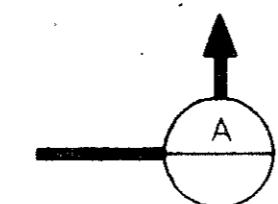
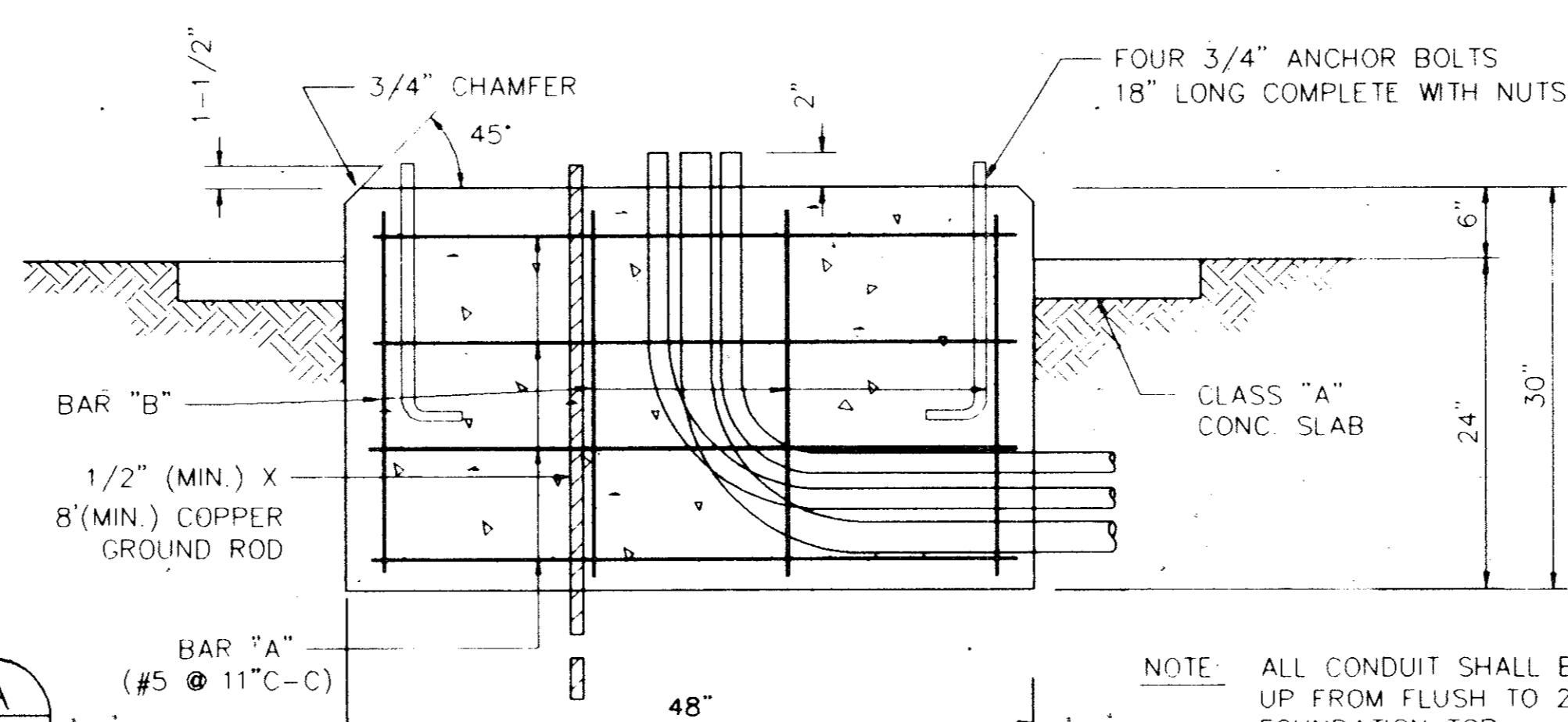


