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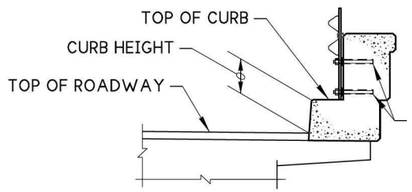
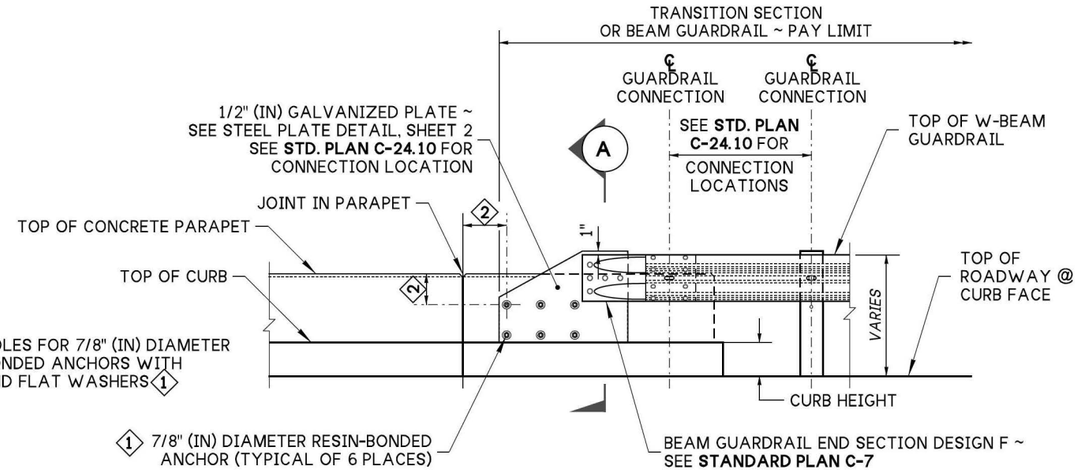


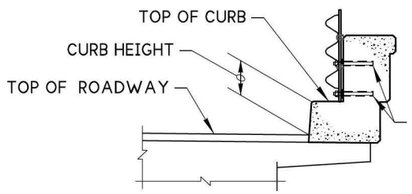
SECTION (A)

(CURB SHOWN, SIDEWALK SIMILAR)



ELEVATION VIEW

W-BEAM GUARDRAIL CONNECTION



SECTION (B)

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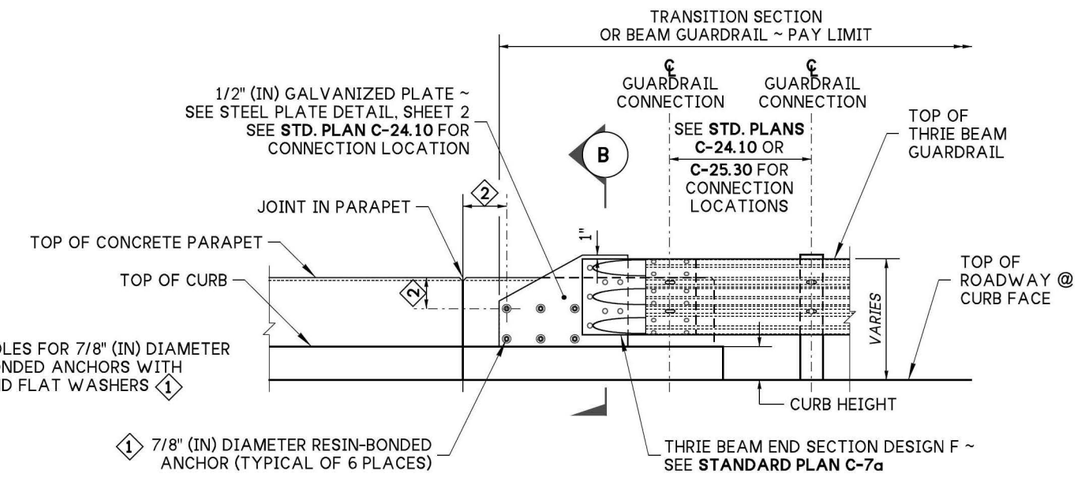
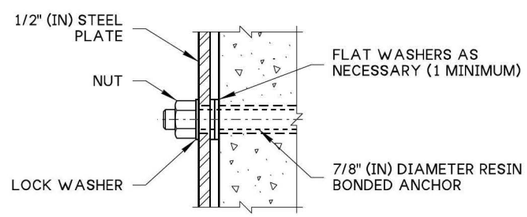


