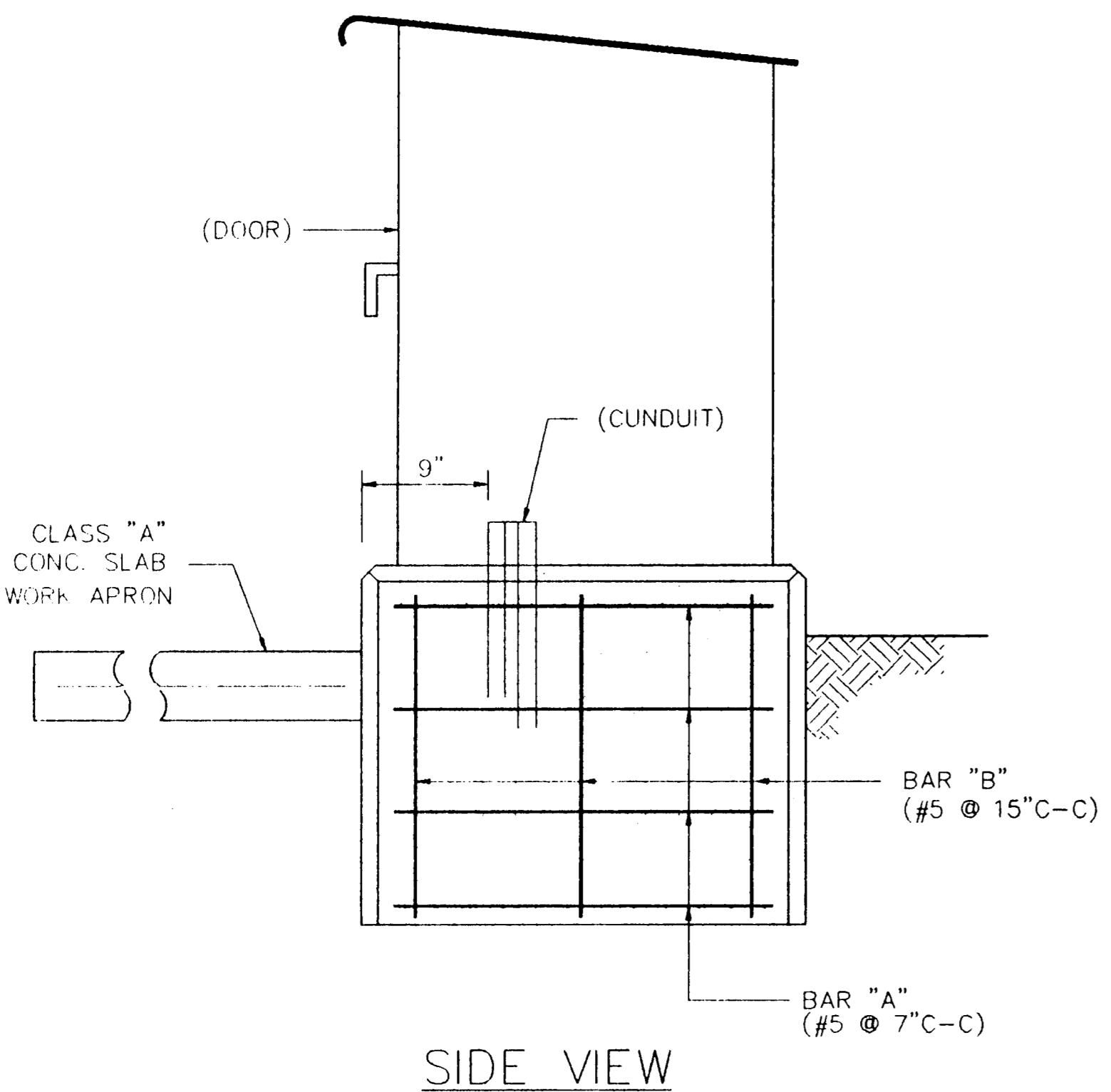


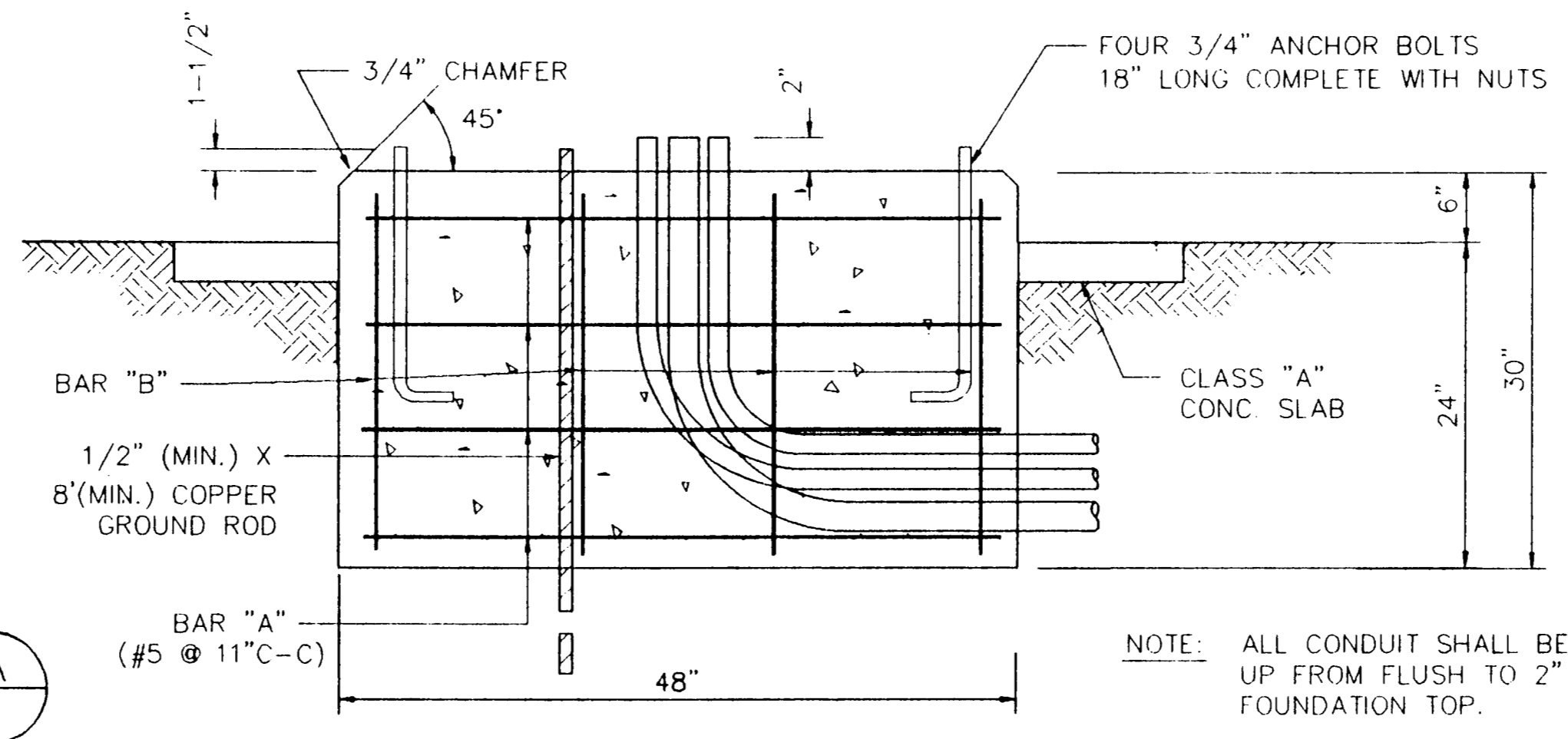
TOP VIEW

CONTROLLER FOUNDATION

DETAIL 1



SIDE VIEW



ELEVATION SECTION A

FOUNDATION DESIGN TABLE

FDN. TYPE	DRILLED SHAFT DIA.	REINFORCING STEEL		DRILLED SHAFT LENGTH - feet (4),(5)			ANCHOR BOLT DESIGN (1)			FOUNDATION DESIGN LOAD (2)		TYPICAL APPLICATION	
		VERT. BARS	SPIRAL & PITCH	TEXAS CONE PENETROMETER, N blows/ft			ANCHOR BOLT DIA.	F _y (ksi)	BOLT CIRCLE DIA.	ANCHOR TYPE	MOMENT K-ft		SHEAR Kips
				10	15	40							
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

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

EXAMPLES :

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

FOUNDATION SUMMARY TABLE (3)

LOCATION / IDENTIFICATION	AVG. N blows/ft	FDN TYPE	NO. (ea.)	DRILLED SHAFT LENGTH (6) (FEET)			
				24-A	30-A	30-B	36-A
MEDIAN / (5)		24 A	1	6'			
N.W. CORNER / (4)		30 A	1		11'		
TOTAL DRILLED SHAFT LENGTHS							

GENERAL NOTES :

DESIGN CONFORMS TO 1975 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS AND INTERIM REVISIONS THERETO.
 REINFORCING STEEL SHALL CONFORM TO ITEM 440.
 CONCRETE SHALL BE CLASS C.
 THREADS FOR ANCHORE BOLTS AND NUTS SHALL BE ROLLED OR CUT THREADS OF UNIFIED NATIONAL COARSE THREAD SERIES EXCEPT FOR A193B7 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 A193B7 OR A687. GALVANIZE OR COAT WITH ZINC-RICH PAINT A MINIMUM OF THE UPPER 14 INCHES OF ALL ANCHORE 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.

John G. Eck
01/16/93

AS BUILTS
 I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.

John G. Eck
9-12-92

FOUNDATION SUMMARY						
BELTLINE RD. EAST OF MARSH LN.						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	8/24/92	NTS		92023	T7