

Janet T. Mills GOVERNOR STATE OF MAINE DEPARTMENT OF TRANSPORTATION 16 STATE HOUSE STATION AUGUSTA, MAINE 04333-0016

Bruce A. Van Note

February 20, 2025 Subject: Cyclical Pavement Resurfacing State WIN: 028194.00 Location: Naples, Casco & Poland **Amendment No. 4**

Dear Sir/Ms.:

Make the Following changes to the Bid Book:

Item 461.2101 has been amended to 461.210. Per the attached Special Provision 403 revision, the use of a polymer modified binder meeting the requirements of the Special Provision 461 is still required.

Remove Pages 17-20 titled Schedule of Items dated 1/23/2025 and **Replace** with the attached Schedule of Items dated February 4, 2025.

Remove Pages 44-52 titled Construction Notes dated December 31, 2024 and **Replace** with the attached Construction Notes dated February 7, 2025.

Remove Pages 117-118 titled Special Provision Section 403 dated January 8, 2025 and **Replace** with the attached Special Provision Section 403 dated January 31, 2025.

Remove Pages 123-124 titled Special Provision Section 461 dated December 20, 2019 and **Replace** with the attached Special Provision Section 461 dated February 3, 2025

Consider these changes and information prior to submitting your bid on February 26, 2025.

Sincerely,

Lige Machingell

George M. A. Macdougall P.E. Contracts & Specifications Engineer

Maine Department of Transportation

Proposal Schedule of Items

Page 1 of 4

 Proposal ID:
 028194.00
 Project(s):
 028194.00

 SECTION:
 1
 HIGHWAY ITEMS

Alt Mbr ID:

Alt Set ID:

Contractor: _____

Proposal L ine	Item ID	Approximate	Unit Price	Bid Amount
Number	Description	Quantity and Units	Dollars Cents	Dollars Cents
0010	202.2023 REMOVING PAVEMENT SURFACE -	580.000 SY		!
0020	MEDIUM CUT DRUM 202.203	2,100.000		1
0030	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	250.000 T	!	
0040	403.213 HOT MIX ASPHALT 12.5 MM BASE	20.000 T	<u> </u>	<u> </u>
0050	409.15 BITUMINOUS TACK COAT - APPLIED	11,300.000 G	!	<u> </u>
0060	411.10 UNTREATED AGGREGATE SURFACE COURSE (TRUCK MEASURE)	840.000 CY	!	!
0070	424.386 MASTIC FOR ASPHALTIC PLUG JOINT REPLACEMENT, >1.25 INCH	60.000 LF	!	!
0080	461.210 9.5 MM HMA - CYCLICAL PAVEMENT RESURFACING	7,720.000 T	<u> </u>	!
0090	461.216 HOT MIX ASPHALT (SHIMMING)	5,000.000 T	!	<u> </u>
0100	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	2.000 EA	!	!
0110	606.1305 31" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	2.000 EA	<u> </u>	!
0120	606.178 GUARDRAIL BEAM	90.000 LF	!	

Maine Department of Transportation

Proposal Schedule of Items

Page 2 of 4

 Proposal ID: 028194.00
 Project(s): 028194.00

 SECTION: 1
 HIGHWAY ITEMS

 Alt Set ID:
 Alt Mbr ID:

Contractor:

Proposal	Item ID	Approximate	Unit Price	Bid Amount
Number	Description	Quantity and Units	Dollars Cents	Dollars Cents
0130	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	4.000 EA	<u> </u>	<u> </u>
0140	606.362 GUARDRAIL ADJUSTED	1,910.000 LF	l	!
0150	606.366 GUARDRAIL, REMOVE & RESET	1,050.000 LF	!	!
0160	615.10 DIRTY BORROW	690.000 CY	l	!
0170	618.14 SEEDING METHOD NUMBER 2	603.000 UN	!	!
0180	619.12 MULCH	603.000 UN	!	!
0190	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	165,605.000 LF	!	. <u> </u>
0200	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	450.000 SF	!	. <u> </u>
0210	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	165,605.000 LF	!	. <u> </u>
0220	629.05 HAND LABOR, STRAIGHT TIME	25.000 HR	!	!
0230	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	50.000 HR	<u> </u>	. <u> </u>
0240	631.133 SKID STEER (INCLUDING OPERATOR)	10.000 HR		

2/4/2025

Maine Department of Transportation

Proposal Schedule of Items

Page 3 of 4

Proposal ID: 028194.00 Project(s): 028194.00 SECTION: 1 HIGHWAY ITEMS Alt Mbr ID:

