The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

Material Notes:
- Provide Class B riprap in accordance with Item 432, "Riprap." Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete. Synthetic fibers are for Contractor's information only. Quantities are based on the minimum amount on 0.26 in./ft. minimum for the threaded anchor rods shown. When requested, substitute reinforcing steel in the riprap concrete unless otherwise noted. The anchor rods shown are always required.

General Notes:
- Precast safety end treatment for reinforced concrete pipe may be used for TYPE II end treatment as specified in Item 467, "Safety End Treatment." Refer to PSET-SC or PSET-SP standard sheets for details of square safety end treatment, or PSET-RC or PSET-RP standard sheets for details of round safety end treatments not shown.
- For precast units with integrally cast riprap, substitute reinforcing steel in the amount on 0.26 in./ft. minimum for the threaded anchor rods shown. When required, submit scaled engineering drawings for approval prior to construction. Shop drawings will not be required. Refer to PSET-SC or PSET-SP standard sheets for details of square safety end treatments not shown.
- Riprap quantities shown are for Contractor's information only. Quantities are based on the minimum unit lengths shown on the Precast Safety End Treatment (SET) standard sheets.

Quantities shown are for one end of one reinforced concrete pipe culvert. For multiple pipe culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only. Quantities are based on the minimum unit lengths shown on the Precast Safety End Treatment (SET) standard sheets.

Riprap placed beyond the limits shown will be paid as concrete riprap in accordance with Item 432, "Riprap." When riprap is cast integrally with the precast safety end treatment, this dimension is 1'-6" minimum.

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2. thread anchor rod with two nuts and two washers. Anchorage all components in accordance with Item 443, "Galvanizing." Repair any anchor by drilling or masonry type drilling equipment. If holes are drilled, patch spalls in the inside face of the wall to the 1'-6" from the holes.

3. Provide riprap toe wall when dimension is shown elsewhere in the plans or when field conditions require a toe wall.

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