



**MeDOT WIN 11599.30 & 22390.00 / Bid No. 2020-058  
River Road Reconstruction  
December 4, 2020**

**ADDENDUM NO. 3**

Contents:

- Questions received and City responses
- Revised City of Lewiston Contract For River Road Reconstruction
- Revised Special Provision 105 – Limitations of Operations
- Special Provision 614 – Geocell Slope Protection
- Special Provision 620 – Geotextiles
- Revised Special Provision 403 – Hot Mix Asphalt

Below are the questions received during the open question period and respective answers:

**Question:** The Buckeye oil line. Are they going to allow compaction on the gravel and pavement with vibratory rollers?

**Answer:** We just did it on Goddard Road and they compacted over it. They want to be there when you're working within so many feet of it. It shouldn't be a problem.

**Question:** Where this is DOT funded, I assume there is asphalt escalation for the whole project. I want to verify that the asphalt escalation is included.

**Answer:** Yes.

**Question:** On the mill and overlay section, it's your intent to have a ½" shim?

**Answer:** It's going to be variable depth and it will depend on how you mill and what slopes you mill at. There is a mill table. It's approximate. The goal was to try to get as uniform a depth to shim across the travel way. If you have a different strategy that you think might work better, work with the resident. We are open to that if it saves, quantity, time and cost.

**Question:** Will you put a copy of the sign in sheet with the addendum?

**Answer:** Yes.

**Question:** How will test pits be paid for?

**Answer:** Test pits will be paid by use of applicable hourly pay items. Locations referenced on plans are approximate for informational purposes. The Contractor shall coordinate with the Resident to determine actual locations and number of test pits to be completed.

**Question:** Are all of the CB's in the 11599.30 portion of the project Type B1-C?

**Answer:** Yes.

**Question:** 011599.30 P3 shows a 5' dia. CB at station 22+24 but the cross section on XS-9 appears to be a 4' dia. CB. Can you confirm the diameter of this structure? Will it be paid under the Type B1-C's?

**Answer:** The proposed catch basin at that location is intended to be a 5' dia CB. It will be paid under item 604.092 – Catch Basin Type B1-C.

**Question:** Are standard galvanized gabion baskets acceptable?

**Answer:** Yes, the pay item in the contract is 601.211 – Gabions, Galvanized and Hand Filled.

**Question:** There doesn't appear to be any information on the notes or the drawing for the anchoring of the geocell on the slope. What is the specified anchoring?

**Answer:** It calls for a 6 inch geocell based on MDOT standard spec section 614 and anchored per manufacturer's instructions. Section 614 requires a stamped design submittal which should include the anchoring and tendon requirements. The slope details (1:1) and lengths are shown on the cross sections sheet XS-6. The details are generic and leave a lot up to the manufacturer to recommend based on their product.

**Question:** Can you confirm the note 56 on sheet 4 of 39 should be deleted? There is tree removal item and a clearing item so I'm assuming this note doesn't apply to the project.

**Answer:** That is correct, Note 56 on page 4 of the plans for WIN 22390.00 should be deleted. All tree clearing for 11599.30 and clearing areas outlined on the plans will be paid as item 201.11. Tree removal items (201.23 and 201.24) are intended to cover the cutting of large trees near the Lewiston Operations Center.

**Question:** Is the pavement removal for the 11599.30 section consider incidental?

**Answer:** Pavement removal for the reconstruction portions of 11599.30 and 22390.00 shall be accounted for and paid under item 203.20 Common Excavation. Pavement milling for the mill and overlay section of 22390.00 shall be paid under item 202.202 Removing Pavement Surface.

**Question:** Will concrete testing be required for curb?

**Answer:** As per SP 502, QA Method C shall be utilized, meaning testing for concrete slipform curb shall be directed by the resident where necessary.

**Question:** Will testing of concrete, compaction etc. be paid for by the Owner or through the contractor if it is required?

**Answer:** QC testing per the contractor's submitted QC plan may be required to be completed and paid for by the contractor. Required QA testing shall be completed by the City's consultant and paid by the City.

