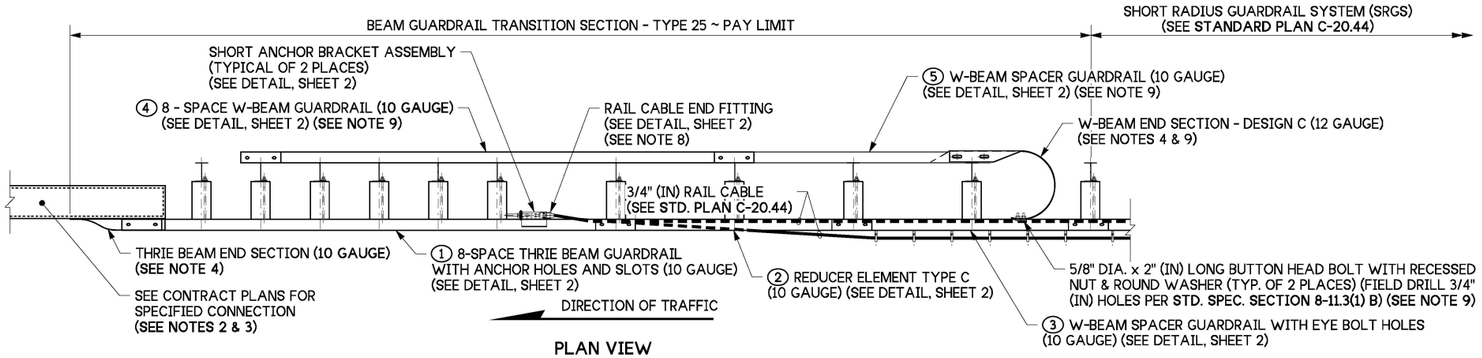
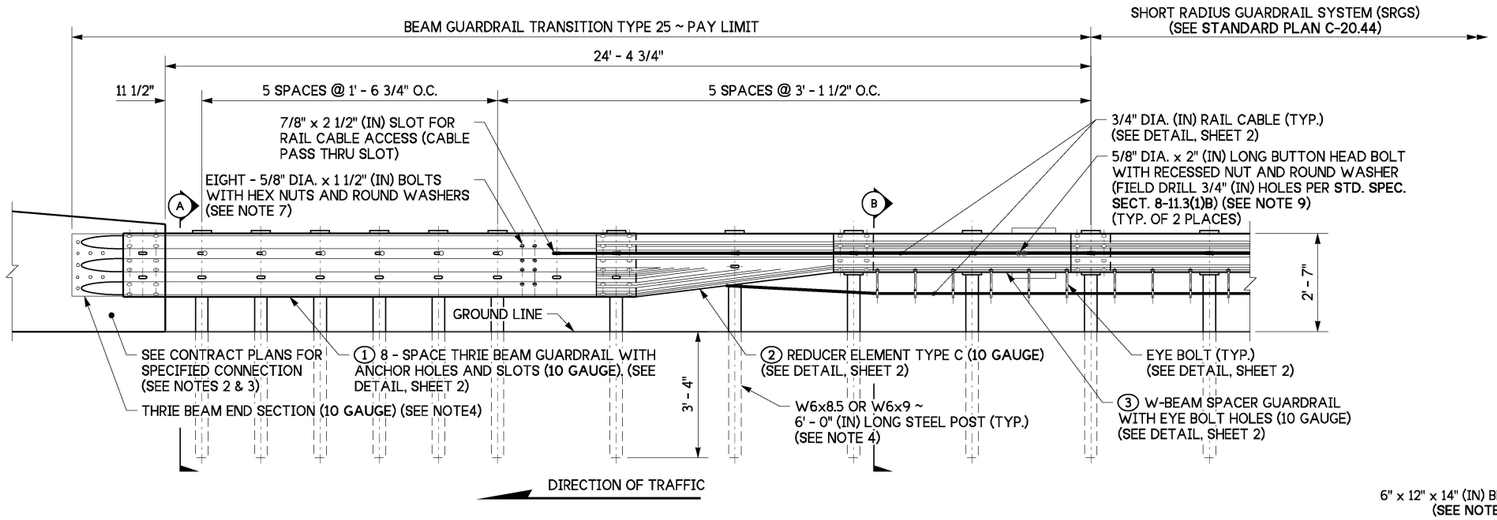
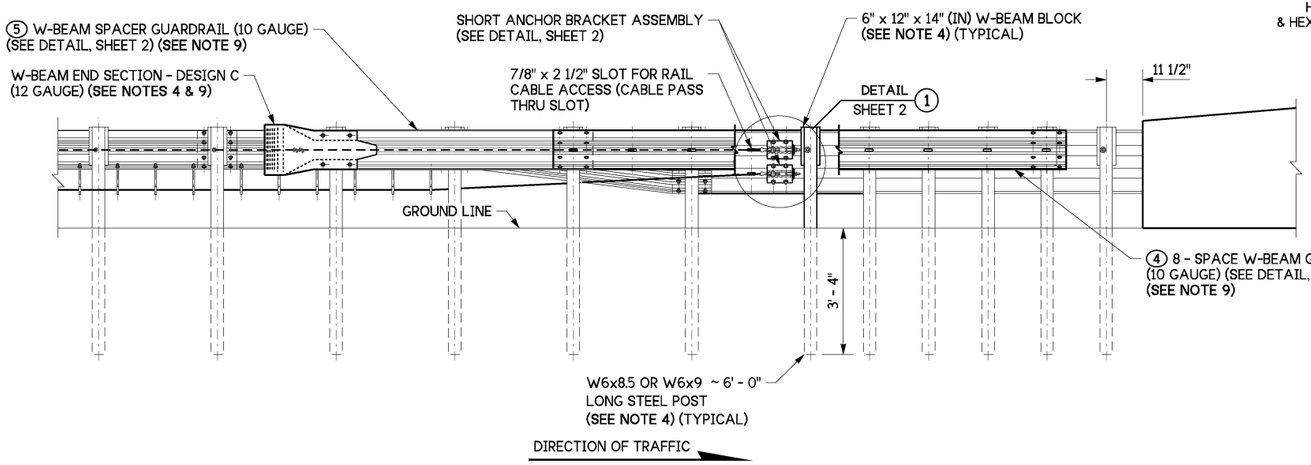


