME	20
915.0520	GEODETC SURVEY DISK STANDARD 14.4.3	20
922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.1.0 AND 27.1.1	20
923.0105	DRUM BARRICADE STANDARD 26.2.0	22
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	23
924.0113	ADVANCE WARNING ARROW PANEL	23
925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	23
928.0800	TRUCK MOUNTED ATTENUATOR WITH TRUCK MOUNTED FLASHING ARROW BOARD	23
929.0110	FIELD OFFICE	23
932.0210	FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE	23
936.0110	MOBILIZATION	24
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	24
943.0200	TRAINEE MAN-HOURS	24
808.9910	CONCRETE SUBSTRUCTURE CLASS HP 3/4" APPROACH SLAB HAUNCH	25
817.9901	REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING MORTAR)	25
817.9902	REPAIRS TO STRUCTURAL CONCRETE MASONRY (FORM AND CAST IN PLACE)	26
829.9910	BRIDGE SCUPPER & DOWNSPOUT REPAIRS	27

Distribution of Quantities

Project Name - Bridge Preservation-Contract 1
 Estimate Name - Bridge Preservation-Contract 1 - Addendum 1
 R.I. Contract No. - 2012-CB-060
 FAP Nos: BHO-0618(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
010	803.9920 Cont.	BR. NO. 618		3.00	0014	01
		BR. NO. 682				
		BR. NO. 682		14.00	0014	01
		BR. NO. 685				
		BR. NO. 685		6.00	0014	01
		BR. NO. 686				
		BR. NO. 686		4.00	0014	01
Item 803.9920 Total:				27.00		
011	808.0508	CONCRETE SUBSTRUCTURE CLASS XX 3/4'' APPROACH SLABS	CY			
		BR. NO. 682				
		BR. NO. 682		19.00	0014	01
		BR. NO. 685				
		BR. NO. 685		7.00	0014	01
		BR. NO. 686				
		BR. NO. 686		5.00	0014	01
Item 808.0508 Total:				31.00		
012	808.0602	CONCRETE SUBSTRUCTURE CLASS HP 3/4'' BACKWALLS	CY			
		BR. NO. 618				
		BR. NO. 618		1.00	0014	01
		BR. NO. 682				
		BR. NO. 682		11.00	0014	01
		BR. NO. 685				
		BR. NO. 685		3.00	0014	01
		BR. NO. 686				
		BR. NO. 686		1.00	0014	01
Item 808.0602 Total:				16.00		

Distribution of Quantities

Project Name - Bridge Preservation-Contract 1
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 R.I. Contract No. - 2012-CB-060
 FAP Nos: BHO-0618(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
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025	817.2210	POLYMER MODIFIED MORTAR	SF			
		BR. NO. 680				
		BR. NO. 680		10.00	0014	01

Distribution of Quantities

Project Name - Bridge Preservation-Contract 1
 Estimate Name - Bridge Preservation-Contract 1 - Addendum 1
 R.I. Contract No. - 2012-CB-060
 FAP Nos: BHO-0618(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
073	932.0210 Cont.	BR. NO. 618				
		BR. NO. 618		72.00	0014	01
		BR. NO. 639				
		BR. NO. 639		264.00	0014	01
		BR. NO. 681				
		BR. NO. 681		100.00	0014	01
		BR. NO. 682				
		BR. NO. 682		164.00	0014	01
		BR. NO. 683				
		BR. NO. 683		100.00	0014	01
		BR. NO. 684				
		BR. NO. 684		340.00	0014	01
		BR. NO. 685				
		BR. NO. 685		70.00	0014	01
		BR. NO. 686				
		BR. NO. 686		110.00	0014	01
				Item 932.0210 Total:		1,220.00
074	936.0110	MOBILIZATION	LS			
		BRIDGE PRESERVATION				
		ALL WORK ZONES		1.00	0014	01
				Item 936.0110 Total:		1.00
075	937.0200	MAINTENANCE AND MOVEMENT TRAFFIC	LS			
		PROTECTION				
		BRIDGE PRESERVATION				
		ALL WORK ZONES		1.00	0014	01
				Item 937.0200 Total:		1.00
076	943.0200	TRAINEE MAN-HOURS	MHRS			
		BRIDGE PRESERVATION				
		ALL WORK ZONES		2,000.00	0014	01
				Item 943.0200 Total:		2,000.00

