

ARM LENGTH	ROUND POLES			FOUNDATION TYPE
	D8	D19	# THK.	
FT.	IN.	IN.	IN.	
20	10.0	7.5	.179	30-A
24	11.0	8.5	.179	30-A
28	11.5	9.0	.179	30-A
32	12.0	9.5	.179	30-A
36	12.5	10.0	.179	30-A
40	12.0	9.5	.239	30-B
44	12.5	10.0	.239	30-B
48	13.0	10.5	.239	30-B

ARM LENGTH	ROUND ARMS				
	L1	D1	D2	# THK.	RISE
FT.	FT.	IN.	IN.	IN.	
20	19.1	6.5	3.8	.179	1'-9"
24	23.1	7.5	4.3	.179	1'-10"
28	27.1	8.0	4.2	.179	1'-11"
32	31.0	9.0	4.7	.179	2'-1"
36	35.0	9.5	4.6	.179	2'-4"
40	39.0	9.5	4.1	.239	2'-8"
44	43.0	10.0	4.1	.239	2'-11"
48	47.0	10.5	4.1	.239	3'-4"

D8 = POLE BASE O.D.
D19= POLE TOP O.D. W/OUT LUMINAIRE
D1 = ARM BASE O.D.
D2 = ARM END O.D.
L1 = SHAFT LENGTH
L = NOMINAL ARM LENGTH
THICKNESS SHOWN ARE MINIMUMS, THICKER MATERIALS MAY BE USED.

SHIPPING PARTS LIST

POLES			
NOMINAL ARM LENGTH	19' POLES WITHOUT LUMINAIRE		
	SHIP EACH POLE WITH THE FOLLOWING HARDWARE ATTACHED : ENLARGED HAND HOLE, POLE CAP, FIXED ARM CONNECTION BOLTS AND WASHERS.		
FT.	DESIGNATION	QUANTITY	
20	20-80		
24	24-80		
28	28-80		
32	32-80		
36	36-80		
40	40-80		
44	44-80		
48	48-80		

TRAFFIC SIGNAL ARMS 1 PER POLE						
NOMINAL ARM LENGTH	TYPE I ARM (1 SIGNAL)		TYPE II ARM (2 SIGNAL)		TYPE III ARM (3 SIGNAL)	
	SHIP EACH TYPE I ARM WITH THE FOLLOWING HARDWARE ATTACHED : 1 CGB CONNECTOR		SHIP EACH TYPE II ARM WITH THE FOLLOWING HARDWARE ATTACHED : 1 BRACKET ASSEMBLY AND 2 CGB CONNECTOR		SHIP EACH TYPE III ARM WITH THE FOLLOWING HARDWARE ATTACHED : 2 BRACKET ASSEMBLY AND 3 CGB CONNECTOR	
FT.	DESIGNATION	QUANTITY	DESIGNATION	QUANTITY	DESIGNATION	QUANTITY
20	20 I -80		20 II -80			
24	24 I -80		24 II -80			
28	28 I -80		28 II -80		28 III -80	
32			32 II -80		32 III -80	
36			36 II -80		36 III -80	
40					40 III -80	
44					44 III -80	
48					48 III -80	

ANCHOR BOLT ASSEMBLIES 1 PER POLE			
ANCHOR BOLT DIAMETER	ANCHOR BOLT LENGTH	EACH ANCHOR BOLT ASSEMBLY CONSISTS OF THE FOLLOWING: TOP AND BOTTOM TEMPLATES, 4 ANCHOR BOLTS, 8 NUTS, 8 FLAT WASHERS, 4 LOCK WASHERS AND 4 NUT ANCHOR DEVICES (TYPE 2) PER STANDARD DRAWING 10.	
		QUANTITY	TEMPLATES MAY BE REMOVED FOR SHIPMENT.
1-1/2"	3'-4"		
1-3/4"	3'-10"		

* SUPPLY "OPTION A" UNLESS OTHERWISE NOTED.

GENERAL NOTES :

DESIGN CONFORMS TO 1975 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS AND INTERIM SPECIFICATIONS THERETO. DESIGN WIND SPEED EQUALS 80 MPH PLUS A 1.3 GUST FACTOR.
THE SPECIFIED LUMINAIRE LOAD APPLIED AT THE END OF THE LUMINAIRE ARM EQUALS 75 LBS. VERTICAL DEAD LOAD PLUS THE HORIZONTAL WIND LOAD ON AN EFFECTIVE PROJECTED AREA OF 1.5 SQ.FT. THE SPECIFIED SIGNAL LOAD APPLIED AT THE END OF THE TRAFFIC SIGNAL ARM EQUALS 180 LBS. VERTICAL DEAD LOAD PLUS THE HORIZONTAL WIND LOAD ON AN EFFECTIVE PROJECTED AREA OF 32.4 SQ.FT. (ACTUAL AREA TIMES DRAG COEFFICIENT).
FABRICATION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND WITH THE DETAILS, DIMENSIONS, AND WELD PROCEDURES SHOWN HEREIN. WELD REFERENCES CALL FOR PREAPPROVED WELD PROCEDURES WHICH THE FABRICATOR MUST OBTAIN PRIOR TO FABRICATION. MISCELLANEOUS WELDS WHICH DO NOT CALL FOR PREAPPROVED WELD PROCEDURES ARE NEVERTHELESS SUBJECT TO REJECTION FOR POOR WORKMANSHIP, MATERIALS, FABRICATION TOLERANCES, AND SHIPPING PRACTICES SHALL MEET THE REQUIREMENTS OF THIS SHEET AND THE SPECIFICATIONS.
UNLESS OTHERWISE NOTED, ALL PARTS SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS.
SPECIAL DESIGNS REQUIRE SUBMISSION OF SHOP DRAWINGS IN ACCORDANCE WITH THE ITEM "STEEL STRUCTURES".
ALL MAST ARMS 35' AND GREATER IN LENGTH SHALL HAVE DAMPENING PLATES INSTALLED.

THESE PLANS HAVE BEEN REVISION TO CONFORM WITH THE RECORDS
Tom Simey
DATE 10-28-92

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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DESIGN BY: BDJ DATE: 2-14-92
DRAWN BY: SAM DATE: 2-14-92
CHECKED BY: BDJ DATE: 2-14-92
APPROVED BY: _____ DATE: _____



SINGLE MAST ARM ASSEMBLIES
(80 MPH WIND ZONE)

Scale : NONE
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SHEET
10
OF
19
91268-10