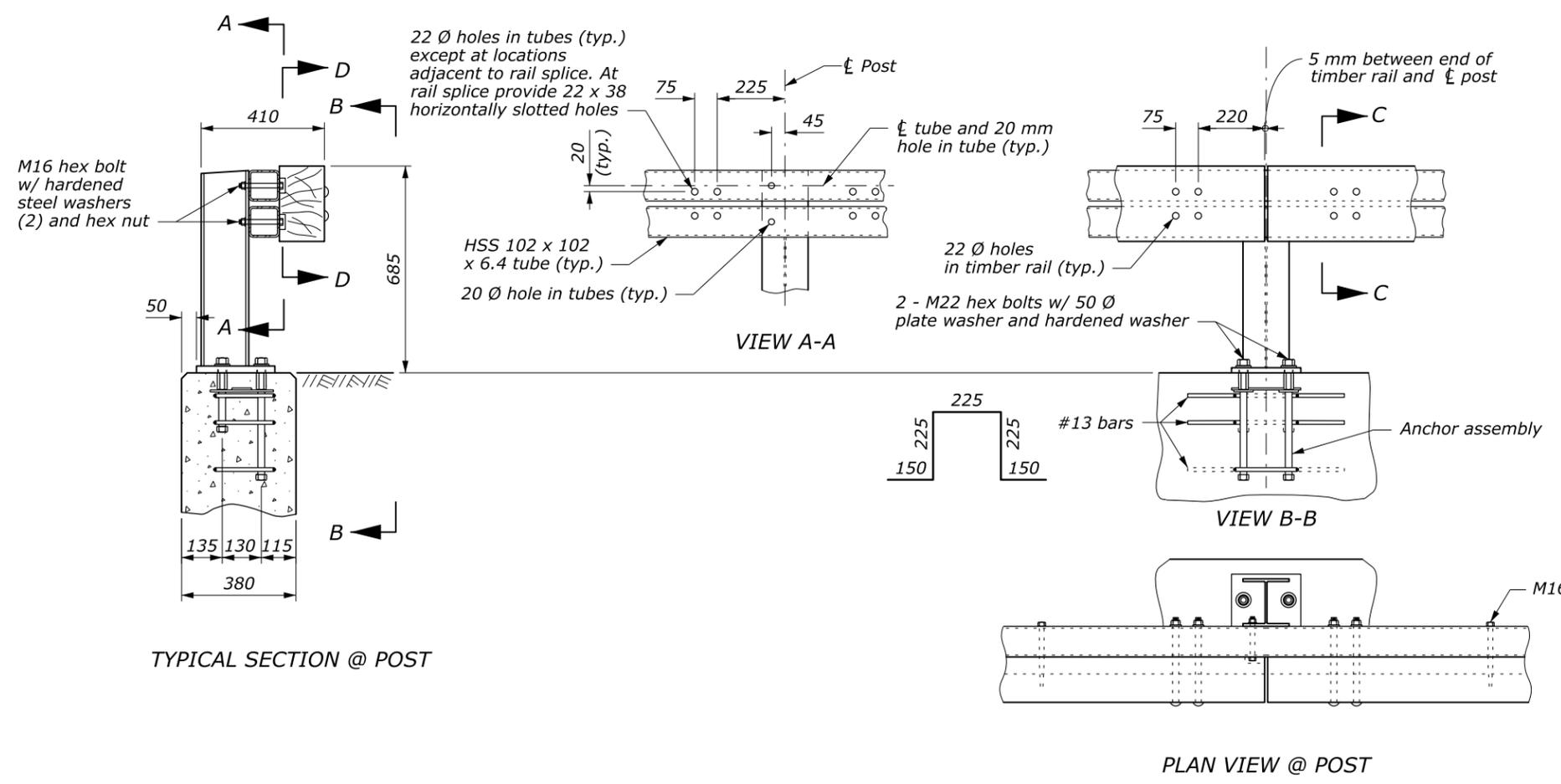


HSS 102 x 102 x 6.4 TUBES ELEVATION

BRIDGE RAIL ELEVATION

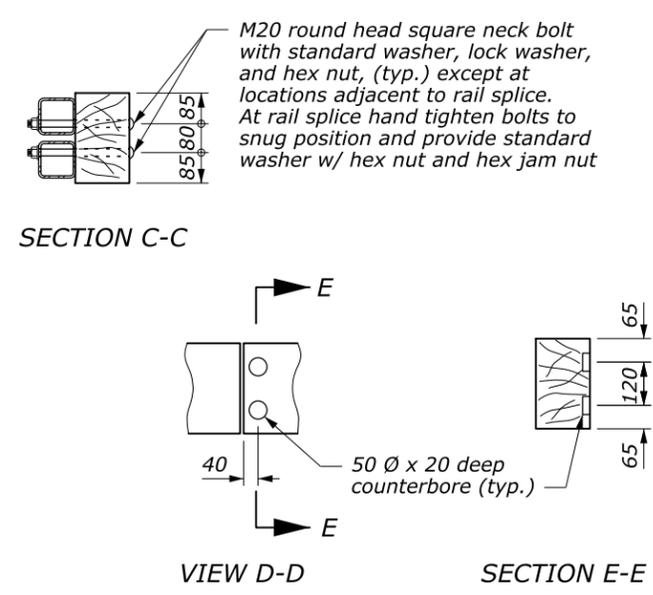
NOTE:

1. Steel for rail posts, base plates, shims, splice sleeves, and anchor assembly plates conforms to ASTM A36. Structural tubing for rails conforms to ASTM A500, Grade B. Paint all metal components of the bridge rail except post base shims, anchor assemblies, and rail splice sleeves. Galvanize post base shims, anchor assemblies, and rail splice sleeves. Hex bolts conform to AASHTO M164 (ASTM A325). Hex coupling nuts conform to ASTM A563, Grade C, D, or DH and shall have a center stop. All other fasteners conform to ASTM A307. See Special Contract Requirements for painting.
2. Shop fabricate structural steel. Submit shop drawings to the CO for approval before fabrication. Provide drawings showing rail section lengths, splice locations, rail post spacing, and fastener lengths. Welding conforms to AASHTO/AWS D1.5. Use a certified welder. Fabricate all steel before galvanizing or painting.
3. Section lengths of HSS 102 x 102 rails shall be continuous over a minimum of three posts.
4. Provide neat cement grout consisting of a mixture of cement and water mixed to a smooth viscous paste.
5. Erect the rail parallel to grade.
6. Dimensions without units are millimeters.



TYPICAL SECTION @ POST

PLAN VIEW @ POST

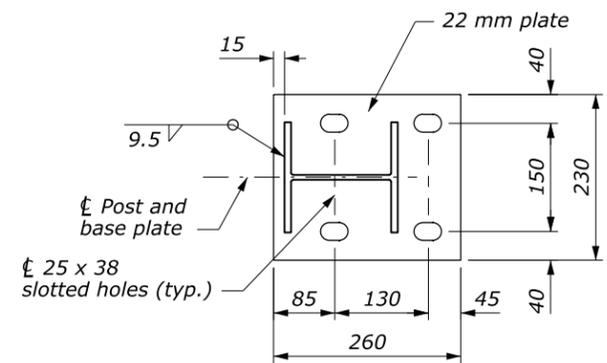


NO SCALE

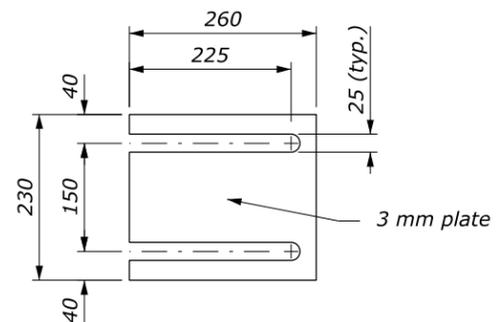
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
METRIC STANDARD	
TUBULAR STEEL-BACKED TIMBER BRIDGE RAIL	
Sheet 1 of 2	
STANDARD APPROVED FOR USE --/---	STANDARD M556-1
REVISED: DRAFT: 4/2014	

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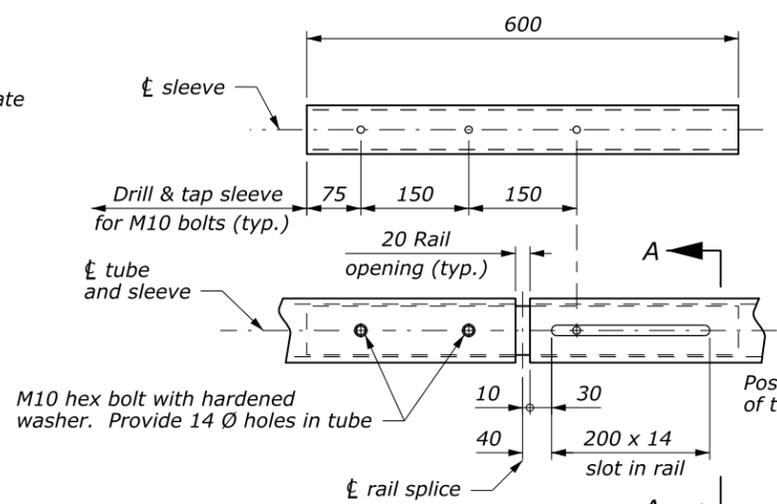
NOTE:
1. Dimensions without units are millimeters.



