This page contains diagrams and text related to bridge mounted clearance sign assembly. The diagrams illustrate the detailed construction of the clearance signs, including anchor bolt assembly details, base plate details, and upper strut details. The text provides instructions and specifications for the components, such as anchor bolts, base plates, and strut details. The diagrams are labeled with dimensions and notes to ensure proper installation. The text and diagrams are specific to the Texas Department of Transportation (TxDOT) guidelines and standards.
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.

SECTION THRU T1F, T2P, C2P, T1W, C1W, T66 AND C66 RAIL CURB

FOR T1F, T2P, C2P, T1W, C1W, T66 AND C66 RAIL TYPES

UPPER STRUT DETAIL FOR (TYPE S MOUNT)

1. \( \frac{3}{8} \) Dia x 2" Hexagon socket button head cap screws (ASTM A325) with hex nuts. Attach hex nuts to L 3 x 3 x \( \frac{3}{8} \) by tack welding in two places. Threads must have Class 8.8 fit tolerance in accordance ASME B1.1. Six screws required.

2. At the Contractor's option fully threaded adhesive anchors may be used instead of cast-in-place anchor bolts. Expansion anchors are not allowed. Provide adhesive anchors that are \( \frac{3}{8} \) Dia x 2" fully threaded rods with one (1) gasketed steel washer (ASTM F486) and one regular lock washer placed under heavy hex nut (ASTM A563). Embed fully threaded rods using a Type III. Class C, D, E, F anchor adhesive. Adhesive anchor embedment depth is 8-10" from anchor plate to surface of concrete slab. Provide an "L" in each hole for edge distance and spacing must be accounted for. Submit signed and sealed calculations in the manufacturer's published literature showing the proposed anchor adhesive's ability to develop this load to the Engineer for approval prior to use. Anchor installation, including hole sizes, drilling, and sheet metal, must be in accordance with TxDOT's "Raising." Required (ASTM A36) 3 1/2" Dia Anchor bolts.

3. Top of rail curb "Typ". Top of concrete slab "Typ".

4. 2 1/2" Dia x 8" Anchor bolts. See "Cast-In-Place Anchor Bolt Option." For desired slab gaps topped with a course surface treatment and ACP overlay. Adjust length to accommodate edge of slab to back of rail for specific project conditions and to help plumb the vertical face of clearance sign.

5. Top of concrete slab "Typ." For desired slab gaps topped with a course surface treatment and ACP overlay.

6. 2" Dia x 2" Hexagon socket button head cap screws (ASTM A574) with hex nuts. Attach hex nuts to L 3 x 3 x \( \frac{3}{8} \) by tack welding in two places. Threads must have Class 8.8 fit tolerance in accordance ASME B1.1. Six screws required.

7. At the Contractor's option fully threaded adhesive anchors may be used instead of cast-in-place anchor bolts. Expansion anchors are not allowed. Provide adhesive anchors that are \( \frac{3}{8} \) Dia x 2" fully threaded rods with one (1) gasketed steel washer (ASTM F486) and one regular lock washer placed under heavy hex nut (ASTM A563). Embed fully threaded rods using a Type III. Class C, D, E, F anchor adhesive. Adhesive anchor embedment depth is 8-10" from anchor plate to surface of concrete slab. Provide an "L" in each hole for edge distance and spacing must be accounted for. Submit signed and sealed calculations in the manufacturer's published literature showing the proposed anchor adhesive's ability to develop this load to the Engineer for approval prior to use. Anchor installation, including hole sizes, drilling, and sheet metal, must be in accordance with TxDOT's "Raising." Required (ASTM A36) 3 1/2" Dia Anchor bolts.