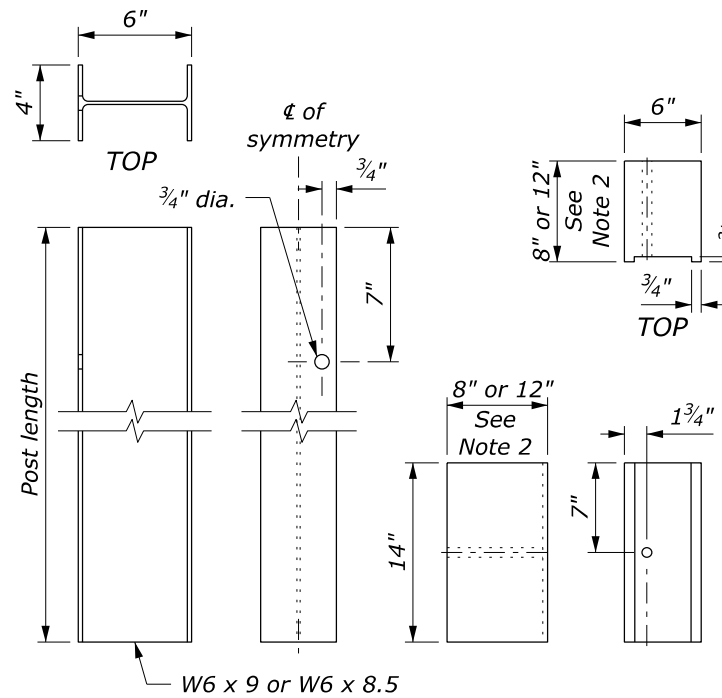
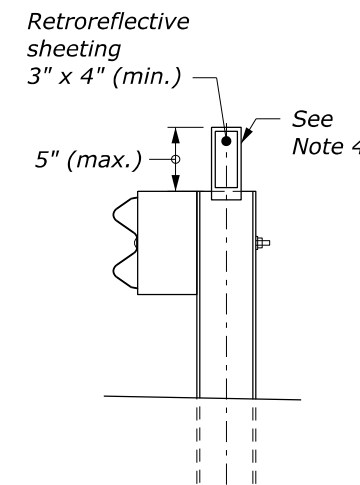


