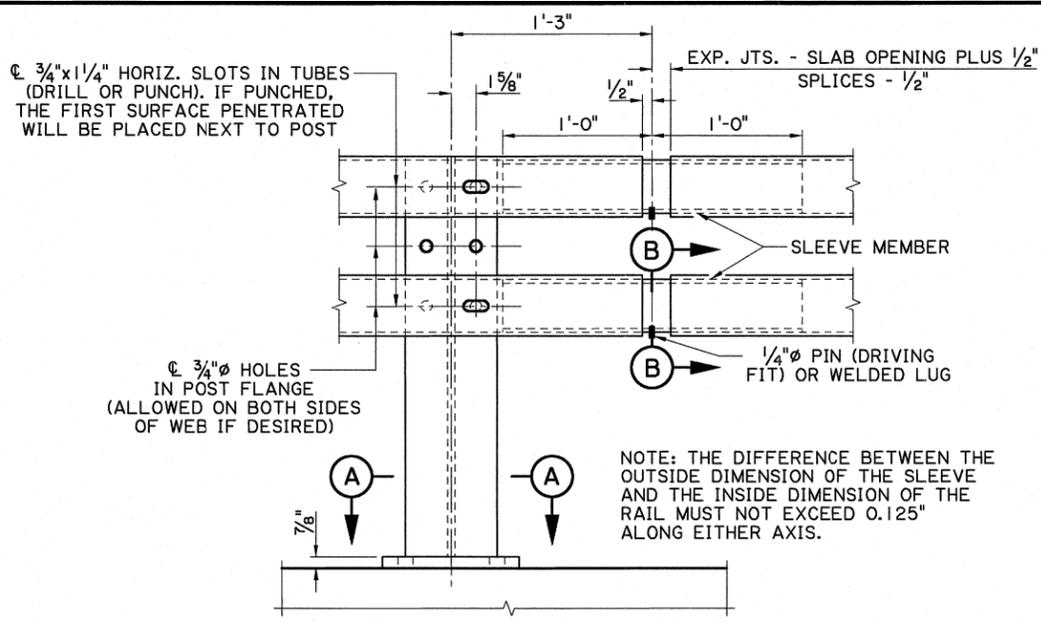
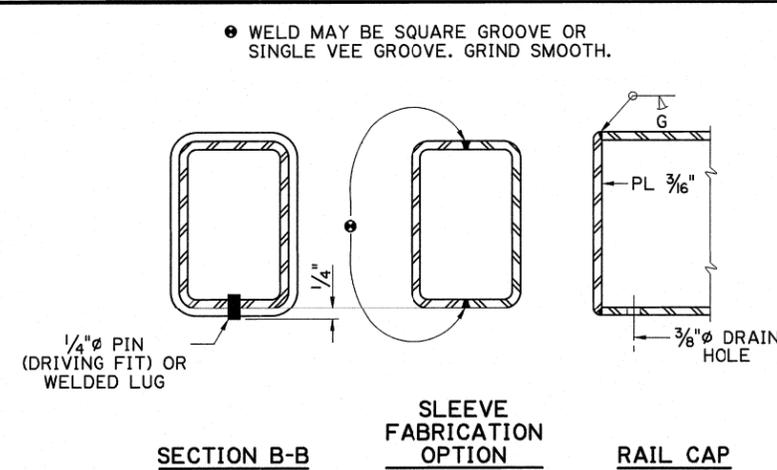


SECTION THROUGH RAIL



TUBE SPLICE DETAILS



SECTION B-B

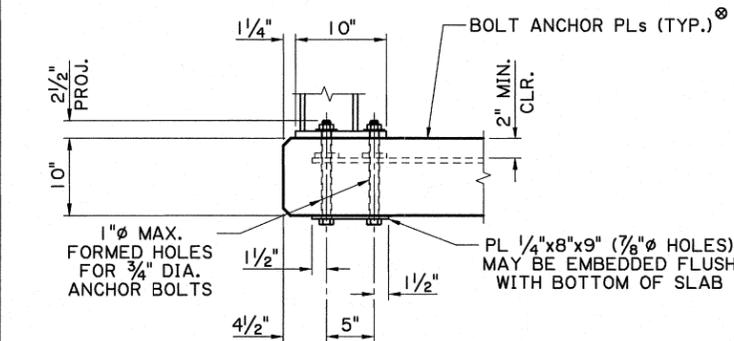
SLEEVE FABRICATION OPTION

RAIL CAP

TUBE & SLEEVE MEMBERS		
RAIL MEMBER	SLEEVE THICKNESS	
MATERIAL	THICKNESS	MATERIAL A36
A 500 GRADE C	0.188"	0.188"
A 500 GRADE B	0.250"	0.250"
A 500 GRADE A OR A 501	0.313"	0.250"

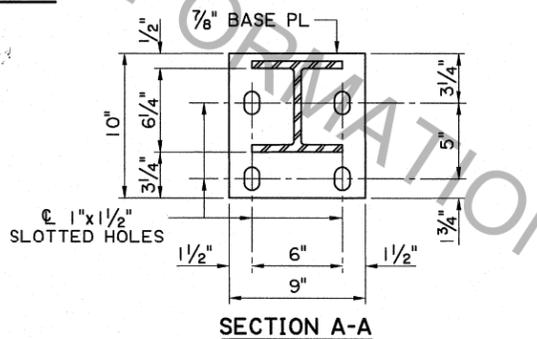
NOTE: OTHER SECTIONS OF EQUAL OR GREATER STRENGTH ARE ACCEPTABLE FOR SLEEVES.

* IN LIEU OF WELD SHOWN, A 3/8" FILLET WELD ALL AROUND INCLUDING EDGES OF FLANGE MAY BE USED.

