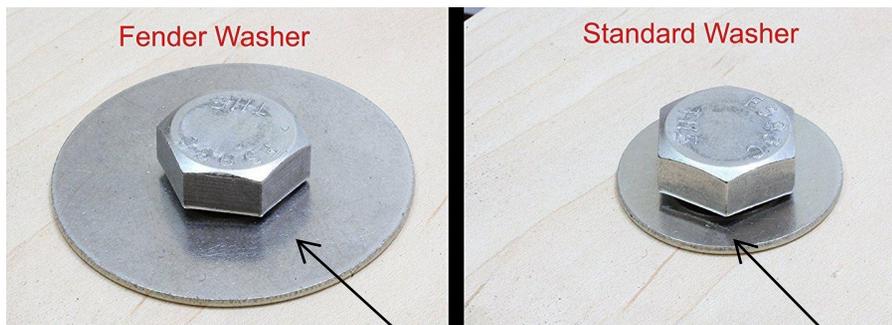


FOR SIGNS NOT USING SIGN STIFFENERS / SUPPORTING CHANNELS

**GENERAL NOTE:**

FOR SIGNS USING SIGN STIFFENERS / SUPPORTING CHANNELS (SIGN PAVELS OVER 36" WIDE), REFER TO ILLINOIS DEPARTMENT OF TRANSPORTATION HIGHWAY STANDARD 720001 FOR SIGN HARDWARE DETAILS, BUT USING THE BOLT SPECIFICATIONS LISTED ABOVE.

FOR SIGNS MOUNTED ON LIGHT POLES OR SIGNAL POLES AND POSTS, SIGN STIFFENERS SHALL BE REQUIRED REGARDLESS OF SIGN SIZE OR DIMENSIONS.



O.D.: 1 - 1/2 INCH (1.5 INCH)

O.D.: 7/8 INCH

Date	Revisions
9/8/22	Detail creation
9/13/23	Revised



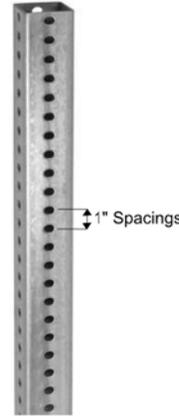
### Telescoping Sign Post

The post shall be a square tube formed of 12 gauge steel according to the standard specification for cold rolled carbon steel sheets commercial quality ASTM A 1008 (A 1008M). The post shall be formed to size and, if necessary, shall be welded in such a manner that weld or flash shall not interfere with telescoping. Holes  $7/16 \pm 1/64$  in. ( $11 \pm 0.4$  mm) will be spaced on 1 in. (25 mm) centers on at least two opposite sides. The holes shall align to accept a  $3/8$  in. (10 mm) bolt through the post at any location. The post shall have a smooth galvanized finish applied either before or after forming. For all other regulations refer to Section 1093 of the latest version of Illinois Standard Specifications for Bridge and Road Construction.

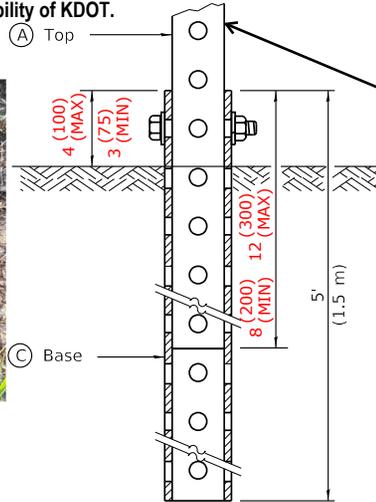
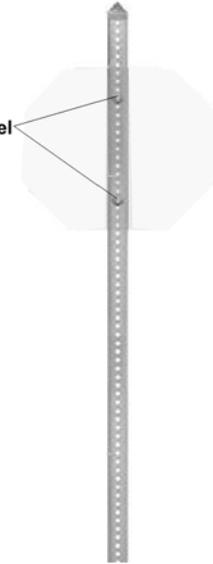
### Sign Bases (Soil / Ground Mount)

Shall follow IDOT Standard specifications for 728.04(b) for ground mount bases for telescoping steel sign supports. Base shall be embedded 5 feet into ground with no more than 4 inches exposed above ground level. Telescoping Steel Sign support shall extend a minimum of 8 inches into the base but no further than 12 inches into the base. Dimensions of Sign base shall be as detailed below and shall use  $3/8$  inch stainless steel hex head bolts and lock nut with flat standard washers on either end. Details provided on page for reference only, detail may follow updates to IDOT Highway standard 728001, Contractor to verify with Engineer if differences are identified. Contractor shall seek approval from KDOT before signs become responsibility of KDOT.

12 Gauge Telescoping Galvanized Square Post,  
2"W x 2"D x min. 10'



Stainless steel bolts and washers used for fastening extruded aluminum sign panels to supports, shall be according to ASTM A 276, Type 316. Stainless steel nuts shall be according to ASTM A 240 (A 240M), Type 316.



