REGIONS 2 & 4

ADD SHOULDER AGGREGATE TO EXISTING SHOULDER

SHOULDER MACHINE WITH OPERATOR ONLY

(029485.00A)

2024

Updated 05/15/2020

STATE PROJECT

MAINTENANCE & OPERATIONS

BIDDING INSTRUCTIONS

- 1. Use pen and ink to complete all paper Bids. Signatures shall be original. Stamped and copied signatures will not be accepted.
- 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 Agreement, Offer & Award form, e) a Bid Guaranty, f) the completed Contractor Information Sheet, and g) any other certifications or Bid requirements listed in the Bid Documents as due by Bid opening.

For an Electronic Bid:

<u>NOTE</u>: Not all projects accept Electronic Bids. Please review the Notice to Contractors and see if it specifically states that Electronic Bids will be accepted.

- a) a completed Bid using Expedite® software and submitted via the Bid ExpressTM web-based service, b) an electronic Bid Guaranty (if required) 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 items in the Schedule of Items.
- 4. All Bid Packages which are mailed or sent express, shall be provided in double (one envelope inside the other) envelopes, for security and other reasons. The *Inner Envelope* shall have the following information provided on it:

Bid Enclosed - Do Not Open

WIN:

Towns:

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

WIN:

Towns:

Date of Bid Opening:

Name of Contractor:

If a paper Bid is to be sent express, please take note that overnight services do not always arrive in time and that delivery may be affected by carrier volume, weather and other factors. Packages using express services should be sent to directly to the DOT Headquarters Building, Maine Department of Transportation, 24 Child Street, Augusta. "FedEx First Overnight" delivery is suggested as the package is delivered directly to the DOT Headquarters Building, Mailroom, 24 Child Street, Augusta. Allow extra days for U.S. Postal Service Express Mail which has proven not to be reliable and sometimes does not deliver directly to the DOT Headquarters Building but instead delivers to the State of Maine Mail Distribution Center.

If a paper bid is to be mailed, the mailing address is Maine Department of Transportation, 16 State House Station, Augusta, ME 04333-0016. Allow additional working days for this mail to pass through the state mail system in addition to the US Postal Service as this mail is not delivered directly to the Department of Transportation.

If a paper Bid is to be hand carried, deliver directly to the "Public Entrance" which is located on the Capitol Street side of the DOT Headquarters Building in Augusta.

<u>http://www.maine.gov/mdot/contact.</u> Hand-carried Bids may be in one envelope, and should be marked with the following information:

Bid Enclosed: Do Not Open

WIN: Towns:

Date of Bid Opening: Name of Contractor:

Bids are not accepted by email or FAX.

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, March 2020 Edition.

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 an optional plan holders 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 fill out the on-line plan holder registration form and provide an email address to the MDOT Contracts mailbox at: MDOT.contracts@maine.gov. 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 http://www.BIDX.com. For information on electronic bidding contact Rebecca Snowden at rebecca.snowden@maine.gov or David Oakes at david.oakes@maine.gov.

NOTICE

Bidders:

Please use the attached "Request for Information" form when submitting questions concerning specific Contracts that have been advertised for Bid, include additional numbered pages as required. RFI's may be faxed to 207-624-3431, submitted electronically through the Departments web page of advertised projects by selecting the RFI tab on the project details page or via e-mail to RFI-Contracts.MDOT@maine.gov.

These are the only allowable mechanisms 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.

When submitting RFIs by Email please follow the same guidelines as stated on the "Request for Information" form and include the word "RFI" along with the Project name and Identification number in the subject line.

State of Maine	RFI No: _	
Department of Transportation		

REQUEST FOR INFORMATION

	Date	11me	
Information Request	ted for:		
WIN(S):	Town(s):	Bid Date:	
Request by: Company Name:		Phone:()	
Email:		Fax: ()	
C 1 (1) C	16 4 207 (24 24	21 44 D . 4 M (1.4 L 41	

Complete this form and fax to 207-624-3431, Attn: Project Manager (name listed on the "Notice to Contractors"), or Email questions to RFI-Contracts.MDOT@maine.gov, Please include the word "RFI" along with the Project Name and Identification Number in the Subject line, or electronically by using the RFI Tab located on the Individual Projects Detail page.

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/venbid/index.shtml

CONTRACTOR INFORMATION

Contractor Name:	
Mailing Address:	
endor Customer Number:	
Contact Information (Primary Contac	et):
Phone:	Cell Phone:
Fax:	
Email:	
Mailing Address (if different from abo	ove):
The company has the following organi	izational structure:
☐ Sole Proprietorship	☐ Limited Liability Company
□ Partnership	☐ Joint Venture
☐ Corporation	☐ Other:
(Date)	(Signature)
	(Name and Title Printed)

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 Add Aggregate to Existing Shoulders" in REGIONS 2 & 4" will be received from contractors at the Reception Desk, MaineDOT Building, Capitol Street, Augusta, Maine, until 11:00 o'clock A.M. (prevailing time) on May 29, 2024, and at that time and place, publicly opened and read. Bids will be accepted from all bidders. We now accept electronic bids for bid packages posted on the bidx.com website. Electronic bids do not have to be accompanied by paper bids. 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. Until further notice, dual bids (one paper, one electronic) will be accepted, with the paper copy taking precedence. The lowest responsive bidder must demonstrate successful completion of projects of similar size and scope to be considered for the award of this contract.

Description: Provide a Shoulder Machine with an operator to add MaineDOT supplied aggregate to existing shoulders behind LCP operation.

Location: In Regions 2 & 4

Outline of Work: Provide and operate a shoulder machine on designated roads, and other incidental work.

For general information regarding Bidding and Contracting procedures, contact George Macdougall at (207) 624-3410. Our webpage at http://www.maine.gov/mdot/contractors/ contains a copy of the Schedule of Items, Plan Holders List, written portions of bid amendments, bid results and an electronic form for RFI submittal. For Project-specific information fax all questions to Mark Hume at (207) 624-3431, use electronic RFI form or email questions to RFI-contracts.MDOT@maine.gov, project name and identification number should be in the subject line. Questions received after 12:00 noon of Friday 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. TTY users call Maine Relay 711.

Bid Documents, plans, specifications and bid forms can be viewed and obtained digitally at no cost at http://www.maine.gov/mdot/contractors/. They may be purchased from the Department by cash, credit card (Visa/Mastercard) or check payable to Treasurer, State of Maine sent to Maine Department of Transportation, https://www.maine.gov/mdot/contractors/. They may be purchased from the Department by cash, credit card (Visa/Mastercard) or check payable to Treasurer, State of Maine sent to Maine Department of Transportation, https://www.maine.gov/mdot/contractors/. They may be purchased from the Department of Transportation, https://www.maine.gov/mdot/contractors/. They may be purchased from the Department of Transportation, https://www.maine.gov/mdot/contractors/. They also may be purchased by telephone at (207) 624-3536. Bid Book \$10 (\$13 by mail), payment in advance, all non-refundable.

There will be no bid bond, performance bond or payment bond required.

Each Bid must be made upon blank forms provided by the Department.

This Contract is subject to all applicable State Laws.

All work shall be governed by State of Maine, Department of Transportation, Standard Specifications, March 2020 Edition, price \$10 [\$15 by mail], and Standard Details, March 2020 Edition, price \$10 [\$15 by mail]. They also may be purchased by telephone at (207) 624-3536. Standard Detail updates can be found at http://www.maine.gov/mdot/contractors/publications/.

The right is hereby reserved to the MaineDOT to reject any or all bids.

Augusta, Maine May 8, 2024

THOMAS ROBERTS
REGION MANAGER
MIDCOAST - REGION 2
BUREAU OF MAINTENANCE & OPERATIONS

Mm Phlets

Regions 2 & 4 Add Shoulder Aggregate to Existing Shoulder April 14, 2011 Supersedes August 3, 2004

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 http://www.maine.gov/mdot/contractors/. 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)

Maine Department of Transportation

Project(s): 029485.00A

Proposal Schedule of Items

Proposal ID: 029485.00A

Page 1 of 1

SECTION	: 1 PROJECT ITEMS			
Alt Set ID	: Alt Mbr ID):		
Contractor:				
Proposal Line	Item ID	Approximate	Unit Price	Bid Amount
Number	Description	Quantity and Units	Dollars Cents	Dollars Cents
0010	631.205 SHOULDER MACHINE (INCLUDING OPERATOR) - BRISTOL AREA	70.000 HR	!	
0020	631.205 SHOULDER MACHINE (INCLUDING OPERATOR) - HOLLOWELL AREA	56.000 HR		!
0030	631.205 SHOULDER MACHINE (INCLUDING OPERATOR) - ISLEBORO AREA	7.000 HR	!	
0040	631.205 SHOULDER MACHINE (INCLUDING OPERATOR) - KNOX AREA	86.000 HR		<u></u> !
0050	631.205 SHOULDER MACHINE (INCLUDING OPERATOR) - WALDOBORO & JEFFERSON AREA	20.000 HR	!	<u></u> !
0060	631.205 SHOULDER MACHINE (INCLUDING OPERATOR) - WATERVILLE & GARDINER AREA	4.000 HR	<u></u>	<u></u> !
	Section: 1	I	Total:	
			Total Bid:	
the Contra this contra prices bid ambiguitie organizati represents Bidder ack and that th	g below, the Bidder (1) represents that the Bidder (act, all documents referenced in said Contract, act to construct and/or perform the Work in st in the attached "Schedule of Items", (3) represes related to the documents or the work that had on is the legal entity entering into the resulting that the undersigned is authorized to enter comowledges that the properly completed and sinis offer shall remain open for 30 calendar day or hereby certifies, to the best of its knowledge.	and the site and scope of trict accordance with the tents that the Bidder has gave been discovered by the gontract with the Depart ontractual obligations on being after the date of opening a fater the date of opening	work, (2) does hereby biderms and conditions of tieven the Department not be Bidder, (4) represents the ment if they are awarded behalf of the above-name rovided with the Bid constants.	d and offer to enter into his Contract at the unit ice of any errors or nat the above-named the contract and, (5) d organization.
any agreer bid, and it	ment, participated in any collusion, or otherwi is subsequent contract with the Department. and ink to complete paper bids. Signatures shall	se taken any action in rest	raint of competitive bidd	ling in connection with its
300 pen ui	Paper oran organization shall			
	Signature		Date	
	(Pr	rint Bidder's Name and Ti	tle)	

CTM:	
TEDOCS#	

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Ma	iine.
acting through and by its Department of Transportation (Department), an agency of s	
government with its principal administrative offices located at Child Street, Augusta, Ma	ıine,
with a mailing address at 16 State House Station, Augusta, Maine 04333-0016,	and
(Contrac	tor)
a corporation or other legal entity organized under the laws of the State of, v	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, <u>Add Shoulder Aggregate to Existing Shoulder in Regions 2 & 4</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 October 31, 2024. 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, March 2020 Edition and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will	be	used	l as th
basis for determining the original Contract amount and that the amount	of	this	offer

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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*, *March 2020 Edition*, *Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, and Contract Agreement. 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 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 March 2020 Edition, Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, and Contract Agreement; contained herein for construction of:

Add Shoulder Aggregate to Existing Shoulder in Regions 2 & 4,

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 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*, *March 2020 Edition*, and as addressed in the contract documents.

Second: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2020 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

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

Fourth: 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 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. documents referenced herein.	This award consummates the Contract, and the
		MAINE DEPARTMENT OF TRANSPORTATION
	Date	By: THOMAS ROBERTS MIDCOAST – REGION 2 MANAGER BUREAU OF MAINTENANCE & OPERATIONS

CTM:	
TEDOCS#	

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State o	f Maine,
acting through and by its Department of Transportation (Department), an agency government with its principal administrative offices located at Child Street, Augusta	
with a mailing address at 16 State House Station, Augusta, Maine 04333-06	-
	ntractor)
a corporation or other legal entity organized under the laws of the State ofits principal place of business located at	, with

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, <u>Add Shoulder Aggregate to Existing Shoulder in Regions 2 & 4</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 <u>October 31, 2024</u>. 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, March 2020 Edition* and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will	be used	d as the
basis for determining the original Contract amount and that the amount	of this	offer is

•

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, March 2020 Edition, Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, and Contract Agreement. 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 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 March 2020 Edition, Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, and Contract Agreement; contained herein for construction of:

Add Shoulder Aggregate to Existing Shoulder in Regions 2 & 4,

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 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*, *March 2020 Edition*, and as addressed in the contract documents.

Second: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2020 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

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

Fourth: 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 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. documents referenced herein.	This award consummates the Contract, and the
		MAINE DEPARTMENT OF TRANSPORTATION
	Date	By: THOMAS ROBERTS MIDCOAST – REGION 2 MANAGER BUREAU OF MAINTENANCE & OPERATIONS

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 (Name of the firm bidding the job) (Contractor) a corporation or other legal entity organized under the laws of the State of Maine, with its principal place of business located at (address of the firm bidding the job)

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, <u>WIN 12345.00</u>, for the <u>Hot 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, March 2020 Edition* 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)
\$ (repeat bid here in numerical terms, such as \$102.10)

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, March 2020 Edition, Standard Details March 2020 Edition, 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 March 2020 Edition* (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, March 2020 Edition, Standard Details March 2020 Edition, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of:

WIN 012345.00 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*, *March 2020 Edition*, 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.

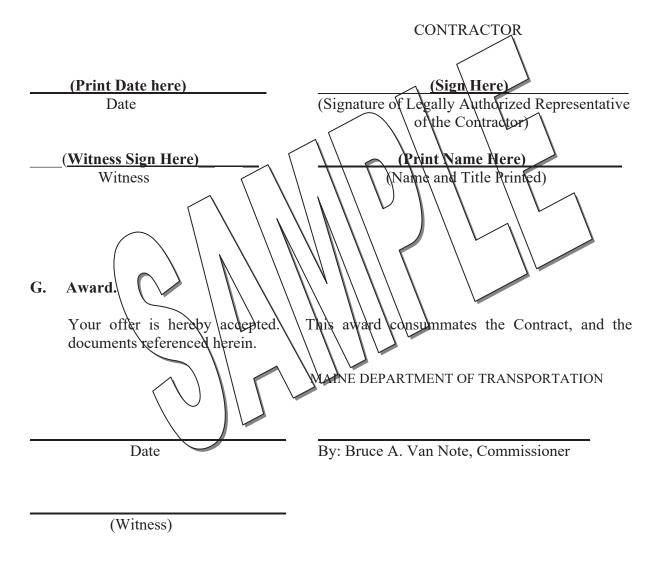
Third: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2020 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

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 with their bid.

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 this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.



State of Maine Department of Labor - Bureau of Labor Standards Augusta, Maine 04333-0045 - Telephone (207) 623-7906

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

2024 Fair Minimum Wage Rates -- Highway & Earth Kennebec County

Occupational Title	Minimum Wage	Minimum Benefit	<u>Total</u>
Brickmasons And Blockmasons	\$32.25	\$4.33	\$36.58
Bulldozer Operator	\$28.00	\$4.56	\$32.56
Carpenter	\$28.56	\$7.04	\$35.60
Cement Masons And Concrete Finisher	\$22.67	\$2.21	\$24.88
Commercial Divers	\$30.00	\$4.62	\$34.62
Construction And Maintenance Painters	\$26.00	\$3.81	\$29.81
Construction Laborer	\$24.00	\$3.00	\$27.00
Crane And Tower Operators	\$33.93	\$9.47	\$43.40
Crushing Grinding And Polishing Machine Operators	\$23.38	\$5.33	\$28.71
Drywall And Ceiling Tile Installers	\$26.20	\$10.62	\$36.82
Earth Drillers - Except Oil And Gas	\$21.29	\$2.53	\$23.82
Electrical Power - Line Installer And Repairers	\$38.93	\$8.91	\$47.84
Electricians	\$33.64	\$18.07	\$51.71
Elevator Installers And Repairers	\$68.38	\$45.29	\$113.67
Excavating And Loading Machine And Dragline Operators	\$26.50	\$3.60	\$30.10
Excavator Operator	\$32.00	\$6.39	\$38.39
Fence Erectors	\$20.00	\$0.00	\$20.00
Flaggers	\$20.00	\$0.38	\$20.38
Floor Layers - Except Carpet/Wood/Hard Tiles	\$27.00	\$6.21	\$33.21
Glaziers	\$37.00	\$6.60	\$43.60
Grader/Scraper Operator	\$22.61	\$12.50	\$35.11
Hazardous Materials Removal Workers	\$21.50	\$1.54	\$23.04
Heating And Air Conditioning And Refrigeration Mechanics And Installers	\$32.00	\$5.46	\$37.46
Heavy And Tractor - Trailer Truck Drivers	\$24.00	\$4.33	\$28.33
Highway Maintenance Workers	\$20.00	\$0.00	\$20.00
Industrial Machinery Mechanics	\$31.25	\$1.01	\$32.26
Industrial Truck And Tractor Operators	\$29.25	\$4.06	\$33.31
Insulation Worker - Mechanical	\$24.05	\$3.59	\$27.64
Ironworker - Ornamental	\$27.75	\$4.50	\$32.25
Light Truck Or Delivery Services Drivers	\$19.00	\$0.33	\$19.33
Millwrights	\$33.75	\$8.78	\$42.53
Mobile Heavy Equipment Mechanics - Except Engines	\$29.00	\$4.89	\$33.89
Operating Engineers And Other Equipment Operators	\$31.50	\$3.93	\$35.43
Paver Operator	\$22.61	\$12.50	\$35.11
Pile-Driver Operators	\$32.75	\$1.95	\$34.70
Pipelayers	\$28.50	\$4.89	\$33.39
Plumbers Pipe Fitters And Steamfitters	\$30.00	\$5.87	\$35.87
Pump Operators - Except Wellhead Pumpers	\$31.49	\$32.08	\$63.57
Radio Cellular And Tower Equipment Installers	\$26.00	\$3.77	\$29.77
Reclaimer Operator	\$22.61	\$12.50	\$35.11
Reinforcing Iron And Rebar Workers	\$22.67	\$25.11	\$47.78
Riggers	\$31.25	\$7.68	\$38.93
Roofers	\$24.00	\$3.35	\$27.35
Screed/Wheelman	\$29.65	\$4.83	\$34.48
Sheet Metal Workers	\$25.25	\$5.68	\$30.93
Structural Iron And Steel Workers	\$30.04	\$7.22	\$37.26
Tapers	\$28.00	\$1.71	\$29.71
Telecommunications Equipment Installers And Repairers - Except Line Installers	\$28.33	\$6.08	\$34.41
Telecommunications Line Installers And Repairers	\$26.00	\$4.83	\$30.83
Tile And Marble Setters	\$27.75	\$6.73	\$34.48

Welders are classified as the trade to which welding is incidental (e.g. welding structural steel is Structural Iron and Steel Worker)

Apprentices – The minimum wage rates for registered apprentices are the rates recognized in the sponsorship agreement for registered apprentices working in the pertinent classification.

For any other specific trade on this project not listed above, contact the Bureau of Labor Standards for further clarification.

Title 26 §1310 requires that a clearly legible statement of all fair minimum wage and benefits rates to be paid the several classes of laborers, workers and mechanics employed on the construction on the public work must be kept posted in a prominent and easily accessible place at the site by each contractor and subcontractor subject to sections 1304 to 1313.

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.

