



Paul R. LePage
GOVERNOR

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

David Bernhardt
COMMISSIONER

February 17, 2012
Subject: **South Portland/Portland**
Federal Project No: IM-295-1729(910)E
State PIN: 017929.10
Amendment No. 1

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (pages 4 thru 12) **REMOVE** the "SCHEDULE OF ITEMS" 9 pages dated 120123 and **REPLACE** with the attached new "SCHEDULE OF ITEMS" 9 pages dated 120216.

In the bid book, "SPECIAL PROVISION SECTION 105, GENERAL SCOPE OF WORK (Limitations of Operations)", page 104, **DELETE** note # 37 in its entirety, and **REPLACE** with the following new note 37. "All final highway pavement work shall occur only after the bridge joint work is complete, except for Asphaltic Plug Joints, which are to be completed after surface pavement is completed." Make this change in pen and ink.

In the Bid Book (pages 140 and 141) **REMOVE** "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT" 2 pages dated January 18, 2012 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT" 2 pages dated February 14, 2012.

Make the following changes to the Plans:

Please see the attached sheet adding new Items to page 2 of 111, entitled "Estimated Bridge Quantities".

The following questions have been received:

Question: Structural note 15 on page 3 refers to Specification Section 202.031. Can pavement and membrane be removed by grinding or is the Department specifically excluding grinding?

Response: The Department is not specifically excluding grinding.



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Paragraph 2 of Specification 202.031 states - “Extreme care shall be taken to avoid damaging the top of the concrete deck to remain. All existing deck concrete damaged by the Contractor, which is not specified to be scarified or rehabilitated, shall be repaired. Such repair shall be at the expense of the Contractor.”

Additionally Paragraph 1 of Specification 202.031 states “Membrane waterproofing, if present, shall also be removed in a manner approved by the Resident.” Whereas no bridge deck areas are scheduled to be scarified the Contractor shall be responsible for repairing all deck areas damaged by grinding to remove pavement or membrane that otherwise do not need concrete rehabilitation.

Question: How will reinforcing steel be paid?

Response: For pay items 502.70 Bridge Drain – Type A; 502.70 Bridge Drain – Type A (Modified); and 502.70 Bridge Drain – Type C the reinforcing steel is included in the Basis of Payment of the pay item(s).

For pay item 510.41 Special Detour - Median Island Removal and Reconstruction, Bridge the reinforcing steel is included in the Basis of Payment of the pay item.

For pay items 518.50 Repair of Upward Facing Surfaces – To Reinforcing Steel <7.9 In.; 518.51 Repair of Upward Facing Surfaces – Below Reinforcing Steel <7.9 In.; 518.52 Repair of Upward Facing Surfaces >7.9 In.; 518.60 Repair of Vertical Surfaces <7.9 In.; and 518.61 Repair of Vertical Surfaces >7.9 In. reinforcing steel will be paid as outlined in Standard Specification 518.10 Method of Measurement. Any reinforcing steel and tension coupler required by the resident to be replaced/installed will be paid for under the added pay items; 503.12 Reinforcing Steel, Fabricated and Delivered, 503.13 Reinforcing Steel, Placing, and 503.17 Mechanical Splice.

For pay items 520.2421 Bridge Joint Modifications Type 2A; 520.243 Bridge Joint Modifications Type 3; 520.244 Bridge Joint Modifications Type 4; 520.245 Bridge Joint Modifications Type 5; 520.246 Bridge Joint Modifications Type 6; 520.2471 Bridge Joint Modifications Type 7A; and 520.2472 Bridge Joint Modifications Type 7B the reinforcing steel is included in the Basis of Payment of the pay item(s).

For pay item 526.34 Permanent Concrete Transition Barrier the reinforcing steel is included in the Basis of Payment of the pay item.

Question: How will granular borrow and other material required to be removed and replaced behind the replaced backwalls (Jt. 2A) be paid?