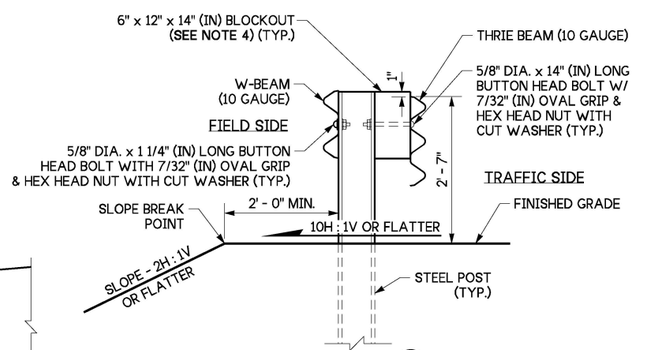
PLAN VIEW



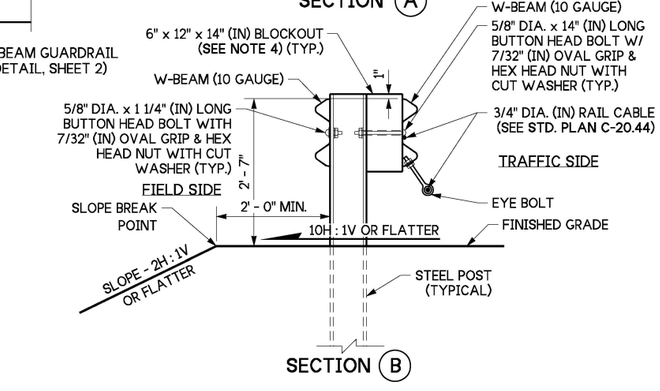
ELEVATION VIEW
(TRAFFIC SIDE)



ELEVATION VIEW
(FIELD SIDE)



SECTION (A)



SECTION (B)

NOTES:

1. The **Beam Guardrail (Type 31) Transition Section Type 25** shall only be used with the **Short Radius Guardrail System (SRGS)**. See **Standard Plan C-20.44**.

