

Slopes as directed.

*** See general note 8

* Configuration varies, see sections on Std. Dwg. RD317



Slopes as directed.

* 0 when used with paved end slope.

For elliptical pipe increase X and Y dimensions by percent of ellipse.

1. All dimensions are subject to necessary tolerances to meet manufacturer's requirements for plate arrangements.
2. See Std. Dwgs. RD300 or RD304 for installation details.
3. All embankment slopes to be warped where required to provide end projections as shown.
4. Minimum elevation of top of riprap at inlet and outlet is one diameter (D) or one foot higher than design headwater or tailwater elevation respectively whichever is greater.
5. Slope protection required for hydraulic installations. See Table A on Std. Dwg. RD317.
6. $\frac{H}{15}$ and $\frac{H_1}{15}$ only applicable for non-hydraulic applications.
7. Open ends of pipes normally require a site specific design, and may require special treatment (Slope ends, culvert embankment protection, paved end slopes, safety end sections, or other measures).
See special details or Standard Drawings as called for on plans.
8. Cross-sectional dimensions may vary with different materials.
9. Full bevel cuts are not recommended for multiple radius shaped pipes.
10. For pipes with skew no.'s 50, 70, 110 or 130, omit the top step (Y).
(For skew diagram, see Std. Dwg. RD319).
11. See Std. Dwg. RD317 for culvert embankment protection and riprap pads (When reqd.).

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.

OREGON STANDARD DRAWINGS

2024

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