

Revision of Section 518 Sawing And Sealing Bridge Joint

Revise Section 518 of the Standard Specifications for this project as follows:

Description

This work consists of furnishing and installing backer rod and silicone joint sealant in a single saw cut on polyester concrete overlay, at locations designated in the plans or as directed by the Engineer.

For replacement of existing joints, this work also includes removal of joint seal and cleaning of the joint.

Materials

The materials shall conform to the requirements set forth in Subsection 705.01 (a) Joint Sealant with Backer Rod.

Construction Requirements

At least 10 working days prior to starting the work, the Contractor shall submit a Methods Statement to the Engineer for review of the joint removal, cleaning, saw cutting/forming, and replacement in accordance with the manufacturer's recommendations, these specifications, and the details shown in the plans. The Methods Statement shall include manufacturer's literature and describe in detail the phasing of the joint replacement, the list of all materials and sizes, method of establishing and maintaining the location of the existing joint, and the method of securing and formwork needed to achieve the plan details.

The methods and equipment used for the sawing and sealing shall be approved by the Engineer prior to the beginning of work. The Contractor shall take all steps necessary to avoid damage to the concrete to remain in place. Any concrete damaged by the Contractor's operation shall be repaired or replaced at the Contractor's expense. No adjustment to Contract time will be made for such repair or replacement.

The Contractor shall demonstrate successful installation of one joint before continuing to the remaining joints.

The silicone sealant shall seal the bridge polyester concrete overlay surface as indicated in the plans.

For replacement of existing joints, the sealant material shall be completely removed. The joints shall be cleaned of loose and foreign matter to the full depth of the overlay immediately prior to installation. Any compressed air used shall be filtered and oil-free. Backer rod and silicone sealant shall be installed in the joint.

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For new polyester concrete overlays, the overlay shall be saw cut with a single pass or formed at existing joint locations, and backer rod and silicone sealant shall be installed in the joint. Saw cut or formed joints shall penetrate the full depth of the polyester concrete overlay regardless of the polyester concrete overlay thickness. Joints at the back face of abutment shall be saw cut. All other joints shall be either formed prior to placement of overlay or saw cut as approved by the Engineer. The joints shall be cleaned of loose and foreign matter to the full depth of the overlay immediately prior to installation. Any compressed air used shall be filtered and oil-free. Backer rod and silicone sealant shall be installed in the joint.

Sawing and sealing the bridge joints shall be completed full width and shall be aligned directly above the intended location noted above and as shown in the plans. Prior to placing the new overlay, these locations shall be recorded and marked in a location that will not be disturbed by construction operations. Upon completion of the overlay, the joint location shall be established, saw cut and sealed in accordance with the silicone manufacturer's recommendations. The timing of the saw cut shall be per Revision of Section 519 Thin Bonded Overlay (Polyester Concrete).

Method of Measurement

Sawing and Sealing Bridge Joint will be measured by the actual quantity completed and accepted.

Basis of Payment

The accepted quantity of Sawing and Sealing will be paid for at the contract unit price.

Payment will be made under:

Pay Item	Pay Unit
Sawing and Sealing Bridge Joint	Linear Foot

Payment for Sawing and Sealing Bridge Joint will be full compensation for all labor, materials, tools, equipment and incidentals required to complete the item.

Instructions to Designers (delete instructions and symbols from final draft):

Use this project special provision when installing new or replacing existing silicone sealant on polyester concrete overlays.

Use 408 Joint Sealant, hot poured at abutments prior to placing the polyester concrete overlay.

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Permanent Changes to Project Dated Special Provisions

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<u>Date</u>	<u>Author</u>	<u>Description of Change</u>
1/14/19	BPM Cons.	Initial Website Issue
04.11.2023	M. Kayen	Revisions to make spec online accessibility-compliant. 5.22.23 Additional accessibility work.