DETAIL A

$\frac{3}{4}$'' φ stainless steel U-bolt.
Provide two washers and two
hexagon locknuts. (4)
$\frac{13}{16}$'' x 2'' slots on ℄ 10'' φ pipe.
(4 slots required per pipe)

$\frac{1}{4}$'' cap plate

$7\frac{1}{2}$''

D + 1''

$1\frac{1}{2}$'' typ.

℄ slots

$10\frac{3}{4}$''

SECTION A-A

$\frac{1}{8}$'' min.

4-$\frac{1}{2}$'' φ Galv. Bolts (ASTM A307)

$\frac{1}{8}$'' gap (Approx.)

$\frac{1}{4}$'' galv. cap plate
with 4-$\frac{5}{8}$'' φ holes
at 90° intervals.
Install after
galvanizing frame.

4-$\frac{1}{2}$'' hex nuts
at 90° intervals
welded to pipe.
Chase threads after
galvanizing frame.

$\frac{3}{16}$

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

SECTION B-B

3'' wide - 10 Ga.
bent stainless steel
cover plate with two
$\frac{13}{16}$'' φ holes

"D" = Outside
Chord Diameter

SIDE ELEVATION

At ℄ pipe

V
U
T
$5\frac{3}{8}$''   X $5\frac{3}{8}$''

$7\frac{1}{2}$''
S
R
W
A
A/3
A/3
A/3
A/3
H

Detail A

$1\frac{1}{2}$'' φ pipe
coupling and plug.
and $1\frac{1}{2}$'' φ hole
in cover

℄ Upper Handhole
(See Detail D)

12''

Detail C (See
Base Sheet
OS-A-6A.)

W8x28 (3)

3'' φ pipe (3)
typ.

$\frac{1}{4}$ typ.

10'' φ pipe (3)
(For wall thickness
see table.)

**

6'' min. from
other welds, typ.

$1\frac{1}{2}$''
1'-0''
2'' ±$\frac{1}{4}$''
$1\frac{1}{2}$''

Detail B (See Base
Sheet OS-A-6A.)

℄ Lower Handhole
(See Detail D)

1'-3''

Conduit ℄ leg
with handhole

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

HANDHOLE COVERS

$\frac{3}{16}$'' carbon steel. Hot dip
galvanized after fabrication.

10 Ga. stainless steel or hot
dip galvanized carbon steel.

$\frac{1}{8}$ V

See Detail D
for geometry

UPPER   LOWER

DETAIL D

typ.   1-$\frac{1}{8}$
$\frac{1}{4}$
t

(1)

$\frac{3}{8}$'' $4\frac{1}{2}$'' $\frac{3}{8}$''

$\frac{3}{8}$'' $3\frac{3}{4}$'' $\frac{3}{8}$''

3''

Drill & tap for
$\frac{1}{4}$'' - 20 screws.
Chase thread
after galvanizing.

$\frac{3}{4}$'' x 2'' flat
bar frame (1)

$3\frac{1}{2}$''   5'' $6\frac{1}{2}$''

1'' R

Provide $6\frac{1}{2}$'' x $4\frac{1}{2}$'' cover.
Provide 4-$\frac{5}{16}$'' φ holes in cover for
$\frac{1}{4}$''-20 round head hot dip galvanized or
stainless steel machine screws.
(See cover details)

END ELEVATION

m
G
**

$\frac{1}{4}$'' x $1\frac{1}{2}$'', min.
Continuous backing ring

℄ of frame
within 1'' of plumb

9'-0'' min.

Backfill shall be placed
prior to erection of
support frame

3'' Galvanized Steel
Conduit. Thread
and cap both ends.

10'' φ 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.

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 μin 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) "H" based on 15'-0'' or actual sign height, whichever is greater.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
8S060127OR002.3	1217+50	X		II-A	0.365''	25'-8$\frac{1}{4}$''	18'-3$\frac{1}{2}$''
8S060127OR002.3	1217+50		X	II-A	0.365''	29'-10$\frac{3}{8}$''	22'-5$\frac{5}{8}$''

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6''	5'-5$\frac{1}{2}$''	4'-0''	5'-6''	6'-4$\frac{3}{4}$''	4''	9''	8'-3''
II-A (5)	5'-3''	6'-3$\frac{1}{4}$''	4'-6''	6'-1''	6'-11$\frac{3}{4}$''	4$\frac{3}{4}$''	9$\frac{1}{2}$''	8'-3''