Response: For Clarification, replacement of backwalls is required for Joint Modification 3, 5 and 6. Material determined by the Resident to be unsuitable for replacement behind the replaced backwalls will be replaced with Aggregate Base Course – Crushed and will be paid under the added pay item 304.09 Aggregate Base Course – Crushed.

The excavation of the materials behind the replaced backwalls, and replacement of granular materials determined by the Resident to be suitable for replacement, shall be paid under the added pay item 206.082 Structural Earth Excavation – Major Structures, Plan Quantity. The horizontal pay limits shall be 2’-6” off the existing backwalls to be replaced. The vertical pay limits are to the approach slab. Temporary structural earth support systems, to the vertical pay limit are incidental to the pay item 206.082 Structural Earth Excavation – Major Structures, Plan Quantity.

Question: Note #10 on page 18 says that “minimum depth of backwall reconstruction shall be to backwall construction joint or solid concrete whichever is greater.” The entire breastwall or the entire abutment could be removed under this note. How will this undefined removal and replacement be paid?

Response: The answer to question 3, above, outlines the limits and payment for backwall repair to the existing backwall horizontal construction joint.

Question: The HMA table in the 403 Special Provision calls for 12.5mm for On and Off Ramps and shows an item number of 403.2081. The Complimentary notes however do not show that Polymer PGAB is required.

Is the use of 403.2081 required on all ramps or should there be an item for 403.208?

Response: Yes, the use of 403.2081 is required on all ramps.

See attached revised Special Provision Section 403.

Question: 105 Special Provision Note 37 states that “All final highway paving work shall only occur after the bridge joint work is complete”.

The note next to the detail for the type 4 joint modification on the plans states that the Asphaltic Plug cannot be installed until the second lift of pavement has been placed. Could the Department please clarify?

Response: See above changes as addressed in this amendment.

Question: Special Provision 403 complementary notes in the HMA table show that the MTV is required on all lifts of the wearing course at the approach and departure of all bridges.

The longest stretch of continuous paving is less than 976 LF, would the Department consider waiving this requirement?

Response: For areas where only the bridge and bridge approach is being paved the MTV shall not be required; for paving mainline travel lanes the MTV shall be required.

Question: The laborer wage rate from ME120018 is \$19.50 with a fringe of \$14.50. Is this the right rate?

Response: USDOL has determined that this is the correct prevailing rate specifically for a laborer working with concrete demolition and/or installation.

Consider these changes and information prior to submitting your bid on February 22, 2012.

Sincerely,

A handwritten signature in black ink that reads "George MacDougall". The signature is written in a cursive style with a large initial "G".

George MacDougall
Acting Contracts & Specifications Engineer

SCHEDULE OF ITEMS

CONTRACT ID: 017929.10

PROJECT(S): im-295-1792(910)e

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
SECTION 0001 project items						
0010	202.202 REMOVING PAVEMENT SURFACE	45440.000 SY				
0020	203.2312 HEALTH AND SAFETY PLAN	LUMP	LUMP			
0030	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	93.000 CY				
0040	304.09 AGGREGATE BASE COURSE - CRUSHED	80.000 CY				
0050	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	42.000 CY				
0060	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	4657.000 T				
0070	403.2101 9.5 MM POLYMER MODIFIED HMA	600.000 T				
0080	403.211 HOT MIX ASPHALT (SHIMMING)	310.000 T				
0090	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	818.000 T				
0100	409.15 BITUMINOUS TACK COAT - APPLIED	2502.000 G				

