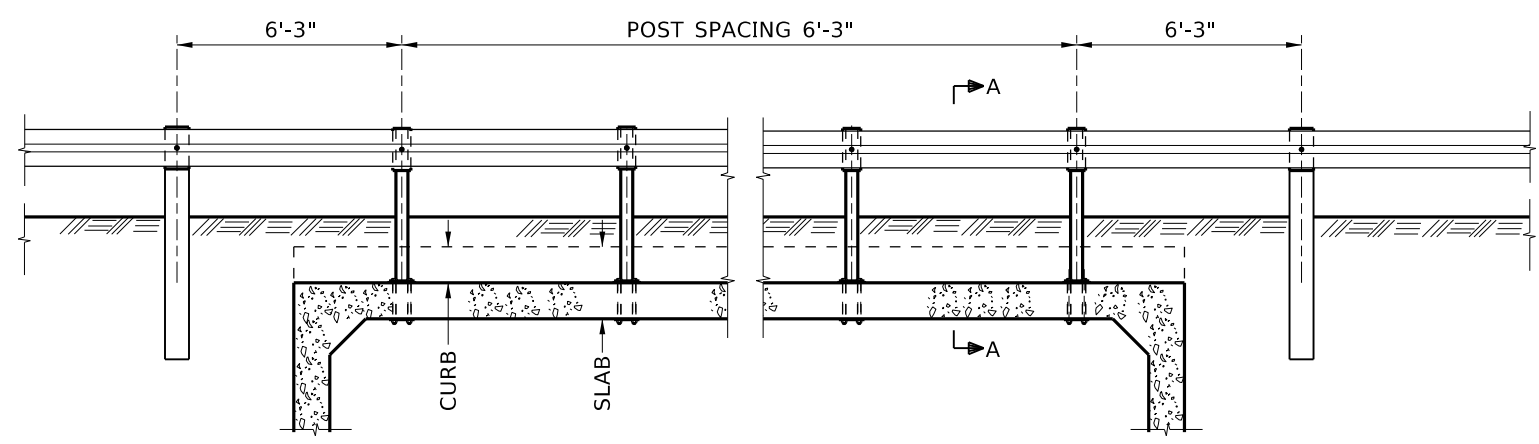
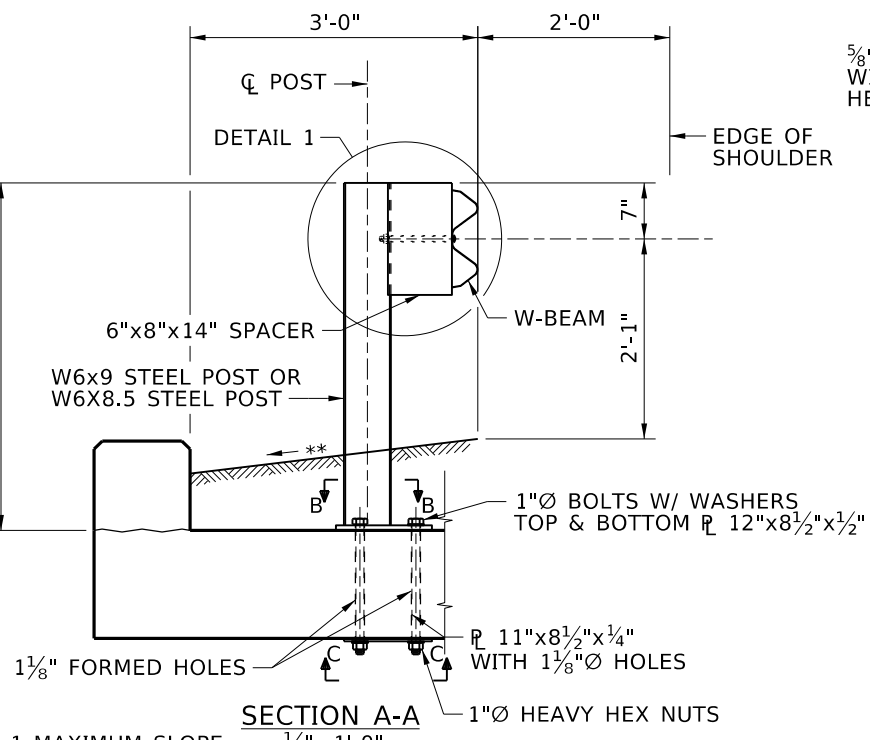


