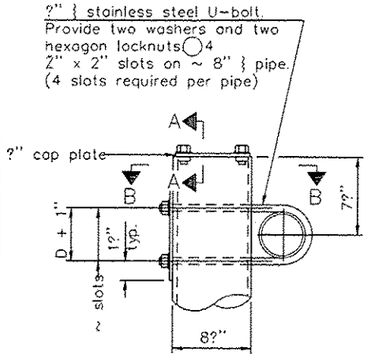
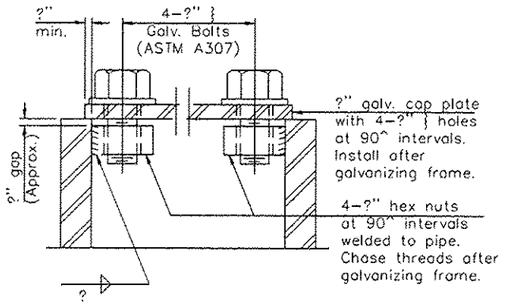
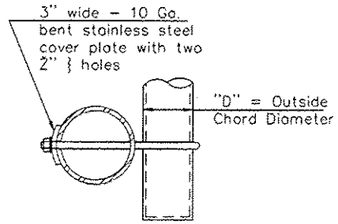


DETAIL A

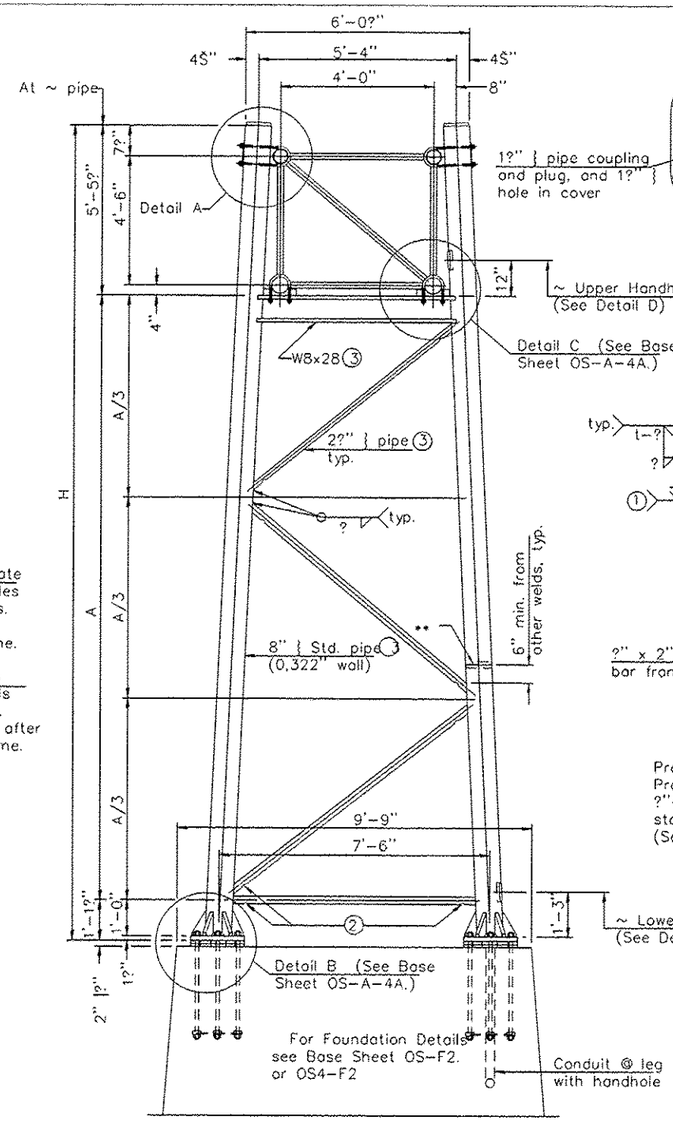


SECTION A–A

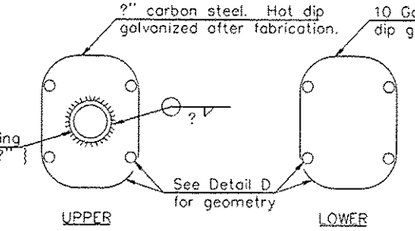
As an alternate to bolts, may use galvanized drive–fit caps installed after galvanizing frame.



