

SECTION 00744 - MINOR HOT MIXED ASPHALT CONCRETE (MHMAC) PAVEMENT

(Follow all instructions. If there are no instructions above a subsection, paragraph, sentence, or bullet, then include them in the project but make necessary modifications to only include project specific specifications. Delete specifications that do not apply to the project.)

Comply with Section 00744 of the Standard Specifications modified as follows:

(Use the following subsection .11(a) on projects that are in Regions 4 and 5.)

00744.11(a) Asphalt Cement - Replace the sentence that begins "Use PG 64-22 or..." with the following sentence:

Use PG 64-28 or PG 70-28 asphalt on this Project.

00744.16 MHMAC Acceptance - Replace this subsection with the following subsection:

00744.16 MHMAC Acceptance - A CAT-1 shall perform a minimum of one asphalt content, gradation, mix moisture, and Maximum Specific Gravity (AASHTO T 209) test per day and provide results to the Engineer by the middle of the following work shift. The Contractor shall also provide split samples to the Engineer when requested. Testing may be waived upon written notice and accepted visually by the Engineer according to Section 4(B) of the MFTP.

When three or more tests are performed on a project, a price adjustment will be calculated according to 00744.95.

Add the following subsection:

00744.17 Small Quantity Acceptance - When less than three test results are obtained on a project and testing has not been waived by the Engineer, the MHMAC will be accepted according to the following:

(a) Within Specification Limits - If all subplot sample test results are within specification limits for all constituents (including compaction) the material will be accepted and the full bid price will be paid for the material represented by that test.

(b) Outside Specification Limits - If a subplot sample test result for any constituent is outside the specification limit the Engineer will have the backup sample tested.

(1) Backup Within Specifications - If the backup sample test results for all constituents are within specification, the material will be accepted and the full bid price will be paid for the material represented by that test.

(2) Backup Out of Specifications - If the backup sample test results are out of specification, the Contractor may choose to accept the price adjustment calculated according to 00744.95 or may choose to sample the in-place material for further testing. The price adjustments will be computed using all original test results as well

as all backup test results. (If there are less than three tests, average the two tests you have and use the average as the third test result). In no case will the composite pay factor (CPF) be greater than 1.0.

(3) In-Place Samples - If the in-place material is sampled, the Engineer will select and sample from three random locations from the area represented by the lot in question. Those samples will be tested and if found to be within specification the material will be accepted and paid for at the full bid price. If the material proves to be outside of the specification limits, the material will be accepted and paid for at an adjusted price according to 00744.95. In no case will the CPF be above 1.0.

00744.49 Compaction - Replace this subsection with the following subsection:

00744.49 Compaction - Immediately after the MHMAC has been spread, struck off, and surface irregularities and other defects remedied, roll it uniformly with rollers meeting the requirements of 00744.24 until compacted to a minimum of 91% of MAMD. Perform finish rolling and continue until all roller marks are eliminated. Determine the density of each subplot by averaging five QC tests performed at random locations by a CDT with the nuclear gauge operated in the backscatter mode according to WAQTC TM 8. Calculate MAMD according to ODOT TM 305. When less than three subplot test results are obtained on a project, the MHMAC will be accepted according to 00744.17. Perform a minimum of one subplot density test per day. The Engineer may waive compaction testing upon written notice.

00744.80 Measurement - Delete the paragraph that begins "No separate measurement will be made...".

00744.90 Payment - Delete the paragraph that begins "No separate or additional payment will be made for the asphalt tack...".

Add the following subsection:

00744.95 MHMAC Price Adjustments - The Composite Pay Factor (CPF), calculated according to 00165.40 will be applied to the Contract unit price for the pay items of 00744.90 and to the applicable lot quantities. The CPF will be made available to the Contractor within 24 hours of receipt of the required quality control test results. If less than three samples are tested, the CPF will be computed as outlined in 00744.17. The maximum CPF for any case will be 1.0.

Use the following table to determine price adjustments in the CPF for constituents of MHMAC.

Gradation Constituents	Dense Graded MHMAC Type		
	Weighting Factor (f)		
All Aggregate Passing	3/4"	1/2"	3/8"
1"	1		
3/4"	1	1	
1/2"	1	1	1
3/8"	–	–	1

No. 4	5	5	5
No. 8	5	6	6
No. 30	3	3	3
No. 200	10	10	10

Other Constituents

Asphalt Content	26	26	26
Moisture Content	8	8	8
Compaction	40	40	40

Those MHMAC constituents statistically evaluated will be eligible for a maximum PF of 1.00 (see 00165.50(b-1)), unless otherwise specified.

If these specifications do not require measurement of a constituent, its individual PF will be considered 1.00 in calculating the CPF according to 00165.40.

A price adjustment will be determined by the following formula:

$$(CPF - 1) \times \text{MHMAC Unit Price} \times (LQ) = \underline{\hspace{2cm}}$$

Where: LQ is the quantity of mixture in the lot