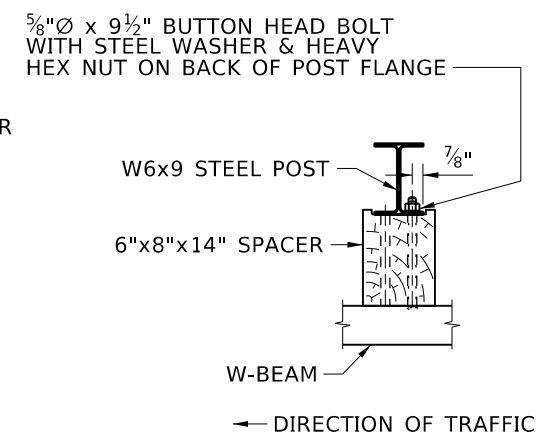
**GUARDRAIL PLAN**  
3/16" = 1'-0"



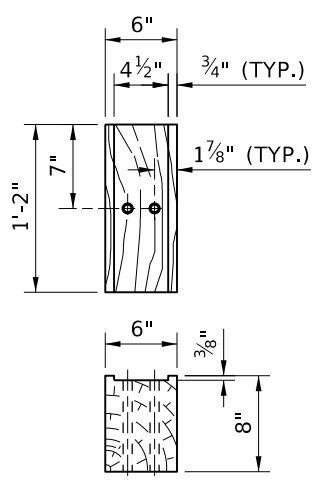
**GUARDRAIL ELEVATION**  
3/16" = 1'-0"



**SECTION A-A**  
1/2" = 1'-0"



**DETAIL 1**  
3/4" = 1'-0"



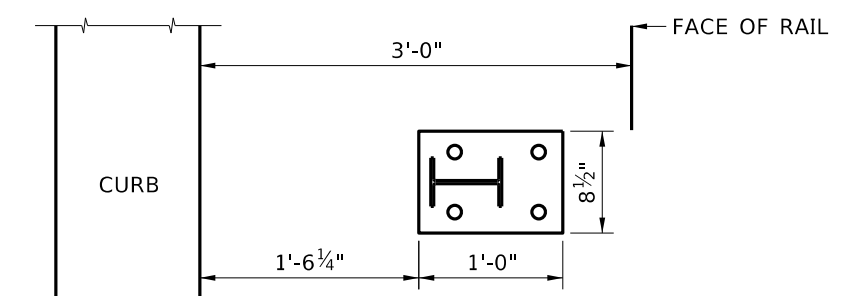
**WOOD BLOCKOUT**  
SEE NOTE 11  
3/4" = 1'-0"