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	424.3331 ASPHALT LOW MODULUS CRACK SEALER, APPLIED	500.000 LB				
0120	424.3333 LOW MODULUS JOINT SEALER, APPLIED	25400.000 LF				
0130	429.34 GRID/ FABRIC FABRIC COMPOSITE PAVEMENT INTERLAYER	840.000 SF				
0140	502.70 BRIDGE DRAINS type a	10.000 EA				
0150	502.70 BRIDGE DRAINS type a modified	3.000 EA				
0160	502.70 BRIDGE DRAINS type c	20.000 EA				
0170	502.702 REMOVE BRIDGE DRAIN	5.000 EA				
0180	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	2000.000 LB				
0190	503.13 REINFORCING STEEL, PLACING	2000.000 LB				
0200	503.17 MECHANICAL WELDED SPLICE	100.000 EA				
0210	506.144 FIELD PAINTING NEW AND EXISTING STRUCTURAL STEEL	LUMP	LUMP			

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PROJECT(S): im-295-1792(910)e

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0220	506.17 SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	LUMP	LUMP			
0230	506.18 CONTAINMENT AND POLLUTION CONTROL	LUMP	LUMP			
0240	506.191 DISPOSAL OF SPECIAL WASTE OR HAZARDOUS WASTE MATERIAL	LUMP	LUMP			
0250	507.0926 FURNISH ALUMINUM BRIDGE RAIL COMPONENTS	LUMP	LUMP			
0260	507.0927 ALUMINUM BRIDGE RAIL, 2 BAR POST REPLACEMENT	EA 3.000				
0270	507.0928 ALUMINUM BRIDGE RAIL, RAIL SECTION REPLACEMENT	LF 240.000				
0280	507.30 ALUMINUM RAIL BAR SPLICE RETROFIT	EA 53.000				
0290	507.31 ALUMINUM BRIDGE RAIL SPLICE INSPECTION	LUMP	LUMP			
0300	507.32 ALUMINUM BRIDGE RAIL TOGGLE BOLT REPLACEMENT	EA 48.000				
0310	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			
0320	510.40 SPECIAL DETOUR - APPROACH PAVEMENT	LUMP	LUMP			

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0330	510.41 SPECIAL DETOUR - MEDIAN ISLAND REMOVAL & RECONSTRUCTION BRIDGE	LUMP	LUMP			
0340	510.42 SPECIAL DETOUR - MEDIAN ISLAND REMOVAL & RECONSTRUCTION HIGHWAY	LUMP	LUMP			
0350	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP	LUMP			
0360	518.391 REPAIRING GRANITE CURB JOINT AND BEDDING MORTAR	LF 1762.000				
0370	518.50 REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 7.9 IN.	SF 6460.000				
0380	518.51 REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 7.9 IN.	SF 1475.000				
0390	518.52 REPAIR OF UPWARD FACING SURFACES > 7.9 IN.	CY 10.000				
0400	518.60 REPAIR OF VERTICAL SURFACES < 7.9 IN.	SF 200.000				
0410	518.61 REPAIR OF VERTICAL SURFACES > 7.9 IN.	CY 14.000				
0420	520.2421 BRIDGE JOINT MODIFICATION TYPE 2A	EA 3.000				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0430	520.243 BRIDGE JOINT MODIFICATION TYPE 3	EA 8.000				
0440	520.244 BRIDGE JOINT MODIFICATION TYPE 4	EA 9.000				
0450	520.245 BRIDGE JOINT MODIFICATION TYPE 5	EA 3.000				
0460	520.246 BRIDGE JOINT MODIFICATION TYPE 6	EA 2.000				
0470	520.2471 BRIDGE JOINT MODIFICATION TYPE 7A	EA 2.000				
0480	520.2472 BRIDGE JOINT MODIFICATION TYPE 7B	EA 3.000				
0490	524.301 TEMPORARY STRUCTURAL SUPPORT	LUMP	LUMP			
0500	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP	LUMP			
0510	526.34 PERMANENT CONCRETE TRANSITION BARRIER	EA 46.000				
0520	527.34 WORK ZONE CRASH CUSHIONS	UN 15.000				
0530	604.167 ALTER CATCH BASIN GRATE TO CASCADE	EA 23.000				