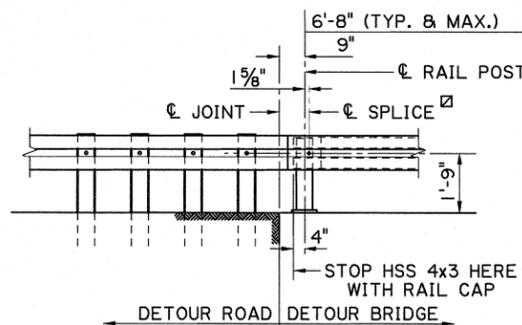


SLAB CONNECTION

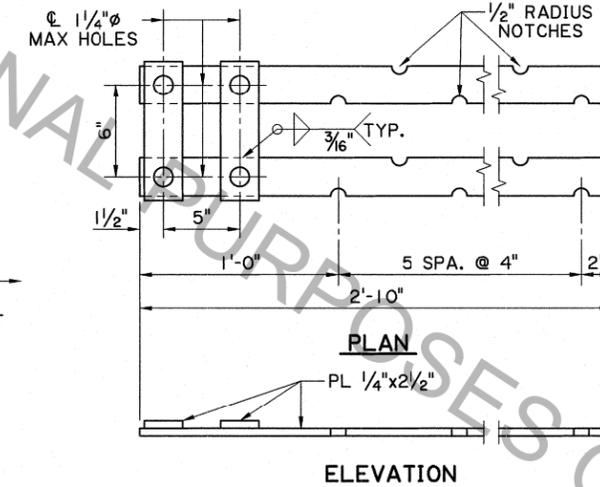
⊗ INSTALL ONE ANCHORAGE PLATE ASSEMBLY IN SLAB AT EACH RAIL POST. DO NOT GALVANIZE OR OIL THIS ASSEMBLY. BOLT ANCHORAGE PLATES MAY NOT BE CUT.



SECTION A-A



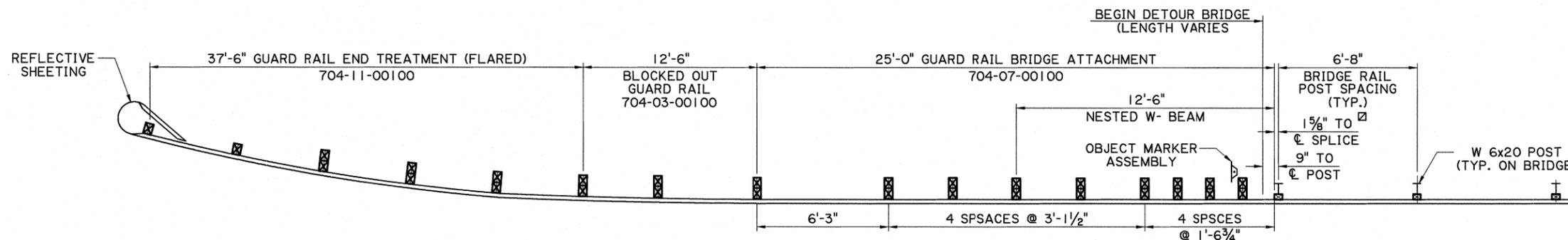
CONNECTION DETAIL



BOLT ANCHORAGE PLATES

NOTES:

- FOR MORE GUARD RAIL INFORMATION, SEE STANDARD PLAN GR-200.
- THIS RAIL HAS BEEN APPROVED AS A NCHRP 350-TEST LEVEL 3 BARRIER.
- ALL STEEL POSTS AND PLATES SHALL CONFORM TO (ASTM-A36).
- GALVANIZE ALL STEEL COMPONENTS UNLESS OTHERWISE SHOWN ON PLANS. ANCHOR BOLTS ARE 3/4" ASTM-A325 BOLTS OR A449 HEAVY HEX BOLTS (OR A449 THREADED RODS WITH ONE TACK WELDED HEAVY HEX NUT EACH) WITH ONE HEAVY HEX NUT AND ONE 2" O.D. WASHER (0.122" MIN. THICK) AT EACH BOLT. OPTIONALLY USE RECTANGULAR 3/8"x2"x3" ASTM-A36 PLATE WITH 13/16" HOLE.
- ATTACH SECTION LENGTHS OF HSS 4x3 MEMBERS CONTINUOUSLY TO A MINIMUM OF THREE POSTS (EXCEPT AT ABUTMENTS WITH EXPANSION JOINTS). FACE OF RAIL AND POSTS MUST BE VERTICAL TRANSVERSELY UNLESS OTHERWISE APPROVED BY THE BRIDGE DESIGN ENGINEER. POSTS MUST BE PERPENDICULAR TO ADJACENT ROADWAY GRADE. USE EPOXY MORTAR UNDER POST BASE PLATES IF GAPS LARGER THAN 1/16" EXIST.
- FOR ALL RAILS, ERECTION DRAWINGS SHOWING LENGTHS, SPLICE LOCATIONS, RAIL POST SPACING AND ANCHOR BOLT SETTING SHALL BE SUBMITTED TO THE BRIDGE ENGINEER FOR REVIEW.



TYPICAL DETOUR GUARD RAIL LAYOUT WITH STEEL BRIDGE POSTS (EA. BRIDGE END)



5/8/2012

SHEET NUMBER	PARISH	CONTROL SECTION	STATE PROJECT
DESIGNED T. LE	CHECKED K. BRAUNER	DETAILED G. BRASS	CHECKED K. BRAUNER
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
15 OF 15	15 OF 15		
BD2.8.1.0.15 DETOUR BRIDGE			
GUARD RAIL & BARRIER RAIL DETAILS			
BRIDGE & STRUCTURAL DESIGN			