Updated 10/18/07

STATE PROJECT

BIDDING INSTRUCTIONS

FOR ALL PROJECTS:

- 1. Use pen and ink to complete all paper Bids.
- 2. As a minimum, the following must be received prior to the time of Bid opening:

For a Paper Bid:

a) a copy of the Notice to Contractors, b) the completed Acknowledgement of Bid Amendments form, c) the completed Schedule of Items, d) two copies of the completed and signed Contract Offer, Agreement & Award form, e) a Bid Guaranty, and f) any other certifications or Bid requirements listed in the Bid Documents as due by Bid opening.

For an Electronic Bid:

a) a completed Bid using Expedite® software and submitted via the Bid ExpressTM webbased service, b) a Bid Guaranty (as described below) or a faxed copy of a Bid Bond (with original to be delivered within 72 hours), and c) any other certifications or Bid requirements listed in the Bid Documents as due by Bid opening.

- 3. Include prices for all required items in the Schedule of Items. ("Zero is not considered a Bid price.")
- 4. Include a Bid Guaranty. Acceptable forms are:
 - a. a properly completed and signed Bid Bond on the Department's prescribed form (or on a form that does not contain any significant variations from the Department's form as determined by the Department) for 5% of the Bid Amount or
 - b. an Official Bank Check, Cashier's Check, Certified Check, U.S. Postal Money Order or Negotiable Certificate of Deposit in the amount stated in the Notice to Contractors.
- 5. If a paper Bid is to be sent, Federal Express overnight delivery is suggested as the package is delivered directly to the DOT Headquarters Building located at 16 Child Street in Augusta. Other means, such as U.S. Postal Service's Express Mail has proven not to be reliable.

IN ADDITION, FOR FEDERAL AID PROJECTS:

6. Complete the DBE Proposed Utilization form in the proper amounts, and deliver to the Civil Rights Office, or fax to (207)624-3431 by 4:30 PM on bid opening day.

If you need further information regarding Bid preparation, call the DOT Contracts Section at (207)624-3410.

For complete bidding requirements, refer to Section 102 of the Maine Department of Transportation, Standard Specifications, Revision of December 2002.

NOTICE

The Maine Department of Transportation is attempting to improve the way Bid Amendments/Addendums are handled, and allow for an electronic downloading of bid packages from our website, while continuing to maintain a planholders list.

Prospective bidders, subcontractors or suppliers who wish to download a copy of the bid package and receive a courtesy notification of project specific bid amendments, must provide an email address to Diane Barnes or Mike Babb at the MDOT Contracts mailbox at: <u>MDOT.contracts@maine.gov</u>. Each bid package will require a separate request.

Additionally, interested parties will be responsible for reviewing and retrieving the Bid Amendments from our web site, and acknowledging receipt and incorporating those Bid Amendments in their bids using the Acknowledgement of Bid Amendment Form.

The downloading of bid packages from the MDOT website is <u>not</u> the same as providing an electronic bid to the Department. Electronic bids must be submitted via <u>http://www.BIDX.com</u>. For information on electronic bidding contact Larry Childs at <u>Larry.Childs@maine.gov</u>.

NOTICE

For security and other reasons, all Bid Packages which are mailed, shall be provided in double (one envelope inside the other) envelopes. The *Inner Envelope* shall have the following information provided on it:

Bid Enclosed - Do Not Open PIN: Town: Date of Bid Opening: Name of Contractor with mailing address and telephone number:

In Addition to the usual address information, the *Outer Envelope* should have written or typed on it:

Double Envelope: Bid Enclosed PIN: Town: Date of Bid Opening: Name of Contractor: *This should not be much of a change for those of you who use Federal Express or similar services.*

Hand-carried Bids may be in one envelope as before, and should be marked with the following infrormation:

Bid Enclosed: Do Not Open PIN: Town: Name of Contractor:

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

Bid Guaranty-Bid Bond Form

KNOW ALL MEN BY THESE PRESENTS THAT		
, of the City/Town of	ofand	State of
as Principal, and		as Surety, a
Corporation duly organized under the laws of the State	ofand havin	ng a usual place of
Business inand hereb	y held and firmly bound unto	the Treasurer of
the State of Maine in the sum of	_,for payment which Principa	l and Surety bind
themselves, their heirs, executers, administrators, succe	ssors and assigns, jointly and	severally.
The condition of this obligation is that the Principal has	submitted to the Maine Depa	rtment of
Transportation, hereafter Department, a certain bid, atta	ched hereto and incorporated	as a
part herein, to enter into a written contract for the const	ruction of	
a	nd if the Department shall acc	cept said bid
and the Principal shall execute and deliver a contract in	the form attached hereto (pro	perly
completed in accordance with said bid) and shall furnish	n bonds for this faithful perfor	rmance of
said contract, and for the payment of all persons perform	ning labor or furnishing mater	rial in
connection therewith, and shall in all other respects perf	form the agreement created by	the
acceptance of said bid, then this obligation shall be null	and void; otherwise it shall re	emain in full
force, and effect.		
Signed and sealed t	hisday of	20
WITNESS:	PRINCIPAL:	
	By	
	By:	
	By:	
WITNESS	SURETY: By	
	By:	
	Name of Local Agenc	V.

NOTICE

Bidders:

Please use the attached "Request for Information" form when faxing questions and comments concerning specific Contracts that have been Advertised for Bid. Include additional numbered pages as required. Questions are to be faxed to the number listed in the Notice to Contractors. This is the only allowable mechanism for answering Project specific questions. Maine DOT will not be bound to any answers to Project specific questions received during the Bidding phase through other processes.

State of Maine Department of Transportation

REQUEST FOR INFORMATION

Date		Time
Information Requested:	PIN:	Town(s):
Request by: Bid Date:		Phone: ()
Complete top portion of for	m and transmit to	Fax: ()
n		
Response By:_		Date:

Vendor Registration

Prospective Bidders must register as a vendor with the Department of Administrative & Financial Services if the vendor is awarded a contract. Vendors will not be able to receive payment without first being registered. Vendors/Contractors will find information and register through the following link –

http://www.maine.gov/purchases/vendorinfo/vss.htm .

STATE OF MAINE DEPARTMENT OF TRANSPORTATION NOTICE TO CONTRACTORS

Sealed Bids addressed to the Maine Department of Transportation, Augusta, Maine 04333 and endorsed on the wrapper "Bids for Highway Reconstruction in the town of <u>Dover-Foxcroft</u>" will be received from contractors at the Reception Desk, Maine DOT Building, Child Street, Augusta, Maine, until 11:00 o'clock A.M. (prevailing time) on <u>January 24, 2009</u> and at that time and place publicly opened and read. Bids will accepted from all bidders. The lowest responsive bidder must have completed, or successfully complete, a (<u>Highway Construction prequalification</u>, or project specific prequalification to be considered for the award of this contract. We now accept electronic bids for those bid packages posted on the bidx.com website. Electronic bids do not have to be accompanied by paper bids. <u>Please note: the Department will accept a facsimile of the bid bond; however, the original bid bond must then be received at the MDOT Contract Section within 72 hours of the bid opening.</u> Until further notice, dual bids (one paper, one electronic) will be accepted, with the paper copy taking precedence.

Description: Maine State Aid Project No. STP-9199(00)X, PIN. 9199.00

Location: In Piscataquis County, project is located on Rte's. 6/15/16 from approx. Sanford St. extending easterly approx. 0.72 mi, to Lincoln St.

Outline of Work: Grading, drainage, base, hot mix asphalt, water utilities, planting trees and shrubs, and other incidental work.

The basis of award will be Section 0001 only

For general information regarding Bidding and Contracting procedures, contact Scott Bickford at (207)624-3410. Our webpage at http://www.maine.gov/mdot/contractor-consultant-information/contractor_cons.php contains a copy of the schedule of items, Plan Holders List, written portions of bid amendments (not drawings), and bid results. For Project-specific information fax all questions to Project Manager Emie Martin at (207)624-3431. Questions received after 12:00 noon of Monday prior to bid date will not be answered. Bidders shall not contact any other Departmental staff for clarification of Contract provisions, and the Department will not be responsible for any interpretations so obtained. Hearing impaired persons may call the Telecommunication Device for the Deaf at 888-516-9364.

Plans, specifications and bid forms may be seen at the Maine DOT Building in Augusta, Maine and at the Department of Transportation's Regional Office in Bangor. They may be purchased from the Department between the hours of 8:00 a.m. to 4:30 p.m. by cash, credit card (Visa/Mastercard) or check payable to Treasurer, State of Maine sent to Maine Department of Transportation, <u>Attn.: Mailroom</u>, 16 State House Station, Augusta, Maine 04333-0016. They also may be purchased by telephone at (207) 624-3536 between the hours of 8:00 a.m. to 4:30 p.m. Full size plans \$121.00 (\$128.00 by mail). Half size plans \$61.00 (\$65.00 by mail), Bid Book \$10 (\$13 by mail). Single Sheets \$2, payment in advance, all non-refundable.

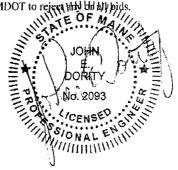
Each Bid must be made upon blank forms provided by the Department and must be accompanied by a bid bond at 5% of the bid amount or an official bank check, cashier's check, certified check, certificate of deposit, or United States postal money order in the amount of \$80,000.00 payable to Treasurer, State of Maine as a Bid guarantee. A Contract Performance Surety Bond and a Contract Payment Surety Bond, each in the amount of 100 percent of the Contract price, will be required of the successful Bidder.

This Contract is subject to all applicable Federal Laws. This contract is subject to compliance with the Disadvantaged Business Enterprise program requirements as set forth by the Maine Department of Transportation.

All work shall be governed by "State of Maine, Department of Transportation, Standard Specifications, Revision of December 2002", price \$10 [\$13 by mail], and Standard Details, Revision of December 2002, price \$20 [\$25 by mail]. Standard Detail updates found at http://www.maine.gov/mdot/contractor-consultant-information/contractor_cons.php

The right is hereby reserved to the MDOT to reject htt bit by pids.

Augusta, Maine December 31, 2008



JOHN E. DORITY CHIEF ENGINEER ÷

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SPECIAL PROVISION 102.7.3 ACKNOWLEDGMENT OF BID AMENDMENTS

With this form, the Bidder acknowledges its responsibility to check for all Amendments to the Bid Package. For each Project under Advertisement, Amendments are located at <u>http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php</u> It is the responsibility of the Bidder to determine if there are Amendments to the Project, to download them, to incorporate them into their Bid Package, and to reference the Amendment number and the date on the form below. The Maine DOT will not post Bid Amendments any later than noon the day before Bid opening without individually notifying all the planholders.

Amendment Number	Date

The Contractor, for itself, its successors and assigns, hereby acknowledges that it has received all of the above referenced Amendments to the Bid Package.

CONTRACTOR

Date

Signature of authorized representative

(Name and Title Printed)

PAGE: 1 DATE: 081229 **REVISED:**

SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :_____

LINE	ITEM	APPROX.	UNIT PRICE	BID AMOUNT
NO 	DESCRIPTION	QUANTITY AND UNITS	 DOLLARS CTS	DOLLARS CTS

SECTION 0001 HIGHWAY ITEMS

	201.23 REMOVING SINGLE TREE TOP ONLY	 EA	24.000			
0020	201.24 REMOVING STUMP	 EA	31.000			
	202.202 REMOVING PAVEMENT SURFACE	 M2	605.000			
0040	203.20 COMMON EXCAVATION	 мз	11000.000			
0050	203.25 GRANULAR BORROW	 мз	100.000			
0060	206.061 STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	 мз 	100.000			
0070	206.07 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES	 M3	125.000		 	
	304.08 AGGREGATE BASE COURSE - SCREENED	 мз	5600.000			
	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	 мз	6300.000			
	403.208 HOT MIX ASPHALT 12.5 MM, SURFACE	 MG	1800.000			

PAGE: 2 DATE: 081229 **REVISED:**

SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :_

LINE NO	ITEM DESCRIPTION	APPROX.	UNIT PR	·	BID AM	
0110	 403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	AND UNITS 	DOLLARS 	CTS 	DOLLARS 	CT
	403.213 HOT MIX ASPHALT 12.5 MM, BASE	 3350.000 MG	 	 		
	409.15 BITUMINOUS TACK COAT APPLIED 	 1400.000 L	 			
	411.09 UNTREATED AGGREGATE SURFACE COURSE	 100.000 M3	 			
	502.3412 STRUCTURAL CONCRETE, RAISED ISLAND	 5.000 M3	 			
0160	502.56 CONCRETE FILL	 90.000 M3	 			
	603.159 300 MM CULVERT PIPE OPTION III	 70.000 M) 			
	603.169 375 MM CULVERT PIPE OPTION III	 210.000 M) 		 	
	603.17 450 MM CULVERT PIPE OPTION I	 30.000 м				
	603.179 450 MM CULVERT PIPE OPTION III	 70.000 M				
	604.072 CATCH BASIN TYPE A1-C 	 45.000 EA				

PAGE: 3 DATE: 081229 **REVISED:**

SCHEDULE OF ITEMS

0320 TYPE 1 - 2.1 METER

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :____ _____ LINE APPROX. | UNIT PRICE | BID AMOUNT ITEM NO | ----604.18 ADJUSTING MANHOLE 0220 OR CATCH BASIN TO GRADE | 19.000 | EA ------604.246 CATCH BASIN TYPE 0230 F5 1.000 EA _____ 604.252 CATCH BASIN TYPE 1.000 0240 A5-C EA 605.09 150 MM UNDERDRAIN 1650.000 0250 **TYPE** B M 605.11 300 MM UNDERDRAIN 400.000 0260 TYPE C M _____ 605.12 375 MM UNDERDRAIN 430.000 0270 TYPE C M 605.13 450 MM UNDERDRAIN 0280 TYPE C 270.000 M 609.11 VERTICAL CURB 2630.000 0290 TYPE 1 M 609.12 VERTICAL CURB 140.000İ 0300 TYPE 1 - CIRCULAR M 609.234 TERMINAL CURB 96.000 0310 TYPE 1 - 1.2 METER EA

609.237 TERMINAL CURB

76.000

EA

PAGE: 4 DATE: 081229 **REVISED:**

SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT PRICE	BID AMOUNT
		AND UNITS	DOLLARS CT	S DOLLARS CTS
0330	609.31 CURB TYPE 3 	 10.00 M	0 	
	609.441 CURBING REMOVED AND STACKED 	 71.00 M	 0	
0350	610.08 PLAIN RIPRAP 	 20.00 M3	0 	
	610.18 STONE DITCH PROTECTION	 125.00 M3	0	
0370	615.07 LOAM 	 500.00 M3	0 	
	618.1301 SEEDING METHOD NUMBER 1 - PLAN QUANTITY 	 60.00 UN	0 	
0390	619.1201 MULCH - PLAN QUANTITY 	 60.00 UN	o	
	620.56 DRAINAGE GEOTEXTILE 	 2000.00 M2	0 	
0410	620.58 EROSION CONTROL GEOTEXTILE 	 20.00 M2	o	
0420	621.025 EVERGREEN TREES (900 MM - 1200 MM) GROUP A	 5.00 EA	o	
	621.026 EVERGREEN TREES (900 MM - 1200 MM) GROUP B	 5.00 EA	0 	

PAGE: 5 DATE: 081229 **REVISED:**

SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :_____

LINE		APPROX.	UNIT PRICE	BID AMOUNT
NO 	DESCRIPTION	QUANTITY AND UNITS	DOLLARS CTS	DOLLARS CT
0440	621.195 MEDIUM DECIDUOUS TREE (45 MM - 50 MM CALIPER) GROUP A	 7.00 EA	0 	
0450	621.196 MEDIUM DECIDUOUS TREE (45 MM - 50 MM CALIPER) GROUP B	 5.00 EA	0 	
0460	621.267 LARGE DECIDUOUS TREE (45 MM - 50 MM CALIPER) GROUP A	 5.00 EA	0 	
	621.285 LARGE DECIDUOUS TREE (75 MM - 90 MM CALIPER) GROUP A	 1.00 EA	 0	
	627.18 300 MM SOLID WHITE PAVEMENT MARK LINE 	 3000.00 M	0 	
0490	627.711 WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE (PLAN QUANTITY)	 3000.00 M	 0 	
0500	627.76 TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	 LUMP 	 LUMP 	
0510	629.05 HAND LABOR, STRAIGHT TIME 	 50.00 HR	0 	
0520	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	 10.00 HR	0 	
0530	631.11 AIR TOOL (INCLUDING OPERATOR) 	 10.00 HR	0	
0540	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	 10.00 HR	0 	

PAGE: 6 DATE: 081229 **REVISED:**

SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRIC	I ['] -	BID AM	
	 631.132 SMALL BULLDOZER (INCLUDING OPERATOR) 	10.000 HR	 	 	 	
	631.14 GRADER (INCLUDING OPERATOR) 	 10.000 HR	 	 	 	
	631.172 TRUCK - LARGE (INCLUDING OPERATOR) 	 10.000 HR		 	 	
	631.18 CHAIN SAW RENTAL (INCLUDING OPERATOR) 	 10.000 HR	 	 	 	
	631.20 STUMP CHIPPER (INCLUDING OPERATOR) 	 10.000 HR	 	 	 	
	631.32 CULVERT CLEANER (INCLUDING OPERATOR) 	 10.000 HR	 	 	 	
0610	639.18 FIELD OFFICE TYPE A 	 1.000 EA	 	 	 	
	642.17 CAST-IN-PLACE CONCRETE STEPS 	 1.000 M3	 	 	 	
	642.181 REMOVE AND RESET GRANITE STEPS	 12.000 EA	 	 	 	
0640	652.33 DRUM 	 100.000 EA	 	 	 	
0650	652.34 CONE	 100.000 EA		 	 	

PAGE: DATE: 081229 **REVISED:**

SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :___ UNIT PRICE LINE APPROX. BID AMOUNT ITEM QUANTITY AND UNITS NO DESCRIPTION |-----|-----| | DOLLARS | CTS | DOLLARS | CTS _____ 652.35 CONSTRUCTION 1 100.000İ 0660 SIGNS 1 M2 652.361 MAINTENANCE OF LUMP 0670 TRAFFIC CONTROL DEVICES |LUMP 652.38 FLAGGER 0680 8000.000 HR 656.75 TEMPORARY SOIL 0690 EROSION AND WATER LUMP LUMP POLLUTION CONTROL 658.20 ACRYLIC LATEX 100.000 0700 COLOR FINISH, GREEN M2 659.10 MOBILIZATION 0710 LUMP LUMP 660.21 ON-THE-JOB 0720 TRAINING (BID) 1000.000 HR L SECTION 0001 TOTAL SECTION 0002 SEWER ITEM ALT GROUP OP3 812.162 ADJUST SEWER 13.000 0730 MANHOLE TO GRADE EA SECTION 0002 TOTAL SECTION 0003 WATER UTILITY ALT GROUP OP1

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SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :_

	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT PRICE	BID AMOUNT
	DESCRIPTION		DOLLARS CTS	DOLLARS CT
	822.33 150 MM CLASS 52 DI PIPE 	 53.000 M		
	822.34 200 MM CLASS 52 DI PIPE 	 62.000 M		
	822.36 300 MM CLASS 52 DI PIPE 	 1331.000 M		
0770	823.31 300 MM GATE VALVE 	 17.000 EA		
	823.3211 250 MM INSERTABLE GATE VALVE 	 1.000 EA		
	823.3222 250 MM X 250 MM TAPPING SLEEVE & VALVE 	 1.000 EA		
	823.325 200 MM GATE VALVE 	 3.000 EA		
	823.331 150 MM GATE VALVE 	 4.000 EA		
0820	824.30 FIRE HYDRANTS 	 8.000 EA		
	825.311 19 MM CORPORATION 	 57.000 EA		
0840	825.312 19 MM CURB STOP 	 57.000 EA		

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SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :____ _____ LINE APPROX. | UNIT PRICE | BID AMOUNT ITEM DESCRIPTION
 QUANTITY

 AND UNITS
 DOLLARS

 CTS
 DOLLARS
 NO _____ ------825.32 50 MM CORPORATION 4.000 0850 _____I EA _____ 825.322 50 MM CURB STOP 4.000 0860 EA _____ 825.41 19 MM COPPER 581.000 0870 SERVICE M 825.42 50 MM COPPER 23.000 0880 SERVICE M _____ 827.301 ROCK EXCAVATION 261.500 0890 WATER MAIN M3 -----827.33 TRENCH INSULATION 0900 23.000 M

SECTION 0003 TOTAL

SECTION 0004 WATER UTILITY

ALT GROUP OP2

822.33 150 MM C DI PIPE	l	7.000 M	
822.34 200 MM C DI PIPE	ļ	42.000 M	
822.36 300 MM C DI PIPE	ļ	530.000 M	

REVISED:

PAGE: 10 DATE: 081229 **REVISED:**

SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX.	UNIT PF	RICE	BID AM	IOUNT
	DESCRIPTION	QUANTITY AND UNITS	DOLLARS	CTS	DOLLARS	CT
0940	823.31 300 MM GATE VALVE 	 8.00 EA	0			
	823.3211 250 MM INSERTABLE GATE VALVE 	 1.00 EA	 0 			
	823.3222 250 MM X 250 MM TAPPING SLEEVE & VALVE 	 1.00 EA	0 			
	823.325 200 MM GATE VALVE 	 2.00 EA	0 			
	823.331 150 MM GATE VALVE 	 1.00 EA	0 			
0990	824.30 FIRE HYDRANTS 	 4.00 EA	 0 			
	825.311 19 MM CORPORATION 	 27.00 EA	0 			
1010	825.312 19 MM CURB STOP 	 27.00 EA	o 			
1020	825.32 50 MM CORPORATION	 3.00 EA	0			
1030	825.322 50 MM CURB STOP 	 3.00 EA	 0 			
	825.41 19 MM COPPER SERVICE 	 315.00 M	o			

SCHEDULE OF ITEMS

CONTRACT ID: 009199.00 PROJECT(S): STP-9199(00)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT PRICE	BID AMOUNT DOLLARS CTS
 1050	 825.42 50 MM COPPER SERVICE 	AND UNITS 23.00 M	DOLLARS CTS 	
1060	827.301 ROCK EXCAVATION WATER MAIN	 120.00 M3	o	
1070	827.33 TRENCH INSULATION	 10.00 M	0	
	 SECTION 0004 TOTAL			
	 TOTAL BID ALL SECTIONS			

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

a corporation or other legal entity organized under the laws of the State of ______, with its principal place of business located at ______

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, PIN No. <u>9199.00</u>, for <u>Highway</u> <u>Reconstruction</u> in the town of <u>Dover- Foxcroft</u>, County of <u>Piscataquis</u>, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **November 14, 2009.** Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002 and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 0001 \$		
Section 0002 \$		
Section 0003 \$		
Section 0004 \$		

Performance Bond and Payment Bond each being 100% of the amount awarded under this Contract (see award amount in Section G below).

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

- 1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the Standard Specifications Revision of December 2002 (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
- 2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
- 3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **PIN 9199.00** - **Highway Reconstruction** - **in the town of Dover- Foxcroft**, State of Maine, on which bids will be received until the time specified in the "Notice to Contractors" do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached "Schedule of Items".

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached "Schedule of Items" in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached "Schedule of Items", which may be ordered by the Resident, and to accept as full compensation the amount determined upon a "Force Account" basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier's check, certificate of deposit or U. S. Postal Money Order in the amount given in the "Notice to Contractors", payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the Standard Specifications Revision of December 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan by 4:30pm on the day of bid opening to the Contracts Engineer.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

Date

(Signature of Legally Authorized Representative of the Contractor)

Witness

(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

Section 0001 Section 0002 Section 0003 Section 0004 Section 0004

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: David A. Cole, Commissioner

Witness

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

a corporation or other legal entity organized under the laws of the State of ______, with its principal place of business located at ______

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, PIN No. <u>9199.00</u>, for <u>Highway</u> <u>Reconstruction</u> in the town of <u>Dover-Foxcroft</u>, County of <u>Piscataquis</u>, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **November 14, 2009.** Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002 and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 0001 \$		
Section 0002 \$		
Section 0003 \$		
Section 0004 \$		

Performance Bond and Payment Bond each being 100% of the amount awarded under this Contract (see award amount in Section G below).

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

- 1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the Standard Specifications Revision of December 2002 (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
- 2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
- 3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **PIN 9199.00** - **Highway Reconstruction** - **in the town of Dover- Foxcroft**, State of Maine, on which bids will be received until the time specified in the "Notice to Contractors" do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached "Schedule of Items".

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached "Schedule of Items" in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached "Schedule of Items", which may be ordered by the Resident, and to accept as full compensation the amount determined upon a "Force Account" basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier's check, certificate of deposit or U. S. Postal Money Order in the amount given in the "Notice to Contractors", payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the Standard Specifications Revision of December 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan by 4:30pm on the day of bid opening to the Contracts Engineer.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

Date

(Signature of Legally Authorized Representative of the Contractor)

Witness

(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

Section 0001 Section 0002 Section 0003 Section 0004 Section 0004

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: David A. Cole, Commissioner

Witness

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and <u>(Name of the firm bidding the job)</u> a corporation or other legal entity organized under the laws of the State of Maine, with its principal place of business located at <u>(address of the firm bidding the job)</u>

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, PUN No.<u>1224.00</u>, for the <u>Hot</u> <u>Mix Asphalt Overlay</u> in the town/city of <u>South Nowhere</u>, County of <u>Washington</u>, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **November 15, 2006.** Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002 and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is _____(Place bid here in alphabetical form such as One Hundred and Two dollars and 10 cents)

<u>\$ (repeat bid here in numerical terms, such as \$102.10)</u> Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

- 1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the Standard Specifications Revision of December 2002 (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
- 2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
- 3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of:

PIN 1234.00 South Nowhere, Hot Mix Asphalt Overlay

State of Maine, on which bids will be received until the time specified in the "Notice to Contractors" do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached "Schedule of Items".

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached "Schedule of Items" in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First. To do any extra work, not covered by the attached "Schedule of Items", which may be ordered by the Resident, and to accept as full compensation the amount determined upon a "Force Account" basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier's check, certificate of deposit or U. S. Postal Money Order in the amount given in the "Notice to Contractors", payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the Standard Specifications Revision of 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan by 4:30pm on the day of bid opening to the Contracts Engineer.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents

CONTRACTOR (Sign Here) (Signature of Legally Authorized Representative Date of the Contractor) (Print Name Here) (Witness Sign Here (Name and Title Printed) Witnes G. Award.

Your offer is hereby accepted. The documents referenced herein.

This award consummates the Contract, and the

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: David A. Cole, Commissioner

(Witness)

BOND	#
------	---

CONTRACT PERFORMANCE BOND (Surety Company Form)

KNOW ALL MEN BY THESE PRESENT	S: That
	f, as principal,
	,
	ws of the State of and having a
1	,
as Surety, are held and firmly bound unto	the Treasurer of the State of Maine in the sum
of	and 00/100 Dollars (\$),
to be paid said Treasurer of the State of	Maine or his successors in office, for which
payment well and truly to be made, Prine	cipal and Surety bind themselves, their heirs,
executors and administrators, successors	and assigns, jointly and severally by these
presents.	
-	nat if the Principal designated as Contractor in
	in the Municipality of
	faithfully performs the Contract, then this
obligation shall be null and void; otherwise	e it shall remain in full force and effect.
The Surety hereby waives notice of any alt	teration or extension of time made by the State
of Maine.	crution of extension of time made by the state
Signed and sealed this	day of, 20
WITNESSES:	SIGNATURES:
	CONTRACTOR:
Signature	
Print Name Legibly	Print Name Legibly
	SURETY:
Signature	
Print Name Legibly	Print Name Legibly
SURETY ADDRESS:	NAME OF LOCAL AGENCY:
	ADDRESS
TELEPHONE	

BOND #_____

CONTRACT PAYMENT BOND (Surety Company Form)

KNOW ALL MEN BY THESE PRESENTS: That _____

and the State	e of, as principal,
a corporation duly organized under the law	s of the State of and having a
usual place of business in	,
as Surety, are held and firmly bound unto t	he Treasurer of the State of Maine for the use
and benefit of claimants as here	ein below defined, in the sum of
	and 00/100 Dollars (\$)
for the payment whereof Principal and Sure	ety bind themselves, their heirs, executors and
administrators, successors and assigns, joint	tly and severally by these presents.
The sendition of this ships tion is such the	
	at if the Principal designated as Contractor in
	ber in the Municipality of
	tisfies all claims and demands incurred for all
	in connection with the work contemplated by
	bligee for all outlay and expense which the
	ult of said Principal, then this obligation shall
be null and void; otherwise it shall remain it	n full force and effect.
A claimant is defined as one having a	direct contract with the Principal or with a
Subcontractor of the Principal for labor, ma	aterial or both, used or reasonably required for
use in the performance of the contract.	
-	ny of, 20
WITNESS:	SIGNATURES:
~.	CONTRACTOR:
Print Name Legibly	Print Name Legibly
	SURETY:
e	
Print Name Legibly	
SURETY ADDRESS:	NAME OF LOCAL AGENCY:
	ADDRESS
TELEPHONE	
•	V111

SPECIAL PROVISION <u>SECTION 102.3</u> EXAMINATION OF DOCUMENTS, SITE AND OTHER INFORMATION (Geotechnical Information)

Geotechnical Information pertaining to this project has been collected and assembled. Bidders and Contractors are obligated to examine and, if necessary, obtain geotechnical information. Geotechnical Information is available at the Maine Department of Transportation office on Child Street, Augusta, Maine. Geotechnical Information will be provided to interested parties who request this information. Requests for this information should be directed to the Project Manager as outlined in the "Notice to Contractors".

The Department shall not be responsible for Bidder's and Contractor's interpretations of, or estimates or conclusions drawn from, the Geotechnical Information. Data provided may not be representative of the subsurface conditions between the boring locations.

This section does not diminish the duties imposed upon parties in Section 102 or in any other sections.

Wage Determination - In accordance with 26 MRSA §1301 et. seq., this is a determination by the Bureau of Labor Standards, of the fair minimum wage rate to be paid laborers and workers employed on the below titled project.

Title of Project ------

Location of Project --

2008 Fair Minimum Wage Rates Highway & Earthwork Piscataquis County

	Minimum	Minimum			Minimum	Minimum	
Occupation Title	Wage	<u>Benefit</u>	Total	Occupation Title	Wage	Benefit	Total
Asphalt Raker	\$13.75	\$3.36	\$17.11	Hot Top Plant Operator	\$17.58	\$7.17	\$24.75
Backhoe Loader Operator	\$14.90	\$1.96	\$16.86	Ironworker - Reinforcing	\$17.88	\$2.97	\$20.85
Blaster	\$17.60	\$3.92	\$21.52	Ironworker - Structural	\$20.15	\$4.96	\$25.11
Boom Truck Operator	\$18.50	\$3.49	\$21.99	Laborers/Helper/Tender	\$11.00	\$1.06	\$12.06
Bulldozer Operator	\$15.00	\$4.72	\$19.72	Laborer - Skilled	\$13.00	\$2.18	\$15.18
Cable Splicer	\$20.65	\$3.88	\$24.53	Loader Op, Front-End	\$14.71	\$3.07	\$17.78
Carpenter	\$17.00	\$1.81	\$18.81	Mechanic - Maintenance	\$16.00	\$4.23	\$20.23
Carpenter - Rough	\$14.75	\$1.50	\$16.25	Millwright	\$22.00	\$6.18	\$28.18
Cement Mason/Finisher	\$13.00	\$0.64	\$13.64	Painter	\$13.50	\$0.48	\$13.98
Concrete Mixing Plant Op	\$15.85	\$6.78	\$22.63	Paver, Bituminous	\$16.38	\$3.61	\$19.99
Concrete Pump Operator	\$18.50	\$2.85	\$21.35	Pipe/Steam/Sprinkler Fitter	\$19.55	\$4.14	\$23.69
Crane Op =>15 Tons	\$20.00	\$4.68	\$24.68	Pipelayer	\$13.00	\$2.83	\$15.83
Crusher Plant Operator	\$14.00	\$3.10	\$17.10	Roller Operator, Earth	\$12.97	\$4.20	\$17.17
Driller, Rock	\$17.00	\$4.45	\$21.45	Roller Op, Pavement	\$17.58	\$8.30	\$25.88
Electrician, Licensed	\$21.00	\$5.39	\$26.39	Screed Operator	\$17.75	\$5.72	\$23.47
Electrician Hlpr (Licensed)	\$15.00	\$2.44	\$17.44	Stone Mason	\$16.00	\$2.26	\$18.26
Excavator Operator	\$16.00	\$3.91	\$19.91	Truck Driver, Light	\$14.38	\$2.77	\$17.15
Fence Setter	\$12.00	\$1.55	\$13.55	Truck Driver, Medium	\$13.05	\$4.11	\$17.16
Flagger	\$12.50	\$1.50	\$14.00	Truck Driver, Heavy	\$11.85	\$1.79	\$13.64
Grader/Scraper Operator	\$17.58	\$2.60	\$20.18	Truck Driver, Tractor Trlr	\$13.15	\$6.63	\$19.78
Hgway Wrkr/Guardrail Inst	\$14.10	\$1.55	\$15.65	Truck Driver, Mixer, Cemnt	\$11.00	\$1.78	\$12.78

The Laborer classifications include a wide range of work duties. Therefore, if any specific occupation to be employed on this project is not listed in this determination, call the Bureau of Labor Standards at the above number for further clarification.

Welders are classified in the trade to which the welding is incidental.

Apprentices - The minimum wage rate for registered apprentices are those set forth in the standards and policies of the Maine State Apprenticeship and Training Council for approved apprenticeship programs.

Posting of Schedule - Posting of this schedule is required in accordance with 26 MRSA §1301 et. seq., by any contractor holding a State contract for construction valued at \$50,000 or more and any subcontractors to such a contractor.

Appeal - Any person affected by the determination of these rates may appeal to the Commissioner of Labor by filing a written notice with the Commissioner stating the specific grounds of the objection within ten (10) days from the filing of these rates with the Secretary of State.

Determination No:	HI-000-2008	A true copy
Filing Date:	, 2008	Attest:
9		William A. Peabody
Expiration Date:	12-31-2008	Director
		Bureau of Labor Standards

29

BLS 424HI (R2008) (Highway & Earthwork Piscataquis)

Non-federal Projects Only

NOTICE TO CONTRACTORS - PREFERRED EMPLOYEES

Sec. 1303. Public Works; minimum wage

In the employment of laborers in the construction of public works, including state highways, by the State or by persons contracting for the construction, preference must first be given to citizens of the State who are qualified to perform the work to which the employment relates and, if they can not be obtained in sufficient numbers, then to citizens of the United States. Every contract for public works construction must contain a provision for employing citizens of this State or the United States. The hourly wage and benefit rate paid to laborers employed in the construction of public works, including state highways, may not be less than the fair minimum rate as determined in accordance with section 1308. Any contractor who knowingly and willfully violates this section is subject to a fine of not less than \$250 per employee violation. Each day that any contractor employs a laborer at less than the wage and benefit minimum stipulated in this section constitutes a separate violation of this section. [1997, c. 757, §1 (amd).]

General Decision Number: ME080009 07/25/2008 ME9

Superseded General Decision Number: ME20070009

State: Maine

Construction Type: Highway

Counties: Aroostook, Franklin, Hancock, Kennebec, Knox, Lincoln, Oxford, Piscataquis, Sagadahoc, Somerset, Waldo and York Counties in Maine.

HIGHWAY CONSTRUCTION PROJECTS excluding major bridging (for example: bascule, suspension and spandrel arch bridges; those bridging waters presently navigating or to be navigatable; and those involving marine construction in any degree); tunnels, building structures in rest area projects and railroad construction.

Modification	Number	Publication	Date
0		02/08/2008	
1		06/06/2008	
2		07/25/2008	

ENGI0004-015 04/01/2008

	Rates	Fringes
Power equipment operators: Pavers Rollers	.\$ 18.22	8.50 8.50
* SUME2000-008 10/24/2000		
	Rates	Fringes
CARPENTER	\$ 11.60	1.51
Ironworkers: Structural	\$ 12.03	1.58
Laborers: Drillers Flaggers Guardrail Installers Landscape Line Stripper Pipelayers Rakers Sign Erectors Unskilled	\$ 6.55 \$ 7.92 \$ 7.87 \$ 8.69 \$ 9.21 \$ 9.00 \$ 10.00 \$ 8.66	2.50 .16 .23 2.31 1.51 1.38 .43
Power equipment operators: Backhoes Bulldozers Cranes Excavators	\$ 12.33 \$ 14.06	2.05 2.88 1.75 2.48

31

Graders\$ 13.06	3.73
Loaders\$ 11.41	2.87
Mechanics\$ 13.18	2.57
Truck drivers:	
Dump\$ 9.35	3.10
Tri axle\$ 8.70	1.18
Two axle\$ 8.56	2.19

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

> Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request

review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

Dover- Foxcroft 9199.00 December 11, 2008

SPECIAL PROVISION <u>SECTION 104</u> (GENERAL RIGHTS AND RESPONSIBILITIES)

Contract bid documents for Water Main work Options 1 and 2 and item 812.162 Adjust Sewer Manholes to Grade shall adhere to and comply with Davis – Bacon Wages, all Federal Regulations and Requirements, DHS Special Conditions, and all USDA forms. The Highway portion of this project is State funded and shall adhere to and conform with Department of Labor wage rates and all State specifications, regulations and requirements.

SPECIAL PROVISIONS SECTION 104 Utilities

MEETING

A Preconstruction Utility Conference, as defined in Subsection 104.4.6 of the Standard Specifications **is** required.