POST AND BLOCK DETAIL



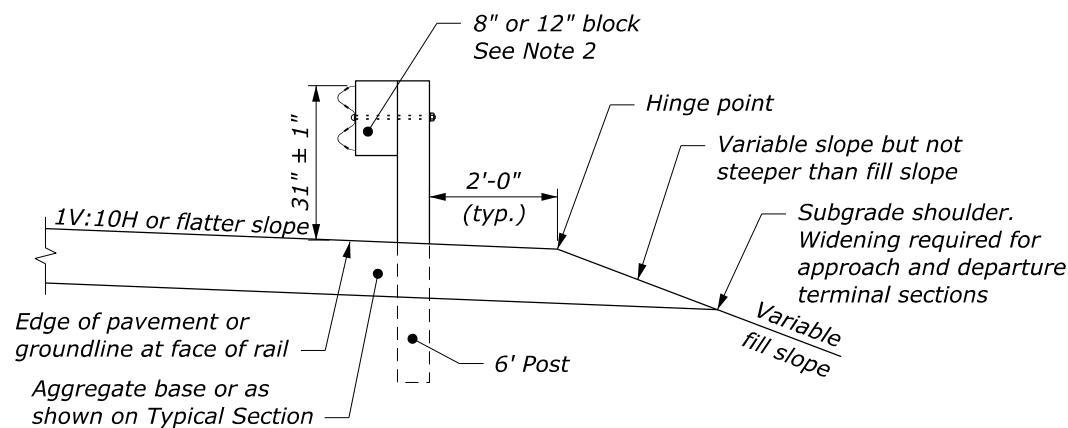
STRUCTURAL SHAPE POST



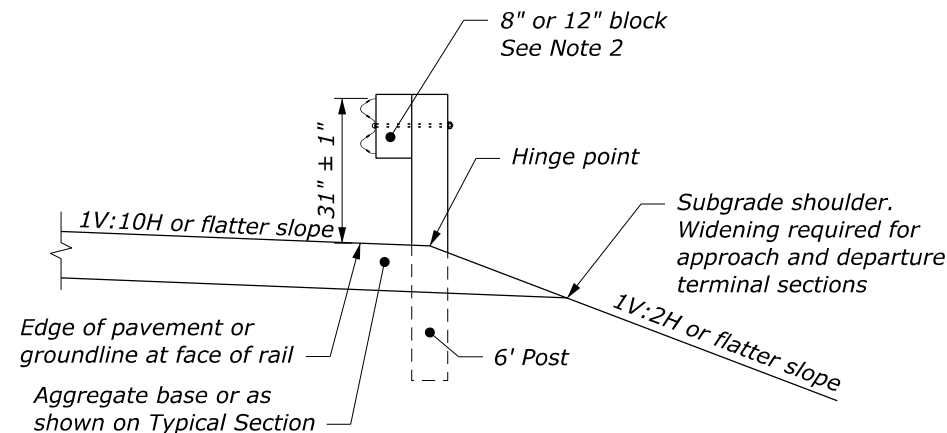
FLEXIBLE DELINEATOR GUARDRAIL MOUNT

NOTE:

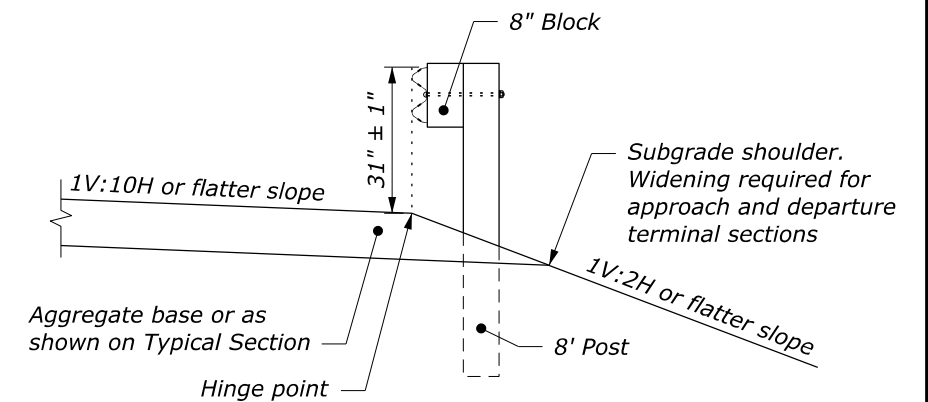
1. When encountering impenetrable material, one post may be omitted in locations where the typical guardrail cross section includes 2-feet (min.) between the back of the guardrail post and the hinge point. For all other locations, see Section 617 and Standard 617-13 or 617-37.
2. Size of block shown elsewhere on the plans. Modified block may be wood, plastic, or composite material. Use consistent material throughout the length of guardrail run.
3. Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance, and accepted manufacturing practices.
4. Install a flexible hinged delineator every fourth post. Fasten delineator to the web of the steel post using either an adhesive or mechanical means according to the manufacturer's recommendations.