ELEVATION VIEW

THRIE BEAM GUARDRAIL CONNECTION

KEY NOTES

1. Embedment and hole diameter per Manufacturer's recommendation, except embedment shall be 7 7/8" (in) min. ~ See "Hardware Assembly Detail". Do not damage existing reinforcement. Core drilling allowed if existing reinforcement is located prior to drilling. Roughen edges of core drilled holes.
2. Center of resin bonded anchors shall be a minimum of 4" (in) from concrete joints and edges.
3. Hole locations may be adjusted horizontally to avoid existing reinforcement. ℄ of holes shall have 1" (in) clearance minimum from plate and guardrail end section edges and shall be spaced a minimum of 6" (in) apart. Holes may be field drilled, in which case they shall be painted with two coats of paint conforming to **Standard Specification Section 9-08.1(2)B**.



HARDWARE ASSEMBLY DETAIL

NOTES

1. All material and quality of work shall be in accordance with requirements of the current edition of the **WSDOT Standard Specifications for Road, Bridge and Municipal Construction (M 41-10)**.
2. Material Specifications:
   Steel shapes & Plates.....**ASTM A 36**

   Bolts, Nuts & Washers,
   unless otherwise noted.....**Standard Specification Sections 9-16.3(3) & 9-16.3(4)**

   Resin Bonded Anchors
   (all thread).....**Standard Specification Section 9-06.4**
3. All steel plates shall be galvanized in accordance with **AASHTO M 111**, after fabrication. Bolts and hardware shall be galvanized in accordance with **AASHTO M 232**.
4. All bolt holes shall be 1/16" (in) larger than the bolt diameter unless otherwise specified. Use template to locate holes in concrete. Bolt lengths not shown shall be sized to provide 1/4" (in) minimum of thread exposed beyond the nut.
5. Remove existing anchors in accordance with **Standard Specification Section 8-11.3(1)D** (Typical).
6. Resin bonded anchor grouping for a steel plate shall not bridge over a bridge deck expansion joint.

