

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-406-4

CODE: (SP)

DATE: 10/13/2015

SUBJECT: Cold Milling

Section 406, Cold Milling, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

**907-406.01--Description.** After the first paragraph of Subsection 406.01 on page 279, add the following.

This work also consists of the removal of portions of existing pavement using a cold fine milling process to a nominal depth using grade control as specified on the Plans or as directed by the Engineer. It shall also include the loading, hauling, and disposal of the milled materials by the Contractor in accordance with the plans and specifications. The planed surface shall provide a textured surface suitable for repairs, paving, or as a temporary riding surface, whichever is specified.

**907-406.03--Construction Requirements.**

**907-406.03.1--Equipment.** Delete the third sentence of the first paragraph of Subsection 406.03.1 on page 279, and substitute the following.

The equipment shall accurately and automatically establishing profile grades along each edge of the machine by referencing from the existing pavement with means of an approved profile averaging device with extreme contact points with surface at least 30 feet apart, or from an independent grade line and shall have an automatic system for controlling cross slope.

After the second paragraph of Subsection 406.03.1 on page 279, add the following.

When fine milling is required, the milling machine shall, in addition to the above, be designed specifically for grinding surfaces to close tolerances and shall be operated at a rate recommended by the manufacturer so as to avoid tearing and gouging of the pavement surface. The fine milling machine shall be equipped with a fine milling drum of the size and shape necessary to produce an ultrafine texture to the milled surface and meet the requirements of this specification. The bit or teeth spacing on the drum shall have a maximum spacing of six millimeter (6 mm). The equipment shall have a positive means for limiting any dust resulting from the operation from escaping into the air.

After Subsection 406.03.2 on page 280, add the following.

**907-406.03.3--Fine Milling.** Unless otherwise noted or advised by the Engineer, the fine milling operation shall be conducted using an automatic grade control device, as referenced in Subsection

406.03.1, to establish accurate grade control and cross slope. The milled surface shall be textured, substantially free from waves or irregularities.

Prior to beginning a fine milling operation, the Engineer may require the Contractor to construct a 500-foot test section. The texture and consistency of profile and cross slope of this test section will be evaluated by the Engineer to verify the above straight-edge requirement can be met.

If the tolerance is exceeded in the test section, the Contractor shall cease work and take corrective actions to improve the process. Once corrective actions are taken, the Contractor will construct another test section. This designated section shall be fine milled to conform to the same requirements as those required in the initial test section. The Contractor shall not be allowed to start continuous fine milling until an acceptable test section is obtained.

Fine milling shall produce a uniform finished surface and maintain a constant cross slope between extremities in each lane.

The surface tolerance of the fine milling shall be checked to assure a uniform pavement texture that is true to line, grade, and cross section.

Fine milled pavement surfaces are subject to visual and straightedge inspections by the Engineer at any time during the milling operation. The final fine milled surface shall be a uniform finish on the grade and slope shown to be required on the plans. The finished surface shall also not vary more than ¼" from a 10-foot straightedge placed anywhere on the surface of the milled area.

The cross slope shall be checked to assure uniformity and that no depressions or slope misalignments exist when the slope is tested with a straightedge placed perpendicular to the center line.

Dust, residue, and loose milled material shall be removed from the fine milled surface. Traffic shall not be allowed on the milled surface nor any asphalt placed on the milled surface until removal is complete.

**907-406.04--Method of Measurement.** Delete the paragraph in Subsection 406.04 on page 280, and substitute the following.

Cold milling of pavement and shoulders, all depths, will be measured by the square yard, cubic yard (LVM), or ton as indicated in the contract. Loading, hauling, and disposal will not be measured for separate payment.

Fine milling of the specified pavement will be measured by the square yard, cubic yard (LVM), or ton as indicated in the contract. Loading, hauling, and disposal will not be measured for separate payment.

Fine milling to repair failed areas in Open Graded Friction Courses will not be measured for payment unless authorized by the Engineer.

**907-406.05--Basis of Payment.** Delete the first and second paragraphs of Subsection 406.05 on page 280, and substitute the following.

Cold milling of pavement and shoulders, all depths, measured as prescribed above, will be paid for at the contract unit price per square yard, cubic yard (LVM) or ton, as indicated, which price shall be full compensation for completing the work.

Fine milling, measured as prescribed above, will be paid for at the contract unit price per square yard, cubic yard (LVM) or ton, as indicated, which price shall be full compensation for completing the work.

When not shown as a separate pay item in the contract, the price for each item of milling shall include the cost of continuous maintenance of traffic and protective services as required by the Department's Traffic Control Plan, including all required individual traffic control devices.

Delete the pay items listed on page 280 and substitute the following.

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|---|---|
| 907-406-A: Cold Milling of Bituminous Pavement, All Depths  | - per square yard,<br>cubic yard or ton |
| 907-406-B: Cold Milling of Concrete Pavement, All Depths    | - per square yard,<br>cubic yard or ton |
| 907-406-C: Cold Milling of Shoulders, All Types, All Depths | - per square yard,<br>cubic yard or ton |
| 907-406-D: Fine Milling of Bituminous Pavement, All Depths  | - per square yard,<br>cubic yard or ton |
| 907-406-E: Fine Milling of Concrete Pavement, All Depths    | - per square yard,<br>cubic yard or ton |
| 907-406-F: Fine Milling of Shoulders, All Depths            | - per square yard,<br>cubic yard or ton |