## STATE OF ILLINOIS Various Routes D 6 OVD SIN STR REPL 2010-38 DEPARTMENT OF TRANSPORTATION Pike & Sangamon Counties Sheet 17 of 27 Contract Number 46103 3<sub>16</sub> " carbon steel. Hot dip 10 Ga. stainless steel or hot anized after fabrication. dip galvanized carbon steel. 34" \$ stainless steel U-bolt Provide two washers and two Support Design Loads: See Base Sheet OS-A-1 for design hexagon locknuts. 4 13,6" x 2" slots on £ 10" \$ pipe. At € pipeand loading criteria. Load combinations checked include deadload plus: (4 slots required per pipe) a) 100% wind normal to sign, 20% parallel to sign b) 60% wind normal to sign, 30% parallel to sign and plug, and 12" hole in cover Detail In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less. <u>UPPER</u> LOWER HANDHOLE COVERS (2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately. holes may be provided in wall of pipe column. All vent Detail C (See Base Sheet OS-A-6A.) holes shall be drilled and de-burred, typ. ~w8x28(3) 3 Steel pipe, plate, carbon steel handhole covers and rolled 1034" sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1. DETAIL A 3" ∮ pipe ③ 4) See General Notes for fasteners. (5) Dimensions shown are based on selection criteria in the Drill & tap Galv. Bolts for \a" - 20 screws. Sign Structures Manual. Nonstandard applications must √ \typ. (ASTM A307) Chase thread have dimensions verified or amended as appropriate. 334" after galvanizing. (6) "H" based on 15'-0" or actual sign height, whichever is greater. 3" at 90° intervals. Install after 10" • pipe (3) galvanizing frame. € of frame within 1" of plumb (For wall thickness see table.) 4-12" hex nuts at 90° intervals welded to pipe. Chase threads after galvanizing frame. Structure Truss Pipe Wall Provide $6\frac{1}{2}$ " x $4\frac{1}{2}$ " cover. Provide $4-\frac{5}{16}$ " $\phi$ holes in cover for 6 Right Туре Thickness Left SECTION A-A 6S084B055R000.71 64 + 00 II-A 0.365(Std) 27'-9 3/4" B'-3 1/4" 4"-20 round head hot dip galvanized or As an atternate to bolts, may use galvanized stainless steel machine screws. drive-fit caps installed after galvanizing frame. (See cover details) 290 + 00 6S084I055L096.7 II-A 0.365(Std) 25'-10 1/4" 19'-4" DETAIL D 3" wide - 10 Ga. bent stainless steel cover plate with two Be " o holes Backfill shall be placed Detail B (See Base Sheet OS-A-6A.) prior to erection o support frame The "H" and "A" dimensions shown were taken from the existing end support details. 3" Galvanized Steel Conduit. Thread Conduit • leg with handhole and cap both ends.

For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

## 10" # PIPE TRUSS SUPPORT FRAME

END ELEVATION

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SECTION B-B

EXAMINED

PASSED

5/16/08

DESIGNED -

CHECKED -

CHECKED -

Truss Type	Dimensions									
	R	S	T	U	· v	W	Х	r		
I-A	4'-6"	5'-5'2"	4'-0"	5′-6″	6'-434"	4"	9"	8'-3"		
II-A (5)	5'-3"	6"-34"	4'-6"	6'-1"	6'-1134"	434"	95"	8'-3"		

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME for ALUMINUM TRUSS

District 6
Sign Structure Replacement