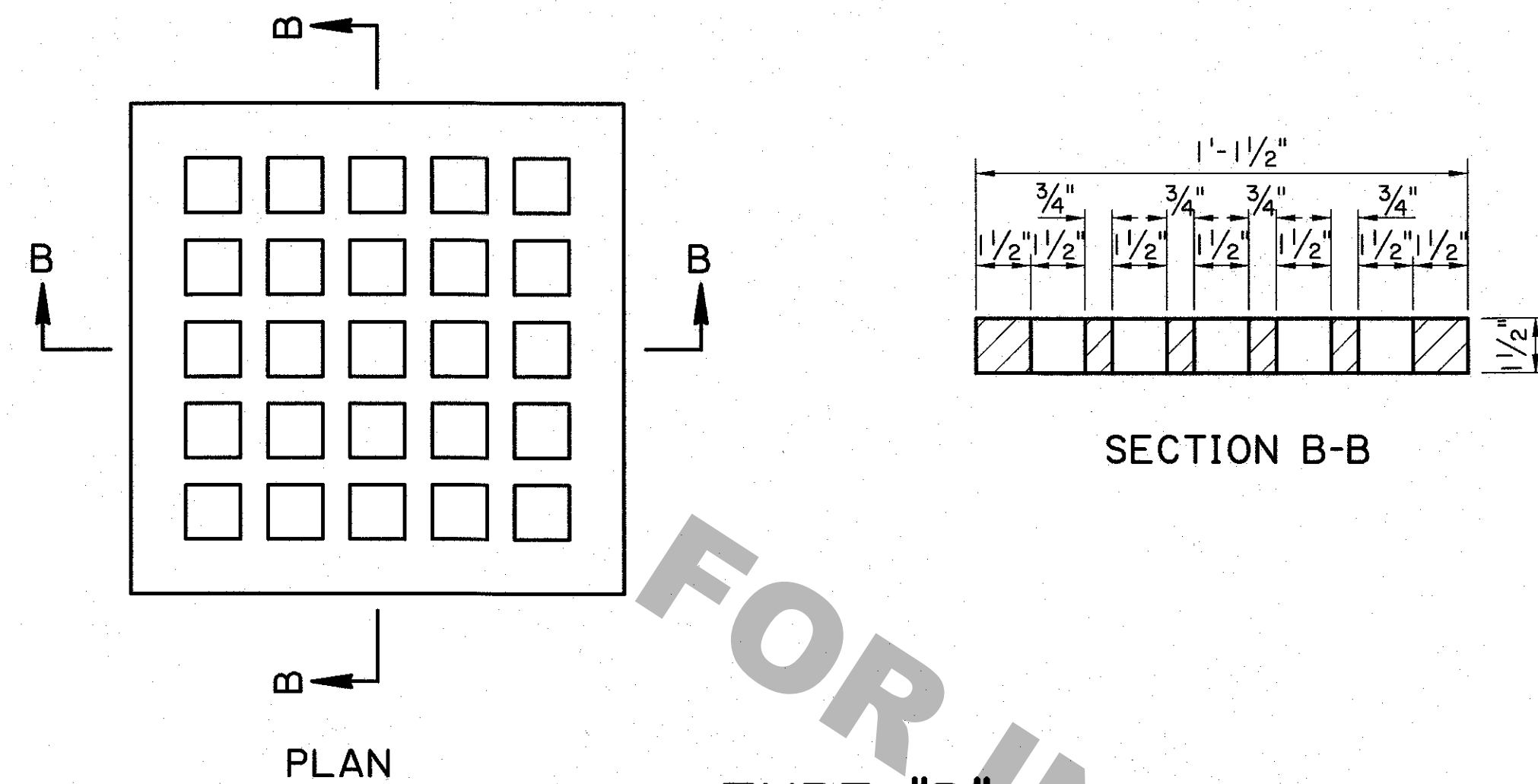
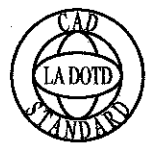
