



SECTION THRU RAIL

VIEW FROM ROADWAY

• $\frac{3}{4}$ " ϕ H.S. THREADED BOLTS ASTM A449.

NOTES

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200 & GR-202.

ALL WORK AND MATERIALS REQ'D. TO INSTALL GUARD RAIL ON BOX CULVERTS SHALL BE PAID FOR UNDER ITEM 704-01-01000 GUARD RAIL (SINGLE THRIE BEAM) (3'-1 1/2" POST SPACING).

GUARD RAIL SPLICES SHALL BE MADE AT POST LOCATIONS ONLY.

DRILL 1" ϕ HOLES, 6" DEEP AT THE TOP AND BOTTOM (MIN.) FOR $\frac{3}{4}$ " ϕ GALVANIZED BOLT USE $\frac{3}{4}$ " GALVANIZED NUT WITH GALVANIZED CUT WASHER.

ALL HOLES DRILLED INTO AN EXISTING CONCRETE STRUCTURE SHALL BE CLEANED WITH COMPRESSED AIR AND MADE FREE OF ANY OIL OR RESIDUE.

• HOLES SHALL BE FILLED WITH EPOXY INJECTION SYSTEM AS LISTED ON QPL 40. PLACE BOLT IN HOLES IMMEDIATELY AND WAIT FOR MANUFACTURERS CURE TIME.

ALL STRUCTURAL STEEL SHALL BE ASTM A-36 AND GALVANIZED. ALL $\frac{5}{8}$ " ϕ BOLTS SHALL BE ASTM A307.



Paul B. Fossier, Jr.
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BRIDGE AND STRUCTURAL DESIGN		SIDE MOUNT GUARD RAIL (FOR BOX CULVERT)		DESIGNED		PARISH		SHEET NUMBER
				CHECKED		FEDERAL PROJECT		
				DATE	12-2008	STATE PROJECT		
				NO.	DATE	REVISION DESCRIPTION	BY	