A true copy

Attest: Soft R. Cotner

Scott R. Cotnoir
Wage & Hour Director
Bureau of Labor Standards

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State of Maine Department of Labor - Bureau of Labor Standards Augusta, Maine 04333-0045 - Telephone (207) 623-7906

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

2024 Fair Minimum Wage Rates -- Highway & Earth Lincoln County

Brickmasons And Blockmasons	Occupational Title	Minimum Wage	Minimum Benefit	<u>Total</u>
Campenter	Brickmasons And Blockmasons	\$32.25	\$4.33	\$36.58
Cement Masons And Concrete Finisher	Bulldozer Operator	\$28.00	\$5.85	\$33.85
Sanotime	Carpenter	\$28.56	\$6.47	\$35.03
Construction And Maintenance Painters	Cement Masons And Concrete Finisher	\$22.67	\$2.21	\$24.88
Construction Laborer \$24.00 \$3.00 \$27.00 Crane And Tower Operators \$33.93 \$9.47 \$43.40 Crushing Grinding And Polishing Machine Operators \$22.88 \$5.80 \$29.68 Drywall And Celling Tile Installers \$26.20 \$10.62 \$36.82 Earth Drillers - Except Dil And Gas \$23.00 \$2.53 \$25.53 Electricial Power - Line Installer And Repairers \$38.93 \$8.91 \$47.84 Electricial Power - Line Installer And Repairers \$38.64 \$18.07 \$51.71 Electricians \$33.64 \$18.07 \$51.71 Electricians \$68.38 \$45.29 \$113.67 Excavator Operator \$525.75 \$5.16 \$30.91 Excavator Operator \$31.52 \$5.98 \$37.50 Fence Erectors \$22.00 \$0.00 \$22.00 Flaggers \$20.00 \$0.38 \$20.38 Floor Layers - Except Carpet/Wood/Hard Tiles \$27.00 \$6.21 \$33.21 Glaziers \$27.00 \$6.61 \$33.21 Hag	Commercial Divers	\$30.00	\$4.62	\$34.62
Crane And Tower Operators	Construction And Maintenance Painters	\$26.00	\$3.81	\$29.81
Drywall And Celling Tile Installers	Construction Laborer	\$24.00	\$3.00	\$27.00
Drywall And Ceiling Tile Installers	Crane And Tower Operators	\$33.93	\$9.47	\$43.40
Earth Drillers - Except Oil And Gas	Crushing Grinding And Polishing Machine Operators	\$23.88	\$5.80	\$29.68
Electrical Power - Line Installer And Repairers	Drywall And Ceiling Tile Installers	\$26.20	\$10.62	\$36.82
Electricians	Earth Drillers - Except Oil And Gas	\$23.00	\$2.53	\$25.53
Elevator Installers And Repairers \$68.38	Electrical Power - Line Installer And Repairers	\$38.93	\$8.91	\$47.84
Excavating And Loading Machine And Dragline Operators \$31.52 \$5.98 \$37.50	Electricians	\$33.64	\$18.07	\$51.71
Excavator Operator	Elevator Installers And Repairers	\$68.38	\$45.29	\$113.67
Fence Erectors	Excavating And Loading Machine And Dragline Operators	\$25.75	\$5.16	\$30.91
Fence Erectors	Excavator Operator	\$31.52	\$5.98	\$37.50
Floor Layers - Except Carpet/Wood/Hard Tiles	Fence Erectors		\$0.00	\$22.00
Floor Layers - Except Carpet/Wood/Hard Tiles	Flaggers	\$20.00	\$0.38	\$20.38
Glaziers		\$27.00	\$6.21	\$33.21
Hazardous Materials Removal Workers	Glaziers		\$6.60	\$43.60
Hazardous Materials Removal Workers	Grader/Scraper Operator	\$22.61	\$12.50	\$35.11
Heating And Air Conditioning And Refrigeration Mechanics And Installers				,
Heavy And Tractor - Trailer Truck Drivers		\$32.00	\$5.46	\$37.46
Highway Maintenance Workers				
Industrial Machinery Mechanics			· ·	
Industrial Truck And Tractor Operators	· ,			\$32.26
Ironworker - Ornamental	,	·	· ·	
Ironworker - Ornamental	Insulation Worker - Mechanical	\$24.05	\$3.59	\$27.64
Millwrights \$33.75 \$8.78 \$42.53 Mobile Heavy Equipment Mechanics - Except Engines \$28.00 \$6.50 \$34.50 Operating Engineers And Other Equipment Operators \$30.75 \$3.61 \$34.36 Paver Operator \$27.03 \$6.88 \$33.91 Pile-Driver Operators \$32.75 \$1.95 \$34.70 Pipelayers \$28.50 \$4.43 \$32.93 Plumbers Pipe Fitters And Steamfitters \$30.00 \$5.87 \$35.87 Pump Operators - Except Wellhead Pumpers \$31.49 \$32.08 \$63.57 Radio Cellular And Tower Equipment Installers \$26.00 \$3.77 \$29.77 Reclaimer Operator \$27.03 \$7.68 \$34.71 Reinforcing Iron And Rebar Workers \$22.67 \$25.11 \$47.78 Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheut Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Stee	Ironworker - Ornamental	·		
Millwrights \$33.75 \$8.78 \$42.53 Mobile Heavy Equipment Mechanics - Except Engines \$28.00 \$6.50 \$34.50 Operating Engineers And Other Equipment Operators \$30.75 \$3.61 \$34.36 Paver Operator \$27.03 \$6.88 \$33.91 Pile-Driver Operators \$32.75 \$1.95 \$34.70 Pipelayers \$28.50 \$4.43 \$32.93 Plumbers Pipe Fitters And Steamfitters \$30.00 \$5.87 \$35.87 Pump Operators - Except Wellhead Pumpers \$31.49 \$32.08 \$63.57 Radio Cellular And Tower Equipment Installers \$26.00 \$3.77 \$29.77 Reclaimer Operator \$27.03 \$7.68 \$34.71 Reinforcing Iron And Rebar Workers \$22.67 \$25.11 \$47.78 Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheut Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Stee	Light Truck Or Delivery Services Drivers	\$19.00	\$0.33	\$19.33
Mobile Heavy Equipment Mechanics - Except Engines \$28.00 \$6.50 \$34.50 Operating Engineers And Other Equipment Operators \$30.75 \$3.61 \$34.36 Paver Operator \$27.03 \$6.88 \$33.91 Pile-Driver Operators \$27.03 \$6.88 \$33.91 Pile-Driver Operators \$32.75 \$1.95 \$34.70 Pipelayers \$28.50 \$4.43 \$32.93 Plumbers Pipe Fitters And Steamfitters \$30.00 \$5.87 \$35.87 Pump Operators - Except Wellhead Pumpers \$31.49 \$32.08 \$63.57 Radio Cellular And Tower Equipment Installers \$26.00 \$3.77 \$29.77 Reclaimer Operator \$27.03 \$7.68 \$34.71 Reinforcing Iron And Rebar Workers \$22.67 \$25.11 \$47.78 Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Shet Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron			\$8.78	
Paver Operator				
Paver Operator	Operating Engineers And Other Equipment Operators	\$30.75	\$3.61	\$34.36
Pile-Driver Operators \$32.75 \$1.95 \$34.70 Pipelayers \$28.50 \$4.43 \$32.93 Plumbers Pipe Fitters And Steamfitters \$30.00 \$5.87 \$35.87 Pump Operators - Except Wellhead Pumpers \$31.49 \$32.08 \$63.57 Radio Cellular And Tower Equipment Installers \$26.00 \$3.77 \$29.77 Reclaimer Operator \$27.03 \$7.68 \$34.71 Reinforcing Iron And Rebar Workers \$22.67 \$25.11 \$47.78 Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheet Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Steel Workers \$30.04 \$7.22 \$37.26 Tapers \$28.00 \$1.71 \$29.71 Telecommunications Equipment Installers And Repairers - Except Line Installers \$28.33 \$6.08 \$34.41 Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83				
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Pump Operators - Except Wellhead Pumpers \$31.49 \$32.08 \$63.57 Radio Cellular And Tower Equipment Installers \$26.00 \$3.77 \$29.77 Reclaimer Operator \$27.03 \$7.68 \$34.71 Reinforcing Iron And Rebar Workers \$22.67 \$25.11 \$47.78 Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheet Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Steel Workers \$30.04 \$7.22 \$37.26 Tapers \$28.00 \$1.71 \$29.71 Telecommunications Equipment Installers And Repairers - Except Line Installers \$28.33 \$6.08 \$34.41 Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83				\$32.93
Pump Operators - Except Wellhead Pumpers \$31.49 \$32.08 \$63.57 Radio Cellular And Tower Equipment Installers \$26.00 \$3.77 \$29.77 Reclaimer Operator \$27.03 \$7.68 \$34.71 Reinforcing Iron And Rebar Workers \$22.67 \$25.11 \$47.78 Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheet Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Steel Workers \$30.04 \$7.22 \$37.26 Tapers \$28.00 \$1.71 \$29.71 Telecommunications Equipment Installers And Repairers - Except Line Installers \$28.33 \$6.08 \$34.41 Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83	Plumbers Pipe Fitters And Steamfitters	\$30.00	\$5.87	\$35.87
Reclaimer Operator \$27.03 \$7.68 \$34.71 Reinforcing Iron And Rebar Workers \$22.67 \$25.11 \$47.78 Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheet Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Steel Workers \$30.04 \$7.22 \$37.26 Tapers \$28.00 \$1.71 \$29.71 Telecommunications Equipment Installers And Repairers - Except Line Installers \$28.33 \$6.08 \$34.41 Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83				
Reclaimer Operator \$27.03 \$7.68 \$34.71 Reinforcing Iron And Rebar Workers \$22.67 \$25.11 \$47.78 Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheet Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Steel Workers \$30.04 \$7.22 \$37.26 Tapers \$28.00 \$1.71 \$29.71 Telecommunications Equipment Installers And Repairers - Except Line Installers \$28.33 \$6.08 \$34.41 Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83	Radio Cellular And Tower Equipment Installers	\$26.00	\$3.77	\$29.77
Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheet Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Steel Workers \$30.04 \$7.22 \$37.26 Tapers \$28.00 \$1.71 \$29.71 Telecommunications Equipment Installers And Repairers - Except Line Installers \$28.33 \$6.08 \$34.41 Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83		\$27.03	\$7.68	\$34.71
Riggers \$31.25 \$7.68 \$38.93 Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheet Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Steel Workers \$30.04 \$7.22 \$37.26 Tapers \$28.00 \$1.71 \$29.71 Telecommunications Equipment Installers And Repairers - Except Line Installers \$28.33 \$6.08 \$34.41 Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83	Reinforcing Iron And Rebar Workers	\$22.67	\$25.11	\$47.78
Roofers \$24.00 \$3.35 \$27.35 Screed/Wheelman \$29.00 \$5.58 \$34.58 Sheet Metal Workers \$25.25 \$5.68 \$30.93 Structural Iron And Steel Workers \$30.04 \$7.22 \$37.26 Tapers \$28.00 \$1.71 \$29.71 Telecommunications Equipment Installers And Repairers - Except Line Installers \$28.33 \$6.08 \$34.41 Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83		\$31.25	\$7.68	\$38.93
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Telecommunications Equipment Installers And Repairers - Except Line Installers \$28.33 \$6.08 \$34.41 Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83		·		
Telecommunications Line Installers And Repairers \$26.00 \$4.83 \$30.83	•			
		·		
THE AND Marble Setters \$27.75 \$6.73 \$34.48	Tile And Marble Setters	\$27.75	\$6.73	\$34.48

Welders are classified as the trade to which welding is incidental (e.g. welding structural steel is Structural Iron and Steel Worker)

Apprentices – The minimum wage rates for registered apprentices are the rates recognized in the sponsorship agreement for registered apprentices working in the pertinent classification.

For any other specific trade on this project not listed above, contact the Bureau of Labor Standards for further clarification.

Title 26 §1310 requires that a clearly legible statement of all fair minimum wage and benefits rates to be paid the several classes of laborers, workers and mechanics employed on the construction on the public work must be kept posted in a prominent and easily accessible place at the site by each contractor and subcontractor subject to sections 1304 to 1313.

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.

A true copy

Attest: South R. Cohner

Scott R. Cotnoir Wage & Hour Director Bureau of Labor Standards

Expiration Date: 12-31-2024 Revision Date: 1-3-2024 State of Maine Department of Labor - Bureau of Labor Standards Augusta, Maine 04333-0045 - Telephone (207) 623-7906

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

2024 Fair Minimum Wage Rates -- Highway & Earth Penobscot County

Occupational Title	Minimum Wage	Minimum Benefit	Total
Brickmasons And Blockmasons	\$32.25	\$4.33	\$36.58
Bulldozer Operator	\$28.00	\$6.49	\$34.49
Carpenter	\$27.50	\$6.20	\$33.70
Cement Masons And Concrete Finisher	\$22.67	\$2.21	\$24.88
Commercial Divers	\$30.00	\$4.62	\$34.62
Construction And Maintenance Painters	\$26.00	\$3.81	\$29.81
Construction Laborer	\$22.36	\$2.60	\$24.96
Crane And Tower Operators	\$33.93	\$9.47	\$43.40
Crushing Grinding And Polishing Machine Operators	\$23.00	\$5.21	\$28.21
Drywall And Ceiling Tile Installers	\$26.20	\$10.62	\$36.82
Earth Drillers - Except Oil And Gas	\$21.29	\$2.53	\$23.82
Electrical Power - Line Installer And Repairers	\$38.93	\$8.91	\$47.84
Electricians	\$33.64	\$18.07	\$51.71
Elevator Installers And Repairers	\$68.38	\$45.29	\$113.67
Excavating And Loading Machine And Dragline Operators	\$23.75	\$3.67	\$27.42
Excavator Operator	\$29.75	\$5.10	\$34.85
Fence Erectors	\$20.00	\$0.00	\$20.00
Flaggers	\$18.00	\$0.34	\$18.34
Floor Layers - Except Carpet/Wood/Hard Tiles	\$27.00	\$6.21	\$33.21
Glaziers	\$37.00	\$6.60	\$43.60
Grader/Scraper Operator	\$22.61	\$12.50	\$35.11
Hazardous Materials Removal Workers	\$21.50	\$1.54	\$23.04
Heating And Air Conditioning And Refrigeration Mechanics And Installers	\$32.00	\$5.46	\$37.46
Heavy And Tractor - Trailer Truck Drivers	\$23.75	\$4.67	\$28.42
Highway Maintenance Workers	\$19.00	\$0.00	\$19.00
Industrial Machinery Mechanics	\$31.25	\$1.01	\$32.26
Industrial Truck And Tractor Operators	\$29.25	\$4.06	\$33.31
Insulation Worker - Mechanical	\$24.05	\$3.59	\$27.64
Ironworker - Ornamental	\$27.75	\$4.50	\$32.25
Light Truck Or Delivery Services Drivers	\$19.00	\$0.33	\$19.33
Millwrights	\$33.75	\$8.78	\$42.53
Mobile Heavy Equipment Mechanics - Except Engines	\$22.61	\$12.50	\$35.11
Operating Engineers And Other Equipment Operators	\$22.00	\$1.09	\$23.09
Paver Operator	\$27.03	\$13.85	\$40.88
Pile-Driver Operators	\$32.75	\$1.95	\$34.70
Pipelayers	\$28.50	\$4.43	\$32.93
Plumbers Pipe Fitters And Steamfitters	\$30.00	\$5.87	\$35.87
Pump Operators - Except Wellhead Pumpers	\$31.49	\$32.08	\$63.57
Radio Cellular And Tower Equipment Installers	\$26.00	\$3.77	\$29.77
Reclaimer Operator	\$27.03	\$7.68	\$34.71
Reinforcing Iron And Rebar Workers	\$22.67	\$25.11	\$47.78
Riggers	\$31.25	\$7.68	\$38.93
Roofers	\$24.00	\$3.35	\$27.35
Screed/Wheelman	\$25.40	\$3.01	\$28.41
Sheet Metal Workers	\$25.25	\$5.68	\$30.93
Structural Iron And Steel Workers	\$30.04	\$7.22	\$37.26
Tapers	\$28.00	\$1.71	\$29.71
Telecommunications Equipment Installers And Repairers - Except Line Installers	\$28.33	\$6.08	\$34.41
Telecommunications Line Installers And Repairers	\$26.00	\$4.83	\$30.83
Tile And Marble Setters	\$27.75	\$6.73	\$34.48

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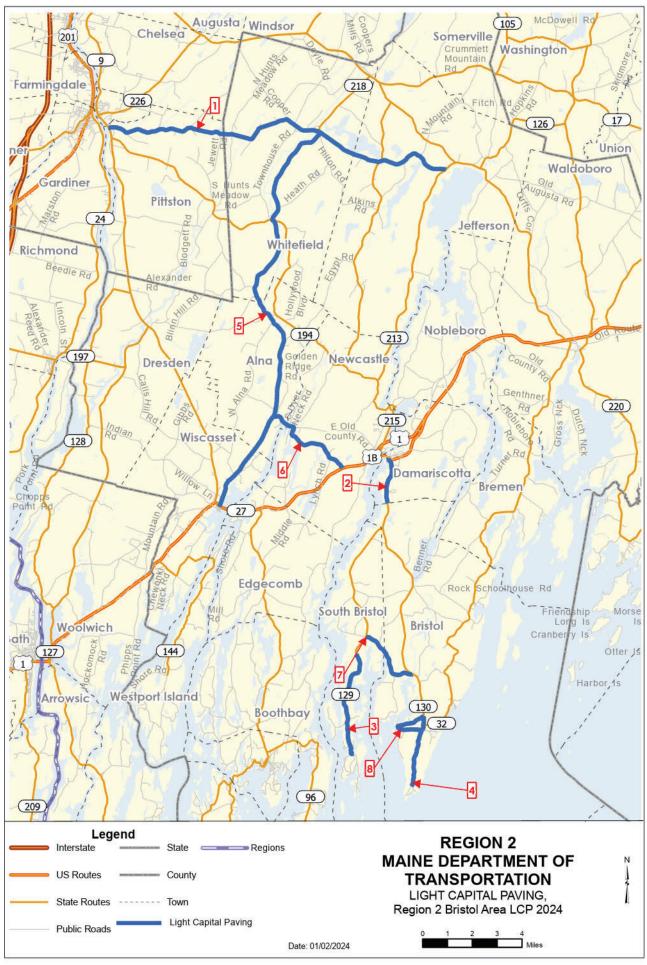
Title 26 §1310 requires that a clearly legible statement of all fair minimum wage and benefits rates to be paid the several classes of laborers, workers and mechanics employed on the construction on the public work must be kept posted in a prominent and easily accessible place at the site by each contractor and subcontractor subject to sections 1304 to 1313.

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.

