

CRACKING AND SEATING OF PCC PAVEMENT

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393.1 DESCRIPTION

The work consists of cracking and seating concrete pavement prior to placing an asphalt concrete leveling course.

393.2 MATERIALS (Not Specified)

393.3 CONSTRUCTION REQUIREMENTS

A. General: Cracking and seating shall proceed continuously, during normal work hours, until the set of lanes under construction is completed. The pavement shall be seated on the same working day that it is cracked. The asphalt concrete leveling course shall be placed within 72 hours after the pavement has been cracked and seated. PCC pavement crossovers shall be cracked with the same pattern used for the driving lanes.

Work shall be performed during daylight hours.

Prior to cracking the concrete pavement, existing asphalt concrete overlays shall be removed.

B. Equipment:

1. Pavement Breaker: Pavement cracking shall be accomplished with a spade or guillotine type breaker mounted on a vehicle capable of controlled forward and transverse movement. The breaker shall be capable of fracturing the pavement to the full depth, while maintaining the fractured face interlock of the aggregate.

2. Roller: A pneumatic roller with a minimum loaded weight of 35 ton shall be used to seat the cracked pavement.

C. Cracking Locations: Pavement cracking shall be performed transverse to centerline at 2 foot intervals \pm 6 inches. Breakers shall not be operated closer than 2 feet from an existing transverse joint. Cracking shall be full pavement depth without loss of interlock.

D. Test Section: Before routine cracking operations commence, the Contractor shall demonstrate on a 200 foot test section on the project that the cracking and seating procedure is satisfactory to the Engineer. When inspecting the cores for cracking, it may be necessary to wet the core to verify cracking.

The Contractor shall core or saw samples of sufficient size to establish adequacy of cracking. A minimum of four samples will be required in the test section and one sample per lane mile for routine operations.

If subsequent samples indicate that the established cracking procedure is not producing acceptable results, additional test sections may be required to re-establish an acceptable cracking and seating procedure.

- E. **Seating:** The cracked pavement shall be seated by a minimum of two passes with the pneumatic roller. If two roller passes have not provided a firm seating of the cracked pavement, the rolling shall continue until the Engineer determines that the seating is adequate or pavement removal is required.
- F. **Cleaning:** The cracked and seated pavement shall be cleaned of dirt, spalls, and loose material by power brooming prior to tack coating. The cracked surface shall be cleaned of loose material at the end of each working day.

393.4 METHOD OF MEASUREMENT

- A. **Cracking and Seating PCC Pavement:** Cracking and seating PCC pavement will be measured to the nearest 0.1 square yard.
- B. **Cored or Sawed Sample:** Cored or sawed sample will be measured per each.

393.5 BASIS OF PAYMENT

- A. **Cracking and Seating PCC Pavement:** Cracking and seating PCC pavement will be paid for at the contract unit price per square yard and shall be inclusive of cracking, seating, test strips, surface cleaning, and all tools, equipment, and labor necessary to perform the work.
- B. **Cored or Sawed Sample:** Cored or sawed sample will be paid for at the contract unit price per each and will include all tools, equipment, and labor necessary to perform the work. If additional cores or sawed samples are required because previous samples indicated unacceptable results, the additional cores will be at the Contractor's expense.