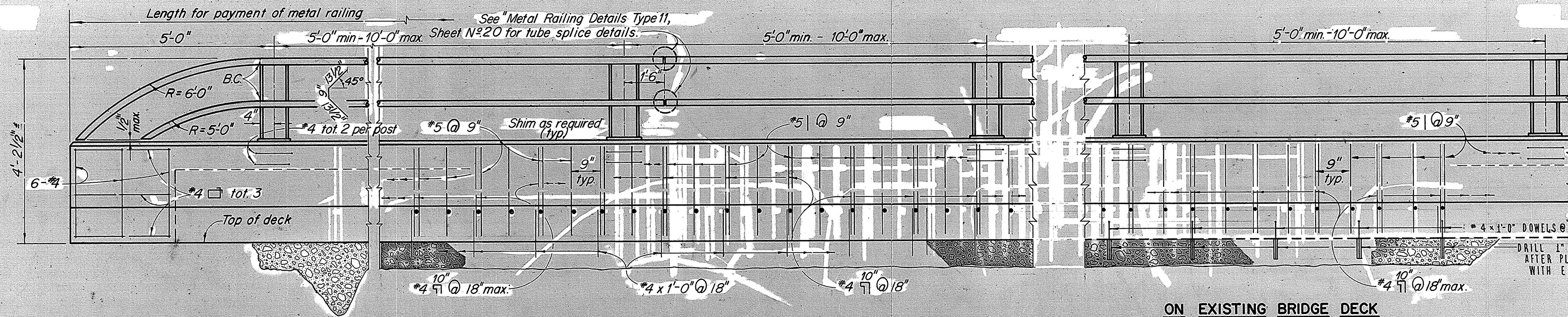


PLAN



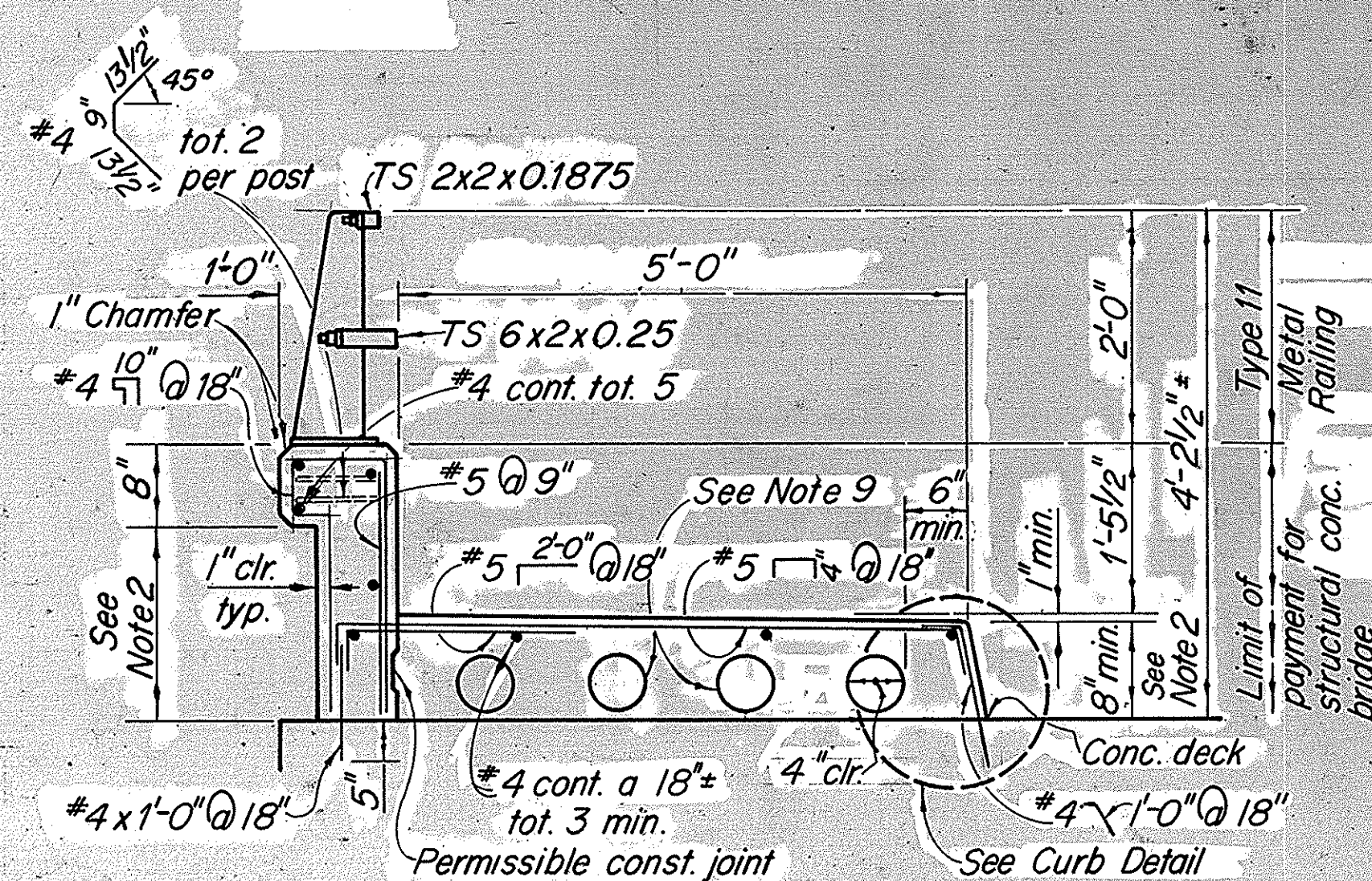
ELEVATION

ON EXISTING BRIDGE DECK

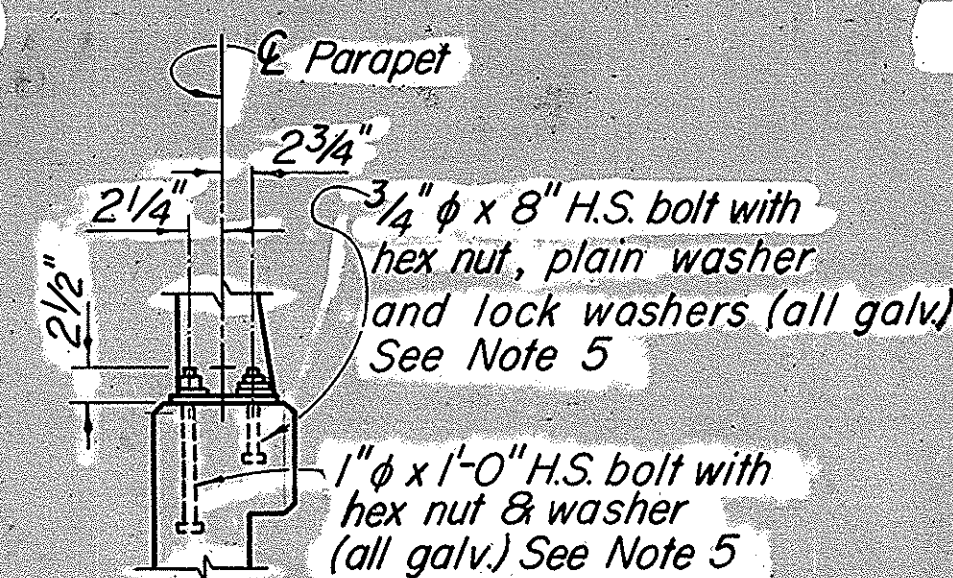
ON NEW BRIDGE DECK

NOTES:

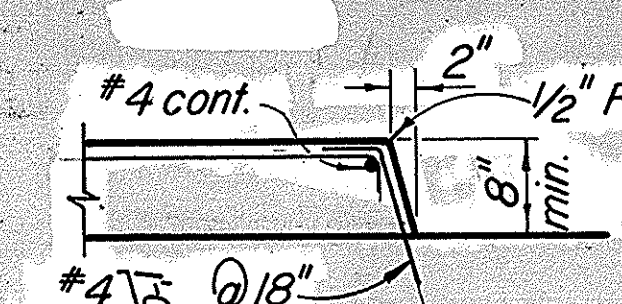
1. TUBING SHALL BE NORMAL TO RAILING.
2. DIMENSIONS WILL VARY WITH CROSS SLOPE. SEE BRIDGE PLANS.
3. WALLS TO BE BACKFILLED BEFORE RAILING IS PLACED.
4. CLEARANCE TO REINFORCING STEEL IN CURB AND RAILING TO BE 1".
5. HIGH STRENGTH RODS THREADED BOTH ENDS WITH 2 HEX NUTS AND WASHERS (ALL GALV.) MAY BE SUBSTITUTED FOR HIGH STRENGTH ANCHOR BOLTS.
6. TORQUE BOLTS TO POST NUTS TO 175 LBS. EXCEPTION 2x2 TUBE IS WRENCH TIGHT.
7. GALVANIZE RAIL ASSEMBLY AFTER FABRICATION.
8. FOR DETAILS NOT SHOWN SEE "METAL RAILING DETAILS TYPE 11", SHEET NO. 20.
9. PROVIDE 4 - 0'-4" ROUND OPENINGS FOR FUTURE UTILITIES. OPENINGS ARE TO BE SEALED AT ENDS, DUCT FORMS ARE TO BE TIED DOWN. NOTE: ON NEW BRIDGE DECK ONLY.
10. PROVIDE 2 - 0'-2" ROUND OPENINGS FOR PULL BOX WIRING. SEE DETAILS SHEET NO. 21. DUCT FORMS ARE TO BE TIED DOWN. NOTE: ON EXISTING BRIDGE ONLY.



