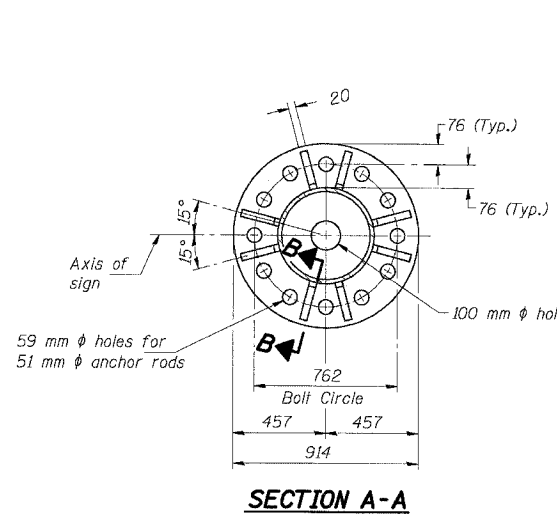
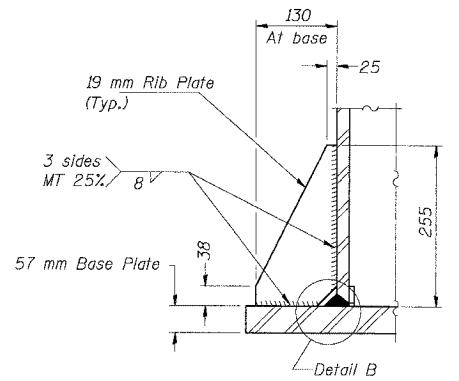


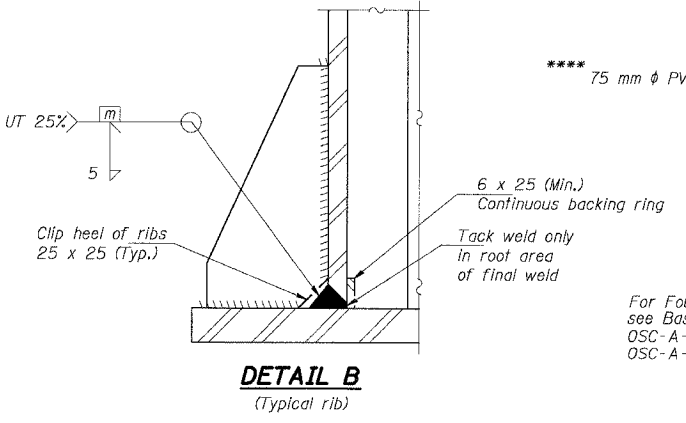
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94		COOK	631	331
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(2425 & 2626) R-2			CONTRACT NO. 62111	



