GENERAL NOTES:

1. Verify Column lengths in the field prior to fabrication.

2. Shop drawings:
   A. Column/Sign Posts: Sign Support Shop drawings are not required when fabricated in accordance with this Index and support posts do not exceed the length shown in the plans by more than 2'-0".
   B. Sign Panels: Horizontally panel splices are allowed at interior wind beams for sign panels with a depth (>D) greater than 10 feet. Shop drawings required if panel splice details.
   C. When shop drawings are required; obtain approval prior to fabrication.

3. Materials:
   A. Sign Panel Mounting Materials:
      a. Aluminum Bars, and Extruded Shapes: ASTM B221, Alloy 6061-T6 or Alloy 6351-T5
      b. Aluminum Structural Shapes: ASTM 6508, Alloy 6061-T6
   B. Sign Support Structure Materials:
      a. Steel Plates and Structural Shapes: ASTM A36 or ASTM A709, Grade 36
      b. Steel Weld Metal: E70XX
      c. Brass Stamping: ASTM B86
   C. Aluminum Bolts, Nuts and Washers:
      a. Flat Head Machine Screws (bolts): ASTM F 488, Alloy 2024-T4
      b. Hex Nuts: ASTM F487, Alloy 6061-T6 or 6262-T9
      c. Washers: ASTM B221, Alloy F705-T6
   D. Stainless Steel Bolts, Nuts and Washers Alloy Group 2, Condition A, may be substituted for the Aluminum bolts and screws as follows:
      a. Bolts: ASTM F319, CW1 or SN1
      b. Nuts: ASTM F359
   E. High Strength (M.S) Steel Bolts, Nuts and Washers:
      a. Galvanized Hex Head Bolts: ASTM A325, Type 1
      b. Galvanized Nuts: ASTM A563 Hex, Grade DH
      c. Galvanized Washers: ASTM F430
   F. Concrete: Class I
   G. Reinforcing Bars or Welded Wire Reinforcement (WWR): Specification Section 515

4. Coatings:
   A. Aluminum Fasteners: Anodic coating (0.0002 inches min.) and chromate sealed
   B. Galvanize High Strength Steel Bolts Nuts and Washers: ASTM F2329
   C. Galvanize all other steel items (excluding stainless steel) Hot-dip ASTM A123
   D. Treat damaged galvanizing in accordance with Specification Section 562

5. Fabrication:
   A. All Base Connections and Stub Column materials are steel unless otherwise specified.
   B. Drill or sub-punch and ream holes in Fuse Plates and Hinge Plates
   C. Weld Base Plate to Stub & Post or if using the Alternate Connection Detail weld Base Plate and Stiffeners to Post and Stub (Sheet 2)
   D. Hot dip galvanize after fabrication. Remove all drips, runs or beads on baseplate within washer contact areas

6. Construction:
   A. Install the Sign Structure foundation in accordance with Specification Section 455. Orient Stub Post according to direction of traffic (Sheet 2)
   B. Tighten all high strength bolts except Base Bolts in accordance with Specification Section 700
   C. Assemble Post to Stub with Base Bolts and three flat washers per bolt (Base Connection Detail Sheet 2)
MULTI-COLUMN SIGN ASSEMBLY

FOUNDATION NOTES:
1. At the Contractor's option, the #4 tie bars at 12" o.c. may be replaced by D10 Spiral Wire @ 6" pitch, with three flat turns at the top and one flat turn at the bottom in accordance with Specification Section 415.
2. The Contractor may use Welded Wire Reinforcement (WWR) for foundation reinforcing.

INSTRUCTIONS NOTES:
1. Assembly of Base Instructions:
   A. Place one washer on each Base Bolt between the Bottom Base Plate and the head of high strength Base Bolt; place the next washer between the Bottom Base Plate and the Bolt Keeper Plate; add the Top Base Plate section and place the third washer between the Top Base Plate and the Nut.
   B. Shim as required to plumb column. Provide 2-0.0149" thick (28 gauge) and 2-0.0329" thick (21 gauge) brass shims per column.
2. H.S. Base Bolt Lashing Instructions:
   A. Tighten Base Bolts to the maximum possible with a 12" wrench and tighten Base Bolts one turn at the top and one flat turn at the bottom in accordance with Specification Section 415.
   B. Shim as required to plumb column. Provide 2-0.0149" thick (28 gauge) and 2-0.0329" thick (21 gauge) brass shims per column.
   C. Ensure proper torque to tighten bolts to the torque prescribed in the Table. Over tightened Base Bolts will not be permitted.
   D. Burr threads at junction with nut to prevent nut loosening. Treat damaged galvanizing.

ALTERNATIVE BASE CONNECTION DATA

INDEX NO. 11200
SHEET 2 of 3

DESCRIPTION: MULTI-COLUMN GROUND SIGN

REV 05/16

COLF COURSE OR EXIT

REV

PLAN

SIDE ELEVATION

BASE CONNECTION

SECTION A-A

BOLT KEEPER PLATE DETAIL

SECTION B-B

BOLT KEEPER PLATE DETAIL

ALTERNATIVE BASE CONNECTION DETAILS

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