

DROP BOX NO. 2

RT STA. 1095 + 44

GENERAL NOTES

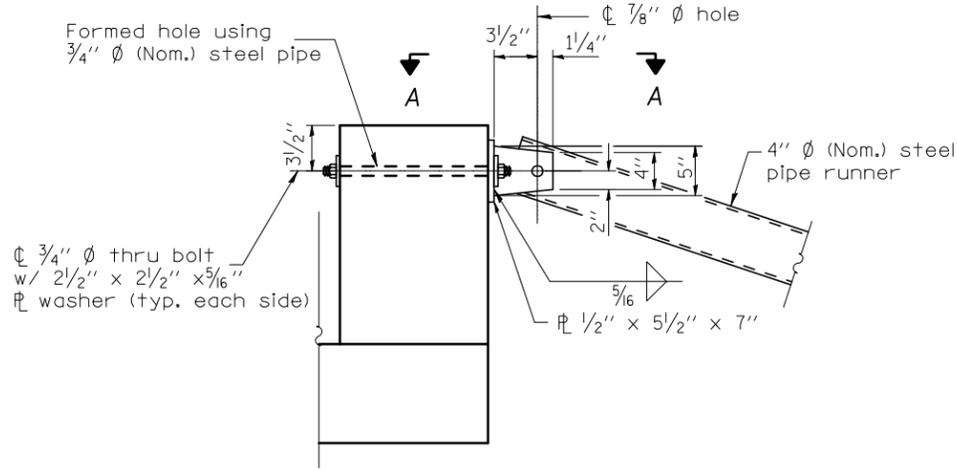
This work shall be paid for at the contract unit price per Each for Drop Box No. 2. This work shall be done according to the applicable portion of 503, 508, and 540 of the Standard Specifications. Contractor shall field verify Galvanized pipe length. Exposed edges shall be beveled $\frac{3}{4}$ ". Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted. All components of the Steel Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. Fabrication of the steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise. Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B. Bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications. The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be $\frac{1}{2}$ " unless noted otherwise. Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench. All cost associated with furnishing and installing the steel Pipe Grate system shall be included in the contract unit price of Each for Drop Box No. 2. All excavation/backfilling required for construction of the drop box as shown in these plans and in accordance with the Standard Specifications shall be included in the cost of Drop Box No. 2. Precast alternate is allowed. See Plan & Profile Sheet for more information. See Cross Section Sheet for more information.

BILL OF MATERIAL

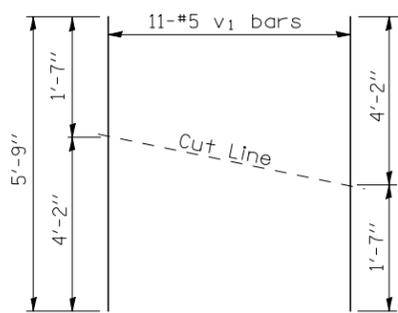
(For Information Only)

BAR	SIZE	NO.	LENGTH	SHAPE	
d	5	24	5'-0"		
d1	5	42	5'-4"		
f	6	4	7'-5"		
f1	5	4	11'-6"		
g	6	8	2'-5"		
h	5	12	17'-5"		
h1	5	6	12'-4"		
h2	5	16	17'-5"		
h3	5	42	7'-5"		
h4	5	64	2'-6"		
h5	5	4	11'-6"		
v	5	19	1'-6"		
v1	5	11	5'-9"		
v2	5	22	5'-9"		
u	5	4	15'-0"		
DESCRIPTION			UNIT	QTY	
CONCRETE STRUCTURES			CU YD	8.6	
REINFORCEMENT BARS			LB	1900	
DESCRIPTION				UNIT	QTY.
4" GALVANIZED STEEL PIPE				3@	5'-7"
				2@	10'-11"
				2@	4'-9"
3/4" GALVANIZED STEEL BOLTS				EACH	6
END ASSEMBLY				EACH	4
SIDE ASSEMBLY				EACH	6

