

503-R-516 PCCP STITCHING

(Revised 04-08-09)

The Standard Specifications are revised as follows:

SECTION 503, AFTER LINE 237, INSERT AS FOLLOWS:

503.07 PCCP Stitching

This work shall consist of drilling holes in PCCP across cracks prior to installing epoxy coated reinforcing tie bars with a chemical anchor system to provide load transfer and tie the cement concrete pavement together.

The type, size, and length of the tie bars shall be as shown on the plans. The location, angle, size, and depth of the holes shall be as shown on the plans. The tie bars shall be placed so there is an equal length of bar embedded in the adjacent slabs without protruding through the bottom of the slab. The minimum depth of cover from the pavement surface to the tie bar shall be 2 in. (50 mm). Tie bars shall be installed on the day the holes are drilled.

The drills used for making the holes shall be hydraulic percussive type and shall be mounted on a rigid frame to provide proper position and alignment. The Contractor shall exercise care in drilling holes for the placement of the tie bars. Damage to any pavement shall be repaired as directed by the Engineer.

Prior to injecting the chemical anchor system the drilled holes shall be blown clean with compressed air using a device that will reach to the bottom of the hole to ensure that all debris or loose material has been removed.

The chemical anchor system shall be in accordance with 901.05 and installed in accordance with the manufacturer's recommendations. Immediately after installation of the bar, the top of the hole shall be filled with chemical anchor system material or cut to leave the chemical anchor system level with the existing pavement.

(a) Transverse

Random cracks shall be corrected by stitching. The stitching shall extend along the entire length of the crack in the PCCP.

(b) Longitudinal

Random cracks shall be corrected by stitching. The stitching shall extend along the entire crack in the PCCP. The spacing of the stitches shall be adjusted so that a stitch shall not be located within 9 in. (225 mm) of a D-1 contraction joint.

SECTION 503, BEGIN LINE 238, DELETE AND INSERT AS FOLLOWS:

503.07 503.08 Method of Measurement

SECTION 503, AFTER LINE 243, INSERT AS FOLLOWS:

PCCP stitching will be measured by the number of bars installed.

SECTION 503, LINE 244, DELETE AND INSERT AS FOLLOWS:

503.08 503.09 Basis of Payment

SECTION 503, AFTER LINE 250, INSERT AS FOLLOWS:

PCCP stitching will be paid for at the contract unit price per each, complete in place.

SECTION 503, AFTER LINE 255, INSERT AS FOLLOWS:

PCCP Stitching EACH

SECTION 503, AFTER LINE 271, INSERT AS FOLLOWS:

The cost of drilled holes, epoxy coated reinforcing bars, chemical anchor system, and all necessary incidentals shall be included in the cost of PCCP stitching.
