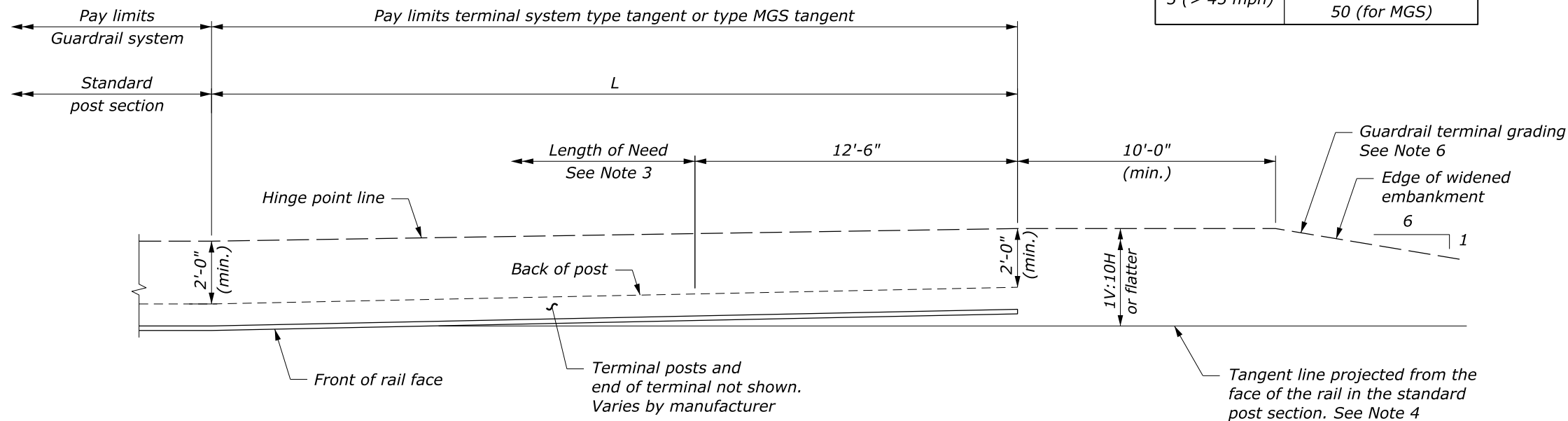


PLAN  
**PREFERRED GRADING**

TEST LEVEL	L (FT)
2 (≤ 45 mph)	25
3 (> 45 mph)	37.5 or 50 (for G4)
	50 (for MGS)