Alt Set ID:

Contractor:

Proposal Line	Item ID	Approximate	Unit Price	Bid Amount
Number	Description	Quantity and Units	Dollars Cents	Dollars Cents
0250	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	100.000 HR	!	<u> </u>
0260	631.212 SMALL PAVEMENT GRINDER (INCLUDING OPERATOR)	15.000 HR	<u> </u>	!
0270	639.19 FIELD OFFICE TYPE B	1.000 EA	!	!
0280	652.33 DRUM	130.000 EA	!	!
0290	652.34 CONE	350.000 EA	!	!
0300	652.35 CONSTRUCTION SIGNS	2,130.000 SF	<u> </u>	!
0310	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	85.000 CD	!	<u> </u>
0320	652.38 FLAGGER	2,310.000 HR	!	!
0330	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	3.000 EA	<u> </u>	<u> </u>
0340	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM		!
0350	659.10 MOBILIZATION	LUMP SUM		<u> </u>
	Section: 1		Total:	!

2/4/2025

Total Bid:

SPECIAL PROVISION						
	<u>SECTION 403</u> HOT MIX ASPHALT					
Desc. Of	Grad	Item	Total	No. Of	Comp. Notes	
Course	Design.	Number	Thick	Layers		
		<u>Cyclical</u>	Pavement Re	<u>surfacing</u>		
	Travelway	<u>, Turn Lane,</u>	Sideroads, &	Shoulders (As	Indicated)	
Wearing	9.5 mm	461.210	3/4"	1	2,4,24,30,43	
Shim	6.3 mm	461.216	variable	1/more	4,25,30,43	
	<u>1 ¼" Mil</u>	l & Cyclical I	Pavement Res	urfacing - Brid	<u>lge #2201</u>	
		Travelway of	<u>& Shoulders (</u>	<u>As Indicated)</u>		
Wearing	9.5 mm	461.210	3/4"	1	2,4,24,30,43	
Shim	6.3 mm	461.216	variable	1/more	4,25,30,43	
		<u>Shoulder R</u>	epair Areas (A	<u>As Indicated)</u>		
Wearing	9.5 mm	461.210	3/4"	1	2,4,24,30	
Shim	6.3 mm	461.216	variable	1/more	4,25,30	
Base	12.5 mm	403.213	2"	1	4,10,30,31,32,52	
<u>S</u>	<u>pot Shims, (</u>	Catch Basin/S	Structure Adju	istment Areas	(As Directed)	
Shim	6.3 mm	461.216	variable	1/more	4,25,30	
	Drives, Misc. (As Directed)					
Wearing	9.5 mm	403.209	1"	1/more	3,20,30	

COMPLEMENTARY NOTES

- 2. The required PGAB shall be a storage-stable, homogeneous, polymer modified asphalt binder that meets **PG 64E-28** grading requirements in AASHTO M 332. All polymer modified asphalt grades utilized on the Project shall be treated with an approved liquid anti-strip. PG binders shall be treated either at the asphalt source terminal with the required dose rate on the delivery documentation, or at the hot mix asphalt plant utilizing a system integrated with the plants controls that will introduce a minimum 0.50 percent anti-strip by weight of asphalt binder used unless a rate is otherwise recommended by the anti-strip manufacturer. The PGAB and anti-strip blend shall meet the **PG 64E-28** requirements. The Contractor shall provide supporting test data showing the PGAB and anti-strip blend meet the required criteria.
- 3. The aggregate qualities shall meet the design traffic level of <3 million ESALS for mix placed under this contract. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at <u>65 gyrations</u>.
- 4. The aggregate qualities shall meet the design traffic level of 3 to <10 million ESALS for mix placed under this contract. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at <u>65 gyrations</u>.
- 10. Section 106.6 Acceptance, (2) **Method D** as specified Section 401.21 Quality Assurance Methods B and D. The Contractor may request a contract modification to change to testing method "C" prior to work starting on this item.
- 20. The combined aggregate gradation required for this item shall be classified as a 9.5mm Thin Lift Mixture (TLM) mixture, using the Aggregate Gradation Control Points as defined in 703.09.
- 24. See Special Provision 461 Cyclical Pavement Resurfacing
- 25. See Special Provision 461 Cyclical Pavement Resurfacing (6.3 mm NMAS Mixture)