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0540	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	EA 2.000				
0550	604.182 CLEAN EXISTING CATCH BASIN AND MANHOLE	EA 32.000				
0560	606.1721 BRIDGE TRANSITION - TYPE 1	EA 46.000				
0570	606.24 GUARDRAIL TYPE 3D - SINGLE RAIL	LF 2000.000				
0580	606.363 GUARDRAIL REMOVE AND DISPOSE	LF 2874.000				
0590	610.08 PLAIN RIPRAP	CY 140.000				
0600	615.07 LOAM	CY 112.000				
0610	618.1401 SEEDING METHOD NUMBER 2 - PLAN QUANTITY	UN 18.000				
0620	619.1201 MULCH - PLAN QUANTITY	UN 18.000				
0630	620.58 EROSION CONTROL GEOTEXTILE	SY 280.000				
0640	627.18 12 " SOLID WHITE PAVEMENT MARKING	LF 6850.000				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0650	627.744 6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	LF 68800.000				
0660	627.77 REMOVING PAVEMENT MARKINGS	SF 31810.000				
0670	627.781 TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	LF 129900.000				
0680	629.05 HAND LABOR, STRAIGHT TIME	HR 180.000				
0690	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	HR 112.000				
0700	631.11 AIR TOOL (INCLUDING OPERATOR)	HR 112.000				
0710	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR 72.000				
0720	631.133 SKID STEER (INCLUDING OPERATOR)	HR 16.000				
0730	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	HR 72.000				
0740	631.21 ROAD BROOM (INCLUDING OPERATORS AND HAULER)	HR 24.000				
0750	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	HR 24.000				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0760	639.18 FIELD OFFICE TYPE A	EA 1.000				
0770	643.72 TEMPORARY TRAFFIC SIGNAL	LUMP	LUMP			
0780	645.306 FLEXIBLE REFLECTORIZED DELINEATOR	EA 56.000				
0790	652.30 FLASHING ARROW BOARD	EA 11.000				
0800	652.312 TYPE III BARRICADE	EA 12.000				
0810	652.33 DRUM	EA 770.000				
0820	652.34 CONE	EA 190.000				
0830	652.35 CONSTRUCTION SIGNS	SF 8890.000				
0840	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	CD 224.000				
0850	652.38 FLAGGER	HR 192.000				
0860	652.381 TRAFFIC OFFICER	HR 672.000				

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0870	652.382 TRAFFIC MONITOR	224.000 CD				
0880	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	9.000 EA				
0890	652.415 PORTABLE CHANGEABLE MESSAGE SIGN - TRANSPORT & SETUP	2.000 EA				
0900	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0910	659.10 MOBILIZATION	LUMP	LUMP			
0920	660.21 ON-THE-JOB TRAINING (BID)	2000.000 HR				
	SECTION 0001 TOTAL					
	TOTAL BID					

