NOT STEEPER THAN 10H : 1V
1' - 0" (ft) LONG BUTTON HEAD BOLT WITH 7/32" (IN)
OVAL GRIP, CUT WASHER, AND HEX NUT FOR TIMBER POST
OR 5/8" (IN) x 2" (IN) LONG BUTTON HEAD BOLT WITH 7/32" (IN)
OVAL GRIP, CUT WASHER, AND HEX NUT FOR STEEL POST

SECTION A

NO BOLT REQUIRED
2'-3"

NOT STEEPER THAN 4H : 1V
1'-6" MAX.
1' - 0" (ft) LONG BUTTON HEAD BOLT WITH 7/32" (IN)
OVAL GRIP, CUT WASHER, AND HEX NUT FOR TIMBER POST

LOCATION OF POST (WITHOUT BLOCK) =
W/ 6" x 9 STEEL POST ONLY

SECTION B

LOCATION OF POSTS & BLOCKS (TYP.)
(W/ BLOCK ON BOTTOM OF DITCH)

SECTION C (SEE NOTE 3)

NOT STEEPER THAN 4H : 1V
1'-6" MIN. COVER

LOCATION OF POST (WITHOUT BLOCK) =
W/ 6" x 9 STEEL POST ONLY

FLARE RATE TABLE

RATE (FT) POSTED SPEED (MPH)
15 : 1 70
14 : 1 60
12 : 1 55
11 : 1 50
10 : 1 45
9 : 1 40 OR LESS

NOTES
1. Posts installed on shoulder slopes steeper than 10H : 1V shall be 8' (ft) long.
2. The flare rate of the guardrail may be increased after crossing the ditch bottom to shorten the length of the terminal.
3. Determine the height of the W-Beam at the Anchor (G) by first calculating the perpendicular offset distance (D) from the edge of shoulder (S) to the Anchor (on station). Multiply that distance by 0.1, then subtract the product from the elevation of the same point (S) on the edge of shoulder used to obtain the offset distance (at the same station). Add Beam Guardrail design height (27" (in)) to that remainder for a sum that equals the elevation of the top of the W-Beam at the Anchor.
   Refer to SECTION "C":
   Elevation g = (Elevation g - D (0.1)) + 27
4. Timber or steel post. Steel post shown.

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

Barry, Ed
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STATE DESIGN ENGINEER
Washington State Department of Transportation

STANDARD PLAN C-22.14-03