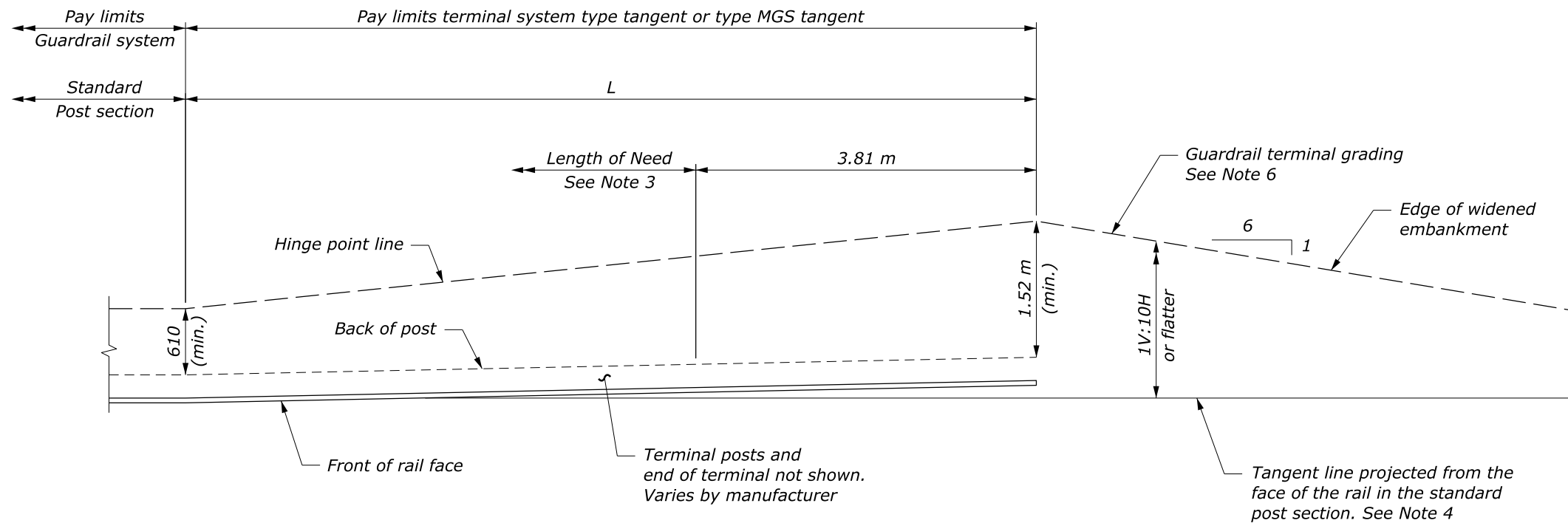
PLAN  
**ALTERNATIVE GRADING**

**NOTE:**

1. Install tangent terminal according to the manufacturer's recommendations. See manufacturer's drawings for other details.
2. Construct the terminal grading layout as shown in the staking notes or model. If no staking notes or model are provided, use the preferred grading layout or as directed to fit site constraints. If necessary because of site limitations, use the alternative grading layout.
3. For design purposes, the length of need is assumed to begin at post 3. Verify the length of need with the manufacturer for a specific product. Adjust grading as necessary to install the tangent terminal according to the manufacturer's recommendations.
4. Install terminal at a 1:25 taper or flatter to position the end farther from the edge of shoulder, or use a taper according to the manufacturer's recommendations.
5. Install a reflectorized object marker on the end of the terminal.

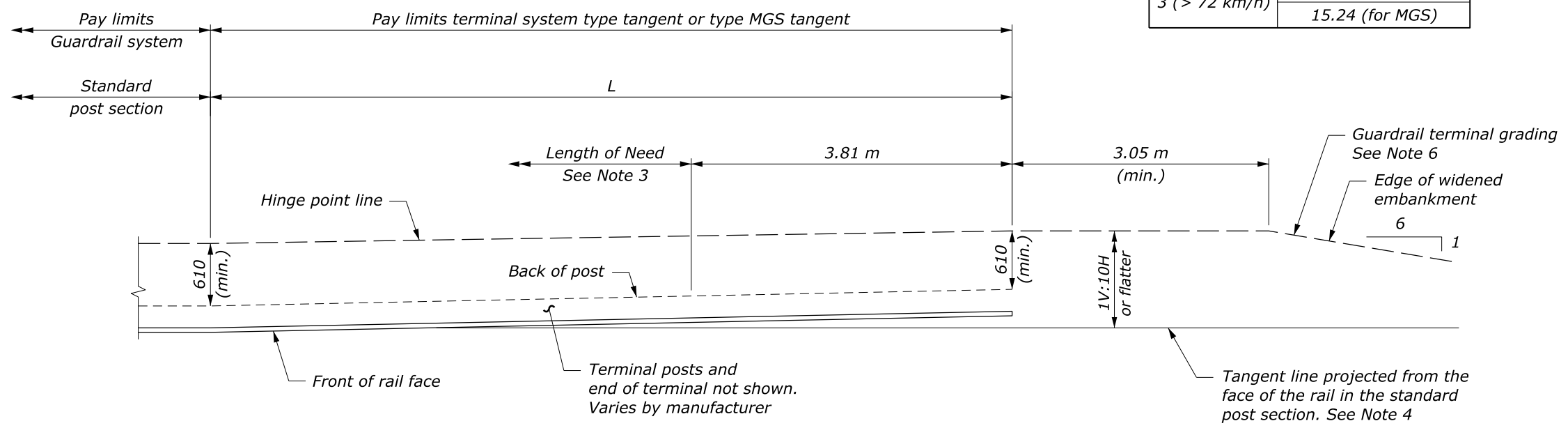
NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY	FLH STANDARD 617-20
<b>MGS AND G4 W-BEAM GUARDRAIL TYPE TANGENT TERMINAL AND GRADING</b>	SPECIFICATION FP-24
	APPROVED FOR USE 8/2025



PLAN  
**PREFERRED GRADING**

TEST LEVEL	L (m)
2 ( $\leq 72$ km/h)	7.62
3 ( $> 72$ km/h)	11.43 or 15.24 (for G4)
	15.24 (for MGS)



PLAN  
**ALTERNATIVE GRADING**

**NOTE:**

1. Install tangent terminal according to the manufacturer's recommendations. See manufacturer's drawings for other details.
2. Construct the terminal grading layout as shown in the staking notes or model. If no staking notes or model are provided, use the preferred grading layout or as directed to fit site constraints. If necessary because of site limitations, use the alternative grading layout.
3. For design purposes, the length of need is assumed to begin at post 3. Verify the length of need with the manufacturer for a specific product. Adjust grading as necessary to install the tangent terminal according to the manufacturer's recommendations.
4. Install terminal at a 1:25 taper or flatter to position the end farther from the edge of shoulder, or use a taper according to the manufacturer's recommendations.
5. Install a reflectorized object marker on the end of the terminal.

This drawing contains **Metric** units of measure. Dimensions without units are millimeters.

U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY	FLH STANDARD M617-20
<b>MGS AND G4 W-BEAM GUARDRAIL TYPE TANGENT TERMINAL AND GRADING</b>	SPECIFICATION FP-24
	APPROVED FOR USE 8/2025

NO SCALE

c:\pwwork\w\10588909\Std617-20.dgn [Std M617-20]  
7 August 2025 10:13 AM