A true copy

Attest: Scatt R. Cotner

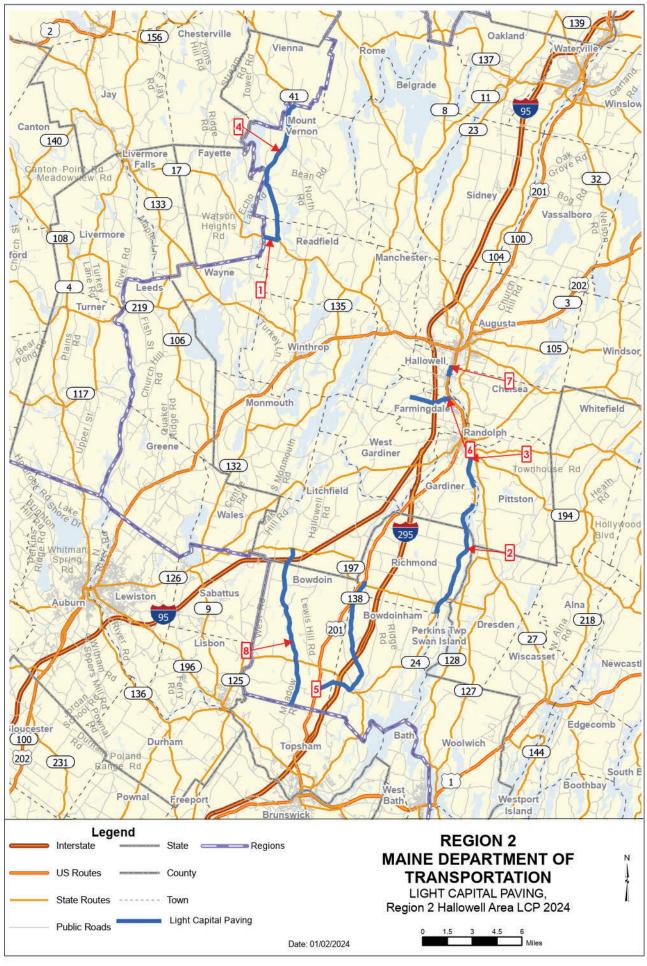
Scott R. Cotnoir Wage & Hour Director Bureau of Labor Standards



WIN 026770.00 Bristol Area LCP 2024

REGION 2-Mid-Coast

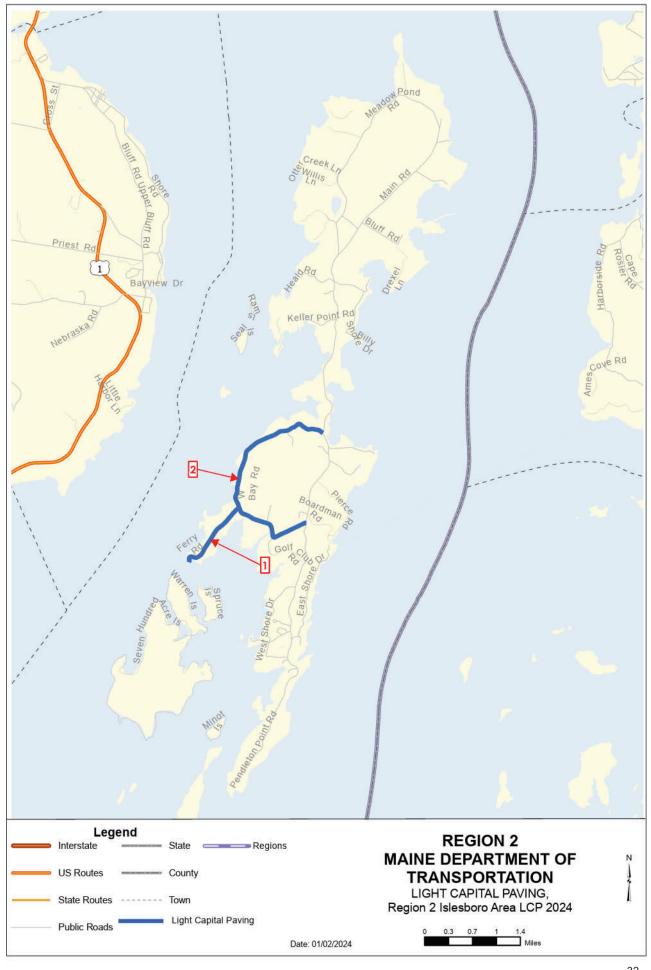
MAP ID	TOWNS	ROUTE	PROJECT DESCRIPTION	MILES	TONS	MIX TYPE
1	Jefferson, Pittston, Whitefield	Route 126	Beginning at Route 27 and extending east 15.10 miles to Route 213. Includes Paved Shoulders (1975 tons).	15.1	9,525	LCP
2	Damariscotta	Route 129	Beginning at Route 1B and extending south 1.91 miles to the Bristol town line. Includes Paved Shoulders (50 tons).	1.91	1,005	LCP
3	South Bristol	Route 129	Beginning 0.02 of a mile north of Tidewater Way and extending south 4.48 miles. Includes Paved Shoulders (20 tons).	4.48	2,260	LCP
4	Bristol	Route 130	Beginning at Huddle Road and extending south 2.96 miles. Includes Paved Shoulders (25 tons).	2.96	1,505	LCP
5	Alna, Whitefield, Wiscasset	Route 218	Beginning at Route 1 and extending north 17.61 miles to Route 126. Includes Paved Shoulders (95 tons). Bridge Milling - Bridge #s 2607 & 2103.	17.61	8,900	LCP
6	Alna, Newcastle	Sheepscot Road	Beginning at Route 218 and extending southeast 4.04 miles to Route 1. Includes Paved Shoulders (40 tons).	4.04	2,060	LCP
7	Bristol, South Bristol	Harrington Road	Beginning at Route 129 and extending southeast 2.80 miles to Route 130. Includes Paved Shoulders (10 tons).	2.8	1,410	LCP
8	Bristol	Huddle Road	Beginning at the south junction of Route 130 and extending west 2.20 miles to the north junction of Route 130. Includes Paved Shoulders (25 tons).	2.2	1,125	LCP
				TOTAL MILES 51.1	TOTAL TONS 27,790	



WIN 026772.00 **Hallowell Area LCP 2024**

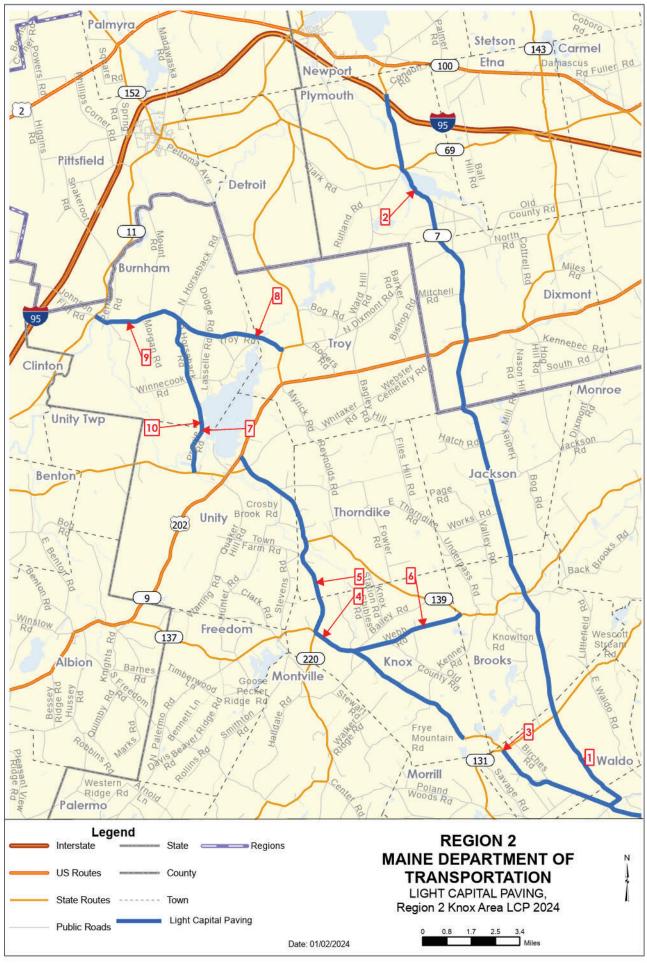
REGION 2-Mid-Coast

MAP ID	TOWNS	ROUTE	PROJECT DESCRIPTION	MILES	TONS	MIX TYPE
1	Readfield	Route 17	Beginning at Route 41 and extending northwest 0.97 of a mile to the Fayette town line. Includes Paved Shoulders (160 tons).	0.97	645	LCP
2	Gardiner, Richmond	Route 24	Beginning at the Bowdoinham town line and extending north 7.55 miles. Includes Paved Shoulders (410 tons). Bridge Milling - Bridge #2568.	7.55	4,185	LCP
3	Gardiner	Route 24	Beginning at Farm Family Lane and extending north 2.15 miles. Includes Paved Shoulders (620 tons).	2.15	1,695	LCP
4	Mount Vernon, Readfield	Route 41	Beginning at Route 17 and extending north 8.99 miles to the Vienna town line. Includes Paved Shoulders (500 tons). Bridge Milling - Bridge #s 2332, 2837, & 2987.	8.99	4,995	LCP
5	Bowdoin, Bowdoinham, Richmond	Route 138	Beginning at Route 201 and extending north 9.48 miles. Includes Paved Shoulders (340 tons). Bridge Milling - Bridge #s 3990 & 3991.	9.48	5,080	LCP
6	Farmingdale, Hallowell	Maple Street	Beginning at the Litchfield Road and extending east 2.56 miles. Includes Paved Shoulders (50 tons).	2.56	1,330	LCP
7	Hallowell	Second Street	Beginning at Winthrop Street and extending north 0.72 of a mile to the Augusta town line. Includes Paved Shoulders (30 tons). Bridge Milling - Bridge #0565.	0.72	390	LCP
8	Bowdoin, Litchfield	Meadow/Litch field Road	Beginning at the Topsham town line and extending north 9.98 miles to Route 197. Includes Paved Shoulders (25 tons). Bridge Milling - Bridge #3498.	9.98	5,015	LCP
				TOTAL MILES 42.4	TOTAL TONS 23,335	



WIN 026774.00 Islesboro Area LCP 2024 REGION 2-Mid-Coast

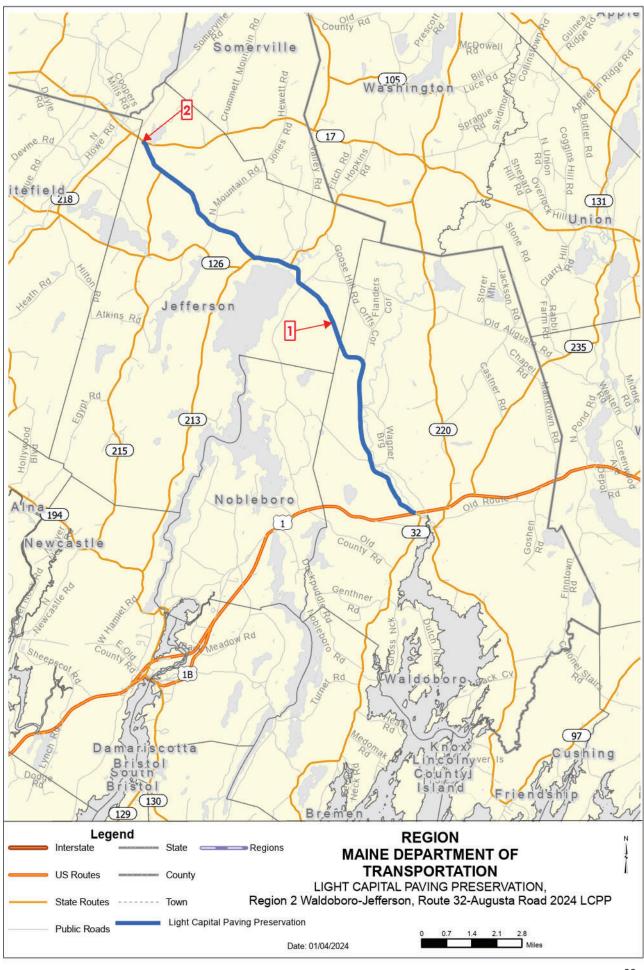
MAP ID	TOWNS	ROUTE	PROJECT DESCRIPTION	MILES	TONS	MIX TYPE
1	Islesboro	Ferry Road	Beginning 1.14 miles south of Mill Creek Road and extending north 1.14 miles. Includes parking areas at Ferry Terminal and Crew Quarters (250 tons).	1.14	820	LCP
2	Islesboro	Mill Creek Road/W. Bay Road	Beginning at the south junction of Main Road and extending northwest 3.39 miles to the north junction of Main Road.	3.39	1,695	LCP
				TOTAL MILES 4.53	TOTAL TONS 2,515	



WIN 026776.00 Knox Area LCP 2024

REGION 2-Mid-Coast, 4-Eastern

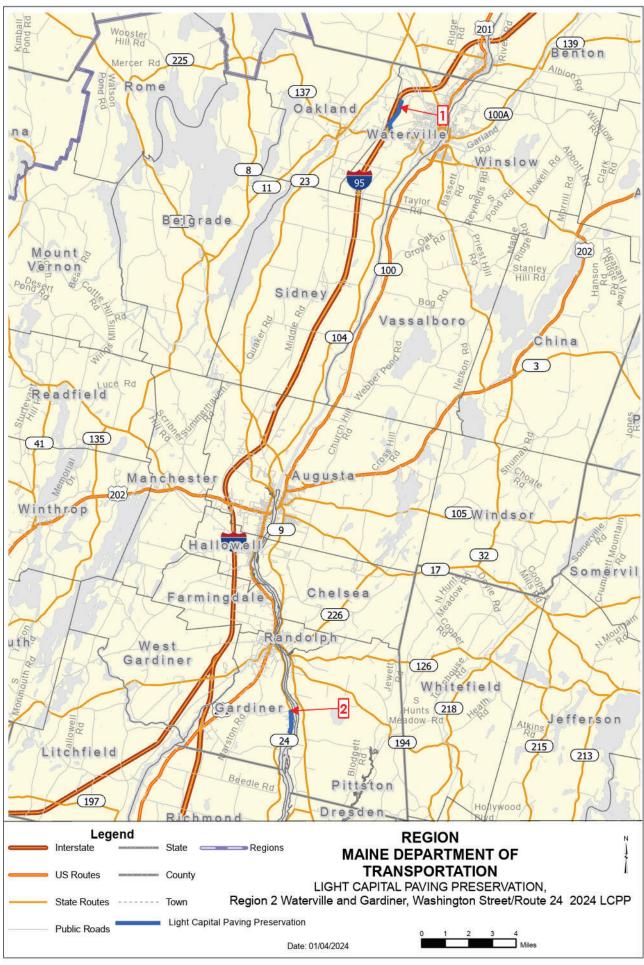
MAP ID	TOWNS	ROUTE	PROJECT DESCRIPTION	MILES	TONS	MIX TYPE
1	Belfast, Brooks, Jackson, Waldo		Beginning at Route 137 and extending north 15.68 miles to the Dixmont town line. Includes Paved Shoulders (3600 tons). Bridge Milling - Bridge #2894.	15.68	11,440	LCP
2	Dixmont, Plymouth	Route 7	Beginning at the Jackson town line and extending north 11.91 miles. Includes Paved Shoulders (1750 tons). Bridge Milling - Bridge #s 2287 & 5960.	11.91	7,705	LCP
3	Belfast, Waldo	Route 137	Beginning at Waldo Station Road and extending northwest 5.96 miles to Route 131. Includes Paved Shoulders (1000 tons). Bridge Milling - Bridge #s 2937 and 2741.	5.96	3,980	LCP
4	Knox	Route 137	Beginning 0.80 of a mile northwest of the Brooks town line and extending northwest 6.58 miles to Route 220. Includes Paved Shoulders and Truck Lanes (630 tons). Bridge Milling - Bridge # 2440.	6.58	3,920	LCP
5	Knox, Thorndike, Unity	Route 220	Beginning at Route 137 and extending north 7.42 miles to Route 9. Includes Paved Shoulders (1800 tons).	7.42	5,510	LCP
6	Brooks, Knox	Webb Road	Beginning at Route 137 and extending east 4.02 miles to Route 139.	4.02	2,010	LCP
7	Unity	Prarie Road	Beginning at Route 139 and extending north 1.67 miles to the Burnham town line. Bridge Milling - Bridge #s 2637 and 2641.	1.67	835	LCP
8	Troy	Burnham Road	Beginning at the Burnham town line and extending east 1.07 miles to Route 220. Bridge Milling - Bridge #5569.	1.07	535	LCP
9	Burnham	Troy Road	Beginning at Route 11 and extending east 6.08 miles to the Troy town line. Bridge Milling - Bridge #5144.	6.08	3,040	LCP
10	Burnham	South Horseback Road	Beginning at the Unity town line and extending north 3.99 miles to Troy Road.	3.99	1,995	LCP
				TOTAL MILES 64.38	TOTAL TONS 40,970	



LIGHT CAPITAL PRESERVATION PAVING (LCPP)

WIN 027340.00 Waldoboro-Jefferson, Route 32-Augusta Road 2024 LCPP REGION 2-Mid-Coast

MAP ID	TOWNS	ROUTE	PROJECT DESCRIPTION	MILES	TONS	MIX TYPE
1	Jefferson, Waldoboro	Route 32	Beginning at Route 1 and extending north 14.21 miles. Includes Shim and Paved Shoulders. (8,400 tons) Bridge Milling - Bridge #s 2378 & 2534.	14.21	15.505	LCP
2	Jefferson	Augusta Road	Beginning at Route 17 and extending south 0.09 of a mile. Includes and Paved Shoulders.	0.09	45	LCP
				TOTAL MILES 14.3	TOTAL TONS 15,550	



LIGHT CAPITAL PRESERVATION PAVING (LCPP)

Waterville and Gardiner, 027338.00 Washington Street/Rout

WIN

Washington Street/Route 24 REGION 2-Mid-Coast 2024 LCPP

MAP ID	TOWNS	ROUTE	PROJECT DESCRIPTION	MILES	TONS	MIX TYPE
2	Gardiner	ST RTE 24	Beginning 0.16 of a mile north of Sherburne Avenue and extending north 1.02 miles. Includes Paved Shoulders. (1,120 ton)	1.02	1,630	LCP
1	Waterville	RD INV 11 50303	Beginning 0.07 of a mile south of Campus Road and extending south 1.54 miles to Route 11. Includes Shim and Paved Shoulders. (770 ton)	1.54	1,540	LCP
				TOTAL MILES 2.56	TOTAL TONS 3,170	

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).]

SPECIAL PROVISIONS SHOULDER REHABILITATION ADD SHOULDER AGGREGATE TO EXISTING SHOULDER

<u>Description</u> This work shall consist of placing shoulder aggregate on existing shoulders. Designated locations are as stated in the bid documents and will follow the LCP operations performed under a separate contract. MaineDOT will furnish and deliver the shoulder aggregate. MaineDOT will grade and compact the new shoulder aggregate.

Equipment The equipment specifications and terms are as follows:

- Shoulder Machine will be a self-propelled
- Minimum 4' hydraulic strike off extension
- Receiving hopper shall be not less than 8.5 ft.
- Hopper capacity shall be not less than 2 cubic yards
- Shoulder Machine will have automation
- Screed shall have hydraulic grade and slope control

Full automation will not be required if the operator can prove sufficient experience to fulfill the Department's requirements.

Schedule The Contactor shall coordinate with the MaineDOT to provide and operate the equipment in conjunction with MaineDOT crews and equipment. The MaineDOT will notify the Contractor at least two weeks prior to when the projected work is scheduled unless circumstances require a more immediate response.

