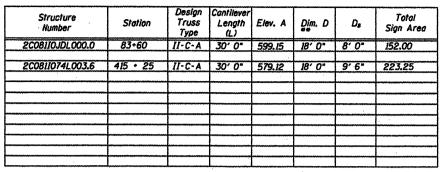
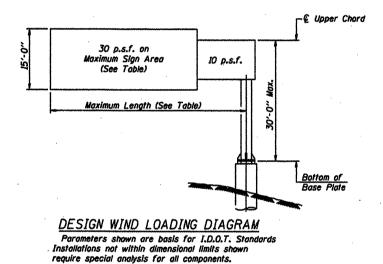
NOTE: PROPOSED FOUNDATION ELEVATIONS ARE REFERENCED TO TOP OF THE EXISTING FOOTING WHICH WAS ASSUMED TO BE 595.96

NOTE: PROPOSED FOUNDATION ELEVATIONS ARE REFERENCED TO TOP OF THE EXISTING FOOTING WHICH WAS ASSUMED TO BE 578.90



** 44' RIGHT OF CENTERLINE WESTBOUND LANES

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



1 After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and

. If M270 Gr. 50W (M222) steel is proposed. chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizina and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs. Luminaires and Traffic Sianais, ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES: f'c = 3.500 p.s.l. fy * 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS DL1 and DL2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before anivanizing.

FASTEMERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449. ASTM A193. Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction, Rotational capacity ("ROCAP") testing of boits will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Boits and Eyeboits must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Evebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Gaivanized after fabrication in accordance with AASHTO MIII. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 105 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in

TO STA.

FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

> CANTILEVER SIGN STRUCTURES GENERAL PLAN & ELEVATION ALUMINUM TRUSS & STEEL POST

TOTAL BILL OF MATERIAL

		TOTAL BILL OF MATERIAL		
REVISION	DATE	ITEM	UNIT	TOTAL
	,	OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
		OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	
		OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	***************************************
		OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	
		DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds	

Elev. A = Elevation at point of minimum

clearance to sign, walkway support or truss.

DESIGNED -REVISED -USER NAME . CUSERO REVISED -PLOT SCALE . SSCALES CHECKED -REVISED -PLOT DATE . SOATES DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

District 2 Sign Structure Replacement SCALE: SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEET NO. SECTION

OSC-A-1

FILE NAME

efilEL*

12-1-08

Alternate Direction of Harizantal

Planes of Upper and Lower Chords

Lower Chord Bracing, typ.

TYPICAL PLAN

Alternate Vertical Diagonal Bracing for Each Boy in Planes of Front and Back Chords

Cantilever Length (L) and Basis of Payment

Edge of

TYPICAL ELEVATION

Looking in Direction of Traffic

NOTE: PROPOSED FOOTING ELEVATIONS ARE BASED ON A SURVEY USING THE TOP OF THE EXISTING FOOTING AS A BENCH MARK WITH AN ASSUMED ELEVATION OF 595.96.

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations,

consideration should be given to attaching temporary blank sign panels to

(alona © of truss)

lights (if required)

omitted for clarity