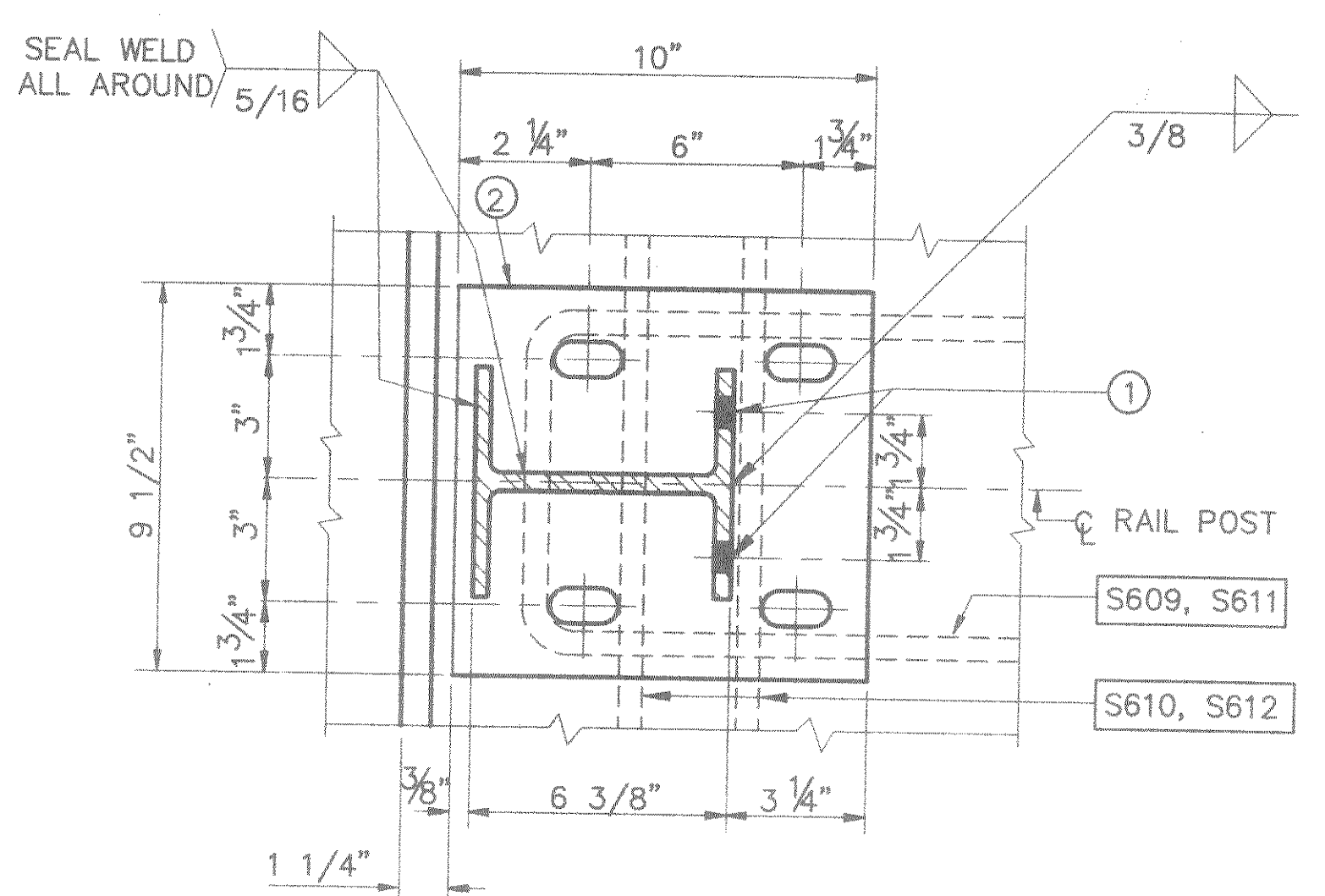