TOP SECTION SHALL EXTEND A MINIMUM OF 8 INCHES INTO BASE BUT NO MORE THAN 12 INCHES

(A)	2 x 2 x var. (51 x 51 var.)
(C)	2 1/4 x 2 1/4 x 60 (57 x 57 x 1500)

Kane County Division of Transportation	
Specifications Telescoping Sign Post & Soil Bases	

### GROUND MOUNT DETAIL

Date	Revisions
07/17	Sign Post Base Hardware



Specifications  
Telescoping Sign Post  
&  
Soil Bases

### Sign Bases for Concrete & Asphalt Installation:

This detail closely follows Illinois Department of Transportation (IDOT) standard 728001 but with some modifications. Unless otherwise noted, this detail shall be followed on any Kane County Division of Transportation (KDOT) project where signs are installed along a County highway.

The key differences is in the serviceability of pavement mounts through establishing a void in the pavement and installing a channel / conduit that better allows for a sign base to be replaced in the future. The sign base has been lengthened to that similar to a ground / dirt mounted sign to make up for the loss of strength a monolithic pavement mount might traditionally have.

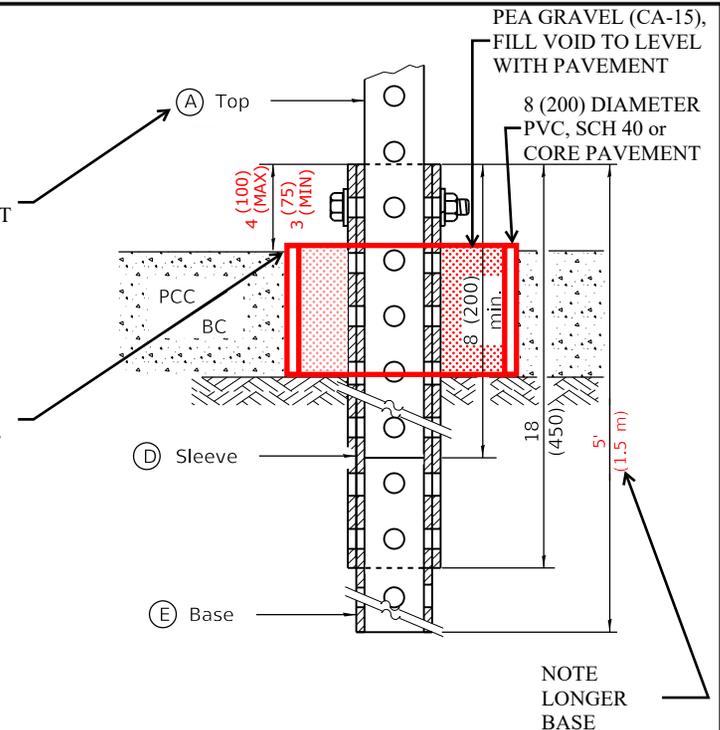
All materials, equipment, labor, or other associated costs required with delivering the work detailed shall be considered included the the unit price of the BASE FOR TELESCOPING STEEL SIGN SUPPORT being installed.

#### Installation Instructions:

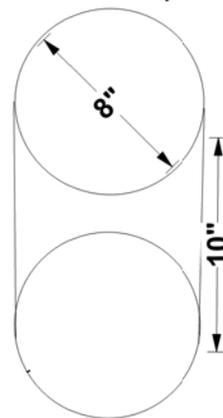
1. Pavement core or install SCH 40 PVC at 8" diameter providing a minimal 10 inch depth or as deeper to meet bottom of pavement (meeting aggregate base or dirt base)
2. "Sleeve" and "Base" shall be installed with proper orientation and be level to support optimal mounting of sign post "Top".
3. CA-15 or as KDOT approved aggregate shall be installed around the "Sleeve" and "Base" but inside core / PVC cavity. Aggregate to be level with surrounding pavement grade.
4. "TOP" shall be inserted a minimum of 8 inches but no more than 12 inches into the "Sleeve" and "Base". 3/8 inch stainless steel hex head bolts and lock nut with flat washers shall be used on either end. Contractor shall seek approval from KDOT before signs become responsibility of KDOT.

TOP SECTION SHALL EXTEND A MINIMUM OF 8 INCHES INTO SLEEVE AND BASE BUT NO MORE THAN 12 INCHES

PVC IS LEVEL WITH SURROUNDING PAVEMENT OR LESS THAN 1/4 INCH ABOVE (CORE / PVC, 10 INCH MINIMUM DEPTH)



Core Diameter/ Depth



NOTE LONGER BASE

MINIMAL DEPTH OF CORE OR PVC INSERT. CORE / PVC DEPTH MUST BE AS DEEP PAVEMENT SECTION

#### PAVEMENT MOUNT DETAIL

(A)	2 x 2 x var. (51 x 51 var.)
(D)	2½ x 2½ x 18 (64 x 64 x 450)
(E)	2¼ x 2¼ x 60 (57 x 57 x 1500)

Kane County Division of Transportation	
Specifications Concrete & Asphalt Bases	

Date	Revisions
07/17	Sign Bases Concrete & Asphalt



Specifications  
Concrete  
&  
Asphalt Bases