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 height, width, and length.
   b. Foundation elevations necessary to assure minimum vertical clearances as per traffic plans.
   c. Anchor bolt orientation with respect to centerline of truss and the direction of traffic.
   d. 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 the entire structure after galvanizing and prior to shipment.
   d. It is necessary, disassemble and secure components for shipment.
4) Sign Structure Materials:
   a. Upright and Chord (Steel Pipe): API - 5L X42 (42 ksi yield) or ASTM A500, Grade B.
   b. Steel Angles: ASTM A 709, Grades 36.
   c. Steel Plates: ASTM A 36, Grade 36.
   d. Weld Metal: E70XX.
   e. Bolts: ASTM A325, Type 1, (Industrial Specification Section 700) with single, self-locking nuts.
   f. Anchor Bolts: ASTM F2255, Grade 55, with ASTM A563 Grade 4 Heavy-Hex double nuts.
   g. Insulate nuts per manufacturer's instructions.
   h. Bolt hole diameters equal to the bolt diameter plus 1/32".
   i. Anchor bolt hole diameters equal to the bolt diameter plus 1/32".
6) Sign Panels: Aluminum. See Elevation drawing for sizes and locations.
7) Foundation Materials:
   a. Reinforcing Steel: ASTM A615, Grade 60.
   b. Concrete Class IV (Graded) (min. 4 ksi compressive strength at 28-days for all environmental classifications.
8) Construct the Sign Structure foundation in accordance with FDOT Specification Section 455.
9) Prior to erection, record the as-built anchor locations and provide to the Engineer.
10) Provide a parabolic camber with the maximum upward deflection as shown on the Camber Diagram.
11) Locate Chord spacing a minimum of 3 truss panel lengths apart. Chord spacing may be either the Standard space or the Alternate space but not both on this structure. Upright spacings are not allowed.
12) Install sign panels as shown on the Elevation drawing.
13) 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.
14) Verify CSI, access tubes without interference with anchor bolt installation before excavating the shaft. When CSI, access tubes locations conflict with anchor bolt locations, move the access tubes location two inches along the inner circumference of the reinforcing cage. Notify the Engineer before excavating the shaft if the CSI, access tube locations cannot be moved out of conflict with anchor bolt locations.

NOTE: See Plans for Span Sign Structure Data Table.
**2010 FDOT Design Standards**

**SPAN SIGN STRUCTURE**

**Front of Truss Elevation**

- 2 3 1/2" x 3 1/2" x 1 1/2"
- 2 1 1/2" Ø Bolts (Typ.)
- 1/8" Ø U-Bolt w/ Self-Locking Nuts (Typ.)

**Back-Side Sign Mounting Detail**

- 4" Aluminum Zee Sign Hanger
- 3/4" x 3/4" x 1/4" (For attachment of Luminaire Support)
- Provide this detail for back mounted signs or at sign hanger locations

**Note:** See Index No. 11300.