



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

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

February 12, 2010
Subject: **Smyrna, Ludlow, New Limerick
and Houlton**
Federal Project No: IM-1681(910)S
State Pin No: 016819.00
Amendment No. 3

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (pages 4 thru 11), **REMOVE** the "SCHEDULE OF ITEMS", 8 pages dated 100204 and **REPLACE** with the attached new "SCHEDULE OF ITEMS", 8 pages dated 100212.

In the Bid Book (page 64), "SPECIAL PROVISION, DIVISION 400, PAVEMENTS", Make the following **CHANGES** in pen and ink to "SECTION 401 – HOT MIX ASPHALT PAVEMENT".

1. **DELETE** Paragraph 401.021 (page 64) in its entirety and **REPLACE** with the following:
"401.021 Recycled Asphalt Materials Recycled Asphalt Pavement (RAP) may be introduced into the mixture at percentages approved by the Department. If approved by the Department, the Contractor shall provide documentation stating the source, test results for average residual asphalt content, and stockpile gradations showing RAP materials have been sized to meet the maximum aggregate size requirements of each mix designation. The Department will obtain samples for verification and approval prior to its use.

For specification purposes, RAP will be categorized as follows:

Classified RAP – RAP consisting of processed millings from federal, state or municipal roadways that is free of materials not generally considered to be asphalt pavement. Millings from other sources that have been fractionated or otherwise processed so as to improve the consistency of the RAP may be considered Classified RAP if approved by the Department.

Unclassified RAP – RAP from unknown sources, from excavated or reclaimed pavements, millings from repaired areas or other sources.

In the event that RAP source or properties change, the Contractor shall notify the Department of the change and submit new documentation stating the new source or



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properties a minimum of 72 hours prior to the change to allow for obtaining new samples and approval.”

2. **DELETE** the first Paragraph only of 401.03 (page 64) and **REPLACE** with the following:

“401.03 Composition of Mixtures The Contractor shall compose the Hot Mix Asphalt Pavement with aggregate, Performance Graded Asphalt Binder (PGAB), and mineral filler if required. HMA shall be designed and tested according to AASHTO R35 and the volumetric criteria in Table 1. The Contractor shall size, uniformly grade, and combine the aggregate fractions in proportions that provide a mixture meeting the grading requirements of the Job Mix Formula (JMF). The Contractor may use a maximum of 20 percent Classified RAP in any base, binder, surface, or shim course. For Unclassified RAP stockpiles no more than 15 percent shall be used. The Contractor may be allowed to use more than 20 percent Classified , up to a maximum of 25 percent Classified RAP, in a base, binder, or shim course provided that PG 58-34 asphalt binder is used in the mixture. PG 52-34 may be used when approved by the Department.”

In the Bid Book (pages 88 and 89), **REMOVE** “SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT OVERLAY” 2 pages dated February 3, 2010 and **REPLACE** with the attached new “SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT OVERLAY” 2 pages dated February 12, 2010.

The following questions have been received:

Question: There are no locations given for item 605.09 – 6” under drain. Could you give the lengths of the runs with a station location and offset location for this item?

Response: Item 605.09 - 6” U.D. All runs will be on the edge of the travel way shoulder outside the existing pavement. The under drain outlets Are at the end stations.

Sta 6142+ 50 to 6146+75

Sta 6149+50 to 6153+50

Sta 6153+75 to 6158+00

Sta 6192+0 to 6194+00

Sta 6202+00 to 6204+00

They will need 5 - 45 degree elbows. The 5 out let pipes will be between 20 and 30’ long.

Question: Will the Contractor be permitted to use 20% RAP in all HMA job mixes on this project?

Response: See the above pen and ink change.

Question: The plans call for a membrane replacement on bridge no. 1384 over B stream. There is no item for the replacement of this membrane. Should there be an item for the replacement of the membrane?

Response: Yes, please see the above change.

Question: On item 606.79 Guardrail 350 flared terminal, are these new locations or modifying existing locations?

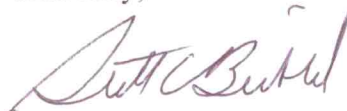
Response: Item 606.79 - 350 flares. There are some new locations and some to replacement existing BCT's. 13 are new.

Question: On item 606.23, Guardrail Type 3C Single Rail, are locations and lengths available?

Response: The 606.23 item is to extend off existing runs. They go from the existing rails to the new 350's. We are replacing the existing twisted end sections with straight rail and 350's. All runs are 125'. The twisted end sections will need to be removed before the widenings can be done.

Consider these changes and information prior to submitting your bid on February 17, 2010.

