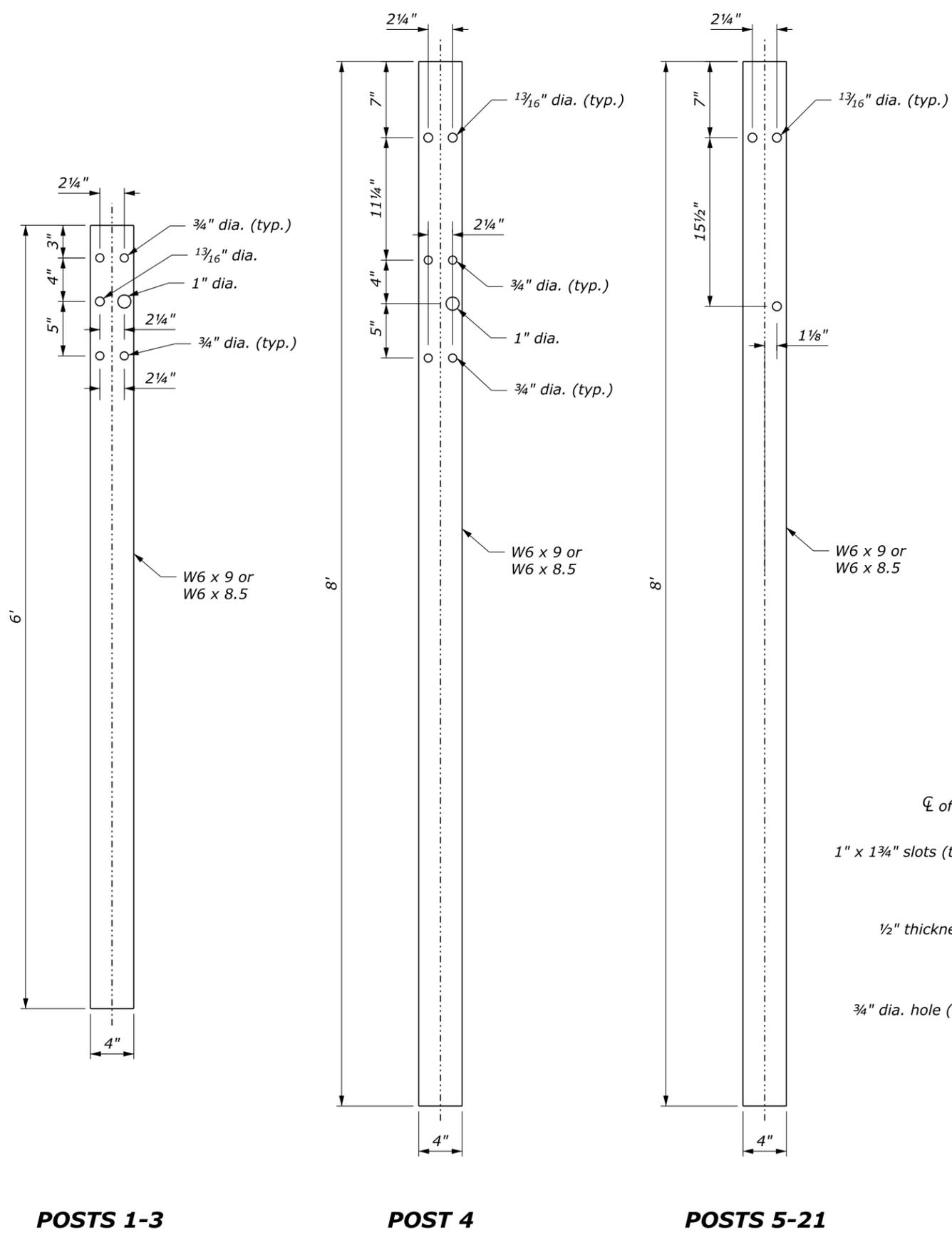
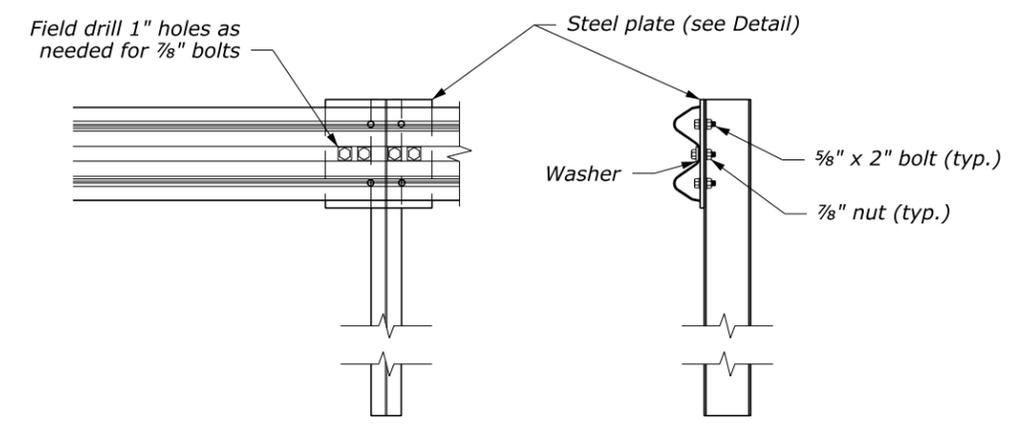