**Question:** Will the paving of Old River Road and Razel Way be paid under item 403.209 or 403.213/403.208?

**Answer:** The paving of those paved drives will be paid under item 403.209 - HOT MIX ASPHALT, 9.5 MM NOMINAL MAXIMUM SIZE (SIDEWALKS, DRIVES, ETC.).

**Question** The bidding instructions par. 2.d states the following documents must be received prior to bid opening “Two copies of the completed and signed Contract Agreement, Offer and Award form” Please review and clarify if this is actually to be submitted after the bid opening as is typical.

**Answer:** The Contract Agreement, Offer, and Award form are not to be submitted as part of the bid submission. They will be executed with the awarded party after the bid opening.

**Question** Is there a budget for this project?

**Answer:** Since this is a MaineDOT Project, we are not providing construction budget figures.

**Question** It is the MDOT bid bond form included in the specs which is payable to MDOT but all specs say City of Lewiston is owner. Will the AIA bid bond form be acceptable or is the owner in fact MDOT and we should use the MDOT bid bond form?

**Answer:** The AIA Bid Bond form is acceptable. The specs are correct, the City is the owner and the bond should be payable to the City of Lewiston.

**Question** Will removal of existing gabion baskets be paid as common excavation?

**Answer:** Yes, removal of existing gabion baskets will be paid as item 203.20 – Common Excavation.

**CITY OF LEWISTON, MAINE**

**CONTRACT FOR**

**River Road Reconstruction**

**2020-058**

This Agreement, made and entered into the date listed below, in the year two thousand and twenty between the City of Lewiston, Maine, a municipal corporation existing under the laws of the State of Maine, hereinafter called "Owner", by its City Administrator, party of the first part, and

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hereinafter called "Contractor", with legal address and principal place of business at:

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party of the second part:

WITNESSETH:

That the parties to these presents, each in consideration of the covenant and agreements on the part of the other herein contained, have covenanted and agreed and do hereby covenant and agree, the party of the first part for itself and the party of the second part for himself/herself and his/her heirs, executors, administrators and assigns under the penalties expressed in the Performance Bond and the Labor and Material Payment Bond as follows:

That this Agreement includes the following documents, hereinafter referred to as Contract Documents, which are attached hereto and incorporated by reference into this Agreement:

- A. Notice to Contractors
- B. Proposal
- C. Contract
- D. Notice of Award
- E. Notice to Proceed
- F. Supplemental Specifications

- G. Standard Specifications
- H. Contract Plans, if any
- I. Addenda, if any
- J. Federal Conditions, if any

That the party of the second part will do all the work, furnish all the materials, tools and equipment, except as otherwise specified, and do everything necessary and proper for performing and faithfully completing the work required by the Contract Documents in strict conformity with the provisions of the Contract Documents within the time specified in the Special Provisions, Plans, and the Standard and Supplemental Specifications. That the party of the first part will pay the party of the second part as full compensation for well and faithfully completing the whole work according to the Contract Documents as follows:

**River Road Reconstruction WIN 011599.30 & 022390.00**

ITEM NO.	EST. QTY	PAY UNIT	ITEM DESCRIPTION AND UNIT	TOTAL
201.11	0.25	AC	CLEARING _____ _____ (\$ _____) AC	\$ _____
201.23	7	EACH	REMOVING SINGLE TREE TOP ONLY _____ _____ (\$ _____) EA	\$ _____
201.24	7	EACH	REMOVING STUMP _____ _____ (\$ _____) EA	\$ _____
202.15	7	EACH	REMOVE MANHOLE OR CATCH BASIN _____ _____ (\$ _____) EA	\$ _____
202.202	6300	SY	REMOVING PAVEMENT SURFACE _____ _____ (\$ _____) SY	\$ _____
202.203	300	SY	PAVEMENT BUTT JOINTS _____ _____ (\$ _____) SY	\$ _____
203.20	11560	CY	COMMON EXCAVATION _____ _____ (\$ _____) CY	\$ _____
203.25	100	CY	GRANULAR BORROW _____ _____ (\$ _____) CY	\$ _____

