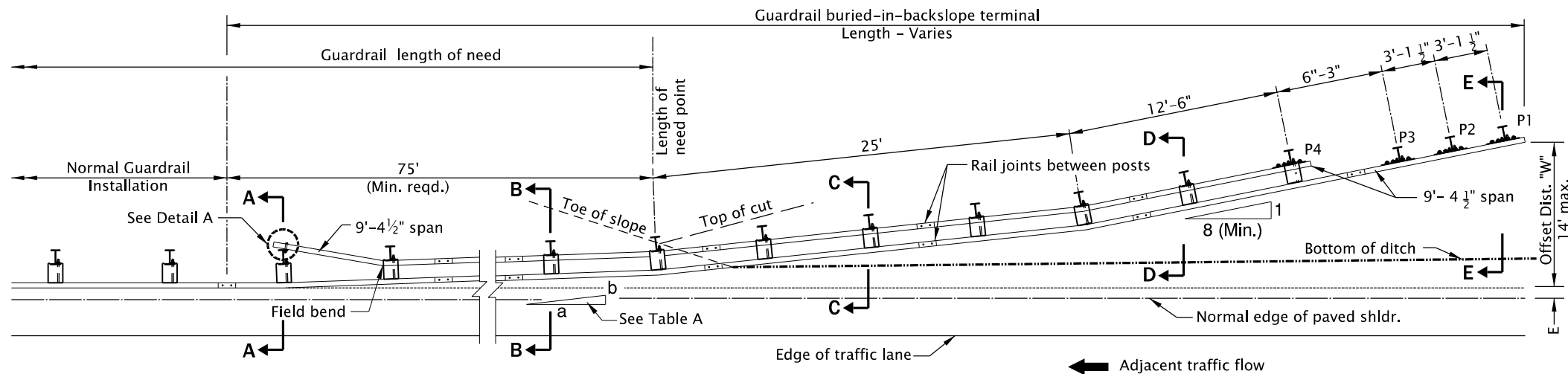
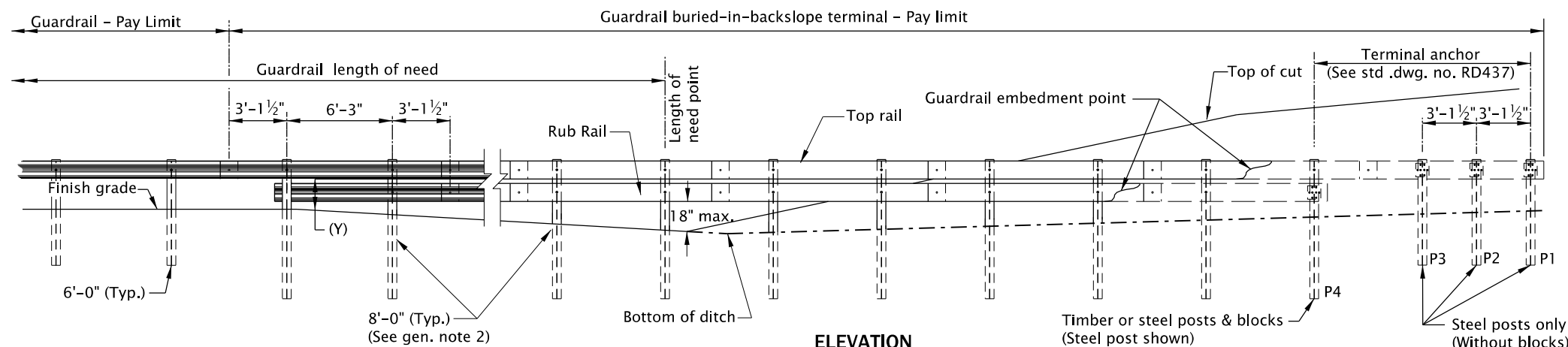


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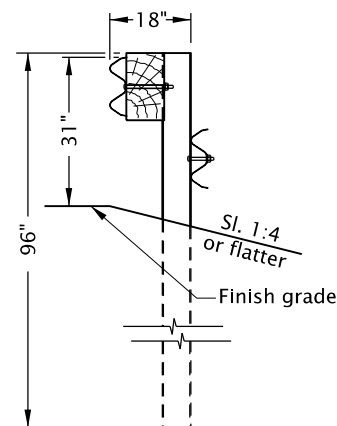
RD436.dgn



