LEGEND

a.	VEHICLE DISPLAY	f.	LUMINAIRE
b.	MAST ARM MTD. SIGN	g.	PEDESTRIAN DISPLAY
c.	STREET NAME SIGN	h.	TERMINAL CABINET
d.	PRE-EMPT DETECTOR	i.	APS PPB-M
e.	POST MTD. SIGN	j.	HANDHOLE

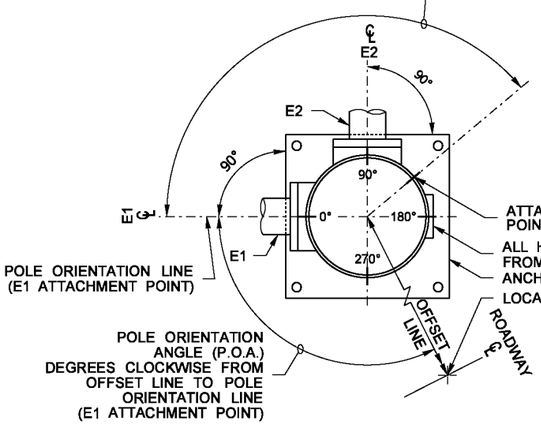
SIGNAL STANDARD IDENTIFICATION TAG DETAIL

STD. NO. XX	SIGNAL STANDARD NO.	STD. NO. 02
SRXXX, MP XXX.XX	STATE ROUTE AND MILE POST NO.	SR97, MP 069.09
MANUFACTURER APPROVED DWG. XXXXXX	APPROVED DRAWING NO.	MANUFACTURER APPROVED DWG. AB12345
FAB. X/XX/XXXX	FABRICATION DATE	FAB. 6/14/2002
		EXAMPLE

TAG NOTES:
CORROSION RESISTANT METAL TAG SECURED WITH (2) 0.125" RIVETS AS FOLLOWS:
- POLE SHAFT - LOCATED WITHIN 6" ABOVE HAND HOLE (TYPE II & III).
- SIGNAL AND LUMINAIRE MAST ARM (TYPE II & III) - LOCATED WITHIN 6" OF THE LUMINAIRE ARM AND THE POLE SHAFT CONNECTION POINT (TYPE III).

TEXT SHALL BE A MINIMUM OF 3/16" HIGH, STAMPED OR EMBOSSED.

MEASURE ATTACHMENT POINT ANGLES CLOCKWISE FROM POLE ORIENTATION LINE (E1 ATTACHMENT POINT) TO THE ATTACHMENT POINT LOCATION

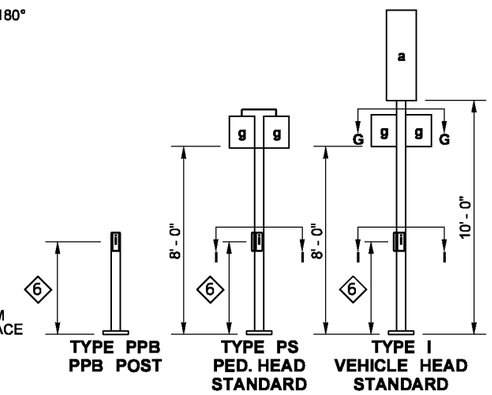


LUMINAIRE MAST ARM X Y Z (ft^3)	
MAST ARM LENGTH	X Y Z (ft^3)
6'	19.8
8'	26.4
10'	33.0
12'	39.6
14'	46.2
16'	52.8

STANDARD TYPE		STANDARD PLAN REFERENCES			
		POLE	FOUNDATION		ELECTRICAL
			STANDARD	CURB	
PPB	FIXED	J-20.10	J-20.10	J-20.11	J-20.10
PPB	BREAKAWAY	J-20.15	J-20.15	J-20.11	J-20.15
PS		J-20.16	J-21.10	J-20.11	J-20.20
I		J-21.15	J-21.10	J-20.11	J-21.20
II, III, SD		N/A	J-26.10, J-26.15	N/A	N/A

POLE ORIENTATION AND ATTACHMENT POINT DETAIL

NOTE:
TYPE E MOUNTS SHALL BE USED FOR PEDESTRIAN DISPLAYS ON TYPE II OR III SIGNAL STANDARDS, WITH THE FOLLOWING EXCEPTION: PEDESTRIAN DISPLAYS MOUNTED ON OCTAGONAL (8 SIDED) SIGNAL STANDARDS AT AN ANGLE OTHER THAN A 45 DEGREE INCREMENT SHALL USE A TYPE A MOUNT FOR TWO PEDESTRIAN DISPLAYS, OR A TYPE B MOUNT FOR A SINGLE PEDESTRIAN DISPLAY.