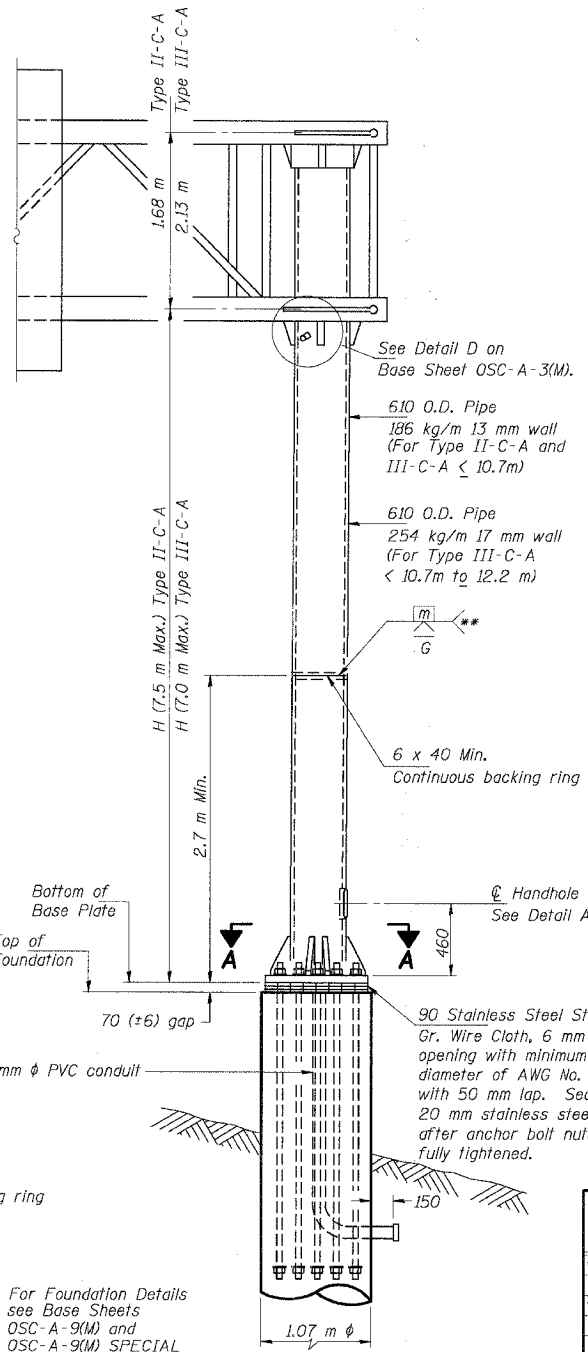
SECTION A-A



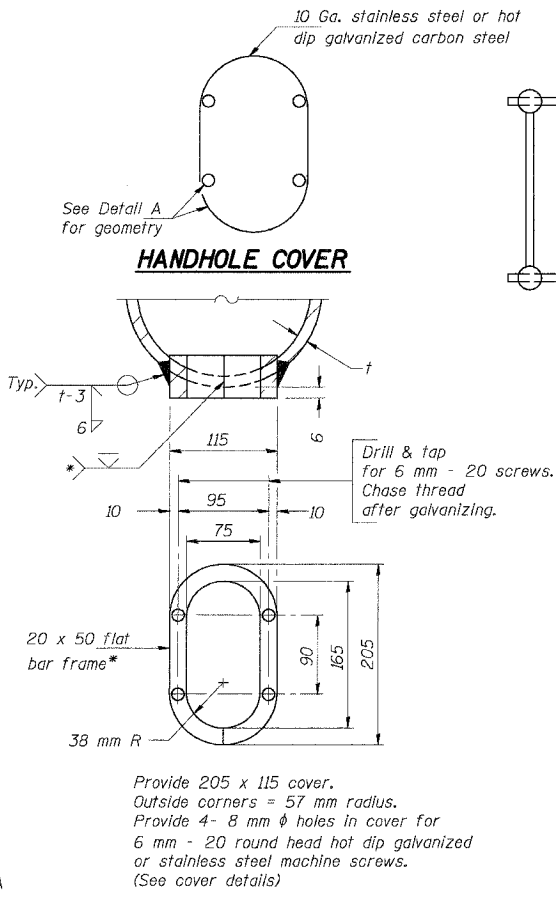
SECTION B-B



DETAIL B
(Typical rib)



FRONT ELEVATION



DETAIL A

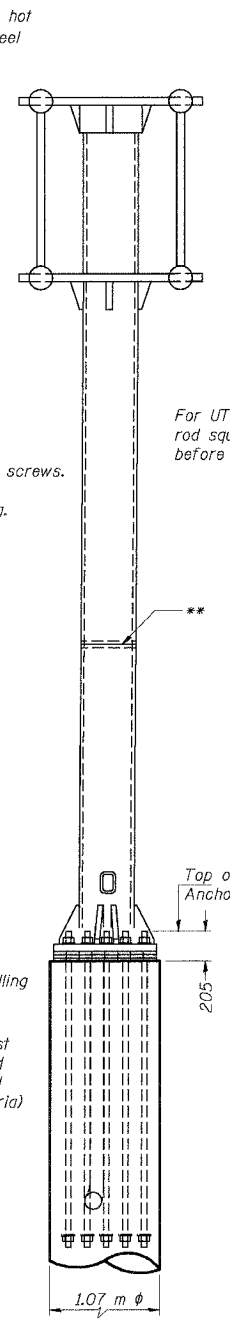
Provide 205 x 115 cover. Outside corners = 57 mm radius. Provide 4 - 8 mm ϕ holes in cover for 6 mm - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details)

*Bent bars may be butt welded top and bottom or bottom only. 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.

