Standard Drawing Guidance (do not show on plans):
- Designed for AASHTO LRFD.
- Not designed for AASHTO LFD.
- Not crash tested.
- Comparable to TL-2 (NCHRP 350) deck-mounted (top) post and rail system Texas T01, Texas Type 6.

Unshipped LFD analysis shows:
- 0' Fill
  - Guardrail (K-Beam): Design Requirements for TL-2 6'-0" post spacing max Single Rail
    Grade 50 post and plate
  - Three-Beam: Design Requirements for TL-2 6'-0" post spacing max Single Rail
    Grade 50 post and plate
- 2' Fill
  - Guardrail (K-Beam): Design Requirements for TL-2 4'-0" post spacing max Double Nested
    Grade 50 post and plate
  - Three-Beam: Design Requirements for TL-2 4'-0" post spacing max Double Nested
    Grade 50 post and plate

Use this detail when required to connect rail post to culvert slab greater than 9" thick or where culvert walls interfere with bolting through slab.

This sheet shows details for connecting guardrail post to culvert slab only.

Work with districts on type of guardrail required.

General Notes:
- Furnishing and installing posts and guardrail on culvert as shown on this sheet will be considered completely covered by the contract unit price for Bridge Guardrail Bridge Type 101, Bridge Type 103, and Bridge Type 104.
- Furnishing and installing guardrail and post on culvert shall be in accordance with Sec 605 except as shown.
- Guardrail posts shall be seated on an elastomeric pad having the same dimensions as the post base plate and 1/16" thickness. Such pads may be any elastomeric material, plain or fibered, having a hardness (Durometer) of 50 or above, as certified by the manufacturer. The pads may be any elastomeric material, plain or fibered, having a hardness (Durometer) of 50 or above, as certified by the manufacturer. Additional pads or half pads may be substituted for the A307 anchor bolts.
- Grade A321 threaded rods with 2 hex nuts and washers may be substituted for the A307 anchor bolts.
- Holes for anchor bolts may be drilled into the culvert.
- Fabrication of structural steel shall be in accordance with Sec 606 except as shown.
- Furnishing and installing posts and guardrail on culvert shall be in accordance with Sec 606 except as shown.
- Use this detail when required to connect rail post to culvert slab only.

Note: This drawing is not to scale. Follow dimensions...

Checked: [Signature]

Notations:
- Details A
- Details B
- Section A-A
- Projection
- Top of Box Culvert
- 1/2" Base Plate

Dimensions:
- 10 1/2" x 10 1/2" Base Plate
- 10 1/2" x 10 1/2" x 1/4" Bottom Plate

Legend:
- 1/2" A-307 Bolts
- 2 3/4" A-307 Bolts
- 1 1/8" O.D. Holes for X - X at Post shown.