CANTILEVER SIGN STRUCTURE NOTES

1. Design according to FDOT Structures Manual. Alternative 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.
3. Plate chord spacing is a minimum of 2.5 times panel length except for 10x10 panel from upright is the closest panel in which a split splice may be used. See plans for Cantilever Sign Structure Data Table. Upright splices are not allowed.
4. Shop Fabrication, Assembly, Handling and Shipping:
   a. Do not开始 fabrication before receiving shop drawing approval.
5. Shop assemble the entire structure after galvanizing and prior to shipment.
6. If necessary, disassemble and secure components for shipment.
7. Sign Structure Material:
   a. Upright and Chords (Steel): A36 (yield) or ASTM A500, Grade B.
   b. Steel Angle: ASTM A 709, Grade 36.
   c. Steel Plate: ASTM A 709, Grade 36.
   d. Weld Metal: E70XX.
   e. Bolts: ASTM A325 or ASTM A327 Type 1 (usable with self-locking nuts or regular nuts with a galvanized, locking PRL "Pnut."
   f. Anchor Bolt: ASTM F1554, Grade 55 with ASTM A4713 Grade 6 heavy hex double nuts.
   g. Installation per manufacturer’s instructions.
6. Bolt hole diameters equal to the bolt diameter plus 1/8”.
   i. Anchor bolt hole diameters equal to the bolt diameter plus 1/8”.
7. Galvanization: Nuts, bolts and washers: ASTM F1366 (also steels/iron: ASTM A423
8. Sign Panels: Aluminum, See Elevation drawing for sizes and locations.
9. Foundation Materials:
   a. Reinforcing Steel: ASTM A415, Grade 60.
   b. Concrete: Class IV, minimum 5,500 psi compressive strength at 28-days for all environmental classifications.
10. Construct the Sign Structure foundation in accordance with FDOT Specification Section 455.
11. If a group pad is not installed, place wire cloth screen vertically between the base plate and top of foundation, wrap horizontally around the base plate with a 3⁄4" min. lap, use standard grade, plain weave, 24-gauge, galvanized wire cloth with 0.065" dia. wire.
12. Attach screen to the base plates with stainless steel self-tapping 1/4" screws with stainless steel washers spaced at 9" centers.
13. Prior to erection, center the pre-built anchor locations are provided to the Engineer.
14. After placement of the upright and prior to installation of the truss, adjust the leveling nuts beneath the base plate to achieve the back rake shown in the Cantilever Diagram.
15. Place backfill above the footing prior to installation of the sign panels. Do not remove or reduce in height without prior approval of the Engineer.
16. Install sign panels as shown on the Elevation drawing.
17. 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.

NOTE: See Plans for Cantilever Sign Structure Data Table.
FRONT OF TRUSS ELEVATION

(Back Truss Chord and attached Angles not shown for clarity)