GENERAL INFORMATION

These Special Provisions outline the arrangements that have been made by the Department for utility and/or railroad work to be undertaken in conjunction with this project. The following list identifies all known utilities or railroads having facilities presently located within the limits of this project or intending to install facilities during project construction.

Utility/Railroad	Aerial	Underground	Railroad
Central Maine Power Company	X		
Dover-Foxcroft Sewer Department		Х	
Dover-Foxcroft Water District		Х	
Fairpoint Communications	X		
Time Warner Cable	X		

Overview:

Temporary utility adjustments are **not** anticipated.

Unless otherwise specified, any underground utility facilities shown on the project plans represent approximate locations gathered from available information. The Department cannot certify the level of accuracy of this data. Underground facilities indicated on the topographic sheets (plan views) have been collected from historical records and/or on-site designations provided by the respective utility companies. Underground facilities indicated on the crosssections have been carried over from the plan view data and may also include further approximations of the elevations (depths) based upon straight-line interpolation from the nearest manholes, gate valves, or test pits.

All adjustments are to be made by the respective utility/railroad unless otherwise specified herein.

All clearing and tree removal in areas where utilities are involved must be completed before the utilities are able to relocate their facilities.

Fire hydrants shall not be disturbed until all necessary work has been accomplished to provide proper fire protection.

jms

Russ White

Steve Bossie

621-7853

AERIAL

Summary:

Utility	Pole Set	New Wires/ Cables	Trans. Wires/ Cables	Remove Poles	Estimated Working Days
Central Maine Power Company	Х	Х	Х	Х	30
Time Warner Cable		Х	Х		15
Fairpoint Communications		Х	Х		25
				Total:	70

Utility Specific Issues:

Central Maine Power Company

Any tree removal or tree trimming required within ten feet of the Central Maine Power Company conductors must be done by a contractor qualified to work within ten feet of the Central Maine Power Company conductors. A list of tree removal contractors qualified to remove trees or limbs within ten feet of Central Maine Power Company conductors may be obtained from Roy Taylor and he may be reached at (207)564-8539.

Central Maine Power has aerial facilities through the entire length of project. As part of this project, Central Maine Power intends to set the new poles as per the pole list included in this special provision. Central Maine Power estimates thirty (30) working days to set all of the new poles, transfer cables, install new cables to the new poles, and remove the abandoned poles.

Temporary support may be required for poles during excavation for and installation of drainage structures. Temporary support may also be required at other locations. Contact for pole support is Joe Champion and he may be reached at 564-2686. Three (3) days prior notice will be required.

Time Warner Cable

Time Warner Cable has facilities through the entire length of the project. Time Warner Cable estimates fifteen (15) working days to transfer existing cables and, where necessary, install new cables to the new pole locations.

Fairpoint Communications

Fairpoint Communications has facilities through the entire length of the project. Fairpoint estimates twenty five (25) working days to transfer existing cables and install new cables to the new pole locations, including the underground installations.

Dave Leavitt990-5239

253-2200 x3520

Town: **Dover-Foxcroft** Project: **STP-9199(00)X, 9199.00** Date: **December 15, 2008**

Existing Pole #	Existing Station		eft/ ght	Existing Offset	Proposed Station	Left/ Right		Proposed Offset	Comments
		LT	RT			LT	RT		
33	1+081.212		Х	7.942					To Remain
32	1+060.320		Х	7.143					To Remain
31	1+102.760		Х	5.754					To Remain
	1+103.919	Х		7.195	1+103.4	Χ		8.2	Sanford Street
30	1+135.530	Χ		5.943	1+137.1	Χ		5.5	
29.1	1+175.038		Х	13.014					To Remain
29	1+177.676	Х		6.556	1+176.5	Χ		5.5	
28.1	1+220.998		Х	14.789					To Remain
28	1+222.215	Х		7.194	1+222.2	X		5.5	
27	1+269.643	Х		7.967					To Remain
26	1+307.486	Х		5.247	1+308.0	Χ		5.5	
25	1+336.663	Х		5.120	1+338.0	Χ		5.5	
24	1+375.969	Х		4.846	1+374.5	Χ		5.5	
23	1+392.497	Х		5.229	1+395.5	Χ		5.5	
22	1+416.294	Х		6.308	1+416.0	Χ		5.5	
21	1+458.421	Х		6.706	1+457.4	Χ		5.5	
20	1+498.433	Х		5.306	1+499.0	Χ		5.5	
19	1+545.649	Х		5.237	1+544.0	Χ		5.5	
18	1+582.413	Х		5.052	1+581.5	Χ		5.5	
17	1+623.849	Х		5.181	1+623.0	Χ		5.5	
	1+656.401		Х	11.810					Grange Street
16	1+663.717	Х		5.815					To Remain
15	1+711.330	Х		7.864					To Remain
14	1+742.647	Χ		5.720	1+743.0	Χ		8.0	
13	1+776.047	Х		6.228	1+776.0	X		8.0	
12	1+820	Χ		6.0	1+820	Χ		5.5	
11	1+861.041	Х		6.231	1+860.0	Χ		5.5	
10	1+905.930	Х		6.250	1+907.5	Χ		5.5	
9	1+943.176	Χ		6.307	1+947.1	Χ		5.5	
8	1+978.621	Х		6.195	1+978.1	Χ		5.5	
7	2+006.111	Х		5.968	2+007.0	Χ		5.5	
6	2+032.979	Χ		5.978	2+034.0	Χ		5.5	
5	2+090.958	Х		5.498					To Remain
4	2+141.860		Х	6.254					To Remain
3	2+170.529		Х	8.638	2+171.5		Χ	9.0	
2	2+206.018		Х	9.935					To Remain
1	4+033.0		Х	3.7	4+033.5		Χ	4.0	Paul Street
1	6+034	Χ		3.9	6+034	Χ		5.0	Green Street

SUBSURFACE

564-2310

Walter Fields

Summary:

Utility	Summary of Work	Estimated Working Days
Dover-Foxcroft Water District	New Water Main and Services	***
Dover-Foxcroft Wastewater Treatment Facility	Adjust SMHs to Grade	***
Fairpoint Communications	Relocate Underground Cable	***
	Total:	See below

Utility Specific Issues:

Dover-Foxcroft Water District

The Dover-Foxcroft Water District has a water main system within the project limits. The water main is in conflict with the Department's drainage system at various locations throughout the project. The District intends to avoid the conflicts with one of the following two options.

Option 1: The Dover-Foxcroft Water District intends to replace the entire water main system within the highway Right-of-Way.

Option 2: The Dover-Foxcroft Water District intends to replace only the areas of conflict with the Department's drainage system.

The Dover-Foxcroft Water District has entered into an Agreement with the Maine Department of Transportation to include Option 1 and Option 2 in the Department's contract. Low Bid and Award will be determined on the Department's Highway Items only. The contractor shall perform the water work, Option 1 or Option 2, as part of the bid documents and include the water work in the schedule for construction. The work shall be completed in accordance with special provisions provided by the District and made part of this contract.

Dover-Foxcroft Wastewater Treatment FacilityBill Littlefield564-3905

The Dover-Foxcroft Wastewater Treatment Facility has entered into an Agreement with the Maine Department of Transportation to include the item for manhole adjustments in the project contract. The work shall be completed in accordance with special provisions for Item 812.162. The Contractor shall adjust the manholes as part of the bid document and shall include adjustment of the manholes in the schedule for construction. Dover Wastewater requests a three day notification prior to work taking place as they may elect to have a representative present while work on the sewer manhole is being performed.

Fairpoint Communications

Fairpoint Communications has underground facilities from approximate station 2+033 to the end of the project. At the time this spec was written, it was the intent of Fairpoint to relocate all active underground cables to poles prior to the project being awarded. Prior to excavation, the contractor must contact Fairpoint Communications to verify that the cable has been abandoned.

Dave Leavitt 990-5239

Dover - Foxcroft 9199.00 December 5, 2008

SPECIAL PROVISION SECTION 105 General Scope of Work (Limitations of Operations)

The Contractor will be allowed to commence work and end work daily according to the Department of Marine Resources Sunrise/Sunset Table at the following Web address (<u>http://www.maine.gov/dmr/sunrise_table.htm</u>). Contractor will be allowed to enter roadway at Sunrise and must be off the roadway before Sunset. Any work outside these times will require nightime lighting and safety attire.

SPECIAL PROVISION 105 CONSTRUCTION AREA

A Construction Area located in the **Town of <u>Dover-Foxcroft</u>** has been established by the Maine Department of Transportation (MDOT) in accordance with provisions of 29-A § 2382 Maine Revised Statutes Annotated (MRSA).

- (a) The section of highway under construction beginning at Sta. 0+988.200 and ending at Sta. 2+210.000 of the construction centerline plus approaches.
- (b) (Rte's. 6/15/16) The section of highway under construction beginning at Sta. 0+988.200 and ending at Sta. 2+210.000 of the new construction centerline plus approaches.

Per 29-A § 2382 (7) MRSA, the MDOT may "issue permits for stated periods of time for loads and equipment employed on public way construction projects, United States Government projects or construction of private ways, when within construction areas established by the Department of Transportation. The permit:

A. Must be procured from the municipal officers for a construction area within that municipality;

B. May require the contractor to be responsible for damage to ways used in the construction areas and may provide for:

(1) Withholding by the agency contracting the work of final payment under contract; or

(2) The furnishing of a bond by the contractor to guarantee suitable repair or payment of damages.

The suitability of repairs or the amount of damage is to be determined by the Department of Transportation on state-maintained ways and bridges, otherwise by the municipal officers;

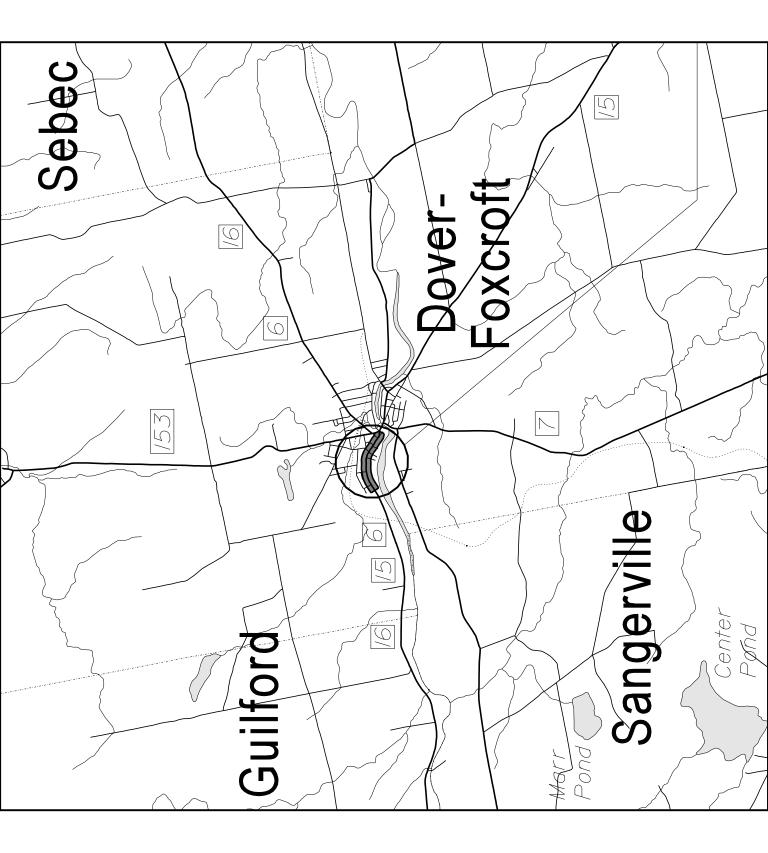
C. May be granted by the Department of Transportation or by the state engineer in charge of the construction contract; and

D. For construction areas, carries no fee and does not come within the scope of this section."

The Municipal Officers for the **Town of <u>Dover-Foxcroft</u>** agreed that an Overlimit Permit will be issued to the Contractor for the purpose of using loads and equipment on municipal ways in excess of the limits as specified in 29-A MRSA, on the municipal ways as described in the "Construction Area".

As noted above, a bond may be required by the municipality, the exact amount of said bond to be determined prior to use of any municipal way. The MDOT will assist in determining the bond amount if requested by the municipality.

The maximum speed limits for trucks on any town way will be 25 mph (40 km per hour) unless a higher legal limit is specifically agreed upon in writing by the Municipal Officers concerned.



SPECIAL PROVISION 105 OVERLIMIT PERMITS

Title 29-A § 2382 MRSA Overlimit Movement Permits.

1. Overlimit movement permits issued by State. The Secretary of State, acting under guidelines and advice of the Commissioner of Transportation, may grant permits to move nondivisible objects having a length, width, height or weight greater than specified in this Title over a way or bridge maintained by the Department of Transportation

2. Permit fee. The Secretary of State, with the advice of the Commissioner of Transportation, may set the fee for single trip permits, at not less than \$6, nor more than \$30, based on weight, height, length and width. The Secretary of State may, by rule, implement fees that have been set by the Commissioner of Transportation for multiple trip, long-term overweight movement permits. Rules established pursuant to this section are routine technical rules pursuant to Title 5, chapter 375, subchapter II-A.

3. County and municipal permits. A county commissioner or municipal officer may grant a permit, for a reasonable fee, for travel over a way or bridge maintained by that county or municipality

4. Permits for weight. A vehicle granted a permit for excess weight must first be registered for the maximum gross vehicle weight allowed for that vehicle.

5. Special mobile equipment. The Secretary of State may grant a permit, for no more than one year, to move pneumatic-tire equipment under its own power, including Class A and Class B special mobile equipment, over ways and bridges maintained by the Department of Transportation. The fee for that permit is \$15 for each 30-day period.

6. Scope of permit. A permit is limited to the particular vehicle or object to be moved, the trailer or semitrailer hauling the overlimit object and particular ways and bridges.

7. Construction permits. A permit for a stated period of time may be issued for loads and equipment employed on public way construction projects, United States Government projects or construction of private ways, when within construction areas established by the Department of Transportation. The permit:

A. Must be procured from the municipal officers for a construction area within that municipality;

B. May require the contractor to be responsible for damage to ways used in the construction areas and may provide for:

(1) Withholding by the agency contracting the work of final payment under contract; or

(2) The furnishing of a bond by the contractor to guarantee suitable repair or payment of damages.

The suitability of repairs or the amount of damage is to be determined by the Department of Transportation on state-maintained ways and bridges, otherwise by the municipal officers;

C. May be granted by the Department of Transportation or by the state engineer in charge of the construction contract; and

D. For construction areas, carries no fee and does not come within the scope of this section.

8. Gross vehicle weight permits. The following may grant permits to operate a vehicle having a gross vehicle weight exceeding the prescribed limit:

A. The Secretary of State, with the consent of the Department of Transportation, for state and state aid highways and bridges within city or compact village limits;

B. Municipal officers, for all other ways and bridges within that city and compact village limits; and

C. The county commissioners, for county roads and bridges located in unorganized territory.

9. Pilot vehicles. The following restrictions apply to pilot vehicles.

A. Pilot vehicles required by a permit must be equipped with warning lights and signs as required by the Secretary of State with the advice of the Department of Transportation.

B. Warning lights may be operated and lettering on the signs may be visible on a pilot vehicle only while it is escorting a vehicle with a permit on a public way.

With the advice of the Commissioner of Transportation and the Chief of the State Police, the Secretary of State shall establish rules for the operation of pilot vehicles.

9-A. Police escort. A person may not operate a single vehicle or a combination of vehicles of 125 feet or more in length or 16 feet or more in width on a public way unless the vehicle or combination of vehicles is accompanied by a police escort. The Secretary of State, with the advice of the Commissioner of Transportation, may require a police escort for vehicles of lesser dimensions.

A. The Bureau of State Police shall establish a fee for state police escorts to defray the costs of providing a police escort. A county sheriff or municipal police department may establish a fee to defray the costs of providing police escorts.

B. The Bureau of State Police shall provide a police escort if a request is made by a permittee. A county sheriff or municipal police department may refuse a permittee's request for a police escort.

C. A vehicle or combination of vehicles for which a police escort is required must be accompanied by a state police escort when operating on the interstate highway system.

10. Taxes paid. A permit for a mobile home may not be granted unless the applicant provides reasonable assurance that all property taxes, sewage disposal charges and drain and sewer assessments applicable to the mobile home, including those for the current tax year, have been paid or that the mobile home is exempt from those taxes. A municipality may waive the requirement that those taxes be paid before the issuance of a permit if the mobile home is to be moved from one location in the municipality to another location in the same municipality for purposes not related to the sale of the mobile home.

11. Violation. A person who moves an object over the public way in violation of this section commits a traffic infraction.

Section History:

PL 1993, Ch. 683, §A2 (NEW).
PL 1993, Ch. 683, §B5 (AFF).
PL 1997, Ch. 144, §1,2 (AMD).
PL 1999, Ch. 117, §2 (AMD).
PL 1999, Ch. 125, §1 (AMD).
PL 1999, Ch. 580, §13 (AMD).
PL 2001, Ch. 671, §30 (AMD).
PL 2003, Ch. 166, §13 (AMD).
PL 2003, Ch. 452, §Q73,74 (AMD).
PL 2003, Ch. 452, §X2 (AFF).

SPECIAL PROVISION <u>SECTION 106</u> QUALITY (Quality Level Analysis- Structural Concrete)

<u>106.7.1 Standard Deviation Method</u> Under H. Replace the Method A payfactor with the following;

"Method A: PF = [32.5 + (Quality Level * 0.75)] * 0.01"

SPECIAL PROVISION <u>SECTION 107</u> TIME (Scheduling of Work – Projected Payment Schedule)

<u>Description</u> The Contractor shall also provide the Department with a Quarterly Projected Payment Schedule that estimates the value of the Work as scheduled, including requests for payment of Delivered Materials. The Projected Payment Schedule must be in accordance with the Contractor's Schedule of Work and prices submitted by the Contractor's Bid. The Contractor shall submit the Projected Payment Schedule as a condition of Award.

SPECIAL PROVISION SECTION 107 SCHEDULING OF WORK

Replace Section 107.4.2 with the following:

<u>"107.4.2 Schedule of Work Required</u> Within 21 Days of Contract Execution and before beginning any on-site activities, the Contractor shall provide the Department with its Schedule of Work. The Contractor shall plan the Work, including the activity of Subcontractors, vendors, and suppliers, such that all Work will be performed in Substantial Conformity with its Schedule of Work. The Schedule must include sufficient time for the Department to perform its functions as indicated in this Contract, including QA inspection and testing, approval of the Contractor's TCP, SEWPCP and QCP, and review of Working Drawings.

At a minimum, the Schedule of Work shall include a bar chart which shows the major Work activities, milestones, durations, and a timeline. Milestones to be included in the schedule include: (A) start of Work, (B) beginning and ending of planned Work suspensions, (C) Completion of Physical Work, and (D) Completion. If the Contractor Plans to Complete the Work before the specified Completion date, the Schedule shall so indicate.

Any restrictions that affect the Schedule of Work such as paving restrictions or In-Stream Work windows must be charted with the related activities to demonstrate that the Schedule of Work complies with the Contract.

The Department will review the Schedule of Work and provide comments to the Contractor within 20 days of receipt of the schedule. The Contractor will make the requested changes to the schedule and issue the finalized version to the Department."

Dover- Foxcroft 9199.00 December 15, 2008

Special Provision Section 107 Prosecution and Progress (Contract Time)

- 1) The contractor will be allowed to commence work on this project as long as all applicable plans as required under this contract have been submitted and approved.
- 2) The completion date for this contract is November 14, 2009.
- **3**) The contractor shall cease all operations that effect traffic and have all lanes open to traffic and the roadway in safe operating condition as directed on the following dates :

May 22, 2009 by noon, and shall not commence work again until May 26, 2009 (Memorial Day) July 2, 2009 by noon, and shall not commence work again until July 6, 2009 (4th of July) September 4, 2009 by noon and shall not commence work again until September 8, 2009 (Labor Day)

SPECIAL PROVISION DIVISION 400 PAVEMENTS

SECTION 401 - HOT MIX ASPHALT PAVEMENT

<u>401.01 Description</u> The Contractor shall furnish and place one or more courses of Hot Mix Asphalt Pavement (HMA) on an approved base in accordance with the contract documents and in reasonably close conformity with the lines, grades, thickness, and typical cross sections shown on the plans or established by the Resident. The Department will accept this work under Quality Assurance provisions, in accordance with these specifications and the requirements of Section 106 - Quality, the provisions of AASHTO M 323 except where otherwise noted in sections 401 and 703 of these specifications, and the Maine DOT Policies and Procedures for HMA Sampling and Testing.

401.02 Materials Materials shall meet the requirements specified in Section 700 - Materials:

Asphalt Cement	702.01
Aggregates for HMA Pavement	703.07
HMA Mixture Composition	703.09

<u>401.021 Recycled Asphalt Materials</u> 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, 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.

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

<u>401.03 Composition of Mixtures</u> 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 T312 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 15% reclaimed asphalt pavement (RAP) in any base, binder, surface, or shim course. The Contractor may be allowed to use more than 15% RAP, up to a maximum of 25% RAP, in a base, binder, or shim course provided that PG 58-34 asphalt binder is used in the mixture.

The Contractor shall submit for Department approval a JMF to the Central Laboratory in Bangor for each mixture to be supplied. The Department may approve 1 active design per nominal maximum size, per traffic level, per plant, plus a 9.5mm "fine" mix @ 50 gyrations for shimming and where required, a non-RAP design for bridge decks. The Department shall then have 15 calendar days in which to process a new design before approval. The JMF shall establish a single percentage of aggregate passing each sieve size within the limits shown in section 703.09. The mixture shall be designed and produced, including all production tolerances, to comply with the allowable control points for the particular type of mixture as outlined in 703.09. The JMF shall state the original source, gradation, and percentage to be used of each portion of the aggregate and mineral filler if required. It shall also state the proposed PGAB content, the name and

location of the refiner, the supplier, the source of PGAB submitted for approval, the type of PGAB modification if applicable, and the location of the terminal if applicable.

In addition, the Contractor shall provide the following information with the proposed JMF:

Properly completed JMF indicating all mix properties (Gmm, VMA, VFB, etc.) Stockpile Gradation Summary Design Aggregate Structure Consensus Property Summary Design Aggregate Structure Trial Blend Gradation Plots (0.45 power chart) Trial Blend Test Results for at least three different asphalt contents Specific Gravity and temperature/viscosity charts for the PGAB to be used Recommended mixing and compaction temperatures from the PGAB supplier Material Safety Data Sheets (MSDS) For PGAB Asphalt Content vs. Air Voids trial blend curve Test report for Contractor's Verification sample

At the time of JMF submittal, the Contractor shall identify and make available the stockpiles of all proposed aggregates at the plant site. There must be a minimum of 135 Mg [150 ton] for stone stockpiles, 70 Mg [75 ton] for sand stockpiles, and 45 Mg [50 ton] of blend sand before the Department will sample. The Department shall obtain samples for laboratory testing. The Contractor shall also make available to the Department the PGAB proposed for use in the mix in sufficient quantity to test the properties of the asphalt and to produce samples for testing of the mixture. Before the start of paving, the Contractor and the Department shall split a production sample for evaluation. The Contractor shall test its split of the sample and determine if the results meet the requirements of the Department's written policy for mix design verification (See Maine DOT Policies and Procedures for HMA Sampling and Testing available at the Central Laboratory in Bangor). If the results are found to be acceptable, the Contractor will forward their results to the Department's Lab, which will test the Department's split of the sample. The results of the two split samples will be compared and shared between the Department and the Contractor. If the Department finds the mixture acceptable, an approved JMF will be forwarded to the Contractor and paving may commence. The first day's production shall be monitored, and the approval may be withdrawn if the mixture exhibits undesirable characteristics such as checking, shoving or displacement. The Contractor shall be allowed to submit aim changes within 24 hours of receipt of the first Acceptance test result. Adjustments will be allowed of up to 2% on the percent passing the 2.36 mm sieve through the 0.075 mm and 3% on the percent passing the 4.75 mm or larger sieves. Adjustments will be allowed on the %PGAB of up to 0.2%. Adjustments will be allowed on GMM of up to 0.010.

The Contractor shall submit a new JMF for approval each time a change in material source or materials properties is proposed. The same approval process shall be followed. The cold feed percentage of any aggregate may be adjusted up to 10 percentage points from the amount listed on the JMF, however no aggregate listed on the JMF shall be eliminated. The cold feed percentage for RAP may be adjusted up to 5 percentage points from the amount listed on the JMF but shall not exceed the maximum allowable percentage for RAP for the specific application.

Design	-	Required Density (Percent of G _{mm}) Voids in the Mineral Aggregate (VMA)(Minimum Percent)		e	Voids Filled with Binder					
ESAL's	L's (Fercent of G _{mm})			Nominal Maximum Aggregate Size (mm)					(VFB)	Fines/Eff.
(Millions)	N _{initial}	N _{design}	N _{max}	25	19	12.5	9.5	4.75	(Minimum %)	Binder Ratio
< 0.3	<u><</u> 91.5								70-80	
0.3 to <3	<u><</u> 90.5								65-80	
3 to <10		96.0	<u><</u> 98.0	13.0	14.0	15.0	16.0	16.0		0.6-1.2
10 to <30	<u><</u> 89.0								65-80*	
<u>></u> 30										

TABLE 1: VOLUMETRIC DESIGN CRITERIA

*For 9.5 mm nominal maximum aggregate size mixtures, the maximum VFB is 82.

*For 4.75 mm nominal maximum aggregate size mixtures, the maximum VFB is 84.

<u>401.04 Temperature Requirements</u> After the JMF is established, the temperatures of the mixture shall conform to the following tolerances:

In the truck at the mixing plant – allowable range 135° to 163°C [275 to 325°F] At the Paver – allowable range 135° to 163°C [275 to 325°F]

The JMF and the mix subsequently produced shall meet the requirements of Tables 1 and Section 703.07.

<u>401.05 Performance Graded Asphalt Binder</u> Unless otherwise noted in Special Provision 403 - Hot Bituminous Pavement, PGAB shall be 64-28, except that for mixtures containing greater than 15% but no more than 25% RAP the PGAB shall be PG 58-34. The PGAB shall meet the applicable requirements of AASHTO M320 - Standard Specification for PGAB. The Contractor shall provide the Department with an approved copy of the Quality Control Plan for PGAB in accordance with AASHTO R 26 Certifying Suppliers of PGAB.

<u>401.06 Weather and Seasonal Limitations</u> The State is divided into two paving zones as follows:

- <u>a. Zone 1</u> Areas north of US Route 2 from Gilead to Bangor and north of Route 9 from Bangor to Calais.
- b. Zone 2 Areas south of Zone 1 including the US Route 2 and Route 9 boundaries.

The Contractor may place Hot Mix Asphalt Pavement for use other than a traveled way wearing course in either Zone between the dates of April 15^{th} and November 15^{th} , provided that the air temperature as determined by an approved thermometer (placed in the shade at the paving location) is $4^{\circ}C$ [$40^{\circ}F$] or higher and the area to be paved is not frozen. The Contractor may place Hot Mix Asphalt Pavement as traveled way wearing course in Zone 1 between the dates of May 1st and the Saturday following October 1st and in Zone 2 between the dates of April 15^{th} and the Saturday following October 15^{th} , provided the air temperature determined as above is $10^{\circ}C$ [$50^{\circ}F$] or higher. For the purposes of this Section, the traveled way includes truck lanes, ramps, approach roads and auxiliary lanes. The atmospheric temperature for all courses on bridge decks shall be $10^{\circ}C$ [$50^{\circ}F$] or higher.

Hot Mix Asphalt Pavement used for curb, driveways, sidewalks, islands, or other incidentals is not subject to seasonal limitations, except that conditions shall be satisfactory for proper handling and finishing of the mixture. Unless otherwise specified, the Contractor shall not place Hot Mix Asphalt Pavement on a wet or frozen surface and the air temperature shall be 4°C [40°F] or higher.

On all sections of overlay with wearing courses less than 25 mm [1 in] thick, the wearing course for the travelway and adjacent shoulders shall be placed between the dates of May 15^{th} and the Saturday following September 15^{th} .

On all sections of overlay with wearing courses less than 1 inch thick, the wearing course for the travelway and adjacent shoulders shall be placed between the dates of June 1st and the Saturday following September 1st if the work is to be performed, either by contract requirement, or Contractor option, during conditions defined as "night work".

401.07 Hot Mix Asphalt Plant

401.071 General Requirements HMA plants shall conform to AASHTO M156.

<u>a. Truck Scales</u> When the hot mix asphalt is to be weighed on scales meeting the requirements of Section 108 - Payment, the scales shall be inspected and sealed by the State Sealer as often as the Department deems necessary to verify their accuracy.

Plant scales shall be checked prior to the start of the paving season, and each time a plant is moved to a new location. Subsequent checks will be made as determined by the Resident. The Contractor will have at least ten 20 Kg [50 pound] masses for scale testing.

<u>401.072</u> Automation of Batching Batch plants shall be automated for weighing, recycling, and monitoring the system. In the case of a malfunction of the printing system, the requirements of Section 401.074 c. of this specification will apply.

The batch plant shall accurately proportion the various materials in the proper order by weight. The entire batching and mixing cycle shall be continuous and shall not require any manual operations. The batch plant shall use auxiliary interlock circuits to trigger an audible alarm whenever an error exceeding the acceptable tolerance occurs. Along with the alarm, the printer shall print an asterisk on the delivery slip in the same row containing the out-of-tolerance weight. The automatic proportioning system shall be capable of consistently delivering material within the full range of batch sizes. When RAP is being used, the plant must be capable of automatically compensating for the moisture content of the RAP.

All plants shall be equipped with an approved digital recording device. The delivery slip load ticket shall contain information required under Section 108.1.3 - Provisions Relating to Certain Measurements, Mass and paragraphs a, b, and c of Section 401.073

<u>401.073 Automatic Ticket Printer System on Automatic HMA Plant</u> An approved automatic ticket printer system shall be used with all approved automatic HMA plants. The requirements for delivery slips for payment of materials measured by weight, as given in the following Sections, shall be waived: 108.1.3 a., 108.1.3 b., 108.1.3 c., and 108.1.3 d. The automatic printed ticket will be considered as the Weight Certificate.

The requirements of Section 108.1.3 f. - Delivery Slips, shall be met by the weigh slip or ticket, printed by the automatic system, which accompanies each truckload, except for the following changes:

- a. The quantity information required shall be individual weights of each batch or total net weight of each truckload.
- b. Signatures (legible initials acceptable) of Weighmaster (required only in the event of a malfunction as described in 401.074 c.).
- c. The MDOT designation for the JMF.

<u>401.074 Weight Checks on Automatic HMA Plant</u> At least twice during each 5 days of production either of the following checks will be performed:

a. A loaded truck may be intercepted and weighed on a platform scale that has been sealed by the State Sealer of Weights and Measures within the past 12 months. Whenever the discrepancy in net weights is greater than 1.0%, but does not exceed 1.5%, the plant inspector will notify the producer to take corrective action; payment will still be governed by the printed ticket. The producer will be allowed a period of two days to make any needed repairs to the plant and/or platform scales so that the discrepancy in net weights between the two is less than 1.0%. If the discrepancy exceeds 1.5%, the plant will be allowed to operate as long as payment is determined by truck platform scale net weight. Effective corrective action shall be taken within two working days.

b. Where platform scales are not readily available, a check will be made to verify the accuracy and sensitivity of each scale within the normal weighing range and to assure that the interlocking devices and automatic printer system are functioning properly.

c. In the event of a malfunction of the automatic printer system, production may be continued without the use of platform truck scales for a period not to exceed the next two working days, providing total weights of each batch are recorded on weight tickets and certified by a Licensed Public Weighmaster.

<u>401.08 Hauling Equipment</u> Trucks for hauling Hot Mix Asphalt Pavement shall have tight, clean, and smooth metal dump bodies, which have been thinly coated with a small amount of approved release agent to prevent the mixture from adhering to the bodies.

All truck dump bodies shall have a cover of canvas or other water repellent material capable of heat retention, which completely covers the mixture. The cover shall be securely fastened on the truck, unless unloading.

All truck bodies shall have an opening on both sides, which will accommodate a thermometer stem. The opening shall be located near the midpoint of the body, at least 300 mm [12 in] above the bed.

<u>401.09 Pavers</u> Pavers shall be self-contained, self-propelled units with an activated screed (heated if necessary) capable of placing courses of Hot Mix Asphalt Pavement in full lane widths on the main line, shoulder or similar construction.

On projects with no price adjustment for smoothness, pavers shall be of sufficient class and size to place Hot Mix Asphalt Pavement over the full width of the mainline travel way with a 3 m [10 ft] minimum main screed with activated extensions.

The Contractor shall place Hot Mix Asphalt Pavement on the main line with a paver using an automatic grade and slope controlled screed, unless otherwise authorized by the Department. The controls shall automatically adjust the screed and increase or decrease the layer thickness to compensate for irregularities in the preceding course. The controls shall maintain the proper transverse slope and be readily adjustable so that transitions and superelevated curves can be properly paved. The controls shall operate from a fixed or moving reference such as a grade wire or ski type device (floating beam) with a minimum length of 10 m [30 ft], a non-contact grade control with a minimum span of 7.3 m [24 ft], except that a 12 m [40 ft] reference shall be used on Expressway projects.

The Contractor shall operate the paver in such a manner as to produce a visually uniform surface texture and a thickness within the requirements of Section 401.101 - Surface Tolerances. The paver shall have a receiving hopper with sufficient capacity for a uniform spreading operation and a distribution system to place the mixture uniformly, without segregation in front of the screed. The screed assembly shall produce a finished surface of the required evenness and texture without tearing, shoving, or gouging the mixture. Pavers with extendible screeds shall have auger extensions and tunnel extenders as per the manufacturer's recommendations, a copy of which shall be available if requested.

The Contractor shall have the paver at the project site sufficiently before the start of paving operations to be inspected and approved by the Department. The Contractor shall repair or replace any paver found worn or defective, either before or during placement, to the satisfaction of the Department. Pavers that produce an unevenly textured or non-uniform mat will be repaired or replaced before continuing to place HMA on MDOT projects. On a daily basis, the Contractor shall perform nuclear density testing across the mat being placed, at 300 mm [12 in] intervals. If the values vary by more than 2.0% from the mean, the Contractor shall make adjustments until the inconsistencies are remedied.

Failure to replace or repair defective placement equipment may result in a letter of suspension of work and notification of a quality control violation resulting in possible monetary penalties as governed by Section 106 - Quality

<u>401.10 Rollers</u> Rollers shall be static steel, pneumatic tire, or approved vibrator type. Rollers shall be in good mechanical condition, capable of starting and stopping smoothly, and be free from backlash when reversing direction. Rollers shall be equipped and operated in such a way as to prevent the picking up of hot mixed material by the roller surface. The use of rollers, which result in crushing of the aggregate or in displacement of the HMA will not be permitted. Any Hot Mix Asphalt Pavement that becomes loose, broken, contaminated, shows an excess or deficiency of Performance Graded Asphalt Binder, or is in any other way defective shall be removed and replaced at no additional cost with fresh Hot Mix Asphalt Pavement, which shall be immediately compacted to conform to the adjacent area.

The type of rollers to be used and their relative position in the compaction sequence shall generally be the Contractor's option, provided specification densities are attained and with the following requirements:

a. On variable-depth courses, the first lift of pavement over gravel, reclaimed pavement, an irregular surface, or on bridges, at least one roller shall be 14.5 Mg [16 ton] pneumatic-tired. Unless otherwise allowed by the Resident, pneumatic-tired rollers shall be equipped with skirting to minimize the pickup of HMA materials from the paved surface. When required by the Resident, the roller shall be ballasted to 18.1 Mg [20 ton].

b. Compaction with a vibratory or steel wheel roller shall precede pneumatic-tired rolling, unless otherwise authorized by the Department.

c. Vibratory rollers shall not be operated in the vibratory mode when checking or cracking of the mat occurs, or on bridge decks.

d. Any method, which results in cracking or checking of the mat, will be discontinued and corrective action taken.

The maximum operating speed for a steel wheel or pneumatic roller shall not exceed the manufacturer's recommendations, a copy of which shall be available if requested.

401.101 Surface Tolerances The Department will check surface tolerance utilizing the following methods :

a.) A 5 m [16 ft] straightedge or string line placed directly on the surface, parallel to the centerline of pavement.

b.) A 3 m [10 ft] straightedge or string line placed directly on the surface, transverse to the centerline of pavement.

The Contractor shall correct variations exceeding 6 mm $[\frac{1}{4}$ in] by removing defective work and replacing it with new material as directed by the Department. The Contractor shall furnish a 10 foot straightedge for the Departments use.

<u>401.11 Preparation of Existing Surface</u> The Contractor shall thoroughly clean the surface upon which Hot Mix Asphalt Pavement is to be placed of all objectionable material. When the surface of the existing base or pavement is irregular, the Contractor shall bring it to uniform grade and cross section. All surfaces shall have a tack coat applied prior to placing any new HMA course. Tack coat shall conform to the requirements of Section 409 – Bituminous Tack Coat, Section 702 – Bituminous Material, and all applicable sections of the contract.

<u>401.12 Hot Mix Asphalt Documentation</u> The Contractor and the Department shall agree on the amount of Hot Mix Asphalt Pavement that has been placed each day.

<u>401.13 Preparation of Aggregates</u> The Contractor shall dry and heat the aggregates for the HMA to the required temperature. The Contractor shall properly adjust flames to avoid physical damage to the aggregate and to avoid depositing soot on the aggregate.

<u>401.14 Mixing</u> The Contractor shall combine the dried aggregate in the mixer in the amount of each fraction of aggregate required to meet the JMF. The Contractor shall measure the amount of PGAB and introduce it into the mixer in the amount specified by the JMF.

