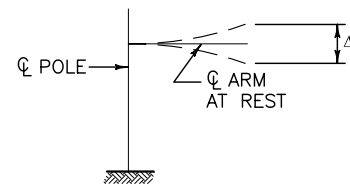
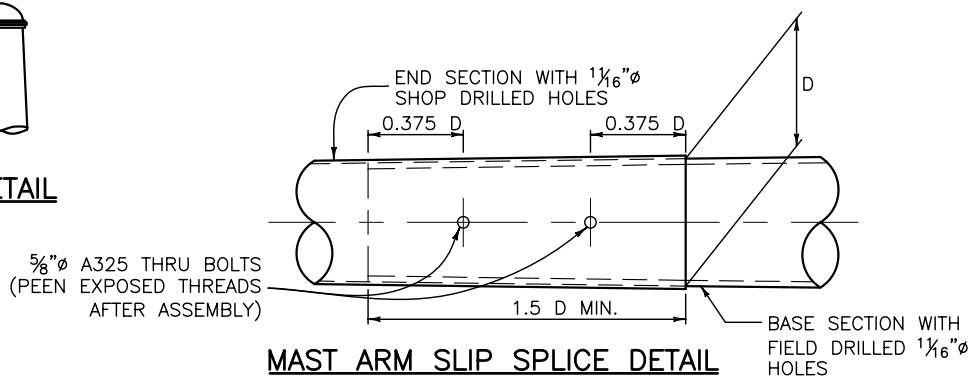
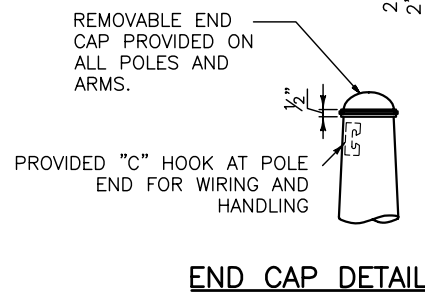
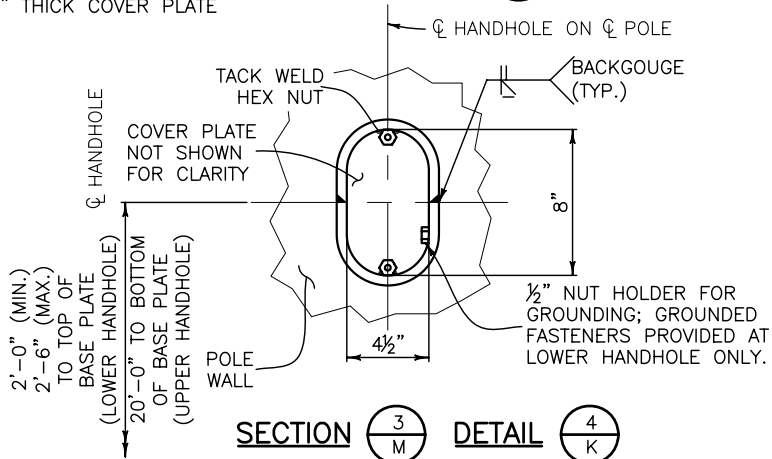
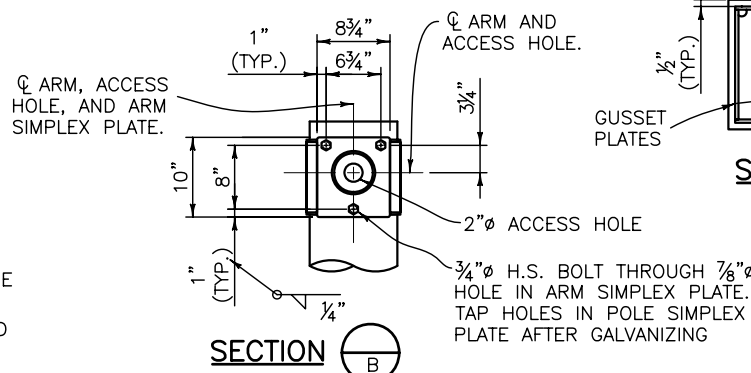
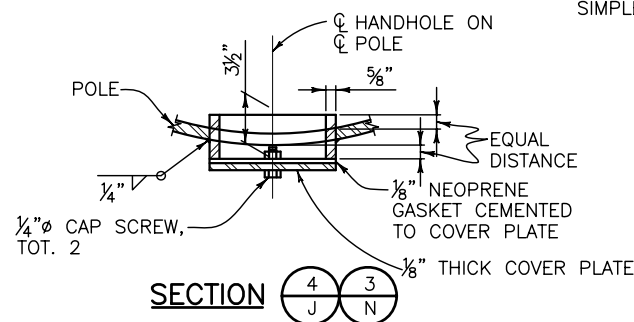
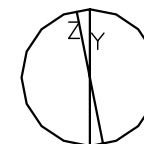
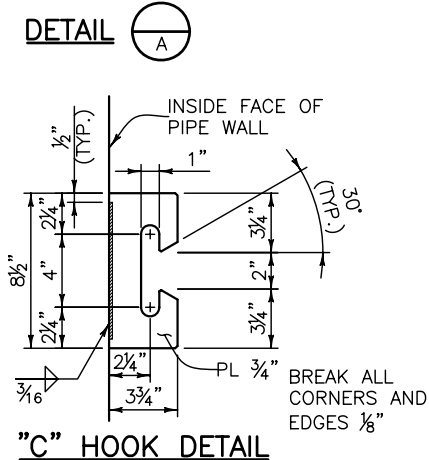
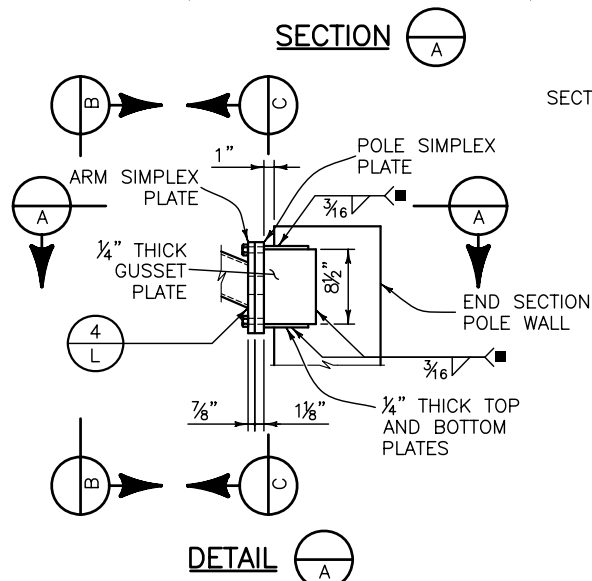
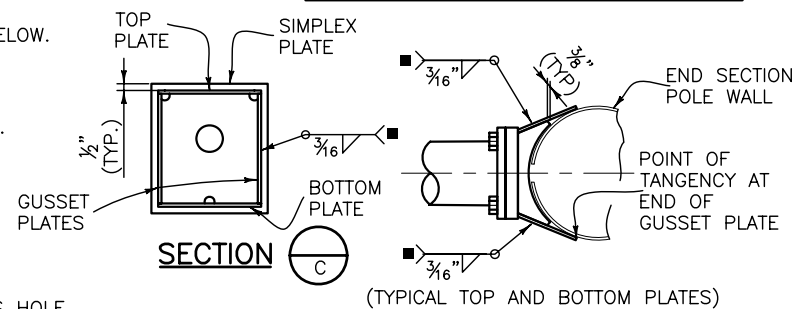