Aug 6, 2026

BEAM GUARDRAIL CONNECTION TO STRUCTURE ~ ADAPTER PLATE STANDARD PLAN C-24.15-01

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

Mark A Bowers Aug 6, 2026

STATE DESIGN ENGINEER

Washington State Department of Transportation

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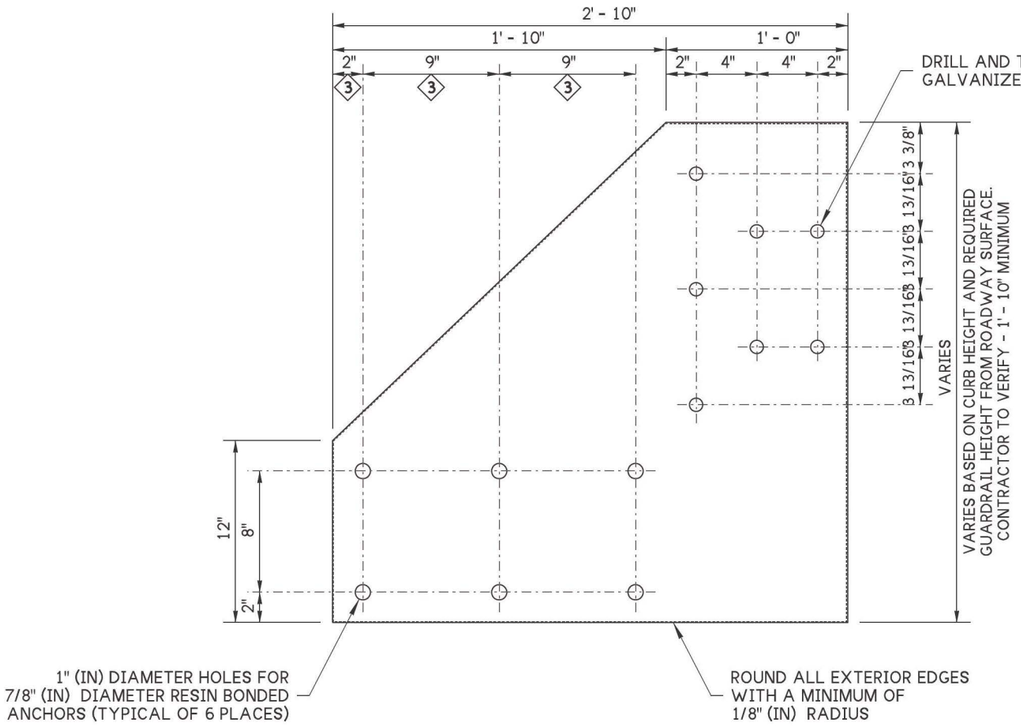
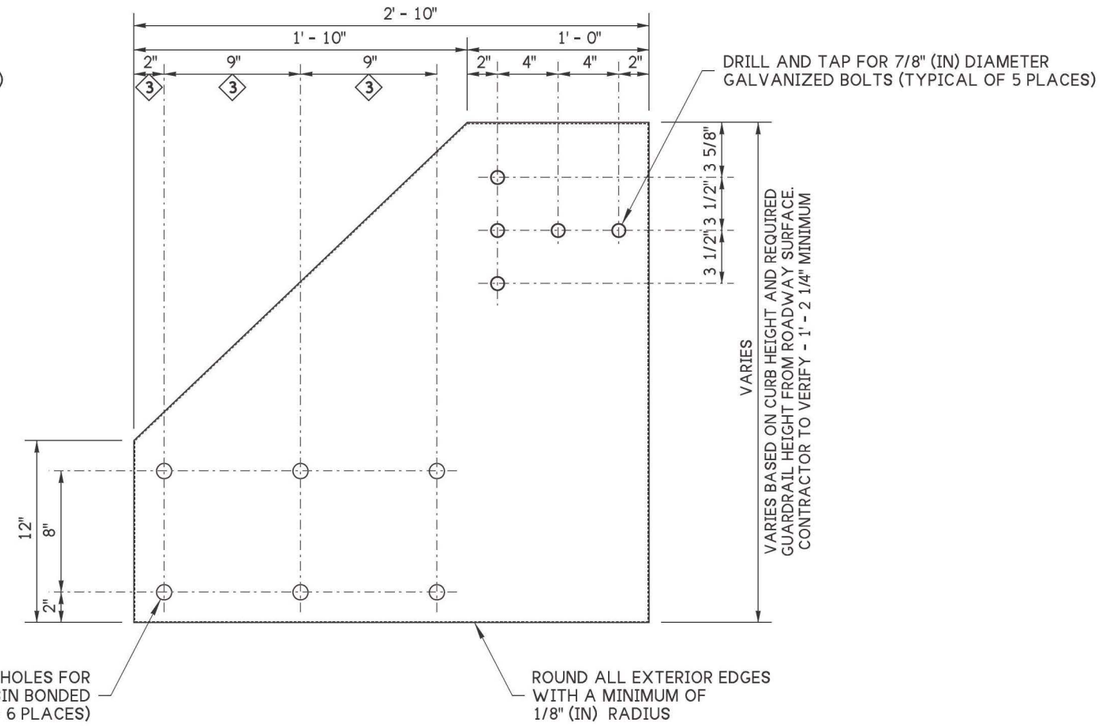
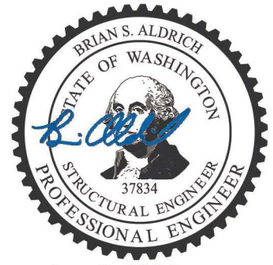


THRIE BEAM



W-BEAM

STEEL PLATE DETAIL



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SHEET 2 OF 2 SHEETS

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