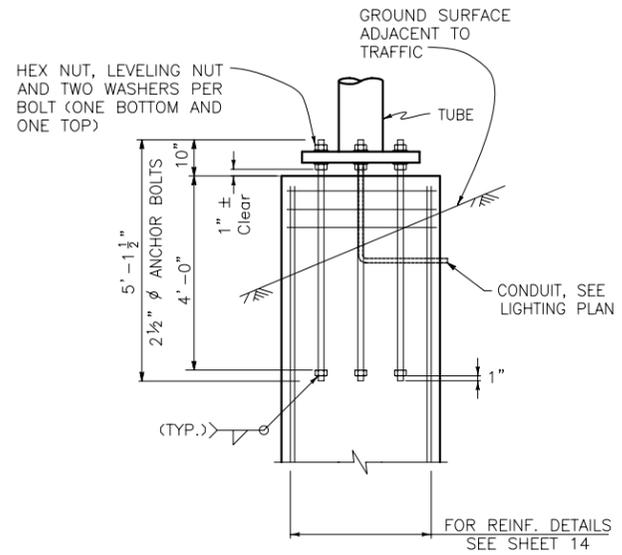
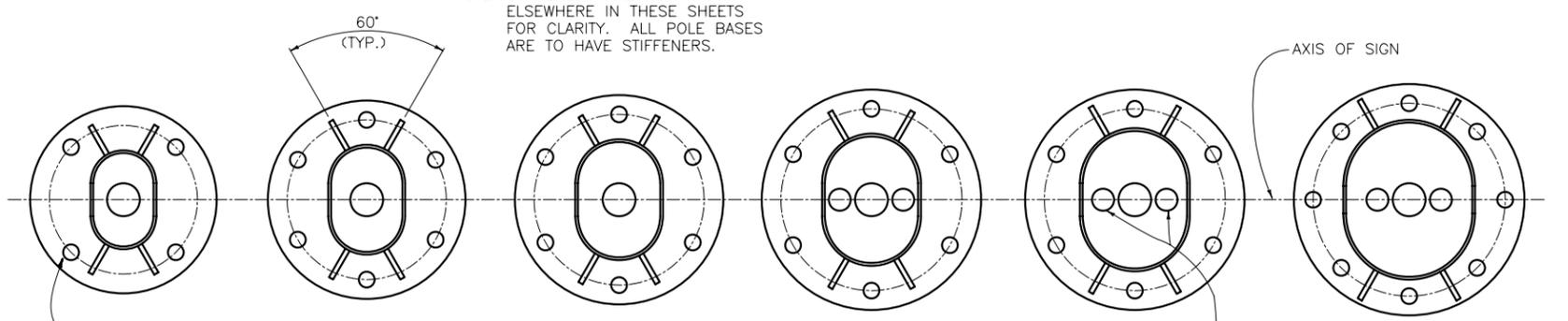


-BASE PLATE/ANCHOR BOLT DETAILS-

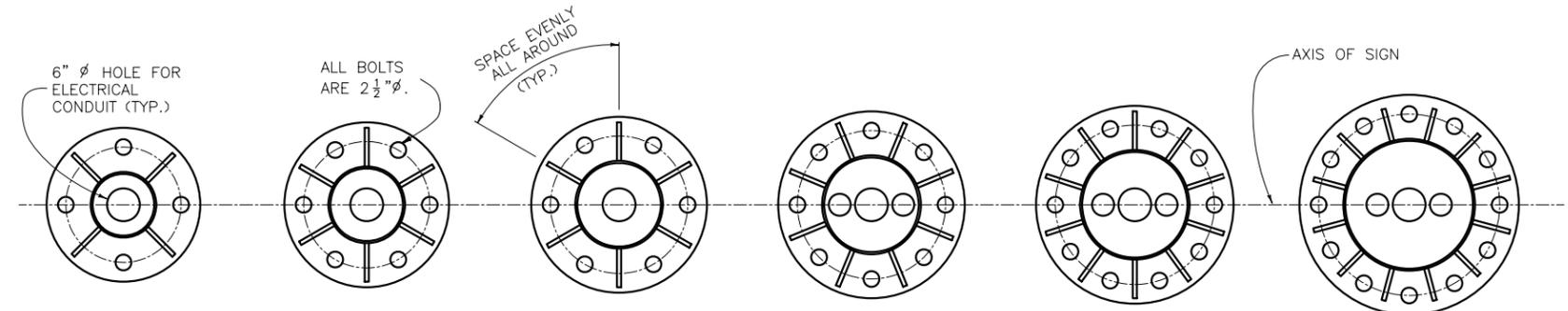


**ANCHOR BOLT DETAIL**

NOTE: STIFFENERS ARE NOT SHOWN ELSEWHERE IN THESE SHEETS FOR CLARITY. ALL POLE BASES ARE TO HAVE STIFFENERS.



