

SECTION 00538 - CRACK INJECTING EXISTING BRIDGES

(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [purple text] above a subsection, paragraph, sentence, or bullet, then include it in the project. Delete all purple text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)

Comply with Section 00538 of the Standard Specifications modified as follows:-

00538.01 Submittals - Replace the bullet that begins "Describe the Materials ..." with the following bullet:

- Describe the Materials to be used including the properties of each Material and the Specifications that the Materials comply with. Published manufacturer data is acceptable.

00538.30 Personnel Qualifications - Replace the paragraph that begins "Provide personnel skilled in ..." with the following paragraph:

Provide personnel skilled in the application of epoxy crack injection. Show experience relevant to anticipated conditions, Materials, and construction techniques for epoxy crack injection. Provide an on-site epoxy crack injection supervisor that has successfully completed at least three projects within the past 5 years.

00538.42 Acceptance - Replace the paragraph that begins "Crack injection Work ..." with the following paragraph:

Crack injection Work is accepted visually by determining that the epoxy resin has set and cured and that all cracks are sealed. If visual inspection reveals suspected failures, the Engineer will require cores samples. When required, provide 2-inch minimum diameter by 6-inch minimum depth core samples. The Engineer will determine the number of core samples and the locations to take the core samples. Take core samples at least 24 hours after the crack injection Work. When the crack injection Work is performed on only one side of the girder, take the core sample from the opposite side of the girder. When obtaining core samples, do not cut or damage existing steel reinforcement. Fill core holes with a PCC repair material.

Replace the paragraph that begins "If core samples show fully ..." with the following paragraph:

If core samples show fully hardened epoxy resin and at least 90 percent of the crack is filled, the crack injection Work for that crack is accepted. If core samples show inadequately hardened or inadequately filled cracks, stop all crack injection Work. Submit a revised crack

injection procedure to the Engineer. Do not resume crack injection Work until the revised crack injection procedure has been approved by the Engineer.

00538.90 Payment - Replace the paragraph that begins "Payment will be payment ..." with the following paragraph:

Payment will be payment in full for furnishing and placing all Materials, and for providing all Equipment, labor, and Incidentals necessary to complete the Work as specified.