

ITEM 18403.88 M - REPAIR DEFECTIVE AC OVERLAY AND PCC UNDERLYING PCC JOINTS

DESCRIPTION

This work shall consist of removing defective asphalt concrete (AC) overlay and portland cement concrete (PCC) at underlying PCC pavement joints and replacing it with asphalt concrete. Defective joints shall be either indicated on the contract plans or by the Engineer prior to the beginning of work. The Contractor shall schedule his operations so that the repairs made at each designated area are completed within the time allotted for closing traffic lanes.

MATERIALS

The materials and composition for the asphalt concrete shall meet the material requirements specified for Item 403.21 Asphalt Concrete-Truing and Leveling Course, except that high friction aggregates and Marshall Mix Design as specified for Type 6F or Type 7F top mixes shall not be required. Tack coat used under this item shall meet the requirements of Table 702-9 Asphalt Emulsion Tack Coat in the NYSDOT Standard Specifications.

CONSTRUCTION DETAILS

Straight lines shall be chipped with chipping hammers, saw cut or milled through the depth of the existing AC overlay along the perimeter of the designated repair areas. If saw cut with a concrete saw, defective AC and PCC material within the cut perimeter shall be removed with chipping hammers (Section 580-3.02). If milled with a milling machine, the machine shall be equipped to suppress airborne particles. Severely cracked, delaminated and loose AC overlay and PCC material above and surrounding underlying joints within the designated repair area shall be removed. If removal of portland cement concrete is deemed necessary by the Engineer it shall be to a depth AOB with a limit of 75 mm in depth to avoid encountering load transfer devices.

All defective material chipped or milled from the designated work areas shall be removed and disposed of by the Contractor in a disposal area approved by the Engineer. The exposed surfaces within the designated work areas shall then be cleaned of dust and debris and thoroughly dried to the satisfaction of the Engineer before being tack coated. Tack coat shall uniformly be applied AOB. Tack coat or asphalt concrete repair shall be placed only when ambient and surface temperature are above 7°C and exposed surfaces are dry. After the surfaces have been tack coated, AC concrete shall be placed and compacted in the prepared work area. The minimum AC placement temperature shall be 121°C.

If the total patch depth is greater than 75 mm, the patch shall be compacted in lifts of approximately equal thickness, each lift not to exceed 75 mm. When compacted in lifts, the lower lifts shall be thoroughly compacted with mechanical tampers as directed by the Engineer. The top lift shall be thoroughly compacted with a small vibratory roller approved by the

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Engineer or by a drum roller meeting the requirements of section 401-3.06 of the Standard Specifications. The asphalt concrete shall be overfilled slightly for compaction to prevent bridging by the roller. The resulting compacted patch shall be dense, smooth and no more than 6 mm above the existing surface.

METHOD OF MEASUREMENT

The quantity to be measured under this item shall be the number of square meters of existing pavement repaired.

BASIS OF PAYMENT

The unit price bid per square meter shall include the cost of furnishing all labor, materials and equipment necessary to complete the work. Cleaning, sealing and filling joints and cracks in the underlying PCC pavement will be paid for under its appropriate pay item.

This specification is
DisApproved