

SECTION 32 12 33

CRACK SEALING

PART 1 – GENERAL

1.01 WORK INCLUDED

Work specified in this section includes the filling of all cracks ¼-inch wide and larger in existing asphalt pavement surfaces. Crack Sealing shall be performed prior to application of slurry seal and elsewhere whenever so specified in the Special Provisions or shown on the Project Plans.

1.02 RELATED REQUIREMENTS

- A. Section 16, "Paving and Surfacing"
- B. Section 18, "Slurry Seal"
- C. Section 19, "Traffic Striping and Signing"
- D. Section 21, "Minor Concrete"
- E. Standard Drawing S-19, "Sidewalk Repair Requirements"

1.03 REFERENCE STANDARDS

American Association of State Highway Transportation officials (AASHTO). State Standard Specification, July 1995.

1.04 QUALITY ASSURANCE

Not used.

1.05 MEASUREMENT AND PAYMENT

- A. Measurement and payment for crack sealing either will be included in the applicable unit price for asphalt concrete or slurry seal or payment will be made on a separate lump sum basis. Payment will include costs for all work and materials specified herein.

PART 2 – PRODUCTS

2.01 CRACK FILL MATERIAL

Crack sealant material shall be asphalt-vulcanized rubber material conforming to the following requirements:

- A. The asphalt shall have a maximum penetration of 150 when tested in accordance with the procedure specified by the applicable AASHTO specification.
- B. The granulated curb rubber (100% vulcanized) shall meet the following requirements:

PASSING SIEVE	PERCENT
No. 8	100
No. 10	98 - 100
No. 40	0 - 100

The sieves shall comply with the requirements of AASHTO 92. The specific gravity of the granulated curb rubber shall be 1.15 plus/minus 0.02 and shall be free of fabric, wire or other contaminated materials, except that up to four percent of calcium carbonate may be included to prevent particles from sticking together.

Rubber materials shall be packaged in boxes of approximately 60-lb. weight, with a polyethylene liner. The boxes shall be placed on pallets and covered with a weather resistant covering. Equipment used by the Contractor shall be specifically manufactured for this purpose. The crack machine shall be a Crafcro Model 200 or approved equal. Heated rubberized crack seal machine shall be a Crafcro Model BC-220 or an approved equal.

PART 3 – EXECUTION

3.01 PREPARATION

- A. Prior to application of hot asphalt-rubber sealant, joints and cracks shall be cleaned to remove dust, dirt, moisture and foreign material or old sealant. All cracks shall be routed to a nominal width of 1/2-inch and 3/4-inch nominal depth.
- B. Asphalt-rubber sealant material shall be unboxed and placed in joint and crack sealing machine for heating and mixing. The asphalt-rubber shall be heated to a minimum temperature of 300 degrees F. The material shall be held in the mixing tank at application temperature until very little separation of the rubber and asphalt occurs when a bead of sealant material is placed on the pavement. Sealant material may be added to the mix as long as the minimum temperature of 300 degrees F is maintained.

3.02 APPLICATION

- A. Cracks shall be sealed from the bottom up. Sealant material shall be applied so it is flush with the surface.
- B. Traffic shall not be allowed on the material until it has cured or until it has been sanded to prevent tracking.

-END OF SECTION-