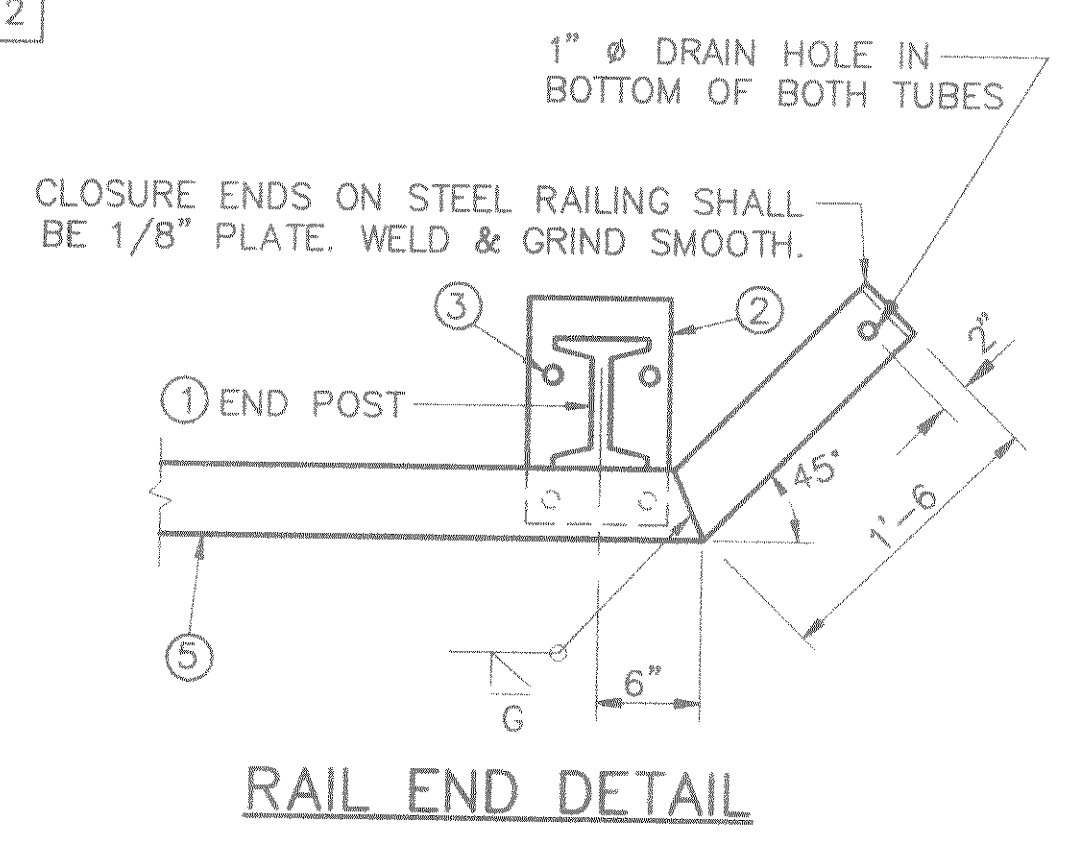