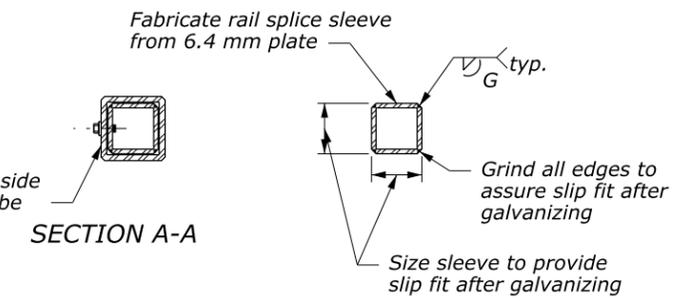
BASE PLATE DETAIL



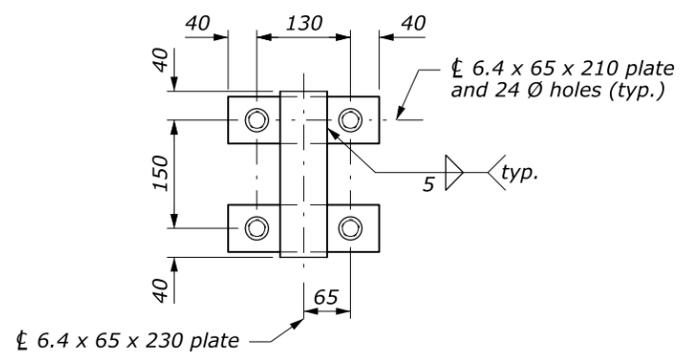
RAIL POST BASE SHIM



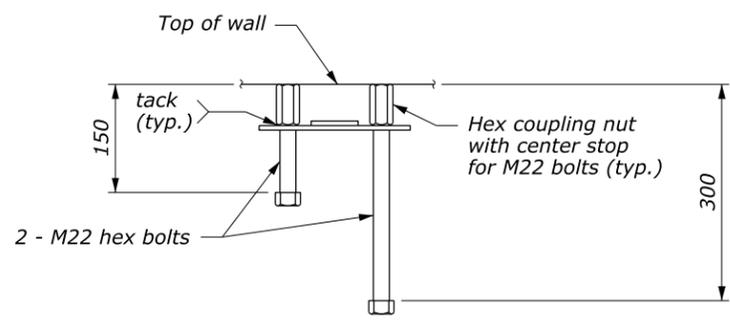
RAIL SPLICE DETAIL



SLEEVE

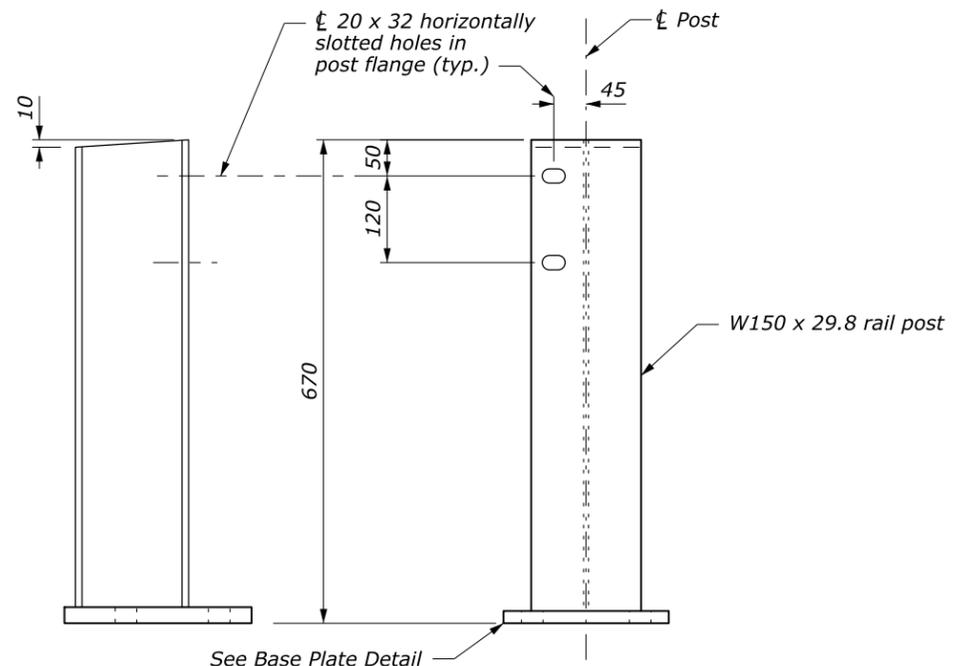


PLAN



ELEVATION

ANCHOR ASSEMBLY



POST ASSEMBLY

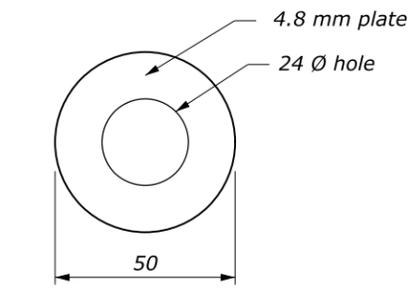


PLATE WASHER

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
METRIC STANDARD	
TUBULAR STEEL-BACKED TIMBER BRIDGE RAIL	
Sheet 2 of 2	
STANDARD APPROVED FOR USE --/---	STANDARD
REVISED: DRAFT: 4/2014	M556-1

NO SCALE

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