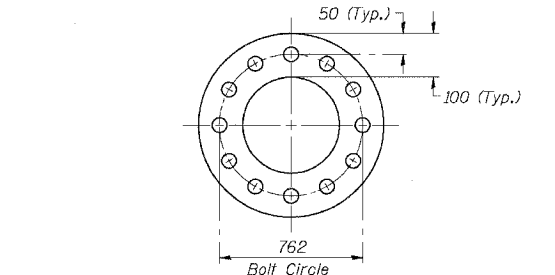
**Butt welded joint in post is only allowed for post heights (H) over 6.10 m in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
****1C0161080L162.1	5+658.000	5.85 m
****1C0161080L162.3	6+100.000	6.0 m

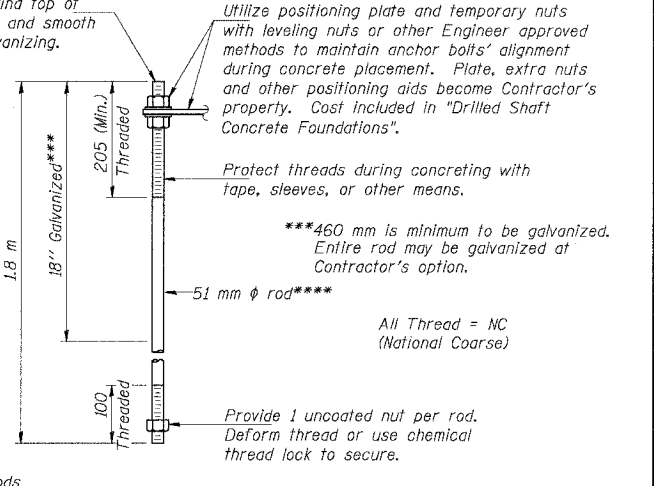
****Anchor rods, positioning plate, and PVC conduit for Structure Numbers 1C0161080L162.1 and 1C0161080L162.3 to be furnished and installed by others in a previous contract 62110.



SIDE ELEVATION



******SUGGESTED POSITIONING PLATE**



******ANCHOR ROD DETAIL**

For UT, grind top of rod square and smooth before galvanizing.

Utilize positioning plate and temporary nuts with leveling nuts or other Engineer approved methods to maintain anchor bolts' alignment during concrete placement. Plate, extra nuts and other positioning aids become Contractor's property. Cost included in "Drilled Shaft Concrete Foundations".

Protect threads during concreting with tape, sleeves, or other means.

****460 mm is minimum to be galvanized. Entire rod may be galvanized at Contractor's option.

51 mm ϕ rod****

All Thread = NC (National Coarse)

Provide 1 uncoated nut per rod. Deform thread or use chemical thread lock to secure.

Anchor rods shall conform to AASHTO M314 Grade 380 (55) and meet Charpy V-Notch (CVN) energy of 20 J at - 12 $^{\circ}$ C. before galvanizing. Galvanize the upper 460 mm (minimum****) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 270 N-m minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 13 mm ϕ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 460 mm (tension criteria). Cost of testing included in "Drilled Shaft Concrete Foundations".

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 2 3 4 56 78 9 10 11 12 13 14 15 16 17 18 19 20 21 2223 24 25 26 27 28 29 30 31 3233 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
 EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION
 COOK COUNTY

**CANTILEVER SIGN STRUCTURES
 TYPE II-C-A & III-C-A TRUSS SUPPORT
 ALUMINUM TRUSS & STEEL POST**

SCALE: DATE: 7/18/2005
 DRAWN BY: NK
 CHECKED BY: VCP

TENG
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS