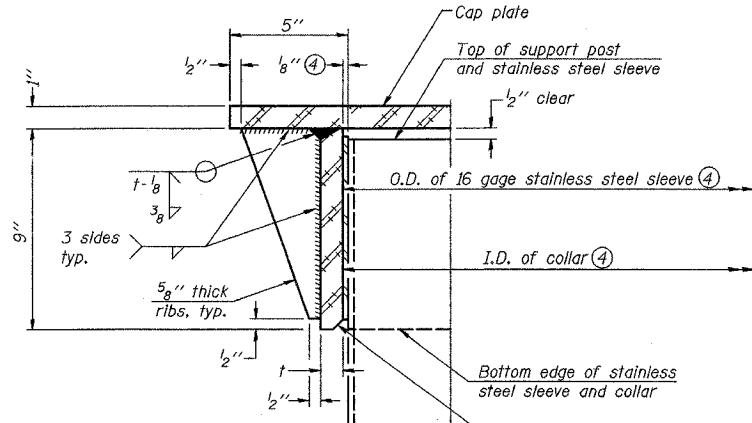
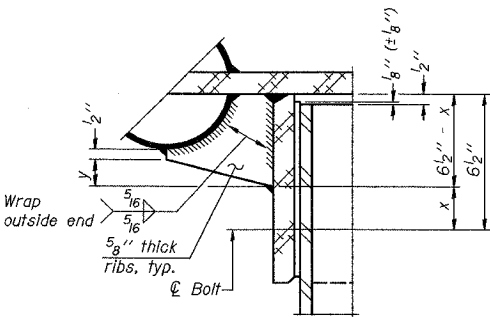


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8 inch (+/- 1/16 inch). Maximum gap between post and collar at any location equals 1/8 inch before tightening bolts.

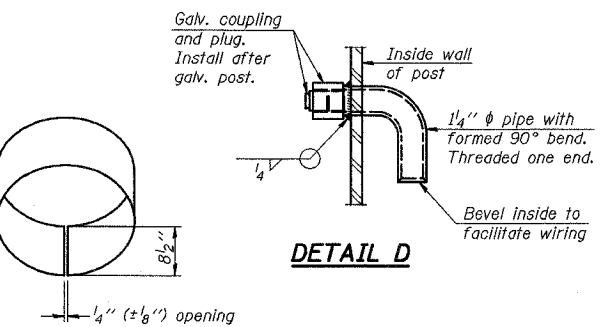
**SECTION B-B**  
 Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



**DETAIL A**  
 (Two locations)



**DETAIL B**  
 Two locations  
 (For details not shown, see Detail C)

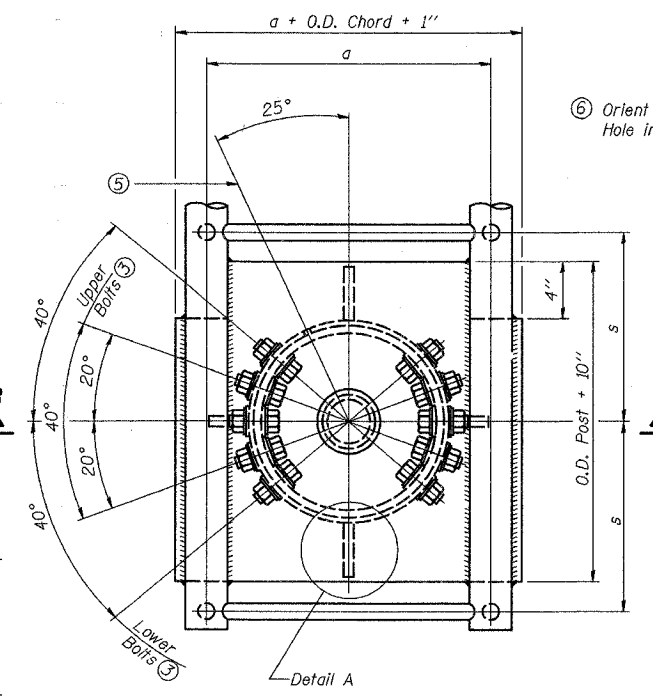


**DETAIL OF STAINLESS STEEL SLEEVE**  
 Weld to post after galvanizing.  
 (Prepare post surface to insure tight, uniform fit and allow welding.)  
 Welds to be 1/2 inch long at 6 inch cts. along top edge and at 1/4 inch opening.

