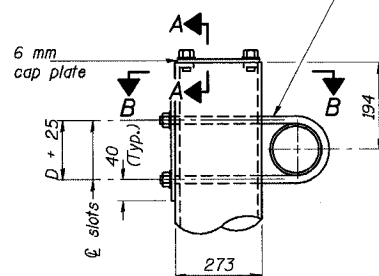


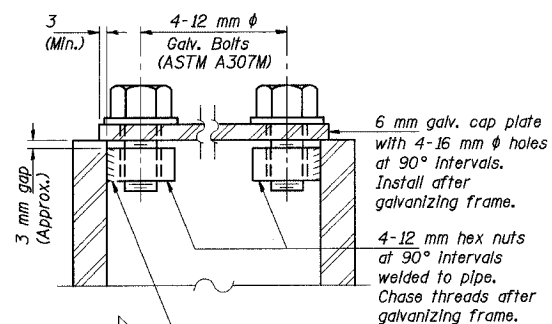
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I-80/94		COOK	870	319
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-	
(0203.1 & 0312-708W) R3		CONTRACT NO. 62108		

19 mm ϕ stainless steel U-bolt
Provide two washers and two hexagon locknuts. (4)
21 mm x 51 mm slots on ϕ DN 250 pipe.
(4 slots required per pipe)

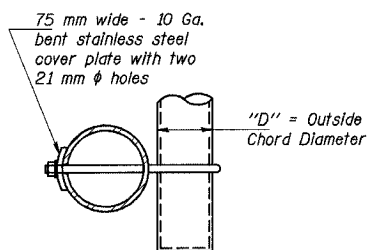


DETAIL A

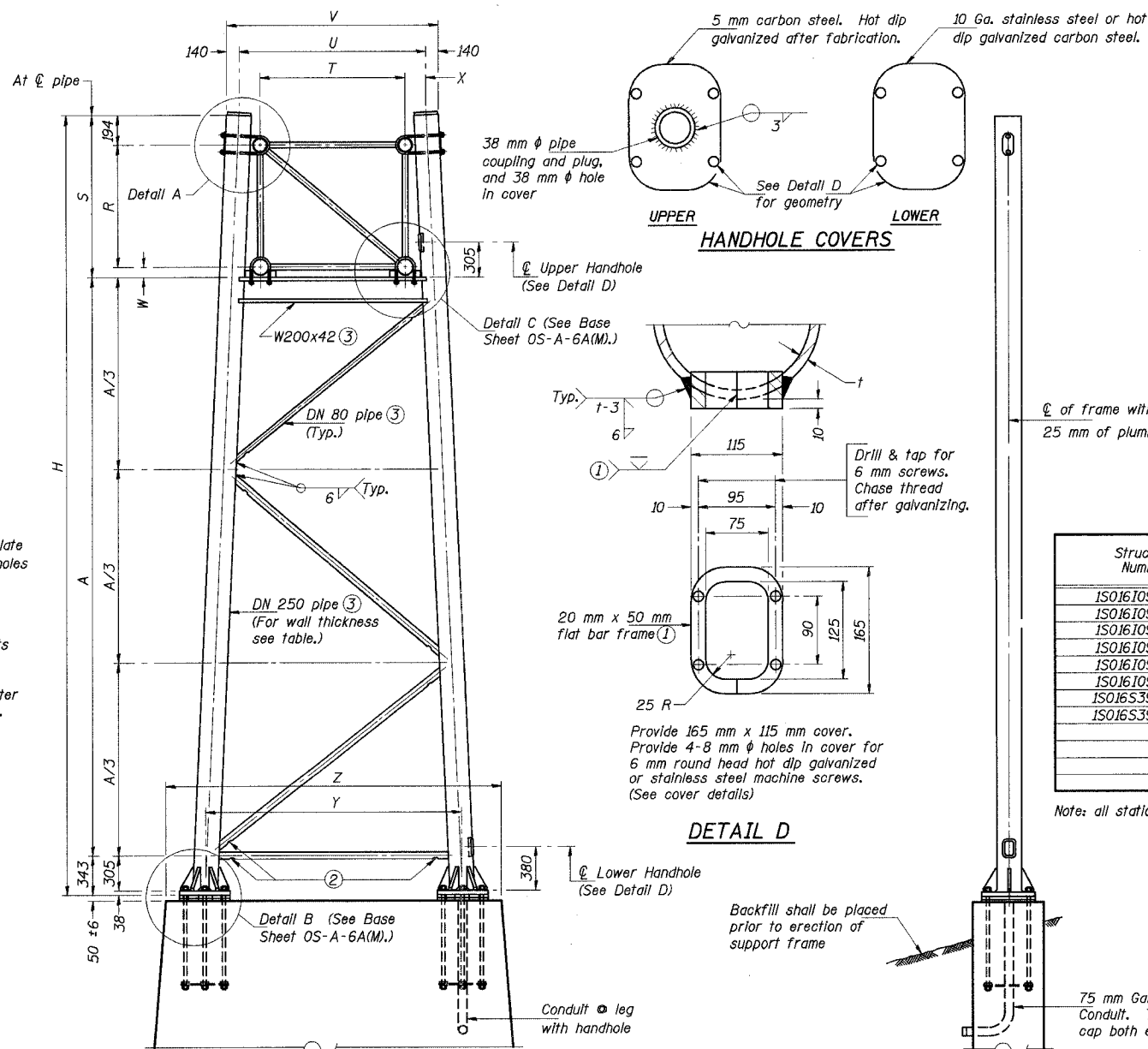


SECTION A-A

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



SECTION B-B



FOR FOUNDATION DETAILS SEE BASE SHEET OS-F3(M) (Spread Footing) or OS4-F3(M) (Drilled Shaft).

SIDE ELEVATION

DN 250 PIPE TRUSS SUPPORT FRAME

END ELEVATION

Support Design Loads: See Base Sheet OS-A-1(M) 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

- In lieu of fabricated handhole frame as shown, may cut from 50 mm plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 12.7 μ m or less.
- 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.)
- 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(M).
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (m)	A (m)
		Left	Right				
ISO16I094R073.3	18+871		✓	I-A	7	8.361	6.358
ISO16I094R073.3	18+871	✓		I-A	7	7.585	5.582
ISO16I094R073.5	19+274		✓	II-A	9	8.466	6.213
ISO16I094R073.5	19+274	✓		II-A	9	7.700	5.447
ISO16I094R073.8	19+686		✓	II-A	9	8.465	6.213
ISO16I094R073.8	19+686	✓		II-A	9	7.700	5.447
ISO16S394R	440+757 (IL-394)		✓	II-A	9	9.103	6.850
ISO16S394R	440+757 (IL-394)	✓		II-A	9	8.990	6.738

Note: all stationing is based on I - 94 unless noted otherwise.

NUMBER	REVISION	DATE

Truss Type	Dimensions									
	R (m)	S (m)	T (m)	U (m)	V (m)	W (mm)	X (mm)	Y (m)	Z (m)	
I-A	1.37	1.66	1.22	1.68	1.96	100	230	2.52	3.28	
II-A (5)	1.60	1.91	1.37	1.85	2.13	120	240	2.52	3.28	

DESIGNED	PY
CHECKED	DD
DRAWN	LK
CHECKED	DD

OS-A-6(M)

11/1/2002

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6 (KINGERY EXPRESSWAY)

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS

DATE: JUL 18, 2005
SCALE: ---

HNTB