Various Routes STATE OF ILLINOIS D 8 OVD SIN STR REPL 2010-45 DEPARTMENT OF TRANSPORTATION Madison & St. Clair Counties Sheet 5 of 16 Contract Number 46109 6'-05R" 3₁₆ " carbon steel. Hot dip 10 Ga. stainless steel or hot Ivanized after fabrication. dip galvanized carbon steel. 34" \$ stainless steel U-bolt. Provide two washers and two 4'-0" hexagon locknuts. 4) 13,6" x 2" slots on & 8" \$ pipe. At & pipe (4 slots required per pipe) Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria. 112" \$ pipe coupling and plug, and 112" \$ Load combinations checked include deadload plus: a) 100% wind normal to sign, 20% parallel to sign b) 60% wind normal to sign, 30% parallel to sign hole in cover Detail for aeometry LOWER HANDHOLE COVERS 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 μ in or less. **€** Upper Handhole (See Detail D) Detail C (See Base Sheet OS-A-4A.) Galvanizing vent holes of adequate size shall be provided ∠w8x28(3) on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ. DETAIL A (3) Steel pipe, plate, carbon steel handhole covers and rolled 212" \$ pipe(3) sections shall be not dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1. Drill & tap (4) See General Notes for fasteners. Galv. Bolts for 4" - 20 screws. (ASTM A307) Chase thread 334" after galvanizing. (5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate. $\frac{1}{4}$ " galv. cap plate with $4 \cdot \frac{5}{8}$ " \$\phi\$ holes at 90° intervals. (6) "H" based on 15'-0" or actual sign height, whichever is greater. Install after 8" \$ Std. pipe (3) galvanizing frame. **©** of frame $\frac{3_{a}" \times 2" \text{ flat}}{\text{bar frame (1)}}$ within 1" of plumb 4-12" hex nuts at 90° intervals welded to pipe. Chase threads after galvanizing frame. Support Structure Provide 6^{l_2} " x 4^{l_2} " cover. Provide 4^{-5}_{l6} " ϕ holes in cover for 6 Number Left Right SECTION A-A 8S060S003R015.3 1020 + 00 | X | X | 25' - 1" 18'-4 1/2" 4"-20 round head hot dip galvanized or As an alternate to bolts, may use galvanized stainless steel machine screws. drive-fit caps installed after galvanizing frame. (See cover details) 7'-6" DETAIL D 3" wide - 10 Ga. bent stainless steel cover plate with two 13,6 " \$\phi\$ holes Backfill shall be placed Detail B (See Base prior to erection of "D" = Outside support frame The "H" and "A" dimensions shown were taken from the existing end support details. For Foundation Details 3" Galvanized Steel Conduit. Thread see Base Sheet OS-F2. Conduit 🗭 leg or 054-F2 and cap both ends. SECTION B-B OVERHEAD SIGN STRUCTURES SIDE ELEVATION END ELEVATION SUPPORT FRAME for TYPE I-A ALUMINUM TRUSS 8" \$ PIPE TRUSS SUPPORT FRAME NUMBER REVISION DATE NOTES: 1. New End Supports to be installed on existing concrete foundations with existing anchor bolts. DESIGNED -District 8 The Contractor shall provide new anchor bolt nuts and washers as necessary. EXAMINED CHECKED -2. Some of these are non standard end supports the Contractor and the Engineer shall field Sign Structure Replacement PASSED verify the existing end support dimensions and the existing anchor bolt dimensions prior to DRAWN fabrication of the new end supports. This measurement should include the horizontal distance CHECKED between the center lines of the columns at the base plate to assure the new supports will fit

the existing anchor bolt pattern.

05-A-4

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