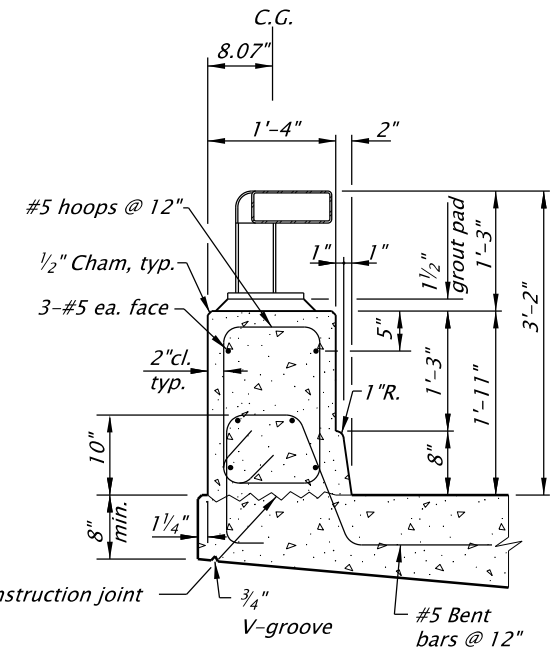
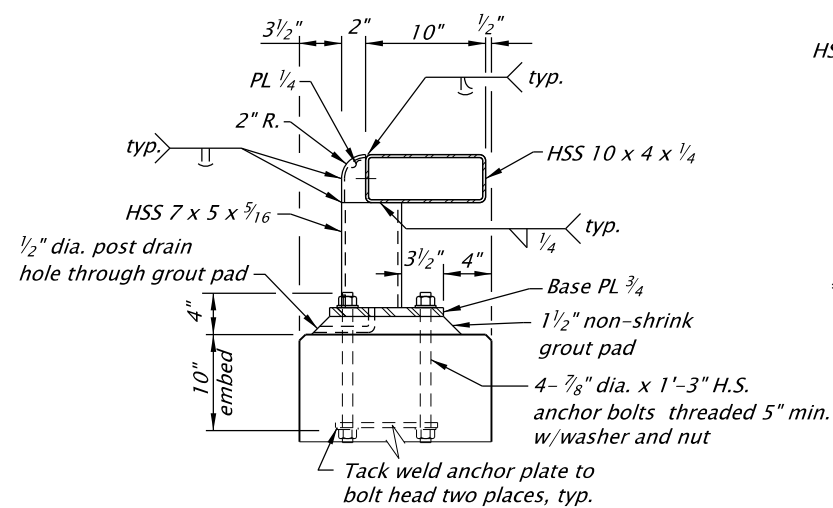




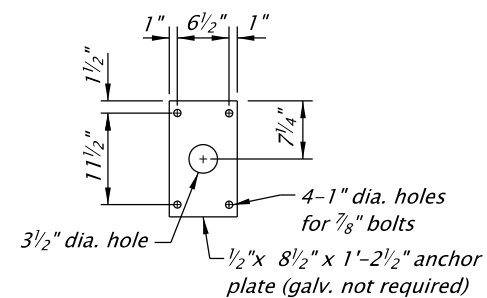
SECTION B-B

ELEVATION

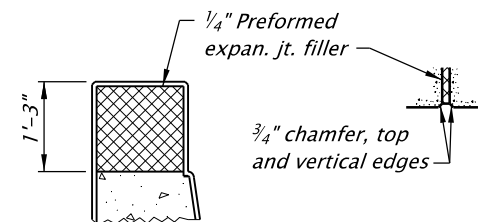


BASE PLATE DETAIL

STRUCTURAL TUBE RAIL DETAIL

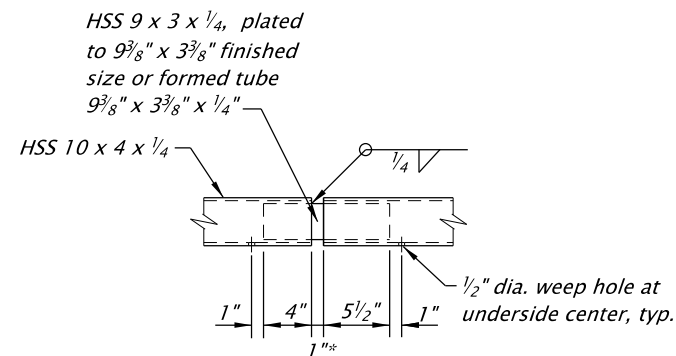


ANCHOR PLATE DETAIL



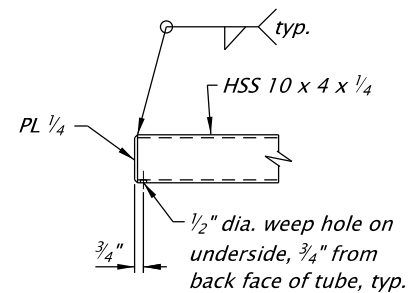
SECTION C-C

DEFLECTION JOINT DETAIL

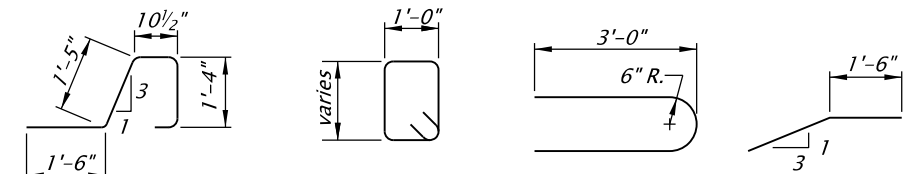


**1" gap unless otherwise required. When more than 2" movement is needed increase length of inner member.*

RAIL SPLICE DETAIL



RAIL END DETAIL



#5 BENT BAR

#5 HOOPS

#7 U-BAR

#5 L-BAR

GENERAL NOTES

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- Rail designed and crash tested to meet NCHRP 350 TL-4 requirements.*
- Provide structural tubes conforming to Oregon Standard Specifications 2810.20.*
- Provide steel plates conforming to AASHTO M183 (ASTM A36).*
- Provide High Strength anchor bolts (Grade 105) according to Oregon Standard Specification 02560.30 (b).*
- Provide reinforcing steel conforming to ASTM A706 or AASHTO M31 (ASTM A615) Grade 60.*
- Provide Concrete Class 3300 – 1½ or ¾.*
- Construct railing conforming to the horizontal and vertical alignment of the structure.*
- Install posts normal to grade in longitudinal direction and vertical in transverse direction.*
- Provide galvanize-control silicon according to Oregon Standard Specification 02530.70.*
- Hot-dip galvanize all structural steel including fasteners after fabrication.*
- See Special Provisions for paint requirements.*
- Tap nuts and inserts 0.021" oversize after galvanizing in accordance to ASTM A563.*

Accompanied by dwg. BR203

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.

OREGON STANDARD DRAWINGS

**CONCRETE PARAPET WITH
STEEL POST**

2024

DATE		REVISION DESCRIPTION	
-	-		

CALC. BOOK NO. - - - -	N/A - - - -	SDR DATE - 20-APR-2018 -	BR214
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Effective Date: June 1, 2026 – November 30, 2026