

B705

Bridge Floor Drain (Welded Box)

Approved, and signed, November 22, 2002. 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 are depicted and updated all arrowheads.

At Title Block:

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

At TOP VIEW (Scupper):

- Added arrows to depict where new View B-B is taken.
- Changed the size of the tab plate.

At TOP VIEW (Grate):

- Changed 1¼" Min. to 1¼"
- Changed 2¾" ± Typ. to 2¾" Typ.
- Changed section cut "B-B" to "C-C".

At SECTION A-A:

- Changed tube callout from 6 x 10 x 3/8 tube to HSS 6 x 10 x 3/8.
- 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".
- Completely changed the portion of the detail showing how the downspout is connected to a beam.

At FRONT VIEW:

- Changed title from "Front View" to "View B-B".
- Removed the old connection plate and added the new tab plate.
- Added callout for the centerline of the drain.

At BRACKET DETAIL:

- Added callout for 1½" x 1½" x 1½" Solid Steel Block.

At SECTION B-B:

- Changed title from SECTION B-B to SECTION C-C.

Under NOTES:

- Changed 5 instances of "per spec." to "in accordance with spec."
- At the fourth general note, changed the 2nd sentence from "Galvanize, Except Cast Iron, Per Spec. 3394." to "Galvanize Structural Steel, Except Cast Iron, In Accordance With Spec. 3394."
- At the sixth general note, changed from "Install Grate With Arrow On Curb Side And In Direction Of Flow." to "Install Grate With Arrow On Curb Side Pointing In Direction Of Flow."
- At the seventh 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."
- Added new circled note ① from "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."

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