- 30. The incentive/disincentive provisions for density shall not apply. Rollers shall meet the requirements of this special provision. The use of an oscillating steel roller shall be required to compact all mixtures pavements placed on <u>bridge decks</u>.
- 31. A dedicated Quality Control Technician (QCT) is **not** required during placement of HMA under this contract. However, a daily paving report, summarizing the mixture type, mixture temperature, equipment used, environmental conditions, and number of roller passes, shall be recorded and signed by a **NETTCP Certified Paving Inspector acting as the Contractor's representative** and presented to the Department's representative by the **end of the working day.**
- 32. An additional **3-5 ton** vibratory roller shall be required for the compaction of the new Hot Mix Asphalt Pavement on all shoulders being replaced.
- 43. The Department shall profile railroad and bridge approaches every 10 feet along the roadway center line and edge of travelways, out to a match point at a minimum of 75 feet from the structure, to determine the approach pavement taper, elevations, and pavement removal or shim requirements. This work shall be accomplished in cooperation with the Contractor by means of conventional surveying equipment or blocking and string lines as cooperatively determined by the Contractor and Department. At minimum, the survey work will be completed 10 days prior to milling and/or paving operations.
- 52. A tack coat of a RS-1, Item #409.15 shall be applied along the longitudinal construction joint vertical face as well as all horizontal surfaces in areas where the shoulders are being widened or replaced. The rate of application shall be approximately 0.03 to 0.05 G/SY.

Tack Coat

A tack coat of emulsified asphalt, RS-1, RS-1h, CRS-1 or CRS-1h, Item 409.15 shall be applied to any existing pavement at a rate of approximately 0.030 gal/yd², and on milled pavement approximately 0.05 gal/yd² prior to placing a new course. A fog coat of emulsified asphalt shall be applied between shim /base courses and surface course as well as to any bridge membrane prior to the placement of HMA layers at a rate not to exceed 0.030 gal/yd². Tack used will be **paid for at the contract unit price** for Item 409.15 Bituminous Tack Coat.

202.2023 Removing Pavement Surface-Medium Cut Drum

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Side</u>	Comment
77+65		77+81	Lt/Rt	Bridge Approach
77+81		79+21	Lt/Rt	Bridge Deck
79+21		79+35	Lt/Rt	Bridge Approach

202.203 Pavement Butt Joints

Station	Side	Comments
10+00	Lt/Rt	Begin Project
561+68	Lt/Rt	End Project
Description	<u>Qty</u>	
Paved Drives	74	

X
74
26
24

403.209 Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Incidentals)

Description	<u>Qty</u>
Paved Drives	74
Commercial Drives	26
Gravel Drives	160

403.213 Hot Mix Asphalt 12.5 mm Base

Station	to	Station	Side	Comment
13+65		14+15	Lt	Shoulders
247+50		248+50	Lt	
250+75		251+00	Lt	
541+15		541+65	Lt	
542+75		543+00	Lt	
91+60		92+00	Rt	
248+80		249+00	Rt	
386+90		387+10	Rt	

411.10 Untreated Aggregate Surface Course, Truck Measure

Description Gravel Drives		<u>Otv</u> 160	
Edge of Pave	ment		
Station	<u>to</u>	Station	<u>Side</u>
44 + 00		49+00	Lt
81+00		82+00	Lt
88+00		97+00	Lt
105+00		106 + 00	Lt
132+00		142+00	Lt
145+00		165+00	Lt
181+00		189+00	Lt
262+00		264+00	Lt
410+00		420+00	Lt
435+00		456+00	Lt
495+00		497+00	Lt
14+00		19+00	Rt
24+00		39+00	Rt
47+50		48 + 00	Rt
87+50		95+00	Rt
127+00		140 + 00	Rt
180+00		192+00	Rt
214+00		219+00	Rt
223+00		227+00	Rt
300+00		301+00	Rt
369+00		373+00	Rt
407 + 00		410+00	Rt
465+00		468 + 00	Rt
472+00		472+50	Rt
513+00		517+00	Rt
525+00		540+00	Rt
548+00		549+00	Rt

424.386 Mastic for Asphaltic Plug Joint Replacement

Station	Side	<u>Comment</u>
77+21	$\overline{Lt/Rt}$	Bridge Joint
79+21	Lt/Rt	Bridge Joint

461.210 9.5mm Hot Mix Asphalt Cyclical Pavement Resurfacing

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Side</u>	<u>Comment</u>
10+00		561+68	Lt/Rt	Travelway, Shoulders, and
				Side Roads

All side roads shall be paved approximately 5' in from the gutter line or as directed by the Resident.