The Contractor shall produce the HMA at the temperature established by the JMF.

The Contractor shall dry the aggregate sufficiently so that the HMA will not flush, foam excessively, or displace excessively under the action of the rollers. The Contractor shall introduce the aggregate into the mixer at a temperature of not more than 14°C [25°F] above the temperature at which the viscosity of the PGAB being used is 0.150 Pa•s.

The Contractor shall store and introduce into the mixer the Performance Graded Asphalt Binder at a uniformly maintained temperature at which the viscosity of the PGAB is between 0.150 Pa•s and 0.300 Pa•s. The aggregate shall be coated completely and uniformly with a thorough distribution of the PGAB. The Contractor shall determine the wet mixing time for each plant and for each type of aggregate used.

<u>401.15 Spreading and Finishing</u> On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impracticable, the Contractor shall spread, rake, and lute the HMA with hand tools to provide the required compacted thickness.

On roads opened to two-way traffic, the Contractor shall place each course over the full width of the traveled way section being paved that day, unless otherwise noted by the Department in Section 403 - Hot Bituminous Pavement.

<u>401.16 Compaction</u> Immediately after the Hot Mix Asphalt Pavement has been spread, struck off, and any surface irregularities adjusted, the Contractor shall thoroughly and uniformly compact the HMA by rolling.

The Contractor shall roll the surface when the mixture is in the proper condition and when the rolling does not cause undue displacement, cracking, or shoving. The Contractor shall prevent adhesion of the HMA to the rollers or vibrating compactors without the use of fuel oil or other petroleum based release agents.

The Contractor shall immediately correct any displacement occurring as a result of the reversing of the direction of a roller or from other causes to the satisfaction of the Department. Any operation other than placement of variable depth shim course that results in breakdown of the aggregate shall be discontinued. Any new pavement that shows obvious cracking, checking, or displacement shall be removed and replaced for the full lane width as directed by the Resident at no cost to the Department.

Along forms, curbs, headers, walls, and other places not accessible to the rollers, the Contractor shall thoroughly compact the HMA with mechanical vibrating compactors. The Contractor shall only use hand tamping in areas inaccessible to all other compaction equipment. On depressed areas, the Contractor may use a trench roller or cleated compression strips under a roller to transmit compression to the depressed area.

Any HMA that becomes unacceptable due to cooling, cracking, checking, segregation or deformation as a result of an interruption in mix delivery shall be removed and replaced, with material that meets contract specifications at no cost to the Department.

<u>401.17 Joints</u> The Contractor shall construct wearing course transverse joints in such a manner that minimum tolerances shown in Section 401.101 - Surface Tolerances are met when measured with a straightedge.

The paver shall always maintain a uniform head of HMA during the joint construction. The HMA shall be free of segregation and meet temperature requirements outlined in section 401.04. Transverse joints of the wearing course shall be straight and neatly trimmed. The Contractor may form a vertical face exposing the full depth of the course by inserting a header, by breaking the bond with the underlying course, or by cutting back with hand tools. The Department may allow feathered or "lap" joints on lower courses or when matching existing low type pavements.

Longitudinal joints shall be constructed in a manner that will best ensure joint integrity. Methods or activities that prove detrimental to the construction of sound longitudinal joints will be discontinued.

The Contractor shall apply a coating of emulsified asphalt immediately before paving all joints to the vertical face and 75 mm [3 in] of the adjacent portion of any pavement being overlaid except those formed by pavers operating in echelon. The Contractor shall use an approved spray apparatus designed for covering a narrow surface. The Department may approve application by a brush for small surfaces, or in the event of a malfunction of the spray apparatus, but for a period of not more than one working day.

Where pavement under this contract joins an existing pavement or when the Department directs, the Contractor shall cut the existing pavement along a smooth line, producing a neat, even, vertical joint. The Department will not permit broken or raveled edges. The cost of all work necessary for the preparation of joints is incidental to related contract pay items.

<u>401.18 Quality Control Method A, B & C</u> The Contractor shall operate in accordance with the approved Quality Control Plan (QCP) to assure a product meeting the contract requirements. The QCP shall meet the requirements of Section 106.6 - Acceptance and this Section. The Contractor shall not begin paving operations until the Department approves the QCP in writing.

Prior to placing any mix, the Department and the Contractor shall hold a Pre-paving conference to discuss the paving schedule, source of mix, type and amount of equipment to be used, sequence of paving pattern, rate of mix supply, random sampling, project lots and sublots and traffic control. A copy of the QC random numbers to be used on the project shall be provided to The Resident. The Departments' random numbers for Acceptance testing shall be generated and on file with the Resident and the Project Manager. All field and plant supervisors including the responsible onsite paving supervisor shall attend this meeting.

The QCP shall address any items that affect the quality of the Hot Mix Asphalt Pavement including, but not limited to, the following:

- a. JMF(s)
- b. Hot mix asphalt plant details
- c. Stockpile Management (to include provisions for a minimum 2 day stockpile)
- d. Make and type of paver(s)
- e. Make and type of rollers including weight, weight per inch of steel wheels, and average contact pressure for pneumatic tired rollers
- f. Name of QCP Administrator, and certification number
- g. Name of Process Control Technician(s) and certification number(s)
- h. Name of Quality Control Technicians(s) and certification number(s)
- i. Mixing & transportation including process for ensuring that truck bodies are clean and free of debris or contamination that could adversely affect the finished pavement
- j. Testing Plan

- k. Laydown operations including longitudinal joint construction, procedures for avoiding paving in inclement weather, type of release agent to be used on trucks tools and rollers, compaction of shoulders, tacking of all joints, methods to ensure that segregation is minimized, procedures to determine the maximum rolling and paving speeds based on best engineering practices as well as past experience in achieving the best possible smoothness of the pavement
- 1. Examples of Quality Control forms including a daily plant report and a daily paving report
- m. Silo management and details (can show storage for use on project of up to 36 hours)
- n. Provisions for varying mix temperature due to extraordinary conditions
- o. Name and responsibilities of the Responsible onsite Paving Supervisor
- p. Method for calibration/verification of Density Gauge
- q. A note that all testing will be done in accordance with AASHTO and the Maine DOT Policies and Procedures for HMA Sampling and Testing.
- r. A note detailing conditions under which the percent of RAP will vary from that specified on the JMF.
- s. A note detailing when production will be halted due to QC testing results.

The QCP shall include the following technicians together with these minimum requirements:

a. QCP Administrator - A qualified individual shall administer the QCP. The QCP Administrator must be a full-time employee of or a consultant engaged by the Contractor or paving subcontractor. The QCP Administrator shall have full authority to institute any and all actions necessary for the successful operation of the QCP. The QCP Administrator (or its designee in the QCP Administrator's absence) shall be available to communicate with the Department at all times. The QCP Administrator shall be certified as a Quality Assurance Technologist certified by the New England Transportation Technician Certification Program (NETTCP).

b. Process Control Technician(s) (PCT) shall utilize test results and other quality control practices to assure the quality of aggregates and other mix components and control proportioning to meet the JMF(s). The PCT shall inspect all equipment used in mixing to assure it is operating properly and that mixing conforms to the mix design(s) and other Contract requirements. The QCP shall detail how these duties and responsibilities are to be accomplished and documented, and whether more than one PCT is required. The Plan shall include the criteria to be utilized by the PCT to correct or reject unsatisfactory materials. The PCT shall be certified as a Plant Technician by the NETTCP.

c. Quality Control Technician(s) (QCT) shall perform and utilize quality control tests at the job site to assure that delivered materials meet the requirements of the JMF(s). The QCT shall inspect all equipment utilized in transporting, laydown, and compacting to assure it is operating properly and that all laydown and compaction conform to the Contract requirements. The QCP shall detail how these duties and responsibilities are to be accomplished and documented, and whether more than one QCT is required. The QCP shall include the criteria utilized by the QCT to correct or reject unsatisfactory materials. The QCT shall be certified as a Paving Inspector by the NETTCP.

The QCP shall detail the coordination of the activities of the Plan Administrator, the PCT and the QCT. The Project Superintendent shall be named in the QCP, and the responsibilities for successful implementation of the QCP shall be outlined.

The Contractor shall sample, test, and evaluate Hot Mix Asphalt Pavement in accordance with the following minimum frequencies:

TABLE 2 : MINIMUM QUALITY CONTROL FREQUENCIES								
Test or Action	Frequency	Test Method						
Temperature of mix	6 per day at street and plant	-						
Temperature of mat	4 per day	-						
%TMD (Surface)	1 per 115 Mg [125 ton]	ASTM D2950						
	(As noted in QC Plan)							
%TMD (Base)	1 per 225 Mg [250 ton]	AASHTO T269						
	(As noted in QC Plan)							
Fines / Effective Binder	1 per 450 Mg [500 ton]	AASHTO T 312*						
Gradation	1 per 450 Mg [500 ton]	AASHTO T30						
PGAB content	1 per 460 Mg [500 ton]	AASHTO T164						
		or T308						
Voids at N _{design}	1 per 450 Mg [500 ton]	AASHTO T 312*						
Voids in Mineral Aggregate at	1 per 450 Mg [500 ton]	AASHTO T 312*						
N _{design}								
Rice Specific Gravity	1 per 450 Mg [500 ton]	AASHTO T209						
Coarse Aggregate Angularity	1 per 4500 Mg [5000 ton]	ASTM D5821						
Flat and Elongated Particles	1 Per 4500 Mg [5000 ton]	ASTM D4791						
Fine Aggregate Angularity	1 Per 4500 Mg [5000 ton]	AASHTO T304						

TABLE 2 : MINIMUM QUALITY CONTROL FREQUENCIES

*Method A and B only.

The Contractor may utilize innovative equipment or techniques not addressed by the Contract documents to produce or monitor the production of the mix, subject to approval by the Department.

The Contractor shall submit all Hot Mix Asphalt Pavement plant test reports, inspection reports and updated pay factors in writing, signed by the appropriate technician and present them to the Department by 1:00 P.M. on the next working day, except when otherwise noted in the QCP due to local restrictions. The Contractor shall also retain splits of the previous 5 QC tests, with QC results enclosed for random selection and testing by The Department during QA inspections of the HMA production facility. Test results of splits that do not meet the Dispute Resolution Variance Limits in Table 10 shall trigger an investigation by the MDOT Independent Assurance Unit, and may result in that lab losing NETTCP certification and the ability to request a dispute [Section 401.223 - Process for Dispute Resolution (Methods A, B and C only)].

The Contractor shall make density test results, including randomly sampled densities, available to the Department onsite. Summaries of each day's results, including a daily paving report, shall be recorded and signed by the QCT and presented to the Department by 1:00 p.m. the next working day.

The Contractor shall have a testing lab at the plant site, equipped with all testing equipment necessary to complete the tests in Table 2. The Contractor shall locate an approved SHRP Gyratory Compactor at the plant testing lab or within 30 minutes of the plant site.

The Contractor shall fill all holes in the pavement resulting from cutting cores by the Contractor or the Department with a properly compacted, acceptable mixture no later than the following working day. Before filling, the Contractor shall carefully clean the holes and apply a coating of emulsified asphalt. On surface courses, cores shall not be cut except for Verification of the Nuclear Density Gauge, at a rate not to exceed 3 per day or 2 per 900 Mg [1000 ton] placed.

The Contractor shall monitor plant production using running average of three control charts as specified in Section 106 - Quality. Control limits shall be as noted in Table 3 below. The UCL and LCL, shall not exceed the allowable control points for the particular type of mixture as outlined in Table 1 of section 703.09

TABLE 5. Control Emilts			
Property	UCL and LCL		
Passing 4.75 mm and larger sieves	Target +/-4.0		
Passing 2.36 mm sieve	Target +/-2.5		
Passing .075 mm sieve	Target +/-1.2		
PGAB Content*	Target +/-0.3		
Voids in the Mineral Aggregate	LCL = LSL + 0.2		
% Voids at N _{design}	JMF Target +/-1.3		

*Based on AASHTO T 308

The Contractor shall cease paving operations whenever one of the following occurs on a lot in progress:

- a. Methods A and B: The Pay Factor for VMA, Voids @ N_d, Percent PGAB, composite gradation, VFB, fines to effective binder or density using all Acceptance or all Quality Control tests for the current lot is less than 0.85. Method C: The Pay Factor for VMA, Voids @ N_d, Percent PGAB, percent passing the nominal maximum sieve, percent passing 2.36 mm sieve, percent passing 0.300 mm sieve or percent passing 0.075 mm sieve using all Acceptance or all available Quality Control tests for the current lot is less than 0.85.
- b. The Coarse Aggregate Angularity or Fine Aggregate Angularity value falls below the requirements of Table 3: Aggregate Consensus Properties Criteria for the design traffic level.
- c. Each of the first 2 control tests for a Method A or B_lot_fall outside the upper or lower limits for VMA, Voids @ Nd, or Percent PGAB; or under Method C, each of the first 2 control tests for the lot fall outside the upper or lower limits for the individual gradation sieve sizes as required in Table 3, or Percent PGAB.
- d. The Flat and Elongated Particles value exceeds 10% by ASTM D4791.
- e. There is any visible damage to the aggregate due to over-densification other than on variable depth shim courses.
- f. The Contractor fails to follow the approved QCP.
- g. The Contractor's control chart shows the process to be out of control (defined as a single point outside of the control limits on the running average of three chart.) on any property listed in Table 3: Control Limits.

Paving operations shall not resume until the Contactor and the Department determines that material meeting the Contract requirements will be produced. The Department will consider corrective action acceptable if the pay factor for the failing property increases, based on samples already in transit, or a verification sample is tested and the property falls within the specification limits.

The Department retains the exclusive right, with the exception of the first day's production of a new JMF, to determine whether the resumption of production involves a significant change to the production process. If the Department so determines, then the current lot will be terminated, a pay factor established, and a new lot will begin.

<u>401.19 Quality Control Method D</u> For Items covered under Method D, the Contractor shall submit a modified QC Plan detailing, how the mix is to be placed, what equipment is to be used, and what HMA plant is to be used. All mix designs (JMF) shall be approved and verified by MDOT prior to use. Certified QC personnel shall not be required. The Contractor shall certify the mix and the test results for each item by a Certificate of Compliance.

<u>401.20 Acceptance Method A, B & C</u> These methods utilizes Quality Level Analysis and pay factor specifications.

For Hot Mix Asphalt Pavement designated for acceptance under Quality Assurance provisions, the Department will sample once per sublot on a statistically random basis, test, and evaluate in accordance with the following Acceptance Criteria:

PROPERTIES	POINT OF	TEST METHOD	
	SAMPLING		
Gradation	Paver Hopper	AASHTO T30	
PGAB Content	Paver Hopper	AASHTO T308	
%TMD	Mat behind all Rollers	AASHTO T269	
(Surface)			
%TMD (Base	Mat behind all Rollers	AASHTO T269	
or Binder)			
Air Voids at N _d	Paver Hopper	AASHTO T 312	
%VMA at N _d	Paver Hopper	AASHTO T 312	
Fines to	Paver Hopper	AASHTO T 312	
Effective Binder			
%VFB	Paver Hopper	AASHTO T 312	

TABLE 4: ACCEPTANCE CRITERIA

On the first day of production in the current calendar year, or the first day of production of a new JMF the Department will take three random samples, which will be used to calculate the quality level of the in-place material in the event the lot is terminated prematurely. Only one of the three will be tested, the other two will be held onsite until at least three random samples have been taken, at which time the other two will be discarded.

Lot Size For purposes of evaluating all acceptance test properties, a lot shall consist of the total quantity represented by each item listed under the lot size heading.

If the Department terminates a Lot prematurely, the samples from the first day's production will be used to calculate a volumetric pay factor, and a minimum of three cores will be used for a density pay factor, if applicable, for quantities placed to date.

<u>Sublot size</u> - Refer to section 401.201, 401.202, and 401.203 for minimum size and number of sublots. The quantity represented by each sample will constitute a sublot.

If there is less than one-half of a sublot remaining at the end, then it shall be combined with the previous sublot. If there is more than one-half sublot remaining at the end, then it shall constitute the last sublot and shall be represented by test results. If it becomes apparent partway through a Lot that, due to an underrun, there will be insufficient mix quantity to obtain the minimum number of sublots needed, the Resident may adjust the size of the remaining sublots and select new sample locations based on the estimated quantity of material remaining in the Lot.

Acceptance Testing The Department will obtain samples of Hot Mix Asphalt Pavement in conformance with AASHTO T168 Sampling Bituminous Paving Mixtures, and the Maine DOT Policies and Procedures for HMA Sampling and Testing, which will then be transported by the Contractor to the designated MDOT Laboratory within 48 hours (except when otherwise noted in the project specific QCP due to local restrictions), as directed by MDOT in approved transport containers to be provided by the Department, unless otherwise directed by the Resident. The Department will take the sample randomly within each sublot. Target values shall be as specified in the JMF. The Department will use Table 5 for calculating pay factors for gradation, PGAB Content, Air Voids at N_{design}, VMA, Fines to Effective Binder and VFB. The Department will withhold reporting of the test results for the Acceptance sample until 7:00 AM, on the second working day of receipt of the sample, or after receipt of the Contractors results of the Acceptance sample split. Upon conclusion of each lot, where there is a minimum of four sublots, results shall be examined for statistical outliers, as stated in Section 106.7.2 - Statistical Outliers.

<u>Isolated Areas</u> During the course of inspection, should it appear that there is an isolated area that is not representative of the lot based on a lack of observed compactive effort, excessive segregation or any other questionable practice, that area may be isolated and tested separately. An area so isolated that has a calculated pay factor below 0.80, based on three random tests shall be removed and replaced at the expense of the Contractor for the full lane width and a length not to be less than 50 m [150 ft].

Pavement Density The Department will measure pavement density using core samples tested according to AASHTO T-166. The Department will randomly determine core locations. The Contractor shall cut 6 inch diameter cores at no additional cost to the Department by the end of the working day following the day the pavement is placed, and immediately give them to the Department. The cores will be placed in a transport container provided by the Department and transported by the Contractor to the designated MDOT Lab as directed by the Department. Pre-testing of the cores will not be allowed. At the time of sampling, the Contractor and the Department shall mutually determine if a core is damaged. If it is determined that the core(s) is damaged, the Contractor shall cut new core(s) at the same offset and within 1 m [3 ft] of the initial sample. At the time the core is cut, the Contractor and the Department will mutually determine if saw cutting of the core is needed, and will mark the core at the point where sawing is needed. The core may be saw cut by the Contractor in the Department's presence onsite, or in an MDOT Lab by The Department, without disturbing the layer being tested to remove lower layers of Hot Mix Asphalt Pavement, gravel, or RAP. No recuts are allowed at a test location after the core has been tested. Upon conclusion of each lot, density results shall be examined for statistical outliers as stated in Section 106.7.2.

On all sections of overlay with wearing courses designed to be 19 mm [3/4 in] or less in thickness, there shall be no pay adjustment for density otherwise noted in Section 403 - Hot Bituminous Pavement. For overlays designed to be 19 mm [3/4 in] or less in thickness, density shall be obtained by the same rolling train and methods as used on mainline travelway surface courses with a pay adjustments for density, unless otherwise directed by the Department.

There shall be no pay adjustment for density on shoulders unless otherwise noted in Section 403 - Hot Bituminous Pavement. Density for shoulders shall be obtained by the same rolling train and methods as used on mainline travelway, unless otherwise directed by the Department. Efforts to obtain optimum compaction will not be waived by the Department unless it is apparent during construction that local conditions make densification to this point detrimental to the finished pavement surface course.

401.201 Method A Lot Size will be the entire production per JMF for the project, or if so agreed at the Prepaving Conference, equal lots of up to 4050 Mg [4500 tons], with unanticipated over-runs of up to 1350 Mg [1500 ton] rolled into the last lot. Sublot sizes shall be 675 Mg [750 ton] for mixture properties, 450 Mg [500 ton] for base or binder densities and 225 Mg [250 ton] for surface densities. The minimum number of sublots for mixture properties shall be 4, and the minimum number of sublots for density shall be five. 61

Property	USL and LSL	
Passing 4.75 mm and larger sieves	Target +/-7%	
Passing 2.36 mm to 1.18 mm sieves	Target +/-4%	
Passing 0.60 mm	Target +/-3%	
Passing 0.30 mm to 0.075 mm sieve	Target +/-2%	
PGAB Content	Target +/-0.4%	
Air Voids	4.0% +/-1.5%	
Fines to Effective Binder	0.6 to 1.2	
Voids in the Mineral Aggregate	LSL Only from Table 1	
Voids Filled with Binder	Table 1 values plus a 4%	
	production tolerance for USL only	
% TMD (In place density)	95.0% +/- 2.5%	

 TABLE 5:
 METHOD A
 ACCEPTANCE LIMITS

<u>401.202 Method B</u> Lot Size will be the entire production per JMF for the project and shall be divided into 3 equal sublots for Mixture Properties and 3 equal sublots for density.

Property	USL and LSL		
Percent Passing 4.75 mm and larger sieves	Target +/-7		
Percent Passing 2.36 mm to 1.18 mm sieves	Target +/-5		
Percent Passing 0.60 mm	Target +/-4		
Percent Passing 0.30 mm to 0.075 mm sieve	Target +/-3		
PGAB Content	Target +/-0.5		
Air Voids	4.0% +/-2.0		
Fines to Effective Binder	0.6 to 1.4		
Voids in the Mineral Aggregate	LSL from Table 1		
Voids Filled with Binder	Table1 plus a 4% production tolerance for USL.		
% TMD (In-place Density)	95.0% +/- 2.5%		

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TABLE 6:	METHOD B	ACCEPTANCE LIMITS

<u>401.203 Testing Method C</u> Lot Size will be the entire production per JMF for the project, or if so agreed at the Pre-paving Conference, equal lots of up to 4050 Mg [4500 tons], with unanticipated over-runs of up to 1350 Mg [1500 ton] rolled into the last lot. Sublot sizes shall be 675 Mg [750 ton] for mixture properties, 450 Mg [500 ton] for base or binder densities and 225 Mg [250 ton] for surface densities. The minimum number of sublots for mixture properties shall be 4, and the minimum number of sublots for density shall be five.

Property	USL and LSL		
Passing 4.75 mm and larger sieves	Target +/-7%		
Passing 2.36 mm to 1.18 mm sieves	Target +/-4%		
Passing 0.60 mm	Target +/-3%		
Passing 0.30 mm to 0.075 mm sieve	Target +/-2%		
PGAB Content	Target +/-0.4%		
Air Voids	4.0% +/-1.5%		
Fines to Effective Binder	0.6 to 1.2		
Voids in the Mineral Aggregate	LSL Only from Table 1		
Voids Filled with Binder	Table 1 values plus a 4% production		
	tolerance for USL only		
% TMD (In place density)	95.0% +/- 2.5%		

TABLE 7: METHOD C ACCEPTANCE LIMITS

<u>401.204 Testing Method D</u> For hot mix asphalt items designated as Method D in Section 403 - Hot Bituminous Pavement, one sample will be taken from the paver hopper or the truck body per 225 Mg [250 ton] per pay item. The mix will be tested for gradation and PGAB content. Disputes will not be allowed. If the mix is within the tolerances listed in Table 8: Method D Acceptance Limits, the Department will pay the contract unit price. If the test results for each 225 Mg [250 ton] increment are outside these limits, the following deductions (Table 8b) shall apply to the HMA quantity represented by the test.

Property	USL and LSL	
Percent Passing 4.75 mm and larger sieves	Target +/-7	
Percent Passing 2.36 mm to 1.18 mm sieves	Target +/-5	
Percent Passing 0.60 mm	Target +/-4	
Percent Passing 0.30 mm to 0.075 mm sieve	Target +/-3	
PGAB Content	Target +/-0.5	
% TMD (In-place Density)	95.0% +/- 2.5%	

TABLE 8: METHOD D ACCEPTANCE LIMITS

 TABLE 8b Method "D" Price Adjustments

PGAB Content	-5%
2.36 mm sieve	-2%
0.30 mm sieve	-1%
0.075 mm sieve	-2%
Density	-10%*

*Only applies when called for in Section 403 - Hot Bituminous Pavement. Contractor shall cut two 150 mm [6 in] cores, which shall be tested for percent TMD per AASHTO T-269. If the average for the two tests falls below 92.5% the disincentive shall apply.

<u>401.21 Method of Measurement</u> The Department will measure Hot Mix Asphalt Pavement by the Mg [ton] in accordance with Section 108.1 - Measurement of Quantities for Payment.

<u>401.22 Basis of Payment</u> The Department will pay for the work, in place and accepted, in accordance with the applicable sections of this Section, for each type of HMA specified.

The Department will pay for the work specified in Section 401.11, for the HMA used, except that cleaning objectionable material from the pavement and furnishing and applying bituminous material to joints and contact surfaces is incidental.

Payment for this work under the appropriate pay items shall be full compensation for all labor, equipment, materials, and incidentals necessary to meet all related contract requirements, including design of the JMF, implementation of the QCP, obtaining core samples, transporting cores and samples, filling core holes, applying emulsified asphalt to joints, and providing testing facilities and equipment.

The Department will make a pay adjustment for quality as specified below.

<u>401.221 Pay Adjustment</u> The Department will sample, test, and evaluate Hot Mix Asphalt Pavement in accordance with Section 106 - Quality and Section 401.20 - Acceptance, of this Specification.

<u>401.222 Pay Factor (PF)</u> The Department will use the following criteria for pay adjustment using the pay adjustment factors under Section 106.7 - Quality Level Analysis:

<u>Density</u> If the pay factor for Density falls below 0.80 for Method A or C or 0.86 for Method B, all of the cores will be randomly recut by Sublot. A new pay factor will be calculated that combines all initial and retest results. If the resulting pay factor is below 0.80 for Method A or C or below 0.86 for Method B, the entire Lot shall be removed and replaced with material meeting the specifications at no additional cost to the Department, except that the Department may, when it appears that there is a distinct pattern of defective material, isolate any defective material by investigating each mix sample sublot and require removal of defective mix sample sublots only, leaving any acceptable material in place if it is found to be free of defective material. Pay factors equal to or greater than the reject level will be paid accordingly.

<u>Gradation</u> For HMA evaluated under Acceptance Method A or B, the Department will determine a composite pay factor (CPF) using applicable price adjustment factors "f" from Table 9: Table of Gradation Composite "f" Factors, and Acceptance limits from Table 5: Method A Acceptance Limits, for Method A or Table 6: Method B Acceptance Limits, for Method B. The Department will not make price adjustments for gradation on Methods A and B, but will monitor them as shutdown criteria.

	X	"f" Factor			
Constituent		19 mm	12.5 mm	9.5 mm	4.75 mm
	25 mm	-	-	-	-
	19 mm	4	-	-	-
	12.5 mm		4	4	-
	9.50 mm				4
Gradation	2.36 mm	6	6	6	8
	1.18 mm				
	0.60 mm	2	2	2	2
	0.30 mm	2	2	2	2
	0.075 mm	6	6	6	8

TABLE 9: TABLE OF GRADATION COMPOSITE " f " FACTORS (Methods A and B)

For HMA evaluated under Acceptance Method C, the Department will determine a pay factor using acceptance limits from Table 7: Method C Acceptance Limits.

<u>VMA, Air Voids, VFB and Fines to Effective Binder</u> The Department will determine a pay factor (PF) using the applicable Acceptance Limits.

The following variables will be used for pay adjustment:

- PA = Pay Adjustment
- Q = Quantity represented by PF in Mg [ton]
- P = Contract price per Mg [ton]
- PF = Pay Factor

Pay Adjustment Method A

The Department will use the following criteria for pay adjustment: density, Performance Graded Asphalt Binder content, voids $@N_{d}$, VMA, VFB, F/B_{eff}, and the screen sizes listed in Table 9 for the type of HMA represented in the JMF. If any pay factor for any single property or composite gradation falls below 0.85, the Contractor shall shut down the HMA plant. If any single pay factor for PGAB Content, VMA, or Air Voids falls below 0.80, then the composite pay factor for PGAB Content, VMA, and Air Voids shall be 0.55.

<u>Density</u>: For mixes having a density requirement, the Department will determine a pay factor using Table 5: Method A Acceptance Limits:

$$PA = (density PF- 1.0)(Q)(P)x0.50$$

<u>PGAB Content, VMA and Air Voids</u>: The Department will determine a pay adjustment using Table 5: Method A Acceptance Limits as follows:

$$PA = (voids @ N_d PF- 1.0)(Q)(P)x0.20 + (VMA @ N_d PF- 1.0)(Q)(P)x0.20 + (PGAB PF- 1.0)(Q)(P)x0.10$$

<u>VFB and Fines to Effective Binder</u> The Department will determine a pay factor (PF) using Table 5: Method A Acceptance Limits. The Department will not make price adjustments for VFB or Fines to Effective Binder, but will monitor them as shutdown criteria.

Pay Adjustment Method B

The Department will use the following criteria for pay adjustment: density, Performance Graded Asphalt Binder content, voids $@N_d$, VMA, VFB, F/B_{eff}, and the screen sizes listed in Table 9 for the type of HMA represented in the JMF. If any pay factor for any single property or composite gradation falls below 0.90, the Contractor shall shut down the HMA plant. If any single pay factor for PGAB Content, VMA, or Air Voids falls below 0.86, then the composite pay factor for PGAB Content, VMA, and Air Voids shall be 0.70.

<u>Density</u>: For mixes having a density requirement, the Department will determine a pay factor using Table 6: Method B Acceptance Limits:

$$PA = (density PF- 1.0)(Q)(P)x0.50$$

<u>PGAB Content, VMA and Air Voids</u>: The Department will determine a pay adjustment using Table 6: Method B Acceptance Limits as follows:

 $PA = (voids @ N_d PF- 1.0)(Q)(P)x0.20 + (VMA @ N_d PF- 1.0)(Q)(P)x0.20 + (PGAB PF- 1.0)(Q)(P)x0.10$

<u>VFB and Fines to Effective Binder</u> The Department will determine a pay factor (PF) using Table 6: Method B Acceptance Limits. The Department will not make price adjustments for VFB or Fines to Effective Binder, but will monitor them as shutdown criteria.

Pay Adjustment Method C

The Department will use density, Performance Graded Asphalt Binder content, and the screen sizes listed in Table 7 for the type of HMA represented in the JMF. If any pay factor for any single property falls below 0.85, the Contractor shall shut down the HMA plant. If the PGAB content falls below 0.80, then the PGAB pay factor shall be 0.55. If the percent passing the nominal maximum sieve, the 2.36 mm sieve, the 0.300 mm sieve or the 0.075 mm sieve for Method C falls below 0.80, then the composite pay factor for the four sieves shall be 0.55.

<u>Density</u>: For mixes having a density requirement, the Department will determine a pay factor using Table 7: Method C Acceptance Limits:

PA = (density PF- 1.0)(Q)(P)x0.50

<u>PGAB Content and Gradation</u> The Department will determine a pay factor using Table 7: Method C Acceptance Limits. The Department will calculate the price adjustment for Mixture Properties as follows:

 $\label{eq:PA} \begin{array}{ll} PA = (\% \ Passing \ Nom. \ Max \ PF-1.0)(Q)(P)X0.05+(\% \ passing \ 2.36 \ mm \ PF-1.0)(Q)(P)X0.05+(\% \ passing \ 0.075 \ mm \ PF-1.0)(Q)(P)X0.05+(\% \ passing \ 0.075 \ mm \ PF-1.0)(Q)(P)X0.10+(PGAB \ PF-1.0)(Q)(P)X0.25 \end{array}$

<u>VMA, Air Voids, VFB and Fines to Effective Binder</u> The Department will determine a pay factor (PF) using Table 7: Method C Acceptance Limits. The Department will not make price adjustments for VMA, Air Voids, VFB or Fines to Effective Binder, but will monitor them as shutdown criteria.

Pay Adjustment Method D

The Department will use density, Performance Graded Asphalt Binder content, and the screen sizes listed in Table 8b for the type of HMA represented in the JMF. If test results do not meet the Table 8 requirements, deducts as shown in Table 8b shall be applied to the quantity of mix represented by the test.

401.223 Process for Dispute Resolution (Methods A B & C only)

<u>a. Dispute Resolution sampling</u> At the time of Hot-Mix Asphalt sampling, the Department will obtain a split sample of each Acceptance test random sample for possible dispute resolution testing. The Contractor shall also obtain a split sample of the HMA at this same time. If the Contractor wishes to retain the option of requesting dispute testing of the initial Acceptance sample, the Contractor will test their split of the

Acceptance sample and shall report their results to the Resident, with a copy to the QA Engineer at the Central Laboratory in Bangor by <u>7:00 AM</u>, on the second working day from time of QA sampling, otherwise dispute resolution will not be initiated. The Department's dispute resolution split sample will be properly labeled and stored for a period of not more than two weeks, or until the sample is tested.

<u>b. Disputing Acceptance results</u> The Contractor may dispute the Department's Acceptance results and request (Methods A, B, & C) that the dispute resolution split sample be tested by notifying the Department's Resident and the QA Engineer at the Central Laboratory in Bangor in writing within two working days after receiving the results of the Acceptance test. The following shall be provided in the request:

- Acceptance sample reference number
- The specific test result(s) or property(ies) being disputed, and
- The complete, signed report of the Contractor's testing (In a lab certified by the NETTCP and MDOT) of their split of the Acceptance sample indicating that the variances in Table10: Dispute Resolution Variance Limits, for the specific test result(s) or property(ies) were exceeded.

<u>c. Disputable items</u> The Contractor may dispute any or all of the following test results when the difference between the Department's value and the Contractor's value for that test equals or exceeds the corresponding allowable variation in Table 10: Dispute Resolution Variance Limits, PGAB content, G_{mb} , and G_{mm} . In addition, if the allowable variation for these tests is not met or exceeded, the Contractor may dispute either or both of the following material properties provided the difference between results for them equals or exceeds the corresponding allowable variation in Table 10: Voids at N_{design} , and VMA. For Method C only, % passing may only be disputed on sieves which are used for price adjustments

<u>d. Outcome</u> The value of any disputed result or property reported for the initial Acceptance sample shall stand if the value reported for the dispute resolution sample is <u>not</u> closer to the value the Contractor reported for their split sample than to the value reported for the initial Acceptance sample. If the value

reported for the dispute resolution falls precisely half-way between the other two values the value reported for the dispute resolution will replace the original acceptance value. Otherwise, the value reported for the dispute resolution sample will replace the value reported for the initial Acceptance sample, and will be used to re-calculate any other affected results or properties.

PGAB Content	+/-0.4%
G_{mb}	+/-0.030
G _{mm}	+/-0.020
Voids @ N _d	+/-0.8%
VMA	+/-0.8%
Passing 4.75 mm and larger sieves	+/- 4.0%
Passing 2.36 mm to 0.60 mm sieves	+/- 3.0%
Passing 0.30 mm to 0.15	+/- 2.0 %
0.075 mm sieve	+/- 1.0%

TABLE 10:	DISPUTE RESOLUTION VARIANCE LIMITS

SECTION 402 - PAVEMENT SMOOTHNESS

<u>402.00 Smoothness Projects</u> Projects to have their pavement smoothness analyzed in accordance with this Specification will be so noted in Special Provision 403 - Bituminous Box

<u>402.01 Pavement Smoothness</u> The final pavement surface shall be evaluated for smoothness using a Class I or Class II profiler as defined by ASTM E950 (94). Smoothness measurements will be expressed in terms of the International Roughness Index (IRI) as defined by the World Bank, in units of inches/mile.

<u>402.02 Lot Size</u> Lot size for smoothness will be 1000 lane-meters [3000 lane-feet]. A sublot will consist of 20 lane-meters [50 lane-feet]. Partial lots will be included in the previous lot if less than one-half the size of a normal lot. If equal to or greater than one-half the normal lot size, it will be tested as a separate lot.

<u>402.03 Acceptance Testing</u> The Department will conduct Acceptance testing following completion of the surface course. Sections to be excluded from testing include the following:

Bridge decks and joints (no smoothness measurements will be taken within 30 m [100 ft] of bridge joints) Acceleration and deceleration lanes

Shoulders and ramps

Side streets and roads

Within 30 m [100 ft] of transverse joints at the beginning and end of the project

Within 30 m [100 ft] of railroad crossings

Urban areas with speed limits of 50 kph [30 mph] or lower

Each lot shall have 2 measurements made in each wheel path. The average of the 4 measurements will determine the smoothness for that lot.

The smoothness measurements will be statistically evaluated for pay factors as described in Subsection 106.7 - Quality Level Analysis, using the specification limits shown below.

ACCEPTAINCE LIMITS			
Level	USL		
Ι	1.10 m/km [70 in/mile]		
II	1.25 m/km [80 in/mile]		
III	1.40 m/km [90 in/mile]		

CCEPTANCE	IIMITC
ULEFIANCE	

Computation of Smoothness Pay Adjustment:

PA = (PF-1.0)(Q)(P)where: Q = Quantity of surface course in the Lot (excluding shoulders, side streets, bridge decks, ramps, acceleration and deceleration lanes) PF =smoothness pay factor for the Lot P =Contract unit price for surface pavement PA =pay adjustment

<u>402.04 Unacceptable Work</u> In the event that any Lot is found to have a pay factor less than 0.80, the Contractor shall take whatever remedial action is required to correct the pavement surface in that Lot at no additional expense to the Department. Such remedial action may include but is not limited to removal and replacement of the unacceptable pavement. In the event remedial action is necessary, the Contractor shall

submit a written plan to the Resident outlining the scope of the remedial work. The Resident must approve this plan before the remedial work can begin. Following remedial work, the Lot shall be retested, and will be subject to the specification limits listed above. The resulting pay factor, if within the acceptable range, will be used in the final pay adjustment. The Contractor shall pay the cost of retesting the pavement following corrective action.