SECTION C THRU RAILING



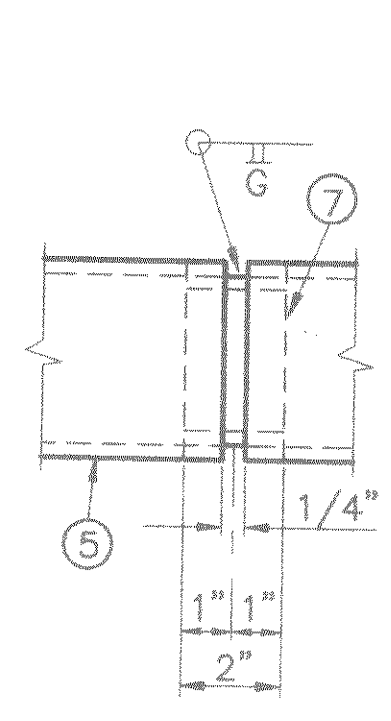
SECTION A



RAIL END DETAIL

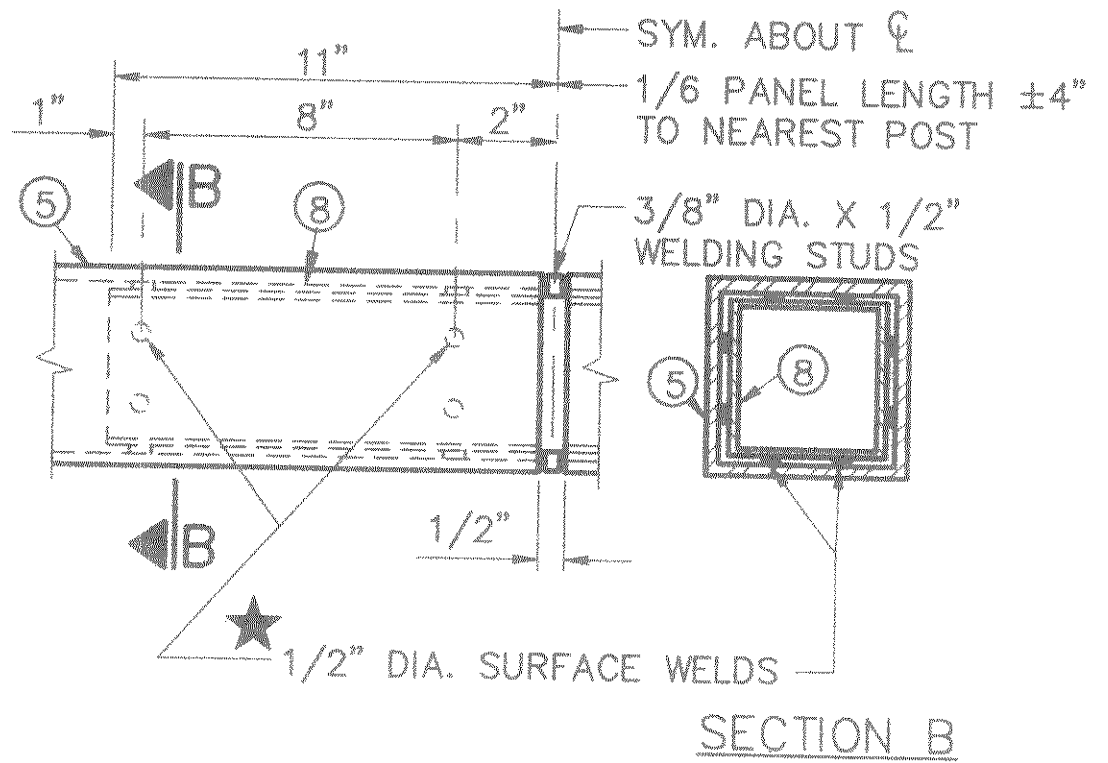
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

★ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



SECTION B

LEGEND

- ① W 6 x 25 WITH 1 1/4" DIA. HOLES ON EACH SIDE OF POST FLANGE FOR STUD (6). CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POST NORMAL TO GRADE LINE.
- ② PLATE 1" x 9 1/2" x 10" WITH 1 1/16" x 1 1/2" SLOTTED HOLES FOR ANCHOR BOLTS (3). WELD TO (1) AS SHOWN.
- ③ A325 - 7/8" DIA. HEX BOLT (GALVANIZED) WITH A325 NUT AND WASHER. 14" LONG AT END POSTS, 8" LONG AT ALL OTHER POST LOCATIONS. 4 REQUIRED PER POST. THREAD 3" AND PLACE NORMAL TO PLATE (2). CHAMFER TOP OF BOLTS BEFORE THREADING.
- ④ 1/4" x 8" x 8" FLAT BAR, WITH 15/16" DIA. HOLES FOR ANCHOR BOLTS (3).
- ⑤ TS 4 x 4 x .25 STRUCTURAL TUBING, CONFORMING TO A.S.T.M. DESIGNATION A501 OR A500 GRADE B ATTACH TO (1) WITH STUDS (6).
- ⑥ 5/8" DIA. x 1 1/2" LG. SHOP WELDED STUDS WITH HEX. NUT AND 2" WASHERS. 4 PER POST REQ'D. (2 REQ'D AT EACH LOCATION.)
- ⑦ SQUARE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE 'SLIDING FIT' WITH A MINIMUM OUT TO OUT DIMENSION OF 3 13/32".
- ⑧ TS 3 x 3 x .25 x 1'-10" LONG. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF (5). PROVIDE 3/8" DIA. x 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BID ITEM SHALL BE " TUBULAR RAILING TYPE 'F' " WHICH INCLUDES ALL ITEMS SHOWN.

RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POSTS BASE PLATES, (2) SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL, EXCEPT ANCHORAGE DETAIL (NO. (3) & (4)) SHALL BE GALVANIZED AFTER FABRICATION.

FILL BOLT SLOT OPENINGS IN POST BASE PLATE SHIMS AND PLATE (2) WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. SEAL BOTTOM EDGES OF PLATE (2) TO DECK.

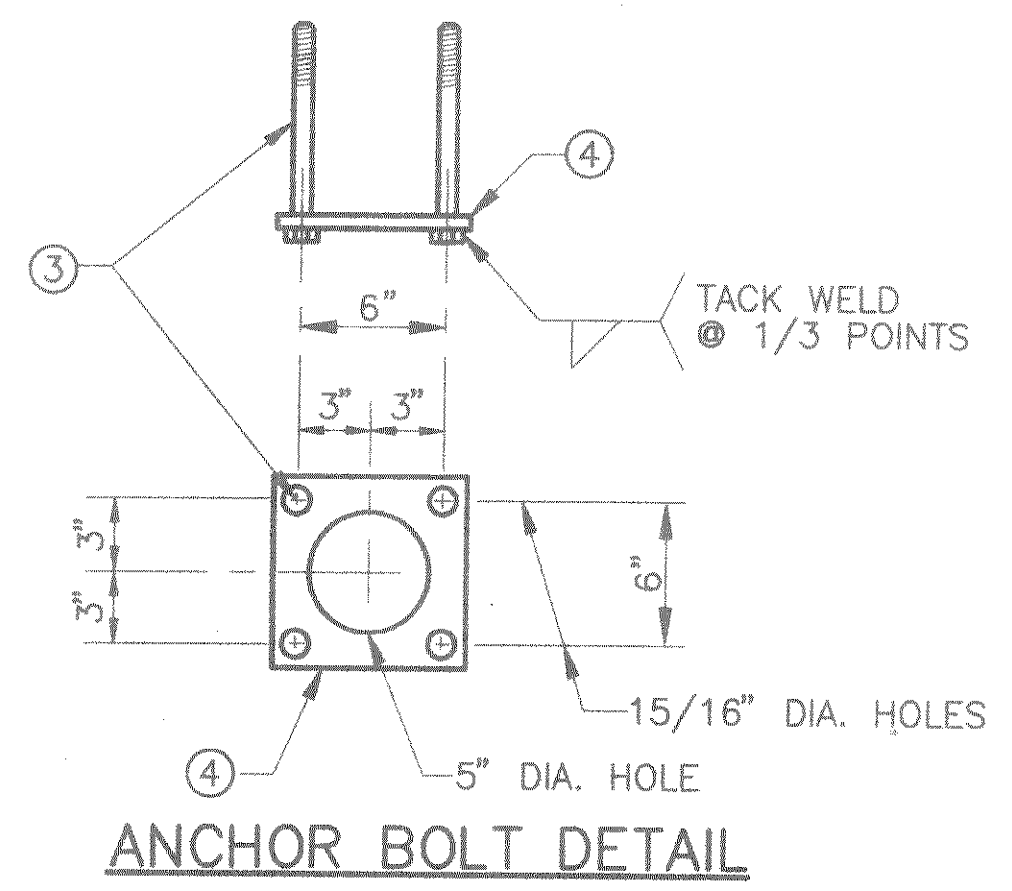
ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.

STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

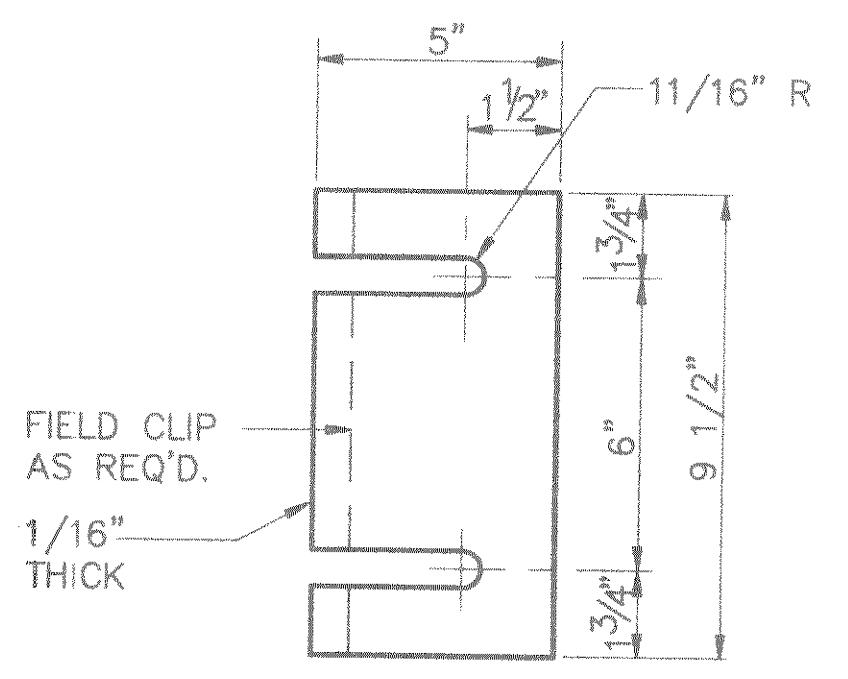
PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS AND COLD FORMED TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG CENTERLINE OF POST BASE.

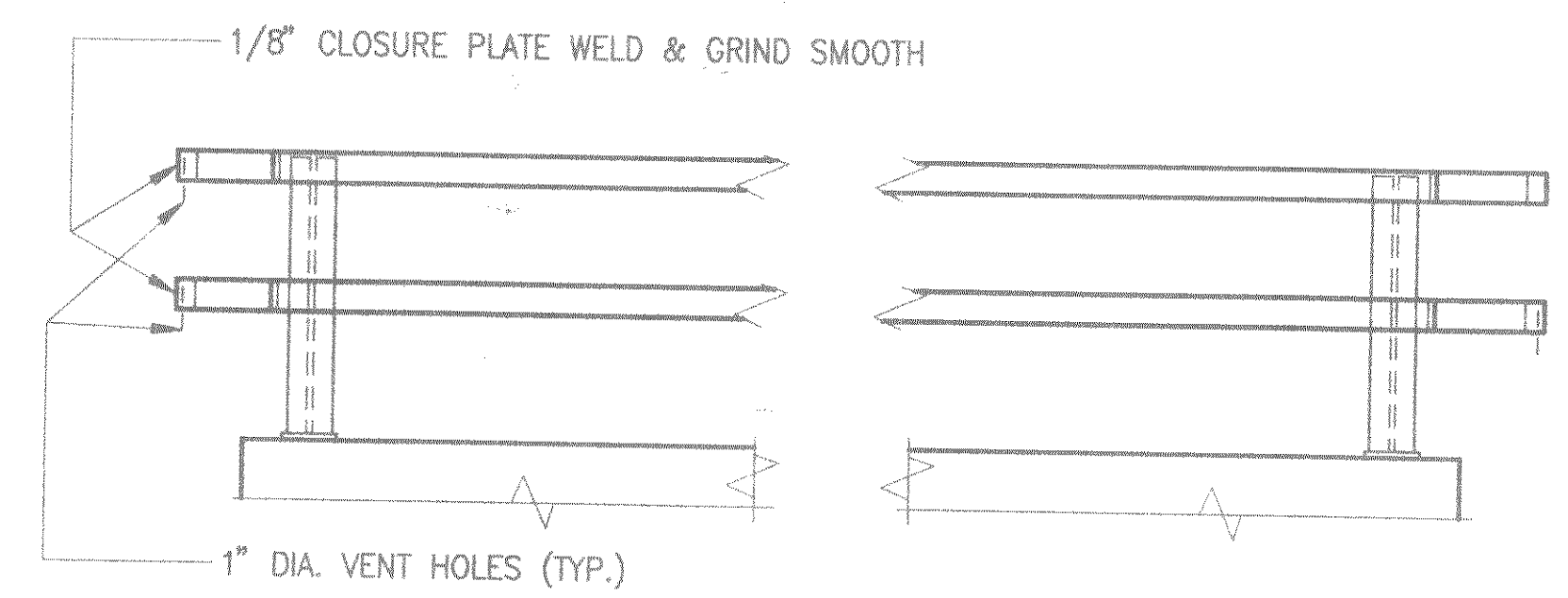
WELD WITH E70 ELECTRODES.