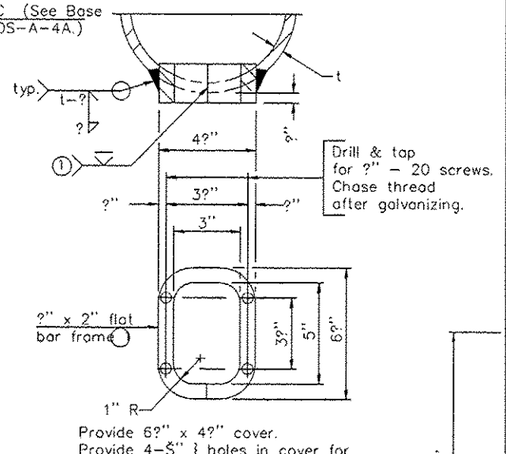
SECTION B–B



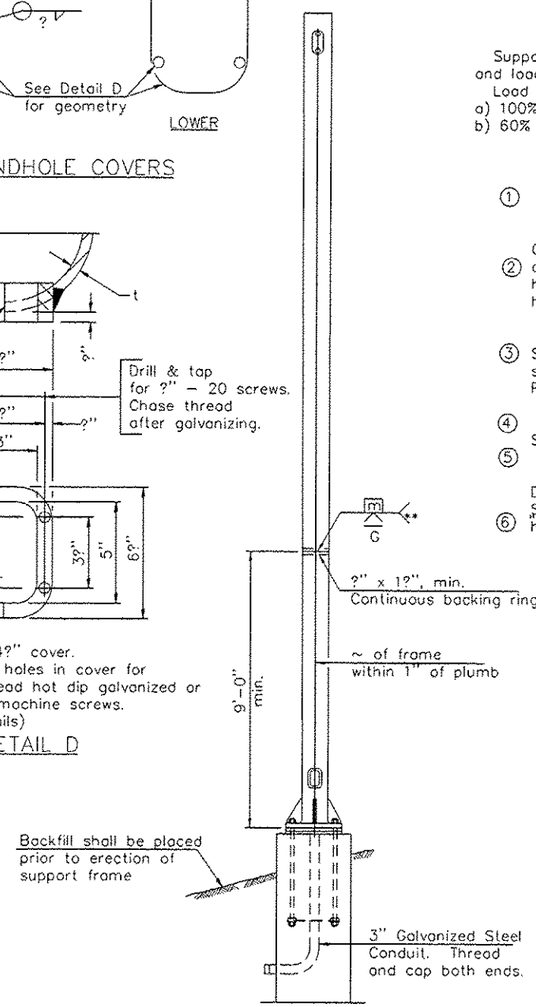
SIDE ELEVATION



HANDHOLE COVERS



DETAIL D



END ELEVATION

Support Design Loads: See Base Sheet OS–A–1 for design and loading criteria.
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

① 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 m in or less.

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 holes shall be drilled and de–burred, typ.

③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS–A–1.

④ See General Notes for fasteners.

⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

⑥ Based on 5.0 or actual sign height, whichever is greater.

8" } PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre–approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		H ⑥	A
		Left	Right		
4–20	191+00	X	X	26.98	20.49
4–29	274+50	X	X	27.56	21.07
4–32	72+00	X	X	26.70	20.21

OS–A–4 6–1–12

FILE NAME =	USER NAME =	DESIGNED – ___	REVISED –
		CHECKED – ___	REVISED –
	PLOT SCALE =	DRAWN – ___	REVISED –
	PLOT DATE =	CHECKED – ___	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE I–A ALUMINUM TRUSS
SHEET NO. __ OF ___ SHEETS

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	04–4 OVD SIN STR REPL 14–47	VARIOUS	65	36

CONTRACT NO. 46314
ILLINOIS FED. AID PROJECT