SPAN SIGN STRUCTURE NOTES

1. Design according to FDOT Structures Manual. Alternate Designs are not allowed.
2. Submit shop drawings for all work. Include:
   a. Field verification of all upright heights.
   b. Foundation elevations necessary to ensure minimum vertical clearances as per traffic plans.
   c. Anchor bolt orientation with respect to centerline of truss and the direction of traffic.
   d. The method to be used to provide the required parabolic camber (See Camber Diagram).
3. Shop Fabrication, Assembly, Handling and Shipping
   a. Do not begin fabrication before receiving shop drawing approval.
   c. Shop assemble entire structure after galvanizing and prior to shipment.
   d. If necessary, assemble and secure components for shipment.
4. Sign Structure Materials:
   a. Upright and Chords (Steel Pipe) API 5L-X42 (42 ksi yield) or ASTM 4500, Grade B.
   b. Steel Angle(s) ASTM A 709, Grade 36.
   c. Steel Plates: ASTM A 709, Grade 36.
   d. Weld Metal E70XX.
   e. bolts: ASTM A490 or ASTM A490 Type 1 (long) with single, self-locking nuts or regular nuts with a galvanized, locking TWI "Pulnut.
   f. Alternate Splice bolts: ASTM A490, Type 1 (loose critical)
   g. Anchor bolts: ASTM F1554, Grade 55 with ASTM A490 Grade A heavy-duty double nuts.
   h. Install/Remove as per manufacturer’s instructions.
   i. Bolt hole diameters: equal to the bolt diameter plus 1/16”.
   j. Anchor bolt hole diameters: equal to the bolt diameter plus 1/16”.
7. Foundation Materials:
   a. Reinforcing Steel ASTM A615, Grade 60.
   b. Concrete: Class IV, minimum 5,5 ksi compressive strength at 28-days for all environmental classifications.
   c. Grout Minimum: 5.5 ksi compressive strength at 28-days. Conform to Specification Section 934 using procedures outlined in Section 649-6.
8. Construct the Sign Structure Foundation in accordance with FDOT Specification Section 455.
9. If a grout pad is not installed, place wire cloth screen vertically between the base plates and top of foundation, wrap horizontally around the base plates with a 3" min lap. Use standard grout, plain weave, 2x2 mesh, galvanized steel wire cloth with 0.062" dia. wire.
10. Attach the screen to the base plates with stainless steel self-tapping 5/16" screws with stainless steel washers spaced at 9" centers.
11. Prior to cranking record the as-built anchor locations and provide to the Engineer.
12. Provide a parabolic camber with the maximum upward deflection as shown on the Camber Diagram.
13. Locate Chord splice a minimum of 3 truss panel lengths apart. Chord splice may be either the Standard splice or the Alternate splice but not both on this structure. Upright splice are not allowed.
14. Install sign panels as shown on the Elevation drawing.
15. Payment All costs associated with the Sign Structure, Sign Panels, Foundation and all incidental items will be paid for under the Sign Structure pay item.
See Plug Detail (Typ.)

Similar to Detail H

Truss Web Angles (Typ.)

$\frac{1}{2}$ Upright Pipe

$\frac{1}{2}$ Upper Panel Chord

$\frac{1}{2}$ $\pm$ Span (Even Number of Panels)

$\frac{1}{2}$ $\pm$ Span (Odd Number of Panels)

VIEW F-F

VIEW G-G Similar

Out-of-Plane Members not shown for clarity

Span Length, $A'$, comprised of $0'$ Equal Panels

$\frac{1}{2}$ The Number Of Panels For An Even Number Of Panels

$\frac{1}{2}$ The Number Of Panels Rounded Down To The Closest Whole Number For An Odd Number Of Panels

SECTION E-E

FRONT OF TRUSS ELEVATION

(Truss Chord and attached Angles not shown for clarity)

2 $\frac{1}{4}$" x 3/4" x 3/4" Bolts (Typ.)

$\frac{1}{2}$" x 3/8" x 3/8" (For attachment of Luminaire Support)

$\frac{1}{2}$" U-Bolt w/ Self-Locking Nuts (Typ.)

$\frac{1}{2}$" U-Bolt

4" Aluminum Zee Sign Hanger

$\frac{1}{2}$" x 3/8" x 3/8" (For attachment of Luminaire Support)

Attach Luminaire to angle with

4 $\frac{1}{2}$" x 3/8" bolts at each location where required

Provide this Detail for Black Mounted Signs at all Sign Hanger Locations

NOTE
See Index No. 11300.

NOTE
Abbreviation
OD ~ Outside Diameter
DETAIL H

Truss Web Angles (Typ.)

Do Not Provide Returns On Fillet Welds Weld completely around (Typ.)

DETAIL K

Centroids of Angles and Chords Intersect (Typ.)

DETAIL I

4 3/8" for 1 1/2" Ø Bolts
3 5/8" for 1 1/2" Ø Bolts
3 1/8" for 1 1/2" Ø Bolts

DETAIL J

See Upright-Truss Connection Detail

DETAIL M

Plate is skewed to plane of view

SECTION N-N

SECTION O-O

PLUG DETAIL

(Each end of Back Truss Chord)

NOTE:
Abbreviation
OD = Outside Diameter