



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

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

March 19, 2010
Subject: **Scarborough, Falmouth,
Cumberland, Yarmouth, Freeport, South
Portland & Portland**
Federal Project No's: IM-1677(400)E &
STP-1705(500)E
State Pin No's: 016774.00 & 017055.00
Amendment No. 2

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 100303 and **REPLACE** with the attached new "SCHEDULE OF ITEMS", 9 pages dated 100318.

In the Bid Book, after page 183, **INSERT** the attached "SPECIAL PROVISION, SECTION 890, SPECIAL WORK ORDER #1, Weigh-In-Motion", 2 pages dated March 18, 2010 **AND** "Special Work order #1, Plan Sheet" 1 page dated March 18, 2010.

Consider these changes and information prior to submitting your bid on March 24, 2010.

Sincerely,

FOR

Scott Bickford
Contracts & Specifications Engineer



PRINTED ON RECYCLED PAPER

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 016774.00

PROJECT(S): IM-1677(400)E
STP-1705(500)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	200000.000 SY				
0020	205.512 WIDENING OF EXISTING SHOULDER	1000.000 SY				
0030	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	1900.000 T				
0040	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	14500.000 T				
0050	403.210 HOT MIX ASPHALT 9.5 MM	250.000 T				
0060	403.211 HOT MIX ASPHALT (SHIMMING)	5500.000 T				
0070	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	7700.000 T				
0080	409.15 BITUMINOUS TACK COAT - APPLIED	16000.000 G				
0090	424.3331 ASPHALT LOW MODULUS CRACK SEALER, APPLIED	3000.000 LB				
0100	424.3333 LOW MODULUS JOINT SEALER, APPLIED	64000.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
0110	429.34 GRID/ FABRIC FABRIC COMPOSITE PAVEMENT INTERLAYER	250.000 SF				
0120	504.07 CONCRETE PIPE TIES	126.000 GP				
0130	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			
0140	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP	LUMP			
0150	518.50 REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 7.9 IN.	125.000 SF				
0160	518.50 REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 7.9 IN. CONCRETE SLAB REPAIR	2500.000 SF				
0170	518.51 REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 7.9 IN.	50.000 SF				
0180	518.51 REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 7.9 IN. CONCRETE SLAB REPAIR	250.000 SF				
0190	518.60 REPAIR OF VERTICAL SURFACES < 7.9 IN.	50.000 SF				

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			DOLLARS	CTS	DOLLARS	CTS
0200	518.61 REPAIR OF VERTICAL SURFACES > 7.9 IN.	15.000 CY				
0210	520.24 BRIDGE JOINT MODIFICATION	1.000 EA				
0220	520.241 BRIDGE JOINT MODIFICATION TYPE 1	6.000 EA				
0230	520.242 BRIDGE JOINT MODIFICATION TYPE 2	1.000 EA				
0240	520.243 BRIDGE JOINT MODIFICATION TYPE 3	1.000 EA				
0250	520.26 LONGITUDINAL BRIDGE JOINT MODIFICATION	5.000 LF				
0260	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP	LUMP			
0270	526.34 PERMANENT CONCRETE TRANSITION BARRIER	20.000 EA				
0280	527.301 ENERGY ABSORBING SYSTEM (C-A-T)	8.000 EA				
0290	603.165 15 INCH REINFORCED CONCRETE PIPE CLASS III	376.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
0300	603.195 24 INCH REINFORCED CONCRETE PIPE CLASS III	380.000 LF				
0310	603.205 30 INCH REINFORCED CONCRETE PIPE CLASS III	24.000 LF				
0320	603.215 36 INCH REINFORCED CONCRETE PIPE CLASS III	48.000 LF				
0330	603.235 48 INCH REINFORCED CONCRETE PIPE CLASS III	32.000 LF				
0340	603.259 60 INCH CULVERT PIPE OPTION III	16.000 LF				
0350	603.7415 REMOVE & RELAY 15 INCH CONCRETE PIPE	16.000 LF				
0360	603.7418 REMOVE & RELAY 18 INCH CONCRETE PIPE	32.000 LF				
0370	603.7424 REMOVE & RELAY 24 INCH CONCRETE PIPE	240.000 LF				
0380	603.743 REMOVE & RELAY 30 INCH CONCRETE PIPE	40.000 LF				
0390	603.7436 REMOVE & RELAY 36 INCH CONCRETE PIPE	16.000 LF				
0400	603.7448 REMOVE & RELAY 48 INCH CONCRETE PIPE	8.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
0410	604.164 REBUILDING CATCH BASIN	1.000 EA				
0420	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	8.000 EA				
0430	604.182 CLEAN EXISTING CATCH BASIN AND MANHOLE	81.000 EA				
0440	606.1721 BRIDGE TRANSITION - TYPE 1	20.000 EA				
0450	606.178 GUARDRAIL BEAM	200.000 LF				
0460	606.24 GUARDRAIL TYPE 3D - SINGLE RAIL	1200.000 LF				
0470	606.241 GUARDRAIL TYPE 3D - 15 FOOT RADIUS AND LESS	37.500 LF				
0480	606.242 GUARDRAIL TYPE 3D - OVER 15 FOOT RADIUS	37.500 LF				
0490	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	10.000 EA				
0500	606.352 REFLECTORIZED BEAM GUARDRAIL DELINEATORS	400.000 EA				