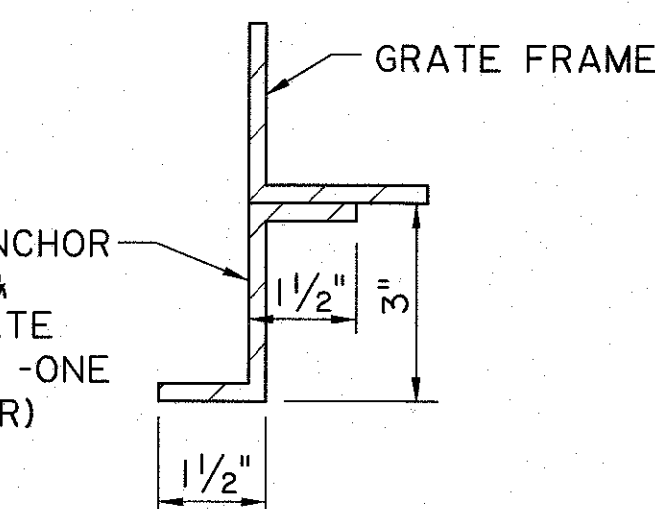
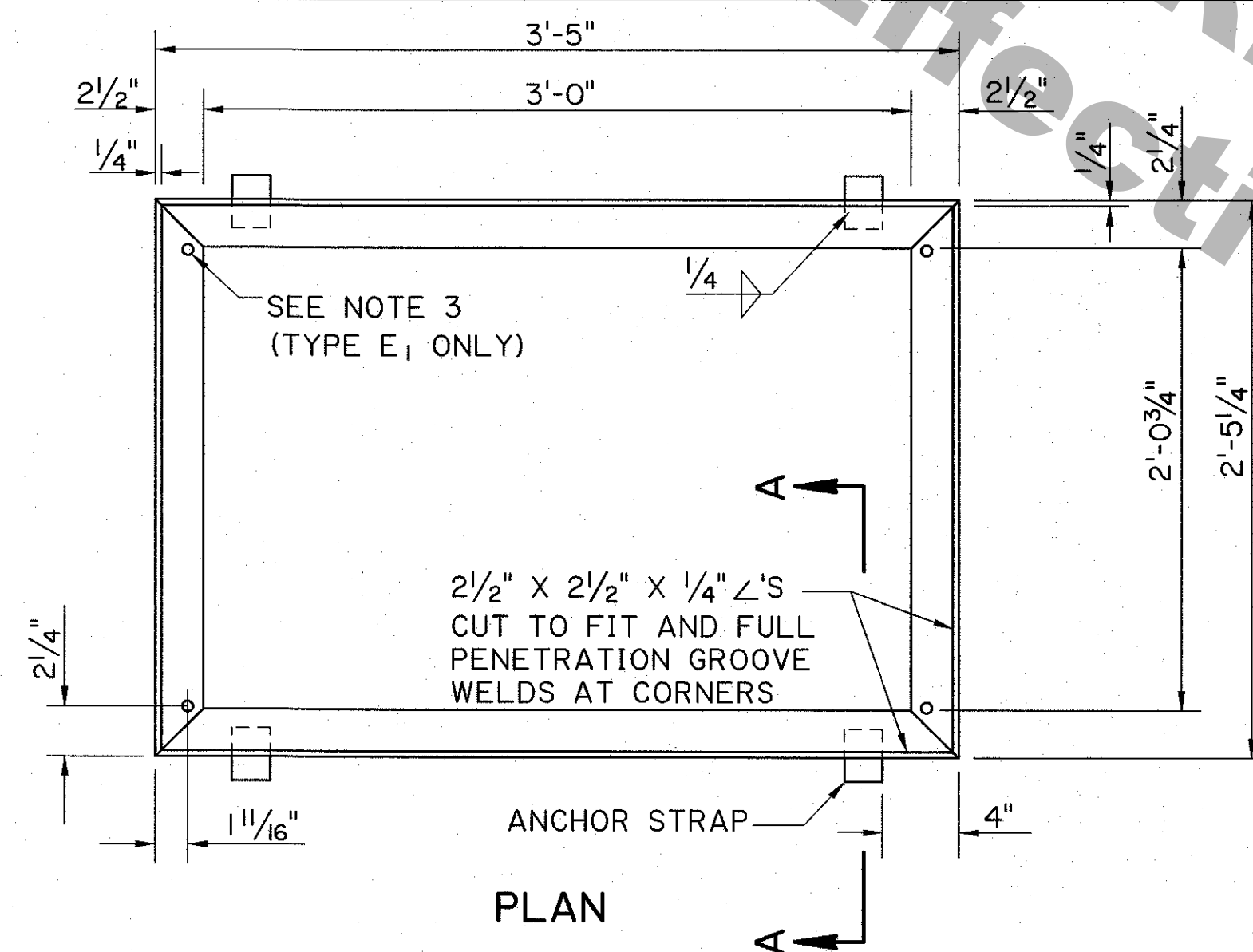