2. This guardrail transition is for connection to a vertical concrete shape, a single slope, or a safety-shape barrier. The toe of the single slope and the safety-shape barrier shall be tapered so that the toe of the barrier does not project past the face of the approach guardrail.

3. See **Standard Plan C-24.10** for details regarding connection to bridge rail or traffic barrier.

4. For details of typical components not shown, see **Standard Plans**
   - **C-1b Beam Guardrail Posts and Blocks**
   - **C-7 Beam Guardrail End Sections**
   - **C-7a Thrie Beam End Sections**
   - C-20.10 Beam Guardrail Type 31

5. See **Standard Plans A-50.10** or **A-50.40** for beam guardrail transition grading details at bridge ends.

6. It is permissible to fabricate the anchor plate from 1/4" (in) thick plates welded to equal strength and dimensions shown.

7. Two Short Anchor Brackets with four (4x) 5/8" x 1 1/2" (in) machine bolts w/hex nut and washer each. Place washer on face side of rail.

8. Fasten the Rail Cable Assembly using a single 3/4" (in) nut and washer at both ends of the cable.

9. An additional **18' - 9" W-beam Rail** is attached to the back of the **Beam Guardrail (Type 31) Transition Section Type 25**. This w-beam backrail is directly connected to the posts without blockouts. Fasten the "W-Beam End Section - Design C" to the back of the "W-Beam Spacer Guardrail with Eyebolt Holes" using two 5/8" dia. x 2" (in) long button head bolts with recessed nuts and round washers. Place the washers under the nuts. Furnishing and installing w-beam backrail, rounded end section and associated hardware shall be included in the **Beam Guardrail (Type 31) Transition Section Type 25 Bid Item.**

Jul 25, 2024

BEAM GUARDRAIL (TYPE 31) TRANSITION SECTION TYPE 25

STANDARD PLAN C-25.32-00

SHEET 1 OF 2 SHEETS

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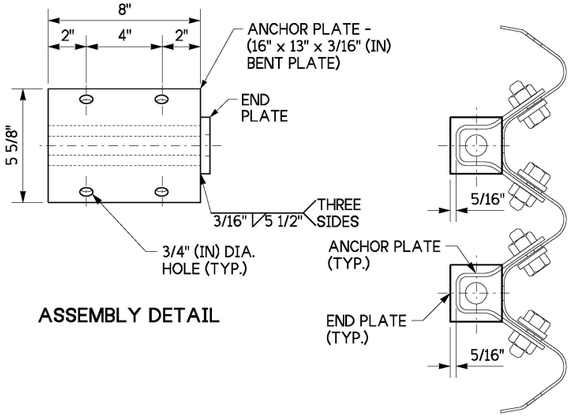
Mark A Dains Jul 29, 2024

