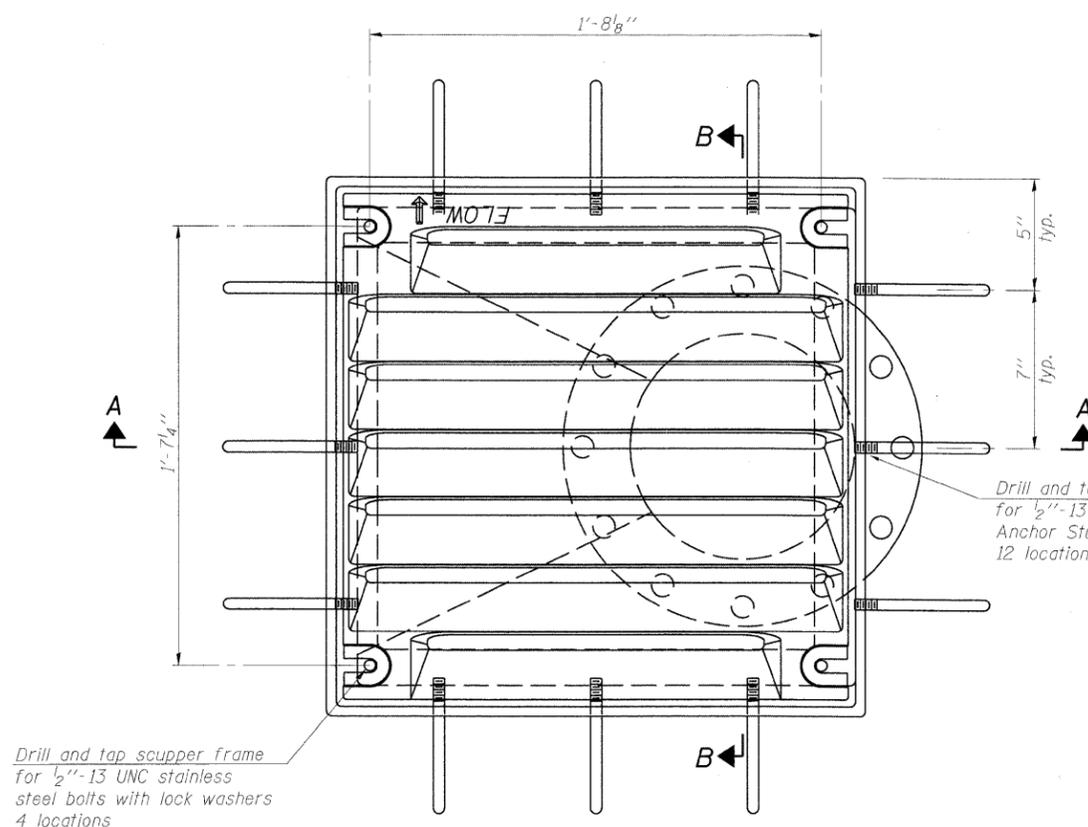


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	-	KANE	545	342
FED. RD. DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET SD- 27  
OF 34 SHEETS

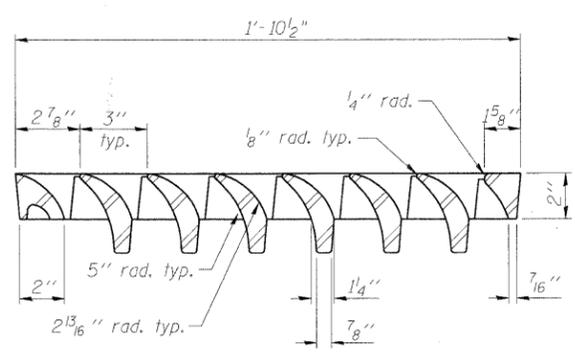
Contract # 63074



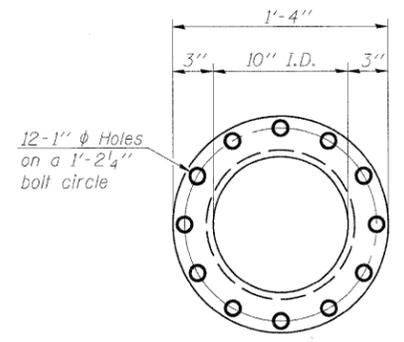
PLAN

Drill and tap scupper frame for 1/2"-13 UNC stainless steel bolts with lock washers 4 locations

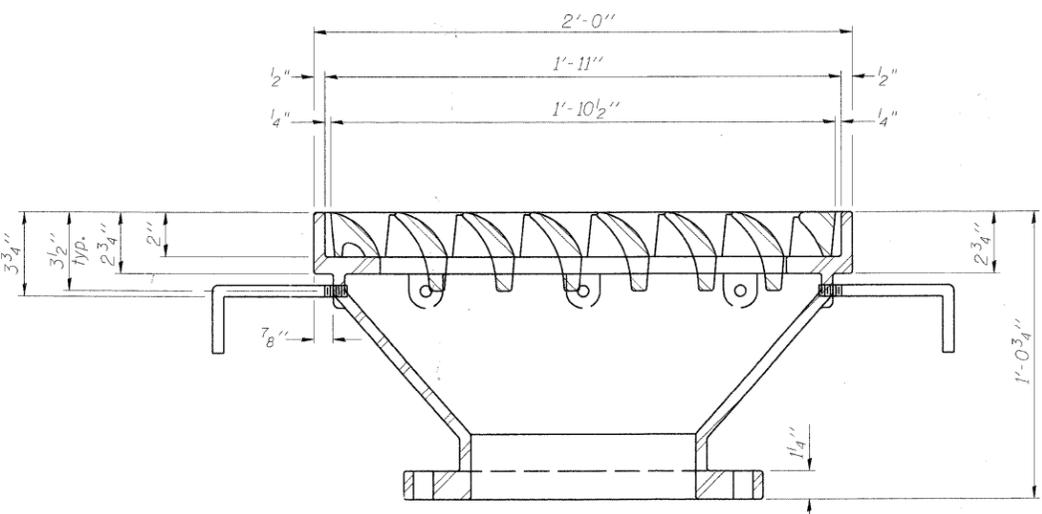
Drill and tap scupper frame for 1/2"-13 UNC threaded Anchor Studs 12 locations