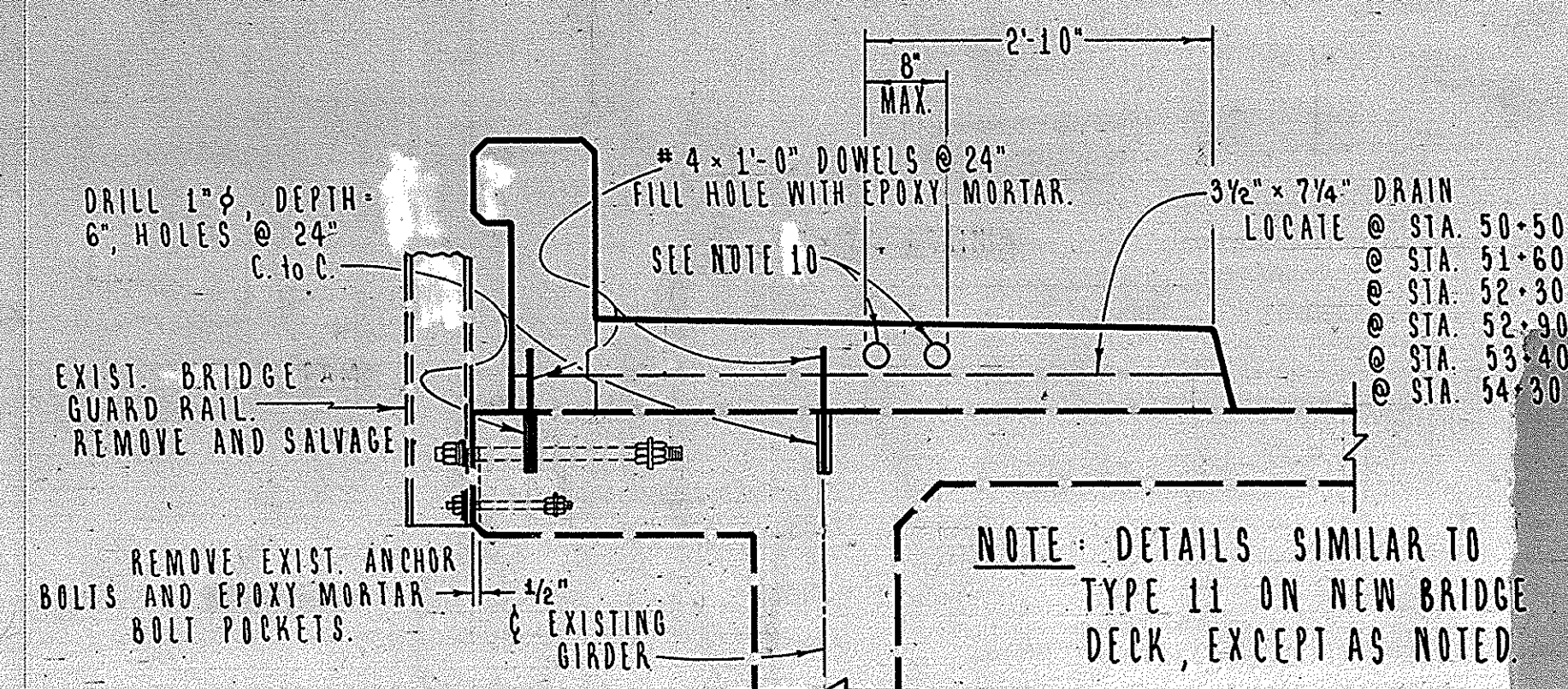
TYPE 11
ON
NEW BRIDGE DECK



RAILPOST ANCHOR
BOLT DETAIL



CURB DETAIL



TYPE 11
ON
EXISTING BRIDGE DECK

1 1/2 0 2
3 inches on original drawing

ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY
LAKEVIEW AVE. BRIDGE (SA-6)
WIDENING OVER
SANTA ANA RIVER (EOI)

TYPE II RAILING

MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF	DATE	SHEET
DESIGNED	GENE W. FOSTER	SCALE	DATE	DWG. NO.	19
DRAWN	PJS	CHECKED	AS SHOWN	1978	OF 22

DR. #10 (12730)