

05-A-1

7-1-10

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FILE NAME =	USER NAME =	DESIGNED - PMK	REVISED - 3/2/2012		OVERHEAD SIGN STRUCTURES – GENERAL	
		CHECKED - MPW	REVISED -	STATE OF ILLINOIS		
	PLOT SCALE =	DRAWN - PMK	REVISED -	DEPARTMENT OF TRANSPORTATION	ELEVATION – ALUMINUM TRUSS & STEEL SU	
	PLOT DATE =	CHECKED - MPW	REVISED ~		SHEET NO. 1 OF 16 SHEETS	

## GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES:

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 D1.1 and D1.2 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 galvanizing,

FASTENERS 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 nuls. Bolls 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 ASIM 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.

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 sleet, or an equivalent material acceptable to the Engineer. All nuts for U-Bolis and Eyebolts 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

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

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36, 55 or 105 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° 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 accordance with the Standard Specifications,

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

## TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL.
I STRUCTURE SPAN TYPE I-A	Foot	89
I STRUCTURE SPAN TYPE II-A	Foot	68
I STRUCTURE SPAN TYPE III-A	Foot	349
I STRUCTURE WALKWAY TYPE A	Foot	333
DATIONS	Cu Yds.	0
CONCRETE FOUNDATIONS	Cu Yds.	161

					1.00	
PLAN &	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SUPPORTS	•	82-1SG	ST. CLAIR	145	87	
30110113	•998/70/64		CONTRACT	NO. 7	6C45	
	ILLINOIS FED. AID PROJECT					