**BASE PLATE DETAILS FOR SIGN BRIDGES**



**BASE PLATE DETAILS FOR CANTILEVERS**

**12.75" TUBE      14" TUBE      16" TUBE      18" TUBE      20" TUBE      24" TUBE**

**CANTILEVERS**

| PIPE OD (IN.) | SPLIT (IN.) | BASE PL SIZE (DIAM. X THICK.) (IN.) | BOLT CIRCLE (IN.) | # OF ANCHOR BOLTS | # OF STIFF. |
|---------------|-------------|-------------------------------------|-------------------|-------------------|-------------|
| 12.75         | -           | 28" x 2.5"                          | 21"               | 4                 | 4           |
| 14            | -           | 30" x 2.5"                          | 23"               | 6                 | 6           |
| 16            | -           | 32" x 2.5"                          | 25"               | 6                 | 6           |
| 18            | -           | 34" x 2.75"                         | 27"               | 8                 | 8           |
| 20            | -           | 36" x 3.0"                          | 29"               | 10                | 10          |
| 24            | -           | 40" x 3.0"                          | 33"               | 12                | 12          |

**SIGN BRIDGES**

| PIPE OD (IN.) | SPLIT (IN.) | BASE PL SIZE (DIAM. X THICK.) (IN.) | BOLT CIRCLE (IN.) | # OF ANCHOR BOLTS | # OF STIFF. |
|---------------|-------------|-------------------------------------|-------------------|-------------------|-------------|
| 12.75         | 5           | 34" x 2.5"                          | 27"               | 4                 | 4           |
| 14            | 5           | 36" x 2.5"                          | 29"               | 6                 | 4           |
| 16            | 5           | 38" x 2.5"                          | 31"               | 6                 | 4           |
| 18            | 5           | 40" x 2.75"                         | 33"               | 6                 | 4           |
| 20            | 5           | 40" x 3.0"                          | 33"               | 6                 | 4           |
| 24            | 5           | 42" x 3.0"                          | 35"               | 8                 | 4           |

**NOTES**

1. THREAD UPPER 10" AND GALVANIZE UPPER 1'-3" OF THE ANCHOR BOLTS.
2. ANCHOR BOLTS SHALL BE SET WITH A STEEL TEMPLATE UNTIL THE CONCRETE HAS CURED AT LEAST TWO DAYS.
3. THERE SHALL BE NO GROUT PAD INSTALLED ON TOP OF THE EXISTING FOUNDATIONS.
4. THE ANCHOR BOLTS SHALL BE TIGHTENED USING THE TURN-OF-NUT METHOD. THE BOLTS SHALL FIRST BE TIGHTENED TO SNUG TIGHT, WHICH IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE UPPER AND LOWER NUTS ARE IN FIRM CONTACT WITH THE BASE PLATE. WITH THE MAST ARM FREE TO DEFLECT, THE UPPER AND LOWER NUTS SHALL EACH THEN BE ROTATED AN ADDITIONAL 1/2 TURN (30° ± 5°) USING A SLUGGING WRENCH.

|  |       |                        |   |  |   |
|--|-------|------------------------|---|--|---|
| <b>Computer File Information</b>                                 |       | <b>Sheet Revisions</b> | <b>Colorado Department of Transportation</b>  | <b>MONOTUBE OVERHEAD SIGNS</b>                   | <b>STANDARD PLAN NO.</b>                                  |
| Creation Date: 07-04-06      Initials: JSV                       |       | Date:      Comments    | 4201 East Arkansas Avenue<br>Denver, Colorado 80222<br>Phone: (303) 757-9543<br>Fax: (303) 757-9820 | Issued By: Traffic Engineering Unit July 4, 2006 | S-614-50  |
| Last Modification Date: 07-04-06      Initials: RD               |       |                        |   |  | Sheet No. 7 of 14   |
| Full Path: www.dot.state.co.us/DesignSupport/                    | (R-X) |                        |   |  |   |
| Drawing File Name: S614500714.dwg                                | (R-X) |                        |   |  |   |
| CAD Ver.: ACAD 2004      Scale: Not to Scale      Units: English | (R-X) |                        |   |  | <b>Safety &amp; Traffic Engineering Branch</b> <b>KCM</b> |