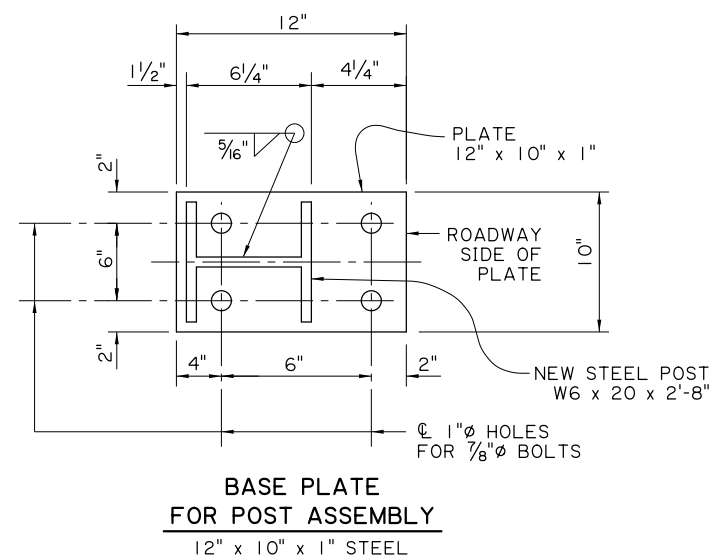
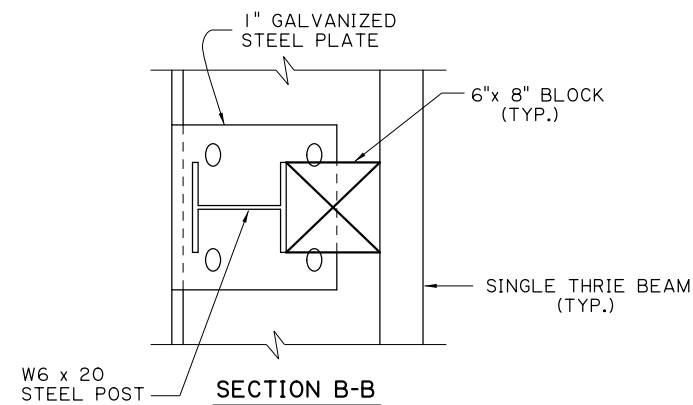
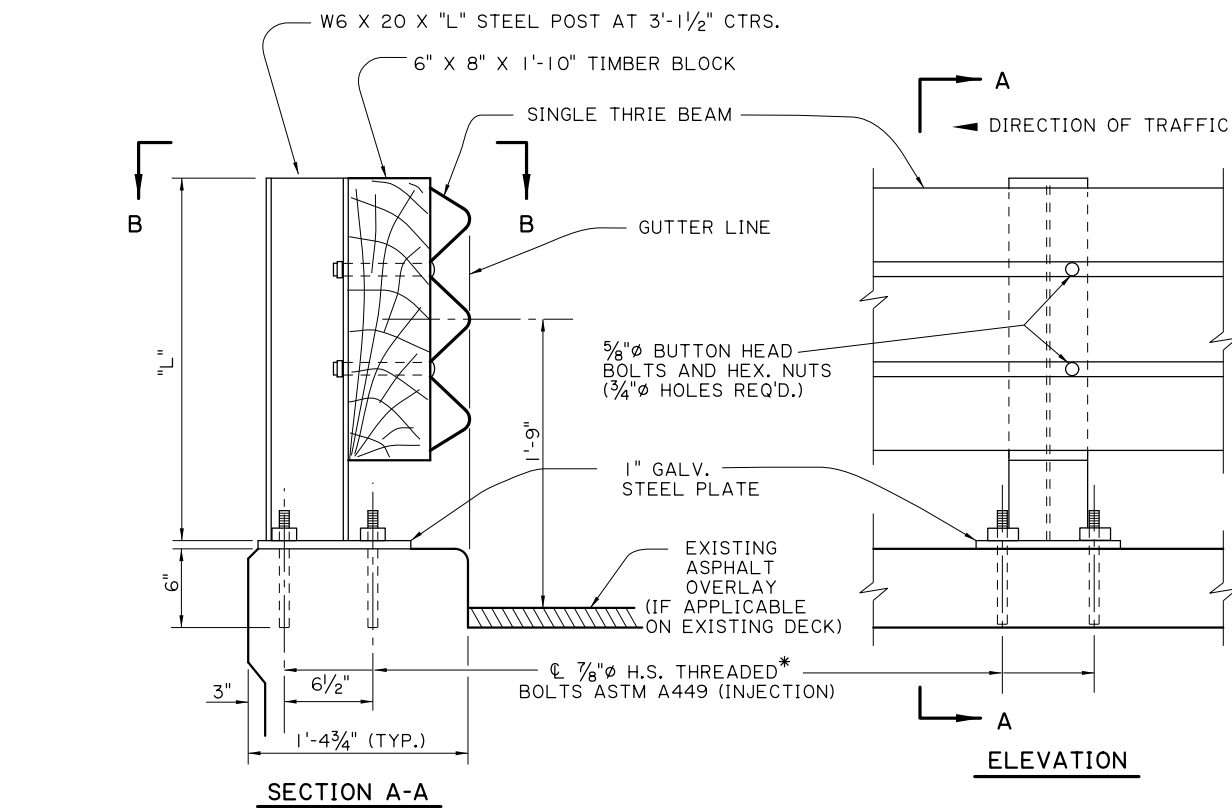




NOTES

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE
STANDARD PLANS FOR HIGHWAY GUARD RAIL (MASH).

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'-1½" POST SPA.)

GUARD RAIL SPLICES SHALL BE MADE AT POST
LOCATIONS ONLY. LAP IN DIRECTION OF TRAFFIC.

* DRILL 1"Ø HOLES, 6" DEEP FOR 7/8"Ø GALVANIZED BOLT. USE 7/8" 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 $\frac{7}{8}$ " ϕ INJECTION SYSTEM AS LISTED ON APPROVED MATERIALS LIST, PRODUCT CATEGORY "CONCRETE ANCHOR SYSTEMS." PLACE BOLT IN HOLE 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.

THIS DETAIL WAS DEVELOPED AND APPROVED FOR USE UNDER NCHRP REPORT 350. AS PER LADOTD'S MASH IMPLEMENTATION POLICY, ITS CONTINUED USE IS ALLOWED WHILE A MASH ALTERNATIVE IS DEVELOPED OR EVALUATED.

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT STANDARD PLAN										TOP MOUNTED GUARD RAIL (FOR BOX CULVERTS)																				NO.		DATE		REVISION OR CHANGE ORDER DESCRIPTION																				BY	
																														GRR-02																									
SHEET NUMBER		PARISH		DESIGN P. FOSSIER		CHECK C. GAUDRY		J. DOUCET		CONTROL SECTION		STATE PROJECT		APPROVED BY CHIEF ENGINEER:  DATE: 6/29/2026 SERIES # 1 OF 1																																									