



Janet Mills
GOVERNOR

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

Bruce A. Van Note
COMMISSIONER

February 28, 2019
Subject: Pavement Milling, Ultra-Thin
Bonded Wearing Course with Drainage
& Safety Improvements
State WIN: 023955.00, 023957.00 & 023959.00
Location: **Caribou, Van Buren, Grand Isle,
Connor Township & Cyr Plantation**
Amendment No. 1

Dear Sir/Ms.:

Please make the following changes to the Bid Documents:

In the Bid Book:

ADD the attached SPECIAL PROVISION – SECTION 401 – HOT MIX ASPHALT PAVEMENT – (HMA with Fine-Micro Deval Requirement), 1 page.

REMOVE page 85, SPECIAL PROVISION – SECTION 403 – HOT MIX ASPHALT, 1 page, dated January 30, 2019, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 403 – HOT MIX ASPHALT, 1 page, dated February 19, 2019.

The following question has been received:

Question: Will the Contractor be required to meet a Fine Micro-Deval requirement for the aggregates included in the mix design for item 462.301 Ultra-Thin Bonded Wearing Course?

Response: The Department will require aggregate materials meeting the attached SPECIAL PROVISION – SECTION 401 – HOT MIX ASPHALT PAVEMENT – (HMA with Fine-Micro Deval Requirement).

Consider these changes and information prior to submitting your bid on **March 6, 2019**.

Sincerely,

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

SPECIAL PROVISION
SECTION 401 - HOT MIX ASPHALT PAVEMENT
(HMA with Fine Micro-Deval Requirement)

The following subsections of the most current version of Specification 401 – Hot Mix Asphalt Pavements have been revised and amended by the following:

401.01 Description The Contractor shall compose Hot Mix Asphalt (HMA) Pavement with aggregate, Performance Graded Asphalt Binder (PGAB), and mineral filler if required.

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

Aggregates for HMA Pavement	703.07
HMA Mixture Composition	703.09

The individual fine aggregates shall have a Fine Micro-Deval value of 14.0 or less as determined by ASTM D7428.

SPECIAL PROVISION
SECTION 403
HOT MIX ASPHALT

Desc. Of Course	Grad Design.	Item Number	Total Thick	No. Of Layers	Comp. Notes
<u>Ultra-Thin Bonded Wearing Course</u>					
<u>Mainline Travelway, Shoulders (As Indicated in Typical)</u>					
Wearing	Type C	462.301	¾"	1	27,28,30
<u>Spot Shims/Delaminated Areas (As Directed by Resident)</u>					
Shim	9.5 mm	403.211	variable	1/more	1,2,4,10,11,14

COMPLEMENTARY NOTES

1. The required PGAB for this mixture will meet a **PG 64-28** grading.
2. 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 bridge decks.
4. The design traffic level for mix placed shall be 0.3 to <3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **65 gyrations**.
10. Section 106.6 Acceptance, (2) Method D.
11. The combined aggregate gradation required for this item shall be classified as a 9.5mm "**fine graded**" mixture, (using the Primary Control Sieve control point) as defined in 703.09.
14. 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.
27. See Special Provision 462 – Ultra Thin Bonded Wearing Course for project specifics.
28. See Special Provision 401 – HMA with Fine Micro-Deval Requirement for project specifics.
30. 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.

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.