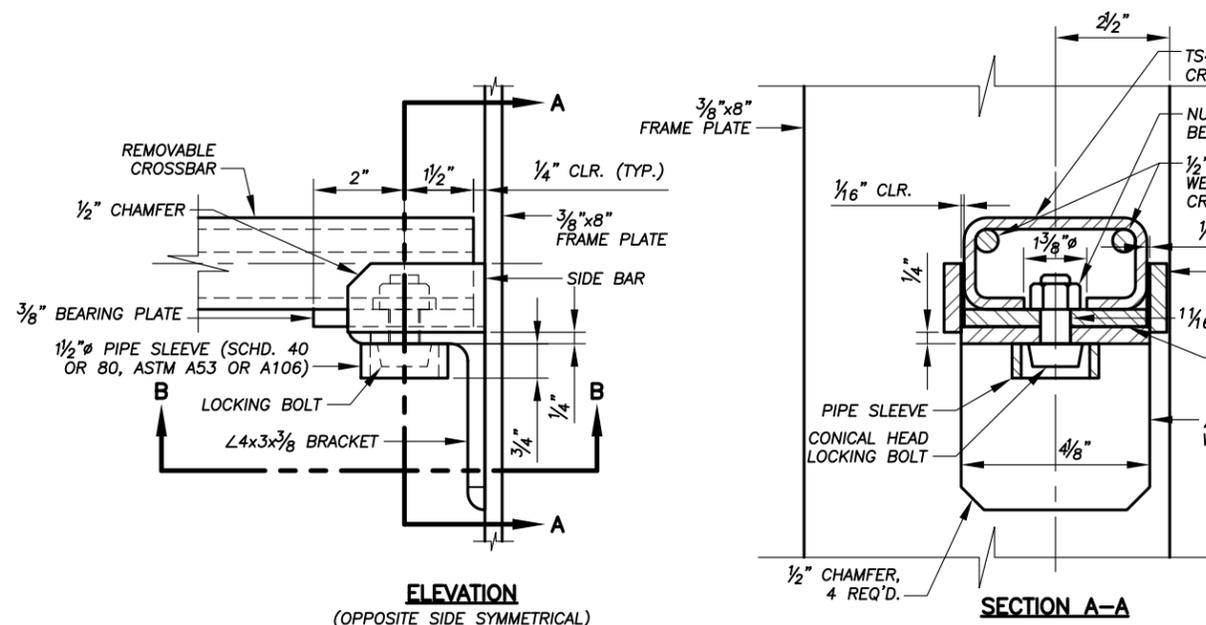
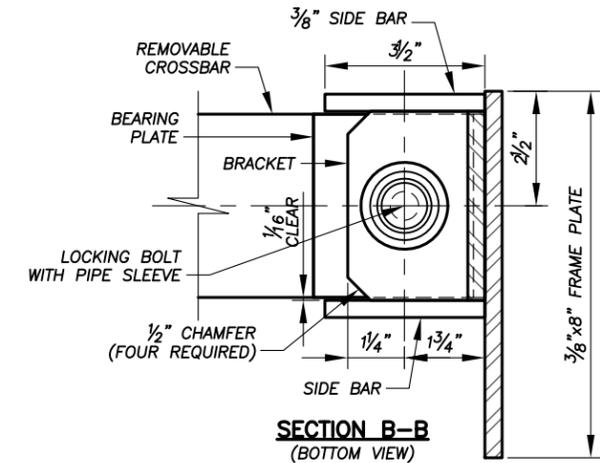