TYPE "D"

CAST IRON GRATE

WEIGHT OF CASTING = 49 LBS

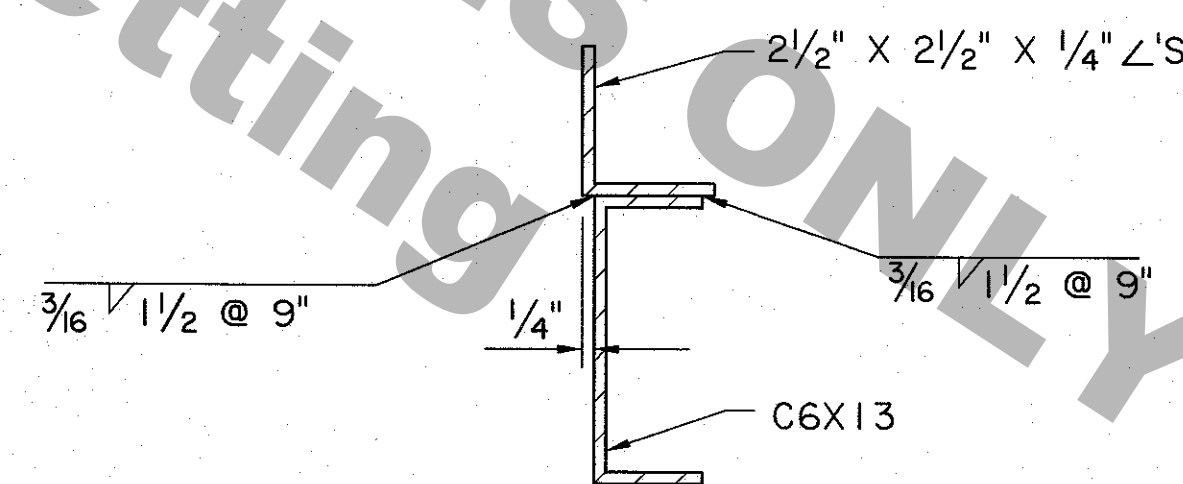
