

MICHIGAN  
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION  
FOR  
**PIPE ALTERNATE FOR CULVERT CLASSES FOR ROADWAYS WITH AVERAGE  
DAILY TRAFFIC OF 20,000 OR LESS**

STM:TRK

1 of 1

APPR:DMG:KAS:04-30-20

FHWA:APPR:05-06-20

**a. Description.** This work consists of the use of corrugated polyethylene pipe (CPE) or polypropylene pipe (PPP) at the locations shown on the plans. Complete this work in accordance with subsection 401.03 of the Standard Specifications for Construction, except as modified herein for culvert Class A and F applications.

**b. Materials.** Provide CPE in accordance with *AASHTO M294, Type S*. CPE with diameters greater than 36 inches up to 48 inches must be tested for acceptance at a rate of one sample for every 1000 feet of pipe. A sample must come from a single 20-foot-long section of pipe and must include three pieces with a length equal to or greater than the diameter, one piece at least 60 inches long and the necessary pieces to assemble a joint with at least 6 inches of pipe protruding from each end of the joint. Mark all pieces of each sample so that they can be identified as coming from the same section of pipe.

Provide PPP in accordance with *AASHTO M330, Type S*. PPP with diameters greater than 36 inches up to 48 inches will be accepted by Test Data Certification in accordance with subsection 2.01.03 of the *Materials Quality Assurance Procedures Manual*.

Use a single manufacturer's complete system of pipe and joint, including the gasket. Below is a list of products that the Department is aware of that meet the required criteria:

Advanced Drainage Systems HP Storm Polypropylene Pipe  
Advanced Drainage Systems N-12® Polyethylene Pipe  
Haviland Smooth Flow Polyethylene Pipe  
Prinsco GoldFlo WT® Polyethylene Pipe

CPE or PPP material is allowed for culvert use in Class A and F applications for pipe 48 inches in diameter and less.

**c. Construction.** Construct CPE or PPP in accordance with the requirements for Corrugated Polyethylene Pipe in subsection 401.03 of the Standard Specifications for Construction.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the pay items defined in subsection 401.04 of the Standard Specifications for Construction.