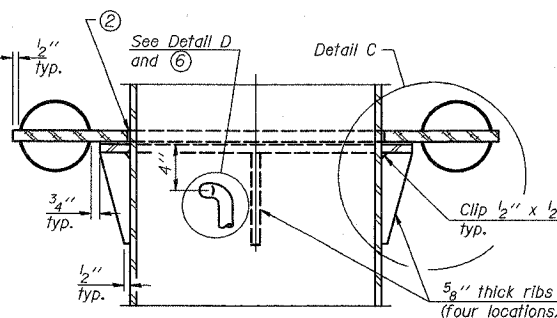
**CONTOURED WASHERS**

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

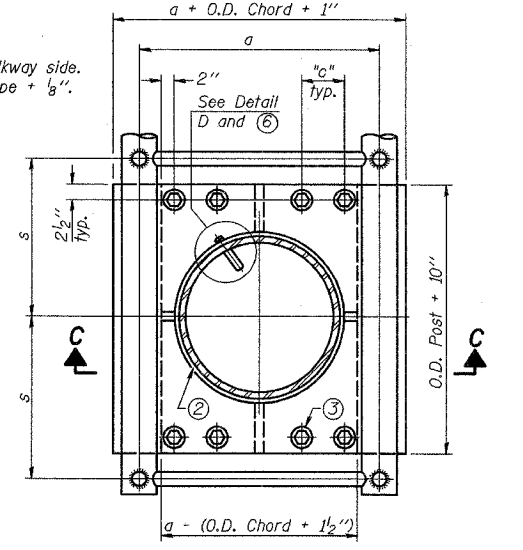
NUMBER	REVISION	DATE



**PLAN VIEW - TOP OF COLUMN**  
 ⑤ Optional full penetration weld in collar.  
 (Two locations maximum... (180 degrees apart)... X-ray or UT 100%)

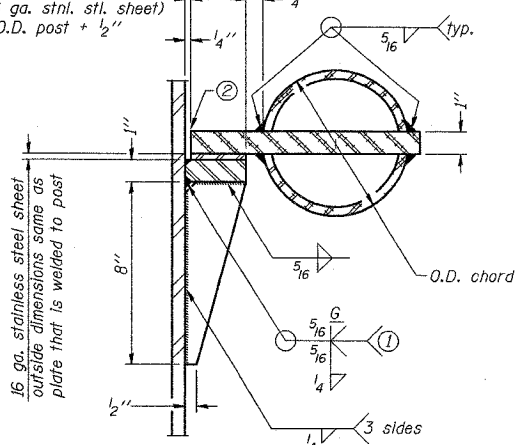


**SECTION C-C**



**SECTION THRU POST ABOVE LOWER CHORDS**

Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2 inch



**DETAIL C**

① Grind top if required to fully seat aluminum plate and stainless steel sheet.  
 ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "a" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" phi (83#/1')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" phi (125#/1')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" phi (125#/1')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" phi (171#/1')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

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**PB PARSONS BRINCKERHOFF**

REVISIONS	
NAME	DATE

**OSC-A-3** 1-7-05  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. I-55  
 143rd STREET TO WEBER RD.  
 CANTILEVER SIGN STRUCTURES  
 JUNCTURE DETAILS  
 ALUMINUM TRUSS & STEEL POST  
 SCALE: DRAWN BY: JS, LC  
 DATE: FEBRUARY 23, 2007 CHECKED BY: SE