Localized surface tolerance defects will be subject to the provisions outlined in Section 401.101 Surface Tolerances.

Payment will be made under:

Pay Item

Pay Unit

402.10 Incentive/Disincentive - Pavement Smoothness Lump Sum

SECTION 403 - HOT BITUMINOUS PAVEMENT

<u>403.01 Description</u> This work shall consist of constructing one or more courses of bituminous pavement on an approved base in accordance with these specifications, and in reasonably close conformity with the lines, grades, thickness and typical cross sections shown on the plans or established.

The bituminous pavement shall be composed of a mixture of aggregate, filler if required, and bituminous material.

<u>403.02 General</u> The materials and their use shall conform to the requirements of Section 401 - Hot Mix Asphalt Pavement.

<u>403.03 Construction</u> The construction requirements shall be as specified in Section 401 - Hot Mix Asphalt Pavement.

In addition, hot bituminous pavement placed on bridges shall also conform to the following requirements.

- a. The mixture shall be composed of aggregate, PGAB and mineral filler but no recycled asphalt pavement and placed in courses as specified in the Special Provisions.
- b. The bottom course shall be placed with an approved rubber mounted bituminous paver of such type and operated in such a manner that the membrane waterproofing will not be damaged in any way.
- c. The top course shall not be placed until the bottom course has cooled sufficiently to provide stability.
- d. The Contractor will not be required to cut sample cores from the compacted pavement on the bridge deck.
- e. After the top course has been placed, the shoulder areas shall be sealed 1 meter [3 ft] wide with two applications of an emulsified bituminous sealer meeting the requirements of Section 702.12 Emulsified Bituminous Sealing Compound. The first application shall be pre-mixed with fine, sharp sand, similar to mortar sand, as needed to fill all voids in the mix in the area being sealed. The second application may be applied without sand. The sealer shall be carried to the curb at the gutter line in sufficient quantity to leave a bead or fillet of material at the face of the curb. The area to be sealed shall be clean, dry and the surface shall be at ambient temperature.
- f. The furnishing and applying of the required quantity of sealer for the bridge shoulder areas shall be incidental to placing the hot bituminous pavement.
- g. The atmospheric temperature for all courses on bridge decks shall be 10°C [50°F] or higher.

<u>403.04 Method of Measurement</u> Hot bituminous pavement will be measured as specified in Section 401.21-Method of Measurement.

<u>403.05 Basis of Payment</u> The accepted quantities of hot bituminous pavement will be paid for at the contract unit price per Megagram [ton] for the bituminous mixtures, including bituminous material complete in place.

Method A, Method B, Method C and Method D shall be used for acceptance as specified in Section 401 - Hot Mix Asphalt Pavements. (See Complementary Notes, Section 403 - Hot Bituminous Pavement, for Method location).

Pay Unit

Payment will be made under:

Pay Item

403.102	Hot Mix Asphalt Pavement for Special Areas	MG [Ton]
403.206	Hot Mix Asphalt, 25 mm Nominal Maximum Size	MG [Ton]
403.207	Hot Mix Asphalt, 19.0 mm Nominal Maximum Size	MG [Ton]
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size	MG [Ton]
403.209	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size	MG [Ton]
	(sidewalks, drives, islands & incidentals)	
403.210	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size	MG [Ton]
403.211	Hot Mix Asphalt (shimming)	MG [Ton]
403.212	Hot Mix Asphalt, 4.75 mm Nominal Maximum Size	MG [Ton]
403.213	Hot Mix Asphalt, 12.5 mm	MG [Ton]
	Nominal Maximum Size, Base	

Dover Foxcroft STP-9199(00)X Highway - Full Construction Routes 6/15/16 October 1, 2008

SPECIAL PROVISION						
SECTION 403						
		HOT MIX	ASPHALT O	VERLAY		
Desc. of	Grad.		Bit Cont.	Total	No. Of	Comp.
Course	Design It	em Number	% of Mix	Thick	Layers	Notes
		<u>150</u>	mm HMA Ove	erlay		
	Ma	<u>inline Travel</u>	way, Shoulder	s, Parking A	reas	
		<u>Full</u>	Construction A	<u>Areas</u>		
Wearing	12.5mm	403.208	N/A	50mm	1	1,5,8
Base	12.5mm	403.213	N/A	50mm	1	1,5,8
Base	12.5mm	403.213	N/A	50mm	1	1,4,8
	Side Roads					
Wearing	12.5mm	403.208	N/A	50mm	1	1,5,8
Base	12.5mm	403.213	N/A	50mm	1	1,5,8
		<u>Drives, S</u>	idewalks, Islan	nds, Misc.		
Wearing	9.5mm	403.209	N/A	50mm	2/more	2,3,10,11,14

COMPLEMENTARY NOTES

- 1. The required PGAB for this mixture will meet a <u>PG 58-28</u> to <u>PG 64-28</u> grading. The Contractor must stipulate the which PGAB grading will be used to construct the entire HMA pavement structure prior to starting work.
- 2. The density requirements are waived.
- 3. The design traffic level for mix placed shall be <0.3 million ESALS.
- 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.**
- 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 <u>75 gyrations</u>.
- 8. Section 106.6 Acceptance, (2) Method B.
- 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. A <u>4.75mm</u> mixture may be substituted for the island and sidewalk surface layers.
- 14. A mixture meeting the requirements of section 703.09 Grading 'D', with a minimum PGAB content of 6%, and the limits of Special Provision 401, Table 9 (Drives and Sidewalks) for PGAB content and gradation may be substituted for this item. A job mix formula shall be submitted to the department for approval.

Dover Foxcroft STP-9199(00)X Highway - Full Construction Routes 6/15/16 October 1, 2008

Tack Coat

A tack coat of emulsified asphalt, RS-1, Item #409.15 shall be applied to any existing pavement or recycled layer at a rate of approximately 0.08 L/m², and on milled pavement approximately 0.2 L/m², 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 0.08 L/m². Tack used between new layers of pavement will be paid for at the contract unit price for Item 409.15 Bituminous Tack Coat.

Page 2 of 1

SPECIAL PROVISION SECTION 502 STRUCTURAL CONCRETE (Raised Islands)

<u>Description</u> This work shall consist of furnishing and placing a portland cement concrete pavement for Raised Islands and incidental construction as shown on the plans, or as directed by the Resident. Except as otherwise specified in this Special Provision, all work shall be in conformity with the applicable provisions of Section 502 - Structural Concrete, Section 503 - Reinforcing Steel, and Section 515 - Protective Coating for Concrete Surfaces.

MATERIALS

<u>Concrete</u> Concrete shall be Class LP.

<u>Reinforcing Steel</u> Reinforcing steel shall be $152 \times 152 - W1.4 \times W1.4$ Welded Steel Fabric as shown on the plans

<u>Control Joint</u> Zip strip control joint shall be 38 mm [1 ½ inch] type as manufactured by Superior Featherweight Tool Company, 1325, Bixby Drive, City of Industry, CA 91745; Harris Plastic Control Joint Former 38 mm [1 ½ inch] type as manufactured by A.H. Harris & Sons, Inc., 21 Ellis Street, New Britain, CT 06050; or an equivalent.

Joint Sealant Per Section 714.04 - Sealant.

CONSTRUCTION REQUIREMENTS

<u>Preparation of Foundation</u> The foundation bed shall be well graded and compacted, as directed by the Resident, to provide the thickness of concrete indicated on the plans.

Prior to the concrete placement, the foundation bed shall be thoroughly and uniformly saturated with water. The bed shall be free of puddles and excessive surface water.

<u>Placement of Concrete</u> The concrete mix shall be placed in a continuous placement operation. Control joints shall be constructed with zip strip or approved equal. Depth of control joints shall be a minimum of 37.5 mm [1.5 inches] with a zip strip placed transversely at 3 m [10 ft] on centers.

Joint sealant shall be applied at the top surface of the concrete median at construction joints.

The surface of the concrete shall receive a float finish in accordance with Section 502.14(A) - Float Finish. Immediately following the float finish, the surface shall be textured at right angles to the roadway using an approved open-pile, stiff bristle broom finish.

The curing period for the concrete shall be seven days and shall meet the requirements of Section 502.15 - Curing Concrete. The finished surface of the concrete shall receive a protecting coating in accordance with Section 515 - Protective Coating for Concrete Surfaces.

<u>Method of Measurement</u> Structural Concrete, Raised Islands, satisfactorily placed and accepted, will be measured for payment by the cubic meter [cubic yard], in accordance with the dimensions shown on the plans or authorized by the Resident.

<u>Basis of Payment</u> The accepted quantity of Structural Concrete, Roadway Median will be paid for at the contract unit price per cubic meter [cubic yard], which payment will be full compensation for all labor, materials, equipment, and incidentals necessary to complete the work, including the fabrication, delivery, and placement of reinforcement; the furnishing and the application of the protective coating, furnishing and placement of control joint strip and sealant.

Excavation for the placement of the Structural Concrete, Raised Islands will be paid for under the appropriate contract pay item, Section 203 - Excavation and Embankments.

Payment will be made under:

Pay Item

502.3412 Structural Concrete, Raised Islands

Pay Unit

Cubic Meter [Cubic Yard]

Dover - Foxcroft 9199.00 December 5, 2008

SPECIAL PROVISION SECTION 502 STRUCTURAL CONCRETE (QC/QA Acceptance Methods)

CLASS OF CONCRETE	ITEM NUMBER	DESCRIPTION	Р	METHOD
LP	502.3412	Structural Concrete Raised Islands	-	C
FILL	502.56	Concrete Fill	-	С

SPECIAL PROVISION <u>SECTION 502</u> STRUCTURAL CONCRETE (Quality Level Analysis)

502.01 Description In second sentence, replace "...METHOD B Small Qunatity Product Verification..." with "...METHOD B Statistical Acceptance..."

502.05 Composition and Proportioning Delete Table 1 and replace with the following;

Concrete	-	pressive		ability	Entra		Notes
CLASS		ength PSI)	(COUL	OMBS)	A (%	ir 6)	
	LSL	USL	LSL	USL	LSL	<u> </u>	
S	2,900	N/A	N/A	N/A	6.0	8.5	1, 5
А	4,350			2,400	6.0	8.5	1,2,5,6
Р					5 ½	7 1⁄2	1,2,3,4,5
LP	5,075			2,000	6.0	8.5	1,2,5,6
Fill	2,900	N/A	N/A	N/A	N/A	N/A	6

502.503 Delete and replace with the following;

"502.0503 Quality Assurance METHOD B The Department will determine the acceptability of the concrete through a quality assurance program.

The Department will take Quality Assurance samples a minimum of once per sublot on a statistically random basis. Quality Assurance tests will include compressive strength, air content and permeability.

Concrete sampling for quality assurance tests will be taken at the discharge point, with pumped concrete sampling taken at the discharge end of the pump line.

Lot Size A lot size shall consist of the total quantity represented by each class of concrete in the Contract, except in the case when the same class of concrete is paid for under both lump sum items and unit price items in the Contract; in this case, the lump sum item quantities shall comprise 1 lot and the unit price item quantities shall comprise a separate lot. A lot shall consist of a minimum of 3 and a maximum of 10 sublots. If a lot is comprised of more than 10 sublots, sized in accordance with Table #3, then this quantity shall be divided equally into 2, or more, lots such that there is a minimum of 3 and a maximum of 10 sublots per lot. If there is insufficient quantity in a lot to meet the recommended minimum sublot size, then the lot shall be divided into 3 equal sublots.

<u>Sublot Size, General</u> The size of each sublot shall be determined in accordance with Table #3. The Resident may vary sublot sizes based on placement sizes and sequence.

<u>Sublot Size, Unit Price Items</u> Sublot sizes will initially be determined from estimated quantities. When the actual final quantity of concrete is determined: If there is less than one-half the estimated sublot quantity in the remaining quantity, then this quantity shall be combined with the previous sublot, and no further Acceptance testing will be performed; if there is more than one-half the estimated sublot quantity in the remaining quantity, then this quantity shall constitute the last sublot and shall be represented by Acceptance test results. If it becomes apparent part way through a lot that, due to an underrun in quantity, there will be an insufficient quantity of concrete to comprise three sublots, then the Resident may adjust the sizes of the remaining sublots and select new sample locations based on the revised estimated quantity of concrete remaining in the lot.

<u>Sublot Size, Lump Sum Items</u> Each lot shall be divided into sublots of equal size, based on the estimated quantity of concrete.

_	Quantity $m^{3}[cy]$	Recommended Sublot S	Size m ³ [cy]
	0-400 [0-500]	40 [50]	
	401-800 [501-1000]	60 [75]	
	801-1600 [1001-2000]	80 [100]	
	1601 [2001]or greater	200 [250]	

TABLE 3

Determination of the concrete cover over reinforcing steel for structural concrete shall be made prior to concrete being placed in the forms. Bar supports, chairs, slab bolsters, and side form spacers shall meet the requirements of Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice, Chapter 3 Section 2.5 Class 1, Section 2.6 Class 1A, or Section 4. All supports shall meet the requirements for type and spacing as stated in the CRSI Manual of Standard Practice, Chapter 3. Concrete will not be placed until the placing of the reinforcing steel and supports have been approved by the Resident. If the Contractor fails to secure Department approval prior to placement, the Contractor's failure shall be cause for removal and replacement at the Contractor's expense. The Contractor shall notify the Resident, at least 48 hours prior to the placement, when the reinforcing steel will be ready for checking. Sufficient time must be allowed for the checking process and any needed repairs.

Evaluation of materials will be made using the specification limits in Table 1.

Compressive strength tests will be completed by the Department in accordance with AASHTO-T22 at ≥ 28 days, except that no slump will be taken. The average of two concrete cylinders per sublot will constitute a test result and this average will be used to determine the compressive strength for pay adjustment computations.

Testing for Entrained Air in concrete, at the rate of one test per sublot, shall be in accordance with AASHTO T152.

Rapid Chloride Permeability test specimens will be completed by the Resident in accordance with AASHTO T-277 at an age \geq 56 days. Two 100 mm x 200 mm [4 in x 8 in] cylinders will be taken per sublot placed.

Surface Tolerance, Alignment and Trueness, Plumb and Batter, and Finish will be measured as described in Section 502.0502.

<u>Rejection by Resident</u> For an individual sublot with a calculated pay factor of less than 0.80, the Department will, at its sole discretion:

<u>A.</u> Require the Contractor to remove and replace the entire affected placement with concrete meeting the Contract requirements at no additional expense to the Department, or

<u>B.</u> Accept the material, at a reduced payment as determined by the Department. (See also Section 502.191)

For a lot in progress, the Contractor shall discontinue operations whenever one or more of the following occurs:

<u>A.</u> The pay factor for any property drops below 1.00 and the Contractor is taking no corrective action

<u>B.</u> The pay factor for any property is less than 0.90

<u>C.</u> The Contractor fails to follow the QC Plan"

502.18 Method of Measurement Under Section E. make the following change from "....Method A, and under Section 502.19..." to "....Method A, Section 502.0503- Quality Assurance Method B, and under Section 502.19..."

502.19 Basis of Payment Modify the first sentence of the seventh paragraph from "...accepted under Method A." to "...accepted under Method A and Method B."

502.191 Pay Adjustment for Compressive Strength Add the following as the second sentence to the first paragraph; "Pay factors (PF) for pay adjustments for compressive strength will be determined using the Quality Level Analysis as specified in Section 106."

502.192 Pay Adjustment for Chloride Permeability Delete and replace with the following;

"Pay factors (PF) for pay adjustments for Chloride Permeability will be determined using the Quality Level Analysis as specified in Section 106.

Values greater than 4000 coulombs shall be subject to rejection and replacement at no additional cost to the Department."

502.193 Pay Adjustment for Air Content Delete and replace with the following;

"Pay factors (PF) for pay adjustments for air content will be determined using the Quality Level Analysis as specified in Section 106."

Add the following Section;

"502.195 Pay Adjustments for Compressive Strength, Chloride Permeability and Air Content The Composite Pay Factor (CPF) for each lot of concrete shall be computed as follows:

CPF = [(Compressive Strength PF-1)(0.20)] + [(Air Content PF-1)(0.40)] + [(Chloride Permeability PF-1)(0.40)]

The pay adjustment for each lot of concrete shall be computed as follows:

Lot Pay Adjustment = P x CPF x Lot Size

There will be no positive pay adjustments for Method B Concrete."

Dover-Foxcroft PIN 9199.00 December 4, 2008

SPECIAL PROVISIONS SECTION 621 LANDSCAPE (Plant Species Specification and Quantities List)

The following list of items provides the estimated quantities for use on this project. The scientific name of the plant material is provided along with the common name in parenthesis.

The contractor shall follow MDOT Standard Specifications Rev. December, 2002 for landscape materials and installation procedures (sec 621).

The MDOT Landscape Architect or his designee will be available to inspect plant materials and stake the location of plant materials at the time of planting.

In accordance with Section 104.5.9, a separate Performance Bond will not be required for the Landscape portion of this contract. The requirement for a Maintenance Bond for a Two-Year Establishment period will be required incidental to the planting for this project.

ITEM NO	Description	Unit	Quantity	Total
621.025	5 Evergreen Trees 900 – 1200 mm (3' – 4') Group A B&B			5
	Pinus strobus (Eastern White Pine)		5	
621.026	Evergreen Trees 900 – 1200 mm (3' – 4') Group B B&B	Ea.		5
	Picea abies (Norway Spruce)		5	
621.195	Medium Deciduous Trees 45 – 50 mm cal. (1 3/4"- 2") cal. B&B Group A	Ea.		7
	Malus 'Donald Wyman' ('Donald Wyman' Crabapple)		7	
621.196	Medium Deciduous Trees 45 – 50 mm cal. (1 3/4" - 2") cal. B&B Group B			5
	Syringa reticulata (Japanese Tree Lilac)		5	
621.267	Large Deciduous Trees 45 – 50 mm cal. (1 3/4"- 2") cal. Group A	Ea.		5
	Acer saccharum 'Legacy' ('Legacy' Sugar Maple)		5	
621.285	Large Deciduous Trees $75 - 90 \text{ mm}$ $(3'' - 3 \frac{1}{2}'')$ cal. B&B	Ea.		1
	Acer saccharum 'Legacy' ('Legacy' Sugar Maple)		1	

PLANT MATERIALS

SPECIAL PROVISION SECTION 639 ENGINEERING FACILITIES (Telephone)

639.09 Telephone

Paragraph 1 is amended as follows:

The contractor shall provide two telephone lines and two telephones,....

Add-

In addition the contractor will supply one computer broadband connection and modem lease. The type of connection supplied will be contingent upon the availability of services (i.e. DSL or Cable Broadband). It shall be the contractor's option to provide dynamic or static IP addresses through the service. The selected service will have a minimum downstream connection of 1.5 Mbps and 384 Kbps upstream. The contractor shall be responsible for the installation charges and all reinstallation charges following suspended periods. Monthly service and maintenance charges shall be billed by the Internet Service Provider (ISP) directly to the contractor.

SPECIAL PROVISION <u>SECTION 652</u> MAINTENANCE OF TRAFFIC

<u>Approaches</u> Approach signing shall include the following signs as a minimum. Field conditions may warrant the use of additional signs as determined by the Resident.

Road Work Next x Miles Road Work 500 Feet End Road Work

Work Area At each work site, signs and channelizing devices shall be used as directed by the Resident. Signs include:

Road Work xxxx¹ One Lane Road Ahead Flagger Sign

Other typical signs include:

Be Prepared to Stop Low Shoulder Bump Pavement Ends

The above lists of Approach signs and Work Area signs are representative of the contract requirements. Other sign legends may be required.

The Contractor shall conduct their operations in such a manner that the roadway will not be restricted to one lane for more than 800 m [2,500 ft] at each work area. Where more than one work area restricts traffic to one lane operation, these work areas shall be separated by at least 1.6 km [1 mile] of two way operation.

<u>Temporary Centerline</u> A temporary centerline shall be placed each day on all new pavement to be used by traffic. The temporary centerline, when specified of reflectorized traffic paint, shall conform to the standard marking patterns used for permanent markings.

Failure to apply a temporary centerline daily will result in suspension of paving until temporary markers are applied to all previously placed pavement.

¹ "Road Work Ahead" to be used in mobile operations and "Road Work xx ft" to be used in stationary operations as directed by the Resident.

SPECIAL PROVISION SECTION 652 MAINTENANCE OF TRAFFIC (Traffic Control)

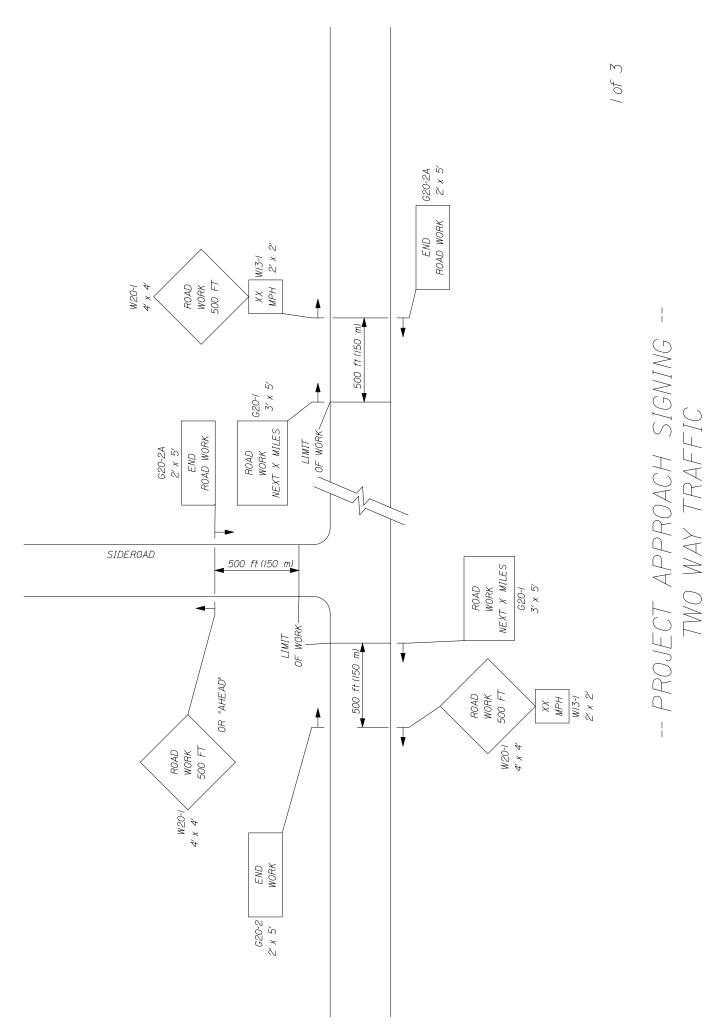
Failure by the contractor to follow the Contracts 652 Special Provisions and Standard Specification and/or The Manual on Uniform Traffic Control Devices (MUTCD) and/or The Contractors own Traffic Control Plan will result in a violation letter and result in a reduction in payment as shown in the schedule below. The Departments Resident or any other representative of The Department reserves the right to suspend the work at any time and request a meeting to discuss violations and remedies. The Department shall not be held responsible for any delay in the work due to any suspension under this item. Any reduction in payment under this Special Provision will be in addition to forfeiting payment of maintenance of traffic control devices for that day.

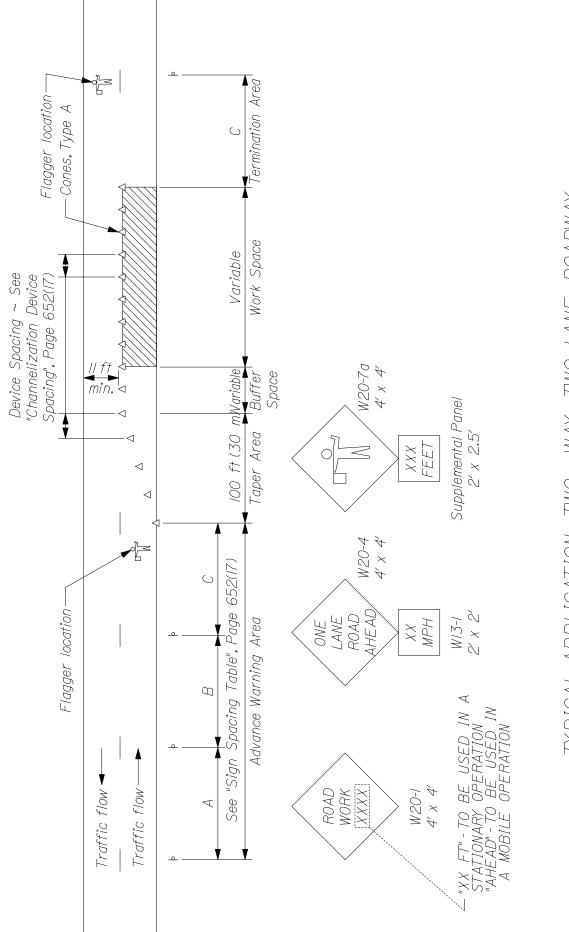
ORIGINAL CONTRACT AMOUNT

from	Up to and	Amount of Penalty		
More Than	Including	Damages per Violation		
\$0	\$100,000	\$250		
\$100,000	\$300,000	\$500		
\$300,000	\$500,000	\$750		
\$500,000	\$1,000,000	\$1,500		
\$1,000,000	\$2,000,000	\$2,500		
\$2,000,000	\$4,000,000	\$5,000		
\$4,000,000	and more	\$10,000		

SPECIAL PROVISION SECTION 652 <u>MAINTENANCE OF TRAFFIC</u> Construction Sign Sheeting Material

Super high intensity fluorescent retroreflective sheeting, ASTM D 4956 - Type VII, Type VIII, or Type IX (prismatic), is required for all construction signs.





TYPICAL APPLICATION: TWO - WAY, TWO LANE ROADWAY, CLOSING ONE LANE USING FLAGGERS

* Formulas for L are as follows:	For speed limits of 40 mph (60 km/h) or less:	$(L = \frac{WS^2}{16K})$	For speed limits of 45 mph (70 km/h) or greater.	$r = WS$ (L = $\frac{WS}{6}$)	las for L are as follows:	A minimum of 5 channelization devices shall	CHANNELIZATION DEVICE SPACING The spacing of channelization devices shall not exceed a distance equal to 1.0 times the speed limit in mph when used for taper channelization, and a distance in feet of 2.0 times the speed limit in mph when used for tangent channelization.	GENERAL NOTES;	1. Final placement of signs and	devices may be changed to fit	the Decident as approved by							
* Formu		$L = \frac{WS^2}{60}$	For spee	L = WS	* Formu	A minimu	nce equal to 0 times the t		Signs**	U	100 (30)	350 (100)		_	<u>v</u>		Length (feet)	325
	NGTH (L)	L L	0.5L	.33L	naximum	ber lane	eed a dista in feet of 2.		Distance Between Signs**	B	100 (30)	350 (100)	500 (150) 1.500 (450)					ю́
	TAPER LENGTH (L)*	at least	at least 0.5L	at least 0.33L	100 ft (30 m) maximum	100 ft (30 m) per lane	hall not exce a distance	G TABLE	Distance	4	10	350 (100)	500 (150) 2,640 (800)		ER ZONF		Speed (mp	40
							E SPACING on devices s lization, and	SIGN SPACING TABLE						et (meters).	SHIGGESTED BLIFFER ZONF LENGTHS		Length (feet) Speed (mph)	115
	TYPE OF TAPER	Merging Taper	Shifting Taper	Shoulder Taper	One-Lane, Two-Way Traffic Taper	Downstream Taper	CHANNELIZATION DEVICE SPACING The spacing of channelization devices shall no when used for taper channelization, and a dist tangent channelization.	SIG		Road Iype	Urban 30 mph (50 km/h) or less	Urban 35 mph (55 km/h) and greater	Rural Expresswav / Urban Parkwav	**Distances are shown in feet (meters).	LS JUGES		Speed (mph)	20
	Υ	E		S	One-Lane,	Do	CHANNELIZATION DE The spacing of channe when used for taper ch tangent channelization.				Urban 30 n	Urban 35 n	Expressw	**Distance		_		

Length (feet)	325	360	425	495
Length (feet) Speed (mph)	0†	45	90	22
Length (feet)	115	155	200	250
Speed (mph)	20	25	08	35

SPECIAL PROVISION SECTION 656

Temporary Soil Erosion and Water Pollution Control

The following is added to Section 656 regarding Project Specific Information and Requirements. All references to the Maine Department of Transportation Best Management Practices for Erosion and Sediment Control (a.k.a. Best Management Practices manual or BMP Manual) are a reference to the latest revision of said manual. The latest version is dated February 2008 and is available at <u>http://www.state.me.us/mdot/environmental-office-homepage/2008bmpmanual.php</u>. **Procedures specified shall be according to the BMP Manual unless stated otherwise.**

Any and all references to "bark mulch" or "composted bark mix" shall be a reference to " Erosion Control Mix" in accordance with *Standard Specification, Section 619 - Mulch.*

Project Specific Information and Requirements

- 1. The following information and requirements apply specifically to this Project. The temporary soil erosion and water pollution control measures associated with this work shall be addressed in the SEWPCP.
- 2. This project is in the Piscataquis River watershed, which is not considered sensitive according to Section II.D. of the revised BMP Manual; however, the Contractor's SEWPCP shall comply with Section II.D., <u>Guidance for Sensitive Water Bodies</u>.
- 3. Newly disturbed earth shall be mulched by the end of each workday. Mulch shall be maintained on a daily basis.
- 4. The SEWPCP shall describe the location and method of temporary erosion and sediment control for existing and proposed catch basins, outlet areas and culvert inlets and outlets.
- 5. Dust control items other than those under *Standard Specification, Section* 637 <u>Dust</u> <u>Control</u>, if applicable, shall be included in the plan.
- 6. Permanent slope stabilization measures shall be applied within one week of the last soil disturbance.
- Permanent seeding shall be done in accordance with *Standard Specification*, *Section 618* <u>Seeding</u> unless the Contract states otherwise.
- 8. After November 1 the Contractor shall use winter stabilization methods, such as Erosion Control Mix as specified in *Standard Specification, Section 619 Mulch*. If required, spring procedures for permanent stabilization shall also be described in the plan. Use of this product for over-winter temporary erosion control will be incidental to the contract and be paid for as part of Pay Item 656.75.
- 9. All disturbed ditches shall be stabilized by the end of each workday. Stabilization shall be maintained on a daily basis.

SPECIAL PROVISION SECTION 656

Temporary Soil Erosion and Water Pollution Control

- 10. Erosion control blanket shall be installed in the bottoms of all ditches except where a stone lining is planned. Seed shall be applied prior to the placement of the blanket.
- 11. If check dams are used, they shall be constructed of stone in accordance with BMP Manual. *Hay Bale Temporary Check Dams* are not to be used.

DOVER-FOXCROFT ROUTE 6/15/16 HIGHWAY IMPROVEMENT PROJECT PIN 009199.00

GENERAL NOTE

MaineDOT found evidence of petroleum-related soil contamination between Stations 2+120 through 2+200, left of centerline at depths of 3 to 4 meters below ground surface. This contamination is deeper than any proposed excavation in the area. In light of these findings, the contractor shall employ appropriate health and safety measures to protect its workers against hazards associated with excavating and working near petroleum-impacted soils. Furthermore, the Contractor shall remain alert for any additional evidence of contamination. If the Contractor shall secure the excavation, stop work in the contaminated area, and immediately notify the Engineer. The Engineer shall contact the Hydrogeologist in MaineDOT's Environmental Office at 207-624-3100. Work may only continue with authorization from the Engineer.

SPECIAL PROVISION SECTION 812 SEWER MANHOLE

<u>Description</u> This work shall consist of the installation and adjustment of manholes as indicated in the Bid Book, Plans, or as directed by the Resident.

Sewer Manhole shall consist of removing an existing manhole and replacing with a new manhole in accordance with Section 604 - Manholes, Inlets, and Catch Basins.

Adjust Sewer Manhole to Grade shall consist of adjusting a manhole to the required final grade, including any lowering and any other adjustments that may be necessary prior to setting the final grade and in accordance with this Section and Section 604 - Manholes, Inlets, and Catch Basins.

Hardware for attaching MH frames to cone sections shall consist of ³/₄" continuous threaded lagstuds, field cut to length, 2" diameter heavy duty flat washers, lock washers, and heavy duty hex lag nuts.

Concrete frame riser ring shall be reinforced with two #3 bar hoops per 4" of height. Manhole frame exterior shall have 9 gauge wire lifting hoops. All MH joints shall be water tight with approved sealant with minimum 1/8 thickness.

Rebuild Sewer Manhole shall consist of rebuilding and adjusting a sewer manhole in accordance with this Section and Section 604 - Manholes, Inlets, and Catch Basins

<u>Pay I</u>	tem	Pay Unit		
812.06	Sewer Manhole	Each		
812.162	Adjust Sewer Manhole to Grade	Each		
812.164	Rebuild Sewer Manhole	Each		

STANDARD DETAIL UPDATES

Standard Details and Standard Detail updates are available at: http://www.maine.gov/mdot/contractor-consultant-information/ss_standard_details_updates.php

<u>Detail #</u> 504(15)	Description Diaphragms	<u>Revision Date</u> 12/30/02
507(04)	Steel Bridge Railing	2/05/03
526(33)	Concrete Transition Barrier	8/18/03
645(06)	H-Beam Posts – Highway Signing	7/21/04
645(09)	Installation of Type II Signs	7/21/04
626(09)	Electrical Junction Box for Traffic Signals and Lighting	2/25/05
604(01)	Catch Basins	11/16/05
604(05)	Type "A" & "B" Catch Basin Tops	11/16/05
604(06)	Type "C" Catch Basin Tops	11/16/05
604(07)	Manhole Top "D"	11/16/05
604(09)	Catch Basin Type "E"	11/16/05
606(02)	Multiple Mailbox Support	11/16/05
606(07)	Reflectorized Beam Guardrail Delineator Details	11/16/05
609(06)	Vertical Bridge Curb	11/16/05
504(23)	Hand-Hold Details	12/08/05
609(03)	Curb Type 3	6/27/06
609(07)	Curb Type 1	6/27/06
535(01)	Precast Superstructure - Shear Key	10/12/06
535(02)	Precast Superstructure - Curb Key & Drip Notch	10/12/06
535(03)	Precast Superstructure - Shear Key	10/12/06
535(04)	Precast Superstructure - Shear Key	10/12/06

535(05)	Precast Superstructure - Post Tensioning	10/12/06
535(06)	Precast Superstructure - Sections	10/12/06
535(07)	Precast Superstructure - Precast Slab & Box	10/12/06
535(08)	Precast Superstructure - Sections	10/12/06
535(09)	Precast Superstructure - Sections	10/12/06
535(10)	Precast Superstructure - Sections	10/12/06
535(11)	Precast Superstructure - Sections	10/12/06
535(12)	Precast Superstructure - Sections	10/12/06
535(13)	Precast Superstructure - Sections	10/12/06
535(14)	Precast Superstructure - Stirrups	10/12/06
535(15)	Precast Superstructure - Plan	10/12/06
535(16)	Precast Superstructure - Reinforcing	10/12/06
535(17)	Precast Superstructure - Notes	10/12/06
801(01)	Drives on Sidewalk Sections	2/06/07
801(02)	Drives on Non-Sidewalk Sections	2/06/07
535(03)	Precast Superstructure - Shear Key	12/5/07
535(04)	Precast Superstructure - Shear Key	12/5/07
535(05)	Precast Superstructure - Post Tensioning	12/5/07
535(17)	Precast Superstructure - Notes	12/5/07
801(01)	Drives on Sidewalk Sections	1/04/08
801(02)	Drives on Non-Sidewalk Sections	1/04/08
203(03)	Backslope Rounding	1/29/08
535(02)	Precast Superstructure - Curb Key & Drip Notch	5/20/08
535(05)	Precast Superstructure - Post Tensioning	5/20/08

SUPPLEMENTAL SPECIFICATION

(Corrections, Additions, & Revisions to Standard Specifications - Revision of December 2002)

SECTION 101 CONTRACT INTERPRETATION

101.2 Definitions

<u>Closeout Documentation</u> Replace the sentence "A letter stating the amount..... DBE goals." with "DBE Goal Attainment Verification Form"

Add "<u>Environmental Information</u> Hazardous waste assessments, dredge material test results, boring logs, geophysical studies, and other records and reports of the environmental conditions. For a related provision, see Section 104.3.14 - Interpretation and Interpolation."

Add "<u>Fabrication Engineer</u> The Department's representative responsible for Quality Assurance of pre-fabricated products that are produced off-site."

<u>Geotechnical Information</u> Replace with the following: "Boring logs, soil reports, geotechnical design reports, ground penetrating radar evaluations, seismic refraction studies, and other records of subsurface conditions. For a related provision, see Section 104.3.14 - Interpretation and Interpolation."

<u>SECTION 102</u> DELIVERY OF BIDS

<u>102.7.1 Location and Time</u> Add the following sentence "As a minimum, the Bidder will submit a Bid Package consisting of the Notice to Contractors, the completed Acknowledgement of Bid Amendments form, the completed Schedule of Items, 2 copies of the completed Agreement, Offer, & Award form, a Bid Bond or Bid Guarantee, and any other Certifications or Bid Requirements listed in the Bid Book."

<u>102.11.1 Non-curable Bid Defects</u> Replace E. with "E. The unit price and bid amount is not provided or a lump sum price is not provided or is illegible as determined by the Department."

SECTION 103 AWARD AND CONTRACTING

<u>103.3.1 Notice and Information Gathering</u> Change the first paragraph to read as follows: "After Bid Opening and as a condition for Award of a Contract, the Department may require an Apparent Successful Bidder to demonstrate to the Department's satisfaction that the Bidder is responsible and qualified to perform the Work."