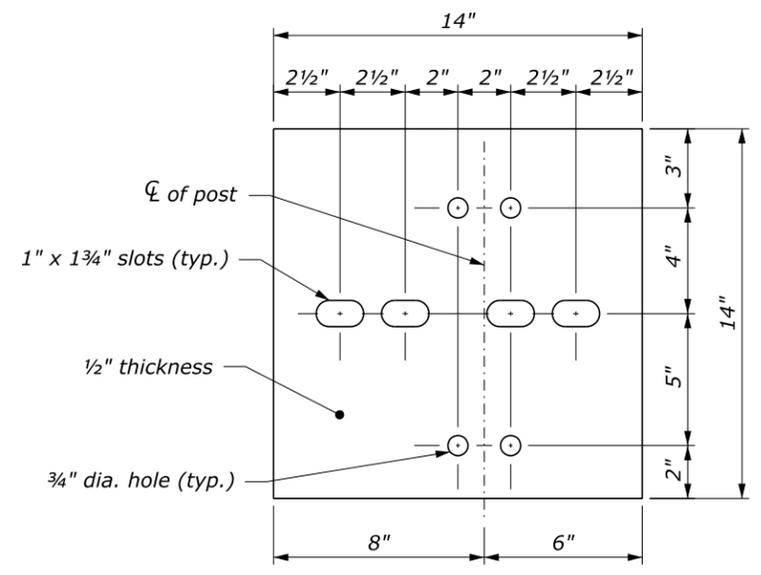
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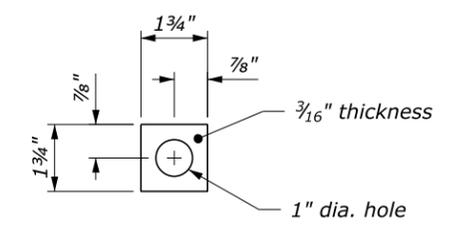
- NOTE:**
1. See Sheet 1 of 2 for terminal layout.
  2. Use zinc rich paint to coat field drilled holes.
  3. Anchor plate and hardware are typical on top rail of Posts 1 -3 and rub rail at Post 4.



**SPECIAL RAIL TO POST CONNECTION AT POSTS 1, 2, AND 3**



**GALVANIZED STEEL PLATE**



**GALVANIZED SQUARE WASHER**

**STEEL PLATE AND WASHER**  
See Note 3

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL <b>MGS W-BEAM GUARDRAIL          BACK SLOPE ANCHOR TERMINAL          TYPE MGS-BAT</b> Sheet 2 of 2	
DETAIL APPROVED FOR USE 04/2020 REVISED:	DETAIL C617-18

**NOTES TO THE DESIGNER**  
Last Updated: April 2020

## MGS W-Beam Guardrail, Back Slope Anchor Terminal Type MGS-BAT

### General Information

#### **Appropriate Applications.**

- In areas of cut sections, or where the road is transitioning from cut to fill, the back slope anchor terminates a W-beam guardrail installation by burying the end into a slope.

<b>Crash Test Criteria</b>	MASH
<b>Test Level</b>	TL-3
<b>FHWA Eligibility Letter</b>	None available
<b>TF 13 Designator</b>	Not posted
<b>Crash Test Report</b>	TTI report 608431-01-1&2

**Limitations.** Need a steep, natural backslope (1V:3H or steeper) to bury the terminal into, and a 1V:4H or flatter foreslope.

#### **Layout Guidance.**

- See AASHTO *Roadside Design Guide*, Section 8.3.6.1
- Carefully review the site, especially the foreslope, backslope, and ditch configuration. Verify onsite drainage needs can be met.



Photo from TTI Report 608431-01-1&2

### Applicable SCRs

- Section 563 (if weathering agent applied to galvanized elements)
- Section 617
- Section 710
- Section 725 (if weathering agent applied to galvanized elements)

### Typical Pay Item Used

- 61702-1700 Terminal section, type MGS-BAT [EA]

### Updates

February 2019

- New Detail drawing

April 2020

- Revised LON point, note 2, added rail height callouts, revised steel post callouts