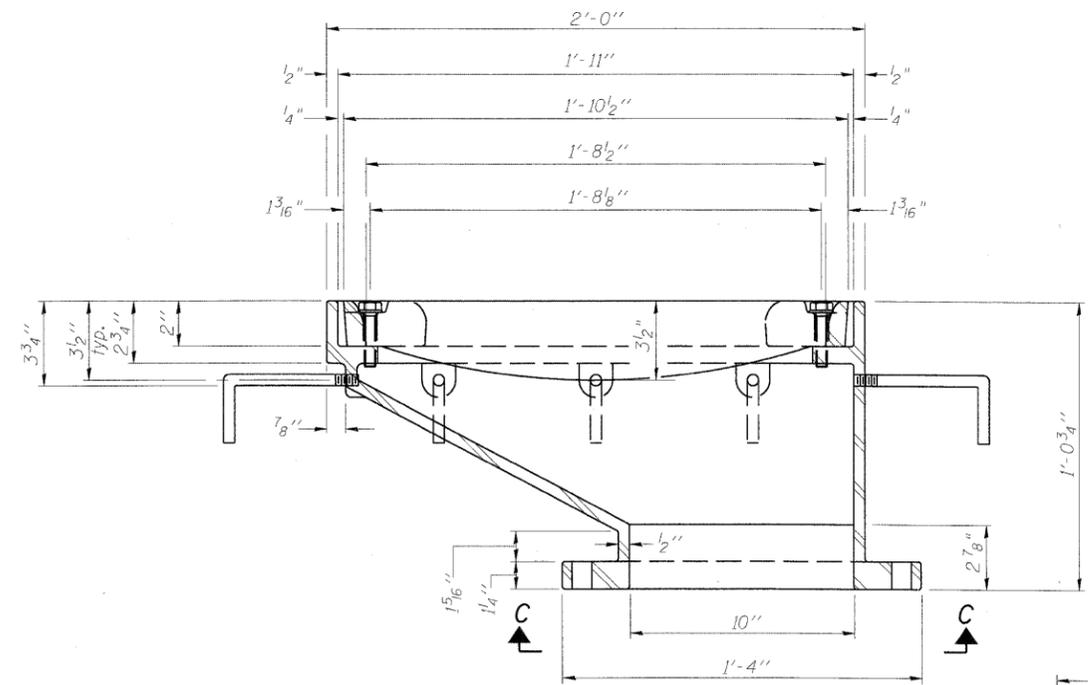
VANE GRATE DETAIL



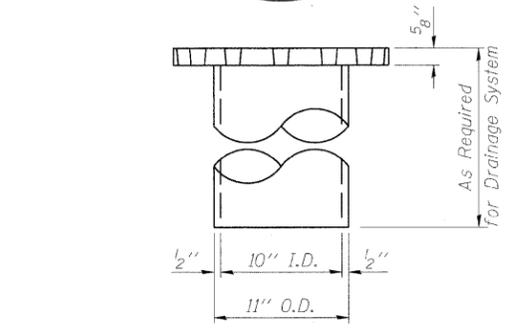
12-1" Φ Holes on a 1'-2 1/4" bolt circle



SECTION B-B

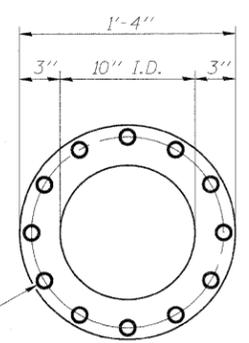


SECTION A-A

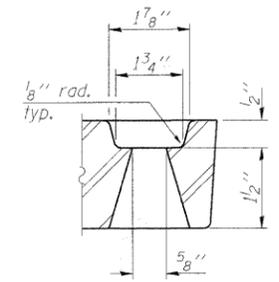


DOWNSPOUT

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.  
All castings shall conform to the requirements of AASHTO M 306.  
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.



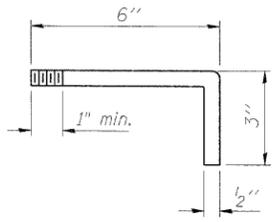
VIEW C-C



GRATE BOLT HOLE DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12M10	Each	6



ANCHOR STUD DETAIL

DESIGNED	AJK
CHECKED	AAY
DRAWN	AYR
CHECKED	DMC

DS-12M10 5-16-08

**benesch**  
alfred benesch & company  
Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450  
Job # 3944

**DRAINAGE SCUPPER DETAILS**  
**IL 25/DUNHAM ROAD OVER THE**  
**EAST BRANCH OF BREWSTER CREEK**  
**F.A.P. 360 - SEC. 06-00214-15-BR**  
**KANE COUNTY**  
**STATION 276+36.96**  
**STRUCTURE NO. 045-2032**