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			DOLLARS	CTS	DOLLARS	CTS
0510	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	180.000 EA				
0520	606.356 UNDERDRAIN DELINEATOR POST	100.000 EA				
0530	606.362 GUARDRAIL ADJUSTED	2475.000 LF				
0540	606.367 REPLACE UNUSABLE EXISTING GUARDRAIL POSTS	10.000 EA				
0550	606.79 GUARDRAIL 350 FLARED TERMINAL	18.000 EA				
0560	606.901 CABLE BARRIER, HIGH TENSION, TL-3	35000.000 LF				
0570	606.91 CABLE BARRIER TERMINAL, HIGH TENSION, TL-3	24.000 EA				
0580	610.08 PLAIN RIPRAP	250.000 CY				
0590	613.319 EROSION CONTROL BLANKET	2000.000 SY				
0600	615.07 LOAM	200.000 CY				

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			DOLLARS	CTS	DOLLARS	CTS
0610	618.1401 SEEDING METHOD NUMBER 2 - PLAN QUANTITY	150.000 UN				
0620	619.1201 MULCH - PLAN QUANTITY	150.000 UN				
0630	619.1401 EROSION CONTROL MIX	250.000 CY				
0640	620.58 EROSION CONTROL GEOTEXTILE	500.000 SY				
0650	627.18 12 " SOLID WHITE PAVEMENT MARKING	3300.000 LF				
0660	627.744 6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	215000.000 LF				
0670	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	3000.000 SF				
0680	627.781 TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	215000.000 LF				
0690	629.05 HAND LABOR, STRAIGHT TIME	10.000 HR				
0700	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	15.000 HR				

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			DOLLARS	CTS	DOLLARS	CTS
0710	631.122 MINI ALL-PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20.000 HR				
0720	631.133 SKID STEER (INCLUDING OPERATOR)	35.000 HR				
0730	631.14 GRADER (INCLUDING OPERATOR)	15.000 HR				
0740	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	50.000 HR				
0750	631.18 CHAIN SAW RENTAL (INCLUDING OPERATOR)	5.000 HR				
0760	631.22 FRONT END LOADER (INCLUDING OPERATOR)	15.000 HR				
0770	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	10.000 HR				
0780	639.18 FIELD OFFICE TYPE A	1.000 EA				
0790	645.306 FLEXIBLE REFLECTORIZED DELINEATOR	300.000 EA				
0800	652.30 FLASHING ARROW BOARD	2.000 EA				
0810	652.33 DRUM	250.000 EA				