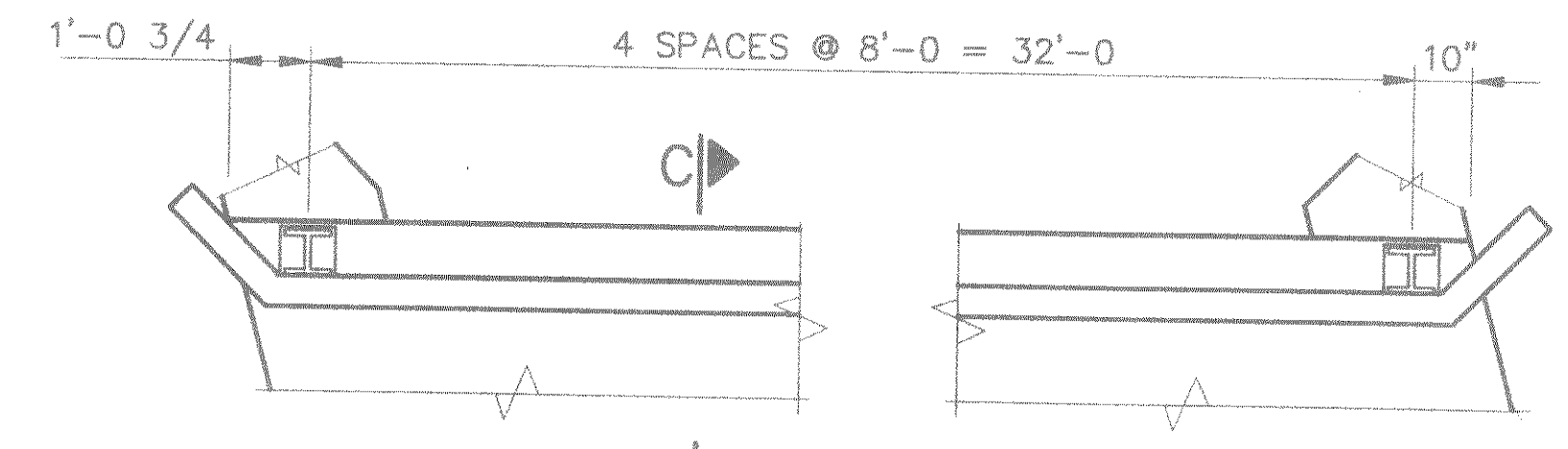
ANCHOR BOLT DETAIL



POST SHIM DETAIL (4 PER POST)



PART ELEVATION OF RAILING



PART PLAN OF RAILING

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE		B-35-130	
Const. Spec.	WI "89"	Drawn By	RLR
Plans Checked	MJS		
TUBULAR STEEL RAILING TYPE 'F'			SHEET 7 OF 7