ITEM NO.	EST. QTY	PAY UNIT	ITEM DESCRIPTION AND UNIT	TOTAL
206.07	10	CY	STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES _____ _____ (\$ _____) CY	\$ _____
304.10	6220	CY	AGGREGATE SUBBASE COURSE – GRAVEL _____ _____ (\$ _____) CY	\$ _____
304.14	2040	CY	AGGREGATE BASE COURSE- TYPE A _____ _____ (\$ _____) CY	\$ _____
304.15	750	CY	AGGREGATE BASE COURSE- TYPE B _____ _____ (\$ _____) CY	\$ _____
403.2081	2705	TON	POLYMER MODIFIED HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE, SURFACE _____ _____ (\$ _____) TON	\$ _____
403.209	235	TON	HOT MIX ASPHALT, 9.5 MM NOMINAL MAXIMUM SIZE (SIDEWALKS, DRIVES, ETC.) _____ _____ (\$ _____) TON	\$ _____
403.211	515	TON	HOT MIX ASPHALT, 9.5 MM NOMINAL MAXIMUM SIZE (SHIMMING) _____ _____ (\$ _____) TON	\$ _____
403.213	3625	TON	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE, BASE _____ _____ (\$ _____) TON	\$ _____
409.15	1290	GAL	BITUMINOUS TACK COAT, APPLIED _____ _____ (\$ _____) GAL	\$ _____
601.211	40	CY	GABIONS, GALVANIZED AND HAND FILLED _____ _____ (\$ _____) CY	\$ _____
603.159	140	LF	12 IN CULVERT PIPE OPTION III _____ _____ (\$ _____) LF	\$ _____
603.169	125	LF	15 INCH CULVERT PIPE OPTION III _____ _____ (\$ _____) LF	\$ _____
603.18	20	LF	21 IN CULVERT PIPE OPTION I _____ _____ (\$ _____) LF	\$ _____

ITEM NO.	EST. QTY	PAY UNIT	ITEM DESCRIPTION AND UNIT	TOTAL
603.195	104	LF	24 INCH REINFORCED CONCRETE PIPE CLASS III _____ (\$ _____) LF	\$ _____
603.2	30	LF	30 IN CULVERT PIPE OPTION I _____ (\$ _____) LF	\$ _____
603.55	8	GP	CONCRETE PIPE TIES _____ (\$ _____) GP	\$ _____
604.092	11	EACH	CATCH BASIN TYPE B1-C _____ (\$ _____) EA	\$ _____
604.16	4	EACH	ALTERING CATCH BASIN TO MANHOLE _____ (\$ _____) EA	\$ _____
604.167	3	EACH	CHANGE CATCH BASIN GRATE TO CASCADE GRATE _____ (\$ _____) EA	\$ _____
604.18	11	EACH	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE _____ (\$ _____) EA	\$ _____
604.247	1	EACH	CATCH BASIN TYPE F5-C _____ (\$ _____) EA	\$ _____
604.248	1	EACH	CATCH BASIN TYPE F6 _____ (\$ _____) EA	\$ _____
604.262	1	EACH	CATCH BASIN TYPE B5-C _____ (\$ _____) EA	\$ _____
605.09	5130	LF	6 INCH UNDERDRAIN TYPE B _____ (\$ _____) LF	\$ _____
605.1	120	LF	6 INCH UNDERDRAIN OUTLET _____ (\$ _____) LF	\$ _____
605.11	440	LF	12 INCH UNDERDRAIN TYPE C _____ (\$ _____) LF	\$ _____
606.356	12	EACH	UNDERDRAIN DELINEATOR POST _____ (\$ _____) EA	\$ _____