<u>Performance</u> The MaineDOT reserves the right, at the time of delivery, to inspect the equipment and reject because of condition. If rejected, the Contractor shall replace the equipment with another acceptable, equivalent unit. Condition deficiencies may include, but are not limited to, equipment with more than 10,000 hours, equipment that is not OSHA compliant, or equipment with leaks that can get to the pavement, ground or into water bodies. In the case of repetitive breakdowns during operation or if a piece of equipment is unable to run, is unsafe to operate or should not be run as determined by the MaineDOT, the Contractor shall repair the equipment or replace the equipment with another acceptable, equivalent unit. Defect repairs shall begin within 4 hours and be completed in no more than 8 hours, unless waived by Maine DOT.

Operators shall be familiar with the work being performed and have sufficient skill and experience to perform the Contract Work properly. Operators determined by the MaineDOT to be below normal acceptable standards of production or workmanship shall be replaced with acceptable operators immediately. At a minimum, operators shall have sufficient experience, as determined by the Department, within the last five years performing applicable work and performing work in or adjacent to traffic, instream, or as otherwise required. Operators shall have sufficient general knowledge of the related laws, regulations, specifications and practices to make informed decisions regarding compliance. Contractors may be required to demonstrate to the Department's satisfaction that the operator meets the requirements set forth in this contract and is qualified to perform the Work.

If, a Contractor furnishes unsatisfactory equipment or operator, the MaineDOT may issue a written warning. If the Contractor subsequently furnishes unsatisfactory equipment or operator, the MaineDOT reserves the right to immediately terminate the Contract by written Notice of Termination.

<u>Documentation</u> The Contractor shall be required to complete a Daily Rental Report, and must attest to the accuracy of the quantity of equipment, and duration of use. This Report must be signed by a MaineDOT representative and remain on site. If no Report is completed, accepted quantities of equipment rental will be determined by the MaineDOT.

Measurement and Payment Adding Shoulder Aggregate to Existing Shoulders will be measured by the hour to the nearest ¼ hour. Time spent moving to and from the site and servicing and maintaining equipment will not be measured for payment. Work will be measured for payment beginning no earlier than the show up time directed by the MaineDOT and end when Work is done for the day. If scheduled Work is not cancelled prior to 5 pm on the preceding day, the MaineDOT may pay the Contractor for 2 hours for showing up. The accepted quantities of work hours will be paid for at the contract unit price per hour, with no additional payment for overtime.

Award and Contracting After Bid Opening and as a condition for Award of a Contract, the MaineDOT may require an Apparent Successful Bidder to demonstrate to the MaineDOT's satisfaction that the Bidder is responsible and qualified to perform the Work and that the equipment is acceptable to the MaineDOT.

SPECIAL PROVISION <u>SECTION 104</u> GENERAL RIGHTS AND RESPONSIBILITES (Wage Rates)

104.3.8A. Federal Wage Rates and Labor Laws Delete the entire section 104.3.8A.

<u>104.3.8B State Wage Rates and Labor Laws</u> The State Wage Rates enclosed apply to this work. Federal Wage Rates do not apply to this work.

SPECIAL PROVISION SECTION 107 TIME (Contract Time)

The Contractor shall be allowed to commence Work on the Contract provided that the Contract has been awarded and a preconstruction meeting has been held.

The specified Contract Completion date is **October 31, 2024**.

A preconstruction meeting is required to coordinate scheduling of material delivery, Contractor's equipment and personnel, and MaineDOT equipment and personnel.

Once operations commence, Work will continue until an agreed upon time by both the Department and the Contractor.

Typical hours to be worked are 7:00 am to 5:00 pm Monday through Thursday and 7:00 am to 3:00 pm Friday. Factors may change these hours such as breakdowns, inclement weather, or completion of backing up a road early.

The Contractor may have to stop operations if there is no work to perform until there is enough work to continue. The Department and the Contractor shall continually coordinate with scheduling throughout the contract.

No work will be required on Saturdays, Sundays and Holidays.

Mark Sawyer will be the Department's Representative for scheduling the work. His number is (207) 441-2548. He will give the Contractor two weeks' notice prior to work starting.

SPECIAL PROVISIONS ADDITIONS AND REVISIONS TO STANDARD SPECIFICATIONS

SPECIAL PROVISION SECTION 101 CONTRACT INTERPRETATION

<u>101.2 Definitions</u> Add the following:

"MaineDOT The Department of Transportation of the State of Maine, as established by 23 MRSA §4205 et seq. for the administration of Highway, Bridge, and other public Works; acting through the Commissioner and his/her duly authorized representatives."

SPECIAL PROVISION SECTION 102 BIDDING

102.7.1 Location and Time Delete the entire section and replace with the following:

"The Bidder must Deliver its Bid and Bid Guaranty in a sealed envelope to the exact location and before the precise time (as determined by the Department) specified in the Notice to Contractors or any applicable Bid Amendment. The sealed envelope must be labeled with the Bidder's name, the Project location, WIN and Title, and the words "Bid Enclosed". 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 Contract form, and any other Certifications or Bid Requirements listed in the Bid Book. For a related provision, see Section 102.11 - "Bid Responsiveness".

Electronic Bids must be submitted to the appropriate electronic bid system before the precise time (as determined by the Department) specified in the Notice to Contractors or any applicable Bid Amendment."

<u>102.11.1 Non-curable Bid Defects</u> Revise the item on the list of non-curable Bid Defects for which the Department will reject Bids as non-responsive that reads "The Bid is not signed by a duly authorized representative of the Bidder." by replacing it with the following:

"The Bid is not signed by a duly authorized representative of the Bidder.

- Properly submitted electronic bids meet this requirement.
- Paper bids must include either (1) one or more signed copies of the Contract Agreement form or (2) a signed copy of the Schedule of Items."

<u>102.11.1 Non-curable Bid Defects</u> Revise this subsection by removing the words "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." and replacing it with the following:

"The unit price and bid amount is not provided if (1) the item quantity is not one or lump sum or, (2) the lump sum contract price is not provided or, (3) the unit price, bid amount or lump sum price is illegible as determined by the Department."

102.11.2 Curable Bid Defects Revise the section by replacing it with the following:

"Unless the Department waives a curable Bid defect, the Bidder must cure, within the time stated in the written notice by the Department, but not less than 24 hours, all other Bid Defects not listed in Section 102.11.1 - Non-curable Bid Defects that are identified by the Department. Failure to cure such Defects within said time may result in forfeiture of the Bidder's Bid Guaranty. Upon such failure, the Department may take any action in the best interests of the Department, including those set forth in Section 103.6 - Failure to Fulfill Award Conditions.

Such curable Bid Defects include, but are not limited to, the following.

The Bidder signs only one of the Contract Agreement Offer & Award forms.

Missing total sum of the items provided in the Schedule of Items.

The prices or signatures on the Bid or Bid Guaranty are not in ink or other non-erasable substance.

Failure to acknowledge Receipt and consideration of all Bid Amendments.

The Bid includes only one signed Contract Agreement form.

The Bid does not include a signed Contract Agreement form but does include a signed Schedule of Items.

If a submitted bid contains any additional conditions or alternate bidding language, the Bidder may cure the defect by removing all conditions and alternate language or the Department will reject the bid as non-responsive.

All other Defects that do not create a significant question as to the Bidder's total Bid amount or the Bidder's ability to complete the Work within the Contract Time or by the Contract Completion Date as determined by the Department.".

SPECIAL PROVISION SECTION 103 AWARD AND CONTRACTING

103.1.1 Unit Prices Govern Add the following at the end of the paragraph:

"If the item quantity is one and either a unit price or bid amount is not provided, the unit price or bid amount omitted shall be determined mathematically by the Department."

103.5 Award Conditions Replace the first paragraph with the following:

"The Apparent Successful Bidder must provide and/or perform all of the items listed in this Section 103.5 within 14 Days of Receipt of the Notice of Intent to Award. Unless indicated otherwise, all items must be Delivered to the Department's Bureau of Maintenance & Operations."

<u>103.5.4 Execution of Contract By Bidder</u> Delete the entire section and replace with the following:

"The properly completed and signed Contract form provided with the Bid constitutes the Bidder's offer. Once the Department has received the insurance, and any other pre-award items required, the Department will sign and execute the Contract. The point of Contract execution is when the Contractor receives written notice that the contract has been signed by the Department and executed."

SPECIAL PROVISION SECTION 105 GENERAL SCOPE OF WORK

105.2.2 Health and Safety Plan Delete the entire section and replace with the following:

"The Contractor has the authority and responsibility to ensure compliance with all applicable federal, State, and local laws governing safety, health, and sanitation including all applicable laws and regulations of OSHA. The Contactor shall comply with these laws and regulations and ensure compliance by its subcontractors.

The Contractor shall provide all safeguards, safety devices, and protective Equipment and take all other action that is necessary to continuously and effectively protect the safety and health of all persons from hazards related to the Work."

<u>105.3 Traffic Control and Management</u> Delete the entire section and replace with the following:

"The Department will provide traffic control."

<u>105.8.1 Temporary Soil Erosion and Water Pollution Control</u> Delete the entire section and replace with the following:

"The Department will provide soil erosion and water pollution control."

SPECIAL PROVISION SECTION 112 DEFAULT AND TERMINATION

<u>Termination and Failure to Perform</u> The Department may terminate this Contract with or without cause upon 7 days written notice. Termination of the contract shall not relieve the Contractor of its contractual responsibilities for the work completed prior to termination (including warranty obligations), nor shall it relieve the Surety of its obligation for claims arising from the Work or the Contract. The Department will pay for all accepted items of Work completed prior to the date of Termination at agreed upon prices.

If for any reason the Contractor is unable to complete the work in an acceptable manner the Department may give written Notice of Default to the Contractor, which will outline the required remedies. Any delay by the Department in providing a written Notice of Default shall in no way constitute a waiver by the Department of any provision of the Contract. If the Department determines the default is not curable, the notice of default shall also include the date of termination. Termination of the Contract or portion thereof shall not relieve the Contractor of its Contractual responsibilities for the Work completed.

In addition, the Department may enter into an Agreement with another entity for the Completion of the Work, or use such other methods as in the opinion of the Department are required for the Completion of the intent of the Contract in an acceptable and timely manner.

2020 STANDARD DETAIL UPDATES

Standard Details and Standard Detail updates are available at: http://maine.gov/mdot/contractors/publications/standarddetail/

<u>Detail #</u>	<u>Description</u>	Revision Date
502(19)	Bridge Drains	3/17/2023
502(15)	Bridge Drains	3/17/2023
502(20)	Bridge Drains	3/17/2023
502(23)	Bridge Drains	3/17/2023
502(24)	Bridge Drains	3/17/2023
502(25)	Bridge Drains	3/17/2023
502(26)	Bridge Drains	3/17/2023
504(07)	Diaphragm & Crossframe Notes	3/17/2023
507(20)	Steel Approach Railing 3-Bar	2/11/2021
507(21)	Steel Approach Railing 3-Bar	2/11/2021
507(22)	Steel Approach Railing 3-Bar	2/11/2021
507(23)	Steel Approach Railing 3-Bar	2/11/2021
507(27)	Steel Approach Railing	2/11/2021
526(01)	Portable Concrete Barrier	1/14/2021
526(01A)	Portable Concrete Barrier	1/14/2021
526(01B)	Portable Concrete Barrier	1/14/2021
526(02)	Portable Concrete Barrier	1/14/2021
526(02A)	Portable Concrete Barrier	1/14/2021
526(03)	Portable Concrete Barrier	1/14/2021
526(04)	Portable Concrete Barrier	1/14/2021
526(04A)	Portable Concrete Barrier	1/14/2021
526(04B)	Portable Concrete Barrier	1/14/2021
526(05)	Permanent Concrete Barrier	3/17/2023
526(21)	Permanent Concrete Barrier	3/17/2023
526(22)	Concrete Transition Barrier	3/17/2023
526(38)	Concrete Transition Barrier	3/17/2023
526(39)	Texas Classic Rail	3/17/2023
526(55)	Texas Classic Rail	3/17/2023

603(10)	Concrete Pipe Ties	6/10/2021
605(01)	Underdrain	7/8/2022
605(01)	Underdrain Notes	7/8/2022
606(17)	Midway Splice Guardrail Transition	6/10/2022
606(23)	Standard Bridge Transition – Type "1"	2/11/2021
606(24)	Standard Bridge Transition – Type "1A"	2/11/2021
608(02)	Detectable Warnings	6/10/2021
609(09)	Precast Concrete Vertical Curb	2/11/2021
627(07)	Crosswalk	2/22/2022
627(08)	Crosswalk	2/22/2022
643(11)	ATCC Cabinet	12/14/2020
801(11)	Pedestrian Ramp Notes	11/20/2023
801(12)	Pedestrian Ramp Requirements	11/20/2023
801(13)	Ramp Length Table	11/20/2023
801(14)	Parallel Pedestrian Ramp	11/20/2023
801(15)	Perpendicular Pedestrian Ramp – Option 1	11/20/2023
801(16)	Parallel Pedestrian Ramp – Option 2A	11/20/2023
801(17)	Perpendicular Pedestrian Ramp – Option 2A	11/20/2023
801(18)	Parallel Pedestrian Ramp – Option 2B	11/20/2023
801(19)	Perpendicular Pedestrian Ramp – Option 2B	11/20/2023
801(20)	Parallel Pedestrian Ramp – Option 3	11/20/2023
801(21)	Perpendicular Pedestrian Ramp – Option 3	11/20/2023
801(22)	Side Street Pedestrian Ramp	11/20/2023
801(23)	Parallel Pedestrian Ramp – Esplanade	11/20/2023
801(24)	Perpendicular Pedestrian Ramp – Esplanade	11/20/2023
801(25)	Island Crossings	11/20/2023
801(26)	Blended Transition	11/20/2023
801(26)	Blended Transition	1/19/2024
801(27)	Pedestrian Ramp Adjacent to Driveway or Entrance	11/20/2023
802(05)	Roadway Culvert End Slope Treatment	1/03/2017

Supersedes: January 19, 2024

SUPPLEMENTAL SPECIFICATIONS

(Corrections, Additions, & Revisions to Standard Specifications – March 2020)

SECTION 101 CONTRACT INTERPRETATION

101.2 Definitions

Construction Easement revise this definition by removing it in its entirety and replace with; "A right acquired by the Department for a specific use of private property outside of the established Right-of-Way. Examples include but are not limited to Drainage Easements, Construction and Maintenance Easements, and Slope Easements. Construction Easement areas, including Temporary Construction Limits and Temporary Road Limits, outside of the Right-of-Way remain private property. No use other than to access and perform the specified work activity is permitted without written permission of the owner."

Construction Limit Line Remove this definition in its entirety.

<u>Holidays</u> Amend this paragraph by adding "**Juneteenth**" between 'Memorial Day' and 'Independence Day'.

<u>Plans</u> Revise this paragraph by removing "Standard Details, Supplemental Standard Details" from the first sentence.

<u>Project Limits</u> Revise this definition by removing it in its entirety and replacing it with: "Areas within the Right-of-Way, Construction Easements, or Temporary Construction Limits shown on the Plans or otherwise indicated in the Contract. If no Project Limits are indicated in the Contract, the Project Limits shall be determined by the Department. For a related Maine statute, see 23 MRSA § 653. "

Right-Of-Way Revise this definition by removing it in its entirety and replacing it with: "The area of land, property, or interest therein, acquired for or devoted to the Project or other purposes. Portions of the Right-of-Way may be used for storage of materials and equipment and the location of engineering facilities, subject to written approval by the Department."

Amend this Section by adding the following two definitions (that replace Construction Limit Line);

<u>Temporary Construction Limits</u> The area within which the Contractor may access and perform the Physical Work and outside of which Work may not be performed without written authorization by the property owner.

<u>Temporary Road Limits</u> The area within which the Contractor may construct and maintain a temporary detour for maintenance of traffic.

Supersedes: January 19, 2024

SECTION 102 BIDDING

102.11 Bid Responsiveness Revise the paragraph that states

"The Bid is not signed by a duly authorized representative of the Bidder." So that it reads:

"The Bid is not signed by a duly authorized representative of the Bidder.

- Properly submitted electronic bids meet this requirement.
- Paper bids must include at least one signed copy of the Contract Agreement Offer & Award form."

SECTION 103 AWARD AND CONTRACTING

103.3.1 Qualification Requirement for Award Revise this subsection so that it reads:

"103.3.1 Qualification Requirement for Award If the Notice to Contractors lists a Prequalification requirement, the Apparent Successful Bidder must successfully complete the Prequalification process as a condition of Award. The Apparent Successful Bidder who does not already hold an Annual Prequalification shall have 21 days to provide the Department with their Prequal documents or the Department may move on to the next low bidder."

SECTION 104 GENERAL RIGHTS AND RESPONSIBILITIES

- <u>104.2.1 Furnishing of Right-of-Way</u> Revise this subsection by removing it in its entirety and replace with the new subsection:
- <u>"104.2.1 Furnishing of Property Rights</u> The Department will secure all necessary rights to real property within the Project Limits shown on the Right-of-Way Plans that are provided with the Bid Documents. For related provisions, see Sections 104.3.2 Furnishing of Other Property Rights, Licenses and Permits and 105.4.5 Maintenance of Existing Structures. For related definitions, see Construction Easements and Right-of-Way."
- 104.3.2 Furnishing of Other Property Rights, Licenses and Permits Revise this subsection by replacing "104.2.1 Furnishing of Right-of-Way" with "104.2.1 Furnishing of Property Rights".

Supersedes: January 19, 2024

SECTION 105 GENERAL SCOPE OF WORK

105.10.2 Requirements Applicable to All Contracts Under section A, number 2, in the first sentence of the first paragraph, revise this Section by replacing the word "handicap" in two places with the word "disability" so it now reads:

"2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, State that all qualified applicants will receive consideration for employment without regard to race, color, sexual orientation, religious creed, sex, national origin, ancestry, age, physical disability, or mental disability."

SECTION 106 QUALITY

<u>106.6 Acceptance</u> Revise this Subsection by replacing the paragraph beginning with "Acceptance of Hot Mix Asphalt Pavement will be based" with:

"Acceptance of Hot Mix Asphalt Pavement will be based on Method A or C Statistical Acceptance, or Method B or D Acceptance as specified. The method of acceptance for each item is defined in Special Provision, Section 403, Hot Mix Asphalt Pavement. When items of Hot Mix Asphalt Pavement are not so designated, Method A will be utilized whenever there are more than 1000 tons per Hot Mix Asphalt Pavement item, and Method B will be utilized when there are less than or equal to 1000 tons per Hot Mix Asphalt Pavement item."

Revise Subsection "B" by removing it and replacing it with:

"B. Items not designated for Statistical Acceptance will utilize Method B or D Acceptance testing to validate the quality of the material incorporated into the Project. For material paid under Item 403.209 – Method D, or designated to be visually accepted, the Contractor shall provide the Department with a Certification Letter that indicates that the material supplied complies with the Specifications. Test results representative of the certified material shall be attached to the letter.

The Department will randomly sample and test the certified Material for properties noted in Table 1 of Section 502 - Structural Concrete or Table 14 of Section –401.21 Acceptance Method B & D. Material will be subject to rejection as noted in Structural Concrete Section 502.195 - Quality Assurance Method C Concrete or Hot Mix Asphalt, Section 401.2022 Pay Adjustment – Method B & D."

