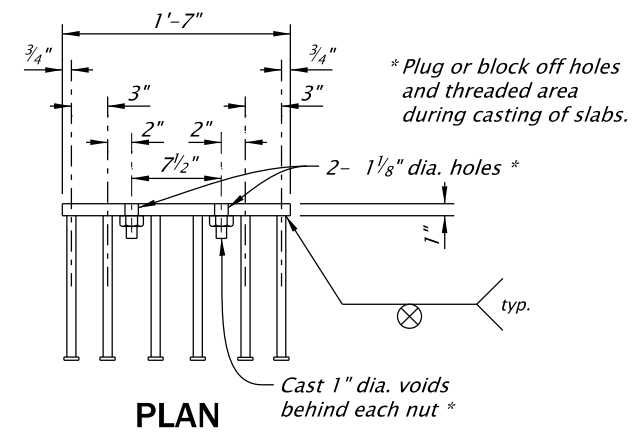
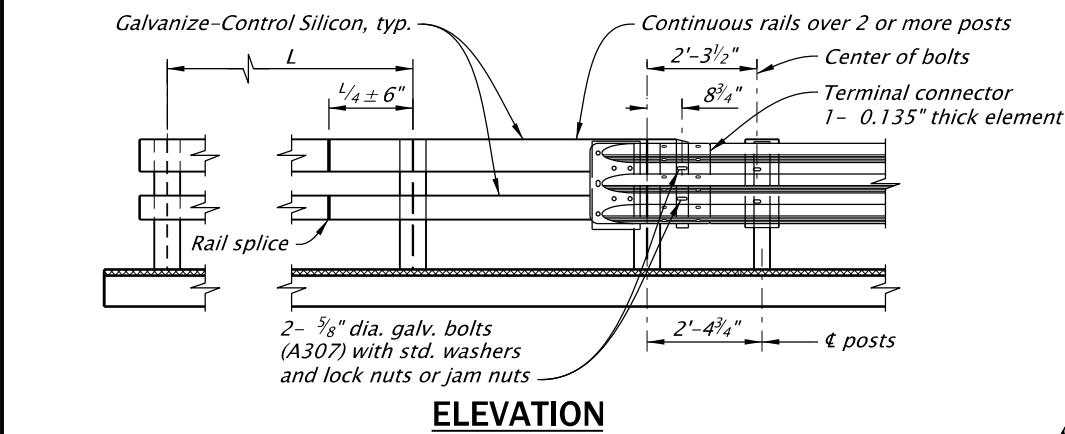
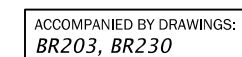
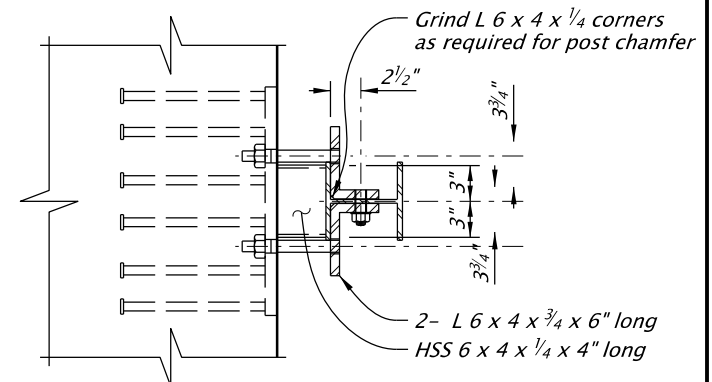




1. Provide structural tubing according to Oregon Standard Specification 2810.20.
2. Provide structural steel shapes and plates conforming to AASHTO Specification M183 (ASTM A36) unless otherwise noted.
3. Provide bolts conforming to AASHTO Specification M164 (ASTM A325) unless otherwise noted.
4. Fabricate steel studs with material, welding and inspection according to AWS D1.5.
5. Construct rail normal to slab in both the longitudinal and the transverse directions. When wearing surface thickness varies due to beam camber and/or superelevation, vary rail post lengths to provide uniform rail height. Field verify post lengths before fabrication.
6. Hot-dip galvanize structural steel including fasteners after fabrication. Provide Galvanize-Control Silicon posts and horizontal rail steel tubing according to ODOT Specification 02530.70. Tap nuts 0.021+0.01- 0.00 oversize after galvanizing in accordance with ASTM A563.
7. Tighten upper post bolts 180° turn past snug tight condition and lower post bolts 120° turn past snug tight condition.
8. Estimated rail mass (for slab design) is 72 pounds per linear foot.
9. Do not use this rail for 12" and Slab number 9 of the 15" Standard Precast Slabs.



The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

2-TUBE SIDE MOUNT RAIL

2024

	DATE	REVISION DESCRIPTION
A	12-2020	Modified detail note text; changed General Notes 4 & 7; CAD updates.
B	01-2022	Modified General Note 4, removed "Section 7" notation.
C	01-2024	Revised hole diameters.
D	07-2025	Girder end clarification; CAD updates.

CALC.
BOOK NO. - - - N/A - - -

SDR
DATE **11-JULY-2025**

BR226