MAST ARM LENGTH (L) (FT.)	MAST ARM DATA								GALLOPING DEFLECTION LIMITS (Δ) (IN) •
	BASE SECTION *				END SECTION ♦				
	LENGTH (FT.)	TIP ϕ (IN.)	TRUNK ϕ (IN.)	THK. (IN.)	LENGTH (FT.)	TIP ϕ (IN.)	TRUNK ϕ (IN.)	THK. (IN.)	
25	23.92	6.65	10.00	0.2391	N.A.	N.A.	N.A.	N.A.	+
35	33.92	7.50	12.25	0.2391	N.A.	N.A.	N.A.	N.A.	+
45	25.16	9.73	13.25	0.3125	20.00	7.46	10.26	0.1793	6"
55	25.34	11.20	14.75	0.3125	30.00	7.56	11.76	0.1793	11"

- * BASE SECTION LENGTH INCLUDES THE SPLICE LENGTH AS PER THE "MAST ARM SLIP SPLICE DETAIL" BELOW.
- ♦ SEE GENERAL NOTE 26 ON SHEET 1 OF 5.
- SEE GENERAL NOTE 28 ON SHEET 1 OF 5.
- + DEFLECTION TOO SMALL TO MEASURE.
- STOP ALL WELDS $\frac{1}{2}$ " SHORT OF PLATE EDGES AND BOLT HOLES.

