

ITEM 04502.4597 M ASPHALT CONCRETE JOINT IN EXISTING PAVEMENT

DESCRIPTION: Under this item the Contractor shall cut existing pavement, curbs, and gutters; remove and dispose of such materials; and place asphalt concrete joint according to the plans or specifications and as approved by the Engineer.

MATERIALS: Asphalt concrete used in this item shall meet the requirements of Subsection 403-2, Asphalt Concrete - Type 6, 6F, or 7, 7F, 7FX Top Course as shown on the plans, Asphalt Concrete - Type 1 Base Course, and Asphalt Concrete - Type 3 Binder Course. Asphalt emulsion shall meet the requirements of material designation 702-3001, 702-3401, 702-3601, or 702-4501.

CONSTRUCTION DETAILS: The pavement shall be cut in a single, full depth pass perpendicular to the surface and in a straight line across the full width of the pavement as detailed in the plans. The cut shall be made with an approved power rotary rock and concrete cutter or power saw to produce a neat cut without excessive shatter beyond the cut lines as determined by the Engineer. At joint locations with adjacent curbs or gutters, the curb and gutter shall be saw cut unless the Contractor can demonstrate that the rotary rock cutter will produce satisfactory results. All cutting shall be accomplished by the downward pass of the cutting teeth so that roadway elements which are to remain are not damaged. Any damage by the Contractor's operations shall be repaired by him in a manner approved by the Engineer at no additional cost to the State.

The pavement shall then be removed with minimum disturbance to the remaining pavement, subbase, and shoulders. The subbase shall be leveled and compacted to a firm base in a manner approved by the Engineer prior to the placement of the asphalt concrete. The removed material shall become the property of the Contractor and be disposed of by him at locations and in a manner approved by the Engineer.

All contact surfaces around the perimeter of the joint shall be painted with a uniform coating of Asphalt Emulsion. The application of the asphalt emulsion shall be made to a clean and dry surface at a rate as ordered by the Engineer.

The construction details for the asphalt concrete shall comply with the requirements specified in Subsections 401-3.01 through 401-3.15, except as modified by the following:

Unless indicated otherwise in the contract documents, the asphalt concrete pavement shall be a minimum of 2.0 meters wide and not less than 150 mm inches wider than the roller drum width selected for use by the Contractor. The asphalt concrete material shall be compacted transversely across the pavement by a self-propelled dual drum vibratory roller appearing on the Department's current Approved List -- Bituminous Concrete Vibratory Compaction Equipment.

The roller shall be capable of achieving 95% of Marshall density. Walk behind dual drum vibratory rollers having a minimum drum width of 600 mm wide are considered acceptable for this work, provided that they have demonstrated that they are capable of achieving the required 95% Marshall density according to written Departmental instructions. A minimum of six (6)

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passes shall be required over each lift of bituminous material. Additional passes may be required by the Engineer.

In areas not accessible to the roller, the joint material shall be thoroughly compacted with mechanical tampers as directed by the Engineer. However, this method of compaction shall be kept to an absolute minimum.

Unless otherwise specified in the contract documents, Type 1 Dense Base shall be placed to a compacted thickness of 200 mm (two 100 mm lifts), and Type 3 Dense Binder shall be placed to a compacted thickness of 65 mm. When the lifts of Dense Base and Dense Binder have been placed and compacted, a final 40 mm lift of Type 6, 6F or 7, 7F, 7FX Top Course shall be placed and compacted so that it is level with the top of the existing pavement. Thinner lifts shall be placed if heat retention affects maintenance of traffic scheduling.

Cut-out curbs and gutters shall be replaced with asphalt concrete formed to the approximate original shape of those elements.

METHOD OF MEASUREMENT: This work will be measured as the number of meters of asphalt concrete joint installed in existing pavement measured transversely across the pavement along the centerline of the joint to the nearest meter.

BASIS OF PAYMENT: The price bid per meter shall include the cost of furnishing all labor, equipment, and material necessary to satisfactorily complete the work.

DISAPPROVED BY E109-0016