

SPECIAL NOTE FOR ULTRA THIN PCC INLAY

This Special Note will apply when indicated on the plans or in the proposal. Inclusion of this note indicates sufficient evaluation of the inlay area was performed to ensure the existing asphalt pavement thickness is sufficient to accommodate the PCC inlay (minimum of 4 inches of asphalt will remain after milling). Section references herein are to the Department's Standard Specifications for Road and Bridge Construction, current edition.

1.0 DESCRIPTION. This Special Note covers requirements for placement of an ultra thin PCC inlay as shown on the plans.

2.0 MATERIALS.

2.1 JPC Pavement/24. Conform to Section 502, JPC pavement/24, with the following exceptions;

- 1) Minimum compressive strength – 3,000 psi
- 2) Maximum slump for concrete mix is one inch when slip forming.
- 3) Add synthetic fibers to the JPCP/24 at a dosage rate of 3 pounds per cubic yard in accordance with manufacturer's recommendations.

2.2 Synthetic Fibers. Provide Type III Synthetic Fibers conforming to ASTM C 1116.

3.0 CONSTRUCTION. Conform to Section 502, JPC pavement/24, with the following exceptions and additions.

3.1 Preparation of the Inlay Area. See drawings for dimensions and location of the inlay. Mill the inlay area according to Section 408 except provide a neat clean vertical saw cut edge at the asphalt pavement/inlay interface. Unless the plans specify otherwise, provide a nominal depth of 4 inches, except construct a transition section to provide a panel with a nominal depth of 6 inches for the exit/entrance panels and any transition longitudinal panels receiving traffic. Allow a minimum of 6 feet for transitioning from the 4-inch to 6-inch depth. Avoid addition of asphalt mixture to the inlay area. Ensure the milled asphalt surface of the inlay area is dry. Clean the area with compressed air immediately prior to placing concrete.

3.2 4-inch JPC Pavement Inlay. Place the JPC pavement/24 in the prepared inlay area. Permit central mixing or truck mixing of the JPC pavement/24. The Department will allow hand finishing. Immediately after finishing, texture the surface by providing transverse grooves in accordance with Section 501.03.13.H). Conform to the weather limitations and protection according to Section 501.03.05 except as modified. Cover the JPC pavement/24 with insulated blankets to provide initial cure when the ambient air temperature is below 60 °F. No other insulation will be permitted. Avoid placing JPC pavement/24 when the surface of the inlay area exceeds 90 °F.

3.3 Joint Construction. Saw transverse contraction and expansion joints spaced at 4-foot intervals at right angles. Space longitudinal joints at 4-foot intervals. Provide joints with a 1/8 inch width using a green cut concrete saw to a depth of one inch except cut transition and thickened slab areas to 1/3 the slab thickness. Saw as soon as concrete has hardened sufficiently to permit sawing without excessive raveling. Clean joints of all

deleterious material immediately after sawing. Prevent cuttings from entering adjacent joints. The Department will not require joint sealing.

4.0 MEASUREMENT. The Department will measure the quantity of ultra thin PCC inlay according to Subsection 502.05. The Department will not measure the transition areas separately and will consider them ultra thin PCC inlay for payment.

5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02019	JPC Pavement-4 inch/24	Square Yard

August 23, 2012