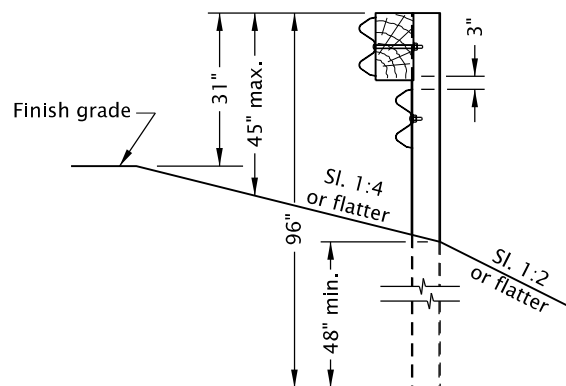
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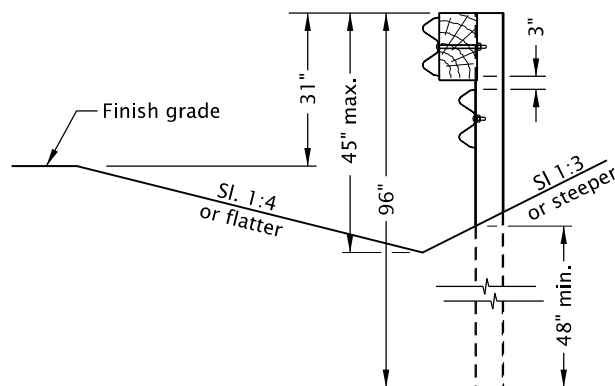
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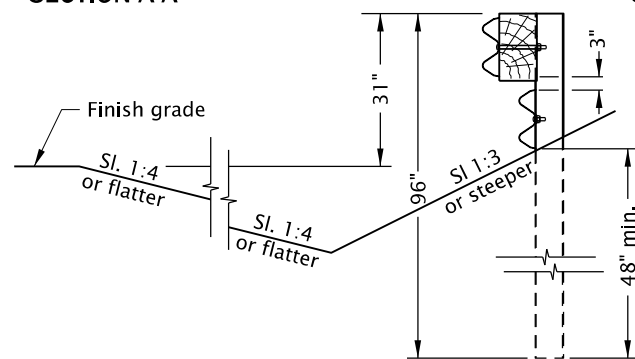
SECTION A-A



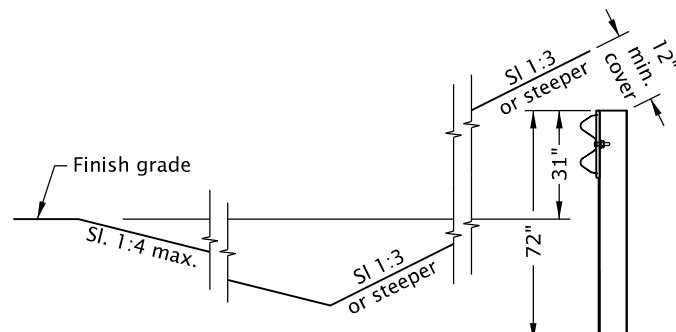
SECTION B-B



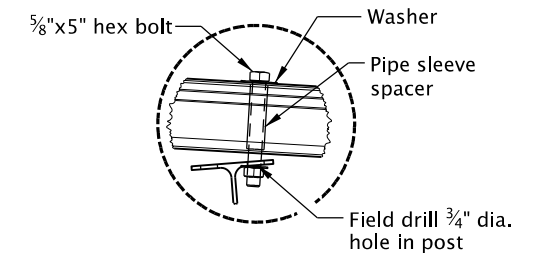
SECTION C-C



SECTION D-D



SECTION E-E



DETAIL "A"

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- See Std. Dwg. RD437 for Buried-in-backslope terminal anchorage parts. See appropriate guardrail standard drawing(s) for additional details not shown.
- On two way, two lane highways, both ends of guardrail runs shall be provided with a flared or non-flared terminal from ODOT's QPL if not buried, as detailed on plans.
- Eight foot long guardrail post required when connected to rub rail.
- The flare rate of the guardrail may be increased after crossing the ditch bottom to shorten the length of the terminal.
- Trailing ends (freeways, multilane and similar one-way facilities) not exposed to opposing traffic:
 - Guardrail terminals, use a Downstream Anchor Terminal (DAT) (Std. Dwg. RD438), Type B end piece and do not flare.
 - At bridge ends, omit Transition Guardrail & Type 3 guardrail and substitute the normal required guardrail.
- All bolts except adjustment bolts shall be drawn tight on rails and components on initial installation.
 - Final tightness check on rail and component bolts and retightening as required to be done 30 days after initial installation.
- Bend the downstream end of the bottom rail to the backside of the post and bolt to post.
- Field drilled steel posts are allowed for bottom rail element. Use zinc rich paint to coat field drilled holes in posts or rail elements. Galvanizing required for plate and hardware.
- Hold the top guardrail element constant with the typical barrier installation. Go up stream 1 post and add a bottom rail element under the standard guardrail element when the bottom of the top guardrail element exceeds 18 inch, at any point of the slope, point (Y) elevation view. Slope both elements down to maintain a maximum height of 45 inch in front of the toe of slope if the top of installation exceeds 45 inch from the ground, at any point in the installation.
- Use in established slopes. Do not build a mound to use Buried-in-backslope terminal. Do not use the Buried-in-backslope terminal in locations where the backslope is flatter than 3:1, and there is no ditch or a narrow shallow ditch and the toe of slope is within 20 ft of the travel lane.

TABLE A

POSTED SPEED (MPH)	FLARE RATE a : b
70	15:1 or Flatter
60	14:1 or Flatter
55	12:1 or Flatter
50	11:1 or Flatter
45	10:1 or Flatter
40 or less	9:1 or Flatter

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS
MIDWEST GUARDRAIL SYSTEM
BURIED IN BACKSLOPE (BIB)
TERMINAL

2024

DATE	REVISION	DESCRIPTION

CALC. BOOK NO. - - -	N/A - - -	SDR DATE- 19-JAN-2024 -	RD436
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Effective Date: June 1, 2026 – November 30, 2026