SPECIAL PROVISION
SECTION 403
HOT MIX ASPHALT

Desc. Of Course	Grad Design.	Item Number	Bit Cont. % of Mix	Total Thick	No. Of Layers	Comp. Notes
<u>2" Mill with 2" HMA Overlay Areas</u>						
<u>Mainline Travel Lanes, Auxiliary Lanes, and Shoulders</u>						
Wearing	12.5 mm	403.2081	N/A	2"	1	1,6,7,12,19
Shim	9.5 mm	403.211	N/A	variable	1	2,6,8,11
<u>1.5" Mill with 1.5" HMA Overlay Areas</u>						
<u>On and Offramp Travel Lanes</u>						
Wearing	12.5 mm	403.2081	N/A	1 1/2"	1	1,6,7,12
<u>6" HMA Rebase Areas</u>						
<u>Forest Avenue Approach</u>						
<u>Mainline Travel Lanes, Auxiliary Lanes, and Shoulders</u>						
Wearing	12.5 mm	403.2081	N/A	2"	1	1,6,7,12,19
Base	12.5 mm	403.2131	N/A	4"	2	1,6,8
<u>3 1/2" HMA Rebase Areas</u>						
<u>Forest Avenue Departure</u>						
<u>Mainline Travel Lanes, Auxiliary Lanes, and Shoulders</u>						
Wearing	12.5 mm	403.2081	N/A	2"	1	1,6,7,12,19
Base	12.5 mm	403.2131	N/A	1 1/2"	1	1,6,8
<u>5" HMA Rebase Areas</u>						
<u>Preble Street Approach</u>						
<u>Mainline Travel Lanes, Auxiliary Lanes, and Shoulders</u>						
Wearing	12.5 mm	403.2081	N/A	2"	1	1,6,7,12,19
Base	12.5 mm	403.2131	N/A	3"	2	1,6,8
<u>5 1/2" HMA Rebase Areas</u>						
<u>Preble Street Departure</u>						
<u>Mainline Travel Lanes, Auxiliary Lanes, and Shoulders</u>						
Wearing	12.5 mm	403.2081	N/A	2"	1	1,6,7,12,19
Base	12.5 mm	403.2131	N/A	3 1/2"	2	1,6,8
<u>Spot Shims - Delaminated Areas as Directed</u>						
Shim	9.5 mm	403.211	N/A	variable	1	2,6,8,11

COMPLEMENTARY NOTES

1. The required PGAB for this mixture will meet a **PG 70-28** to **PG 76-28** grading. Refer to Special Provision 400 – Polymer Modified PGAB for HMA, for additional testing and documentation requirements. The use of Recycled Asphalt Pavement (RAP) will not be permitted in mixtures utilizing modified PGAB's.
2. The density requirements are waived. The use of an oscillating steel roller shall be required to compact all HMA pavements placed on bridge decks in addition to the normal roller train.

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IM-1792(910)E
I - 295 Northbound
Highway Resurfacing
February 14, 2012**

5. The aggregate qualities shall meet the design traffic level of 3 to <10 million ESALS for mix placed under this contract. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **75 gyrations**.
6. The design traffic level for mix placed shall be 10 to <30 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **75 gyrations**.
7. Section 106.6 Acceptance, (1) Method A.
8. Section 106.6 Acceptance, (2) Method B.
11. The combined aggregate gradation required for this item shall be classified as a 9.5mm “**fine graded**” mixture, (using the Primary Control Sieve control point) as defined in 703.09.
12. The combined aggregate gradation required for this item shall be classified as a 12.5mm “**fine graded**” mixture (using the Primary Control Sieve control point) as defined in 703.09.
19. The use of a Material Transfer Vehicle (MTV) shall be required on this layer.

Tack Coat

A tack coat of emulsified asphalt, RS-1, Item #409.15 shall be applied to any existing pavement at a rate of approximately 0.025 G/SY, and on milled pavement approximately 0.05 G/SY, prior to placing a new course. A fog coat of emulsified asphalt shall be applied between shim / intermediate course and the surface course at a rate of 0.025 G/SY.

Tack used between layers of pavement will be paid for at the contract unit price for Item 409.15 Bituminous Tack Coat.

Add the following items to the Plans, sheet 2 of 111,
 titled "Estimated Bridge Quantities"

Item No	Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total	Units
206.082	Structural Earth Excavation			10	9	22	15	7		5	6	6	8	5		93	CY
304.09	Aggregate Base Course – Crushed			9	8	16	13	6		5	6	6	7	4		80	CY
503.12	Reinforcing Steel, Fabricated and Delivered	220	100	400	140	180	220	80	40	120	100	100	120	80	100	2000	LBS
503.13	Reinforcing Steel, Placing	220	100	400	140	180	220	80	40	120	100	100	120	80	100	2000	LBS
503.17	Mechanical Splice	7	7	7	7	7	7	7	7	7	7	7	7	8	8	100	EA