Sincerely,



Scott Bickford
Contracts & Specifications Engineer

SCHEDULE OF ITEMS

CONTRACT ID: 016819.10

PROJECT(S): IM-1681(910)S

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	228830.000 SY				
0020	202.203 PAVEMENT BUTT JOINTS	280.000 SY				
0030	202.204 RUMBLE STRIPS	4.000 GP				
0040	202.205 RUMBLE STRIPS - SHOULDER	69800.000 LF				
0050	202.30 REMOVING EXISTING CONCRETE WEARING SURFACE	LUMP	LUMP			
0060	205.51 WIDENING OF EXISTING SHOULDER - PLAN QUANTITY	4000.000 SY				
0070	403.102 HOT MIX ASPHALT PAVEMENT - SPECIAL AREAS	200.000 T				
0080	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	19750.000 T				
0090	403.211 HOT MIX ASPHALT (SHIMMING)	10450.000 T				
0100	409.15 BITUMINOUS TACK COAT - APPLIED	17960.000 G				

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REVISED:

CONTRACT ID: 016819.10

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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	12500.000 LB				
0120	424.3333 LOW MODULUS JOINT SEALER, APPLIED	72000.000 LF				
0130	429.34 GRID/ FABRIC FABRIC COMPOSITE PAVEMENT INTERLAYER	475.000 SF				
0140	502.29 STRUCTURAL CONCRETE WEARING SURFACE ON BRIDGES	LUMP	LUMP			
0150	504.07 CONCRETE PIPE TIES	41.000 GP				
0160	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			
0170	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP	LUMP			
0180	518.39 REPAIRING GRANITE CURB BEDDING MORTAR	30.000 LF				
0190	518.50 REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 7.9 IN.	3025.000 SF				
0200	518.51 REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 7.9 IN.	105.000 SF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0210	518.60 REPAIR OF VERTICAL SURFACES < 7.9 IN.	50.000 SF				
0220	518.61 REPAIR OF VERTICAL SURFACES > 7.9 IN.	15.000 CY				
0230	520.221 EXPANSION DEVICE - COMPRESSION SEAL	LUMP	LUMP			
0240	520.241 BRIDGE JOINT MODIFICATION TYPE 1	5.000 EA				
0250	520.243 BRIDGE JOINT MODIFICATION TYPE 3	2.000 EA				
0260	520.26 LONGITUDINAL BRIDGE JOINT MODIFICATION	17.000 LF				
0270	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP	LUMP			
0280	526.34 PERMANENT CONCRETE TRANSITION BARRIER	20.000 EA				
0290	603.16 15 INCH CULVERT PIPE OPTION I	40.000 LF				
0300	603.7424 REMOVE & RELAY 24 INCH CONCRETE PIPE	152.000 LF				
0310	603.7436 REMOVE & RELAY 36 INCH CONCRETE PIPE	72.000 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0320	603.7442 REMOVE & RELAY 42 INCH CONCRETE PIPE	88.000 LF				
0330	603.746 REMOVE & RELAY 60 INCH CONCRETE PIPE	16.000 LF				
0340	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	6.000 EA				
0350	605.09 6 INCH UNDERDRAIN TYPE B	2000.000 LF				
0360	605.10 6 INCH UNDERDRAIN OUTLET	200.000 LF				
0370	606.1721 BRIDGE TRANSITION - TYPE 1	20.000 EA				
0380	606.178 GUARDRAIL BEAM	1325.000 LF				
0390	606.23 GUARDRAIL TYPE 3C - SINGLE RAIL	1625.000 LF				
0400	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	6.000 EA				
0410	606.352 REFLECTORIZED BEAM GUARDRAIL DELINEATORS	415.000 EA				
0420	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	54.000 EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0430	606.356 UNDERDRAIN DELINEATOR POST	12.000 EA				
0440	606.362 GUARDRAIL ADJUSTED	1875.000 LF				
0450	606.367 REPLACE UNUSABLE EXISTING GUARDRAIL POSTS	15.000 EA				
0460	606.79 GUARDRAIL 350 FLARED TERMINAL	18.000 EA				
0470	609.40 RESET CURB TYPE 5	200.000 LF				
0480	610.08 PLAIN RIPRAP	40.000 CY				
0490	612.06 BITUMINOUS SEALING - BLACK	80.000 SY				
0500	613.319 EROSION CONTROL BLANKET	2140.000 SY				
0510	618.1401 SEEDING METHOD NUMBER 2 - PLAN QUANTITY	1630.000 UN				
0520	618.1411 SEEDING METHOD NUMBER 3 - PLAN QUANTITY	414.000 UN				
0530	619.1201 MULCH - PLAN QUANTITY	2044.000 UN				