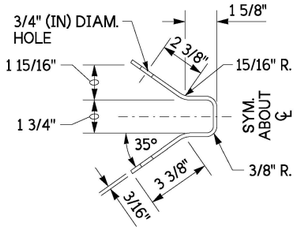
STATE DESIGN ENGINEER

Washington State Department of Transportation

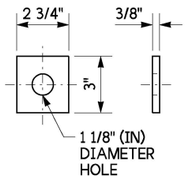


ASSEMBLY DETAIL

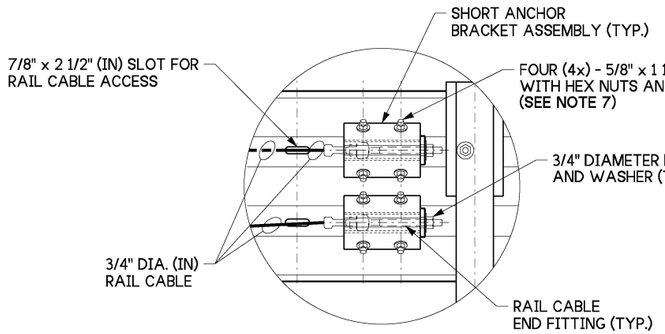
SHORT ANCHOR BRACKET ASSEMBLY DETAIL



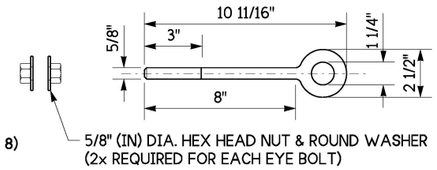
ANCHOR PLATE DETAIL
(SEE NOTE 6)
ASTM A36



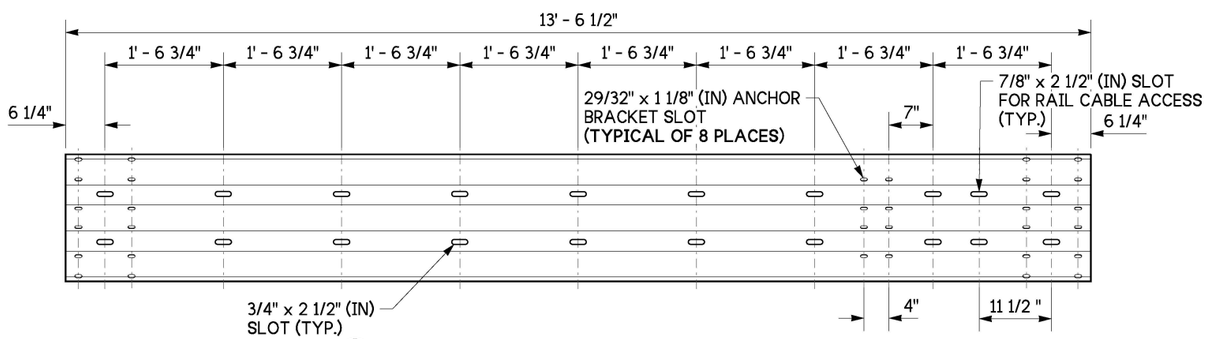
END PLATE DETAIL
ASTM A36



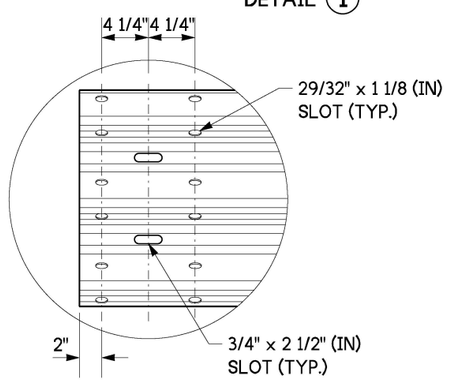
DETAIL (1)



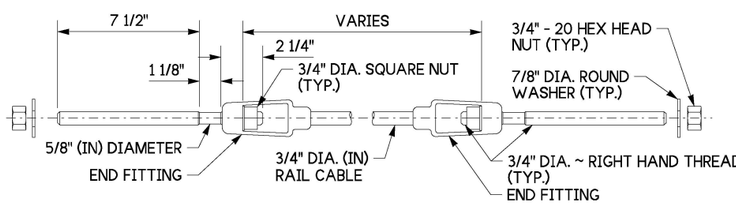
EYE BOLT DETAIL



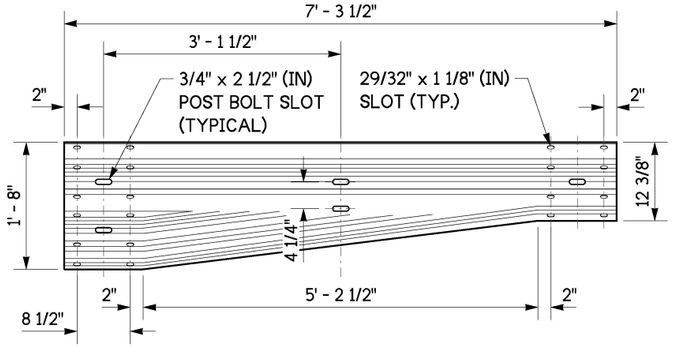
(1) 8 - SPACE THRIE BEAM GUARDRAIL WITH
ANCHOR HOLES & SLOTS (10 GAUGE) DETAIL