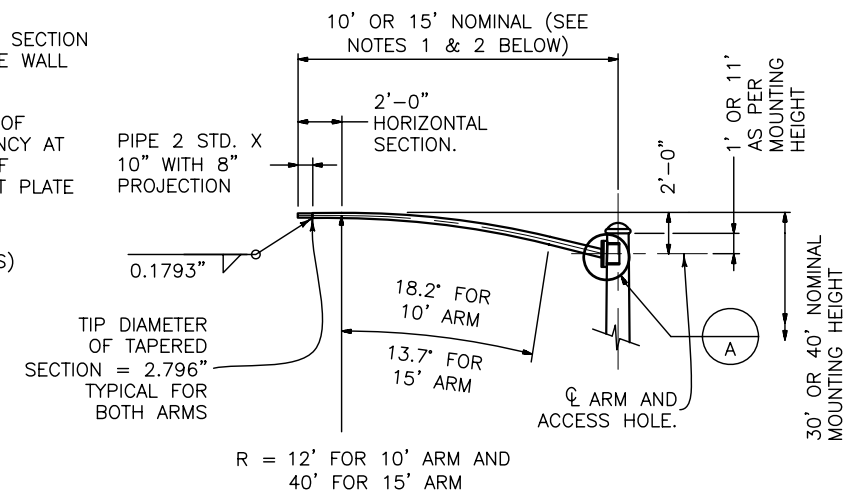


GALLOPING DEFLECTION LIMITS



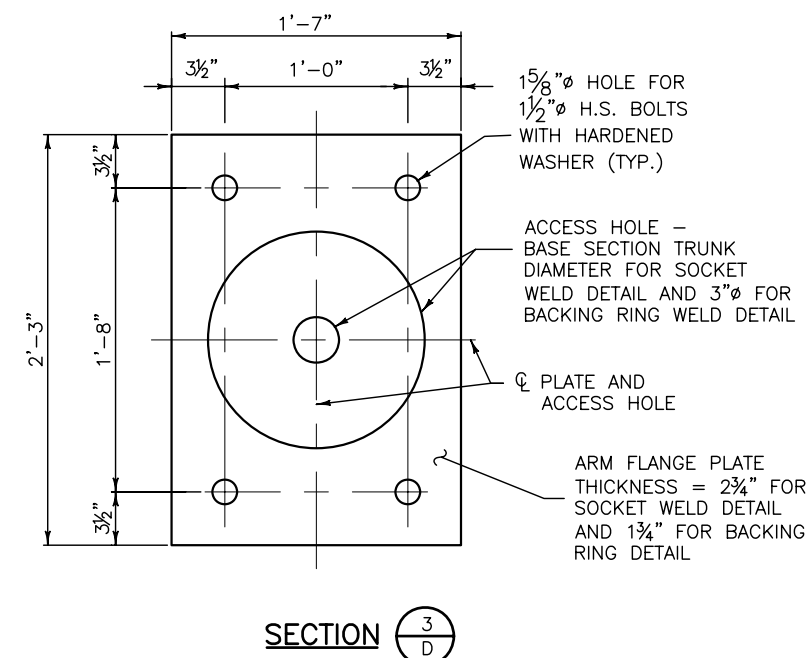
Y = DIAMETER OF A ROUND TUBE.
Z = PERPENDICULAR DISTANCE BETWEEN FLATS.
Y AND Z ARE OUTSIDE DIAMETER DIMENSIONS.
Z/Y RATIO MUST BE .98 MINIMUM.

OPTIONAL MULTI-SIDED POLE OR MAST ARM



LUMINAIRE ARM NOTES

- 10' LUMINAIRE ARM SHAFT: WALL THICKNESS = 0.1793"; LINEAR TAPER = 0.14 IN./FT.; DIAMETER AT ARM SIMPLEX PLATE = 4.066".
- 15' LUMINAIRE ARM SHAFT: WALL THICKNESS = 0.1793"; LINEAR TAPER = 0.14 IN./FT.; DIAMETER AT ARM SIMPLEX PLATE = 4.679".



Computer File Information	
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Date:	Comments
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(R-X)	
(R-X)	

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Safety & Traffic Engineering Branch KCM

ALTERNATE TRAFFIC SIGNAL INSTALLATION DETAILS

Issued By: Traffic Engineering Unit July 4, 2006

STANDARD PLAN NO.

S-614-40A

Sheet No. 2 of 5