NOTES:
1. Install tangent W-Beam guardrail terminal according to the manufacturer's recommendations. See manufacturer's drawings for other details.

2. Construct the terminal grading as shown in the staking notes or model, if no staking notes or model is provided, use the preferred grading layout as much as practical within 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 of a specific product. Adjust grading as necessary to install the tangent terminal according to the manufacturer's recommendations.

4. Install the terminal at a 1V/25H or flatter taper, to position the end further away from the edge of the shoulder, or use a taper according to the manufacturer's recommendations.

5. Install a reflectorized object marker on the impact head.

6. Construct a 1V/4H or flatter slope outside of the guardrail terminal grading extents where practical.

**PLAN**

**PREFERRED GRADING**

Pay limits
Guardrail system
Standard post section
Length of Need
Hinge point line
Back of post
Front of rail face
Pay limits terminal section type tangent or type MGS tangent
Length of Need
Hinge point line
Back of post
Front of rail face

**ALTERNATIVE GRADING**

Pay limits
Guardrail system
Standard post section
Length of Need
Hinge point line
Back of post
Front of rail face

<table>
<thead>
<tr>
<th>TEST LEVEL</th>
<th>(FT)</th>
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</thead>
<tbody>
<tr>
<td>2 (≤ 45 mph)</td>
<td>25</td>
</tr>
<tr>
<td>3 (&gt; 45 mph)</td>
<td>37.5 or 50 (for G4)</td>
</tr>
<tr>
<td>50 (for MGS)</td>
<td></td>
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