461.216 Hot Mix Asphalt Shimming-6.3mm

<u>Station</u>	<u>to</u>	Station	<u>Side</u>	<u>Comment</u>
10+00		561+68	Lt/Rt	Travelway/Turn Lanes
Spot Shims				
<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Side</u>	<u>Comment</u>
210+00		212+00	Lt	Travelway
249+00		250 + 50	Lt	Travelway
258+00		265+00	Lt	Travelway
267+50		269+00	Lt	Travelway
336+00		337+00	Lt	Travelway
353+00		355+00	Lt	Travelway
364+00		366+50	Lt	Travelway
402+00		408 + 00	Lt	Travelway
444 + 00		446+00	Lt	Travelway
451+00		452+00	Lt	Travelway
520+00		522+00	Lt	Travelway
556+00		560+00	Lt	Travelway
92+00		92+50	Rt	Travelway
195+00		196+50	Rt	Travelway
209+00		212+00	Rt	Travelway
318+00		319+50	Rt	Travelway
336+00		338+00	Rt	Travelway
403+00		407 + 00	Rt	Travelway
442+50		442+75	Rt	Travelway

Additional locations may be determined by Resident.

604.18 Adjusting Manhole or Catch Basin to Grade

Station	<u>Side</u>	Comment
220+95	Rt	Drain Manhole
221+90	Rt	Catch Basin

606.178 Guardrail Beam

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Side</u>
73+74		73+87	Rt
74+37		74+50	Rt
76+49		76+62	Rt
294+59		294+72	Rt
326+12		326+25	Rt
387+00		387+25	Rt

Additional locations may be determined by Resident.

606.353 Reflectorized Flexible Guardrail Markers 606.1305 31" W-BM Midway Splice Flared Terminal

<u>Station</u>	<u>Side</u>
312+21	Rt
382+25	Rt

606.362 Guardrail Adjust

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Side</u>
73+31		80+69	Lt
73+38		80+25	Rt
196+77		198 + 70	Lt
264+40		267+28	Rt

Additional locations may be determined by Resident.

606.366 Guardrail Removed and Reset

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Side</u>
264+10		267+22	Rt
281+00		283 + 00	Rt
286+14		288+75	Rt
468+70		471+16	Rt

Additional locations may be determined by Resident.

615.10 Dirty Borrow 618.14 Seeding Method 2 619.12 Mulch

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Side</u>
13+00		32+00	Lt
70+00		73+00	Lt
100 + 00		103+00	Lt
107 + 00		111 + 00	Lt
115+00		120+00	Lt
127+00		132+00	Lt
165+00		175+00	Lt
212+00		218+00	Lt
437+00		442+00	Lt
463+00		491+00	Lt
518+00		548+00	Lt
560+00		562+00	Lt
19+00		24+00	Rt
39+00		47+50	Rt
52+00		73+00	Rt
140 + 00		170 + 00	Rt
227+00		235+00	Rt
245+00		249+00	Rt
316+00		324+00	Rt
334+00		347+00	Rt
355+00		369+00	Rt
410+00		415+00	Rt
450+00		465+00	Rt
472+50		497+00	Rt

<u>Comment</u>
Dirty Borrow to be used after
all existing overburden material has
been used and as directed by the
Resident.

627.733 4" White or Yellow Painted Pavement Marking Line

Center lines and edge lines shall be painted on all matched pavement within one week.

Center line TOMs may be utilized until final striping and will be considered incidental to the contract.

Multilane sections and truck lanes must be striped daily on all matched pavement layers.

627.75 White or Yellow Pavement and Curb Marking

Stop Bar:		
<u>Station</u>	<u>Side</u>	<u>Comment</u>
10+09	Lt	
221+05	Rt	
221+16	Lt	Side Road
221+50	Rt	Side Road
221+69	Lt	
Symbols		
<u>Station</u>	<u>Side</u>	<u>Comment</u>
220+82	Rt	STOP
221+93	Lt	STOP
223+40	Lt	AHD
223+88	Lt	STOP

627.78 Temporary 4" Painted Pavement Marking Line, White or Yellow

Temporary center lines and edge lines shall be painted on all matched pavement within one week.

Multilane sections, truck lanes, and milled surfaces must be striped daily on all matched pavement layers.