<u>106.7.1 Standard Deviation Method</u> Revise 106.7.1, subsection H by removing the following from the first paragraph:

"Method B: PF = [70 + (Quality Level * 0.33)] * 0.01"

Supersedes: January 19, 2024

<u>106.9.1 Warranty by Contractor</u> Revise the third paragraph of this section so that it reads:

"For a related provision regarding obligations regarding plantings, see section 621.36 – Maintenance Period."

SECTION 107 TIME

<u>107.3.1 General</u> Amend this paragraph by adding "**Juneteenth**" between 'Patriot's Day' and 'the Friday after Thanksgiving'.

SECTION 108 PAYMENT

<u>108.2.3 Mobilization Payments</u> Replace Standard Specification 108.2.3 – Mobilization Payments with the following:

"108.2.3 Mobilization Payments "Mobilization" includes the mobilization and demobilization of all resources as many times as necessary during the Work.

Percent Mobilization Bid will be determined by taking the amount Bid for Mobilization and dividing by the Total Contract Amount less Mobilization. Mob/(Total Contract – Mob).

Payment will be made at the following intervals:

% Mobilization Bid	% Mobilization Paid at Contract Award	% Mobilization Paid after the Department determines 50% of the work is Complete	% Mobilization Paid at Final Acceptance
10% or less	50%	50%	
More than 10% to 15%	33%	33%	34%
More than15% to 20%	25%	25%	50%
More than 20% to 30%	15%	15%	70%
Greater than 30%	10%	10%	80%

<u>108.3 Retainage</u> Revise the third paragraph of this section so that it reads:

I40m 402 102

"Upon <u>Final Acceptance</u>, and determination by the department that there are no claims either by or on the Contractor or Subcontractors; no over payments by the department; no LDs due; and no disincentives due, the Department will reduce Retent to 1% of the original Contract Award amount, or \$100,000, whichever is less, as it deems desirable and prudent."

<u>108.4.1 Price Adjustment for Hot Mix Asphalt</u> Revise this section by removing it in its entirety and replacing it with the following:

<u>"108.4.1 Price Adjustment for Hot Mix Asphalt</u>: For each Contract, a price adjustment for performance graded binder will be made for the following pay items, when the total quantity of Hot Mix Asphalt included in these items is in excess of 500 tons, based on the estimated quantities of these items at the time of bid.

Hat Mir Amhalt Charial Avenue

Item 403.102	Hot Mix Asphalt – Special Areas
Item 403.207	Hot Mix Asphalt - 19 mm
Item 403.2071	Hot Mix Asphalt - 19 mm (Polymer Modified)
Item 403.2072	Hot Mix Asphalt - 19 mm (Asphalt Rich Base)
Item 403.208	Hot Mix Asphalt - 12.5 mm
Item 403.2081	Hot Mix Asphalt - 12.5 mm (Polymer Modified)
Item 403.2084	Hot Mix Asphalt - 12.5 mm (Highly Modified HiMAP)
Item 403.209	Hot Mix Asphalt - 9.5 mm (sidewalks, drives, & incidentals)
Item 403.210	Hot Mix Asphalt - 9.5 mm
Item 403.2101	Hot Mix Asphalt - 9.5 mm (Polymer Modified)
Item 403.2104	Hot Mix Asphalt - 9.5 mm (Thin Lift Surface Treatment)
Item 403.21041	Hot Mix Asphalt - 9.5 mm (Polymer Modified Thin Lift Surface
	Treatment)
Item 403.211	Hot Mix Asphalt – Shim
Item 403.2111	Hot Mix Asphalt - Shim (Polymer Modified)
Item 403.212	Hot Mix Asphalt - 4.75 mm (Shim)
Item 403.213	Hot Mix Asphalt - 12.5 mm (base and intermediate course)
Item 403.2131	Hot Mix Asphalt - 12.5 mm (base and intermediate course
	Polymer Modified)
Item 403.2132	Hot Mix Asphalt - 12.5 mm (Asphalt Rich Base and intermediate
	course)
Item 403.301	Hot Mix Asphalt (Asphalt Rubber Gap-Graded)
Item 461.13	Light Capital Pavement
Item 461.210	9.5 mm HMA - Paver Placed Surface
Item 461.2101	Hot Mix Asphalt - 9.5 mm (Polymer Modified)
Item 461.216	Hot Mix Asphalt (Shim)
Item 462.30	Ultra-Thin Bonded Wearing Course
Item 462.301	Polymer Modified Ultra-Thin Bonded Wearing Course

Price adjustments will be based on the variance in costs for the performance graded binder component of hot mix asphalt. They will be determined as follows:

The quantity of hot mix asphalt for each pay item will be multiplied by the performance graded binder percentages given in the table below times the difference in price between the base price and the period price of asphalt cement. Adjustments will be made upward or downward, as prices increase or decrease.

Item 403.102-6.2% Item 403.207-5.2% Item 403.2071-5.2% Item 403.2072-5.8% Item 403.208-5.6% Item 403.2081–5.6% Item 403.2084 – 6.2% Item 403.209-6.2% Item 403.210-6.2% Item 403.2101-6.2% Item 403.2104-6.2% Item 403.21041-6.2% Item 403.211-6.2% Item 403.2111-6.2% Item 403.212-6.8% Item 403.213-5.6% Item 403.2131-5.6% Item 403.2132-6.2% Item 403.301-6.2% Item 461.13–6.7% Item 461.210 – 6.4% Item 461.2101 – 6.4% Item 461.216 – 6.7% Item 462.30-0.0021 tons/SY Item 462.301-0.0021 tons/SY"

<u>SECTION 110</u> INDEMNIFICATION, BONDING, AND INSURANCE

110.3.9 Administrative & General Provisions Amend this subsection by adding "Automobile Liability" under letter A) Additional Insured to the list of exceptions.

SECTION 206 STRUCTURAL EXCAVATION

<u>206.01 Description</u> – Structural Earth Excavation, Below Grade delete the entire sentence and replace with "shall consist of the removal of excavation required for unknown or unanticipated subsurface condition. See 206.04 – Method of Measurement for pay limits."

<u>206.04 Method of Measurement</u> – <u>Drainage and Minor Structures</u> Paragraph 1, sentence 2, delete the remainder of the sentence beginning with "....provided the maximum allowable..."And replace with: "....in accordance with the following limits:"

- Vertical pay limits:
 - Below a plane parallel with and 12 inches below the bottom of the drainage or minor structure or
 - Below the excavation limits shown in the Bid Documents; whichever is greater.
- Horizontal pay limits The maximum allowable horizontal dimensions shall not exceed those bounded by vertical surfaces 18 inches outside the base, or extreme limits of, the structure, and to the vertical neat lines of underdrain trenches, as shown in the Contract Documents.

SECTION 401 HOT MIX ASPHALT PAVEMENT

401.19 Contractor Quality Control Amend this Section by adding the following to the end: "Failure to comply with the approved QCP will result in work suspension and pay reductions as outlined in Section 106.4.6. The Quality Control Plan Value shall be the total bid value for all items covered by the QCP as identified in Special Provision 403."

SECTION 501 FOUNDATION PILES

501.05 Method of Measurement

c. Piles in Place Revise the third paragraph by replacing the "10" with "20" so that it reads:

Unused pile cutoffs **20** feet or more in length, except those required to accommodate the Contractor's construction method, as discussed herein, will remain the property of the Department and will be stored at a bridge maintenance yard nearest the project. Hauling and unloading of piles will be done by the Contractor or by the Department, depending upon availability of services.

SECTION 502 STRUCTURAL CONCRETE

Supersedes: January 19, 2024

502.09 Forms and Falsework Amend this subsection by adding the subsection title "502.10 <u>Placing Concrete</u>" after section "D" Removal of Forms and False work" and after the paragraph beginning with "2. Forms and False work, including blocking…". So that a new subsection starts and reads:

"502.10 Placing Concrete

A. General Concrete shall not be placed until forms"

<u>502.1701 Quality Control, Method A and B</u> Revise this Section so that the first paragraph and the first sentence of the second paragraph read:

"502.17 Quality Control The Contractor shall control the quality of the concrete through testing, inspection, and practices which shall be described in the QCP, sufficient to assure a product meeting the Contract requirements. The QCP shall meet the requirements of Section 106, Quality, and this specification. No work under this item shall proceed until the QCP is submitted to and approved by the Department. Failure to comply with the approved QCP will result in work suspension and pay reductions as outlined in Section 106.4.6. The Quality Control Plan Value shall be the total bid value for all cast-in-place items covered by the QCP, using the P value listed in Special Provision 502. If no P value is listed, a value of \$350, or bid value per cubic yard, whichever is less, shall be used.

<u>502.1701 Quality Control, Method A and B</u> The QCP shall address all elements that affect the quality of the structural concrete including, but not limited to, the following: "

<u>Section 502.1701, Quality Control</u>, Revise Table 4 of this Subsection by removing it in its entirety and replacing it with:

TABLE 4
METHOD A & B MINIMUM QUALITY CONTROL TESTING REQUIREMENTS *

TEST	TEST METHOD	SAMPLING LOCATION	FREQUENCY
Gradation	AASHTO T-27 & T-11	Stockpile	One set per proposed grading before production. One set every 100 yd ³ (Min. 1 set per month)
Organic Impurities	AASHTO T-21	Stockpile	Once per fine aggregate per year **
% Absorption	AASHTO T-84 & T-85	Stockpile	Once per aggregate per year
Specific Gravity	AASHTO T-84 & T-85	Stockpile	Once per aggregate per year
Total Moisture in Aggregate	AASHTO T-255	Stockpile	One set per day's production
Free Water and Aggregate Wt.	N/A		One per day's production
% Entrained Air	AASHTO T-152	On Project	On first two loads and every third load thereafter

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			provided consistent results are achieved
Compressive Strength	AASHTO T-22	On Project	One set per sublot
Compressive Strength	AASHTO T-22 @ 7days	On Project	One set per sublot

^{*} Additional QC testing will be required any time a process change occurs during a placement, including changes in type or dosage of admixture. Additional testing shall include, but is not limited to, entrained air testing.

502.18, Method of Measurement, Revise Subsection 'F' by removing the word 'transverse' so that it reads: "Saw cut grooving of concrete wearing surfaces, complete and accepted, will be measured for payment as one lump sum."

502.19, Basis of Payment, Revise the third paragraph by removing the word 'transverse' so that it reads: "Saw cut grooving of concrete wearing surfaces will be paid for at the Contract Lump Sum Price, which shall be payment for furnishing all materials, labor, and equipment, including depth gauges and all incidentals, to satisfactorily complete the work."

(Also see 535.24 and 535.25 for related changes)

SECTION 503 REINFORCING STEEL

<u>Section 503.07 Splicing</u> Revise this section by removing the table and following footnote and replacing them with:

Minimum Lap Splice Length (inches)									
	Bar Size								
Bar Type	#3	#4	#5	#6	#7	#8	#9	#10	#11
Plain or Galvanized	16	20	24	29	38	47	59	72	85
Epoxy or Dual Coated	17	24	36	43	56	71	88	107	128
Stainless	19	24	30	36	47	59	73	89	107
Low-carbon Chromium	24	32	39	47	63	78	97	119	142

"The minimum lap splice lengths in the table above are based on the parameters below. When any of these parameters are altered, appropriate minimum lap splice lengths will be as shown on the Plans.

- Normal weight concrete
- Minimum 28-day concrete compressive strength from 4,000 psi to 10,000 psi
- Class B tension lap splice

^{**} If the color produced is a laboratory designation Plate III, then the fine aggregate shall be tested once per month.

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- Minimum center-to-center spacing between bars of 6 inches
- Minimum clear cover of 2 inches
- Nominal reinforcing steel yield strengths
 - Low-carbon Chromium = 100 ksi
 - \circ Stainless = 75 ksi
 - \circ All others = 60 ksi
- Reinforcement with yield strengths greater than 75 ksi shall have beam transverse reinforcement and column ties provided over the required lap splice length in accordancewith the current edition of the AASHTO LRFD Bridge Design Specifications

When lap splices are placed horizontally in an element where the concrete depth below the splice will be 12 inches, or more, the indicated lap splice lengths shall be multiplied by a factor of 1.3."

SHOP APPLIED PROTECTIVE COATING – STEEL

<u>506.13 Surface Preparation</u> Amend this section by adding this paragraph to the end:

"Steel shall meet the requirements of SSPC SP8 Pickling prior to being immersed in the zinc tanks. Verification of the surface preparation shall be included in the QC documentation."

SECTION 523 BEARINGS

<u>523.051 Protective Coating</u> Revise this subsection by removing the paragraph beginning with "Anchor rods shall be galvanized..." and replacing with:

"Anchor rods shall be galvanized. When anchor rods are designated to secure bare unpainted steel or painted steel, a dielectric coating (epoxy or bituminous type coatings are acceptable) shall be applied to the anchor rod and/or adjacent steel to prevent contact between galvanized surfaces and painted or unpainted steel."

<u>523.22 Fabrication</u> Amend this subsection by adding the following: "Elastomeric Bearings shall be fabricated in accordance with AASHTO M251."

SECTION 526 CONCRETE BARRIER

Amend this section by deleting it in its entirety and replacing it with:

"526.01 Description This work shall consist of the furnishing, constructing, erecting, setting, resetting, and removal of concrete barrier and associated elements in accordance with these specifications, the Standard Details, and the lines and grades shown on the Plans or established by the Resident.

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The types of concrete barrier are designated as follows:

<u>Portable Concrete Barrier Type I</u> Double faced removable barrier in accordance with the Standard Details.

Permanent Concrete Barrier Type II Double faced barrier as shown on the Plans.

<u>Permanent Concrete Barrier Type IIIa</u> Single faced barrier 32 inches high in accordance with the Standard Details or as shown on the Plans.

<u>Permanent Concrete Barrier Type IIIb</u> Single faced barrier 42 inches high in accordance with the Standard Details or as shown on the Plans.

<u>Permanent Concrete Transition Barrier</u> Barrier of various heights joining steel bridge rail to steel guardrail in accordance with the Standard Details or as shown on the Plans.

<u>Permanent Texas Classic Rail Barrier</u> Traffic rail or sidewalk rail, in accordance with the Standard Details or as shown on the Plans.

526.02 Materials

a. <u>Concrete</u> Concrete for barriers, both permanent and portable, shall have a design strength of 5,000 psi.

For cast-in-place barrier: The concrete shall be Class LP, in accordance with Standard Specification Section 502, Structural Concrete.

For precast barrier: The concrete shall meet the requirements of Standard Specification 712.061, Structural Precast Concrete Units, except that the stripping strength for precast barriers is 4,000 psi.

- b. <u>Reinforcing Steel</u> Reinforcing steel shall meet the requirements of Section 503, Reinforcing Steel.
- c. <u>Structural Steel</u> Plates and barrier connections shall meet the requirements specified in Standard Specification 504 Structural Steel and shall be hot dip galvanized after fabrication in accordance with Standard Specification 506, Shop Applied Protective Coating Steel
- d. <u>Bolts</u> Bolts shall meet the requirements specified in Section 713.02, High Strength Bolts.
- e. <u>Connecting Pins for Portable Concrete Barrier</u> Portable concrete barriers must be connected using a 1- inch diameter pin. The connecting pin must be smooth, not deformed, i.e., reinforcing bar may not be used, and shall meet the strength requirements of ASTM A449 steel. Materials with greater strength may be used with the approval of the Department.

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f. Anchor Pins for Portable Concrete Barrier Anchoring to concrete or asphalt will be required when specified on the Plans. When required, portable concrete barriers must be anchored using a 1 ½ - inch diameter anchor pin. The anchor pin must be smooth, not deformed, i.e., reinforcing bar may not be used, and shall meet the strength requirements of ASTM A36 steel. Materials with greater strength may be used with the approval of the Department.

g. <u>Device Crashworthiness</u> MaineDOT is transitioning to MASH2016 criteria for Portable Concrete Barrier on the following schedule:

New Portable Concrete Barrier shall be crash tested and/or evaluated to MASH2016 criteria.

Current Portable Concrete Barrier in useful serviceable condition that is successfully tested to NCHRP Report 350 or MASH2009 criteria may be utilized through December 31, 2029.

Other current Portable Concrete Barrier that is deemed acceptable by the Department may be utilized on projects off the National Highway System through December 31, 2024. 526.03 Construction Requirements

Cast-in-place barriers shall be fabricated in accordance with Standard Specification Section 502, Structural Concrete. Precast barriers shall be fabricated in accordance with Standard Specification 534, Precast Structural Concrete.

Concrete finish for permanent barrier shall be rubbed as defined in Standard Specification Section 502, Structural Concrete, 502.13 D2 or an approved equal.

Portable concrete barrier shall be generally free from fins and porous areas and shall present a neat and uniform appearance.

Permanent barrier shall have a protective coating applied in accordance with Standard Specification Section 515, Protective Coating for Concrete Surfaces.

Reflective delineators for concrete median barrier shall meet the requirements of Special Provision 645, Highway Signing.

Preformed Joint Filler shall meet the requirements specified in Subsection 705.01, Preformed Expansion Joint Filler.

Permissible dimensional tolerances for all concrete barriers shall be as follows:

- a. Cross-sectional dimensions shall not vary from design dimensions by more than ¼ inch. The vertical centerline shall not be out of plumb by more than ¼ inch.
- b. Longitudinal dimensions shall not vary from the design dimensions by more than $\frac{1}{4}$ inch per 10 feet of barrier section and shall not exceed $\frac{3}{4}$ inches per section.

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- c. Location of anchoring holes shall not vary by more than ½ inch from the dimensions shown in the concrete barrier details on the Plans.
 - d. Surface straightness shall not vary more than ¼ inch under a 10-foot straightedge.
- e. The barrier shall have no significant cracking. Significant cracking is defined as fractures or cracks passing through the section, or any continuous crack extending for a length of 12 inches or more, regardless of position in the section.

<u>526.04 Method of Measurement</u> Permanent Concrete Barrier Type II, IIIa, IIIb, Texas Classic Rail, and Precast Median Barrier will be measured for payment by lump sum, complete in place.

Portable concrete barrier, both anchored and unanchored will be measured for payment by lump sum. Lump sum measurement will include verification of the installation and removal of all portable concrete at the completion of the Contractor's operations.

The Contractor shall replace sections of portable concrete barrier, including anchored barrier damaged by the traveling public when directed by the Resident. Replacement sections will be measured for payment in accordance with Standard Specification 109.7, Equitable Adjustments to Compensation and Time.

Transition barrier will be measured by each, complete in place.

<u>526.05 Basis of Payment</u> The accepted quantities of Concrete Barrier Type II, IIIa, IIIb, Texas Classic Rail, and Precast Median Barrier will be paid for at the Contract lump sum price for the type specified, complete in place.

The accepted quantities of Portable Concrete Barrier Type I, both anchored and unanchored will be paid for at the Contract lump sum price. Such payment shall be full compensation for furnishing all materials, assembling, moving, resetting, transporting, temporarily storing, removing barrier, furnishing new parts as necessary, and all incidentals necessary to complete the work.

Portable barrier shall become the property of the Contractor upon completion of the use of the barrier on the project and shall be removed from the project site by the Contractor.

Transition barrier will be paid for at the Contract price each, complete in place.

The accepted quantity of all types of concrete barrier, whether portable or permanent, will be paid for at the lump sum or per each price, as applicable, which payment shall be full compensation for all materials, including reinforcing steel, protective coating, reflective delineators, steel plates and hardware, equipment, labor and incidentals required, as necessary, to complete the work.

