POLE DATA TABLE									
POLE DESIGNATION	ARM LENGTH (FT)	BASE DIA. (IN)	THICKNESS	SQUARE (IN)	BOLT CIRCLE (IN)	BASE PL THICKNESS (IN)	ANCHOR BOLT DIA x L (INxIN)	ANCHOR PL SQ x THK (INxIN)	
CCSM1	<u><15</u>	12	0.1875	18.5	18.0	2.0	2.0x48	5.75x1	
CCSM2	16-25	13	0.1875	18.5	18.0	2.0	2.0x48	5.75×1	
CCSM3	26-35	14	0.25	20.5	20.0	2.25	2.25x48	5.75×1	
CCSM4	36-45	15	0.3125	20.5	20.0	2.25	2.25×48	5.75×1	
CCSM5	46-60	17	0.375	24.0	23.0	2.5	2.75×48	7x1.13	
CCSM1L	<u><15</u>	12	0.25	18.5	18.0	2.0	2.0x48	5.75×1	
CCSM2L	16-25	13	0.25	19.0	18.0	2.0	2.25x48	5.75x1	
CCSM3L	26-35	14	0.3125(1)	20.5	20.0	2.25	2.25x48	5.75x1	
CCSM4L	36-45	15	0.3125(1)	22.5	22.0	2.25	2.5×48	6.38x1.13	
CCSM5L	46-60	17	0.375(1)	24.0	23.0	2.5	2.75x48	7x1.13	
(1) REDUCE SHAFT THICKNESS TO 0.25" 20' FROM BASE									

MAST ARM DATA TABLE									
ARM LENGTH (FT)	ROUND SEC BASE DIA. (IN)	THICKN-	SQUARE (IN)	BOLT CIRCLE (IN)	ARM PL THICKNES (IN)	POLE PL THICKNESS (IN)	BOLT DIAxL (INxIN)		
15.0	6.0	0.1875	12	12	1.5	1.25	1.25x3		
20.0	8.0	0.1793	12	12	1.5	1.25	1.25x3		
25.0	9.0	0.2391	12	12	1.5	1.25	1.25x3		
30.0	11.0	0.2391	14	14	1.75	1.5	1.25x3.5		
35.0	11.0	0.3125	14	14	1.75	1.5	1.25x3.5		
40.0	12.0	0.3125	17	17	2.0	1.5	1.5x3.5		
45.0	13.0	0.375	17	17	2.0	1.5	1.5x3.5		
50.0	14.0	0.375(1)	20	19.5	2.25	1.75	1.75x4		
55.0	15.0	0.375(1)	20	19.5	2.25	1.75	1.75x4		
60.0	16.0	0.375(1)	21	21.0	2.25	1.75	1.75x4		
(1) RE	(1) REDUCE ARM THICKNESS TO 0.25" 20' FROM BASE								

LUMINAIRE ARM DATA TABLE								
ARM LENGTH (FT)	APPROX. RISE (IN)	THICK- NESS (IN)	BASE DIA. (IN)	SQUARE (IN)	BOLT CIRCLE (IN)	ARM PL THICKN- ESS (IN)	POLE PL THICKNESS (IN)	BOLT DIA x L (INxIN)
6.0	18.0	0.1875	4.5	9.0	9.0	1.0	1.0	3/4x2.5
8.0	30.0	0.1875	5.0	9.0	9.0	1.0	1.0	3/4x2.5
10.0	41.0	0.1875	6.0	9.0	9.0	1.0	1.0	3/4x2.5
12.0	53.0	0.1875	6.5	9.0	9.0	1.0	1.0	3/4x2.5
15.0	70.0	0.1875	6.5	9.0	9.0	1.0	1.0	3/4x2.5
20.0	72.0	0.25	6.5	9.0	9.0	1.0	1.0	3/4x2.5
25.0	78.0	0.25	6.5	9.0	9.0	1.0	1.0	3/4×2.5

NOTES:

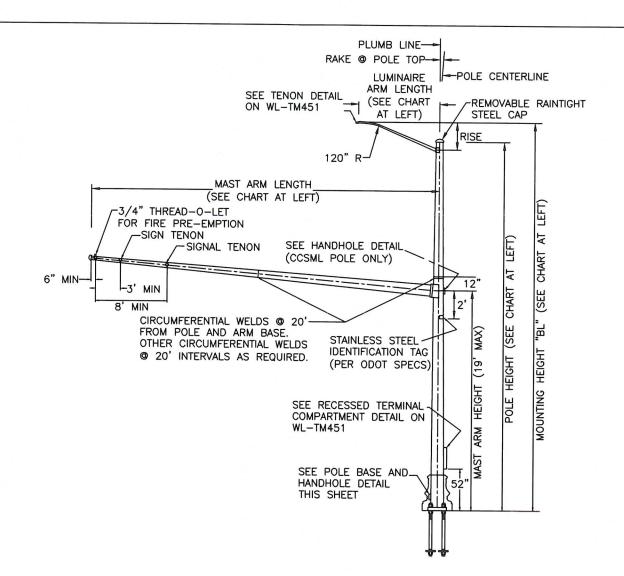
- 1. SIGNAL POLES AND MAST ARMS SHALL BE DESIGNED TO THE FOLLOWING CRITERIA: 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

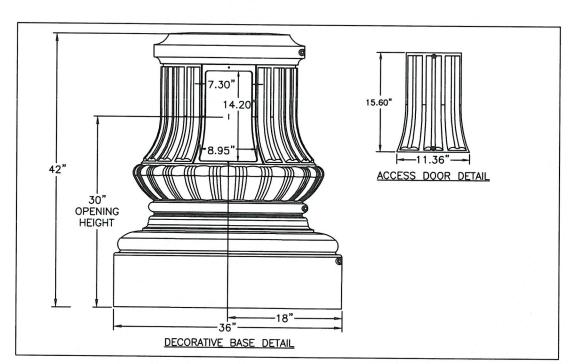
 - -100MPH 3 SECOND GUST -GUST FACTOR G=1.14 -Ir=1.0 (50YR. RECURRENCE INTERVAL)
- -FATIGUE CATEGORY II, NO GALLOPING, TRUCK SPEED = 55 MPH

 2. POLES, MAST ARMS, AND LUMINAIRE ARMS SHALL BE ROUND IN CROSS SECTION AND HAVE A TAPER OF
- 0.14 IN/FT.
- POLE, MAST ARM, AND LUMINAIRE ARMS SHALL BE POWDER COATED MATTE BLACK FABRICATION SHALL CONFORM TO 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTRUAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
- FASTENERS LESS THAN 1/2" SHALL BE STAINLESS STEEL OR BRASS.
 PUSHBUTTONS MOUNTED ON SIGNAL POLE REQUIRING A PUSHBUTTON EXTENDER MUST BE APPROVED BY CITY ENGINEER.
- 7. OTHER MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

 -ALL STEEL IN TUBES, BASE PLATES, FLANGE PLATES & GUSSET PLATES SHALL CONFORM TO ASTM A572 GR50.
 - ANCHOR BOLTS SHALL CONFORM TO ASTM 1307C. NUTS SHALL CONFROM TO ASTM 1563 GR
 DH HEAVY HEX, WASHERS SHALL CONFORM TO ASTM F436 TYPE 1.

 -CONNECTION BOLTS SHALL CONFORM TO ASTM A325, WASHERS SHALL CONFORM TO ASTM
 - F436 TYPE 1.
 - -GALVANIZING SHALL CONFORM TO ASTM A123 & A153.
 - -PIPE TENONS AND WIRE GUIDES SHALL CONFORM TO ASTM A53 GR B.
 - -STAINLESS STEEL RECESSED TERMINAL COMPARTMENT DOOR CONFORM TO AISI SS304.





TRAFFIC ARM,

WL-TM450

SIGNAL POLE, MAST AND LUMINARIES,

Effective Date: 08/01/19

WL-TM450-A.dwg