SECTION 104 GENERAL RIGHTS AND RESPONSIBILITIES

<u>104.3.14</u> Interpretation and Interpolation In the first sentence, change "...and Geotechnical Information." to "...Environmental Information, and Geotechnical Information." Delete the entire Section 104.5.9 and replace with the following:

"<u>104.5.9 Landscape Subcontractors</u> The Contractor shall retain only Landscape Subcontractors that are certified by the Department's Environmental Office Landscape Unit."

SECTION 105 GENERAL SCOPE OF WORK

Delete the entire Section 105.6 and replace with the following:

<u>105.6.1</u> Department Provided Services The Department will provide the Contractor with the description and coordinates of vertical and horizontal control points, set by the Department, within the Project Limits, for full construction Projects and other Projects where survey control is necessary. For Projects of 1,500 feet in length, or less: The Department will provide three points. For Projects between 1,500 and 5,000 feet in length: The Department will provide one set of two points at each end of the Project. For Projects in excess of 5,000 feet in length, the Department will provide one set of two points for each mile of Project length. For non-full construction Projects and other Projects where survey control is not necessary, the Department will not set any control points and, therefore, will not provide description and coordinates of any control points. Upon request of the Contractor, the Department will provide the Department's survey data management software and Survey Manual to the Contractor, or its survey Subcontractor, for the exclusive use on the Department's Projects.

<u>105.6.2 Contractor Provided Services</u> Utilizing the survey information and points provided by the Department, described in Subsection 105.6.1, Department Provided Services, the Contractor shall provide all additional survey layout necessary to complete the Work. This may include, but not be limited to, reestablishing all points provided by the Department, establishing additional control points, running axis lines, providing layout and maintenance of all other lines, grades, or points, and survey quality control to ensure conformance with the Contract. The Contractor is also responsible for providing construction centerline, or close reference points, for all Utility Facilities relocations and adjustments as necessary to complete the Work. When the Work is to connect with existing Structures, the Contractor shall verify all dimensions before proceeding with the Work. The Contractor shall employ or retain competent engineering and/or surveying personnel to fulfill these responsibilities.

The Contractor must notify the Department of any errors or inconsistencies regarding the data and layout provided by the Department as provided by Section 104.3.3 - Duty to Notify Department If Ambiguities Discovered.

<u>105.6.2.1 Survey Quality Control</u> The Contractor is responsible for all construction survey quality control. Construction survey quality control is generally defined as, first, performing initial field survey layout of the Work and, second, performing an independent check of the initial layout using independent survey data to assure the accuracy of the initial layout; additional iterations of checks may be required if significant discrepancies are discovered in this process. Construction survey layout quality control also requires written documentation of the layout process such that the process can be followed and repeated, if necessary, by an independent survey crew.

<u>105.6.3 Survey Quality Assurance</u> It is the Department's prerogative to perform construction survey quality assurance. Construction survey quality assurance may, or may not, be performed by the Department. Construction survey quality assurance is generally defined as an independent check of the construction survey quality control. The construction survey quality assurance process may involve physically checking the Contractor's construction survey layout using independent survey data, or may simply involve reviewing the construction survey quality control written documentation. If the Department elects to physically check the Contractor's survey layout, the Contractor's designated surveyor may be required to be present. The Department will provide a minimum notice of 48 hours to the Contractor, whenever possible, if the Contractor's designated surveyor's presence is required. Any errors discovered through the quality assurance process shall be corrected by the Contractor, at no additional cost to the Department.

<u>105.6.4 Boundary Markers</u> The Contractor shall preserve and protect from damage all monuments or other points that mark the boundaries of the Right-of-Way or abutting parcels that are outside the area that must be disturbed to perform the Work. The Contractor indemnifies and holds harmless the Department from all claims to reestablish the former location of all such monuments or points including claims arising from 14 MRSA § 7554-A. For a related provision, see Section 104.3.11 - Responsibility for Property of Others.

SECTION 106 QUALITY

<u>106.4.3 Testing</u> Change the first sentence in paragraph three from "…maintain records of all inspections and tests." to "…maintain original documentation of all inspections, tests, and calculations used to generate reports."

<u>106.6 Acceptance</u> Add the following to paragraph 1 of A: "This includes Sections 401 - Hot Mix Asphalt, 402 - Pavement Smoothness, and 502 - Structural Concrete - Method A - Air Content."

Add the following to the beginning of paragraph 3 of A: "For pay factors based on Quality Level Analysis, and"

<u>106.7.1 Standard Deviation Method</u> Add the following to F: "Note: In cases where the mean of the values is equal to either the USL or the LSL, then the PWL will be 50 regardless of the computed value of s."

Add the following to H: "Method C Hot Mix Asphalt: PF = [55 + (Quality Level *0.5)] * 0.01"

SECTION 107

TIME

<u>107.3.1 General</u> Add the following: "If a Holiday occurs on a Sunday, the following Monday shall be considered a Holiday. Sunday or Holiday work must be approved by the Department, except that the Contractor may work on Martin Luther King Day, President's Day, Patriot's Day, the Friday after Thanksgiving, and Columbus Day without the Department's approval."

From	Up to and	Amount of Liquidated
More Than	Including	Damages per Calendar Day
\$0	\$100,000	\$100
\$100,000	\$300,000	\$200
\$300,000	\$500,000	\$400
\$500,000	\$1,000,000	\$575
\$1,000,000	\$2,000,000	\$750
\$2,000,000	\$4,000,000	\$900
\$4,000,000	and more	\$1,875

<u>107.7.2 Schedule of Liquidated Damages</u> Replace the table of Liquidated Damages as follows:

SECTION 108 PAYMENT

<u>108.4 Payment for Materials Obtained and Stored</u> First paragraph, second sentence, delete the words "...Delivered on or near the Work site at acceptable storage places."

SECTION 109 CHANGES

<u>109.1.1 Changes Permitted</u> Add the following to the end of the paragraph: "There will be no adjustment to Contract Time due to an increase or decrease in quantities, compared to those estimated, except as addressed through Contract Modification(s)."

<u>109.1.2</u> Substantial Changes to Major Items Add the following to the end of the paragraph: "Contract Time adjustments may be made for substantial changes to Major Items when the change affects the Critical Path, as determined by the Department"

109.4.4 Investigation / Adjustment Third sentence, delete the words "subsections (A) - (E)"

109.5.1 Definitions - Types of Delays

<u>B. Compensable Delay</u> Replace (1) with the following; "a weather related Uncontrollable Event of such an unusually severe nature that a Federal Emergency Disaster is declared. The Contractor will only be entitled to an Equitable Adjustment if the Project falls within the geographic boundaries prescribed under the disaster declaration."

<u>109.7.2 Basis of Payment</u> Replace with the following: "Equitable Adjustments will be established by mutual Agreement for compensable items listed in Section 109.7.3-Compensable Items, based upon Unit or Lump Sum Prices. If Agreement cannot be reached, the Contractor shall accept payment on a Force Account basis as provided in Section 109.7.5 - Force Account Work, as full and complete compensation for all Work relating to the Equitable Adjustment."

<u>109.7.3 Compensable Items</u> Replace with the following: "The Contractor is entitled to compensation for the following items, with respect to agreed upon Unit or Lump Sum Prices:

- 1. Labor expenses for non-salaried Workers and salaried foremen.
- 2. Costs for Materials.
- 3. A 15 % markup on the totals of Items 1 and 2 of this subsection 109.7.3 for home office overhead and profit of the Contractor, its Subcontractors and suppliers, and any lower tier Subcontractors or suppliers, with no mark-ups on mark-ups.
- 4. Cost for Equipment, based on Blue Book Rates or leased rates, as set forth in Section 109.7.5(C), or the Contractor's Actual Costs if determined by the Department to be lower.
- 5. Time.
- 6. Subcontractor quoted Work, as set forth below in Section 109.7.5 (F)."

109.7.5 Force Account Work

C. Equipment

Paragraph 2, delete sentence 1 which starts; "Equipment leased...."

Paragraph 6, change sentence 2 from "The Contractor may furnish..." to read "If requested by the Department, the Contractor will produce cost data to assist the Department in the establishment of such rental rate, including all records that are relevant to the Actual Costs including rental Receipts, acquisition costs, financing documents, lease Agreements, and maintenance and operational cost records."

Add the following paragraph; "Equipment leased by the Contractor for Force Account Work and actually used on the Project will be paid for at the actual invoice amount plus 10% markup for administrative costs."

Add the following section;

"<u>F. Subcontractor Work</u> When accomplishing Force Account Work that utilizes Subcontractors, the Contractor will be allowed a maximum markup of 5% for profit and overhead on the Subcontractor's portion of the Force Account Work."

SECTION 110 INDEMNIFICATION, BONDING, AND INSURANCE

Delete the entire Section 110.2.3 and replace with the following:

<u>110.2.3 Bonding for Landscape Establishment Period</u> The Contractor shall provide a signed, valid, and enforceable Performance, Warranty, or Maintenance Bond complying with the Contract, to the Department at Final Acceptance.

The bond shall be in the full amount for all Pay Items for work pursuant to Sec 621, Landscape, payable to the "Treasurer - State of Maine," and on the Department's forms, on exact copies thereof, or on forms that do not contain any significant variations from the Department's forms as solely determined by the Department.

The Contractor shall pay all premiums and take all other actions necessary to keep said bond in effect for the duration of the Landscape Establishment Period described in Special Provision 621.0036 - Establishment Period. If the Surety becomes financially insolvent, ceases to be licensed or approved to do business in the State of Maine, or stops operating in the United States, the Contractor shall file new bonds complying with this Section within 10 Days of the date the Contractor is notified or becomes aware of such change.

All Bonds shall be procured from a company organized and operating in the United States, licensed or approved to do business in the State of Maine by the State of Maine Department of Business Regulation, Bureau of Insurance, and listed on the latest Federal Department of the Treasury listing for "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies."

By issuing a bond, the Surety agrees to be bound by all terms of the Contract, including those related to payment, time for performance, quality, warranties, and the Department's self-help remedy provided in Section 112.1 - Default to the same extent as if all terms of the Contract are contained in the bond(s).

Regarding claims related to any obligations covered by the bond, the Surety shall provide, within 60 Days of Receipt of written notice thereof, full payment of the entire claim or written notice of all bases upon which it is denying or contesting payment. Failure of the Surety to provide such notice within the 60-day period constitutes the Surety's waiver of any right to deny or contest payment and the Surety's acknowledgment that the claim is valid and undisputed.

SECTION 202 REMOVING STRUCTURES AND OBSTRUCTIONS

<u>202.02 Removing Buildings</u> Make the following change to the last sentence in the final paragraph, change "...Code of Maine Regulations 401." to "...Department of Environmental Protection Maine Solid Waste Management Rules, 06-096 CMR Ch. 401, Landfill Siting, Design and Operation."

SECTION 203 EXCAVATION AND EMBANKMENT

<u>203.01</u> Description Under b. Rock Excavation; add the following sentence: "The use of perchlorate is not allowed in blasting operations."

SECTION 502 STRUCTURAL CONCRETE

502.05 Composition and Proportioning; <u>TABLE #1</u>; <u>NOTE #2</u>; third sentence; Change "...alcohol based saline sealer..." to "alcohol based silane sealer...". Add NOTE #6 to Class S Concrete.

<u>502.0502</u> Quality Assurance Method A - <u>Rejection by Resident</u> Change the first sentence to read: "For an individual sublot with <u>test results failing to meet the criteria in Table #1, or if the</u> calculated pay factor <u>for Air Content is</u> less than 0.80....."

<u>502.0503</u> Quality Assurance Method B - Rejection by Resident Change the first sentence to read: "For material represented by a verification test with test results failing to meet the criteria in Table #1, the Department will....."

502.0505 Resolution of Disputed Acceptance Test Results Combine the second and third sentence to read: "Circumstances may arise, however, where the Department may" 502.10 Forms and False work

<u>D. Removal of Forms and False work</u> 1., First paragraph; first, second, and third sentence; replace "forms" with "forms and false work"

502.11 Placing Concrete

<u>G. Concrete Wearing Surface and Structural Slabs on Precast Superstructures</u> Last paragraph; third sentence; replace "The temperature of the concrete shall not exceed 24° C [75° F} at the time of placement." with "The temperature of the concrete shall not exceed 24° C [75° F} at the time the concrete is placed in its final position."

<u>502.15 Curing Concrete</u> First paragraph; replace the first sentence with the following; "All concrete surfaces shall be kept wet with clean, fresh water for a curing period of at least 7 days after concrete placing, with the exception of vertical surfaces as provided for in Section 502.10 (D) - Removal of Forms and False work."

Second paragraph; delete the first two sentences.

Third paragraph; delete the entire paragraph which starts "When the ambient temperature...."

Fourth paragraph; delete "approved" to now read "...continuously wet for the entire curing period..."

Fifth paragraph; second sentence; change "...as soon as it is possible to do so without damaging the concrete surface." to "...as soon as possible."

Seventh paragraph; first sentence; change "...until the end of the curing period." to "...until the end of the curing period, except as provided for in Section 502.10(D) - Removal of Forms and False work."

<u>502.19</u> Basis of Payment First paragraph, second sentence; add "pier nose armor" to the list of items included in the contract price for concrete.

SECTION 503 REINFORCING STEEL

503.06 Placing and Fastening Change the second paragraph, first sentence from: "All tack welding shall be done in accordance with Section 504, Structural Steel." to "All tack welding shall be done in accordance with AWS D1.4 Structural Welding Code - Reinforcing Steel."

<u>SECTION 504</u> STRUCTURAL STEEL

<u>504.09 Facilities for Inspection</u> Add the follow as the last paragraph: "Failure to comply with the above requirements will be consider to be a denial to allow access to work by the Contractor. The Department will reject any work done when access for inspection is denied."

504.18 Plates for Fabricated Members Change the second paragraph, first sentence from: "...ASTM A 898/A 898 M..." to "...ASTM A 898/A 898 M or ASTM A 435/A 435 M as applicable and..."

504.31 Shop Assembly Add the following as the last sentence: "The minimum assembly length shall include bearing centerlines of at least two substructure units."

504.64 Non Destructive Testing-Ancillary Bridge Products and Support Structures Change the third paragraph, first sentence from "One hundred percent..." to "Twenty five percent..."

SECTION 535

PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE

535.02 Materials Change "Steel Strand for Concrete Reinforcement" to "Steel Strand." Add the following to the beginning of the third paragraph; "Concrete shall be Class P conforming to the requirements in this section. 28 day compressive strength shall be as stated on the plans. Coarse aggregate...."

<u>535.05 Inspection Facilities</u> Add the follow as the last paragraph: "If the above requirements are not met, the Contractor shall be considered to be in violation of Standard Specification 104.2.5 - Right to Inspect Work. All work occurring during a violation of this specification will be rejected."

535.26 Lateral Post-Tensioning Replace the first paragraph; "A final tension..." with "Overstressing strands for setting losses cannot be accomplished for chuck to chuck lengths of 7.6 m [25 ft] and less. In such instances, refer to the Plans for all materials and methods. Otherwise, post-tensioning shall be in accordance with PCI standards and shall provide the anchorage force noted in the Plans. The applied jacking force shall be no less than 100% of the design jacking force."

SECTION 603

PIPE CULVERTS AND STORM DRAINS

<u>603.0311</u> Corrugated Polyethylene Pipe for Option III Replace the Minimum Mandrel Diameter Table with the following:

Nominal Size	Minimum Mandrel	Nominal Size	Minimum Mandrel
US Customary (in)	Diameter (in)	Metric (mm)	Diameter (mm)
12	11.23	300	280.73
15	14.04	375	350.91
18	16.84	450	421.09
24	22.46	600	561.45
30	28.07	750	701.81
36	33.69	900	842.18
42	39.30	1050	982.54
48	44.92	1200	1122.90

SECTION 604 MANHOLES, INLETS, AND CATCH BASINS

604.02 Materials Add the following:	
"Tops and Traps	712.07
Corrugated Metal Units	712.08
Catch Basin and Manhole Steps	712.09"

SECTION 605 UNDERDRAINS

605.05 Underdrain Outlets Make the following change:

In the first paragraph, second sentence, delete the words "metal pipe".

SECTION 606 GUARDRAIL

<u>606.02 Materials</u> Delete the entire paragraph which reads "The sole patented supplier of multiple mailbox...." and replace with "Acceptable multiple mailbox assemblies shall be listed on the Department's Approved Products List and shall be NCHRP 350 tested and approved." Delete the entire paragraph which reads "Retroreflective beam guardrail delineators...." and replace with "Reflectorized sheeting for Guardrail Delineators shall meet the requirements of Section 719.01 - Reflective Sheeting. Delineators shall be fabricated from high-impact, ultraviolet and weather resistant thermoplastic.

<u>606.09 Basis of Payment</u> First paragraph; delete the second and third sentence in their entirety and replace with "Butterfly-type guardrail reflectorized delineators shall be mounted on all W-beam guardrail at an interval of every 10 posts [62.5 ft] on tangents sections and every 5 posts [31.25 ft] on curved sections as directed by the Resident. On divided highways, the delineators shall be yellow on the left hand side and silver/white on the right hand side. On two-way

roadways, the delineators shall be silver/white on the right hand side. All delineators shall have retroreflective sheeting applied to only the traffic facing side. Reflectorized guardrail delineators will not be paid for directly, but will be considered incidental to the guardrail items."

SECTION 609 CURB

<u>609.04 Bituminous Curb</u> <u>f.</u>, Delete the requirement "Color

Natural (White)"

SECTION 615 LOAM

<u>615.02 Materials</u> Make the following change:

Organic Content Humus <u>Percent by Volume</u> "5% - 10%", as determined by Ignition Test

SECTION 618 SEEDING

<u>618.01</u> Description Change the first sentence to read as follows: "This work shall consist of furnishing and applying seed" Also remove ",and cellulose fiber mulch" from 618.01(a). <u>618.03</u> Rates of Application In 618.03(a), remove the last sentence and replace with the following: "These rates shall apply to Seeding Method 2, 3, and Crown Vetch."

In 618.03(c) "1.8 kg [4 lb]/unit." to "1.95 kg [4 lb]/unit."

<u>618.09 Construction Method</u> In 618.09(a) 1, sentence two, replace "100 mm [4 in]" with "25 mm [1 in] (Method 1 areas) and 50 mm [2 in] (Method 2 areas)"

<u>618.15 Temporary Seeding</u> Change the Pay Unit from Unit to Kg [lb].

SECTION 620 GEOTEXTILES

<u>620.03 Placement</u> Section (c)

Title: Replace "Non-woven" in title with "Erosion Control". First Paragraph: Replace first word "Non-woven" with "Woven monofilament". Second Paragraph: Replace second word "Non-woven" with "Erosion Control".

620.07 Shipment, Storage, Protection and Repair of Fabric Section (a)

Replace the second sentence with the following: "Damaged geotextiles, <u>as identified by</u> <u>the Resident</u>, shall be repaired immediately."

620.09 Basis of Payment

Pay Item 620.58: Replace "Non-woven" with "Erosion Control" Pay Item 620.59: Replace "Non-woven" with "Erosion Control"

SECTION 621 LANDSCAPING

<u>621.0036 Establishment Period</u> In paragraph 4 and 5, change "time of Final Acceptance" to "end of the period of establishment". In Paragraph 7, change "Final Acceptance date" to ""end of the period of establishment" and change "date of Final Acceptance" to "end of the period of establishment".

<u>SECTION 626</u> HIGHWAY SIGNING

<u>626.034 Concrete Foundations</u> Add to the following to the end of the second paragraph: "Precast and cast-in-place foundations shall be warranteed against leaning and corrosion for two years after the project is completed. If the lean is greater than 2 degrees from normal or the foundation is spalling within the first two years, the Contractor shall replace the foundation at no extra cost."

SECTION 627 PAVEMENT MARKINGS

<u>627.10 Basis of Payment</u> Add to the following to the end of the third paragraph: "If allowed by Special Provision, the Contractor may utilize Temporary Bi-Directional Yellow and White(As required) Delineators as temporary pavement marking lines and paid for at the contract lump sum price. Such payment will include as many applications as required and removal."

SECTION 637 DUST CONTROL

<u>637.06 Basis of Payment</u> Add the following after the second sentence of the third paragraph: "Failure by the Contractor to follow Standard Specification or Special Provision - Section 637 and/or the Contractor's own Soil Erosion and Pollution Control Plan concerning Dust Control and/or the Contractor's own Traffic Control Plan concerning Dust Control and/or visible evidence of excessive dust problems, as determined by the Resident, will result in a reduction in payment, computed by reducing the Lump Sum Total by 5% per occurrence per day. The Department's Resident or any other representative of the Department reserves the right to suspend the work at any time and request a meeting to discuss violations and remedies. The Department shall not be held responsible for any delay in the work due to any suspension under this item. Additional penalties may also be assessed in accordance with Special Provision 652 - Work Zone Traffic Control and Standard Specification 656 - Temporary Soil Erosion and Water Pollution Control."

SECTION 639 ENGINEERING FACILITIES

<u>639.04 Field Offices</u> Change the forth to last paragraph from: "The Contractor shall provide a fully functional desktop copier..." to "....desktop copier/scanner..."

Description Change "Floor Area" to "Floor Area (Outside Dimension)". Change Type B floor area from "15 (160)" to "14.4 (155)".

<u>SECTION 652</u> MAINTENANCE OF TRAFFIC

<u>652.2.3 Flashing Arrow Board</u> Delete the existing 5 paragraphs and replace with the following: Flashing Arrow Panels (FAP) must be of a type that has been submitted to AASHTO's National Transportation Product Evaluation Program (NTPEP) for evaluation and placed on the Maine Department of Transportations' Approved Products List of Portable Changeable Message Signs & Flashing Arrow Panels.

FAP units shall meet requirements of the current Manual on Uniform Traffic Control Devices (MUTCD) for Type "C" panels as described in Section 6F.56 - Temporary Traffic Control Devices. An FAP shall have matrix of a minimum of 15 low-glare, sealed beam, Par 46 elements capable of either flashing or sequential displays as well as the various operating modes as described in the MUTCD, Chapter 6-F. If an FAP consisting of a bulb matrix is used, each element should be recess-mounted or equipped with an upper hood of not less than 180 degrees. The color presented by the elements shall be yellow.

FAP elements shall be capable of at least a 50 percent dimming from full brilliance. Full brilliance should be used for daytime operation and the dimmed mode shall be used for nighttime operation. FAP shall be at least 2.4 M x 1.2 M [96" x 48"] and finished in non-reflective black. The FAP shall be interpretable for a distance not less than 1.6 km [1 mile].

Operating modes shall include, flashing arrow, sequential arrow, sequential chevron, flashing double arrow, and flashing caution. In the three arrow signals, the second light from the arrow point shall not operate.

The minimum element on-time shall be 50 percent for the flashing mode, with equal intervals of 25 percent for each sequential phase. The flashing rate shall be not less than 25 nor more than 40 flashes per minute. All on-board circuitry shall be solid state.

Primary power source shall be 12 volt solar with a battery back-up to provide continuous operation when failure of the primary power source occurs, up to 30 days with fully charged batteries. Batteries must be capable of being charged from an onboard 110 volt AC power source and the unit shall be equipped with a cable for this purpose.

Controller and battery compartments shall be enclosed in lockable, weather-tight boxes. The FAP shall be mounted on a pneumatic-tired trailer or other suitable support for hauling to various locations, as directed. The minimum mounting height of an arrow panel should be 2.1 M [7 feet] from the roadway to the bottom of the panel.

The face of the trailer shall be delineated on a permanent basis by affixing retro-reflective material, known as conspicuity material, in a continuous line as seen by oncoming drivers.

A portable changeable message sign may be used to simulate an arrow panel display."

652.2.4 Other Devices Delete the last paragraph and add the following:

"<u>652.2.5 Portable Changeable Message Sign</u> Trailer mounted Portable Changeable Message Signs (PCMS) must be of a type that has been submitted to AASHTO's National Transportation Product Evaluation Program (NTPEP) for evaluation and placed on the Maine

Department of Transportations' Approved Products List of Portable Changeable Message Signs & Flashing Arrow Panels. The PCMS unit shall meet or exceed the current specifications of the Manual on Uniform Traffic Control Devices (MUTCD), 6F.55.

The front face of the sign should be covered with a low-glare protective material. The color of the LED elements shall be amber on a black background. The PCMS should be visible from a distance of 0.8 km [0.5 mile] day and night and have a minimum 15° viewing angle. Characters must be legible from a distance of at least 200 M [650 feet].

The message panel should have adjustable display rates (minimum of 3 seconds per phase), so that the entire message can be read at least twice at the posted speed, the off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed. Each message shall consist of either one or two phases. A phase shall consist of up to eight characters per line. The unit must be capable of displaying at least three lines of text with eight characters per line. Each character shall be 457 mm [18"] high. Each character module shall use at least a five wide and seven high pixel matrix. The text of the messages shall not scroll or travel horizontally or vertically across the face of the sign.

Units shall automatically adjust their brightness under varying light conditions to maintain legibility.

The control system shall include a display screen upon which messages can be reviewed before being displayed on the message sign. The control system shall be capable of maintaining memory when power is unavailable. Message must be changeable with either a notebook computer or an on-board keypad. The controller shall have the capability to store a minimum of 200 user-defined and 200 pre-programmed messages. Controller and battery compartments shall be enclosed in lockable, weather-tight boxes.

PCMS units shall have the capability of being made programmable by means of wireless communications. PCMS units shall also be fully capable of having an on-board radar system installed if required for a particular application.

PCMS' primary power source shall be solar with a battery back-up to provide continuous operation when failure of the primary power source occurs. Batteries must be capable of being charged from a 110 volt AC power source. The unit must also be capable of being operated solely from a 110 volt AC power source and be equipped with a cable for this purpose.

The PCMS shall be mounted on a trailer in such a way that the bottom of the message sign panel shall be a minimum of 2.1 M [7 ft] above the roadway in urban areas and 1.5 M [5 ft] above the roadway in rural areas when it is in the operating mode. PCMS trailers should be of a heavy duty type with a 51 mm [2"] ball hitch and a minimum of four leveling jacks (at each corner). The sign shall be capable of being rotated 360° relative to the trailer. The face of the trailer shall be delineated on a permanent basis by affixing retro-reflective material, known as conspicuity material, in a continuous line as seen by oncoming drivers."

<u>652.3.3 Submittal of Traffic Control Plan</u> In item e. change "A list of all certified flaggers…" to "A list of all the Contractor's certified flaggers…"

In the last paragraph add the following as the second sentence: "The Department will review and provide comments to the Contractor within 14 days of receipt of the TCP."

<u>652.3.5 Installation of Traffic Control Devices</u> In the first paragraph, first sentence; change "Signs shall be erected..." to "Portable signs shall be erected..." In the third sentence; change "Signs must be erected so that the sign face..." to "Post-mounted signs must also be erected so that the sign face..."

<u>652.4 Flaggers</u> Replace the first paragraph with the following; "The Contractor shall furnish flaggers as required by the TCP or as otherwise specified by the Resident. All flaggers must have successfully completed a flagger test approved by the Department and administered by a Department-approved Flagger-Certifier who is employing that flagger. All flaggers must carry an official certification card with them while flagging that has been issued by their employer. Flaggers shall wear safety apparel meeting ANSI 107-1999 Class 2 risk exposure and clearly identify the wearer as a person, shall be visible at a minimum distance of 300 m [1000 ft], and shall wear a hardhat with retroreflectivity. For nighttime conditions, Class 3 apparel should be considered, retroreflective or flashing SLOW/STOP paddles shall be used, and except in emergency situations the flagger station shall be illuminated to assure visibility."

Second paragraph, first sentence; change "...have sufficient distance to stop before entering the workspace." to "...have sufficient distance to stop at the intended stopping point." Third sentence; change "At a spot obstruction..." to "At a spot obstruction with adequate sight distance,..."

Fourth paragraph, delete and replace with "Flaggers shall be provided as a minimum, a 10 minute break, every 2 hours and a 30 minute or longer lunch period away from the work station. Flaggers may only receive 1 unpaid break per day; all other breaks must be paid. Sufficient certified flaggers shall be available onsite to provide for continuous flagging operations during break periods. Breaker flaggers will not be paid for separately, but shall be considered incidental to the appropriate pay item."

<u>652.8.2 Other Items</u> Replace the last paragraph with the following: "There will be no payment made under any 652 pay items after the expiration of the adjusted total contract time."

SECTION 653 POLYSTYRENE PLASTIC INSULATION

<u>653.05 Placing Backfill</u> In the second sentence; change "...shall be not less than 150 mm [6 in] loose measure." to "...shall be not less than 250 mm [10 in] loose measure." In the third sentence; change "...crawler type bulldozer of not more than 390 kg/m² [80 lb/ft²] ground contact pressure..." to "...crawler type bulldozer of not more than 4875 kg/m² [2000 lb/ft²] ground contact pressure..."

<u>653.06 Compaction</u> In the last sentence; change "...not more than 390 kg/m² [80 lb/ft²] ground contact..." to "...not more than 4875 kg/m² [2000 lb/ft²] ground contact..."

SECTION 656

TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL

<u>656.5.1 If Pay Item 656.75 Provided</u> Replace the second paragraph with the following: "Failure by the Contractor to follow Standard Specification or Special Provision - Section 656 and/or the Contractor's own Soil Erosion and Pollution Control Plan will result in a reduction in payment, computed by reducing the Lump Sum Total by 5% per occurrence per day. The Department's Resident or any other representative of the Department reserves the right to suspend the work at any time and request a meeting to discuss violations and remedies. The Department shall not be held responsible for any delay in the work due to any suspension under this item."

SECTION 701 STRUCTURAL CONCRETE RELATED MATERIALS

<u>701.10 Fly Ash - Chemical Requirements</u> Change all references from "ASTM C311" to "ASTM C114".

SECTION 703 AGGREGATES

<u>703.05 Aggregate for Sand Leveling</u> Change the percent passing the 9.5 mm [3/8 in] sieve from "85 - 10" to "85 - 100"

<u>703.06</u> Aggregate for Base and Subbase Delete the first paragraph: "The material shall have..." and replace with "The material shall have a minimum degradation value of 15 as determined by Washington State DOT Test Method T113, Method of Test for Determination of Degradation Value (March 2002 version), except that the reported degradation value will be the result of testing a single specimen from that portion of a sample that passes the 12.5 mm [½ in] sieve and is retained on the 2.00 mm [No. 10] sieve, minus any reclaimed asphalt pavement used."

<u>703.07 Aggregates for HMA Pavements</u> Delete the forth paragraph: "The composite blend shall have..." and replace with "The composite blend, minus any reclaimed asphalt pavement used, shall have a Micro-Deval value of 18.0 or less as determined by AASHTO T 327. In the event the material exceeds the Micro Deval limit, a Washington Degradation test shall be performed. The material shall be acceptable if it has a value of 30 or more as determined by Washington State DOT Test Method T 113, Method of Test for Determination of Degradation Value (March 2002 version) except that the reported degradation value will be the result of testing a single composite specimen from that portion of the sample that passes the 12.5mm [1/2 inch] sieve and is retained on the 2.00mm [No 10] sieve, minus any reclaimed asphalt pavement used."

<u>703.09 HMA Mixture Composition</u> The coarse and fine aggregate shall meet the requirements of Section 703.07. The several aggregate fractions for mixtures shall be sized, graded, and combined in such proportions that the resulting composite blends will meet the grading requirements of the following table.

AGGREGATE GRADATION CONTROL POINTS				
Nominal Maximum Aggregate SizeControl Points (Percent Passing)				
TYPE 25	TYPE 19	TYPE 12.5	TYPE 9.5	TYPE 4.75
mm	mm	mm	mm	mm
PERC	ENT BY WEIG	HT PASSING - (COMBINED AC	GGREGATE
100				
90-100	100			
-90	90-100	100		
	-90	90-100	100	100
	-	-90	90-100	95-100
	-	-	-90	80-100
19-45	23-49	28-58	32-67	40 - 80
	-	-	-	-
	-	-	-	-
	-	-	-	-
1-7	2-8	2-10	2-10	2-10
	Nominal 1 TYPE 25 mm PERC 100 90-100 -90 19-45	Nominal Maximum Aggr TYPE 25 TYPE 19 mm mm PERCENT BY WEIG 100 90-100 100 -90 -90 - - 19-45 23-49 - - - - 19-45 -	Nominal Maximum Aggregate SizeCom TYPE 25 TYPE 19 TYPE 12.5 mm mm mm PERCENT BY WEIGHT PASSING - 0 0 0 100 100 0 90-100 100 0 -90 90-100 100 -90 90-100 - 19-45 23-49 28-58 - - - - - - - - - - - - 19-45 23-49 28-58 - - - - - -	Nominal Maximum Aggregate SizeControl Points (Percentry PE 25 TYPE 25 TYPE 19 TYPE 12.5 TYPE 9.5 mm mm mm mm PERCENT BY WEIGHT PASSING - COMBINED AC 100 0 0 90-100 100 - - 0 -90 90-100 100 - - - -90 90-100 100 -

Gradation Classification---- The combined aggregate gradation shall be classified as coarsegraded when it passes below the Primary Control Sieve (PCS) control point as defined in the following table. All other gradations shall be classified as fine-graded.

GRADATION CLASSIFICATION

PCS Control Point for Mixture Nominal Maximum Aggregate Size				
(% passing)				
Nominal Maximum Aggregate	TYPE 25	TYPE 19	TYPE 12.5	TYPE 9.5
Size	mm	mm	mm	mm
Primary Control Sieve	4.75 mm	4.75 mm	2.36 mm	2.36 mm
PCS Control Point (% passing)	40	47	39	47

If a Grading "D" mixture is allowed per Special Provision Section 403, it shall meet the following gradation and the aggregate requirements of Section 703.07.

Sieve	Percentage by Weight	
Designation	Passing Square Mesh Sieves	
¹ / ₂ inch	100	
$\frac{3}{8}$ inch	93-100	
No. 4	60-80	
No. 8	46-65	
No. 16	25-55	
No. 30	16-40	
No. 50	10-30	
No. 100	6-22	
No. 200	3.0-8.0	

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<u>703.18</u> Common Borrow Replace the first paragraph with the following: "Common borrow shall consist of earth, suitable for embankment construction. It shall be free from frozen material, perishable rubbish, peat, and other unsuitable material including material currently or previously contaminated by chemical, radiological, or biological agents unless the material is from a DOT project and authorized by DEP for use."

<u>703.22 Underdrain Backfill Material</u> Change the first paragraph from "…for Underdrain Type B..." to "…for Underdrain Type B and C…"

SECTION 706 NON-METALLIC PIPE

<u>706.06 Corrugated Polyethylene Pipe for Underdrain, Option I and Option III Culvert Pipe</u> Change the first sentence from "...300 mm diameters to 900 mm" to "...300 mm diameters to 1200 mm" Delete, in it's entirety, the last sentence which begins "This pipe and resins..." and replace with the following; "The manufacturing plants of polyethylene pipe shall be certified by the Eastern States Consortium. Polyethylene pipe shall be accepted based on third party certification by the AASHTO's National Transportation Product Evaluation Program."

SECTION 709 REINFORCING STEEL AND WELDED STEEL WIRE FABIC

<u>709.03 Steel Strand</u> Change the second paragraph from "...shall be 12mm [½ inch] AASHTO M203M/M203 (ASTM A416/A416M)..." to "...shall be 15.24 mm [0.600 inch] diameter AASHTO M203 (ASTM A416)..."

SECTION 710 FENCE AND GUARDRAIL

<u>710.03 Chain Link Fabric</u> Add the following sentence: "Chain Link fabric for PVC coated shall conform to the requirements of AASHTO M181, Type IV-Class B."

<u>710.04 Metal Beam Rail</u> Replace with the following: "Galvanized steel rail elements shall conform to the requirements of AASHTO M 180, Class A, Type II.

When corrosion resistant steel is specified, rail shall conform to AASHTO M 180, Class A, Type IV. Beams of corrosion resistant steel shall not be painted or galvanized. They shall be so handled and stored that the traffic face of these beams, used in a continuous run of guardrail, shall not show a distinctive color differential.

When metal beam rail is to be installed on a curve having a radius of curvature of 150 ft. or less, the beam sections shall be fabricated on an arc to the required radius and permanently stamped or embossed with the designated radius.

The engineer may take one piece of guardrail, a backup plate, and end or buffer section from each 200 pieces in a lot, or from each lot if less than 200 pieces are included therein for determination of compliance with specification requirements. If one piece fails to conform to the requirements of this specification, two other pieces shall be tested. If either of these pieces fails to conform to the requirements of this specification, the lot of material represented by these samples shall be rejected. A lot shall be considered that quantity of material offered for inspection at one time that bears the same heat and coating identification."

<u>710.07 Guardrail Posts</u> Section b. change "...AASHTO M183/M183M..." to "...AASHTO M 270M/M 270 Grade 250 (36)..."

SECTION 712 MISCELLANEOUS HIGHWAY MATERIALS

<u>712.06 Precast Concrete Units</u> In the first paragraph, change "...ASTM C478M..." to "...AASHTO M199..." Delete the second paragraph and replace with the following; "Approved structural fibers may be used as a replacement of 6 x 6 #10 gauge welded wire fabric when used at an approved dosage rate for the construction of manhole and catch basin units. The material used shall be one of the products listed on the Maine Department of Transportation's Approved Product List of Structural Fiber Reinforcement." Delete the fifth paragraph and replace with the following; "The concrete mix design shall be approved by the Department. Concrete shall contain 6% air content, plus or minus 1½% tolerance when tested according to AASHTO T152. All concrete shall develop a minimum compressive strength of 28 MPa [4000 psi] in 28 days when tested according to AASHTO T22. The absorption of a specimen, when tested according to AASHTO T280, Test Method "A", shall not exceed nine percent of the dry mass."