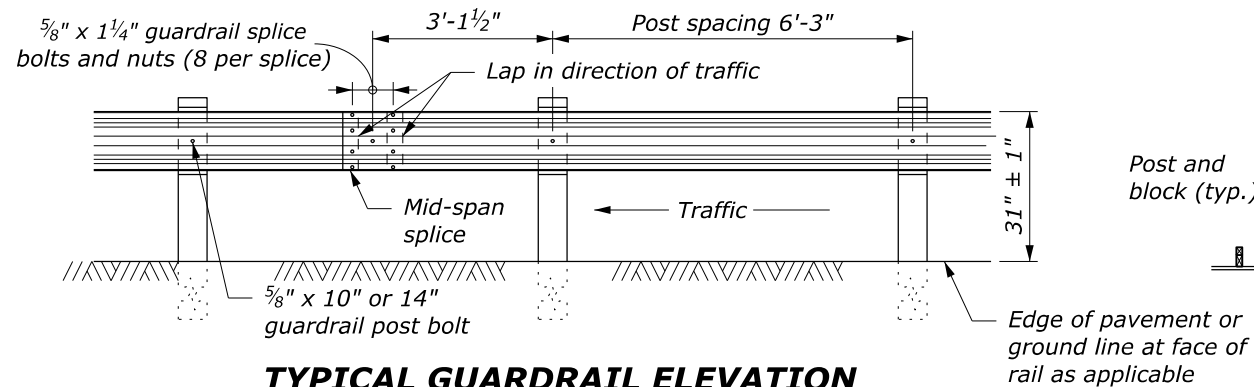
TYPICAL GUARDRAIL CROSS SECTION 6' POST, 8" OR 12" BLOCK



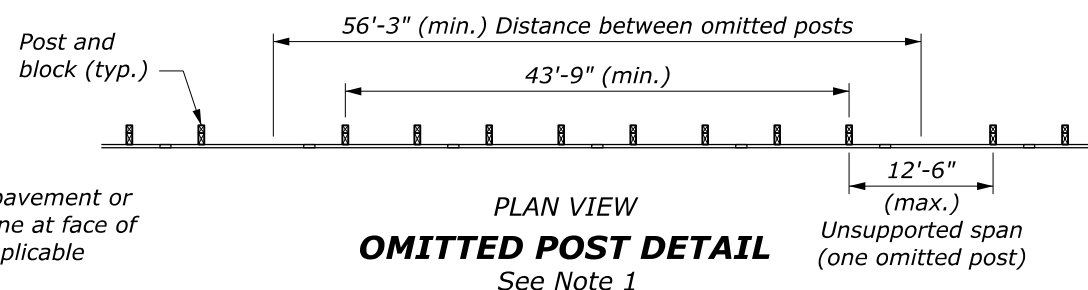
TYPICAL GUARDRAIL CROSS SECTION 6' POST CENTERED ON HINGE, 8" OR 12" BLOCK



TYPICAL GUARDRAIL CROSS SECTION 8' POST ON SLOPE, 8" BLOCK



TYPICAL GUARDRAIL ELEVATION



OMITTED POST DETAIL
See Note 1

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION OFFICE OF FEDERAL LANDS HIGHWAY	
FLH STANDARD	
MGS W-BEAM GUARDRAIL STEEL POSTS	
STANDARD APPROVED FOR USE 7/2022 REVISED:	STANDARD 617-32

Designer Notes: FLH Standard Drawing 617-32
Last Updated: June 2022

MGS W-Beam Guardrail, Steel Posts

General Information

Appropriate Applications.

- The Midwest Guardrail System (MGS) is a non-proprietary w-beam guardrail system that meets the current crash testing requirements. MGS is used when w-beam guardrail is selected for barrier installation.

Crash Test Criteria	MASH
Test Level	TL-3
FHWA Eligibility Letter	B-212, B-240, B-261
TF 13 Designator	SGR20a-b
Crash Test Report	Multiple MwRSF reports available at https://mwrsf.unl.edu/mgs.php Multiple TTI reports available at https://www.roadsidepooledfund.org/mash-implementation/search/

Limitations. The drawing shows the various options for guardrail near slopes. The preferred option is to use 6' post with 2' between the back of post and the slope hinge point.

Layout Guidance.

- See AASHTO *Roadside Design Guide*
- Use the FLH Barrier Length of Need Calculator available at <https://highways.dot.gov/federal-lands/safety/barrier-length-need>
- See the FLH *Midwest Guardrail System FAQ* document for more information.

Typical Pay Item Used

- 61701-4500 Guardrail system MGS, type 2, class A steel posts [LNFT] for galvanized steel
- 61701-5100 Guardrail system MGS, type 4, class B steel posts [LNFT] for weathering steel

Updates

February 2019

- New Detail drawing

June 2022

- Converted from CFL Detail to FLH Standard