Payment will be made under:

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	Pay Item	Pay Unit
526.301	Portable Concrete Barrier, Type I	Lump Sum
526.304	Portable Concrete Barrier, Anchored Type I	Lump Sum
526.312	Permanent Concrete Barrier Type II	Lump Sum
526.321	Permanent Concrete Barrier Type IIIa	Lump Sum
526.323	Texas Classic Rail	Lump Sum
526.331	Permanent Concrete Barrier Type IIIb	Lump Sum
526.34	Permanent Concrete Transition Barrier	Each
526.502	Precast Concrete Median Barrier	Lump Sum"

SECTION 527 ENERGY ABSORBING UNIT

527.02 Materials Amend this section by deleting it in its entirety and replacing it with:

"MaineDOT is transitioning to MASH2016 criteria for Work Zone Traffic Control Devices on the following schedule:

Portable Crash Cushions will be crash tested and/or evaluated to MASH2016 criteria by January 1, 2030. Current Category 3 devices in useful serviceable condition that are successfully tested to NCHRP Report 350 or MASH2009 criteria may be utilized through December 31, 2029.

Work Zone Crash Cushions shall be selected from the Department's Qualified Products List of Crash Cushions/Impact Attenuators or approved equal."

SECTION 535 PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE

535.22 Tolerances Amend this section by deleting it in its entirety and replacing it with: "Product dimensional tolerances shall be in conformance with the latest edition of PCI MNL-135, Tolerance Manual for Precast and Prestressed Concrete Construction, as applicable to the particular product (e.g., slab, I-girder, box beam), the Plans, and this Specification. Use Box Beam fabrication tolerances for voided or solid slab beams and use Double Tee tolerances for NEXT beams. In case of dispute, the Fabrication Engineer shall determine the allowable tolerance."

535.24 Installation of Slabs, Beams, and Girders Revise the 5th paragraph by replacing "6.0 and 9.0" to "5.0 and 8.0" so it reads: "Ready mixed grout shall achieve a design compressive strength of 6,000 psi at 28 days, have an entrained air content of between 5.0 and 8.0 percent, be non-shrink, flowable, and contain a non-shrink additive listed on the Department QPL for expansive cements."

535.25, Installation of Precast/Prestressed Deck Panels Revise the 2nd paragraph by replacing "6.0 and 9.0" to "5.0 and 8.0" so it reads: "Ready mixed grout shall achieve a design compressive

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strength of 6,000 psi at 28 days, have an entrained air content of between 5.0 and 8.0 percent, be non-shrink, flowable, and contain a non-shrink additive listed on the Department QPL for expansive cements."

SECTION 606 GUARDRAIL

Amend this section by replacing it with the following:

<u>606.01 Description</u> This work shall consist of furnishing and installing guardrail components in accordance with these specifications and in reasonably close conformity with the lines and grades shown on the plans or as established. Guardrail is designated as:

31" W-Beam Guardrail - Mid-Way Splice

Galvanized steel w-beam, 8" wood or composite offset blocks, galvanized steel posts Thrie Beam

Galvanized steel thrie beam, 8" wood or composite offset blocks, galvanized steel posts

Median guardrail shall consist of two beams of the above types, mounted on single posts.

Bridge mounted guardrail shall consist of furnishing all labor, materials, and equipment necessary to install guardrail as shown on the plans. This work shall also include drilling for and installation of offset blocks if specified, and incidental hardware necessary for satisfactory completion of the work.

Remove and Reset and Remove, Modify, and Reset guardrail shall consist of removing the existing designated guardrail and resetting in a new location as shown on the plans or directed by the Resident. Remove, Modify, and Reset guardrail and Modify guardrail include the following guardrail modifications: Removing plate washers at all posts, except at anchorage assemblies as noted on the Standard Details, adding offset blocks, and other modifications as listed in the Construction Notes or General Notes. Modifications shall conform to the guardrail Standard Details.

Bridge Connection shall consist of the installation and attachment of beam guardrail to the existing bridge. This work shall consist of constructing a concrete end post or modifying an existing end post as required, furnishing, and installing a terminal connector, necessary hardware, and incidentals required to complete the work as shown on the plans. Bridge Transition shall consist of a bridge connection and furnishing and installing guardrail components as shown in the Standard Details.

<u>606.02 Materials</u> Materials shall meet the requirements specified in the following Sections of Division 700 - Materials:

Timber Preservative	708.05
Metal Beam Rail	710.04
Guardrail Posts	710.07
Guardrail Hardware	710.08

Guardrail components shall meet the applicable standards of "A Guide to Standardized Highway Barrier Hardware" prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Task Force 13 Report.

Posts for underdrain delineators shall be "U" channel steel, 8 ft long, 2 ½ lb/ft minimum and have 3/8-inch round holes, 1-inch center to center for a minimum distance of 2 ft from the top of the post.

Reflectorized Flexible Guardrail Markers shall be mounted on all guardrails. A marker shall be mounted onto guardrail posts at the flared guardrail terminal end point and tangent point, both at the leading and trailing ends of each run of guardrail. The marker's flexible posts shall be gray with either silver-white or yellow reflectors (to match the edge line striping) at the tangents, red at leading ends, and green at trailing ends. Whenever the guardrail terminal is not flared, markers will only be required at the terminal end point. These shall be red or green as appropriate. Markers shall be installed on the protected side of guardrail posts unless otherwise approved by the Resident. Reflectorized flexible guardrail markers shall be from the Department's Qualified Products List of Delineators. The marker shall be gray, flexible, durable, and of a non-discoloring material to which 3-inch by 9-inch reflectors shall be applied, and capable of recovering from repeated impacts and meeting MASH 16 requirements. Reflective material shall meet the requirements of Section 719.01 for ASTM D 4956 Type III reflective sheeting. The marker shall be secured to the guardrail post with two fasteners, as shown in the Standard Details.

Reflectorized beam guardrail reflectors shall be mounted on all "w" beam guardrail and shall be either the "butterfly" type or linear delineation system panels. "Butterfly" or linear delineation panels shall be installed at approximately 62.5 foot intervals on tangents (after every tenth post) and 31.25 feet on curves (after every fifth post), and shall be centered on the guardrail beam. On Divided highways, the left-hand delineators shall be yellow and the right-hand delineators shall be silver/ white. On two-way directional highways, the right-hand side will have silver / white reflectors and no reflectorized delineator used on the left. Delineators shall have reflective sheeting that meets or exceeds the requirements of Section 719.01.

"Butterfly" reflectors shall be fabricated from high-impact, ultraviolet & weather resistant thermoplastic. Aluminum, galvanized metal or other materials shall not be used. Reflective sheeting will be applied to only one side of the delineator facing the direction of traffic and shall be centered vertically on the guardrail beam as shown in the Standard Detail 606(7).

Linear delineation system panels shall be 1.5 inches wide by approximately 11 inches nominal length, with a minimum of 5 raised lateral ridges spaced at approximately 2.25 inches. The height of each ridge shall be 0.34 inches with a 45 degree profile and a 0.28 inches radius at the top. Sheeting shall be laminated to thin gauge aluminum with a pre-applied adhesive tape on the back. Panels shall not be installed over seams or bolt heads and shall be centered horizontally on the guardrail beam; linear delineation panels shall be attached to only one guardrail beam. The guardrail beam surface shall be cleaned and prepared according to the manufacturer's instructions. Air temperature and guardrail surface temperature must be a minimum of 50 degrees F (10 C) with rising temperature at the time of installation.

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Exact locations of the either the "butterfly" type or the linear delineation panels shall be approved by the Resident prior to installation.

Single wood post shall be of cedar, white oak, or tamarack, well-seasoned, straight, and sound and have been cut from live trees. The outer and inner bark shall be removed, and all knots trimmed flush with the surface of the post. Posts shall be uniform taper and free of kinks and bends.

Single steel post shall conform to the requirements of Section 710.07 b.

Single steel pipe post shall be galvanized, seamless steel pipe conforming to the requirements of ASTM A120, Schedule No. 40, Standard Weight.

Acceptable multiple mailbox assemblies shall be listed on the Department's Qualified Products List and shall be MASH 16 tested and approved.

Flared and Tangent w-beam guardrail terminals and guardrail offset blocks shall be from the Department's Qualified Products List. Flared terminals shall be installed with a 4 ft offset as shown in the Manufacturer's installation instructions.

Anchorage assemblies used to anchor trailing ends, radius guardrail, or other ends not exposed to traffic shall meet the applicable standards of "A Guide to Standardized Highway Barrier Hardware" prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Task Force 13 Report, Drawing SEW02a.

Existing materials damaged or lost during adjusting, removing and resetting, or removing, modifying, and resetting, shall be replaced by the Contractor without additional compensation. Existing guardrail posts and guardrail beams found to be unfit for reuse shall be replaced when directed by the Resident.

606.03 Posts Posts for guardrail shall be set plumb in holes or they may be driven if suitable driving equipment is used to prevent battering and distorting the post. When posts are driven through pavement, the damaged area around the post shall be repaired with approved bituminous patching. Damage to lighting and signal conduit and conductors shall be repaired by the Contractor.

When set in holes, posts shall be on a stable foundation and the space around the posts, backfilled in layers with suitable material, thoroughly tamped.

The reflectorized flexible guardrail markers shall be set plumb with the reflective surface facing the oncoming traffic. Markers shall be installed on the protected side of guardrail posts. Markers, which become bent or otherwise damaged, shall be removed and replaced with new markers.

Single wood posts shall be set plumb in holes and backfilled in layers with suitable material, thoroughly tamped. The Resident will designate the elevation and shape of the top. The posts, that are not pressure treated, shall be painted two coats of good quality oil base exterior house paint.

Single steel posts shall be set plumb in holes as specified for single wood posts or they may be driven if suitable driving equipment is used to prevent battering and distorting the post.

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Additional bolt holes required in existing posts shall be drilled or punched, but the size of the holes shall not exceed the dimensions given in the Standard Details. Metal around the holes shall be thoroughly cleaned and painted with two coats of approved aluminum rust resistant paint. Holes shall not be burned.

<u>606.04 Rails</u> Brackets and fittings shall be placed and fastened as shown on the plans. Rail beams shall be erected and aligned to provide a smooth, continuous barrier. Beams shall be lapped with the exposed end away from approaching traffic.

End assemblies shall be installed as shown on the plans and shall be securely attached to the rail section and end post.

All bolts shall be of sufficient length to extend beyond the nuts but not more than ½ inch. Nuts shall be drawn tight.

Additional bolt holes required in existing beams shall be drilled or punched, but the size of the holes shall not exceed the dimensions given in the Standard Details. Metal around the holes shall be thoroughly cleaned and painted with two coats of approved aluminum rust resistant paint. Holes shall not be burned.

606.045 Offset Blocks The same offset block material is to be provided for the entire project unless otherwise specified.

<u>606.05 Shoulder Widening</u> At designated locations the existing shoulder of the roadway shall be widened as shown on the plans. All grading, paving, seeding, and other necessary work shall be in accordance with the Specifications for the type work being done.

606.06 Mail Box Post Single wood post shall be installed at the designated location for the support of the mailbox. The multiple mailbox assemblies shall be installed at the designated location in accordance with the Standard Details and as recommended by the Manufacturer. Attachment of the mailbox to the post will be the responsibility of the home or business owner.

606.07 Abraded Surfaces All galvanized surfaces of new guardrail and posts, which have been abraded so that the base metal is exposed, and the threaded portions of all fittings and fasteners and cut ends of bolts shall be cleaned and painted with two coats of approved rust resistant paint.

<u>606.08 Method of Measurement</u> Guardrail will be measured by the linear foot from center to center of end posts along the gradient of the rail except where end connections are made to masonry or steel structures, in which case measurement will be as shown on the plans. When connected to radius rail, measurement will be to the end of the last tangent beam.

Guardrail terminal, reflectorized flexible guardrail marker, terminal end, anchorage assembly, bridge transition, bridge connection, multiple mailbox post, and single post will be measured by each unit of the kind specified and installed.

Widened shoulder will be measured as a unit of grading within the limits shown on the plans.

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Excavation in solid rock for placement of posts will be paid under force account unless otherwise indicated in the Bid Documents.

Reflectorized beam guardrail reflectors ("butterfly" type or linear delineation system panels) when identified by pay item, will be measured for payment by each.

606.09 Basis of Payment The accepted quantities of guardrail will be paid for at the contract unit price per linear foot for the type specified, complete in place. Reflectorized beam guardrail ("butterfly"-type) delineators will not be paid for directly but will be considered incidental to guardrail items. Reflectorized flexible guardrail marker, terminal end, anchorage assembly, bridge transition, bridge connection, multiple mailbox post, and single post will be paid for at the contract unit price each for the kind specified complete in place.

Guardrail terminals will be paid for at the contract price each, complete in place which price shall be full payment for furnishing and installing all components including the terminal section, posts, offset blocks, "w" beam, cable foundation posts, plates and for all incidentals necessary to complete the installation within the limits as shown on the Standard Details or the Manufacturer's installation instructions. Pay limits for a flared terminal will be 37.5 feet. Pay limits for a tangent terminal will be 50 feet. Each guardrail terminal will be clearly marked with the Manufacturer's name and model number to facilitate any future needed repair. Such payment shall also be full compensation for furnishing all material, excavating, backfilling holes, assembling, and all incidentals necessary to complete the work, except that for excavation for posts or anchorages in solid ledge rock, payment will be made under 109.7.5 – Force Account. Type III Retroreflective Adhesive Sheeting shall be applied to the approach buffer end sections and sized to substantially cover the end section. On all roadways, the ends shall be marked with alternating black and retroreflective yellow stripes. The stripes shall be 3 in wide and sloped down at an angle of 45 degrees toward the side on which traffic is to pass the end section. Guardrail terminals shall also include a set of installation drawings supplied to the Resident.

Anchorages to bridge end posts will be part of the bridge work. Connections thereto will be considered included in the unit bid price for guardrail.

Guardrail to be placed on a radius of curvature of 150 ft or less will be paid for under the designated radius pay item for the type guardrail being placed.

Widened shoulder will be paid for at the contract unit price each complete in place and will be full compensation for furnishing and placing, grading and compaction of aggregate subbase and any required fill material.

Adjust guardrail will be paid for at the contract unit price per linear foot and will be full compensation for adjusting to grade. Payment shall also include adjusting guardrail terminals where required.

Modify guardrail will be paid for at the contract unit price per linear foot and will be full compensation for furnishing and installing offset blocks, additional posts, and other specified modifications; removing, modifying, installing, and adjusting to grade existing posts and beams;

removing plate washers and backup plates, and all incidentals necessary to complete the work. Payment shall also include removing and resetting guardrail terminals where required.

Remove and Reset guardrail will be paid for at the contract unit price per linear foot and will be full compensation for removing, transporting, storing, reassembling all parts, necessary cutting, furnishing new parts when necessary, reinstalling at the new location, and all other incidentals necessary to complete the work. Payment shall also include removing and resetting guardrail terminals when required.

Remove, Modify, and Reset guardrail will be paid for at the contract unit price per foot and will be full compensation for the requirements listed in Modify guardrail and Remove and Reset guardrail.

Bridge Connections will be paid for at the contract unit price each. Payment shall include, attaching the connection to the endpost including furnishing and placing concrete and reinforcing steel necessary to construct new endposts if required, furnishing and installing the terminal connector, and all miscellaneous hardware, labor, equipment, and incidentals necessary to complete the work.

Bridge Transitions will be paid for at the contract unit price each. Payment shall include furnishing and installing the thrie beam or "w"-beam terminal connector, doubled beam section, and transition section, where called for, posts, hardware, precast concrete transition curb, and any other necessary materials and labor, including the bridge connection as stated in the previous paragraph.

No payment will be made for guardrail removed, but not reset and all costs for such removal shall be considered incidental to the various contract pay items.

Reflectorized beam guardrail reflectors ("butterfly" type and the linear delineation panels) will not be paid for directly but will be considered incidental to all new guardrail items. The Contractor shall furnish and install either the "butterfly" type or linear delineation panels, at its discretion, for new guardrail items.

Reflectorized beam guardrail reflectors (either "butterfly" type or linear delineation system panels) will be paid for under the applicable pay items for installation in conjunction with Adjust, Modify, Remove and Reset, Remove Modify and Reset guardrail items. The accepted quantity of "butterfly" type or linear delineation system panels will be paid for at the contract unit price each for all work and materials furnished to install, complete in place, including all incidentals necessary to complete the work.

Payment will be made under:

Pay Item		Pay Unit
606.1301	31" W-Beam Guardrail - Mid-Way Splice - Single Faced	Linear Foot
606.1302	31" W-Beam Guardrail - Mid-Way Splice - Double Faced	Linear Foot
606.1303	31" W-Beam Guardrail - Mid-Way Splice, 15' Radius and Less	Linear Foot
606.1304	31" W-Beam Guardrail - Mid-Way Splice, Over 15' Radius	Linear Foot
606.1305	31" W-Beam Guardrail - Mid-Way Splice Flared Terminal	Each
606.1306	31" W-Beam Guardrail - Mid-Way Splice Tangent Terminal	Each

606.1307	Bridge Transition (Asymmetrical) – Type IA	Each
606.1721	Bridge Transition - Type II	Each
606.1722	Bridge Transition - Type II	Each
606.1731	Bridge Connection - Type I	Each
606.1732	Bridge Connection - Type II	Each
606.178	Guardrail Beam	Linear Foot
606.25	Terminal Connector	Each
606.257	Terminal Connector - Thrie Beam	Each
606.259	Anchorage Assembly	Each
606.265	Terminal End-Single Rail - Galvanized Steel	Each
606.266	Terminal End-Single Rail - Corrosion Resistant Steel	Each
606.275	Terminal End-Double Rail - Galvanized Steel	Each
606.276	Terminal End-Double Rail - Corrosion Resistant Steel	Each
606.352	Reflectorized Beam Guardrail Delineators ("Butterfly" type)	Each
606.3521	Linear Delineation System Panel	Each
606.353	Reflectorized Flexible Guardrail Marker	Each
606.354	Remove and Reset Reflectorized Flexible Guardrail Marker	Each
606.356	Underdrain Delineator Post	Each
606.358	Guardrail, Modify	Linear Foot
606.362	Guardrail, Adjust	Linear Foot
606.365	Guardrail, Remove, Modify, and Reset	Linear Foot
606.366	Guardrail, Remove and Reset	Linear Foot
606.367	Replace Unusable Existing Guardrail Posts	Each
606.3671	Replace Unusable Offset Blocks	Each
606.47	Single Wood Post	Each
606.48	Single Galvanized Steel Post	Each
606.50	Single Steel Pipe Post	Each
606.51	Multiple Mailbox Support	Each
606.568	Guardrail, Modify - Double Rail	Linear Foot
606.63	Thrie Beam Rail Beam	Linear Foot
606.64	Guardrail Thrie Beam - Double Rail	Linear Foot
606.65	Guardrail Thrie Beam - Single Rail	Linear Foot
606.66	Terminal End Thrie Beam	Each
606.70	Transition Section - Thrie Beam	Each
606.71	Guardrail Thrie Beam - 15 ft radius and less	Linear Foot
606.72	Guardrail Thrie Beam - over 15 ft radius	Linear Foot
606.73	Guardrail Thrie Beam - Single Rail Bridge Mounted	Linear Foot
606.74	Guardrail - Single Rail Bridge Mounted	Linear Foot
606.753	Widen Shoulder for Low Volume Guardrail End	Each
606.754	Widen Shoulder for Flared Guardrail Terminal	Each
606.78	Low Volume Guardrail End	Each
606.80	Buried-in-Slope Guardrail End	Each
200.00		

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SECTION 608 SIDEWALKS

<u>Section 608.022Detectable Warning Materials Standard</u> Revise this section by removing the last sentence of this section beginning with "Concrete..." and replacing it with "Concrete shall meet the requirements of Section 608.021, Sidewalk Materials, of this specification or may be a prepackaged concrete mix from the Department's Qualified Products List (QPL)."