Add the following:

<u>"712.07 Tops, and Traps</u> These metal units shall conform to the plan dimensions and to the following specification requirements for the designated materials.

Gray iron or ductile iron castings shall conform to the requirements of AASHTO M306 unless otherwise designated."

<u>712.08 Corrugated Metal Units</u> The units shall conform to plan dimensions and the metal to AASHTO M36/M36M. Bituminous coating, when specified, shall conform to AASHTO M190 Type A.

<u>712.09 Catch Basin and Manhole Steps</u> Steps for catch basins and for manholes shall conform to ASTM C478M [ASTM C478], Section 13 for either of the following material:

(a) Aluminum steps-ASTM B221M, [ASTM B211] Alloy 6061-T6 or 6005-T5.

(b) Reinforced plastic steps Steel reinforcing bar with injection molded plastic coating copolymer polypropylene. Polypropylene shall conform to ASTM D 4101.

<u>712.23 Flashing Lights</u> Flashing Lights shall be power operated or battery operated as specified.

(a) Power operated flashing lights shall consist of housing, adapters, lamps, sockets, reflectors, lens, hoods and other necessary equipment designed to give clearly visible signal indications within an angle of at least 45 degrees and from 3 to 90 m [10 to 300 ft] under all light and atmospheric conditions.

Two circuit flasher controllers with a two-circuit filter capable of providing alternate flashing operations at the rate of not less than 50 nor more than 60 flashes per minute shall be provided.

The lamps shall be 650 lumens, 120 volt traffic signal lamps with sockets constructed to properly focus and hold the lamp firmly in position.

The housing shall have a rotatable sun visor not less than 175 mm [7 in] in length designed to shield the lens.

Reflectors shall be of such design that light from a properly focused lamp will reflect the light rays parallel. Reflectors shall have a maximum diameter at the point of contact with the lens of approximately 200 mm [8 in].

The lens shall consist of a round one-piece convex amber material which, when mounted, shall have a visible diameter of approximately 200 mm [8 in]. They shall distribute light and not diffuse it. The distribution of the light shall be asymmetrical in a downward direction. The light distribution of the lens shall not be uniform, but shall consist of a small high intensity portion with narrow distribution for long distance throw and a larger low intensity portion with wide distribution for short distance throw. Lenses shall be marked to indicate the top and bottom of the lens.

(b) Battery operated flashing lights shall be self- illuminated by an electric lamp behind the lens. These lights shall also be externally illuminated by reflex-reflective elements built into the lens to enable it to be seen by reflex-reflection of the light from the headlights of oncoming traffic. The batteries must be entirely enclosed in a case. A locking device must secure the case. The light shall have a flash rate of not less than 50 nor more than 60 flashes per minute from minus 30 °C [minus 20 °F] to plus 65 °C [plus 150 °F]. The light shall have an on time of not less than 10 percent of the flash cycle. The light beam projected upon a surface perpendicular to the axis of the light beam shall produce a lighted rectangular projection whose minimum horizontal dimension shall be 5 degrees each side of the horizontal axis. The effective intensity shall not have an initial value greater than 15.0 candelas or drop below 4.0 candelas during the first 336 hours of continuous flashing. The illuminated lens shall appear to be uniformly bright over its entire illuminated surface when viewed from any point within an angle of 9 degrees each side of the vertical axis and 5 degrees each side of the horizontal axis. The lens shall not be less than 175 mm [7 in] in diameter including a reflex-reflector ring of 13 mm [$\frac{1}{2}$ in] minimum width around the periphery. The lens shall be yellow in color and have a minimum relative luminous transmittance of 0.440 with a luminance of 2854° Kelvin. The lens shall be one-piece construction. The lens material shall be plastic and meet the luminous transmission requirements of this specification. The case containing the batteries and circuitry shall be constructed of a material capable of withstanding abuse equal to or greater than 1.21 mm thick steel [No. 18 U.S. Standard Gage Steel]. The housing and the lens frame, if of metal shall be properly cleaned, degreased and pretreated to promote adhesion. It shall be given one or more coats of enamel which, when dry shall completely obscure the metal. The enamel coating shall be of such quality that when the coated case is struck a light blow with a sharp tool, the paint will not chip or crack and if scratched with a knife will not powder. The case shall be so constructed and closed as to exclude moisture that would affect the proper operation of light. The case shall have a weep hole to allow the escape of moisture from condensation. Photoelectric controls, if provided, shall keep the light operating whenever the ambient light falls below 215 lx [20 foot candles]. Each light shall be plainly marked as to the manufacturer's name and model number.

If required by the Resident, certification as to conformance to these specifications shall be furnished based on results of tests made by an independent testing laboratory. All lights are subject to random inspection and testing. All necessary random samples shall be provided to the Resident upon request without cost to the Department. All such samples shall be returned to the Contractor upon completion of the tests.

<u>712.32 Copper Tubing</u> Copper tubing and fittings shall conform to the requirements of ASTM B88M Type A [ASTM B88, Type K] or better.

<u>712.33 Non-metallic Pipe, Flexible</u> Non-metallic pipe and pipe fittings shall be acceptable flexible pipe manufactured from virgin polyethylene polymer suitable for transmitting liquids intended for human or animal consumption.

<u>712.34 Non-metallic Pipe, Rigid</u> Non-metallic pipe shall be Schedule 40 polyvinylchloride (PVC) that meets the requirement of ASTM D1785. Fittings shall be of the same material.

<u>712.341 Metallic Pipe</u> Metallic pipe shall be ANSI, Standard B36.10, Schedule 40 steel pipe conforming to the requirements of ASTM A53 Types E or S, Grade B. End plates shall be steel conforming to ASTM A36/A36M.

Both the sleeve and end plates shall be hot dip galvanized. Pipe sleeve splices shall be welded splices with full penetration weld before galvanizing.

<u>712.35 Epoxy Resin</u> Epoxy resin for grouting or sealing shall consist of a mineral filled thixotropic, flexible epoxy resin having a pot life of approximately one hour at 10° C [50°F]. The grout shall be an approved product suitable for cementing steel dowels into the preformed holes of curb inlets and adjacent curbing. The sealant shall be an approved product, light gray in color and suitable for coating the surface.

<u>712.36 Bituminous Curb</u> The asphalt cement for bituminous curb shall be of the grade required for the wearing course, or shall be Viscosity Grade AC-20 meeting the current requirements of Subsection 702.01 Asphalt Cement. The aggregate shall conform to the requirements of Subsection 703.07. The coarse aggregate portion retained on the 2.36 mm [No. 8] sieve may be either crushed rock or crushed gravel.

The mineral constituents of the bituminous mixture shall be sized and graded and combined in a composite blend that will produce a stable durable curbing with an acceptable texture.

Bituminous material for curb shall meet the requirements of Section 403 - Hot Bituminous Pavement.

<u>712.37 Precast Concrete Slab</u> Portland cement concrete for precast slabs shall meet the requirements of Section 502 - Structural Concrete, Class A.

The slabs shall be precast to the dimension shown on the plans and cross section and in accordance with the Standard Detail plans for Concrete Sidewalk Slab. The surface shall be finished with a float finish in accordance with Subsection 502.14(c). Lift devices of sufficient strength to hold the slab while suspended from cables shall be cast into the top or back of the slab.

<u>712.38 Stone Slab</u> Stone slabs shall be of granite from an acceptable source, hard, durable, predominantly gray in color, free from seams which impair the structural integrity and be of smooth splitting character. Natural color variations characteristic of the deposit will be permitted. Exposed surfaces shall be free from drill holes or indications of drill holes. The granite slabs in any one section of backslope must be all the same finish.

The granite slabs shall be scabble dressed or sawed to an approximately true plane having no projections or depressions over 13 mm [$\frac{1}{2}$ in] under a 600 mm [2 ft] straightedge or over 25 mm [1 in] under a 1200 mm [4 ft] straightedge. The arris at the intersection of the top surface and exposed front face shall be pitched so that the arris line is uniform throughout the length of the installed slabs. The sides shall be square to the exposed face unless the slabs are to be set on a radius or other special condition which requires that the joints be cut to fit, but in any case shall be so finished that when the stones are placed side by side no space more than 20 mm [3/4 in] shall show in the joint for the full exposed height.

Liftpin holes in all sides will be allowed except on the exposed face.

SECTION 717 ROADSIDE IMPROVEMENT MATERIAL

717.03 C. Method #3 - Roadside Mixture #3 Change the seed proportions to the following:

Crown Vetch	25%
Perennial Lupine	25%
Red Clover	12.5%
Annual Rye	37.5%

<u>717.05 Mulch Binder</u> Change the third sentence to read as follows:

"Paper fiber mulch may be used as a binder at the rate of 2.3 kg/unit [5 lb/unit]."

SECTION 720 STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS

<u>720.08 U-Channel Posts</u> Change the first sentence from "..., U-Channel posts..." to "..., Rib Back U-Channel posts..."

SECTION 722 GEOTEXTILES

<u>722.01 Stabilization/Reinforcement Geotextile</u> Add the following to note #3; "The strengths specified in the columns labeled" <50%" and " $\geq 50\%$ " refer to the elongation at which the geotextile material was tested. For example; if a fabric is tested at 15% elongation then it must meet or exceed the minimum strength shown in the "<50%" column. Submittals must include the percent elongation at which the material was tested."

<u>722.02 Drainage Geotextile</u> Add the following to note #3; "The strengths specified in the columns labeled"<50%" and " \geq 50%" refer to the elongation at which the geotextile material was tested. For example; if a fabric is tested at 15% elongation then it must meet or exceed the minimum strength shown in the "<50%" column. Submittals must include the percent elongation at which the material was tested."

<u>722.01 Erosion Control Geotextile</u> Add the following note to Elongation in the Mechanical Property Table; "The strengths specified in the columns labeled"<50%" and " \geq 50%" refer to the elongation at which the geotextile material was tested. For example; if a fabric is tested at 15% elongation then it must meet or exceed the minimum strength shown in the "<50%" column. Submittals must include the percent elongation at which the material was tested."

APPENDIX A TO DIVISION 100

SECTION 1 - BIDDING PROVISIONS

A. <u>Federally Required Certifications</u> By signing and delivering a Bid, the Bidder certifies as provided in all certifications set forth in this Appendix A - Federal Contract Provisions Supplement including:

- Certification Regarding No Kickbacks to Procure Contract as provided on this page 1 below.
- Certification Regarding Non-collusion as provided on page 1 below.
- Certification Regarding Non-segregated Facilities as provided by FHWA Form 1273, section III set forth on page 21 below.
- "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion" as provided by FHWA Form 1273, section XI set forth on page 32 below.
- "Certification Regarding Use of Contract Funds for Lobbying" as provided by FHWA Form 1273, section XII set forth on page 35 below.

Unless otherwise provided below, the term "Bidder", for the purposes of these certifications, includes the Bidder, its principals, and the person(s) signing the Bid. Upon execution of the Contract, the Bidder (then called the Contractor) will again make all the certifications indicated in this paragraph above. Upon execution of the Contract, the Bidder (then called the Contractor) will again make all the certifications indicated in this paragraph above.

<u>CERTIFICATION REGARDING NO KICKBACKS TO PROCURE CONTRACT</u> Except expressly stated by the Bidder on sheets submitted with the Bid (if any), the Bidder hereby certifies, to the best of its knowledge and belief, that it has not:

(A) employed or retained for a commission, percentage, brokerage, contingent fee, or other consideration, any firm or person (other then a bona fide employee working solely for me) to solicit or secure this contract;

(B) agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any firm or person in connection with carrying out the contract, or;

C) paid, or agreed to pay, to any firm, organization, or person (other than a bona fide employee working solely for me) any fee, contribution, donation, or consideration of any kind for, or in connection with, procuring or carrying out the contract;

By signing and submitting a Bid, the Bidder acknowledges that this certification is to be furnished to the Maine Department of Transportation and the Federal Highway Administration, U.S. Department of Transportation in connection with this contract in anticipation of federal aid highway funds and is subject to applicable state and federal laws, both criminal and civil.

<u>CERTIFICATION REGARDING NONCOLLUSION</u> Under penalty of perjury as provided by federal law (28 U.S.C. §1746), the Bidder hereby certifies, to the best of its knowledge and belief, that:

the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with the Contract.

For a related provisions, see Section 102.7.2 (C) of the Standard Specifications - "Effects of Signing and Delivery of Bids" - "Certifications", Section 3 of this Appendix A entitled "Other Federal Requirements" including section XI - "Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion" and section XII. - "Certification Regarding Use of Contract Funds for Lobbying."

B. <u>Bid Rigging Hotline</u> To report bid rigging activities call: **1-800-424-9071**

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

SECTION 2 - FEDERAL EEO AND CIVIL RIGHTS REQUIREMENTS

Unless expressly otherwise provided in the Bid Documents, the provisions contained in this Section 2 of this "Federal Contract Provisions Supplement" are hereby incorporated into the Bid Documents and Contract.

A. <u>Nondiscrimination & Civil Rights - Title VI</u> The Contractor and its subcontractors shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Department deems appropriate. The Contractor and subcontractors shall comply with Title VI of the Civil Rights Act of 1964, as amended, and with all State of Maine and other Federal Civil Rights laws.

For related provisions, see Subsection B - "Nondiscrimination and Affirmative Action - Executive Order 11246" of this Section 2 and Section 3 - Other Federal Requirements of this "Federal Contract Provisions Supplement" including section II - "Nondiscrimination" of the "Required Contract Provisions, Federal Aid Construction Contracts", FHWA-1273.

B. <u>Nondiscrimination and Affirmative Action - Executive Order 11246</u> Pursuant to Executive Order 11246, which was issued by President Johnson in 1965 and amended in 1967 and 1978, this Contract provides as follows.

The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its efforts to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

- 1. Ensure and maintain a working environment free of harassment, intimidations, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all forepersons, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
- 2. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its union have employment opportunities available, and to maintain a record of the organization's responses.
- 3. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
- 4. Provide immediate written notification to the Department's Civil Rights Office when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Design-Builder's efforts to meet its obligations.
- 5. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under B above.
- 6. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligation; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- 7. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review

- 8. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractor's and Subcontractors with whom the Contractor does or anticipates doing business.
- 9. Direct its recruitment efforts, both orally and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later that one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above describing the openings, screenings, procedures, and test to be used in the selection process.
- 10. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth, both on the site and in other areas of a Contractor's workforce.
- 11. Validate all tests and other selection requirements.
- 12. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- 13. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- 14. Ensure that all facilities and company activities are non segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- 15. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractor's and suppliers, including circulation of solicitations to minority and female Contractor associations and other business associations.
- 16. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

C. Goals for Employment of Women and Minorities Per Executive Order 11246, craft tradesperson goals are 6.9% women and .5% minorities employed. However, goals may be adjusted upward at the mutual agreement of the Contractor and the Department. Calculation of these percentages shall not include On-the-Job Training Program trainees, and shall not include clerical or field clerk position employees.

For a more complete presentation of requirements for such Goals, see the federally required document "Goals for Employment of Females and Minorities" set forth in the next 6 pages below.

Start of GOALS FOR EMPLOYMENT OF FEMALES AND MINORITIES Federally Required Contract Document

§60-4.2 Solicitations

(d) The following notice shall be included in, and shall be part of, all solicitations for offers and bids on all Federal and federally assisted construction contracts or subcontracts in excess of \$10,000 to be performed in geographical areas designated by the Director pursuant to 60-4.6 of this part (see 41 CFR 60-4.2(a)):

Notice of Requirement for Affirmative Action to Ensure Equal Opportunity (Executive Order 11246)

1. The Offeror's or bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

Goals for female participation in each trade	6.9%
Goals for minority participation for each trade	
Maine	
001 Bangor, ME	0.8%
Non-SMSA Counties (Aroostook, Hancock, Penobscot, Pisca	taquis, Waldo, Washington)
002 Portland-Lewiston, ME SMSA Counties: 4243 Lewiston-Auburn, ME (Androscoggin)	0.5%
6403 Portland, ME (Cumberland, Sagadahoc)	0.6%
Non-SMSA Counties: (Franklin, Kennebec, Knox, Lincoln, Oxford, Somerset, York	0.5% x)

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non federally involved construction.

The contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be in violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor, estimated dollar amount of the subcontract; estimated started and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

4. As used in this Notice, and in the Contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed giving the state, county and city, if any).

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)

- 1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department form 941;
 - d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);

- (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
- (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
- (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of the North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- 2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
- 3. If the contractor, is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractor's for Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
- 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7 a. through p. of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical areas where the work is being performed. Goals are published periodically in the Federal Register in notice form and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specific.
- 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant, thereto.
- 6. In order for the non working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the

apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

- 7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as expensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, when possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organization's responses.
 - c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment sources or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources complied under 7b above.
 - f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific

review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment, efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing prior to the date for the acceptance of applications for apprenticeship or the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on site and in other areas of a Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- 1. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are non segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of

solicitation to minority and female contractor associations and other business associations.

- p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- 8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7 a through p.). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7 a through p. of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program and reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions take on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
- 9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both make and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, specific minority group of women is underutilized.)
- 10. The Contractor shall not use the goals and timetables or affirmative action even through the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if standards to discriminate against any person because of race, color, religion, sex, or national origin.
- 11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
- 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementation regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the

requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.6.

- 14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g. mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and location sat which the work was performed. Records be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- 15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

End of GOALS FOR EMPLOYMENT OF FEMALES AND MINORITIES Federally Required Contract Document

D. <u>Disadvantaged Business Enterprise (DBE) Requirements</u> The Department has established an annual Disadvantaged Business Enterprise goal to be achieved through race neutral means. This goal will adjusted periodically and will be provided by Supplemental Provision. The Contractor shall comply with all provisions of this section regarding DBE participation and the Department's latest version of the Disadvantaged Business Enterprise Program Manual, said Manual being incorporated herein by reference. In the case of conflict between this Contract and said Manual, this Contract shall control. The Department reserves the right to adjust DBE goals on a project-by-project basis by addendum.

<u>Policy.</u> It is the Department's policy that DBEs as defined in 23 CFR Part 26 and referenced in the Transportation Equity Act for 21st Century of 1998, as amended from the Surface Transportation Uniform Relocation Assistance Act of 1987, and the Intermeddle Surface Transportation Efficiency Act of 1991. The intent hereto remains to provide the maximum opportunity for DBEs to participate in the performance of contracts financed in whole or in part with federal funds.

The Department and its Contractors shall not discriminate on the basis of race, color, national origin, ancestry, sex, age, or disability in the award and performance of DOT assisted contracts.

Disadvantaged Business Enterprises are those so certified by the Maine Department of Transportation Civil Rights Office prior to bid opening date.

The Department has determined that elements of a good faith effort to meet the contract goal include but are not limited to the following:

- 1. Whether the Contractor advertised in general circulation, trade association, and minority/women's-focus media concerning the subcontracting opportunities;
- 2. Whether the Contractor provided written notice to a reasonable number of specific DBEs that their interest in the contract is being solicited;
- 3. Whether the Contractor followed up on initial solicitations of interest by contacting DBEs to determine with certainty whether the DBEs were interested;
- 4. Whether the Contractor selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goals;
- 5. Whether the Contractor provided interested DBEs with adequate information about the plans, specification and requirements of the contract;
- 6. Whether the Contractor negotiated in good faith with interested DBEs, not rejecting the DBE as unqualified without sound reasons based on a thorough investigation of their capabilities;
- 7. Whether the Contractor made efforts to assist interested DBEs with other appropriate technical/financial assistance required by the Department or Contractor;
- 8. Whether the Contractor effectively used the services of available minority/women's community organizations, minority/women's business assistance offices; and other organizations that provide assistance in the recruitment and placement of DBEs.

<u>Substitutions of DBEs.</u> The following may be acceptable reasons for Civil Rights Office approval of such a change order:

- The DBE defaults, voluntarily removes itself or is over-extended;
- The Department deletes portions of the work to by performed by the DBE.

It is not intended that the ability to negotiate a more advantageous contract with another certified DBE be considered a valid basis for such a change in DBE utilization once the DBE Bid Submission review has been passed. Any requests to alter the DBE commitment must be in writing and included with the change order.

Failure to carry out terms of this Standard Specification shall be treated as a violation of this contract and will result in contract sanctions which may include withholding of partial payments totaling the creditable dollars amount which would have been paid for said DBE participation, termination of this contract or other measures which may affect the ability of the Contractor to obtain Department contracts.

Copies of the Maine Department of Transportation's DBE Program may be obtained from: Maine Department of Transportation Civil Rights Office #16 State House Station Augusta, Maine 04333-0016 tel. (207) 624-3519 <u>Quarterly Reporting Requirement</u>. The Contractor must submit Semi-annual reports of actual dollars paid to Disadvantaged Business Enterprises (DBE's) on this Project to the MDOT Civil Rights Office by the end of the third week of April and October for the period covering the preceding six months considered Federal Fiscal Year periods. The reports will be submitted directly to the Civil Rights Office on the form provided in the latest version of the DBE Program Manual. Failure to submit the report by the deadline may result in a withholding of approval of partial payment estimates by the Department.

SECTION 3 - OTHER FEDERAL REQUIREMENTS

Unless expressly otherwise provided in the Bid Documents, the provisions contained in this Section 3 of this "Federal Contract Provisions Supplement" are hereby incorporated into the Bid Documents and Contract.

A. <u>Buy America</u>

If the cost of products purchased for permanent use in this project which are manufactured of steel, iron or the application of any coating to products of these materials exceeds 0.1 percent of the contract amount, or \$2,500.00, whichever is greater, the products shall have been manufactured and the coating applied in the United States. The coating materials are not subject to this clause, only the application of the coating. In computing that amount, only the cost of the product and coating application cost will be included.

Ore, for the manufacture of steel or iron, may be from outside the United States; however, all other manufacturing processes of steel or iron must be in the United States to qualify as having been manufactured in the United States.

United States includes the 50 United States and any place subject to the jurisdiction thereof.

Products of steel include, but are not limited to, such products as structural steel, piles, guardrail, steel culverts, reinforcing steel, structural plate and steel supports for signs, luminaries and signals.

Products of iron include, but are not limited to, such products as cast iron grates.

Application of coatings include, but are not limited to, such applications as epoxy, galvanized and paint.

To assure compliance with this section, the Contractor shall submit a certification letter on its letterhead to the Department stating the following:

"This is to certify that products made of steel, iron or the application of any coating to products of these materials whose costs are in excess of \$2,500.00 or 0.1 percent of the original contract amount, whichever is greater, were manufactured and the coating, if one was required, was applied in the United States."

B. Materials

a. <u>Convict Produced Materials</u> References: 23 U.S.C. 114(b)(2), 23 CFR 635.417

Applicability: FHWA's prohibition against the use of convict material only applies to Federal-aid highways. Materials produced after July 1, 1991, by convict labor may only be incorporated in a Federal-aid highway construction project if: 1) such materials have been produced by convicts who are on parole, supervised release, or probation from a prison; or 2) such material has been produced in a qualified prison facility, e.g., prison industry, with the amount produced during any 12-month period, for use in Federal-aid projects, not exceeding the amount produced, for such use, during the 12-month period ending July 1, 1987.

Materials obtained from prison facilities (e.g., prison industries) are subject to the same requirements for Federal-aid participation that are imposed upon materials acquired from other sources. Materials manufactured or produced by convict labor will be given no preferential treatment.

The preferred method of obtaining materials for a project is through normal contracting procedures which require the contractor to furnish all materials to be incorporated in the work. The contractor selects the source, public or private, from which the materials are to be obtained (23 CFR 635.407). Prison industries are prohibited from bidding on projects directly (23 CFR 635.112e), but may act as material supplier to construction contractors.

Prison materials may also be approved as State-furnished material. However, since public agencies may not bid in competition with private firms, direct acquisition of materials from a prison industry for use as State-furnished material is subject to a public interest finding with the Division Administrator's concurrence (23 CFR 635.407d). Selection of materials produced by convict labor as State-furnished materials for mandatory use should be cleared prior to the submittal of the Plans Specifications & Estimates (PS&E).

b. <u>Patented/Proprietary Products</u> References: 23 U.S.C. 112, 23 CFR 635.411

FHWA will not participate, directly or indirectly, in payment for any premium or royalty on any patented or proprietary material, specification, or process specifically set forth in the plans and specifications for a project, unless:

- the item is purchased or obtained through competitive bidding with equally suitable unpatented items,
- the STA certifies either that the proprietary or patented item is essential for synchronization with the existing highway facilities or that no equally suitable alternative exists, or
- the item is used for research or for a special type of construction on relatively short sections of road for experimental purposes. States should follow FHWA's procedures for "Construction Projects Incorporating Experimental Features" (<u>experiment.htm</u>) for the submittal of work plans and evaluations.

The primary purpose of the policy is to have competition in selection of materials and allow for development of new materials and products. The policy further permits materials and products that are judged equal may be bid under generic specifications. If only patented or proprietary products are acceptable, they shall be bid as alternatives with all, or at least a Trade names are generally the key to identifying patented or proprietary materials. Trade name examples include 3M, Corten, etc. Generally, products identified by their brand or trade name are not to be specified without an "or equal" phrase, and, if trade names are used, all, or at least a reasonable number of acceptable "equal" materials or products should be listed. The licensing of several suppliers to produce a product does not change the fact that it is a single product and should not be specified to the exclusion of other equally suitable products.

c. State Preference References: 23 U.S.C. 112, 23 CFR 635.409

Materials produced within Maine shall not be favored to the exclusion of comparable materials produced outside of Maine. State preference clauses give particular advantage to the designated source and thus restrict competition. Therefore, State preference provisions shall not be used on any Federal-aid construction projects.

This policy also applies to State preference actions against materials of foreign origin, except as otherwise permitted by Federal law. Thus, States cannot give preference to in-State material sources over foreign material sources. Under the Buy America provisions, the States are permitted to expand the Buy America restrictions provided that the STA is legally authorized under State law to impose more stringent requirements.

d. <u>State Owned/Furnished/Designated Materials</u> References: 23 U.S.C. 112, 23 CFR 635.407

Current FHWA policy requires that the contractor must furnish all materials to be incorporated in the work, and the contractor shall be permitted to select the sources from which the materials are to be obtained. Exceptions to this requirement may be made when there is a definite finding, by MDOT and concurred in by Federal Highway Administration's (FHWA) Division Administrator, that it is in the public interest to require the contractor to use materials furnished by the MDOT or from sources designated by MDOT. The exception policy can best be understood by separating State-furnished materials into the categories of manufactured materials and local natural materials.

<u>Manufactured Materials</u> When the use of State-furnished manufactured materials is approved based on a public interest finding, such use must be made mandatory. The optional use of State-furnished manufactured materials is in violation of our policy prohibiting public agencies from competing with private firms. Manufactured materials to be furnished by MDOT must be acquired through competitive bidding, unless there is a public interest finding for another method, and concurred in by FHWA's Division Administrator.

<u>Local Natural Materials</u> When MDOT owns or controls a local natural materials source such as a borrow pit or a stockpile of salvaged pavement material, etc., the materials may be designated for either optional or mandatory use; however, mandatory use will require a public interest finding (PIF) and FHWA's Division Administrator's concurrence. In order to permit prospective bidders to properly prepare their bids, the location, cost, and any conditions to be met for obtaining materials that are made available to the contractor shall be stated in the bidding documents.

<u>Mandatory Disposal Sites</u> Normally, the disposal site for surplus excavated materials is to be of the contractor's choosing; although, an optional site(s) may be shown in the contract provisions. A mandatory site shall be specified when there is a finding by MDOT, with the concurrence of the Division Administrator, that such placement is the most economical or that the environment would be substantially enhanced without excessive cost. Discussion of the mandatory use of a disposal site in the environmental document may serve as the basis for the public interest finding.

Summarizing FHWA policy for the mandatory use of borrow or disposal sites:

- mandatory use of either requires a public interest finding and FHWA's Division Administrator's concurrence,
- mandatory use of either may be based on environmental consideration where the environment will be substantially enhanced without excessive additional cost, and
- where the use is based on environmental considerations, the discussion in the environmental document may be used as the basis for the public interest finding.

Factors to justify a public interest finding should include such items as cost effectiveness, system integrity, and local shortages of material.

C. Standard FHWA Contract Provisions - FHWA 1273

Unless expressly otherwise provided in the Bid Documents, the following "Required Contract Provisions, Federal Aid Construction Contracts", FHWA-1273, are hereby incorporated into the Bid Documents and Contract.

Start of FHWA 1273 REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS(As revised through March 10, 1994)

I. <u>GENERAL</u>

- 1. These contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.
- 2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

- 3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.
- 4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

Section I, paragraph 2; Section IV, paragraphs 1, 2, 3, 4, and 7; Section V, paragraphs 1 and 2a through 2g.

- 5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.
- 6. Selection of Labor: During the performance of this contract, the contractor shall not:
 - a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or
 - b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. <u>NONDISCRIMINATION</u> (Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b. The contractor will accept as his operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment,

- 2. EEO Officer. The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.
- 3. Dissemination of Policy. All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:
 - a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.
 - b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.
 - c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.
 - d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.
 - e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.
- 4. Recruitment. When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.
 - a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

- b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)
- c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.
- 5. Personnel Actions. Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:
 - a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
 - b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.
 - c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.
 - d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.
- 6. Training and Promotion.
 - a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.
 - b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision

for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

- c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.
- d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.
- 7. Unions. If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:
 - a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.
 - b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.
 - c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the SHA and shall set forth what efforts have been made to obtain such information.
 - d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.
- 8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment. The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

- a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.
- b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.
- c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.
- 9. Records and Reports. The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.
 - a. The records kept by the contractor shall document the following:
 - (1) The number of minority and non-minority group members and women employed in each work classification on the project;
 - (2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;
 - (3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and
 - (4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.
 - b. All such records must be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the MDOT and the Federal Highway Administration.

The Contractor will submit to the MDOT a report for the month of July, indicating the total hours worked by minority, women and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form PR-1391. If on-the-job training is being required by "Training Special Provision," the Contractor will be required to furnish Form FHWA-1409. The report is required for week ending July 15 and can be obtained from MDOT, is due by week ending August 20th. This report is to be furnished directly to MDOT - Civil Rights Office.

III. <u>NONSEGREGATED FACILITIES</u> (Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

- a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.
- b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).
- c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

IV. <u>PAYMENT OF PREDETERMINED MINIMUM WAGE</u> (Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

- 1. General:
 - a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the

provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

- b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.
- c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.
- 2. Classification:
 - a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.
 - b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:
 - (1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;
 - (2) the additional classification is utilized in the area by the construction industry;
 - (3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and
 - (4) with respect to helpers, when such a classification prevails in the area in which the work is performed.
 - c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

- d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary
- e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.
- 3. Payment of Fringe Benefits:
 - a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.
 - b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- 4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:
 - a. Apprentices:
 - (1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.
 - (2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not be greater than the ratio permitted to the contractor

as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

- (3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.
- (4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.
- b. Trainees:
 - (1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.
 - (2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

- (3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.
- (4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- c. Helpers. Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under a approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.
- 5. Apprentices and Trainees (Programs of the U.S. DOT). Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.
- 6. Withholding. The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.
- 7. Overtime Requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4

and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

- 8. Violation. Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.
- 9. Withholding for Unpaid Wages and Liquidated Damages. The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. <u>STATEMENTS AND PAYROLLS</u> (Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

- 1. Compliance with Copeland Regulations (29 CFR 3). The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.
- 2. Payrolls and Payroll Records:
 - a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.
 - b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in

Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

- c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices, trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.
- d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
 - (1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;
 - (2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;
 - (3) that each laborer or mechanic has been paid not less that the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.
- e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.
- f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

- 1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:
 - a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.
 - b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.
 - c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.
- 2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

- 1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635).
 - a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor,

with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.

- b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.
- 2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.
- 3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.
- 4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

- 1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.
- 2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).
- 3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health

standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. <u>FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS</u> In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more that \$10,000 or imprisoned not more than 5 years or both."

X. <u>IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION</u> <u>CONTROL ACT</u> (Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

 That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 <u>et seq</u>., as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 <u>et seq</u>., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

- 2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.
- 3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.
- 4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. <u>CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND</u> <u>VOLUNTARY EXCLUSION</u>

- 1. Instructions for Certification Primary Covered Transactions: (Applicable to all Federal-aid contracts - 49 CFR 29)
 - a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
 - b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.
 - c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
 - d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
 - e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out

in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

- f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
- g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
- h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.
- i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or

local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and
- d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- 2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. <u>Instructions for Certification - Lower Tier Covered Transactions</u>: (Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

- a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.
- b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.
- d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
- e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
- f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

- g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
- h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions:

- 1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

XII. <u>CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING</u> (Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 - 49 CFR 20)

- 1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:
 - a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
 - b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a

December 14, 2005 Supersedes September 1, 2005 Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

- 2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.
- 3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

End of FHWA 1273

SPECIAL PROVISION

WATER UTILITY GENERAL REQUIREMENTS

1 – DESCRIPTION

This section includes the General Requirements for completing the water utility installation portion of this contract. It includes general specifications for the water utility work.

A "General Project Description" is included later in this section.

The term Engineer used in the Water Utility related specifications refers to Dirigo Engineering, 2 Dirigo Drive, Fairfield, ME 04937, (207) 453-2401.

2 - SUBMITTALS

A.) <u>General</u> - Submit to the Engineer six (6) copies of shop drawings, project data and samples for all products, materials and equipment proposed for the completed project. A 14-day review period will be required for all submittals. Review of submittals is for general compliance with the contract documents. The Engineer, Utility District or its Representative assumes no responsibility for the correctness of dimensions or details on submittals.

Review of submittals by the Engineer shall not relieve the Contractor from responsibility for any variation from the requirements of the contract documents unless the Contractor has in writing called the Engineer's attention to each such variation at the time of submission and the Engineer has given written approval of each such variation by a specific written notation thereof. The Engineer's review of submittals shall not relieve the Contractor from responsibility for errors or omissions in the shop drawings.

B.) <u>Shop Drawings, Project Data and Samples</u> - All submittals shall bear a note and signature indicating that they were reviewed by the Contractor and found to be in conformance with the contract documents.

Any material or equipment submitted for review, which is arranged differently or is a different physical size from that shown or specified shall be accompanied by shop drawings indicating the different arrangements of size and the method of making the various connections to the equipment. The final result will be compatible with the system or structure as designed.

C.) <u>Schedules</u> - Submit a time schedule, showing complete sequence of construction by activity, prior to commencement of work. Update the schedule monthly showing changes occurring since previous submission.

Distribute copies of reviewed schedules to subcontractors and other concerned parties. Instruct recipients to report any inability to comply and provide detailed explanation with suggested remedies.

General Requirements Page 1 of 7

3 - QUALITY CONTROL

A.) <u>Construction Materials</u> - It is the Contractor's sole responsibility to provide and use only new materials, new products and new equipment that meet the requirements of the plans and specifications and will result in a completed project that is durable and of high quality in all respects. The Engineer may request samples of any material that the Contractor proposes to use. Such samples shall be of sufficient size and quantity to allow appropriate testing of the sample. The Utility District shall bear all cost of obtaining and providing such sample. The Utility District shall bear all cost of testing the sample. However, if testing shows that a sample does not meet the requirements of the plans and specifications, the Contractor shall reimburse the Utility District for all costs incurred by the Utility District as a result of testing the sample.

The Contractor shall provide equipment and parts from a single manufacturer to the greatest extent possible. This is to facilitate ease of service, maintenance and parts replacement. Engineer reserves the right to reject proposed equipment from various manufacturers if suitable materials are available from fewer manufacturers, and to require that source of materials be unified to the maximum extent possible.

- B.) <u>Construction Review</u> The Utility District or Engineer or his representative will provide whatever Construction Review that he feels is necessary. Such Construction Review in no way reduces the Contractor's responsibility for supervision or quality control. The Contractor shall cooperate fully in the Utility District's and Engineer's Construction Review efforts. The Contractor shall keep the Engineer informed of work in progress as well as the schedule of work to be done. The Contractor shall allow complete access to the project by the Utility District, Engineer, and any representatives of any regulatory or funding agencies. The Engineer will not be responsible for the construction means, controls, techniques, sequences, procedures, or construction safety.
- C.) <u>Testing</u> The Contractor shall perform all testing specified in the contract documents unless the test is specifically noted to be done by the Utility District or Engineer. The Contractor shall notify the Engineer at least 48 hours in advance of any proposed testing, and obtain approval for the proposed testing time. Testing times must be coordinated with the Engineer.

4 - MATERIAL DELIVERY, STORAGE AND HANDLING

In addition to the requirements of the Standard Specifications for material delivery, storage and handling, the following shall apply. Materials shall be new and delivered and stored according to manufacturers' recommendations. Original labels shall be maintained so that they are legible at least until they are installed. Materials shall be transported and stored in such a manner that they do not cause or receive damage.

<u>5 – EXISTING UTILITIES</u>

A.) <u>Definitions</u> - "utilities" - is defined in this sub-section as physical property such as pipes, cables or structures used for water, sewer, storm drain, electrical, telephone, communications, cable TV, etc. This also includes signs, sign posts, light posts, fences, etc. This does not include individual house sewer services or water services.

"Association" - is defined in this sub-section as public or private organizations which own, maintain or service "utilities."

B.) <u>General</u> - The Contractor is required by law to contact Dig Safe and local water/sewer "Associations" at least 3 business days prior to beginning any excavation work. The Dig Safe telephone number is 1-888-DIG-SAFE.

The Engineer has made a careful attempt to locate all existing "utilities" that are in the area of the project. These are shown on the Contract Drawings. Interferences that are shown on the Contract Drawings shall be corrected at the Contractor's expense.