*** Includes all hardware and steel for Assemblies

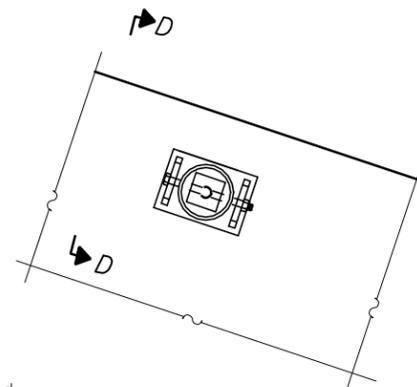


DETAIL A



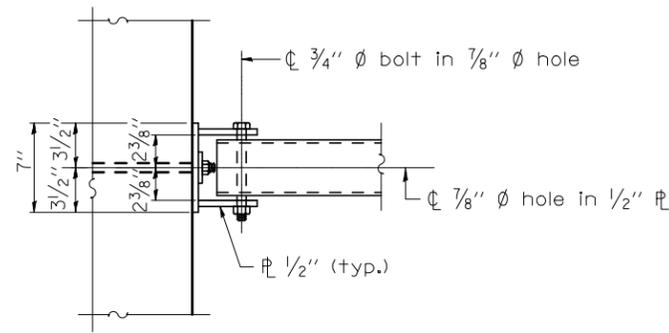
BAR CUTTING DIAGRAM

*Order v1 bars full length. Cut as shown and use remainder of bars in opposite wall.

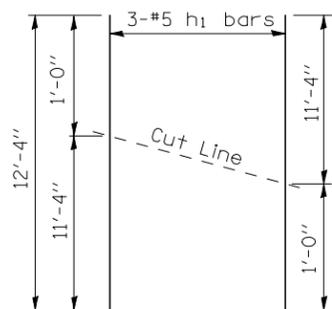


SECTION C-C

(See Detail A for dimensions and details not shown.)

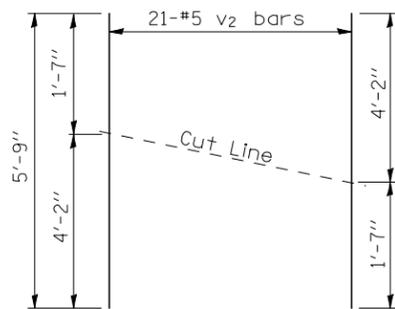


VIEW A-A



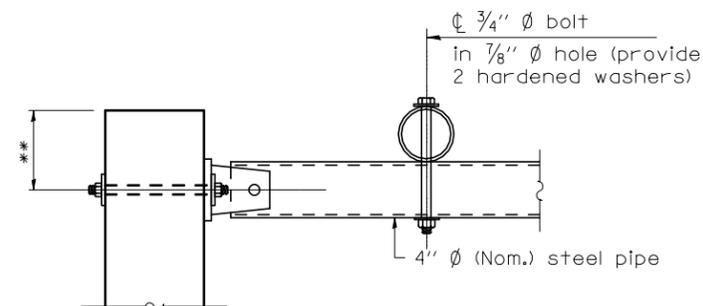
BAR CUTTING DIAGRAM

*Order h1 bars full length. Cut as shown and use remainder of bars in opposite face.



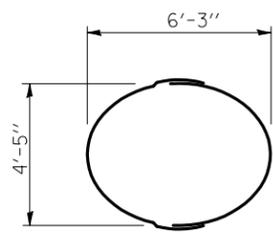
BAR CUTTING DIAGRAM

*Order v2 bars full length. Cut as shown and use remainder of bars in opposite wall.

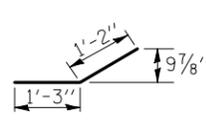


SECTION D-D

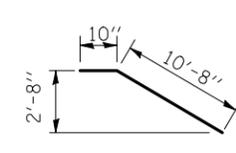
** Measured perpendicular to top of wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the drop box.



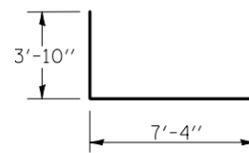
BAR h5 (PAIR)



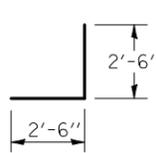
BAR g



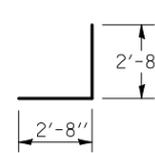
BAR f1



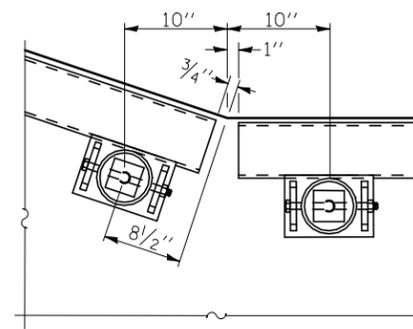
BAR u



BAR d



BAR d1



DETAIL B

FILE NAME =	USER NAME = Elgin 110	DESIGNED - MJS	REVISED -
... \CADD SHEETS\Z007930R-DTLS2.dgn		DRAWN - LMP	REVISED -
		CHECKED - RLH	REVISED -
		DATE - APRIL 30, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
DROP BOX NO. 2

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129R	WINNEBAGO	968	450
			CONTRACT NO. 64988	
ILLINOIS FED. AID PROJECT				