SECTION 609 CURB

<u>609.02 Materials</u> Revise the paragraph beginning "The Contractor shall submit a concrete mix..." so that it reads:

"The Contractor shall submit a concrete mix design for the Portland Cement Concrete to the Resident, with a minimum designed compressive strength of 3000 psi concrete fill."

609.03 Vertical Stone Curb, Terminal Section and Transition Sections and Portland Cement

Concrete Curb, Terminal Sections and Transition Sections

Revise this section by underlining the section number and title so that it reads in the spec book as:

"609.03 Vertical Stone Curb, Terminal Section and Transition Sections and Portland Cement Concrete Curb, Terminal Sections and Transition Sections"

Revise the last paragraph beginning with "The Contractor may elect..." so that it reads:

"The Contractor may elect to substitute concrete to backfill Stone Curbing or Stone Edging at their option. If the concrete backfill option is elected, the Concrete Fill shall meet the requirements of 609.02. The Contractor shall submit a concrete design for the Portland Cement Concrete, with a minimum designated compressive strength of 3000 PSI meeting the requirements of Class S or Class Fill Concrete. The Contractor may elect to choose a Prepackaged Concrete Mix from the Department's Qualified Products list (QPL). Concrete backfill shall be completed in conformance with a Department supplied concrete backfill detail."

SECTION 610

STONE FILL, RIPRAP, STONE BLANKET, AND STONE DITCH PROTECTION

610.02 Materials Amend this subsection by adding the following to the end of the material list: "Stone Ditch Protection 703.29"

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SECTION 618 SEEDING

618.08 Mulching Revise this Section so that the third sentence reads: "Mulch for Seeding Method Number 1 shall only be cellulous fiber mulch Section 619.04 (b) or straw mulch Section 619.04 (a)."

SECTION 619 MULCH

619.03 General Amend this Section by adding the following sentence to the end: "Straw mulch shall be used in all wetland areas."

SECTION 626

FOUNDATIONS, CONDUIT, AND JUNCTION BOXES FOR HIGHWAY SIGNING, LIGHTING, AND SIGNALS

Section 626.021 Miscellaneous Materials Revise this section by removing the fourth paragraph beginning with "All Concrete for concrete encasement..." and replace it with "All concrete for concrete encasement of conduit shall be Class S or Class Fill concrete in accordance with the applicable requirements of Section 502 – Structural Concrete, or a Prepackaged Concrete Mix from the Department's Qualified Products List (QPL)."

Section 626.031Conduit Revise the fifth paragraph beginning with "After the trench has been..." by removing the last sentence beginning with "Where concrete encasement..." and replacing it with "Where concrete encasement is required around the conduit, the concrete shall meet Class S, Class Fill in accordance with the applicable requirements of Section 502 – Structural Concrete, or a Prepackaged Concrete Mix from the Department's Qualified Products List (QPL)."

<u>626.034 Concrete Foundations</u> Revise this Section by changing '626.037' to '**626.036**' in the Second Paragraph which begins with "Foundations shall consist of cast-in-place...".

Revise the 10th paragraph beginning with "Before placing concrete, the required elbows..." by removing "...in accordance with Standard Specification 633."

626.036 Precast Foundations Revise the last sentence of paragraph one so that it reads: "Construction of precast foundations shall conform to the Standard Details and all requirements of 712.061."

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SECTION 627 PAVEMENT MARKINGS

<u>627.02 Materials</u> Amend this section by adding the following to the existing Specification:

"When pavement marking paint must be applied on pavement with an air temperature between 35 °F and 50 °F, a low temperature waterborne paint may be used upon the Department's approval as noted below.

The Contractor shall submit the following information for Department review and approval at least 10 calendar days prior to application:

The manufacturer and product name of the low temperature waterborne paint

The manufacturer's technical product data sheets

The product's SDS sheets

All required and recommended application specifications for the product

The manufacturer's requirements for temperature, surface preparation, paint thickness and the bead application shall be followed. No additional payment will be made for the use of low temperature waterborne paint. "

<u>627.06 Application</u> Revise this subsection by replacing the paragraph beginning with "On other final pavement markings..." with the following:

"On other final pavement markings and on curb, where the paint is applied by hand painting or spraying, application shall be one uniform covering coat at least 16 mils thick. Before the paint has dried, the glass beads shall be applied by a pressure system that will force the glass beads onto the undried paint as uniformly as possible.

Painted lines and markings shall be applied in accordance with the manufacturer's published recommendations. These recommendations will be supplied to the Resident prior to installation."

Revise this subsection by replacing the paragraph beginning with "If the final reflectivety values are less..." with the following:

The final reflectivity will be acceptable if 90 percent or more of the painted pavement lines and markings meet the specified minimum value. If less than 90 percent of the painted pavement lines and markings meet the specified minimum final reflectivity values, the Contractor shall repaint those areas not meeting required reflectivity at no cost to the Department.

If, after repainting, analysis of the final reflectivity values results in the need for a second repainting, the Contractor will submit in writing a plan of action to meet the reflectivity

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minimums prior to continuing any work. Once the plan has been reviewed and approved by the Department, the Contractor shall reapply at no cost to the Department.

SECTION 637 DUST CONTROL

Revise this section by removing it in its entirety.

SECTION 643 TRAFFIC SIGNALS

643.021 Materials Amend this subsection by adding the following at the end:

"MaineDOT is transitioning to MASH2016 criteria for Work Zone Traffic Control Devices on the following schedule:

Temporary Traffic Control Signals will be crash tested and/or evaluated to MASH2016 criteria by January 1, 2030. Current Category 4 devices in useful serviceable condition that are successfully tested to NCHRP Report 350 or MASH2009 criteria may be utilized through December 31, 2029."

643.023 Traffic Signal Structures Remove the third paragraph and replace it with the following:

"Traffic signal support structures shall be classified as Fatigue Category III if they are located on roads with a speed limit of 35 mph or less, Fatigue Category II if they are located on roads with a speed limit of greater than 35 mph, and Fatigue Category I if noted on the Contract Plans. Fatigue Importance Factors shall be as specified in Table 11.6-1 (Fatigue Importance Factors). Fatigue analyses are not required for span-wire (strain) pole traffic signal support structures with heights of 55 feet or less unless required by the current edition of AASHTO "LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals".

<u>643.09 Service Connection</u> Revise this subsection by removing the paragraph that begins with "Traffic signal services shall have...".

And by removing the paragraphs beginning with "A service ground rod shall be installed..." and "A total of 4, 10' service..." and replace them with "A total of 4, 10' service ground rods shall be installed and properly connected together on the outside of the cabinet foundation. One ground rod shall be located at each corner and shall be either flush or slightly below finished grade. The connection between the ground rod and the ground wire shall be an exothermic connection such as a Cadweld. The ground wire from the interconnected ground rods shall be routed through a conduit in the foundation and into the base of the cabinet".

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<u>SECTION 645</u> HIGHWAY SIGNING

<u>Section 645.023 Sign Support Structures</u>. Under letter "c.", revise the fifth paragraph beginning with "In addition to the required details..." by removing the words "**and foundation**" from the 5th sentence.

<u>Section 645.08 Method of Measurement</u>. Revise the second paragraph beginning with "Bridge-type, cantilever and..." by removing the words "**including the foundation**".

<u>Section 645.09 Basis of Payment</u>. Revise the third paragraph beginning with "The accepted bridge-type, cantilever and..." by removing the word "**foundation**" from the second sentence. Add the following sentence to the end of the paragraph "**Conduits, Junction Boxes, and Foundations will be paid for under Section 626.**"

SECTION 652 MAINTENANCE OF TRAFFIC

652.2.5 Portable Changeable Message Sign Revise the fifth paragraph so it reads:

"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. Messages must be changeable with either a portable electronic device like 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. The cabinet shall be locked at all times that the Contractor is not actively changing the message. The Contractor shall change the password for the controller prior to stationing the PCMS and shall provide the password to the Resident. The password shall be unique per PCMS and secure and shall not be written anywhere in, on, around, or stored in the PCMS."

Amend this Section by adding the following new subsection:

<u>"652.2.6 Device Crashworthiness</u> MaineDOT is transitioning to MASH2016 criteria for Work Zone Traffic Control Devices on the following schedule:

Category 1 (Cones, Drums, Tubular Markers, Flexible Delineators, and similar devices that have little chance if causing windshield penetration, tire damage, or other significant effect on the control or trajectory of a vehicle) – All Category 1 devices will be manufacturer self-certified as MASH2016 by January 1, 2025. Current Category 1 devices in useful serviceable condition that are not self-certified as MASH2016 compliant may be utilized through December 31, 2024.

Category 2 (Barricades, Portable Sign Supports, Category 1 devices with attachments, and similar devices that are not expected to produce significant vehicular velocity change but may be otherwise hazardous) – All Category 2 devices will be crash tested and/or evaluated to

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MASH2016 criteria by January 1, 2025. Current Category 2 devices in useful serviceable condition that are successfully tested to NCHRP Report 350 or MASH2009 criteria may be utilized through December 31, 2024.

Category 3 (Portable Concrete Barrier, Portable Crash Cushions, Truck Mounted Attenuators, Category 2 devices weighing more than 100 pounds, and similar devices that are expected to produce significant vehicular velocity change or other harmful reactions) – All Category 3 devices will be crash tested and/or evaluated to MASH2016 criteria by January 1, 2030. Current Category 3 devices in useful serviceable condition that are successfully tested to NCHRP Report 350 or MASH2009 criteria may be utilized through December 31, 2029. (See Standard Specification 526 for additional Portable Concrete Barrier information).

Category 4 (Trailer Mounted Devices: Arrow Boards, Temporary Traffic Control Signals, Area Lighting, Portable Changeable Message Sign, and other similar devices.) – All Category 4 devices will be crash tested and/or evaluated to MASH2016 criteria by January 1, 2030. Current Category 4 devices in useful serviceable condition that are successfully tested to NCHRP Report 350 or MASH2009 criteria may be utilized through December 31, 2029."

652.3.3 Submittal of Traffic Control Plan Amend this section by adding:

"n. A security plan for any PCMS shall be included. The Contractor shall provide a plan for secure access to the PCMS and protection from unauthorized users. The plan shall have details on securing the cabinets via a lock and password from unauthorized users, password changing protocols, and where the access information will be kept so it can be used in the event of emergency. The Contractor shall not Identify or store passwords in the TCP."

<u>652.4 Flaggers</u> Revise the first paragraph of this section so that it reads:

"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."

SECTION 681 PRECAST AGGREGATE-FILLED, CONCRETE BLOCK GRAVITY WALL

<u>681.08 Basis of Payment</u> Amend this section by adding the Item Number "**681.10**" in front of the item "Precast Aggregate-Filled Concrete Block Gravity Wall" at the end of the section.

SECTION 701 STRUCTURAL CONCRETE RELATED MATERIAL

<u>701.01 Portland Cement and Portland Pozzolan Cement</u> Amend the first sentence of Paragraph 3 by adding "or Type 1L Portland Limestone cement" so that it reads:

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"A Type IP (MS) Portland-pozzolan cement (blended hydraulic cement with moderate sulfate resistance) or Type 1L Portland Limestone cement meeting the requirements of AASHTO M 240, may be used instead of Type II or where Type I Portland cement, meeting the requirements of AASHTO M 85, is allowed."

SECTION 703 AGGREGATES

Add the following to Section 703 - Aggregates

703.01 Fine Aggregate for Concrete Fine aggregate for concrete shall consist of natural sand or, when approved by the Resident, other inert materials with similar characteristics or combinations thereof, having strong, durable particles. Fine aggregate from different sources of supply shall not be mixed or stored in the same pile nor used alternately in the same class of construction or mix without permission of the Resident.

All fine aggregate shall be free from injurious amounts of organic impurities. Should the fine aggregate, when subjected to the colorimetric test for organic impurities, AASHTO T 21, produce a color darker than the reference standard color solution (laboratory designation Plate III), the fine aggregate shall be rejected.

Fine aggregate shall have a sand equivalent value of not less than 75 when tested in accordance with AASHTO T 176.

Fine aggregate sources shall meet the Alkali Silica Reactivity (ASR) requirements of Section 703.0201.

The fineness modulus shall not be less than 2.26 or more than 3.14. If this value is exceeded, the fine aggregate will be rejected unless suitable adjustments are made in proportions of coarse and fine aggregate. The fineness modulus of fine aggregate shall be determined by adding the cumulative percentages of material by weight retained on the following sieves: Nos. 4, 8, 16, 30, 50, 100 and dividing by 100.

Fine aggregate, from an individual source when tested for absorption as specified in AASHTO T 84, shall show an absorption of not more than 2.3 percent.

Sieve	Percentage by Weight
Designation	Passing Square Mesh Sieves
3/8 inch	100
No. 4	95-100
No. 8	80-100
No. 16	50-85
No. 30	25-60
No. 50	10-30
No. 100	2-10
No. 200	0-5.0

703.02 Coarse Aggregate for Concrete Coarse aggregate for concrete shall consist of crushed stone or gravel having hard, strong, durable pieces, free from adherent coatings and of which the composite blend retained on the 3/8 inch sieve shall contain no more than 15 percent, by weight of flat and elongated particles when performed in accordance with test method ASTM D 4791, Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate, using a dimensional ratio of 1:5.

The coarse aggregate from an individual source shall have an absorption no greater than 2.0 percent by weight determined in accordance with AASHTO T 85 modified for weight of sample.

The composite blend shall have a Micro-Deval value of 18.0 percent or less as determined by AASHTO T 327 or not exceed 40 percent loss as determined by AASHTO T 96.

Coarse aggregate sources shall meet the Alkali Silica Reactivity (ASR) requirements of Section 703.0201.

Coarse aggregate shall conform to the requirements of the following table for the size or sizes designated and shall be well graded between the limits specified.

Sieve	Percentage by Weight			
Designation	Passing Square Mesh Sieves			
Grading				LATEX
Aggregate Size	1 inch	3/4 inch	1½ inch	½ inch
2 inch			100	
1½ inch	100		95-100	
1 inch	95-100	100	-	
³ / ₄ inch	-	90-100	35-70	100
½ inch	25-60	-	-	90-100
3/8 inch	-	20-55	10-30	40-70
No. 4	0-10	0-10	0-5	0-15
No. 8	0-5	0-5	-	0-5
No. 16	-	-	-	-
No. 50	-	-	-	-
No. 200	0 - 1.5	0 - 1.5	0 - 1.5	0 - 1.5

703.0201 Alkali Silica Reactive Aggregates All coarse and fine aggregates proposed for use in concrete shall be tested for Alkali Silica Reactivity (ASR) potential under AASHTO T 303 (ASTM C 1260), Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali-Silica Reaction, prior to being accepted for use. Acceptance will be based on testing performed by an accredited independent lab submitted to the Department. Aggregate submittals will be required on a 5-year cycle, unless the source or character of the aggregate in question has changed within 5 years from the last test date.

As per AASHTO T 303 (ASTM C 1260): Use of a particular coarse or fine aggregate will be allowed with no restrictions when the mortar bars made with this aggregate expand less than or equal to 0.10 percent at 30 days from casting. Use of a particular coarse or fine aggregate will be classified

as potentially reactive when the mortar bars made with this aggregate expand greater than 0.10 percent at 30 days from casting. Use of this aggregate will only be allowed with the use of cement-pozzolan blends and/or chemical admixtures that result in mortar bar expansion of less than 0.10 percent at 30 days from casting as tested under ASTM C 1567.

Acceptable pozzolans and chemical admixtures that may be used when an aggregate is classified as potentially reactive include, but are not limited to the following:

- a. Class F Coal Fly Ash meeting the requirements of AASHTO M 295
- b. Ground Granulated Blast Furnace Slag (Grade 100 or 120) meeting the requirements of AASHTO M 302
- c. Densified Silica Fume meeting the requirements of AASHTO M 307
- d. Lithium-based admixtures
- e. Metakaolin

Pozzolans or chemical admixtures required to offset the effects of potentially reactive aggregates will be incorporated into the concrete at no additional cost to the Department.

703.05 Aggregate for Sand Leveling Aggregate for sand leveling shall be sand of hard durable particles free from vegetable matter, lumps or balls of clay and other deleterious substances. The aggregate shall meet the grading requirements of the following table.

Sieve	Percentage by Weight
Designation	Passing Square Mesh Sieves
3/8 inch	85-100
No. 200	0-5.0

703.06 Aggregate for Base and Subbase The following shall apply to Sections (a.) and (c.) below. The material shall have a Micro-Deval value of 25.0 or less as determined by AASHTO T 327. If the Micro- Deval value exceeds 25.0, the Washington State Degradation DOT Test Method T113, Method of Test for Determination of Degradation Value (January 2009 version) shall be performed, except that the test shall be performed on the portion of the sample that passes the ½ in sieve and is retained on the No. 10 sieve. If the material has a Washington Degradation value of less than 15, the material shall be rejected.

The material used in Section (b.) below shall have a Micro-Deval value of 25.0 or less as determined by AASHTO T 327. If the Micro-Deval value exceeds 25.0 the material may be used if it does not exceed 25 percent loss on AASHTO T 96, Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.

Recycled Asphalt Pavement (RAP) shall not be used for or blended with aggregate base or subbase.

a. Aggregate for base, Type A and B shall be crushed ledge or crushed gravel of hard durable particles free from vegetable matter, lumps or balls of clay and other deleterious substances. The gradation of the part that passes a 3 inch sieve shall meet the grading requirements of the following table:

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Sieve	Percentage by Weight Passing Square Mesh Sieves		
Designation	Type A	Type B	
½ inch	45-70	35-75	
1/4 inch	30-55	25-60	
No. 40	0-20	0-25	
No. 200	0-6.0	0-6.0	

At least 50 percent by weight of the material retained on the No. 4 sieve shall have at least one fractured face as tested by AASHTO T 335.

Type A aggregate for base shall only contain particles of rock that will pass the 2 inch square mesh sieve.

