

TABLE OF CONTENTS

- A. Construction Requirements
- B. Dewatering
- C. FRP Pile Jacketing System

	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 W. CAPITOL AVE. JEFFERSON CITY, MO 65101 Phone (888) 275-6636
	If a seal is present on this sheet, JSP's has been electronically sealed and dated.
	JOB NO. J7P3528 Henry County, MO Date Prepared: 11/14/2023
Only the following items of the Job Special Provisions (Bridge) are authenticated by this seal: All	

A. CONSTRUCTION REQUIREMENTS

1.0 Description. This provision contains general construction requirements for this project.

2.0 Construction Requirements. The plans and the asbestos and lead inspection report for the existing structure(s) and the geotechnical report for the new structure(s) are included in the contract in the bridge electronic deliverables zip file for informational purposes only.

2.1 In order to assure the least traffic interference, the work shall be scheduled so that the bridge closure is for the absolute minimum amount of time required to complete the work. The bridge shall not be closed until material is available for continuous construction and the contractor is prepared to diligently pursue the work until the closed bridge is opened to traffic.

2.2 Provisions shall be made to prevent any debris and material from falling into the waterway. If determined necessary by the engineer, any debris and material that falls below the bridge outside the previously specified limits shall be removed as approved by the engineer at the contractor's expense.

2.3 Provisions shall be made to prevent damage to any existing utilities. Any damage sustained to the utilities as a result of the contractor's operations shall be the responsibility of the contractor. All costs of repair and disruption of service shall be as determined by the utility owners and as approved by the engineer.

3.0 Method of Measurement. No measurement will be made.

4.0 Basis of Payment. Payment for the above described work will be considered completely covered by the contract unit price for other items included in the contract.

B. DEWATERING

1.0 Description. This provision covers dewatering the site as necessary to provide a suitable condition for construction of the pile encasements as approved by the engineer. This work will only be performed at the discretion of the engineer and will be underrun if not required by the engineer. If the engineer determines it necessary to provide dewatering, the work shall be performed in accordance with [Sec 206](#) and this job special provision.

2.0 Construction Requirements. Dewatering shall provide a dry work area suitable to construct the pile encasements within specifications, as approved by the engineer. Typical dewatering methods consist of, but are not limited to, construction of cofferdams, seal courses, over excavation, well point systems, dewatering and drainage diversion. Any dewatering method utilized shall conform to all environmental laws and regulations.

3.0 Method of Measurement. No measurement will be made.

4.0 Basis of Payment. Payment for dewatering will be made regardless of which dewatering means is utilized. No payment will be made if the work area is not maintained in a dewatered state as approved by the engineer. The lump sum payment for dewatering will be considered full compensation, and no time extensions will be made regardless of which means and methods are utilized by the contractor.

C. FRP PILE JACKETING SYSTEM

1.0 Description. This work shall consist of providing and installing a fiber reinforced polymer (FRP) pile jacketing system for all piles at bents 2 and 3 in accordance with this specification and the manufacturer's requirements. Simpson Strong-Tie FX-70 pile jacketing system is pre-approved. It is our intent that the installation of the pile jacketing system will not require dewatering of the piling.

2.0 Materials. All materials for the pile jacketing system shall be per the manufacturer's specification. There shall be no mixing of components from different pile jacketing systems. Materials shall be clearly labeled and delivered in factory-sealed containers with the manufacturing dates and shelf lives easily identifiable.

2.1 Pile Jacket. Pile jacket shall be made of FRP and be an H shape to minimize the amount of grout usage. The jacket size shall be per the manufacturer's specification for HP 14 x 73 steel piles. The jacket must provide for watertight sealing of the grout material for long term protection of the pile. The jacket shall use spacers to provide proper spacing and alignment of the jacket to the pile.

2.2 Fasteners. All fasteners shall be stainless steel.

2.3 Grout Material. The grout filler for the pile jacketing system shall be a marine grade epoxy grout that can be placed under water. The grout shall be poured to the top of jacket while displacing any water that may be in the jacket at the time of pouring. Injection ports and pumping may be needed to facilitate grout placement. The grout shall be finished with a bevel that will drain water away from the pile.

2.4 Epoxy Sealer. An epoxy sealer shall be applied to the finished grouted surface at the top and bottom (if exposed) of the jacket and pile interface to assure a watertight seal. The sealer shall overlap the jacket and pile. This epoxy sealer shall be in accordance with Sec 1059.20.

3.0 Construction Requirements. A representative of the manufacturer shall be present at the time of installation to ensure that the surface conditions, materials and installation procedures meet the manufacturer's requirements.

3.1 Extent of Encasement. The pile jacket shall extend from the streambed up to the same height as the alternate concrete encasement as detailed in the contract plans.

3.2 Surface Preparation. The area of the pile to be jacketed shall be cleaned in accordance with Sec 1081.5 including power washing and hand tool cleaning.

4.0 Method of Measurement. No measurement will be made.

5.0 Basis of Payment. Payment for the above described work, including all material, equipment, labor and any other incidental work necessary, will be considered completely covered by the contract unit price for Pile Encasement.