TOP VIEW  
CONTROLLER FOUNDATION

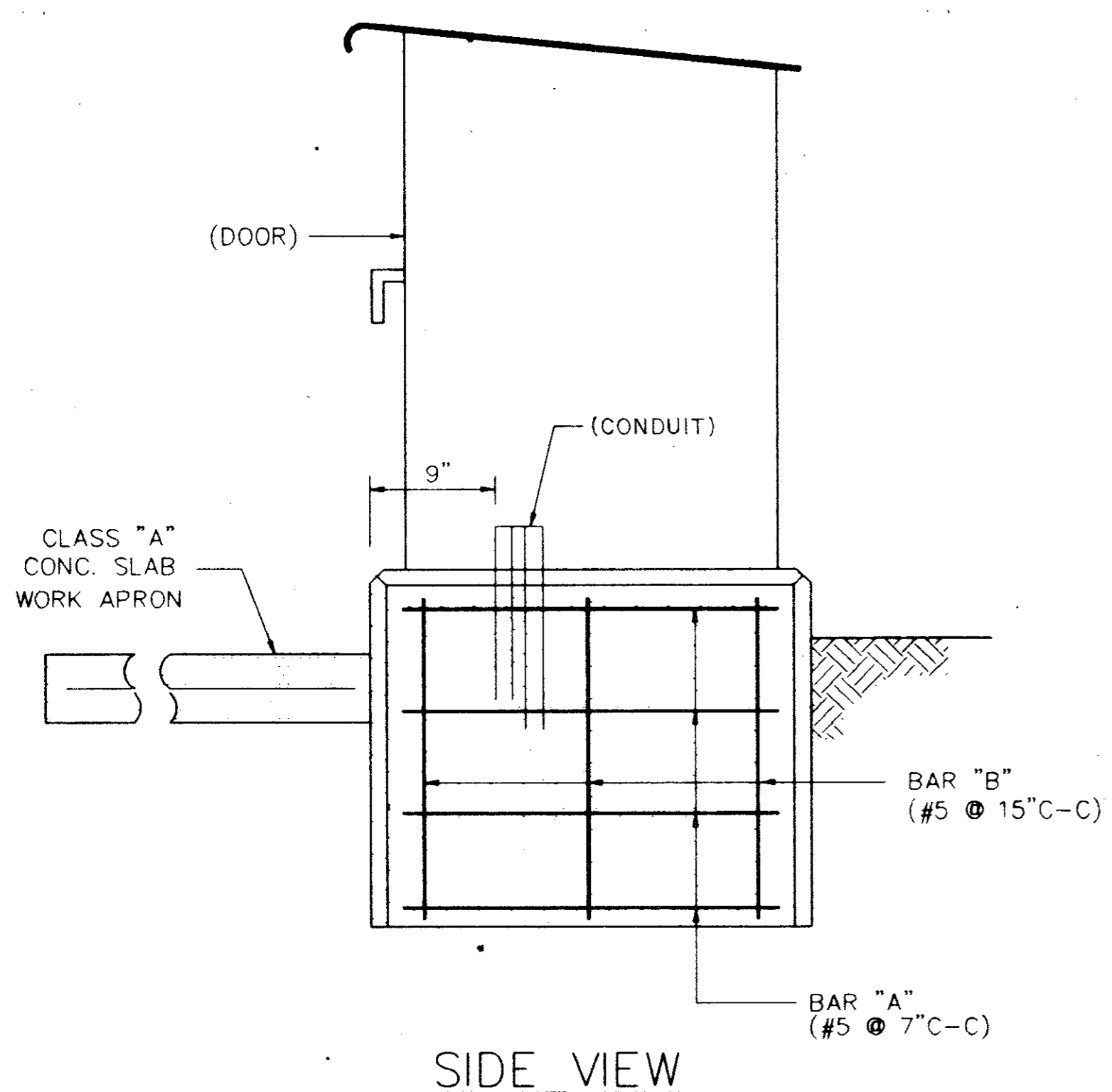


ELEVATION  
SECTION A



6"X6" NO.6 WIRE MESH

DETAIL 1



SIDE VIEW

FOUNDATION DESIGN TABLE

FDN. TYPE	DRILLED SHAFT DIA.	REINFORCING STEEL		DRILLED SHAFT LENGTH - feet			ANCHOR BOLT DESIGN				FOUNDATION DESIGN LOAD		TYPICAL APPLICATION
		VERT. BARS	SPIRAL & PITCH	TEXAS CONE	PENETROMETER, N	blows/ft	ANCHOR BOLT DIA.	F <sub>y</sub> (ksi)	BOLT CIRCLE DIA.	ANCHOR TYPE	MOMENT K-ft	SHEAR Kips	
24-A	24"	4-#5	#2at12"	5.7	5.3	4.5	3/4"	36	12-3/4"	1	10	1	PEDESTAL POLE, PEDESTAL MOUNTED CONTROLLER.
30-A	30"	8-#7	#3at9"	11.3	10.3	8.0	1-1/2"	55	17"	2	87	3	MAST ARM ASSEMBLY (SEE SELECTION TABLE)
30-B	30"	8-#9	#3at9"	13.2	11.9	9.0	1-3/4"	55	19"	2	131	5	MAST ARM ASSEMBLY (SEE SELECTION TABLE) 30' STRAIN POLE WITH OR WITHOUT LUMINAIRE.
36-A	36"	12-#9	#3at9"	15.2	13.6	10.4	2"	55	21"	2	190	7	MAST ARM ASSEMBLY (SEE SELECTION TABLE) STRAIN POLE TALLER THAN 30' & STRAIN POLE WITH MAST ARM.