ITEM NO.	EST. QTY	PAY UNIT	ITEM DESCRIPTION AND UNIT	TOTAL
606.47	6	EACH	SINGLE WOOD POST _____ (\$ _____) EA	\$ _____
606.51	1	EACH	MULTIPLE MAILBOX SUPPORT _____ (\$ _____) EA	\$ _____
607.25	1550	LF	REMOVE AND RESET CHAIN LINK FENCE _____ (\$ _____) LF	\$ _____
606.1301	2600	LF	31" W-BEAM GUARDRAIL - MID-WAY SPLICE – SINGLE FACED _____ (\$ _____) LF	\$ _____
606.1302	25	LF	31" W-BEAM GUARDRAIL - MID-WAY SPLICE – DOUBLE FACED _____ (\$ _____) LF	\$ _____
606.1305	6	EACH	31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL _____ (\$ _____) EA	\$ _____
606.754	6	EACH	WIDEN SHOULDER FOR FLARED GUARDRAIL TERMINAL _____ (\$ _____) EA	\$ _____
609.11	80	LF	VERTICAL CURB TYPE 1 _____ (\$ _____) LF	\$ _____
609.237	2	EACH	TERMINAL CURB TYPE 1- 7 FOOT _____ (\$ _____) EA	\$ _____
609.21	4900	LF	CONCRETE SLIPFORM CURB _____ (\$ _____) LF	\$ _____
609.219	120	LF	CONCRETE SLIPFORM CURB - TERMINAL END _____ (\$ _____) LF	\$ _____
610.08	205	CY	PLAIN RIPRAP _____ (\$ _____) CY	\$ _____
610.18	170	CY	STONE DITCH PROTECTION _____ (\$ _____) CY	\$ _____



ITEM NO.	EST. QTY	PAY UNIT	ITEM DESCRIPTION AND UNIT	TOTAL
613.319	3000	SY	EROSION CONTROL BLANKET _____ (\$ _____) SY	\$ _____
613.4	1500	SY	TURF REINFORCING MAT _____ (\$ _____) SY	\$ _____
614.3	3500	SF	GEOCELL CONFINEMENT SYSTEM FOR SLOPE PROTECTION _____ (\$ _____) SF	\$ _____
615.07	610	CY	LOAM _____ (\$ _____) CY	\$ _____
615.1	240	CY	DIRTY BORROW _____ (\$ _____) CY	\$ _____
618.1301	39	UNIT	SEEDING METHOD NUMBER 1 - PLAN QUANTITY _____ (\$ _____) UNIT	\$ _____
618.14	58	UNIT	SEEDING METHOD NUMBER 2 - PLAN QUANTITY _____ (\$ _____) UNIT	\$ _____
618.141	26	UNIT	SEEDING METHOD NUMBER 3 - PLAN QUANTITY _____ (\$ _____) UNIT	\$ _____
619.1201	123	UNIT	MULCH - PLAN QUANTITY _____ (\$ _____) UNIT	\$ _____
620.58	1630	SY	EROSION CONTROL GEOTEXTILE _____ (\$ _____) SY	\$ _____
620.65	1150	SY	REINFORCEMENT GEOGRID _____ (\$ _____) SY	\$ _____
627.711	20600	LF	WHITE OR YELLOW PAVEMENT MARKING LINE- PLAN QUANTITY _____ (\$ _____) LF	\$ _____
627.78	13800	LF	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW _____ (\$ _____) LF	\$ _____

ITEM NO.	EST. QTY	PAY UNIT	ITEM DESCRIPTION AND UNIT	TOTAL
629.05	30	HR	HAND LABOR, STRAIGHT TIME _____ (\$ _____) HR	\$ _____
631.1	20	HR	AIR COMPRESSOR (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.11	20	HR	AIR TOOL (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.12	30	HR	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.13	30	HR	BULLDOZER (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.14	20	HR	GRADER (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.15	20	HR	ROLLER, EARTH AND BASE (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.172	30	HR	TRUCK - LARGE (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.18	20	HR	CHAIN SAW RENTAL (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.2	20	HR	STUMP CHIPPER RENTAL (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.22	30	HR	FRONT END LOADER (INCLUDING OPERATOR) _____ (\$ _____) HR	\$ _____
631.32	30	HR	CULVERT CLEANER (INCLUDING OPERATORS) _____ (\$ _____) HR	\$ _____
637.071	1	EACH	DUST CONTROL _____ (\$ _____) EA	\$ _____