Temporary lines will require one coat on the milled surface and one coat on the shim layer

629.05 Hand Labor

631.12 All Purpose Excavator (Including Operator)

631.133 Skid Steer (Including Operator)

631.172 Truck-Large (Including Operator)

<u>Station</u>	<u>to</u>	<u>Station</u>	Side
32+00		70+00	Lt
73+00		100 + 00	Lt
103+00		107 + 00	Lt
111+00		115+00	Lt
120+00		127 + 00	Lt
132+00		165 + 00	Lt
175+00		212+00	Lt
218+00		437+00	Lt
442+00		463+00	Lt
491+00		518+00	Lt
548+00		561+68	Lt
<u>Station</u>	<u>to</u>	Station	<u>Side</u>
<u>Station</u> 24+00	<u>to</u>	<u>Station</u> 39+00	<u>Side</u> Rt
<u>Station</u> 24+00 47+50	<u>to</u>	<u>Station</u> 39+00 52+00	<u>Side</u> Rt Rt
<u>Station</u> 24+00 47+50 73+00	<u>to</u>	<u>Station</u> 39+00 52+00 140+00	<u>Side</u> Rt Rt Rt
<u>Station</u> 24+00 47+50 73+00 170+00	<u>to</u>	<u>Station</u> 39+00 52+00 140+00 227+00	<u>Side</u> Rt Rt Rt Rt
<u>Station</u> 24+00 47+50 73+00 170+00 235+00	<u>to</u>	<u>Station</u> 39+00 52+00 140+00 227+00 245+00	<u>Side</u> Rt Rt Rt Rt Rt
<u>Station</u> 24+00 47+50 73+00 170+00 235+00 249+00	<u>to</u>	<u>Station</u> 39+00 52+00 140+00 227+00 245+00 316+00	<u>Side</u> Rt Rt Rt Rt Rt Rt
<u>Station</u> 24+00 47+50 73+00 170+00 235+00 249+00 324+00	<u>to</u>	<u>Station</u> 39+00 52+00 140+00 227+00 245+00 316+00 334+00	<u>Side</u> Rt Rt Rt Rt Rt Rt Rt
<u>Station</u> 24+00 47+50 73+00 170+00 235+00 249+00 324+00 347+00	<u>to</u>	<u>Station</u> 39+00 52+00 140+00 227+00 245+00 316+00 334+00 355+00	<u>Side</u> Rt Rt Rt Rt Rt Rt Rt Rt
<u>Station</u> 24+00 47+50 73+00 170+00 235+00 249+00 324+00 347+00 369+00	<u>to</u>	<u>Station</u> 39+00 52+00 140+00 227+00 245+00 316+00 334+00 355+00 410+00	<u>Side</u> Rt Rt Rt Rt Rt Rt Rt Rt Rt
Station 24+00 47+50 73+00 170+00 235+00 249+00 324+00 347+00 369+00 415+00	<u>to</u>	<u>Station</u> 39+00 52+00 140+00 227+00 245+00 316+00 334+00 355+00 410+00 450+00	Side Rt Rt Rt Rt Rt Rt Rt Rt Rt Rt
Station 24+00 47+50 73+00 170+00 235+00 249+00 324+00 347+00 369+00 415+00 465+00	<u>to</u>	$\frac{\text{Station}}{39+00}$ $52+00$ $140+00$ $227+00$ $245+00$ $316+00$ $334+00$ $355+00$ $410+00$ $450+00$ $472+50$	Side Rt Rt Rt Rt Rt Rt Rt Rt Rt Rt Rt

Items to be used for placement of dirty borrow, removing excessive overburden, cleaning inslopes and under guardrail and as directed by the Resident.

Comment

631.212 Small Pavement Grinder (Including Operator)

Station	<u>to</u>	<u>Station</u>	<u>Side</u>	Width (LF)
13+65		14+15	Lt	4
247+50		248+50	Lt	3
250+75		251+00	Lt	3
541+15		541+65	Lt	3
542+75		543+00	Lt	3

631.212 Small Pavement Grinder (Including Operator) Continued

Station	<u>to</u>	<u>Station</u>	<u>Side</u>	Width (LF)
91+60		92+00	Rt	3
248+80		249+00	Rt	3
386+90		387+10	Rt	3

652.35 Construction Signs

Two Road Work Next 11 Miles signs are required as part of this project.