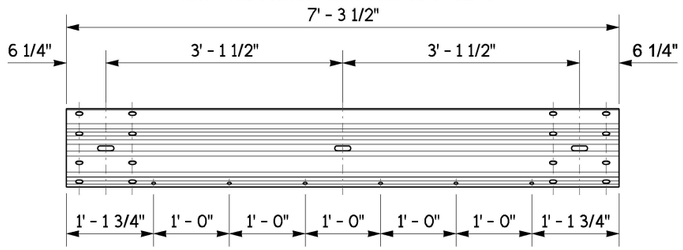
TYPICAL THRIE BEAM GUARDRAIL
SECTION END DETAIL



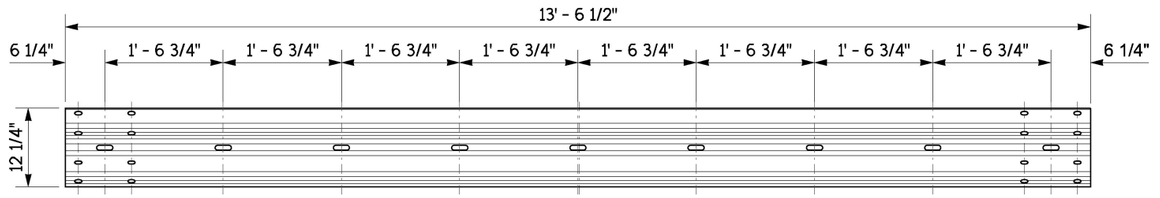
RAIL CABLE WITH END FITTINGS
DETAIL



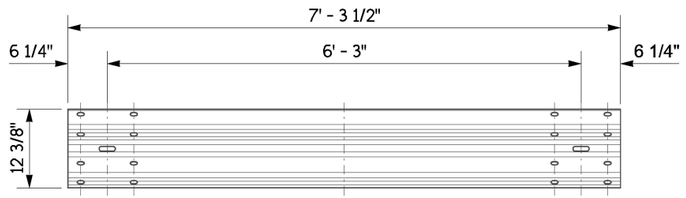
(2) REDUCER ELEMENT TYPE C (10 GAUGE)
DETAIL
(LEFT REDUCER SHOWN -
RIGHT REDUCER IS MIRROR IMAGE OF LEFT)



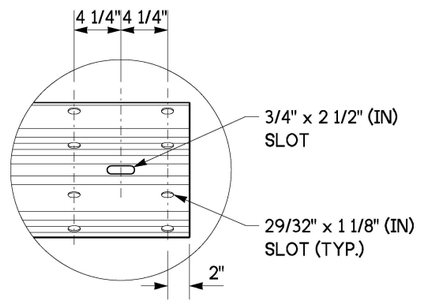
(3) W-BEAM SPACER GUARDRAIL WITH EYE BOLT HOLES
(10 GAUGE) DETAIL



(4) 8 - SPACE W-BEAM GUARDRAIL (10 GAUGE)
DETAIL



(5) W-BEAM SPACER GUARDRAIL (10 GAUGE) DETAIL



TYPICAL W-BEAM GUARDRAIL
SECTION END DETAIL

Jul 25, 2024

BEAM GUARDRAIL (TYPE 31)
TRANSITION SECTION TYPE 25

STANDARD PLAN C-25.32-00

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

Mark A Haines Jul 29, 2024

STATE DESIGN ENGINEER

Washington State
Department of Transportation