

SECTION 509 JOINT REHABILITATION

509.01 Description. This item shall consist of sawing and cleaning existing transverse and longitudinal joints in portland cement concrete pavement, patches, approach slabs, and bridge decks, and filling and sealing the prepared joints with approved material according to these specifications and the details shown on the plans.

509.02 Materials. Joint filler and joint sealer shall comply with subsection 501.02(h).

509.03 Construction Requirements. Joint Rehabilitation shall comply with the construction requirements of subsection 501.05(j) and the following:

Existing joints shall be sawed to expose a new concrete face, free of any joint sealer, and to provide a sealer reservoir. Joints shall be sawed to a sufficient depth to accommodate the joint sealer and backer rod as shown on the plans. Any existing joint inserts, regardless of type or material, that interfere with joint rehabilitation shall be removed. Any debris resulting from the removal of the inserts shall be disposed of according to Section 201.

No joints, except those for concrete pavement patches, shall be sawed after December 1 and before March 1, without written permission of the Engineer.

All joints, except those for concrete pavement patches, shall be sealed within 15 calendar days after sawing. All joints shall be sealed before opening the pavement to traffic.

Type A Joint Rehabilitation shall include contraction joints in existing concrete pavement, patches, approach slabs, and joints in the decks of concrete slab span bridges. Contraction joints shall be sawed a minimum width as shown on the plans and cleaned, filled, and sealed with Type 3 or 4 joint sealer. Contraction joints in patches shall be sawed according to the details shown on the plans and cleaned, filled, and sealed with Type 3 or 4 joint sealer. Bridge deck joints shall be sawed a minimum of the existing joint width plus 3 mm (1/8") and cleaned, filled, and sealed with Type 3 or 4 joint sealer.

Type B Joint Rehabilitation shall include all warping and longitudinal joints in existing concrete pavement, patches, and approach slabs. Joints of this type in existing pavement shall be

sawed a minimum of the existing joint width plus 3 mm (1/8") and cleaned, filled, and sealed with Type 3, 4, 5 or 6 joint sealer. Joints of this type in patches shall be sawed according to the details shown on the plans and cleaned, filled, and sealed with Type 3, 4, 5, or 6 joint sealer.

Type C Joint Rehabilitation shall apply to expansion joints. Existing expansion joints that are 90 mm (3½) or greater in width shall be thoroughly cleaned to remove all existing joint filler and sealer. Existing expansion joints that are less than 90 mm (3½) in width shall be sawed full depth to a minimum width of 100 mm (4") and thoroughly cleaned to remove all joint filler and sealer. Following cleaning and preparation, the expansion joints shall be filled with Type 1 joint filler.

Type D Joint Rehabilitation shall include the joints around the area of concrete pavement patches that are not bounded by normal longitudinal or transverse joints. These joints shall be sawed along the joint created by the concrete pavement patch. The joints shall be sawed to the details shown on the plans. These joints shall be cleaned and sealed with Type 3, 4, 5, or 6 joint sealer.

509.04 Method of Measurement. Joint Rehabilitation will be measured by the meter (linear foot).

509.05 Basis of Payment. Work completed and accepted and measured as provided above will be paid for at the contract unit price bid per meter (linear foot) for Joint Rehabilitation of the type specified, which price shall be full compensation for sawing and cleaning joints; for removal and disposal of existing inserts; for furnishing and placing all materials; and for all labor, equipment, tools, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Joint Rehabilitation (Type___)

Pay Unit

Meter (Linear Foot)