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BOLT HOLE DETAIL







SECTION B-B

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11:04:28 PM 0161708-60w2	<b>Tran</b> Systems	USER NAME = BAWitort	DESIGNED KAH	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE SCUPPER, DS-11 STRUCTURE NO. 016-1708	MUN SECTION COUNTY TOTAL SHEETS NO	ET
			CHECKED DL	REVISED			2090 2013-011R COOK 356 163	j <u>3</u>
		PLOT SCALE = 0:2.0000 ':" / in.	DRAWN RLS	REVISED			CONTRACT NO. 60W2	29
		PLOT DATE = 10/28/2013	CHECKED DL	REVISED		SHEET NO. 31 OF 55 SHEETS	ILLINOIS FED. AID PROJECT	

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications,

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111. The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Field Welding, Bolts, Washers and Nuts including complete installation of the scupper including field welding in place shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

See Sheet 16 of 55 for additional scupper details.

## BILL OF MATERIAL

Item	Unit	Quantity
Drainage Scupper, DS-11	Each	2