Alternate Direction of Horizontal		<u>GENERAL NOTES</u> DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")
Diagonal Bracing for Each Bay in Planes of Upper and Lower Chords Bracing, typ.	Type (L)	Ds Total Sign Area CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Provisions for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")
	4R034.0-000 III-C-A 35' 630.1 23'-0" 11'	-6" 196 Sg. Ft. LOADING: 90 M.P.H. WIND VELOCITY
C of Truss		WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.
Lower Chord Bracing, typ.		DESIGN STRESSES:
TYPICAL PLAN		Field Units f'c = 3,500 p.s.i.
(Walkway not shown)		fy = 60,000 p.s.i. (reinforcement)
Sign Basel Alternate Vertical Diagonal Bracing for Each		WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.
Sign Panel Revenues of Front and Back Chords	Truss TypeMaximum Sign AreaMaximum LengthI-C-A170 Sq. Ft.25 Ft.II-C-A340 Sq. Ft.30 Ft.III-C-A400 Sq. Ft.40 Ft.	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 lbft. at 40° F. (Zone 2) before galvanizing.
Walkway, railing and lights (if required) omitted for clarity Cantilever Length (L) and Basis of Payment Elevation Cantilever Length (L) and Basis of Payment Post Support	30 p.s.f. on Maximum Sign Area (See Table) Maximum Length (See Table)	requirements of AASHTO MI64 (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 flot 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 IDDT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.
Elev. A (Location varies)		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-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip gaivanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.
	DESIGN WIND LOADING DIAGRAM	GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.
Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.	Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.	ANCHOR RODS: Shall conform to AASHTO M314 Gr. 105 with a minimum Charpy V-Notch (CVN) energy of 15 lbff. at 10° F.
<u>TYPICAL ELEVATION</u> Looking in Direction of Traffic		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.
Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or	Note: Trusses shall be shipped individually with adequate to prevent detrimental motion during transport, This	
maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.	require ropes between horizontals and diagonals or e dissipating (elastic) ties to the vehicle. The contract responsible for maintaining the configuration and prov of the trusses.	or is FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include
	(1) After adjustments to level truss and insure adequate clearance, all top and leveling nuts shall be tightened the base plate with a minimum torque of 200 lbft. steel mesh shall then be placed around the perimeter base plate. Secure to base plate with stainless stee	against Stainless of the
	 If M270 Gr. 50W (M222) steel is proposed, chemistry plate to be used shall first be approved by the Engin 	y for ITEM UNIT TOTAL
	suitable for galvanizing and welding.	OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A Foot OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-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
	$\frac{1}{2} = \frac{1}{2} \left[\frac{1}{2} \left[$	
OSC-A-1 7-1-10 FILE NAME - USER NAME - DESIGNED - REVISED -		DRILLED SHAFT CONCRETE FOUNDATIONS Cu. Yds.
CHECKED - REVISED	STATE OF ILLINOIS	CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION RTE SECTION COUNTY SHEETS NO.
PLOT SCALE - DRAWN REVISED	DEPARTMENT OF TRANSPORTATION	ALUMINUM TRUSS & STEEL POST Vor 101 OVD SIN STR REPLII-30 Vorious 15 26