USE WHEN DITCH FORESLOPE IS 4:1 OR FLATTER
USE WHEN DITCH FORESLOPE IS 10:1 OR FLATTER
1. Use the buried-in-backslope guardrail terminal where a guardrail is reasonably close to the point where the barrier is introduced or terminated. The buried-in-backslope guardrail terminal eliminates the possibility of an end-on impact with the guardrail. The installation of a guardrail reduces the likelihood of intrusion behind the barrier. The buried-in-backslope terminal shown is a level 3 terminal and is a level 1 terminal when shown on sheet 1.

2. The sheet 1 design can be used whenever the ditch fore slope is 4:1 or flatter. The sheet 2 design can be used when the ditch fore slope is 1:1 or steeper.

3. The hazard may be the slope embankment or other roadway hazard. Provide the following terminal lengths between the hazard and the guardrail.

   A. 2:1 backslope - 75' or more to hazard
   B. 2:1 backslope - provide length of need calculated by formula
   C. 1:1 or steeper backslope - anchor as soon as practical

4. Drill four 3/4" holes. The guardrail bolts can be flatheaded or flanged. If posts 1 can be extended 12" deep while keeping the top of the W-beam rail parallel to the roadway or ditch elevation.

5. Space posts 6'-3" apart. The W-beam and railing sections are to be installed at the following heights:

   - 4'-8" above the shoulder elevation (on sheet 2 design)
   - 5'-0" above the shoulder elevation (on sheet 3 design)
   - 6'-3" above the shoulder elevation (on sheet 1 design)

6. Install the guardrail terminal at the following heights:

   - 48" W-beam guardrail posts
   - 1:1 or steeper backslope - 75' or more to hazard
   - 1:1 or steeper backslope - provide length of need calculated by formula
   - 2:1 backslope - 75' or more to hazard
   - 2:1 backslope - 75' or more to hazard
   - 3:1 backslope - 75' or more to hazard

7. Posts 3 through 8 can be shortened if the guardrail height is greater than 48". The guardrail height is calculated by formula.

8. When applicable, field bend and attach the guardrail to the back of the last 96" post.

9. Paint drilled holes with the appropriate zinc-rich paint that meets WS-C-21035.

10. Drawings not to scale.