FOUNDATION SELECTION TABLE FOR STANDARD MAST ARM ASSEMBLIES

DESIGN WIND SPEED	MAXIMUM SINGLE ARM LENGTH	FDN 30-A	FDN 30-B	FDN 36-A
		80 MPH	24' x 24'	48'
100 MPH	MAXIMUM DOUBLE ARM LENGTH COMBINATIONS	28' x 28'		
		32' x 28'	32' x 32'	
			36' x 36'	
			40' x 36'	
100 MPH	MAXIMUM DOUBLE ARM LENGTH COMBINATIONS		44' x 28'	44' x 36'
			36' x 36'	44'
			24' x 24'	
			28' x 28'	
100 MPH	MAXIMUM DOUBLE ARM LENGTH COMBINATIONS		32' x 24'	32' x 32'
				36' x 36'
100 MPH	MAXIMUM DOUBLE ARM LENGTH COMBINATIONS			40' x 36'
				44' x 36'

EXAMPLES :

- FOR 80MPH DESIGN WIND SPEED, FOUNDATION 30-A CAN SUPPORT UP TO A 32' ARM WITH ANOTHER ARM UP TO 28'.
- FOR 100MPH DESIGN WIND SPEED, FOUNDATION 30-B CAN SUPPORT A SINGLE 36' MAST ARM.

GENERAL NOTES :

DESIGN CONFORMS TO 1975 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS AND INTERIM REVISIONS THERETO.

CONCRETE SHALL BE CLASS C.  
 THREADS FOR ANCHOR BOLTS AND NUTS SHALL BE ROLLED OR CUT THREADS OF UNIFIED NATIONAL COARSE THREAD SERIES EXCEPT FOR A19387 BOLTS WHICH SHALL HAVE 8 PITCH THREAD SERIES. BOLTS AND NUTS SHALL HAVE CLASS 2A AND 2B FIT TOLERANCES. GALVANIZED NUTS SHALL BE TAPPED AFTER GALVANIZING.  
 ANCHOR BOLTS THAT ARE 1" IN DIAMETER OR LESS SHALL CONFORM TO ASTM A36. ANCHOR BOLTS LARGER THAN 1" IN DIAMETER SHALL CONFORM TO SPECIAL SPECIFICATION A36M55 OR ASTM A19387 OR A687; GALVANIZE OR COAT WITH ZINC-RICH PAINT A MINIMUM OF THE UPPER 14 INCHES OF ALL ANCHOR BOLTS UNLESS OTHERWISE NOTED. NUTS FOR ANCHOR BOLTS SHALL CONFORM TO ASTM A563 Gr A OR BETTER HEAVY HEX. EXPOSED NUTS SHALL BE GALVANIZED OR COATED WITH ZINC-RICH PAINT. WASHERS SHALL BE GALVANIZED. TEMPLATES AND EMBEDDED NUTS NEED NOT BE GALVANIZED.

FOUNDATION SUMMARY TABLE

LOCATION / IDENTIFICATION	AVG. N blows/ft	FDN TYPE	NO. (ea.)	DRILLED SHAFT LENGTH (FEET)			
				24-A	30-A	30-B	36-A
POLE T-1	-	-	-				15'
POLE T-2	-	-	-		11'		
POLE T-3	-	-	-				15'
POLE T-4	-	-	-		11'		
TOTAL DRILLED SHAFT LENGTHS							44'

APP. Revisions No. Date

Barton-Aschman Associates, Inc.

FOUNDATION SUMMARY

Scale: 1/4" = 1'-0"  
 Date: 5/15/95  
 Designed by:  
 Drawn by:  
 Checked by: TJS  
 Approved by: TJS  
 Project No. 664003.01000