C.) <u>Water Mains, Sewer Mains and Underground Cables</u> - Prior to starting work on any portion of the project the Contractor shall give sufficient notice to all applicable "Associations" so that they may mark the location of their "utilities." The Contractor shall also inspect the area to verify the location of "utilities" shown on the plans and to check for any oversights or discrepancies. If "utilities" are located which are not shown on the plans, the Contractor shall notify the Engineer so that adjustments can be made if necessary to eliminate any conflict with the new work.

The Contractor shall follow responsible excavation practices at all times. When approaching a buried "utility," manual excavation shall be used to locate them. It is the Contractor's responsibility to provide undisturbed maintenance for all structures that may be affected by the excavation. This includes structures both above and below grade.

If "utilities" are interrupted, the Contractor shall immediately notify the "Association." The "Association" shall inspect the damage and make suitable repairs or instruct the Contractor to make suitable repairs. If a "utility" is shown on the drawings, located by an "Association" or could have been located by the Contractor by a simple inspection of the site, then the cost of any needed repairs, including materials and labor shall be borne by the Contractor. If a "utility" not shown on the plans, not located by an "Association" or not able to be located by the Contractor by a simple site inspection is accidentally damaged, the cost of repairs shall be borne by the "Association" or the Owner.

In all cases, satisfactory backfilling and maintenance of the trench is the Contractor's responsibility. The Engineer and the "Association" shall inspect all repairs by the Contractor to broken or damaged "utilities." Approval of the repairs must be obtained by the Contractor prior to covering the work. The Contractor shall remain responsible for the integrity of broken "utilities" even after the work has been backfilled. The Owner has complete authority to stop work if the Contractor is doing excessive damage to "utilities," appropriate repairs are not being made, or other precautions are not being taken to minimize damage to existing "utilities."

The Contractor shall not make any claims against the Owner for delays in the progress of his work that are less than one day in duration and are caused by an interference not shown on the Contract Drawings. A delay shall exist when the work cannot progress because of an interference and no other work on the project is available for the men and machinery at that time. If the delay lasts more than one day, the Contractor may be compensated, based on hourly payroll and equipment rental rate, by the Owner for the actual costs for each day after the initial day. Compensation will not be based on the amount of work that might have been accomplished.

D.) <u>Overhead Utilities, Utility Poles, Signs and Sign Posts</u> - The Contractor shall follow responsible excavation practices at all times. When approaching an overhead "utility", caution shall be used to avoid damage. It is the Contractor's responsibility to provide undisturbed maintenance for all structures that may be affected by the excavation. This includes structures both above and below grade. In instances where excavations are made in close proximity to utility poles or other structures, it shall be the Contractor's responsibility to notify the "Associations" and to provide support for the poles while the excavation is being done. Any costs associated with this shall be borne by the Contractor.

Do not remove structures without receiving approval of party having jurisdiction. Reinstall structures to satisfaction of party having jurisdiction.

E.) <u>Individual Services</u> - No effort has been made by the Engineer to show existing individual "utility" services. The Contractor shall assume that each structure along the route of the work has at least one set of "utility" services. The Contractor shall make no claims against the Owner for services not shown on the Contract Drawings.

The Contractor shall be responsible for locating all existing services prior to excavating. All equipment needed to locate services, including detectors and locators, shall be provided by the Contractor. The Contractor shall take every reasonable precaution to protect and preserve the integrity of these services.

The Contractor shall have the "Association" provide assistance in locating the individual services. However, the Contractor shall still have complete responsibility for their location. Assistance provided by the Owner, Engineer or "Association" shall not relieve the Contractor of his responsibility for their location. Exploratory excavations done to attempt to locate individual services shall be done at the Contractor's expense. This includes locating existing service lines that are to be connected to new service lines.

If services are interrupted, the Contractor shall immediately notify the "Association" and make suitable repairs to the service.

The Engineer and "Association" shall inspect all repairs to broken or damaged services, and approval of the repairs must be obtained by the Contractor from the Engineer prior to covering the work. The Contractor shall remain responsible for the integrity of broken services even after the work has been backfilled. The Owner has complete authority to stop work if the Contractor is doing excessive damage to the services and appropriate repairs are not being made or other precautions taken to minimize damage to existing services.

6 - REPAIRS TO EXISTING FACILITIES

- A.) <u>General</u> The Contractor will be responsible for interruption of service, or other damage to existing water and sewer utilities as stated in the Standard Specifications.
- B.) <u>Maintenance of Service to Customers</u> The Contractor shall be responsible for maintaining utility service to customers at all times. The Contractor shall utilize construction and excavation procedures that minimize disruption of service to utility customers. Obtain approval of Engineer regarding proposed methods and schedule for installing connections.
- C.) <u>Installation</u> The methods and equipment to complete repairs must be approved by the Utility District and Engineer. In general, the following methods of connecting and repairing pipes shall apply:

Gravity Sewer and Storm Drain Mains & Sewer/Storm Drain Services:

Straight and transition couplings for mains shall be non-shear sewer couplings Style CNSS as manufactured by Cascade Waterworks Mfg. Co., Style LSS2 or LSS3 as manufactured by Romac Industries, Inc., or approved equal. Repairs to SDR 35 pipe shall utilize PVC double bell repair couplings.

Water Mains and Sewer Force Mains:

Cast couplings, MJ solid sleeves; fittings made specifically for the pipe materials used.

Water Services:

Brass compression couplings; cast couplings; fittings made specifically for the pipe materials used. Connections to PE tubing shall utilize SS inserts and brass compression couplings.

7 - DISCONTINUED FACILITIES

- A.) <u>Mains</u> Discontinued water mains may be left in place. All discontinued mains that have been cut or broken shall have an approved cap or plug installed on them to prevent migration of water and soil through abandoned lines. Grouting of abandoned lines is not an acceptable alternative to caps or plugs.
- B.) <u>Hydrants and Branch Valves</u> Discontinued hydrants and branch valves shall be removed and delivered to the Utility District. Excavate, cut and cap branch main. Do not pull hydrants or valves out of ground without cutting main.
- C.) <u>Valves, Boxes and Curb Boxes</u> Valve boxes and curb boxes shall be removed from discontinued valves and curb stops. Removed facilities shall be delivered to the Utility District. Coordinate with Utility District regarding position to leave abandoned valves in. In general, valves shall be closed.
- D.) <u>Flowable Fill</u> Flowable fill (controlled low strength material) shall be a cementitious mixture with low strength, flowable characteristics. The late age strength of the flowable fill shall be in the range of 50 to 150 psi. The flowable fill shall have early setting and strength additives to allow for traffic and construction loads. The flowable fill shall be delivered in ready mixed concrete trucks and placed by chute in a flowable condition into the abandoned pipe or structure.

8 - AS-BUILT RECORDS

- A.) <u>General</u> Maintain accurate as-built records throughout the construction project. A complete bound copy of these as-built records shall be delivered to the Engineer before final payment is made.
- B.) <u>As-Built Drawings</u> The Contractor shall maintain a set of the construction drawings on the site at all times for the purpose of recording the actual configuration of the final work. The drawings shall show in a neat and legible fashion the final configuration of the constructed project, existing utilities, ledge, etc. A complete list of suppliers for each material item used on the project shall also be kept. This information shall be submitted to the Utility District at the conclusion of the work.

- C.) <u>Manufacturer's Literature</u> The Contractor shall submit copies of manufacturers' literature to the Engineer for inclusion in the project Operations and Maintenance Manual. The literature shall include installation instructions, warranty certificates, operating instructions, maintenance instructions, maintenance schedules and other relevant data.
- D.) <u>Utility Locations</u> The Contractor shall maintain a neat and accurate bound utility location book on the site at all times for the purpose of recording utility locations. The book shall include detailed information on the location and arrangement of all valves, tees, bends, fittings, service corporations, curb stops, couplings, repairs, etc. The type of pipe and depth shall also be noted.

9 – GENERAL PROJECT DESCRIPTION

<u>Route 15 Water Main</u>: The water main work to be completed under the MDOT Route 15 Reconstruction Project is generally described as follows:

<u>Option 1</u> – A new 300 mm (12") ductile iron water main will be installed starting at approximately station 1+000 (near tennis courts) and ending near station 2+220 (at the intersection of Route 15 and North Street). Connections to side streets and new water services to the right-of-way are included in this work.

<u>Option 2</u> – A new 300 mm (12") ductile iron water main will be installed starting at approximately station 1+750 (near Winter Street) and ending near station 2+220 (at the intersection of Route 15 and North Street). Connections to side streets and new water services to the right-of-way are included in this work.

<u>10 – ROCK EXCAVATION</u>

Rock excavation (if required) shall be paid under pay item <u>827.301 per Special Provision</u> <u>827</u>.

11 - BASIS OF PAYMENT

The work specified in this section (General Requirements) is incidental to the overall water utility portion of the project. No payment will be made under this section.

SPECIAL PROVISION Section 822

DUCTILE IRON PIPE AND APPURTENANCES

<u>GENERAL</u>

Furnish all labor, materials and equipment necessary to install and test all ductile iron mains and fittings, as specified in the contract documents. The minimum depth of cover specified in the contract documents refers to cover relative to the pipe location and finish grade not relative to the profile drawing.

MATERIALS

- A.) <u>Pipe</u> Pipe shall be ductile iron, double cement lined, tar coated, 5.5 to 6.1 meter lengths. Pipe shall be in full conformance with AWWA C151 and AWWA C111 and AWWA C104. All pipe shall be push on unless indicated otherwise in the contract documents. Push-on pipe shall be bell-tite joint Class 52. Mechanical joint pipe shall be mechanical joint Class 52. Utilize field-loc restraining gaskets where specified on the drawings.
- B.) <u>Fittings</u> Mechanical joint compact fittings shall be ductile iron Class 350, tar coated and shall include gaskets and corten bolts. Fittings shall be in accordance with AWWA C-153, AWWA C111 for joints and AWWA C104 for cement lining.

All fittings for buried service shall be mechanical joint. Fittings shall be manufactured by Tyler, U.S. Pipe, Griffin, Union or approved equal.

C.) <u>Mechanical Joint Restraint</u> - All mechanical joint fittings and connections shall utilize mechanical joint restraints. The restraining devices shall be of ductile iron construction and shall utilize standard MJ gaskets. Mechanical joint restrainers shall be Megalug (EBAA Iron Sales), One-Lok (Sigma), Uniflange Series 1400, or approved equal. Conventional retainer glands with set screws are <u>not</u> acceptable.

The mechanical joint restrainers shall be installed according to AWWA standards and the manufacturer's latest recommendations.

- D.) <u>Foster Adapter (or approved equal)</u> When shown on the drawings, mechanical joint valves and fittings shall be connected using a bolt-through positive restraining device manufactured of ductile iron conforming to ASTM A 80-55-06. Device shall be Foster Adapter (Infact Corporation), or approved equal, and shall be furnished with required accessories.
- E.) <u>Solid Sleeves</u> Solid sleeves shall be ductile iron Class 350 mechanical joint fittings per Section C above. Solid sleeves shall be "long" type (300mm minimum length). Mechanical joint restrainers shall be utilized per above subsection. Solid sleeves shall be utilized on ductile iron pipes.

Section 822-1 of 3

F.) <u>Cast Couplings</u> – Cast couplings shall have ductile iron sleeves and follower flanges per ASTM A-536. Sleeve ends shall have a smooth inside taper for uniform gasket sealing. Follower flanges shall be designed for a high strength/weight ratio. Bolts shall be high strength low alloy steel bolts per ASTM A-325 with heavy, semi-finished hexagon nuts per ASTM A-t63 and AWWA C111. When specified on the drawings, nuts and bolts shall be 316 Stainless Steel. Gaskets shall be virgin SBR compounded for water service. Gaskets shall meet ASTM D2000 3 BA715.

Sleeves and follower flanges shall be painted with shopcoat enamel. When specified on the drawings, epoxy coated sleeves and flanges shall be provided.

Cast coupling center sleeves lengths shall be as shown in the following table.

Pipe \emptyset (mm)	100	150 to 200	300
Minimum Center Sleeve Length (mm)	125	175	250

Acceptable manufacturers of cast couplings shall be Viking Johnson (Maxifit), Smith-Blair, Rockwell, Dresser, Romac or approved equal.

Cast Couplings shall be utilized on AC/transite pipe.

INSTALLATION OF BURIED DUCTILE IRON PIPE

Installation shall follow the general AWWA standard for installation of ductile iron water mains - AWWA C600. The only exception is that backfill material for buried pipes shall have no stones larger than 150 mm in diameter. Installation shall also follow the manufacturer's latest recommendations.

All earth and trench ledge excavations shall be extended to at least 150 mm below the bottom of the pipe and then brought to grade with screened base gravel (50 mm max. stone). The screened gravel is considered incidental to the pipe. The pipe shall be placed on this compacted bed and bedded with compacted screened base gravel (50mm max. stone) to 150 mm above the pipe. Backfill to grade shall be per MDOT Standard Specifications Section 206.

Foreign material shall be prevented from entering the pipe at all times (including during storage, installation and while in the trench). No debris, tools, clothing, trench water, or other materials shall be placed in the pipe at any time. Immediately following installation of a pipe in the trench (prior to backfilling and moving of trench box) a secure cap or plug shall be installed in the bell end of the pipe. The cap or plug shall be steel or plastic and shall be gasketed and designed to prevent debris and water from entering the pipe during excavation work.

TESTING

Ductile Iron Pipe shall be tested per Section 832.

SEPARATIONS AND CROSSINGS OF WATER MAINS AND SEWERS

Water mains shall be laid at least 3.1 meters horizontally from any existing or proposed sanitary sewer, force main, storm sewer or sewer manhole, per State of Maine Department of Human Services Regulations. The distance shall be measured edge of pipe to edge of pipe.

Water mains crossing sewers (including force mains or storm drains) shall be laid to provide a minimum vertical distance of 450mm of free earth between the water main and the sewer. This shall be the case where the water main is either above or below the sewer. At crossings, one full length of water pipe shall be located so both joints will be as far from the sewer as possible. Special structural support for the water and sewer pipes may be required.

METHOD OF MEASUREMENT

<u>Ductile Iron Pipe</u> - The pipe shall be measured by the installed length to the nearest onehalf (1/2) meter continuous through fittings. This shall be the method of measurement for buried ductile iron pipe.

BASIS OF PAYMENT

A.) <u>Class 52 Ductile Iron Pipe</u> - The accepted and measured quantities of ductile iron pipe will be paid at the contract unit price per meter for the types and sizes specified, complete in place. This includes all labor materials and equipment required to install the mains as described in the contract documents. For buried pipe this includes: excavations to locate existing pipe, excavating and maintaining the trench, shoring, dewatering, bedding material and placement, filling abandoned facilities with flowable fill or gravel, including fill material, pipe, gaskets, field-loc gaskets (where specified), fittings (including tees and bends), bolts, mechanical joint restrainers, couplings, thrust blocks, flushing, backfilling, compaction, surface restoration (where applicable), disinfecting and testing. Payment of the unit price for Class 52 Ductile Iron Pipe shall be full compensation for the incidental work items needed for a complete water main installation including: capping of existing mains, removal of hydrants, valves, valve and curb boxes, cutting and capping pipes and thrust blocks.

Payment shall be at the unit price in the bid schedule. Partial payments shall be according to the following schedule:

Installation, Backfill & Surface RestorationBid Price less \$10.00/linear meterSuccessful Testing and Disinfection\$10.00/linear meter

Payment shall be made under:

Pay Item		Pay Unit
822.33	150 mm Class 52 Ductile Iron Pipe	Linear meter
822.34	200 mm Class 52 Ductile Iron Pipe	Linear meter
822.36	300 mm Class 52 Ductile Iron Pipe	Linear meter

SPECIAL PROVISION Section 823

GATE VALVES WITH BOXES

GENERAL

Furnish and install all gate valves with boxes and appurtenances as specified in the contract documents.

MATERIAL

A.) <u>Gate Valves for Buried Service</u> - Gate valves shall be Resilient Seat Type, mechanical joint, Non Rising Stem. The valve design and construction shall comply with AWWA C509. The body and bonnet shall be ductile or cast iron and shall conform in thickness to those listed for gray iron in the applicable AWWA gate valve standards. The valve stem root diameter shall exceed AWWA C500 and the valve shall have a bronze thrust collar bushing. Valves shall have heat fusion bonded epoxy coating inside and out. Acceptable manufacturers and models are:

> Clow R/W AFC Model 2500 Mueller Resilient Wedge Model 2360 Approved Equal

Gate valves shall open RIGHT per DFWD standard.

- B.) <u>Valve Boxes</u> Valve boxes shall be cast iron, two piece, sliding type with a top flange and a minimum inside shaft diameter of 133 mm. Boxes shall have the word "Water" clearly cast into the cover. <u>Valve box bases shall be belled and valve box tops shall be flanged</u>. The top shall be approved posi-cap type and shall fit tight against the bell of the base section of the valve box. Valve box covers shall be CI construction drop type. Valve boxes of the appropriate length shall be provided for all buried service valves and are considered incidental to the valve bid item.
- C.) <u>Tapping Sleeves and Gate Valves</u> When shown on the plans tapping sleeves and gate valves (TS&V) shall be furnished and installed. Tapping sleeves shall be of ductile iron construction or stainless steel construction with ductile iron flange. Tapping valves shall be designed for connection to a tapping sleeve on one end and shall be MJ on the other end. Valves shall be as specified above. Prior to ordering the tapping sleeve and valve, the Contractor shall verify by test pit the size of the water main to be tapped. Test pit to determine size of main is incidental to this item.

Tapping sleeve and valve shall be installed while the main remains fully charged, avoiding the need to interrupt service to the water system. The tapping machine shall be properly disinfected prior to being used. The pipe coupon shall be retracted by the tapping machine.

Tapping sleeve and valves shall only be installed by experienced and approved specialty contractors with experience in this type of work.

D.) Insertion Valves – When shown on the plans insertion valves and tapping sleeves shall be installed. The insertion valve and tapping sleeve shall be Quikvalve Insertion Valve as manufactured by Transmate (a division of Romac Industries Inc. in Seattle, Washington) or approved equal. The sleeve shall be designed to accommodate the equipment and fixtures necessary to drill and ream the pipe and install the insertion valve without any interruption in water service. The insertion valve shall provide a full-unobstructed full-flow waterway after installation.

<u>Insertion Valve Tapping Sleeve</u> - The tapping sleeve shall be fabricated to assure a 360-degree seal around the pipe under working pressures up to 150 psi (test pressure: 225 psi). The sleeve shall be made of ASTM A-36 steel, and shall be lined and coated with fusion-bonded epoxy (10-12 mils) meeting the requirements of AWWA C-213. Heavy gauge type 304 stainless steel armor plates shall be used to bridge the gap between the sleeve halves.

The tapping sleeve shall utilize a special flange that mates with the installation equipment and insertion valve. Lugs on the sleeve shall be configured to provide a bolting surface and assure a 360-degree seal. The lugs shall be designed to prevent excessive stress on the pipe and minimize distortion of soft (PVC) pipe. Bolts and nuts shall be Type 304 stainless steel.

Gaskets shall be made of Styrene Butadiene Rubber (SBR) compounded for potable water service in accordance with ASTM D2000 3 BA715. The gaskets shall provide a positive 360-degree seal on the pipe and assure a tight, durable and resilient seal at the pipe sleeve – valve insert junction.

<u>Insertion Valve Assembly</u> - The insert shall consist of a ductile iron casting coated with SBR rubber compounded for water service with a durometer of 55 Shore A. The insert shall seal on the inside diameter of the insertion valve sleeve neck and the lower half of the water main.

The valve stem and nut assembly shall be in accordance with AWWA C-500-80, section 3.12. A special flange, made of ASTM A-36 steel, shall be used to hold the valve assembly together and act to seal against the valve sleeve flange. The valve flange gasket shall be made of SBR rubber, compounded for water service in accordance with ASTM D2000 3 BA715, with a durometer of 70 Shore A. The gasket shall act as the sealing interface between the valve flange and the sleeve flange. Bolts, nuts, and washers shall be Type 304 stainless steel.

INSTALLATION

Installation shall follow the general AWWA standard for installation of pipe and fittings - AWWA C600. The only exception is that backfill material for buried valves shall have no stones larger than 50 mm in diameter. Installation shall also follow the manufacturer's latest recommendations. Care shall be taken to insure that the valve box base is supported by compacted select backfill rather than the valve body. Valve boxes shall be centered over the operating nut and installed plumb. Install a Posi-Cap device on valve prior to installing valve box.

The insertion valve and sleeve shall be installed in accordance with manufacturer's recommendations. The valve shall be installed in the open position, under water pressure without any interruption of water service.

METHOD OF MEASUREMENT

Gate Valves with boxes shall be measured by the number of units of each size, complete and accepted in place.

BASIS OF PAYMENT

This item includes all labor, materials and equipment required to furnish and install gate valves with boxes as described in the contract documents. This includes: valves, gaskets, bolts, mechanical joint restrainers, valve boxes, posi-caps, and installation. Removal of the valve box (when delineated on the plans) shall be incidental to the appropriate valve pay item.

Payment shall be made under:

Pay Item		<u>Pay Unit</u>
823.31	300 mm Gate Valve with Box	each
823.325	200 mm Gate Valve with Box	each
823.331	150 mm Gate Valve with Box	each
823.3211	250 mm Insertion Valve	each
823.3222	250 mm x 250 mm Tapping Sleeve & Valve	each

SPECIAL PROVISION Section 824

FIRE HYDRANTS

GENERAL

Furnish and install the fire hydrants as specified in the contract documents.

MATERIAL

Hydrants shall be Mueller Centurion Model A-423, Eddy Model F2641, Waterous Pacer WB-67, or approved equal. Hydrants shall meet the following requirements and shall **open Right**:

- 1. 133mm (5.25") minimum valve opening
- 2. Minimum 2.1m bury
- 3. Drain holes permanently plugged

Confirm the following information from the Owner prior to ordering hydrants:

- 1. Size of operating nuts
- 2. Threads for hose & steamer nozzles to Dover & Foxcroft Water District threads
- 3. Direction of opening

The depth of bury of each hydrant shall be as shown on the drawings. The correct depth of bury for each hydrant shall be obtained without the use of extension kits.

BRANCH MAIN

Branch main shall be 150 mm ductile iron per Special Provision Section 822. Joints or fittings shall not be allowed between hydrant gate valve and hydrant boot without Engineer's approval. All fittings and joints (if allowed) shall utilize mechanical joint restrainers.

HYDRANT BRANCH MAIN GATE VALVE

Hydrant branch main gate valves shall be installed directly on the hydrant anchoring tee per Special Provision Section 823.

INSTALLATION

Obtain approval of final hydrant locations from Utility District prior to installation. Hydrant shall be installed plumb with pumper connection facing access to hydrant. Hydrant breakaway connection shall be installed no more than 150 mm or less than 100 mm above finish grade. Hydrant assemblies shall utilize hydrant-anchoring tees. Centerline of hydrant to branch valve centerline shall be 900 mm minimum. Valve box shall be 75 mm maximum under shoulder or unpaved area, or flush with pavement. Thrust blocks shall be installed behind hydrant as shown on the drawings. Paint exposed hydrant to conform to Owner's color standard.

Section 824-1 of 2

TESTING

Hydrant branch mains and hydrants shall be tested per Special Provision Section 832 to the hydrant boot.

METHOD OF MEASUREMENT

Fire Hydrants will be measured by the number of units complete and accepted in place.

BASIS OF PAYMENT

This item includes all labor, materials and equipment required to furnish and install fire hydrants as described in the contract documents. This includes: site preparation, excavation, shoring, dewatering, bedding material, hydrant, fittings, tee at main, 150mm branch main, 150mm branch valve with box, gaskets, bolts, mechanical joint restrainers, couplings, thrust blocks, installation, delineator post with reflector, painting, flushing, testing, backfilling, surface restoration (where applicable), and compaction. Payment is for a complete hydrant assembly as shown on the contract drawings.

Payment shall be made under:

Pay Item		Pay Unit
824.30	Hydrant Assemblies	each

SPECIAL PROVISION Section 825

WATER SERVICES & CTS WATER PIPE

GENERAL

Furnish and install water services and polyethylene tubing as specified in the contract documents. Each home or business along the route of the water main replacement shall receive a new water service including corporation, service line and curb stop with box. Water services shall be as specified in this Section and shown on the details on the drawings. All 19 mm (3/4") services shall be copper.

MATERIAL

All service brass shall conform to AWWA C-800. The pack joint end connection shall consist of a Buna-N beveled gasket for watertight fit and an independent, slip-clamp locking device which is grooved on the inside for additional restraint.

A.) <u>Copper Tubing</u> -- Copper tubing shall be Type K as manufactured by Revere or Bridgeport Brass or approved equal. Tubing shall conform to ASTM B-88 and AWWA C-800. Tubing shall be of the diameters shown on the drawings. Individual house services shall be 19 mm in diameter.

B.) <u>Polyethylene Tubing (CTS Water Pipe)</u>

Polyethylene tubing shall be copper tube size polyethylene pipe. Pipe size shall be as designated on the drawings. Tubing shall have a working pressure rating of 200 psi. Tubing shall conform to AWWA C-901, ASTM D-1248 and ASTM D-2737.

Insert stiffeners shall be stainless steel and shall be used at all compression connections. Couplings shall be brass and shall conform to AWWA C-800. The pack joint end connection shall consist of a Buna-N beveled gasket for watertight fit and an independent, slip-clamp locking device which is grooved on the inside for additional restraint. Couplings shall be manufactured by Ford, McDonald, Mueller, or approved equal.

C.) <u>Corporations</u> -- Corporations shall be ball valve type. Corporations inlets shall have AWWA taper and outlets shall have a compression pack joint. Corporations for individual house services shall be 19 mm. Corporations shall be manufactured by Ford Meter Box Company, Inc., or approved equal. Corporation taps to PVC mains of all sizes or ductile iron mains 150 mm and smaller shall utilize a service saddle. All corporations larger than 25 mm shall utilize a service saddle.

- D.) <u>Curb Stops</u> -- All curb stops shall be ball valves as manufactured by Ford Meter Box Company, Inc., or approved equal. Curb stops shall have copper packed joints on inlets and outlets. Curb stops shall not have drains. Curb stops for individual house services shall be 19 mm.
- E.) <u>Curb Boxes</u> -- Curb boxes shall be cast iron extension type with arch pattern base. Curb box lids shall come complete with pentagon brass plug and shall be marked "Water." A 12.7 mm stainless steel service box rod shall be included.
- F.) <u>Service Saddles</u> -- Service saddles shall have ductile iron (65-45-12) body and double strap type. Straps shall be 304 (18-8) SS with Teflon coated threads. Saddle body shall have 10-mil fusion applied, nylon coating. Saddles for PVC piping shall be pre-formed at the factory to the exact pipe size to avoid overstressing the pipe during installation.

INSTALLATION

A.) <u>Water Services:</u> Following successful testing and acceptance of the new water mains connect the new services to the existing water services on the customer side of the curbstop. Installation shall follow the general AWWA standards and manufacturers latest recommendations. Curb stops and boxes for individual services shall be installed at the right-of-way limit. Curb boxes shall be installed plumb with the box lid installed flush with the finish grade. Curb stops and boxes shall be supported so that they do not put pressure on the service line. Copper tubing shall be bedded with 200 mm of clean sand bedding (from 100 mm below to 100 mm above the pipe).

Water service pipes and curb stops shall be installed with the same amount of cover as specified for the associated water main (2.1 m unless noted otherwise on the plans). Connections to existing service pipes that have less cover than required shall be done with copper tubing and couplings on the private side of the curb stop.

Flush the service line prior to connecting to existing services. Pressurize the service line and inspect for leaks prior to backfilling.

B.) <u>CTS Water Pipe:</u> Installation shall follow the general AWWA Standards and manufacturer's latest recommendations. Polyethylene tubing shall be installed with 200 mm of clean sand bedding (with 75 mm minimum of sand below the tubing). Polyethylene tubing shall be installed with the same amount of cover as specified for the associated water main (2.1 m unless noted otherwise).

Tubing shall be installed with single lengths of tubing when possible to keep the number of joints to a minimum. All joints and connections shall be made with brass (copper pipe packed joint) fittings and insert stiffeners shall be used at all connections.

METHOD OF MEASUREMENT

- A.) <u>Copper Water Services</u> The pipe shall be measured by the installed length to the nearest one-half (1/2) meter from the corporation stop at the water main to the installed curb stop.
- B.) <u>Polyethylene Tubing (CTS):</u> The pipe shall be measured by the installed length to the nearest one-half (1/2) meter from the corporation stop at the new water main to the connection with existing water mains.
- C.) <u>Corporations</u> Corporations will be measured by the number of units installed, complete and accepted in place.
- D.) <u>Curb Stops</u> Curbs stops will be measured by the number of units installed, complete and accepted in place.

BASIS OF PAYMENT

- A.) <u>Copper Service Pipe</u> The accepted and measured quantities copper pipe for water services will be paid at the contract unit price per meter for the sizes specified, complete in place. This includes: site work, site preparation, pavement cutting, excavation, shoring, dewatering, bedding material, pipe, fittings, installation, flushing, backfilling, surface restoration (where applicable), and compaction.
- B.) <u>Polyethylene Tubing (CTS)</u> The accepted and measured quantities of polyethylene tubing will be paid at the contract unit price per meter for the sizes specified, complete in place. This includes: site work, site preparation, pavement cutting, excavation, shoring, dewatering, bedding material, pipe, fittings, installation, flushing, backfilling, surface restoration (where applicable), and compaction.
- C.) <u>Corporations</u> The accepted and measured quantities of corporations for water services will be paid at the contract unit price per corporation for the sizes specified, complete in place. This includes all labor, materials and equipment required to furnish and install corporations for water services as described in the contract documents. This includes: tapping the main, installation of the corporation and connection to the copper tubing.
- D.) <u>Curb Stops</u> The accepted and measured quantities of curb stops for water services will be paid at the contract unit price per curb stop for the sizes specified, complete in place. This includes all labor, materials and equipment required to furnish and install curb stops and boxes for water services as described in the contract documents. This includes connecting the copper tubing to the curb stop installing the curb stop and box, and connecting to the existing service as required, including adaptors, stainless steel inserts, or other fittings that are necessitated by the make-up of the existing service.

Section 825-3 of 4

Payment will be made under:

Pay Item		<u>Pay Unit</u>
825.311	19 mm Corporation	each
825.312	19 mm Curb Stop	each
825.41	19 mm Copper Service	linear meter
825.32	50 mm Corporation	each
825.322	50 mm Curb Stop	each
825.42	50 mm CTS Water Pipe	linear meter

SPECIAL PROVISION Section 827

STRUCTURAL ROCK EXCAVATION FOR WATER UTILITY LINES

<u>GENERAL</u>

Furnish all labor, equipment and materials necessary to provide all ledge excavation (also called structural rock excavation) for water utility trenches, construction, and utility installation. All excavation related to water utility work shall be classified as either earth excavation or ledge excavation.

Earth excavation shall consist of removal of all grades of soil and rock sufficiently friable to be worked with an excavator. This shall include any material less than two cubic meters in volume. Earth Excavation is covered under the Standard MDOT Specifications.

Ledge excavation shall consist of blasting, removal, and replacement of all material not classified as <u>earth and greater than two cubic meters in volume</u>. Ledge Excavation (for water utility work) is covered in this specification.

CONSTRUCTION METHODS

The Contractor shall use responsible and safe construction and excavation practices. The Contractor shall verify the condition of the site and neighboring properties and structures prior to beginning work. The Contractor shall use construction methods and equipment of the appropriate size so as to not produce damage, excessive noise, or vibrations on neighboring properties.

The Contractor shall remove all overburden from any ledge encountered and shall not remove any ledge until the Engineer has measured its volume. At the Engineer's option, the Contractor may be allowed to predrill trench ledge (i.e. drill through overburden) for measurement and blasting. Ledge that has been previously fractured and broken shall not be classified as ledge excavation.

All blasting shall comply with all federal, state, and local regulations. <u>The blasting contractor shall</u> have a pre-blast survey completed of all structures within 300 feet of the work area prior to beginning work. Vibration monitoring shall be done by the blasting contractor during all blasting. Warning signs shall be posted whenever blasting occurs. No blasting shall be permitted without blasting mats or sufficient soil overburden.

All ledge shall be classified as unsuitable material for backfill. All ledge shall be replaced with borrow (per this specification) and the cost of this replacement material shall be considered incidental to the ledge removal cost.

BORROW AND BEDDING MATERIAL TO REPLACE BLASTED LEDGE

All blasted ledge shall be removed and replaced with bedding or borrow material. Blasted ledge that is within the pipe bedding zone shall be replaced with the appropriate bedding material as specified elsewhere. Bedding material is incidental to the utility pipeline pay items, when applicable. Otherwise, it is incidental to the ledge excavation. Blasted ledge that is outside the pipe bedding zone shall be replaced with common borrow per the appropriate MDOT Specification. This common borrow (including supply, installation and compaction) is incidental to the ledge excavation.

METHOD OF MEASUREMENT

Ledge excavation and measurement shall be per cubic meter, to the nearest whole cubic meter, within the limits of payment. Measurements shall be taken prior to any blasting. Ledge not measured or verified by the Engineer will not be authorized for payment. Measurements for ledge in trenches shall be made at 5-meter intervals along the centerline of the pipe. The ledge will be measured using the average end area method utilizing the elevations, the payment depth (0.15m below pipe invert), the payment width and the measurement interval.

The ledge payment width shall be 1 meter.

BASIS OF PAYMENT

This item includes all labor, materials and equipment required to excavate ledge as described in the contract documents. This includes: preblast survey, vibration monitoring, signing, drilling, blasting, excavation, disposal of blasted ledge, and replacement material (including material, backfill and compaction). Replacement material for blasted ledge is considered incidental to the unit price for ledge.

Payment shall be made under:

Pay Item		<u>Pay Unit</u>
827.301	Structural Rock Excavation for Water Utility Lines	cubic meter

SPECIAL PROVISION Section 827

TRENCH INSULATION

GENERAL

Furnish all labor, materials, equipment and appurtenances necessary to install the trench insulation as specified in the Contract Documents Trench insulation refers to insulation board installed between mains and storm drains or over mains where cover is insufficient or where it is otherwise specified.

MATERIALS

Trench insulation shall be extruded polystyrene plastic foam insulation board equal to STYROFOAM brand as manufactured by the Dow Chemical Company and as meeting ASTM C-578 Type IV. Insulation shall be Dow STYROFOAM T&G, or Owens Corning Foamular 250 T&G, or equal. Insulation shall be 50mm thick and have a minimum compression strength of 25 psi (ASTM D-1621).

INSTALLATION

The insulation shall be a minimum of 0.6m wide and shall extend a minimum of 150mm beyond the outside edge of the pipe. The insulation thickness shall be 50mm unless otherwise specified on the drawings or required by the Engineer. In general it shall be used where the top of the pipe is less than 1.5m below finish grade.

The insulation shall be installed on top of a smooth, flat surface of compacted select backfill or bedding. The insulation shall be 150mm above the top of the pipe. Joints shall be butted tightly for maximum protection. Backfilling over the insulation shall be done by hand for the first 200mm and compacted before remaining backfill is applied.

Installation for each type of insulation shall be according to the manufacturers' recommendations. In general, backfill shall be clean, dry, and be free of any material which can dissolve or harm the plastic such as petroleum products.

BASIS OF PAYMENT

This item includes all labor, materials and equipment required to furnish and install trench insulation as described in the contract documents. This includes insulation and installation. Measurement of each linear meter installed shall be based on a thickness of 50mm and width of 0.6m.

Payment shall be made under:

Pay Item

827.33 Trench Insulation

DFWD Route 15 Water Main Section 827-1 of 1

Dirigo Engineering December 15, 2008

linear meter

Pay Unit

SPECIAL PROVISION Section 832

WATER MAIN TESTING

GENERAL

Furnish all labor, materials and equipment required to test all water mains as specified in the contract documents. All mains shall be tested prior to acceptance. All flushing and testing shall be done in the presence of the Engineer. The Contractor shall notify the Engineer at least 48 hours in advance of any testing.

The testing methods described in this section are specific for water-pressure testing. These procedures should not be applied for air-pressure testing because of the serious safety hazards involved. Air-pressure testing is <u>not</u> allowed.

Operation of gate valves in the existing water system shall only be done by authorized staff of the Water District.

PROCEDURE

After the pipe has been laid and completely backfilled, the Contractor shall perform the water main test. The test shall be in accordance with AWWA C600 except as herein specified. The test shall have a duration of 2 hours. The test pressure at all points in the pipe shall be at least 1.5 times the maximum working pressure in the pipe. The minimum test pressure at any point in the pipe shall be 150 psi. Test pressure shall not vary by more than 5 +/- psi for the duration of the test.

Each valved section of pipe shall be slowly filled with water and all air shall be expelled from the pipe. If permanent air vents are not located at all high points, the Contractor shall install corporations at such points so the air can be expelled as the pipe is filled with water.

Flush all water mains prior to testing. **Pressure Gauges shall be installed on existing pipes that are used to feed flushing water to the new main to allow for pressure monitoring. System pressure shall be maintained at a minimum of 20 psi.** Flushing shall be accomplished by removing the main hydrant valves and bonnets and flushing water through the full open hydrant barrels.

After expelling all air from the main and properly flushing it, the specified test pressure shall be applied. The test pressure shall be applied, based on the lowest point of the line under test and corrected to the elevation of the test gauge. Pressure shall be applied by means of a pump connected to the pipe in a manner satisfactory to the Utility and Engineer. The pump, piping, connections and all necessary apparatus for conducting the test shall be furnished by the Contractor. The Utility may supply the gauges for the test. The Contractor shall furnish and install all necessary caps, plugs, taps, blowoffs, piping and valves needed to flush and test the pipe. The Contractor shall remove all tubing and piping from the main once all necessary testing has been completed and install approved plugs.

