

**KANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION TO THE  
STANDARD SPECIFICATIONS, 2015 EDITION**

**Add a new SECTION in DIVISION 1900.**

**FIBERGLASS PIPES AND FITTINGS**

**1.0 DESCRIPTION**

This specification covers fiberglass pipes and fittings for use in bridge drainage systems.

**2.0 REQUIREMENTS**

Provide reinforced thermosetting resin pipe system that complies with the ASTM D2996 RTRP-12EA1-2122 for filament-wound, glass fiber reinforced, and polyester pipe having a reinforced polyester liner. Include UV inhibitors throughout the wall of the pipe and fittings. Unless shown otherwise in the contract, provide pipe with a wall thickness not less than 0.125 inches.

Use pigmented resin throughout the wall thickness. Color to be concrete grey or as shown in the Contract Documents. Paint, gel-coated or exterior coating will not be accepted.

Manufacture the reinforced fiberglass tubing of a resin liner formed on a steel mandrel. The filament wound portion that consist of continuous glass strand roving wound at a low angle helix and impregnated with resin with a glass to resin ratio of 70:30.

Manufacture fittings and elbows using smooth steel radius molds. Pipe, and fitting, shall come from the same manufacturer. Bonding agents shall be certified by the pipe manufacturer as suitable for their product's formulation.

Use 45 degree cleanouts with a threaded PVC plug on the top side of horizontal runs and on the outside for vertical runs and in a direction which forces the materials out of the system in the direction of flow.

**3.0 TEST METHODS**

Test materials in accordance with the ASTM standards cited in **subsection 2.0**.

**4.0 PREQUALIFICATION**

None required.

**5.0 BASIS OF ACCEPTANCE**

Acceptance of fiberglass pipes will be made on the basis of receipt and approval of a Type D certification as specified in **DIVISION 2600**, and visual inspection for condition.

06-12-15 C&M (CFN)

Sept-15 Letting