

B706

Bridge Offset Floor Drain (Structural Tube)

Approved, and signed, December 21, 2011. Last date revised: February 8, 2022

Revised 02-08-2022

General:

- Updated the detail to include a new method of connecting the downspout to a steel or prestressed concrete beam.
- Added a designer note referencing the Bridge Design Manual for guidance on how far to extend the drain below the bottom flange of the beam.
- Updated how welds and arrowheads are depicted.

At Title Block:

- Changed title from "Bridge Offset Floor Drain (Structural Tube)" to "Bridge Offset Floor Drain (Structural Tube) (Concrete or Steel Beam)".

At FLOOR DRAIN PLACEMENT DIAGRAM:

- Changed the barrier shape from an F barrier to a type S barrier.
- Changed the beam shape from an M shape to an MN shape.
- Updated the connection details.

At ELEVATION:

- Completely changed the portion of the detail showing how the downspout is connected to a beam.
- Added a dimension "X" for the downspout extension below the bottom of the beam flange. Added a Designer Note to provide guidance in determining dimension "X".
- Moved where Section A-A is cut.
- Changed TS 6 x 4 x ¼ tube to HSS 6 x 4 x ¼

At SECTION A-A:

- Updated the section to match the new location of the section cut in the Elevation view.

Under NOTES:

- Changed 2 instances of "per spec." to "in accordance with spec."
- At the third general note, changed the note from "Payment for Floor Drain Type ___ Shall Include All Material Shown on This Detail." to "Payment for Floor Drain Type ___ Includes All Material Shown on This Detail."
- Removed existing circled note ① "1"± Below Bottom of Beam Except on Rural Stream Crossings where Drain Should be Even to Bottom of Beam" and changed to ① "Field Drill 13/16" Hole In Tab Plate To Provide For ¾" Bolted Connection With Washers. Allow For A Minimum Edge Distance Of 1" To Edge Of Tab Plate."
- Removed existing circled note ② "Attach to Beam with ¾" Dia. Bolt, Lockwasher and Nut as Required. See Special Provisions for Approved Anchorage Required for Concrete Beams. Anchorage to Miss Draped Strands" and changed to circled note ② "See B703 For Concrete Or Steel Beam Connection Details."

Approved, and signed, November 22, 2002.