Type B aggregate for base shall only contain particles of rock that will pass the 4 inch square mesh sieve.

b. Aggregate for base, Type C shall be crushed ledge or crushed gravel of hard durable particles free from vegetable matter, lumps or balls of clay and other deleterious substances. The material shall meet the grading requirements of the following table:

Sieve Designation	Percentage by Weight Passing Square Mesh Sieves Type C
4 inches	100
3 inches	90-100
2 inches	75-100
1 inch	50-80
½ inch	30-60
No. 4	15-40
No. 200	0-6.0

At least 50 percent by weight of the material coarser than the No. 4 sieve shall have at least one fractured face as tested by AASHTO T 335.

c. Aggregate for subbase shall be sand or gravel of hard durable particles free from vegetable matter, lumps or balls of clay and other deleterious substances. The gradation of the part that passes a 3 inch sieve shall meet the grading requirements of the following table:

Sieve	Percentage by Weight Passing Square Mesh Sieves		
Designation	Type D	Type E	
½ in	35-80		
½ inch	25-65	25-100	
No. 40	0-30	0-50	
No. 200	0-7.0	0-7.0	

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Type D aggregate for subbase gravel may contain up to 50 percent by weight Recycled Concrete Aggregate (RCA). When RCA is used, the portion of the resulting blend of gravel and RCA retained on a ½" square mesh sieve shall contain a total of no more than 5 percent by weight of other recycled materials such as brick, concrete masonry block, or asphalt pavement as determined by visual inspection.

RCA shall be substantially free of wood, metal, plaster, and gypsum board as defined in Note 9 in Section 7.4 of AASHTO M 319. RCA shall also be free of all substances that fall under the category of solid waste or hazardous materials.

Aggregate for subbase shall not contain particles of rock which will not pass the 6 inch square mesh sieve.

703.08 Recycled Asphalt Pavement Recycled asphalt pavement shall consist of salvaged asphalt materials from milled pavements or production waste that has been processed before use to meet the requirements of the job mix formula. It shall be free of winter sand, granular fill, construction debris, or other materials not generally considered asphalt pavement.

703.081 RAP for Asphalt Pavement Recycled Asphalt Pavement (RAP) may be introduced into hot-mix asphalt pavement at percentages approved by the Department according to the MaineDOT Policies and Procedures for HMA Sampling and Testing.

If approved by the Department, the Contractor shall provide documentation stating the source, test results for average residual asphalt content, and stockpile gradations showing RAP materials have been sized to meet the maximum aggregate size requirements of each mix designation. The Department will obtain samples for verification and approval prior to its use.

The maximum allowable percent of RAP shall be determined by the asphalt content, the percent passing the 0.075 mm sieve, the ratio between the percent passing the 0.075 mm sieve and the asphalt content, and Coarse Micro-Deval loss values as tested by the Department.

The maximum percentage of RAP allowable shall be the lowest percentage as determined according to Table 4 below:

Classification	Maximum RAP Percentage Allowed	Asphalt content standard deviation	Percent passing 0.075 mm sieve standard deviation	Percent passing 0.075 mm sieve / asphalt content ratio	Residual aggregate M-D loss value
Class III	10%	≤ 1.0	N/A	≤ 4.0	≤ 18
Class II	20%	≤ 0.5	≤ 1.0	≤ 2.8	
Class I	30%	≤ 0.3	≤ 0.5	≤ 1.8	

Table 4: Maximum Percent RAP According to Test Results

The Department will monitor RAP asphalt content and gradation during production by testing samples from the stockpile at approximately 15,000 T intervals (in terms of mix production). The allowable variance limits (from the numerical average values used for mix designs) for this testing are determined based upon the maximum allowable RAP percentage and are shown below in Table 5.

Table 5: RAP Verification Limits

Classification	Asphalt content (compared to aim)	Percent passing 0.075 mm sieve (compared to aim)
Class III	± 1.5	± 2.0
Class II	± 1.0	± 1.5
Class I	± 0.5	± 0.7

For specification purposes, RAP will be categorized as follows:

Class III – A maximum of 10.0 percent of Class III RAP may be used in any base, intermediate base, surface, or shim mixture. A maximum of 20.0 percent of Class III RAP may be used in hand-placed mixes for item 403.209.

Class II – A maximum of 20.0 percent Class II RAP in any base, binder, surface, or shim course. Class I – A maximum of 20.0 percent Class I RAP may be used in any base, intermediate base, surface, or shim mixture without requiring a change to the specified asphalt binder. A maximum of 30.0 percent Class I RAP may be used in in any base or intermediate base mixture provided that a PG 58-28 or PG 58-34 asphalt binder is used. A maximum of 30.0 percent Class I RAP may be

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used in any surface or shim mixture provided that PG 58-34 asphalt binder is used. Mixtures exceeding 20.0 percent Class I RAP must be evaluated and approved by the Department.

The Contractor may use up to two different RAP sources in any one mix design. The total RAP percentage of the mix shall not exceed the maximum allowed for the highest classification RAP source used (i.e. if a Class I & Class III used, total RAP must not exceed 30.0%). The blended RAP material must meet all the requirements of the classification for which the RAP is entered (i.e. 10% Class III with 20% Class I, blend must meet Class I criteria). The Department may take belt cuts of the blended RAP to verify the material meets these requirements. If the Contractor elects to use more than one RAP source in a design, the Contractor shall provide an acceptable point of sampling blended RAP material from the feed belt.

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.

SECTION 709 REINFORCING STEEL AND WELDED STEEL WIRE FABRIC

709.01 Reinforcing Steel Remove the second paragraph of Section 709.01 of the standard specification beginning with "Low-Carbon, Chromium,..." and replace with the following:

"Low-carbon, chromium, reinforcing steel shall be deformed bars conforming to the requirements of ASTM A1035. Bars shall be Grade 100 and alloy Type CS unless otherwise specified on the Plans."

SECTION 710 FENCE AND GUARDRAIL

710.06 Fence Posts and Braces Revise the first Paragraph so that it reads:

"Wood posts shall be of cedar, white oak, or tamarack or other AWPA approved species, of the diameter or section and length shown on the plans."

Remove the fourth paragraph which starts "That portion of wood posts...".

Revise the paragraph beginning with "Braces shall be of spruce, eastern hemlock ... so that it now reads:

"Braces shall be of spruce, eastern hemlock, Norway pine, pitch pine, or tamarack timbers or other AWPA approved species, or spruce, cedar, tamarack or other AWPA approved species round posts of sufficient length to make a diagonal brace between adjacent posts. All wood posts and braces

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shall be pressure-treated in accordance with AASHTO M 133 and AWPA U1, UC4A Commodity Specification B: Posts. "

710.07 Guardrail Posts Revise this section so that the first sentence of section a. reads:

"a. Wood posts shall be of Norway pine, southern yellow pine, pitch pine, Douglas fir, red pine, white pine, or eastern hemlock or other AWPA approved species."

Revise the next paragraph so that it reads:

Wood posts and offset brackets shall be preservative treated in accordance with the requirements of AASHTO M 133 and AWPA U1, UC4A Commodity Specification B: Posts.

710.08 Guardrail Hardware Revise this subsection by replacing "AASHTO M 298" with "ASTM B695"

SECTION 711 MISCELLANEOUS BRIDGE MATERIAL

711.06 Stud Shear Connector Anchors and Fasteners Amend this section by deleting it in its entirety and replacing it with:

"Shear connectors shall meet the dimensional tolerances of Figure 9.1 of the ANSI/AASHTO/AWS D1.5 Bridge Welding Code (D1.5 Code). Shear connectors, anchors and fasteners shall meet the material requirements of Section 9 of the D1.5 Code. Shear connectors shall meet the mechanical property requirements of Table 9.1, Type B of the D1.5 Code. Anchors and fasteners shall meet the mechanical property requirements of Table 9.1 of the D1.5 Code, Type A."

SECTION 712 MISCELLANEOUS HIGHWAY MATERIAL

<u>712.061 Structural Precast Units</u> Amend this section by adding the following sentence to the end of the first paragraph of the Construction subsection:

"Facilities certified by NPCA or PCI shall provide to the Fabrication Engineer a copy of their annual audit to include deficiency reports and corrective actions."

Revise this section by changing the letter "b" of ASTM C1611 of the <u>Concrete Testing</u> subsection so that it reads:

"b. Air content shall be 5.0% to 8.0%."

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SECTION 713 STRUCTURAL STEEL AND RELATED MATERIAL

Section 713.02 High Strength Bolts

Revise the second sentence of this subsection so that it reads "Nuts shall meet the requirement of ASTM A563". Revise the third sentence of this subsection so that it reads "Circular and beveled washers shall conform to the requirement of ASTM F436".

SECTION 718 TRAFFIC SIGNALS MATERIAL

718.03 Signal Mounting Amend the paragraph beginning with "All trunions, brackets and..." by adding "For polycarbonate signal heads with more than 3 sections or requiring mounting extensions greater than 12 inches in length, reinforcing plates shall be used to reinforce the housings at the point of attachment." to the end of the paragraph.

718.08 Controller Cabinet Revise this subsection by replacing the paragraph beginning with "The cabinet shall be supplied with LED light panels..." on or about page 7-66 with "The cabinet shall be supplied with white LED light panels which shall automatically illuminate via a door open switch whenever one of the four main cabinet doors are opened for the ground mount cabinet or two main doors for the side of pole cabinet. The ground mounted cabinet shall contain four LED light panels per side totaling eight panels for the cabinet; one panel each at the top and bottom portion of the front side and back side on the Control side and Power/Auxiliary side of the cabinet. Each light panel shall produce a minimum of 250 lumens for a total minimum lumen output of 2000 lumens with all eight panels illuminated. The minimum output per side would be 1000 lumens. The LED panels shall be protected by a clear shatterproof shield. The side of pole mounted cabinet shall contain four light panels; one at the top of the rack assembly and one at the bottom rack assembly on each side of the cabinet.

A second door open status switch per door shall activate a controller input to log a report event that one of the doors was opened. All door open status switches shall be connected to the same controller input. For the ground mount cabinet, there shall be two switches on each of the four main doors. For the side-of-pole mount cabinet, there shall be two switches on each of the two main doors."

Revise this subsection by replacing the paragraph beginning with "The cabinet shall be supplied with a generator panel ..." on or about page 7-68 with:

"The cabinet shall be supplied with a generator panel. The generator panel shall consist of a manual transfer switch and a twist-lock connector for generator hookup. The transfer switch knob and twist-lock connector shall be located inside a stainless steel enclosure with a separate lockable door accessed with a Corbin #2 key. The unit shall be mounted on the left, exterior of the control side wall of the ground mount cabinet a minimum of 36" above the surrounding grade and on the lower left side of the pole mounted cabinet. The generator transfer switch shall be a Reliance C30A1N Signa Series or approved equal. "

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Revise this subsection by removing the following from the paragraph beginning with "The ground mounted cabinet shall be supplied and installed with an electric service meter socket trim and electrical service disconnect switch ..." on or about page 7-69: "(removed: thus preventing that space from being used either by equipment supplied as part of the project, or future equipment that would be installed in the rack system. Joe indicated that he would add this language to the detail so it is covered.)".

Revise this subsection by replacing the following in the paragraph beginning with "The Contractor shall reconfigure the default user name..." on or around page 7-70; "MaineDOT IT" with "MaineDOT Traffic Division".

In the paragraph beginning with "Tests shall be conducted by the contractor..." on or around page 7-73, amend this subsection by removing "in the state of Maine and" after "The facility shall be".

Amend this Section by adding the following subsection:

<u>718.13 Field Monitoring Unit (FMU)</u> This item of work shall conform to this specification. This item shall consist of furnishing and installing a Field Monitoring Unit (FMU) and software, as well as all needed accessories required for a full and complete installation, including but not limited to power adapters, Ethernet cables, and interface cables, as described herein.

Where applicable, communications from MaineDOT's cloud-based Central Management System (CMS) to the on-street traffic signal controllers shall be made through fiber optic interconnect cable connected back to existing internet connections and/or the Field Monitoring Unit (FMU). The Contractor shall furnish and install all materials necessary for a complete and operational fiber optic interconnection to all project intersections as shown on the plans. All connections to the CMS cloud-based system shall be via a secure VPN network.

The FMU shall be the only remote connection device used by isolated intersections to connect to the cloud-based system. All connections shall be encrypted VPN tunnels. The Contractor shall coordinate all configuration settings with MaineDOT IT and the Engineer.

The FMU central web based interface shall be a separate element from the CMS.

MATERIALS: The materials for this work shall conform to the following requirements:

- 1. The work under this item specifies the requirements for the FMU. The FMU shall operate independent of the brand/type of intersection controller deployed in the ATC traffic cabinet.
- 2. The FMU shall conform to the following requirements:
 - 2.1 The FMU shall function correctly between -34 degrees C and +74 degrees C.
 - 2.2 The FMU shall be provided with appropriately rated connectors that allows the FMU to be exchanged by unplugging connectors, without tools.
 - 2.3 The FMU shall monitor and log all ATC Controller and ATC cabinet faults and or alarms.

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- 2.4 The FMU shall be wired directly to the ATC cabinet.
- 2.5 The FMU shall have an internal cellular modem running at 4G LTE.
 - 2.5.1 The Cellular modem shall be designed to be replaced / upgraded to 5G service when available.
- 2.6 The FMU shall incorporate an integrated GPS and cell modem.
- 2.7 The configuration of the FMU shall be accomplished by accessing the internal web server with a browser. It shall be possible to configure the FMU without any special software.
- 2.8 The FMU shall be powered via a standard 120V input power.
- 2.9 The FMU shall allow for the routing of the controller configuration packets to and from the controller (either by Ethernet or serial communications) for any type of controller utilized by the MaineDOT. In this way it shall be possible to configure the controller and utilize the controller specific software to interrogate the controller, and the FMU shall provide the communications pipe which allows this to be accomplished.
- 2.10 The FMU shall, within the size limitations above, include a battery and battery charging/monitoring circuit, to allow the FMU to function correctly even when all power to the intersection has failed. The battery shall continue to power the FMU for a minimum of 5 hours after all power has failed to the intersection.
- 2.11 The FMU shall incorporate an integrated GPS which will allow the FMU to geolocate itself on the FMU management software map, without configuration.
- 2.12 The FMU shall operate without requiring a static IP address. The only configuration required at the FMU is to enter the URL of where the FMU management software is hosted.
- 2.13 In the event that the cell service is interrupted or is not available, the FMU shall store any events that occur in internal memory and forward these events automatically to the FMU management software when the cell service is restored. In this way, a complete record of events at the device can be maintained even if cell service is interrupted for a period. The system will store 5000 events.
- 2.14 The FMU shall utilize HTTP and HTTPS protocols, and XML data structures, for communication with the FMU management software. In this way the data will be open for future expansion and competition. The use of secret proprietary protocols is not permitted.
- 2.15 The FMU shall include Ethernet communications via an Ethernet Port with RJ45 connector.
- 2.16 The FMU shall include weather proof antennas.

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3. Map Display FMU Management Software

- 3.1 The FMU shall include a scrollable, zoomable map display, with the intersections and other monitored devices shown as representative icons on the map. The map shall include the ability to see the intersections using Google Streetview.
- 3.2 The alarm status of the intersection shall be clearly indicated on the icon on the map, so that the user can see at a glance which intersections are in alarm.
- 3.3 The map display shall also include a list of intersections, with the number and priority of alarms indicated on the list. Intersections in high priority alarm shall be moved to the top of the list, followed by medium priority, low priority and then finally by intersections not in alarm.
- 3.4 The icons shall change to be able to clearly indicate if an intersection is offline.
- 3.5 Clicking on the icon on the map shall expose a box with the current parameters of the intersection shown.
- 3.6 The default map display position and zoom shall be configurable by user, so that the user's view will default to show the intersections that the user is responsible for managing.
- 3.7 The map view shall have the ability to show Google traffic overlays on the map.

4. Intersection Detail Display FMU Management Software

- 4.1 It shall be possible to drill down, either from the map icon or from the list, to a device level detail for the intersection, which as a minimum shall display the following parameters:
 - 4.1.1 The alarm status, with priority indicated, and a text description of the alarm (if an alarm is present for this device).
 - 4.1.2 The time since the last communication with the device
 - 4.1.3 The following parameters (real time now values, minimum for the day values, maximum for the day values, and average for the day values)
 - 4.1.3.1 The AC mains voltage (value)
 - 4.1.3.2 The battery back-up voltage (value)
 - 4.1.3.3 The cabinet temperature (value)
 - 4.1.3.4 The cabinet humidity (value)
 - 4.1.3.5 The presence of AC power (OK or Fail)
 - 4.1.3.6 The flashing status of the intersection (OK or Flashing)
 - 4.1.3.7 Stop Time status (OK or Stop Time Active)

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- 4.1.3.8 The cabinet door status (Open or Closed)
- 4.1.3.9 The intersection fan status (Fan On or Fan off)
- 4.1.4 It shall be possible to view graphs of each of the value parameters in graphical form, over the recent two-week period. This includes real time graphs of:
 - 4.1.4.1 The AC mains voltage
 - 4.1.4.2 The battery back-up voltage
 - 4.1.4.3 The cabinet temperature
 - 4.1.4.4 The cabinet humidity

5. Diagnostics and Log Display FMU Management Software

- 5.1 From the device level detail within the FMU management software, it shall be possible to drill down to get the raw data; the error logs; and the communications logs to allow a technician to fault-find problems.
- 5.2 It shall be possible to filter the logs by Device; by Device Type and/or by Group as well as between dates.
- 5.3 It shall be possible to print these selected logs to a local printer or a PDF file.
- 5.4 It shall be possible to export these logs to Excel on the local computer for further analysis.

6. Alarms FMU Management Software

- 6.1 The FMU management software shall have a comprehensive alarm generation capability
- 6.2 It shall be possible to configure alarms to be generated on any parameter becoming out of tolerance, including analog values, digital values and enumerated values.
- 6.3 Alarms shall be configurable to be of Low, High or Critical Priority.
- 6.4 The alarm priority shall be displayed throughout the FMU management software, on all displays, using color codes such as red-critical; yellow high; and amber-low to indicate the priority of the alarm.
- 6.5 The current active alarms shall be accessible for view via an expandable window, to see which alarms are active and when the alarm occurred. The highest priority alarms shall rise to the top of the list.

7. Alerts FMU Management Software

7.1 The FMU management software shall have comprehensive alerting capability, to enable the response personnel to be notified when an abnormal situation has occurred.

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- 7.2 It shall be possible to configure alerts to one or more personnel for each alarm. This will cause, as selected, an SMS and/or an email to be sent to the person when an alarm occurs.
- 7.3 The alert shall be configurable to optionally send via email and/or via SMS a message when an alarm clears.
- 7.4 The intention is that the FMU management software provides the alerts to the user in near real time. The SMS and email shall be issued within 30 seconds of the occurrence of event which results in an alert being issued.

8. Hosting and Connectivity and Service FMU / FMU Management Software

- 8.1 The contractor shall supply the FMU with the FMU manufacturers 10 year options for Connectivity and Service, as part of the purchase price. The Connectivity and Service agreement shall include at a minimum:
 - 8.1.1 Cellular Connectivity
 - 8.1.2 No cellular overage charges
 - 8.1.3 Extended warranty on the hardware for the period of the Connectivity and Service Agreement
 - 8.1.4 Over-the-air software updates
 - 8.1.5 Over-the-air security updates
 - 8.1.6 Future Connected Vehicles Service

SECTION 720

STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS

720.12 Wood Sign Posts Revise the first sentence so that it reads:

Wood sign posts shall be rectangular, straight and sound timber, cut from live growing native spruce, red pine, hemlock, cedar trees or other AWPA approved species, free from loose knots or other structurally weakening defects of importance, such as shake or holes or heart rot.

Revise the third paragraph that starts with "When pressure treated..." so that it reads:

All sign posts shall be pressure-treated in accordance with AASHTO M 133 and AWPA Standard U1, UC4A, Commodity Specification A: Sawn Products.