**GENERAL NOTES**

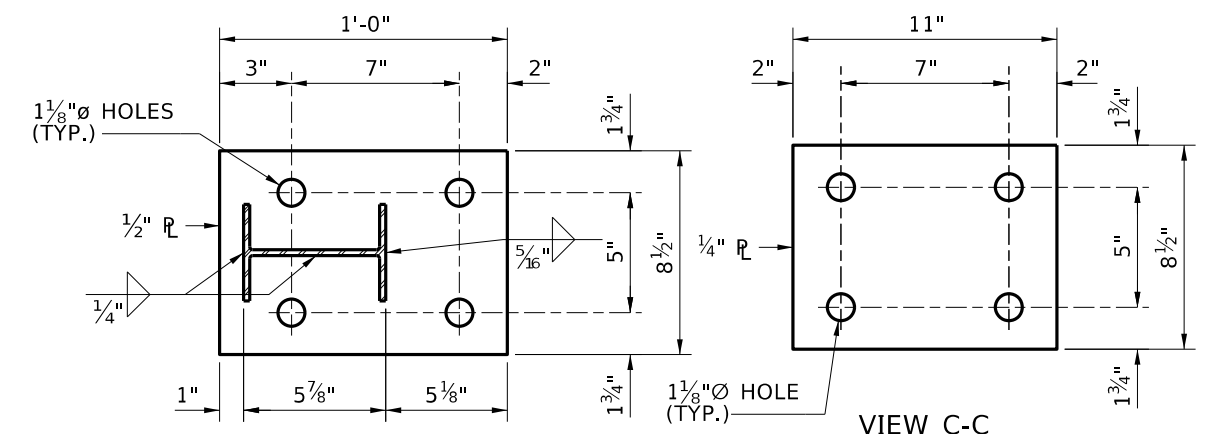
1. PROVIDE MATERIAL FOR STEEL POST AND PLATES IN ACCORDANCE WITH ASTM A709 GRADE 50.
2. PROVIDE WOOD SPACER BLOCKS IN ACCORDANCE WITH 710.03
3. PROVIDE ANCHOR BOLTS IN ACCORDANCE WITH ASTM F1554 GRADE 55 AND NUTS IN ACCORDANCE WITH ASTM A563 GRADE A, HEX OR HEAVY HEX.
4. GALVANIZE GUARDRAIL POSTS, HARDWARE AND ACCESSORIES AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 OR ASTM A153 EXCEPT AS OTHERWISE NOTED.
5. PROVIDE WASHERS IN ACCORDANCE WITH ASTM F436, TYPE 1.
6. WELD IN ACCORDANCE WITH AASHTO/AWS D1.5 STANDARD SPECIFICATIONS FOR WELDING OF STRUCTURAL STEEL HIGHWAY BRIDGES.
7. PROVIDE 3 COPIES OF CERTIFIED MILL TEST REPORTS COVERING RAIL MATERIAL, POSTS, ANCHOR BOLTS AND OTHER MATERIAL AS REQUESTED.
8. SET RAIL POSTS PLUMB.
9. SEE ROADWAY PAY ITEM 612-005A FOR GUARD RAIL, RAILS, POSTS WITH ATTACHMENTS, AND ANCHORAGES AS SHOWN ON THE PLANS.
10. SEE ROADWAY STANDARD DRAWING 612-1 FOR HOLE LOCATIONS IN POST.
11. SEE ROADWAY STANDARD DRAWING 612-1, NOTE 10 FOR USE OF POLYETHYLENE BLOCKOUTS.

POST HEIGHT	1ST POST	2ND POST	3RD POST	4TH POST
LEFT SIDE*				
RIGHT SIDE*				

**POST HEIGHT**  
\* LOOKING AHEAD ON STATION



**ANCHOR BOLT LOCATION**  
3/4" = 1'-0"



**SECTION B-B**  
1 1/2" = 1'-0"

**VIEW C-C**  
1 1/2" = 1'-0"

\*\*10:1 MAXIMUM SLOPE  
1/2" = 1'-0"

REVISIONS			DESIGNED	<p style="text-align: center;"><b>IDAHO TRANSPORTATION DEPARTMENT</b></p> <p style="text-align: center;">YOUR Safety → YOUR Mobility → YOUR Economic Opportunity</p>	ENGLISH	W-BEAM RAILING, THROUGH BOLT ANCHORAGE	BRIDGE PLANS		
NO.	DATE	BY	DESCRIPTION		DESIGN CHECKED	PROJECT NO.	FOR RAIL RETROFIT PROJECTS, USE STD. DWG.	BRIDGE KEY NO.	
					DETAILED		612-1 DETAILS	COUNTY	KEY NO.
					DWG. CHECKED		BRIDGE LRFD DESIGN MANUAL B13.6A	BRIDGE DWG. NO.	SHEET OF
					CORRECTIONS				