

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
REVISIONS TO PRECAST THREE-SIDED, ARCH, AND BOX CULVERTS

STR:MJF

1 of 1

APPR:DMG:REL:01-23-24
FHWA APPR:01-25-24

Delete the first paragraph in subsection 406.02 shown on page 4-39 of the Standard Specifications for Construction and replace with the following:

Provide natural coarse aggregate for Classes 6A, 26A, 6AA, and 17A in accordance with subsection 902.02. Provide aggregate with a gradation meeting Michigan Series 6AA, 17A, or 26A, the physical requirements of 6AA, and not exceeding the following nominal maximum size requirements:

- A. One-fifth the narrowest dimension between forms;
- B. One-third the depth of slabs; and
- C. Three-quarters the minimum clear spacing between individual reinforcing bars or wires.

Delete the first sentence of the last paragraph in subsection 406.02 shown on page 4-40 of the Standard Specifications for Construction and replace with the following:

Select a precast concrete culvert that meets the specific culvert shape (box, three-sided, or arch) detailed on the plans from the Approved Manufacturer list shown in the MDOT Materials Source Guide.

Add the following after the last paragraph in subsection 406.02 shown on page 4-40 the Standard Specifications for Construction:

The use of Type III cement requires 25-40 percent of the cement, by weight, to be replaced with a supplementary cementitious material (slag cement or fly ash).

The use of Class 26A coarse aggregate in the concrete mix design requires 25-40 percent of the cement, by weight, to be replaced with Grade 100 slag cement. The maximum loss by wash percent passing must be 2 percent.

Add the following to the end of the first paragraph in subsection 406.03.D.4 shown on page 4-44 of the Standard Specifications for Construction:

If Type F or G polycarboxylate superplasticizer chemical admixtures are used, the Department will allow a maximum slump of 9 inches.