REMOVABLE_BAR_LOCK.DWG PLOT SCALE 1 = 4

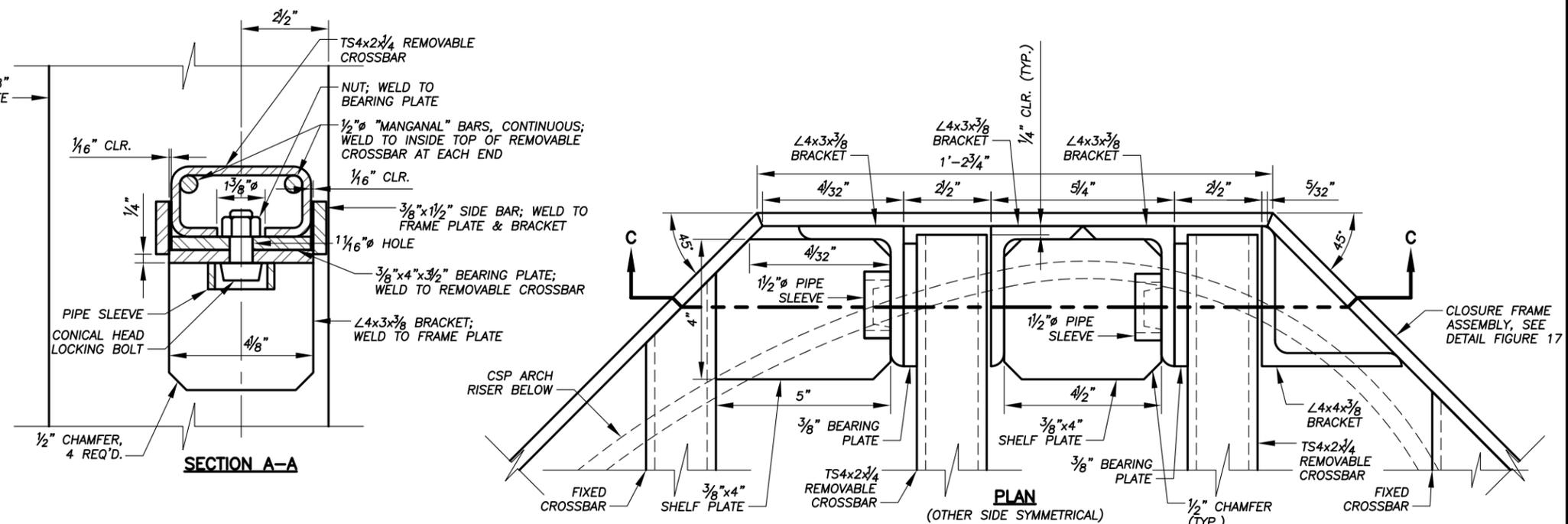


ELEVATION
(OPPOSITE SIDE SYMMETRICAL)



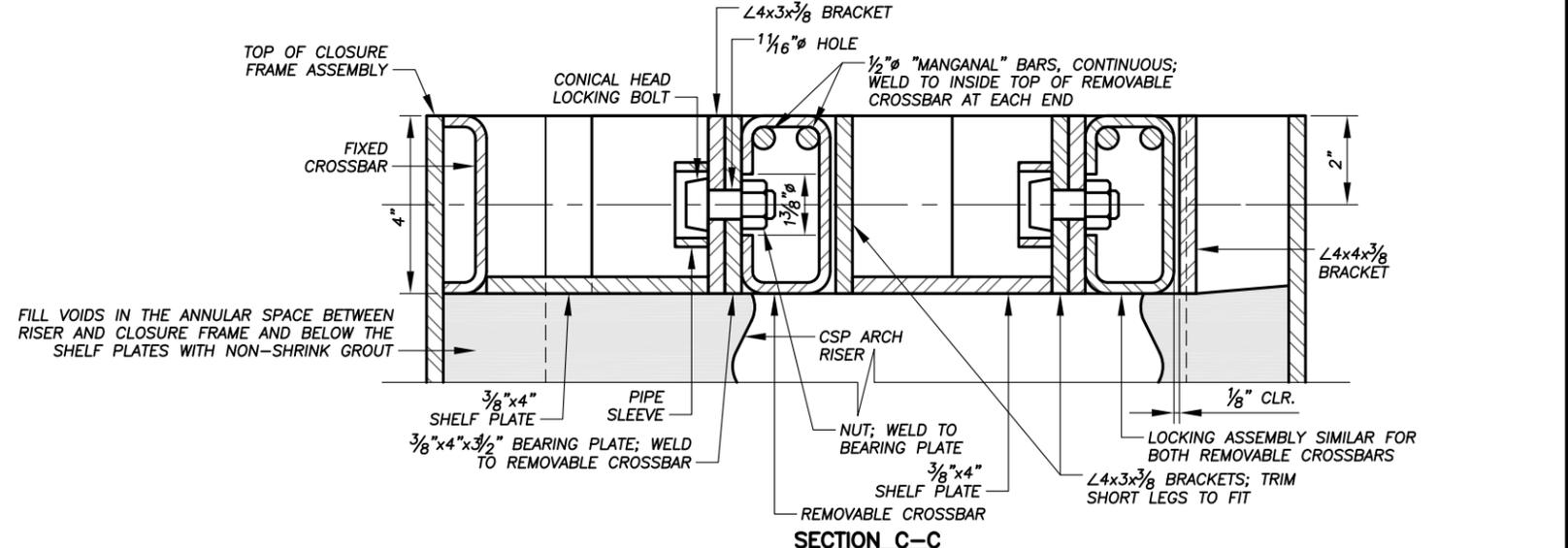
SECTION B-B
(BOTTOM VIEW)

VERTICAL GATE REMOVABLE BAR LOCK DETAILS
SCALE: 3" = 1'-0"