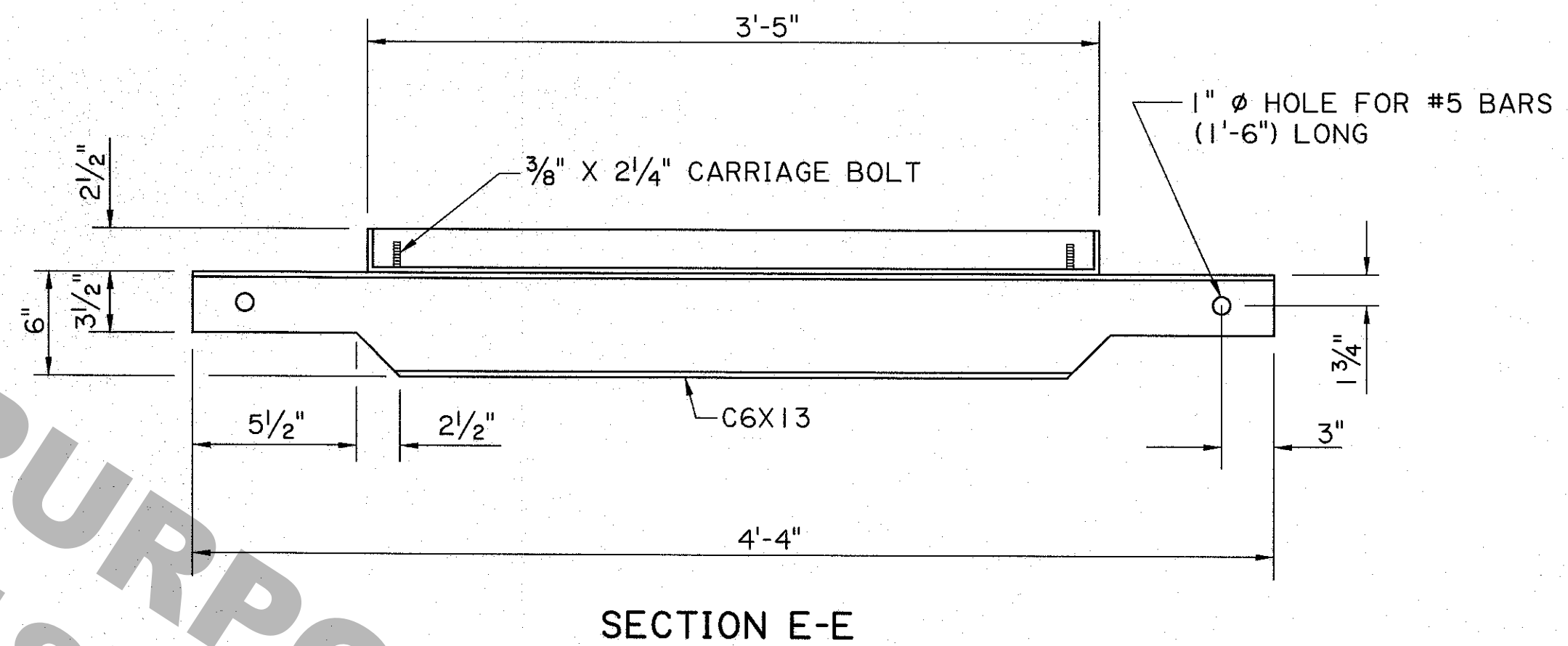
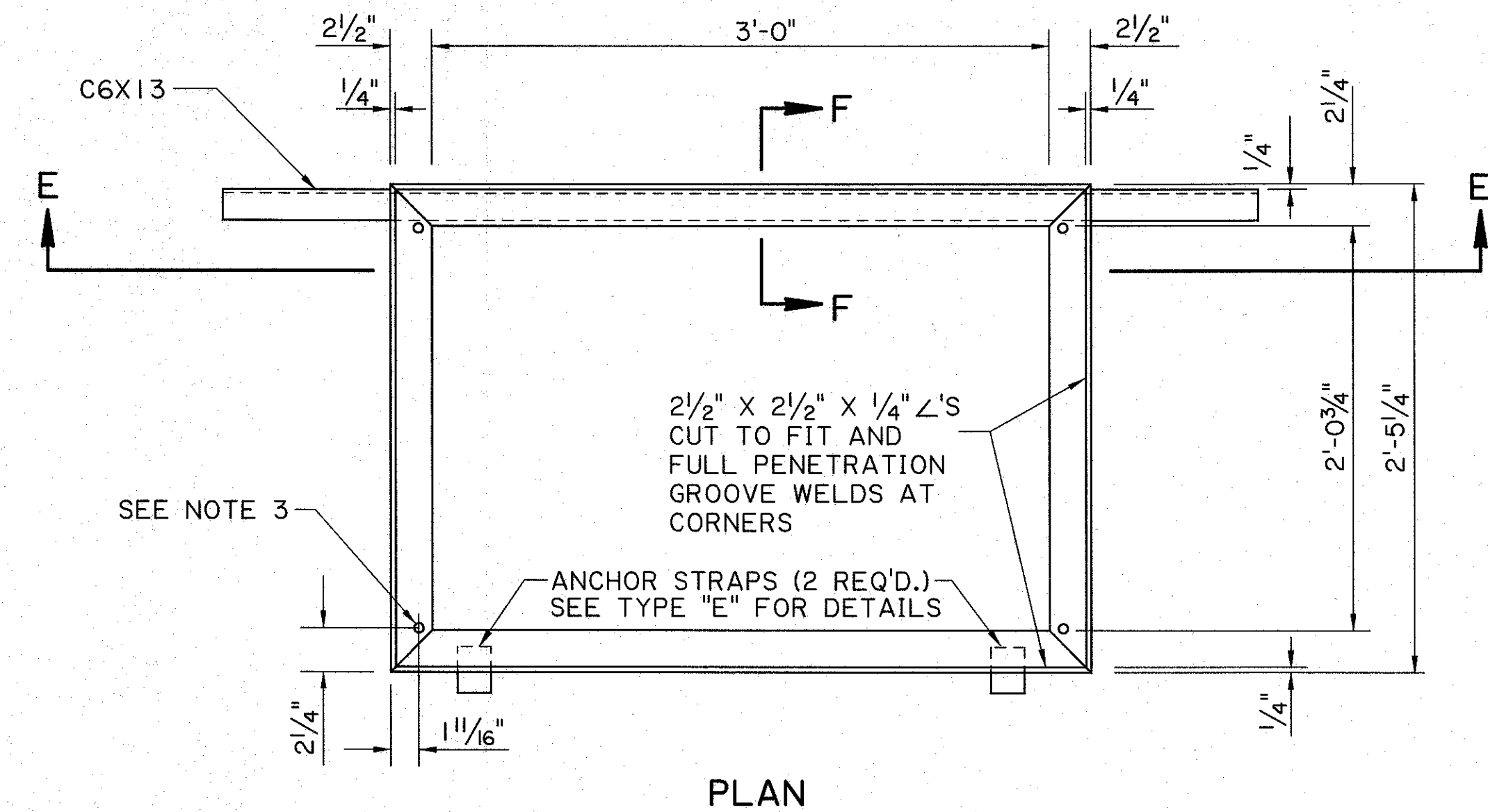