ITEM NO.	EST. QTY	PAY UNIT	ITEM DESCRIPTION AND UNIT	TOTAL
645.292	18	SF	REGULATORY, WARNING, CONFIRMATION, AND ROUTE MARKER ASSEMBLY SIGNS TYPE II _____ _____ (\$ _____) SF	\$ _____
652.33	150	EACH	DRUM _____ _____ (\$ _____) EA	\$ _____
652.34	150	EACH	CONE _____ _____ (\$ _____) EA	\$ _____
652.35	700	SF	CONSTRUCTION SIGNS _____ _____ (\$ _____) SF	\$ _____
652.361	240	CD	MAINTENANCE OF TRAFFIC CONTROL DEVICES _____ _____ (\$ _____) CD	\$ _____
652.38	5750	HR	FLAGGER _____ _____ (\$ _____) HR	\$ _____
652.41	2	EACH	PORTABLE - CHANGEABLE MESSAGE SIGN _____ _____ (\$ _____) EA	\$ _____
656.75	1	LS	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL _____ _____ (\$ _____) LS	\$ _____
658.20	145	SY	ACRYLIC LATEX COLOR FINISH _____ _____ (\$ _____) SY	\$ _____
659.10	1	LS	MOBILIZATION _____ _____ (\$ _____) LS	\$ _____

Total Bid: \_\_\_\_\_  
\_\_\_\_\_ (\$ \_\_\_\_\_)

The party of the second part represents and warrants:

- A. That he/she is financially solvent; and is experienced in and competent to perform the work; and is able to furnish the plant, materials, supplies, labor, and equipment to be furnished by him/her; and,

- B. That he/she is familiar with all Federal, State, Municipal and Departmental laws, ordinances and regulations which may in any way affect the work or those employed therein; and,
- C. That such temporary and permanent work required by the Contract Documents to be done by him/her can be satisfactorily constructed and used for the purposes for which it is intended; and that such construction will not injure any person or damage any property other than that damage caused by the construction; and,
- D. That he/she has carefully examined the Contract Documents and the site of the work; and from his/her own investigation has satisfied himself/herself as to the nature and location of the work, the character, quality and quantity of surface and subsurface material likely to be encountered, the character of equipment and other facilities needed for the performance of the work, the general and local conditions; and all the other materials and conditions which may in any way affect the work or its performance.

If you are proposing to use any subcontractors, please list them here along with references for them. They will need written permission from the Purchasing Agent as well as the required insurance coverage and certificate of insurance submitted to the Purchasing Agent.

IN WITNESS WHEREOF, the said City, by its City Administrator and the said

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By its \_\_\_\_\_ thereunto duly authorized have hereunto set their hands and seals the date below written.

Signed in the presence of:

\_\_\_\_\_

Witness

By: \_\_\_\_\_

Denis D’Auteuil, City Administrator

Date: \_\_\_\_\_

\_\_\_\_\_

Witness

By: \_\_\_\_\_

Contractor

Date: \_\_\_\_\_

## SPECIAL PROVISION SECTION 105

### GENERAL SCOPE OF WORK

#### (Limitations of Operations)

1. In preparation for any work to be completed within the Maine Turnpike Authority Right of Way, as depicted on the plans, the Contractor must acquire a MTA Work Permit/License.
2. The contractor must also submit to the Maine Turnpike Authority a Certificate of Insurance (COI) naming the Maine Turnpike Authority as an additional insured party for the project.
3. The MTA Work Permit/License application and instructions are attached.
4. The contractor must submit all applications and related materials to:

Ben Bolduc  
Maine Turnpike Authority  
Right of Way Department  
2360 Congress Street  
Portland, ME 04102  
Tel: (207)871-7771 x355  
Fax: (207)879-5567  
[BBolduc@maineturnpike.com](mailto:BBolduc@maineturnpike.com)

5. The contractor shall **not** be allowed to dispose of the common excavation at the City quarry at 94 River Rd. All fill shall be disposed of off-site at an approved dump site. The quarry site may be used by the contractor for temporary storage of materials, equipment and general laydown yard.