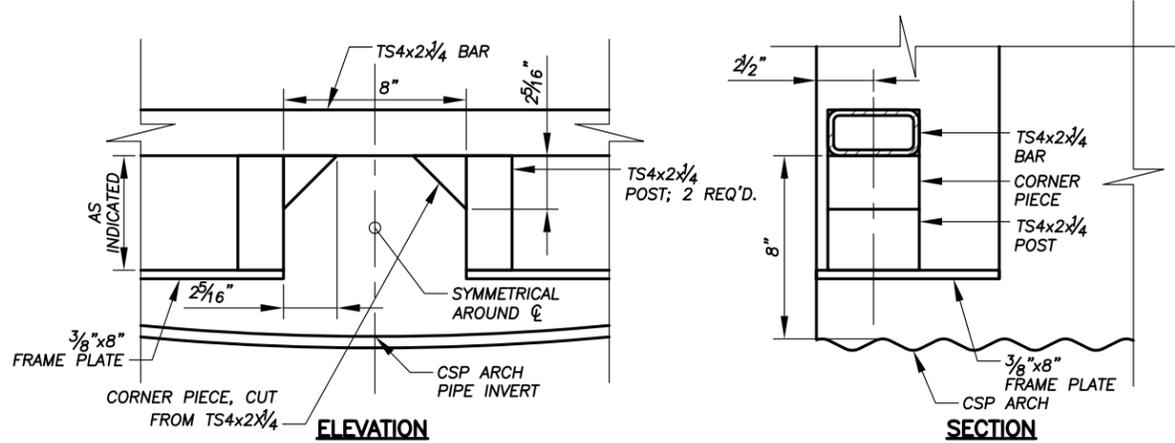


PLAN
(OTHER SIDE SYMMETRICAL)

FILL VOIDS IN THE ANNULAR SPACE BETWEEN RISER AND CLOSURE FRAME AND BELOW THE SHELF PLATES WITH NON-SHRINK GROUT

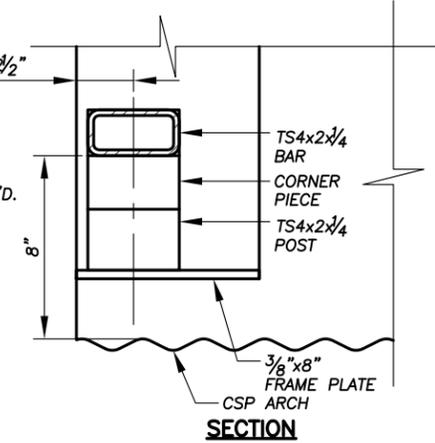


SECTION C-C
HORIZONTAL GATE REMOVABLE BAR LOCK DETAILS (F.049-116S)
SCALE: 3" = 1'-0"



ELEVATION

SMALL MAMMAL ENTRY DETAILS
SCALE: 1 1/2" = 1'-0"



SECTION

GENERAL NOTES:

1. STEEL PLATES AND SHAPES SHALL BE WEATHERING STEEL. WELD ALL JOINTS, EXCEPT AS OTHERWISE INDICATED. CONSTRUCT THE LOCK AND SMALL MAMMAL ENTRY TO ELIMINATE SURFACES ON WHICH MOISTURE OR DEBRIS CAN BE TRAPPED. JOINTS SHALL BE TIGHT SO THAT MOISTURE CANNOT ENTER BETWEEN THE PLIES OF MATERIAL. ROUND OR CHAMFER ALL EXPOSED SHARP CORNERS AND EDGES.
2. "MANGANAL" BARS SHALL BE HIGH MANGANESE STEEL WITH 12% TO 14% MANGANESE. EACH BAR SHALL EXTEND THE FULL LENGTH ALONG THE TOP OF EACH REMOVABLE CROSSBAR.
3. ALONG THE BOTTOM OF EACH REMOVABLE CROSSBAR, DRILL 1/2" DIAMETER HOLES AT 2'-0" O.C.
4. THE CONTRACTOR SHALL PROVIDE THE NUTS (3/8"-11 UNC CLASS 2A THREAD). THE PROJECT MANAGER WILL SUPPLY THE LOCKING BOLTS.
5. GREASE THE THREADS OF LOCKING BOLTS AND INSTALL FIRMLY WITH 50 TO 75 POUNDS OF TORQUE.

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|---|----------------------------------|--|
| ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION | | |
| ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT | | |
| SCALE: AS SHOWN | DRAWN BY: JAK | |
| DATE: APR. 15, 2008 | REVISED: | |
| REMOVABLE CROSSBAR LOCK & SMALL MAMMAL ENTRY DETAILS | | |
| LAKE VALLEY MINE SAFEGUARD PROJECT - PHASE IV | DRAWING NUMBER: FIGURE 36 | |