SECTION A-A

TYPE "E" AND "E1"

STEEL GRATE FRAME

- NOTES:
1. GRATE FRAME TO BE GALVANIZED AFTER FABRICATION
 2. WEIGHT OF GRATE FRAME = 52 LBS
 3. SQUARE PUNCH HOLE PRIOR TO GALVANIZING. ADD A $\frac{3}{8}$ ϕ x 2 1/4" LONG -16 UNC ROUND HEAD SQUARE NECK CARRIAGE BOLT WITH JAM NUT, HEX HEAD NUT, AND FLAT WASHER (ALL STAINLESS STEEL) AFTER FRAME IS GALVANIZED.



SECTION F-F

TYPE "F"

STEEL GRATE FRAME

- NOTES:
1. GRATE FRAME TO BE GALVANIZED AFTER FABRICATION
 2. WEIGHT OF GRATE FRAME = 52 LBS $\pm$ 5%
 3. SQUARE PUNCH HOLE PRIOR TO GALVANIZING. ADD A $\frac{3}{8}$ ϕ x 2 1/4" LONG -16 UNC ROUND HEAD SQUARE NECK CARRIAGE BOLT WITH JAM NUT, HEX HEAD NUT, AND FLAT WASHER (ALL STAINLESS STEEL) AFTER FRAME IS GALVANIZED.



SHEET NUMBER	1
DATE	5/25/18
BY	Chief Engineer
REVISION DESCRIPTION	
DATE	
APPROVED BY	
CHIEF ENGINEER	
DESIGNED	AMA
CHECKED	AMA
DETAILED	TL
CHECKED	AMA
SERIES NUMBER	9/01/17
STATE PROJECT	2 OF 6
DETAILS OF GRATES, GRATE FRAMES AND COVERS FOR CATCH BASINS AND MANHOLES	
STANDARD PLAN	MC-01
HYDRAULICS SECT.	