652.41 Portable Changeable Message Boards

<u>Location</u>	<u>Qty</u>
Route 302	2
Route 11	1

SPECIAL PROVISION SECTION 461 HOT MIX ASPHALT (6.3 mm NMAS Mixture)

The Special Provision 400 – Pavements; Section 401 – Hot Mix Asphalt Pavements; the following subsections have been modified with the following:

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

Materials Materials shall meet the requirements specified in Section 700 – Materials, unless otherwise revised in this special provision.

Aggregates for the 6.3 mm NMAS mixture shall be required to meet the requirements of Section 703.07 Aggregates for HMA Pavements. The several aggregate fractions for mixtures shall be sized, graded, and combined in such proportions that the resulting composite blends, including RAP aggregate will meet the grading requirements of the following table:

<u>TYPE 6.3 MM AGGREGATE GRADATION CONTROL POINTS</u>		
Nominal Maximum Aggregate SizeControl Points		
(Percent Passing)		
Sieve	Percent by Weight Passing - Combined	
Designation	Aggregate	
9.5 mm	95-100	
6.3 mm	90-100	
4.75 mm	-90	
2.36 mm	40-80	
1.18 mm	-	
0.60 mm	-	
0.30 mm	-	
0.075 mm	2.0-7.5	

TYPE (A) O () CODEC (TE OD (D (TIO)) CO) TED OL DODI

Composition of Mixtures For bidding purposes, the bidder shall use a PGAB content of 6.7% for all job mixes. The Department will determine the target PGAB content following submission of the Job Mix Formula and all related aggregates. Should the Department determine that the required PGAB content be adjusted from the 6.7% target, the following payment adjustments shall be made:

- a.) The Contractor shall have the contract price per ton increased an additional fifty cents (\$0.50/ton) per ton for each one-tenth of one percent (0.1%) increase in the target PGAB content.
- b.) The Contractor shall have the contract unit price per ton decreased an additional fifty cents (\$0.50) per ton for each one-tenth of one percent (0.1%) decrease in the target PGAB content.

The Contractor shall compose the Hot Mix Asphalt Pavement with aggregate, Performance Graded Asphalt Binder (PGAB), and mineral filler if required. The Contractor may use a maximum of 30 percent RAP in mixtures used as the 461.216 6.3 mm shim if the RAP stockpile has been approved by the Department as a Class I or II. The Contractor may use a maximum of 20 percent RAP from a Class I, II, or III source.

The HMA supplier shall submit a suggested asphalt content aim for the 6.3 mm mixture with supporting test data meeting the requirements of this specification. The HMA supplier shall provide a suggested asphalt content that attains 4.0% to 6.0% air voids when tested according to AASHTO T 312 (Method A or B only) at an N_{design} of 65 gyrations. The suggested asphalt content aim shall be based upon at least three different asphalt content trials. The Department will independently determine the target PGAB content following submission of the Job Mix Formula and all related aggregates through the same process. The HMA supplier shall provide the following information with the mix design submittal:

- a. Job Mix Formula (JMF) summary information including:
 - Aim gradation and binder content (total AC percent and new AC percent)
 - Mixture specific gravity values (G_{mm})
 - Individual stockpile identification information required in Section 105.8.6 of the Maine Standard Specifications (aggregate source, pit name, owner, location, etc.)
 - Individual stockpile gradation summary
- b. Trial blends testing information including all of the following:
 - \circ Test results (AC, Air Voids, G_{mm} , G_{mb}) for at least 3 different asphalt contents
 - AC vs. Air Voids trial blend curve.
- c. Current PGAB QC Plan (unless MaineDOT already has one on file). Only one PG supplier per PG grade per design will be allowed. The HMA supplier shall request approval from the Department for a change in PGAB supplier or source by submitting documentation to the Asphalt Pavement Engineer stating the new supplier or source a minimum of 24 hours prior to the change.
- d. Safety Data Sheets (SDSs) for PGABs (unless MaineDOT already has one on file.)
- e. Target date for which the JMF approval is needed or a priority list with dates for approval of multiple submitted JMFs as needed for production by the HMA supplier.

<u>Acceptance Method A, B, C & D</u> Unless otherwise specified in the 403 special provision, the mixtures shall be evaluated under Method D criteria, except the sublot size shall be 1500 tons. Test strips will not be required. The first project identification number in the contract paving area will be used for the purpose of tracking HMA Lots. Nothing in this section prevents MaineDOT personnel or their representatives from obtaining additional samples of products to verify the acceptability of the product.

Payment will be made under:

Pay Item

Pay Unit

461.216 - 6.3 mm HMA Shim

Ton