SPECIAL PROVISION SECTION 614

Geocell Slope Protection

Amend Standard Specification 614 – Geocell Slope Protection to include the following:

614.07 Basis of Payment Same, except:

Items listed below used in the construction of the geocell slope protection system shall be paid per each respective pay item.

<u>Pay Item</u>	<u>Pay Unit</u>
203.2 COMMON EXCAVATION	Cubic Yards
304.15 AGGREGATE BASE COURSE- TYPE B	Cubic Yards
614.3 GEOCELL CONFINEMENT SYSTEM FOR SLOPE PROTECTION	Square Foot
615.1 DIRTY BORROW	Cubic Yards

## SPECIAL PROVISION SECTION 620

### Geotextiles

Amend Standard Specification 620 – Geotextiles to include the following:

620.10 Basis of Payment Same, except:

Items listed below used in the construction of the reinforcement geogrid system shall be paid per each respective pay item.

<u>Pay Item</u>	<u>Pay Unit</u>
203.2 COMMON EXCAVATION	Cubic Yards
304.15 AGGREGATE BASE COURSE- TYPE B	Cubic Yards
620.65 REINFORCEMENT GEOGRID	Square Yards
615.1 DIRTY BORROW	Cubic Yards

**SPECIAL PROVISION**  
**SECTION 403**  
**HOT MIX ASPHALT**

Desc. Of Course	Grad Design.	Item Number	Total Thickness	No. Of Layers	Comp. Notes
<b><u>4" HMA Overlay - Full Construction Areas</u></b>					
<b><u>Travelway &amp; Shoulders (As Indicated)</u></b>					
Wearing	12.5 mm	403.2081	1 ½"	1	2,5,9
Base	12.5 mm	403.213	2 ½"	1	4,9
<b><u>Variable Depth Mill &amp; 1 ½" HMA Overlay Areas</u></b>					
<b><u>Travelway &amp; Shoulders (As Indicated)</u></b>					
Wearing	12.5 mm	403.2081	1 ½"	1	2,5,9
Shim	9.5 mm	403.211	Variable	1	4,10,20,30
<b><u>Variable Depth Spot Shims (As Directed)</u></b>					
Wearing	9.5 mm	403.211	Variable	1	4,10,20,30
<b><u>Sidewalks, Drives, Misc. (As Indicated or As Directed)</u></b>					
Wearing	9.5 mm	403.209	2"	1/more	3,20,30,32

**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 design traffic level for mix placed shall be <3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **65 gyrations**.
4. The design traffic level for mix placed shall be 0 to <3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **65 gyrations**.
5. The aggregate qualities shall meet the design traffic level of 3 to <10 million ESALS for mix placed under this contract. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **65 gyrations**.
9. Section 106.6 Acceptance, (2) **Method C** as specified Section 401.21 - Quality Assurance Methods C and D.
10. Section 106.6 Acceptance, (2) **Method D** as specified Section 401.21 - Quality Assurance Methods C and D.
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.
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 bridge decks.



32. Compaction of the new Hot Mix Asphalt Pavement will be obtained using a minimal roller train consisting of a **3-5 ton** vibratory roller. Areas less than 2 feet wide shall be compacted with a minimum of a **150 pound** plate compactor. An approved release agent is required to ensure the mixture does not adhere to hand tools, rollers, pavers, and truck bodies. The use of petroleum based fuel oils, or asphalt stripping solvents will not be permitted.

#### Tack Coat

A tack coat of emulsified asphalt, RS-1 or RS-1h, Item 409.15 shall be applied to any existing pavement at a rate of approximately 0.030 gal/yd<sup>2</sup>, and on milled pavement approximately 0.05 gal/yd<sup>2</sup> 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/yd<sup>2</sup>. Cleaning objectionable material from the pavement and furnishing and applying Item 409.15 bituminous materials to joints and contact surfaces is incidental to the contract paving items.