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			DOLLARS	CTS	DOLLARS	CTS
0540	620.58 EROSION CONTROL GEOTEXTILE	400.000 SY				
0550	627.618 12 INCH SOLID WHITE PAVEMENT MARK LINE	3550.000 LF				
0560	627.744 6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	223160.000 LF				
0570	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	200.000 SF				
0580	627.781 TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	223160.000 LF				
0590	629.05 HAND LABOR, STRAIGHT TIME	400.000 HR				
0600	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	20.000 HR				
0610	631.11 AIR TOOL (INCLUDING OPERATOR)	20.000 HR				
0620	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	700.000 HR				
0630	631.122 MINI ALL-PURPOSE EXCAVATOR (INCLUDING OPERATOR)	25.000 HR				
0640	631.132 SMALL BULLDOZER (INCLUDING OPERATOR)	400.000 HR				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0650	631.133 SKID STEER (INCLUDING OPERATOR)	400.000 HR				
0660	631.14 GRADER (INCLUDING OPERATOR)	600.000 HR				
0670	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	1800.000 HR				
0680	631.18 CHAIN SAW RENTAL (INCLUDING OPERATOR)	10.000 HR				
0690	631.22 FRONT END LOADER (INCLUDING OPERATOR)	400.000 HR				
0700	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	40.000 HR				
0710	639.18 FIELD OFFICE TYPE A	1.000 EA				
0720	645.306 FLEXIBLE REFLECTORIZED DELINEATOR	150.000 EA				
0730	652.30 FLASHING ARROW BOARD	3.000 EA				
0740	652.33 DRUM	740.000 EA				
0750	652.34 CONE	740.000 EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0760	652.35 CONSTRUCTION SIGNS	1700.000 SF				
0770	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	167.000 CD				
0780	652.38 FLAGGER	600.000 HR				
0790	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	4.000 EA				
0800	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0810	659.10 MOBILIZATION	LUMP	LUMP			
	TOTAL BID					

SPECIAL PROVISION
SECTION 403
HOT MIX ASPHALT OVERLAY

Desc. of Course	Grad. Design	Item Number	Bit Cont. % of Mix	Total Thick	No. Of Layers	Comp. Notes
<u>2 1/4" HMA Mill and Resurface</u>						
<u>Travel, Passing Lanes and Ramps</u>						
Wearing	12.5mm	403.208	N/A	1 1/2"	1	1,4,7,12,13,22
Shim	9.5 mm	403.211	N/A	variable	1	1,2,4,7,11,23
<u>1 1/2" HMA Overlay - Crossovers</u>						
Wearing	12.5mm	403.208	N/A	1 1/2"	1/more	1,4,7,12,13
Shim	9.5 mm	403.211	N/A	variable	1	1,2,4,7,11,23
<u>1 1/2" HMA Travelway Mill and Resurface - Bridge Decks</u>						
Wearing	12.5mm	403.208	N/A	1 1/2"	1/more	1,2,4,7,12,13
<u>3" HMA Mill and Resurface - Bridge Decks</u>						
Wearing	12.5mm	403.208	N/A	1 1/2"	1	1,2,4,7,12,13
Wearing	12.5mm	403.208	N/A	1 1/2"	1	1,2,3,4,7,12,13
<u>3" HMA Guardrail widenings</u>						
Wearing	12.5 mm	403.208	N/A	3"	2/more	1,4,7,12,13
<u>Miscellaneous Areas</u>						
Shim	9.5 mm	403.102	N/A	variable	1	2,10,19

COMPLEMENTARY NOTES

1. The required PGAB for this mixture will meet a **PG 58-28** or **PG 64-28** grading. All asphalt grades utilized on the travelway and ramps shall be treated with an approved liquid anti-strip. PG binders shall be unmodified and treated with 0.25 to 1.0 percent anti-strip by weight of asphalt binder used, dependent upon manufacturer and active ingredient percentage. The Contractor shall stipulate which PGAB grading will be used to construct the entire HMA pavement structure prior to starting work. Changes to the PGAB grading must be approved by the Department prior to the change in PGAB grading.
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.
3. The use of Recycled Asphalt Pavement (RAP) **will not** be permitted.
4. The design traffic level for mix placed shall be 0.3 to <3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **50 gyrations**.
7. Section 106.6 Acceptance, (1) Method A.
10. Section 106.6 Acceptance, (2) Method D.
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.
13. A mixture meeting the gradation of 9.5 mm hot mix asphalt may be used at the option of the contractor.

19. See Special Provision 403.102 -Hot Mix Asphalt for Special Areas and construction notes for

project specifics

22. The final pavement surface shall be evaluated for smoothness in accordance with the most current 400 Special Provision section 402 – Pavement Smoothness. Acceptance limits shall be as outlined under the **Level 1** classification.
23. Shim item shall be used in various mill and fill locations on the ramps and crossovers as directed by the Resident.

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 not to exceed 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.