Distribution of Quantities

Project Name - Bridge Preservation-Contract 1
 Estimate Name - Bridge Preservation-Contract 1 - Addendum 1
 R.I. Contract No. - 2012-CB-060
 FAP Nos: BHO-0618(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
077	808.9910	CONCRETE SUBSTRUCTURE CLASS HP 3/4" APPROACH SLAB HAUNCH	CY			
		BR. NO. 618				
		BR. NO. 618		8.00	0014	01
		BR. NO. 682				
		BR. NO. 682		11.00	0014	01
		BR. NO. 685				
		BR. NO. 685		3.00	0014	01
Item 808.9910 Total:				22.00		
078	817.9901	REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING MORTAR)	SF			
		BR. NO. 618				
		BR. NO. 618		50.00	0014	01
		BR. NO. 619				
		BR. NO. 619		170.00	0014	01
		BR. NO. 632				
		BR. NO. 632		115.00	0014	01
		BR. NO. 633				
		BR. NO. 633		65.00	0014	01
		BR. NO. 639				
		BR. NO. 639		95.00	0014	01
		BR. NO. 680				
		BR. NO. 680		175.00	0014	01
		BR. NO. 681				
		BR. NO. 681		210.00	0014	01
		BR. NO. 682				
		BR. NO. 682		95.00	0014	01
		BR. NO. 683				
		BR. NO. 683		145.00	0014	01
		BR. NO. 684				
		BR. NO. 684		185.00	0014	01
		BR. NO. 685				

Distribution of Quantities

Project Name - Bridge Preservation-Contract 1
 Estimate Name - Bridge Preservation-Contract 1 - Addendum 1
 R.I. Contract No. - 2012-CB-060
 FAP Nos: BHO-0618(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
078	817.9901 Cont.	BR. NO. 685		75.00	0014	01
		BR. NO. 686				
		BR. NO. 686		100.00	0014	01
		BR. NO. 719				
		BR. NO. 719		100.00	0014	01
Item 817.9901 Total:				1,580.00		
079	817.9902	REPAIRS TO STRUCTURAL CONCRETE MASONRY (FORM AND CAST IN PLACE)	SF			
		BR. NO. 618				
		BR. NO. 618		50.00	0014	01
		BR. NO. 619				
		BR. NO. 619		170.00	0014	01
		BR. NO. 632				
		BR. NO. 632		115.00	0014	01
		BR. NO. 633				
		BR. NO. 633		65.00	0014	01
		BR. NO. 639				
		BR. NO. 639		95.00	0014	01
		BR. NO. 680				
		BR. NO. 680		175.00	0014	01
		BR. NO. 681				
		BR. NO. 681		210.00	0014	01
		BR. NO. 682				
		BR. NO. 682		95.00	0014	01
		BR. NO. 683				
		BR. NO. 683		145.00	0014	01
		BR. NO. 684				
		BR. NO. 684		185.00	0014	01
		BR. NO. 685				
		BR. NO. 685		75.00	0014	01
		BR. NO. 686				
		BR. NO. 686		100.00	0014	01

Distribution of Quantities

Project Name - Bridge Preservation-Contract 1
 Estimate Name - Bridge Preservation-Contract 1 - Addendum 1
 R.I. Contract No. - 2012-CB-060
 FAP Nos: BHO-0618(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
079	817.9902 Cont.	BR. NO. 719				
		BR. NO. 719		100.00	0014	01
				Item 817.9902 Total:		1,580.00
080	829.9910	BRIDGE SCUPPER & DOWNSPOUT REPAIRS	EACH			
		BRIDGE PRESERVATION				
		ALL WORK ZONES		50,000.00	0014	01
				Item 829.9910 Total:		50,000.00