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			DOLLARS	CTS	DOLLARS	CTS
0820	652.34 CONE	300.000 EA				
0830	652.35 CONSTRUCTION SIGNS	1800.000 SF				
0840	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	147.000 CD				
0850	652.38 FLAGGER	50.000 HR				
0860	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	2.000 EA				
0870	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0880	659.10 MOBILIZATION	LUMP	LUMP			
0890	890.01 SPECIAL WORK #1	LUMP	LUMP			
	TOTAL BID					

SPECIAL PROVISION
SECTION 890
SPECIAL WORK ORDER # 1
Weigh-In-Motion

Description

IN-ROAD AXLE/WIM SENSORS

Piezoelectric axle sensors are to be considered a critical part of the AVC/WIM turnkey site installations and therefore are to be included in the bid by the counter supplier. The piezoelectric axle sensors do not need to be manufactured by the counter manufacturer; however they must be completely compatible with the counter and related equipment. All sensors shall be supplied with sufficient grout and associated hardware for proper installation.

The piezoelectric axle sensors must be Class I piezo Quartz axle sensors and must provide an output capable of use for the purpose of ASTM Type II weigh-in-motion data collection. Two 2-meter quartz sensors will be supplied per lane.

Any temperature compensation device required by the piezoelectric sensor itself must be supplied and installed at no additional cost to insure proper operation and correct data collection.

The sensor shall provide a consistent voltage output signal when a vehicle axle makes multiple passes over it, and shall have shielded transmission cable attached that meets the following requirements:

- 1) The sensor constant sensitivity repeatability shall be +/- 7%.
- 2) Working temperature range shall be -15 degrees F to 160 degrees F (-25 C to 70 C).
- 3) The length of each wheel path sensor length shall be 2 meters.
- 4) The Shielded Transmission Cable shall be a coaxial cable,
- 5) **OPERATION & INSTALLATION**: Vendor shall provide recommended installation procedures & schematics, as well as identify any modifications necessary to interface with our existing sensor arrays.

EXAMPLES:

- 1 . Kistler Quartz – 2 meter sensors ; two per lane or 1 2 meter sensor

Method of Measurement. This item shall be paid for as a Lump Sum payment.

Method of Payment. Payment for this item shall be full compensation for furnishing of four sets of the quartz sensors, installation of the devices on the roadway and any incidentals required to make the system perform as stated on the accompanying plan sheet.

<u>Pay Item</u>		<u>Pay Unit</u>
890.01	Special Work Order #1	LS

Special Work order # 1
Plan Sheet
WIM (Weigh-in-motion) sites are to be installed to these dimensions

Loop saw cut to be 2 inch deep by 3/8 inch wide

Lead in saw cuts to be 2 inches deep by 3/8 inch wide

Wires to be held in bottom of saw cut prior to installing sealant by Styrofoam backer rod

Loops are to be centered in the lane, 6 feet by 6 feet with 4 turns of wire in IMSA loop duct

Loop lead in wires from controller box are to be twisted and routed separately to each loop for each travel lane.

Sensor wires will not be routed with loop wires, and will be separated from other sensor wires so as to minimize damage to sensor wires not needing replacement

Trailing edge of loop to trailing edge of loop is to be 12 feet

Sensors to be located 13 inches downstream of trailing edge of loop.

Leading edge to leading edge of sensor is to be 12 feet

Center line sensor must be located in advance of shoulder sensor according to travel direction

Sensors shall be installed in new pavement northbound and existing pavement southbound. It is intended that configuration below is installed in the two northbound lanes and the two southbound lanes.

MaineDOT staff to mark location during construction. Call Ron Cote, MaineDOT WIM Program Coordinator prior to installation. He can be reached via e-mail at ron.cote@maine.gov or via phone at (207) - 446-2305.