All exposed pipe, fittings, valves, hydrants, and joints shall be examined carefully during the test. Any damaged or defective pipe, fittings, valves, hydrants, or joints that are discovered during the pressure test shall be repaired or replaced with sound material, and the test shall be repeated.

ACCEPTANCE

Leakage shall be defined as the quantity of water that must be supplied into the new pipe or any valved section thereof to maintain pressure within 5 psi of the specified test pressure for the duration of the test.

Acceptance shall be determined on the basis of allowable leakage. If any test of pipe discloses leakage greater than that specified in the following table, the Contractor shall, at his own expense, locate, make approved repairs and retest as necessary until the leakage is within the specified allowance.

The allowable leakage from the water main shall be as specified in the following table:

Inside Pipe Diameter (mm)	Allowable Leakage (gph / 305 m)
100	0.37
150	0.55
200	0.74
250	0.92
300	1.10

BASIS OF PAYMENT

Water Main Testing is incidental to pipe installation as specified in Ductile Iron Pipe and Appurtenances - Section 822.

SPECIAL PROVISION Section 833

WATER MAIN DISINFECTION

GENERAL

Furnish all labor, materials and equipment required to disinfect all water mains as specified in the contract documents. All water mains shall be disinfected prior to acceptance. All disinfection shall be done in the presence of the Engineer. The Contractor shall notify the Engineer at least 48 hours in advance of any disinfection. All work under this Section shall comply with AWWA C-651 except as herein specified. All taps and apparatus required for testing and disinfection shall be the responsibility of the Contractor per Special Provision Section 822.

PREVENTATIVE MEASURES

Prevent contaminating materials from entering the pipe during installation. Plugs shall be used where necessary during installation of the pipe to prevent the pipe from being contaminated with mud and silt. All gaskets and lubricants shall conform to AWWA standards. In no case shall petroleum based lubricants be used.

FLUSHING AND TESTING

The water main shall be flushed and tested prior to disinfection as outlined in Special Provision Section 832 WATER MAIN TESTING.

APPLICATION OF CHLORINE

The required method of disinfecting the water main is by uniform continuous injection of a hypochlorite solution into the main while flowing one source. The chlorine shall be fed into the main at a measured rate so that the entire main is chlorinated to a concentration of 50 mg/l. The chlorine shall be retained in the main for at least 24 hours. At the end of 24 hours the chlorine concentration in the main shall be at least 25 mg/l.

Slug Methods of disinfection shall not be allowed. Hypochlorite solutions shall utilize sodium hypochlorite (liquid), solutions shall not be mixed from tablets or powdered hypochlorite.

FINAL FLUSHING OF MAINS

After the required retention period, the heavily chlorinated water shall be flushed from the main until the chlorine concentration in the main is no higher than water in the system or is acceptable for domestic use. The Contractor shall be responsible for the proper disposal/dechlorination of the highly chlorinated water, per Department of Human Services and DEP regulations.

BACTERIOLOGICAL TESTING

After the required retention period, the heavily chlorinated water shall be flushed from the main until the chlorine concentration in the main is no higher than water in the system or is acceptable for domestic use. Pressure Gauges shall be installed on existing pipes that are used to feed flushing water to the new main to allow for pressure monitoring. System pressure shall be maintained at a minimum of 20 psi. If the pressure in the existing system drops below 20 psi, flushing will be stopped until the system has recovered enough to safely start flushing again. The Contractor shall be responsible for the proper disposal/dechlorination of the highly chlorinated water, per Department of Human Services and DEP regulations.

After final flushing and before the water main is placed in service, initial samples shall be collected from the water main for bacteriological testing per State of Maine regulations and AWWA specifications. Twenty-four (24) hours after collecting the initial samples, confirmation samples shall be collected. The tests shall be done in accordance with Standard Methods and shall be done by a State Certified Laboratory. If both the initial and confirmation tests show that the samples meet State colliform and bacteria standards then the main shall be placed in service.

If the initial tests fail, the main shall be reflushed and resampled. If these tests fail, the main shall be rechlorinated and the process repeated at the Contractor's expense until satisfactory results are obtained.

The Utility District or Engineer will collect the bacteriological samples and provide the testing. Samples are required at 365m maximum spacing.

BASIS OF PAYMENT

Water Main Disinfection is incidental to ductile iron pipe installation as specified in Ductile Iron Pipe and Appurtenances - Section 822.

Environmentel Summery Sheet
PIN #: 9199.00 Town: Dover Foxcroft Environmental Office Contact: Ben Condon (ben.condon@maine.gov) 592-0921 Coordination & Permits Manager: Matt Steele Database/Projex Image: Date Submitted:
Image: Section 106 and Tribal Consultation Architectural Resources PA □ Applicable ⊠ Approved ⊠ Archeological Resources PA □ Applicable ⊠ Approved ⊠ Tribal Consultation Tribal Letters Sent □ Approved □ Town & Local Hist. Society Contacted Yes □ No□
☑ 4(f) and 6(f) Section 4(f) Are there Right of Way Takes or Easements on Public Park Property □ Yes ⊠ No Are there Right of Way Takes or Easements on Public Recreational Property □ Yes ⊠ No Are there Right of Way Takes or Easements on Public Recreational Property □ Yes ⊠ No Are there Right of Way Takes or Easements on Public Wildlife Refuge Property □ Yes ⊠ No Are there Right of Way Takes or Easements on Historic Eligible or Listed Property □ Yes □ No Are there Right of Way Takes or Easements on Property within a Historic District □ Yes □ No Are there Right of Way Takes or Easements on Property within a Historic District □ Yes ⊠ No Has MHPC Determined an Adverse Effect □ Yes ⊠ No Is a Programmatic or Full 4(f) Document Required □ □ Yes ⊠ No
<u>LAWCON 6(f)</u> N/A \boxtimes Applicable Approved
\boxtimes FEMAGIS Floodplains Checked \boxtimes N/A \boxtimes ApplicableApproved
GIS Essential Habitats Checked ⊠ Eagle Nest N/A ⊠ Applicable □ Approved □ Piping Plover N/A ⊠ Applicable □ Approved □ Roseate Tern N/A ⊠ Applicable □ Approved □ Image: Conservation of Conservation / Public Lands, Submerged Land Lease N/A ⊠ Applicable □ Image: Conservation of Conservation / Public Lands, Submerged Land Lease N/A ⊠ Applicable □ Image: Conservation of Conservation / Public Lands, Submerged Land Lease N/A ⊠ Applicable □ Image: Conservation of Conservation of Conservation / Public Lands, Submerged Land Lease N/A ⊠ Applicable □ Image: Conservation of Conservation of Conservation of Conservation of Conservation of Lure of Conservation of Lure of Conservation of Conservatio of Conservation of Conservatio of Conservat
☑ Maine Department of Environmental Protection (MDEP) Site Location of Development N/A ☑ Applicable □ Approved □
☑ Maine Department of Environmental Protection (MDEP), Natural Resource Protection Act No permit required ☑ Exempt □ (Must use erosion and sediment control and not block fish passage.) PBR □ Approved □ Tier 1 □ Approved □ Tier 2 □ Approved □ Individual □ Approved □ ☑ Army Corps of Engineers (ACOE), Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act.
No permit required ⊠ Category 1-NR□ Approved □ Category 2□ Approved □ Category 3□ Approved □
NOTE : If project requires a Category 2 or 3 Permit from the ACOE, then the MaineDOT Resident must fill out a "Work Start Notification Form" and a "Compliance Certification Form" (when project has been completed) and send them to the address listed on the forms.
 ☑ IN-STREAM TIMING RESTRICTIONS: 105 Special Provision □ n/a ☑ No In-water Work Dates instream work is allowed: ☑ NEPA Complete ☑ Special Provision 656, Erosion Control Plan ☑ Special Provision 203, Dredge Spec and/or Hazardous Waste Spec



<u>Home</u> > <u>Download Documents</u> > Construction Requirements

DRINKING WATER STATE REVOLVING LOAN FUND

CONSTRUCTION CONTRACT REQUIREMENTS FOR EQUIVALENCY PROJECTS

(for loans after 3/30/96)

NOTE: In the ADVERTISEMENT TO BIDDERS, the following language should be used making all Bidders aware of the DHS Special conditions.

Bid Bond

A certified check or bank draft payable to the OWNER or a satisfactory Bid Bond executed by the Bidder and a Surety Company the equal to five percent (5%) of the Bid shall be submitted with each bid. No bid may be withdrawn for at least 60 days after receipt of bids unless released by the owner.

Minority and Women Business Enterprise Requirements

Each Bidder shall take notice special notice of the Guidance for use of Minority and Women Business Enterprises in the DHS Supplemental General Conditions. Failure to complete these requirements may result in finding that the Bidder is nonresponsive therefore, not eligible to awarded this contract. Complete requirements are located in the Bid Documents.

Nondiscrimination in Employment and Labor Standards

Bidders on this work will be required to comply with the President's Executive Order No. 11246 and amendments and supplementat Order. The requirements for Bidders and CONTRACTORS under this Order are located in the DHS Supplemental Conditions.

Federal Requirements

The CONTRACTOR must comply with the Department of Labor Regulations relating to Copeland "Anti-Kickback Act (1 U.S.C. 874) as supplemented by 29 CFR part 3, Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by 29 CFR part 5, and Occupational Safety and Health Standards (OSHA) (29 CFR part 1910).

The CONTRACTOR must comply with all applicable standards, orders, or requirements issued under section 306 of the C Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and the Environmental Protection Agency regulations (40 CFR Part 15).

The CONTRACTOR must comply with all permits, restrictions and conditions, issued for the PROJECT by Federal Cross cutting Authorities.

<u>Disclaimer</u>

Any contract awarded under this Advertisement to Bidders is expected to be funded in part by a Maine Drinking Water State Revolving Fund Ioan. Neither the State of Maine nor any of its departments, agencies, or employees is, or will be, party to the CONTRACT.

Notice to Bidders

Any person interested in Bidding on this contract must become thoroughly familiar with the DHS Supplemental Conditions. Failu

comply with any of these conditions, may result in the Bidder not being eligible for the award of this contract.

NOTE: The following language shall be added* to the INFORMATION FOR BIDDERS section of the specifications:

Bonding and Insurance

Bidders must furnish a bid guarantee equivalent to five percent (5%) of the bid price. In addition the CONTRACTOR awa a construction contract must furnish performance and payment bonds, each of which shall be in an amount not less than 10 percent of the contract price. CONTRACTORS shall obtain such construction insurance (e.g., fire and extended coverage, workmen's compensation, public liability and property damage, and "all risk" builders risk) as is customary and appropriate

Manufacturer's Experience

Wherever it may be written that an equipment manufacturer must have a specified period of experience with his product or equipment, who does not meet the specified experience period, can be considered if the equipment supplier or manufacture willing to provide a bond or cash deposit for the duration of the specified time period which will guarantee replacement of equipment in the event of failure.

Sales Tax

This PROJECT is exempt from State Sales and Use or Excise Taxes to the extent allowed by law.

Safety and Health Regulations

This PROJECT is subject to all the Safety and Health Regulations (CFR 29 Part 1926 and all subsequent amendments) as promulgated by the US. Department of Labor on June 24, 1974. CONTRACTORS are urged to become familiar with the requirements of these regulations.

Nondiscrimination in Employment

- a. Contracts for work under this proposal will obligate the CONTRACTORS and the SUBCONTRACTORS not to discriminate in employment practices.
- b. Bidders must submit with their initial bid a signed statement as to whether they have previously performed work subject to the President's Executive Order No. 11246, or any preceding similar Executive Order.

- c. Bidders must, if requested, submit a compliance report concerning their employment practices and policies in order maintain their eligibility to receive the award of the contract.
- d. Successful bidders must, if requested, submit a list of all SUBCONTRACTORS who will perform work on the PROJECT, and written signed statements from authorized agents of labor pools with which they will or may deal for employees on the work together with supporting information to the effect that such labor pools' practices and polici are in conformity with Executive Order No. 11246; that they will affirmatively cooperate in or offer no hindrance to recruitment, employment, and equal treatment of employees seeking employment and performing work under the contract or, a certification as to what efforts have been made to secure such statements when such agents or labor p have failed or refused to furnish them prior to award of the contract.

* Each system must determine whether or not the Sales Tax paragraph is applicable to its project.

e. Successful bidders must be prepared to comply in all respects with the contract provisions regarding nondiscrimina

Minority and Women Business Enterprises Requirements

The CONTRACTOR will take all necessary affirmative steps to assure that minority firms, women's business enterprises, a labor surplus area firms are used when possible.

Affirmative steps shall include:

- (i) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (ii) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (iii) Dividing total requirements, when economically feasible into smaller tasks or quantities to permit maximum participation by small and minority business, and women's business enterprises;
- (iv) Establishing delivery schedules, where the requirement permits, which encourage participation by small and mine business, and women's business enterprises; and
- (v) Using the services and assistance of the Small Business Administration, and the Minority Business Development Agency of the Department of Commerce.

The goals for this PROJECT are a minimum of five percent (5 %) MBE and WBE participation (1.3 % MBE; 3.7 % WBE)

these goals are not met the successful bidder must demonstrate a good faith effort toward meeting the goals. The successful bidder must submit to the OWNER, within ten (10) days of the bid opening, the appropriate one of either Attachment A (tl MBE/WBE goals having been met) or Attachment B (the MBE/WBE goals not having been met) completed in its entirety addition, the CONTRACTOR shall submit to the OWNER, a compliance report (Attachment C) listing the MBEs and WB their work and the amount of payment to each, during each pay request period, for the duration of the contract. Attachmer A, B, and C are Exhibit 1 to this document.

NOTE to ENGINEER: The most recent copy of the Maine Department of Transportation's "Certified Disadvanta Business Enterprise Directory" should be attached and made part of the specifications. If not attached a notice of t availability must be made, both in hard copy and electronically.

"Or Equal" Clause

Whenever a material, article, or piece of equipment is identified by reference to a manufacturer or trade name, it shall be understood that this is referenced for defining the performance of the material, article, or piece of equipment and that other products of equal capacities, quality and function shall be considered. It shall be the CONTRACTOR'S responsibility to coordinate all submittals to the ENGINEER for approval to eliminate any conflicts which might arise due to the use of the equal" item. Any additional costs incident to the use of "or equal" items will be paid by the CONTRACTOR.

NOTE to ENGINEERS: The BID PROPOSAL and CONTRACT AGREEMENT must contain the following:

Performance Time Frame

The time frame for contract performance, final completion, and if necessary, substantial completion.

Liquidated Damages

A requirement for assessing Liquidated Damages, including the method and amount.

Acknowledgment of Addenda

A section for the CONTRACTOR to acknowledge receipt of addenda.

Bid Proposal Form (only)

The Bid Proposal Form must be consistent with the plans and specifications.

DWSRF SUPPLEMENTAL GENERAL CONDITIONS

The provisions of the Drinking Water State Revolving Loan Fund (DWSRF) Supplemental General Conditions described below change, amend, or supplement the General Conditions and shall supersede any conflicting provisions of the CONTRACT. All provisions of the General Conditions which are not changed, amended, or supplemented, remain in full force.

Contract Security

The CONTRACTOR shall within ten (10) days after the receipt of the NOTICE OF AWARD furnish the OWNER with a Performance Bond in penal sums equal to the amount of the CONTRACT PRICE, conditioned upon the performance by the CONTRACTOR of all undertakings, covenants, terms, conditions and agreements of the CONTRACT DOCUMENTS, and a Payment Bond in penal sums equal to the amount of the contract price conditioned upon the prompt payment by the CONTRACTOR to all persons supplying labor and materials in the prosecution of the WORK provided by the CONTRACT DOCUMENTS. Such BONDS shall be executed by the CONTRACTOR and a corporate bonding company licensed to transact such business in the State of Maine. TI expense of these BONDS shall be borne by the CONTRACTOR. If at any time a surety on any such BOND is declared a bankrupt or loses its right to do business in the State of Maine, the CONTRACTOR shall within ten (days after notice from the OWNER to do so, substitute an acceptable BOND (or BONDS) in such form and surr and signed by such other surety or sureties as may be satisfactory to the OWNER. The premiums on such BOI shall be paid by the CONTRACTOR. No further payments shall be deemed due nor shall be made until the new surety or sureties shall have furnished an acceptable BOND to the OWNER.

Contractor's and Subcontractor's Insurance

The CONTRACTOR shall not commence work under this contract until he has obtained all the insurance required hereunder and such insurance has been approved by the OWNER, nor shall the CONTRACTOR allow any SUBCONTRACTOR to commence work on his subcontract until all similar insurance required of the SUBCONTRACTOR has been so obtained and approved. Approval of the insurance by the OWNER shall not relieve or decrease the liability of the CONTRACTOR hereunder.

Operations under the CONTRACT DOCUMENTS, whether such operations be by himself or by any SUBCONTRACTOR under him, requires insurance to be written with a limit of liability of not less than \$1,000,00 for all damages arising out of bodily injury, including death, at any time resulting therefrom, sustained by any on person in any one accident; and a limit of liability of not less than \$1,000,000 aggregate for any such damages sustained by two or more persons in any one accident. Insurance shall be written with a limit of liability of not less than \$500,000 for all property damage sustained by any one person in any one accident; and a limit of liability c not less than \$500,000 for all property damage sustained by any one person in any one accident; and a limit of liability c not less than \$500,000 aggregate for any such damage sustained by two or more persons in any one accident.

The CONTRACTOR shall acquire and maintain, if applicable, Fire and Extended Coverage insurance upon the

PROJECT to the full insurable value thereof for the benefit of the OWNER, the CONTRACTOR, and SUBCONTRACTOR as their interest may appear. This provision shall in no way release the CONTRACTOR o CONTRACTOR'S surety from obligations under the CONTRACT DOCUMENTS to fully complete the PROJEC¹

The CONTRACTOR shall procure and maintain, at his own expense, during the CONTRACT TIME, in accordar with the provisions of the laws of the State of Maine, Workmen's Compensation Insurance, including occupatior disease provisions, for all of his employees at the site of the PROJECT and in case any work is sublet, the CONTRACTOR shall require such SUBCONTRACTOR similarly to provide Workmen's Compensation Insuranc including occupational disease provisions for all of the latter's employees unless such employees are covered the protection afforded by the CONTRACTOR. In case any class of employees engaged in hazardous work un this contract at the site of the PROJECT is not protected under Workmen's Compensation statute, the CONTRACTOR shall provide, adequate and suitable insurance for the protection of his employees not otherwis protected.

Time of Completion and Liquidated Damages

The Bid Proposal and the Contract Agreement must contain a paragraph specifying the TIME of COMPLETION stated as a number a calendar days following execution of the contract, and, the dollar amount of LIQUIDATED DAMAGES to be paid to the OWNER for each calendar day beyond the specified completion period that the wc remains uncompleted.

Bid Protests

All protests arising from the OWNER'S procurement practices must be submitted to the OWNER as soon as practical. The OWNER will investigate the basis for the protest, seek the advice of legal counsel, document all meetings and actions, and attempt to resolve the protest promptly and equitably.

In the event that the protest is not settled, an appeal may be filed with the Department of Human Services (DHS

Contractor's Guaranty

The CONTRACTOR shall guarantee all materials and equipment furnished and WORK performed for a period (one (1) year from the date of SUBSTANTIAL COMPLETION. The CONTRACTOR warrants and guarantees fo period of one (1) year from the date of SUBSTANTIAL COMPLETION of the system that the completed system free from all defects due to faulty materials or workmanship and the CONTRACTOR shall promptly make such corrections as may be necessary by reason of such defects including the repairs of any damage to other parts (the system resulting from such defects. The OWNER will give notice of observed defects with reasonable promptness. In the event that the CONTRACTOR should fail to make such repairs, adjustments, or other WOR that may be made necessary by such defects, the OWNER may do so and charge the CONTRACTOR the cost thereby incurred. The PERFORMANCE BOND shall remain in full force and effect through the guarantee perio **Inspection**

Representatives of the OWNER and of the Department of Human Services (DHS) shall have access to the work wherever it is in preparation or progress and the CONTRACTOR shall provide proper facilities for such access a inspection.

Claims or Disputes

All claims or disputes between the OWNER and the CONTRACTOR may be settled informally using the DHS a mediator or formally in a court of law. All resolved disputes and claims must be submitted to the DHS by chang order for approval before payment.

All claims, disputes, and other matters in question arising out of, or relating to, the Contract Documents or a bre thereof, shall be settled by litigation in a court of competent jurisdiction.

Posting Documents

The following documents must be posted and maintained by the CONTRACTOR at such place or places on the PROJECT site where they can be seen by employees. The posters may be obtained, free of charge, from "Business Answers" 1-800-872-3838.

- 1. "Notice to Labor Union or Other Organizations of Workers" (Exhibit 2)
- 2. "Equal Employment Opportunity is the Law" poster
- 3. "Job Safety and Health Protection" poster
- 4. "Fair Labor Standards Act" poster
- 5. "Employee Polygraph Protection Act" poster
- 6. "Family and Medical Leave Act" poster (applicable to employers of 50 or more employees
- 7. "Notice Relative to the Regulation of Employment" (State Poster)
- 8. "Minimum Wage" (State Poster)
- 9. "Whistleblowers' Protection Act" (State Poster)
- 10. "Sexual Harrassment Law" (State Poster)
- 11. "Workers Compensation" (State Poster)
- 12. "Maine Employment Security Law" (applicable to employers who must pay unemployment tax). Available from the Unemploymen Compensation Division of the Maine Dept. of Labor.

Payment of Employees

Minimum Wages

All mechanics and laborers employed or working upon the construction site work of the PROJECT, will be pathe full amounts due at time of payment computed at wage rates not less than State Minimum Wage regardled of any contractual relationship which may be alleged to exist between the CONTRACTOR and such laborers and mechanics.

Overtime Payments

An employer is obligated to make proper wage payments under the Fair Labor Standards Act, and the Conti Work Hours Standards Act, for hours worked in excess of 40 hours in a work week. An employee must rece compensation at a rate not less than one and one-half times the regular rate of pay (basic hourly rate) for all hours worked in excess of 40 hours per week.

Wage Record of Contractor

The CONTRACTOR and each SUBCONTRACTOR shall keep an accurate record showing the names, social security number, and occupation of each and all laborers, workmen, and mechanics employed by them in connection with this PROJECT showing the hours worked, the title of the job, the hourly rate and the actual waç paid to each of them. A copy of such record shall be kept at the job site and shall be open at all reasonable hour to the inspection of the Bureau of Labor Standards, the OWNER, and the Department of Human Services.

Retention of Payroll Records

Payroll records, including original field notes and back up material will be maintained during the course of the w by the CONTRACTOR, including payroll of each SUBCONTRACTOR for a period of three years after the completion of the PROJECT.

Violations of Labor Standards

In the event of a violation of the Overtime Payments clause the CONTRACTOR and any SUBCONTRACTOR responsible therefor shall be liable for the unpaid wages and shall be liable to the United States for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic employed in violation of the clause in the sum of \$10 for each calendar day on which such individual was requir or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages.

In the event of any violation by the CONTRACTOR or SUBCONTRACTOR of the labor standards provisions of their contract, the OWNER may, after notice to the CONTRACTOR, suspend further payments until such violati have ceased.

Payment to Contractor

At least ten (10) days before each progress payment falls due (but not more often than once a month), the CONTRACTOR will submit to the ENGINEER a partial payment estimate filled out and signed by the CONTRACTOR covering the WORK performed during the period covered by the partial payment estimate and

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supported by such data as the ENGINEER may reasonably require. If payment is requested on the basis of materials and equipment not incorporated in the WORK but delivered and suitably stored at or near the site, the partial payment estimate shall also be accompanied by such supporting data, satisfactory to the OWNER, as will establish the OWNER'S title to the material and equipment and protect the OWNER'S interest therein, includinc applicable insurance. The ENGINEER will, within ten (10) days after receipt of each partial payment estimate, either indicate in writing approval of payment, and present the partial payment estimate to the OWNER, or retur the partial payment estimate to the CONTRACTOR indicating in writing the reasons for refusing to approve payment. In the latter case, the CONTRACTOR may make the necessary corrections and resubmit the partial payment estimate. The OWNER will, within ten (10) days of presentation of an approved partial payment estim pay the CONTRACTOR a progress payment on the basis of the approved partial payment estimate less the retainage. The retainage shall be an amount equal to ten percent (10%) of said estimate until fifty percent (50%) the work has been completed. At fifty percent (50%) completion, further partial payments shall be made in full t the CONTRACTOR and no additional amounts retained unless the ENGINEER certifies that the job is not proceeding satisfactorily, but amounts previously retained shall not be paid to the CONTRACTOR. At fifty perce (50%) completion or any time thereafter when the progress of the WORK is not satisfactory, additional amounts may be retained but in no event shall the total retainage be more than ten percent (10%) of the value of the wor completed. Upon substantial completion of the work the OWNER shall retain an amount sufficient to cover the estimated cost of the work still to be completed.

The CONTRACTOR will indemnify and save the OWNER harmless from all claims growing out of the lawful demand of SUBCONTRACTORS, laborers, workmen, mechanics, material men, and furnishers of machinery al parts thereof, equipment, tools, and all supplies incurred in the furtherance of the performance of the WORK. T CONTRACTOR shall, at the OWNER'S request, furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged, or waived. This may be required on a monthly basis. If the CONTRACTOR fails to do so the OWNER may, after having notified the CONTRACTOR, either pay unpaid bill: withhold from the CONTRACTOR'S unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharge whereupon payment to the CONTRACTOR shall be resumed in accordance with the terms of the CONTRACT DOCUMENTS, but in no event shall the provisions of this sentence be construed to impose any obligations upc the OWNER to either the CONTRACTOR, the CONTRACTOR'S Surety, or any third party. In paying any unpa bills of the CONTRACTOR, any payment so made by the OWNER shall be considered as a payment made unc the CONTRACT DOCUMENTS by the OWNER to the CONTRACTOR and the OWNER shall not be liable to th CONTRACTOR for any such payments made in good faith.

Changes in the Work

The OWNER may at any time, as the need arises, order changes within the scope of the WORK without invalidating the Agreement. If such changes increase or decrease the amount due under the CONTRACT DOCUMENTS, or the time required for performance of the WORK, an equitable adjustment shall be authorized CHANGE ORDER.

The ENGINEER, also, may at any time, by issuing a FIELD ORDER, make changes in the details of the WORK The CONTRACTOR shall proceed with the performance of any changes in the WORK so ordered by the ENGINEER unless the CONTRACTOR believes that such FIELD ORDER entitles the CONTRACTOR to a chai in CONTRACT PRICE or TIME, or both, in which event the CONTRACTOR shall give the ENGINEER WRITTE NOTICE thereof within seven (7) days after the receipt of the ordered change. Thereafter the CONTRACTOR s document the basis for the change in CONTRACT PRICE or TIME within thirty (30) days. The CONTRACTOR shall not execute such changes pending the receipt of an executed CHANGE ORDER or further instruction from the OWNER.

Changes in Contract Price

The CONTRACT PRICE may be changed only by a CHANGE ORDER. The value of any WORK covered by a CHANGE ORDER or of any claim for increase or decrease in the CONTRACT PRICE shall be determined by o or more of the following methods in the order of procedure listed below:

- a. Unit prices previously approved.
- b. An agreed lump sum.
- c. Time and materials

For all change order work performed under c, a fee for overhead and profit will be allowed over and above the "actual cost" of the work. For work performed by a SUBCONTRACTOR, this fee shall not exceed fifteen percer (15%) for the SUBCONTRACTOR and five percent (5%) for the general CONTRACTOR. The general CONTRACTOR'S five percent (5%) is calculated on the SUBCONTRACTOR'S actual cost before the fee is adc The total fee on "actual work" shall not exceed twenty percent (20%). For work performed by the general CONTRACTOR, this fee shall not exceed fifteen percent (5%).

The "actual cost" of work includes the reasonable cost to the CONTRACTOR of the following:

- a. materials used as part of the work;
- b. common and skilled labor and foreman only;
- equipment rental for the period employed directly on the work at rates not exceeding the monthly rate contained in the current "Rental Rate Blue Book for Construction Equipment (published by the Equipmer Guidebook Company);
- d. additional insurance if required, to cover public liability for injury to persons and property;
- e. Workmen's Compensation Insurance, Federal Social Security and any other costs associated with payrc and required by law.

The "actual cost" of work does <u>not</u> include the following:

a. purchase or rental of small tools and buildings;

- b. CONTRACTOR'S supervision of SUBCONTRACTOR (these costs are part of fee outlined above;
- c. use of capital or premium on the bond unless the extra work includes an extension of time approved and authorized by the OWNER.
- d. overhead and profit.

Access to records

The OWNER, DHS, Maine Municipal Bond Bank and the Comptroller General of the United States, or any of the authorized representatives, shall have the right of access to any pertinent books, documents, papers, or other records of CONTRACTORS which are pertinent to this PROJECT in order to make audits, examinations, excering and transcripts.

Expiration of right of access. The rights of access shall last as long as the records are retained. The minimum retention period is three years.

Project Sign

The CONTRACTOR shall provide and erect a PROJECT sign as detailed and specified. The location of the sig shall be as directed by the ENGINEER. No other CONTRACTOR, SUBCONTRACTOR or material signs will be permitted on the sign. The CONTRACTOR shall maintain and keep the PROJECT sign in good condition until work is completed when the sign will be removed. All other signs to be erected on the site shall be approved by ENGINEER. Provide adequate supports for sign as site conditions may require and keep sign a proper distanc above prevailing grade to permit public viewing.

MBE/WBE

ATTACHMENT A

THE MBE/WBE GOAL HAVING BEEN MET, the following information must be submitted:

PUBLIC WATER SYSTEM: _____

SRF PROJECT NO.: _____

CONTRACT NO.: _____

\$

\$_____

%

\$_____

%

STATE: _____

1.	Total dollar	amount	of the	contract:	
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2. Total dollar amount of the MBE participation:

3. Percentage of MBE participation:

4. Total dollar amount of WBE participation:

- 5. Percentage of WBE participation:
- 6. List of MBE/WBE subcontractors (fill out for each of MBE/WBE used):

List of MBE/WBE firms to be used.

Company Name	Contact Person	Phone	Type of Work	Amount

This attachment must be signed by an authorized representative of the bidder.

Exhibi

Signature		Date	
	Name:		
	Title:		
	Address:		
	Phone:		

MBE/WBE

ATTACHMENT B

(page 1 of 2)

THE MBE/WBE GOAL NOT HAVING BEEN MET, the following information must be submitted:

PUBI	LIC WATER SYSTEM:	STATE:
SRF	PROJECT NO.:	CONTRACT NO.:
Α.	MBE/WBE Participation:	
	1. Total dollar amount of the contract:	\$
	2. Total dollar amount of the MBE participa	ation: \$
	3. Percentage of MBE participation:	%
	4. Total dollar amount of WBE participation	n: \$
	5. Percentage of WBE participation:	%

B. MBE/WBE Solicitation:

List each minority and women-owned firm (whether or not on the Loanee's Project List) t which a letter of solicitation was sent. It is suggested that correspondence be sent by certi or registered mail since the burden or proof of positive efforts to utilize MBE/WBE firms rest with the bidder.

A copy of each solicitation letter MUST be attached.

Minority-Owned Firm Contacted	Women-Owned Firm Contacted
1)	1)
2)	2)
3)	3)
4)	4)
5)	5)
6)	6)
7)	7)
8)	8)
9)	9)
10)	10)

C. <u>List all MBE/WBE firms to be used:</u>

List of MBE/WBE firms to be used.

Company Name	Contact Person	Phone	Type of Work	Amount

D. List all MBE/WBE firms from which a bid or quotation was received which is not listed in S above and the reason the firm was not selected:

List of MBE/WBE firms not to be used.

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Company Name	Contact Person	Phone	Reason Not Selected

This attachment must be signed by an authorized representative of the bidder.

Signature	Date
Name:	
Title:	
Address:	
Phone:	

ATTACHMENT C

UTILIZATION OF WBE/MBE FIRMS

THE FOLLOWING INFORMATION MUST BE SUBMITTED WITH REIMBURSEMENT REQUESTS THAT INCLUDE INVOICED AMOUNTS FROM A QUALIFYING WBE OR MBE PARTICIPANT:

Public Water System Name: _____

Contract No._____DWSRF Project No._____

The accompanying Reimbursement Request includes the following WBE/MBE participation:

MBE/WBE firm to be paid

WBE MBE Amount to be paid this request

Payment Request No._____ Period covered by the request / / to / /

This attachment must be signed by an authorized representative of the contractor.

Signature

Date

Name:

Title:

Phone:

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DWP: DWSRF Construction Requirements

NOTICE TO LABOR UNIONS OR OTHER ORGANIZATIONS OF WORKERS

NONDISCRIMINATION IN EMPLOYMENT

To:

(Name of union or organization of workers)

The undersigned currently holds contract(s) with _____

(Name of Applicant)

involving funds or credit of the U.S. Government of (a) subcontract(s) with a prime CONTRACTOR holding such contract(s).

You are advised that under the provisions of the above contract(s) or subcontract(s) and in accordance with Executive Order 11246, dat September 24, 1965, the undersigned is obliged not to discriminate against any employee or applicant for employment because of race, color, creed, or national origin. This obligation not to discriminate in employment includes, but is not limited to, the following:

HIRING, PLACEMENT, UPGRADING, TRANSFER, OR DEMOTION

RECRUITMENT, ADVERTISING, OR SOLICITATION FOR

EMPLOYMENT TRAINING DURING EMPLOYMENT, RATES OF PAY OR OTHER FORMS OF COMPENSATION, SELECTION FOR TRAINING INCLUDING APPRENTICESHIP, LAYOFF, OR TERMINATION.

This notice is furnished you pursuant to the provisions of the above contract(s) or subcontract(s) and Executive Order 11246.

COPIES OF THIS NOTICE WILL BE POSTED BY THE UNDERSIGNED IN CONSPICUOUS PLACES AVAILABLE TO EMPLOYEES OR APPLICANTS FOR EMPLOYMENT. /s/_____

(Contractor or subcontractor)

(Date)

Exhibit 2

Maine.gov | DHHS Home | Public Health Home | Division of Environmental Health Home | Site Policies

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USDA Form RD 400-6 (Rev. 4-00)

COMPLIANCE STATEMENT

This statement relates to a proposed contract with____

(Name of borrower or grantee)

who expects to finance the contract with assistance from either the Rural Housing Service (RHS), Rural Business-Cooperative Service (RBS), or the Rural Utilities Service (RUS) or their successor agencies, United States Department of Agriculture (whether by a loan, grant, loan insurance, guarantee, or other form of financial assistance). I am the undersigned bidder or prospective contractor, I represent that:

- 1. I have, have not, participated in a previous contract or subcontract subject to Executive 11246 (regarding equal employment opportunity) or a preceding similar Executive Order.
- 2. If I have participated in such a contract or subcontract, I \square have, \square have not, filed all compliance reports that have been required to file in connection with the contract or subcontract.

If the proposed contract is for \$50,000 or more and I have 50 or more employees, I also represent that:

- 3. I have, have not previsouly had contracts subject to the written affirmative action programs requirements of the Secretary of Labor.
- 4. If I have participated in such a contract or subcontract, I have, have not developed and placed on file at each establishment affirmative action programs as required by the rules and regulations of the Secretary of Labor.

I understand that if I have failed to file any compliance reports that have been required of me, I am not eligible and will not be eligible to have my bid considered or to enter into the proposed contract unless and until I make an arrangement regarding such reports that is satisfactory to either the RHS, RBS or RUS, or to the office where the reports are required to be filed.

I also certify that I do not maintain or provide for my employees any segregated facilities at any of my establishments, and that I do not permit my employees to perform their services at any location, under my control, where segregated facilities are maintained. I certify further that I will not maintain or provide for my employees any segregated facilities at any of my establishments, and that I will not permit my employees to perform their services at any location, under my control, where segregated facilities are maintained. I agree that a breach of this certification is a violation of the Equal Opportunity clause in my contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and wash rooms, restaurants and other eating areas time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, creed, color, or national origin, because of habit, local custom, or otherwise. I further agree that (except where I have obtained identical certifications for proposed subcontractors for specific time periods) I will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause; that I will retain such certifications in my files; and that I will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods): (See Reverse).

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0575-0018. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENTS FOR CERTIFICATIONS OF NON-SEGREGATED FACILITIES

A certification of Nonsegregated Facilities, as required by the May 9, 1967, order (32F.R. 7439, May 19, 1967) on Elimination of Segregated Facilities, by the Secretary of Labor, must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e. quarterly, semiannually, or annually).

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

DATE

(Signature of Bidder or Prospective Contractor)

Address (including Zip Code)

U.S. DEPARTMENT OF AGRICULTURE

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION - LOWER TIER COVERED TRANSACTIONS

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 7 CFR Part 3017, Section 3017.510, Participants' responsibilities. The regulations were published as Part IV of the January 30, 1989, <u>Federal Register</u> (pages 4722-4733). Copies of the regulations may be obtained by contacting the Department of Agriculture agency with which this transaction originated.

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS ON REVERSE)

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it not its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Organization Name

PR/Award Number or Project Name

Name(s) and Title(s) of Authorized Representative(s)

Signature(s)

Date

Form AD-1048 (1/92)

Instructions for Certification

1. By signing and submitting this form, the prospective lower tier participant is providing the certification set out on the reverse side in accordance with these instructions.

2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later than determined that the prospective lower tier participant knowingly

rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

4. The terms "covered transactions," debarred," "suspended," "ineligible,", "lower tier covered transactions," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

5. The prospective lower tier participant agrees by submitting this form that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

6. The prospective lower tier participant further agrees by submitting this form that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Form AD-1048