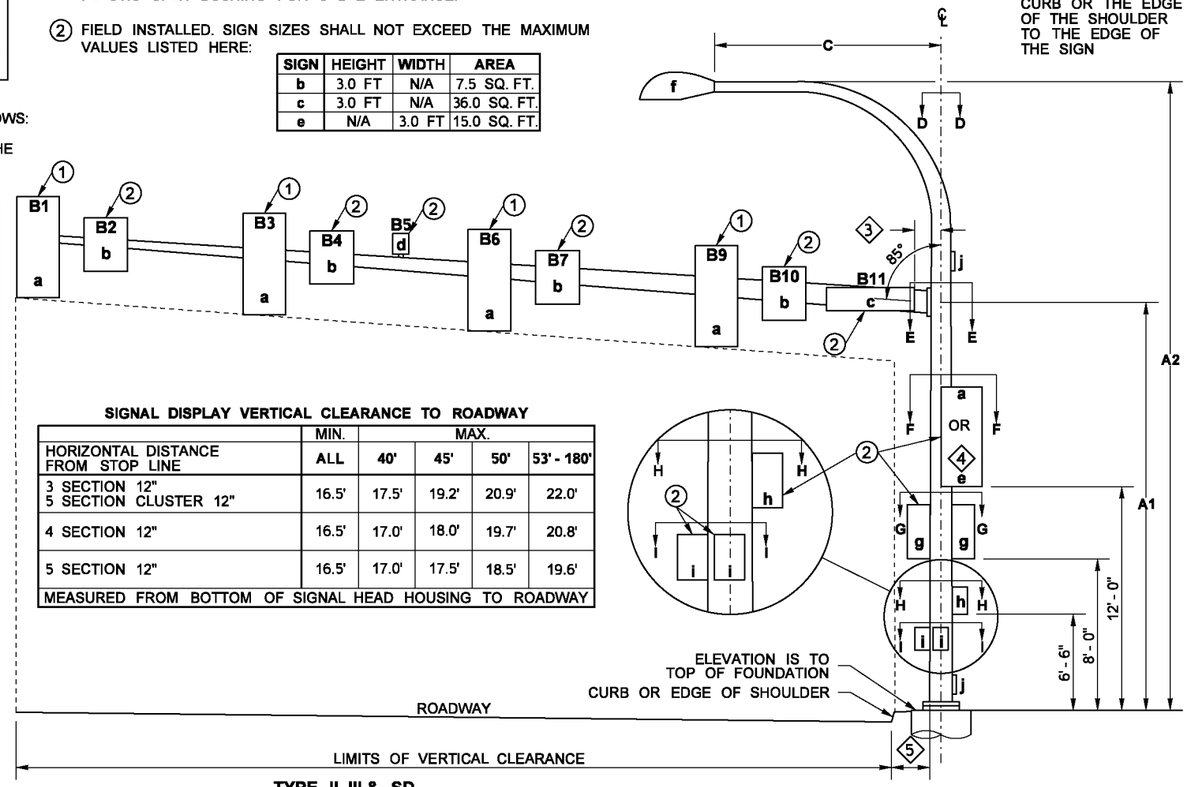


NOTES

1. MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART. FOR TYPE N MOUNTS ONLY, DRILL 1" DIA. HOLE IN MAST ARM AND INSTALL PLASTIC SPLIT BUSHING FOR CABLE ENTRANCE.
2. FIELD INSTALLED. SIGN SIZES SHALL NOT EXCEED THE MAXIMUM VALUES LISTED HERE:

SIGN	HEIGHT	WIDTH	AREA
b	3.0 FT	N/A	7.5 SQ. FT.
c	3.0 FT	N/A	36.0 SQ. FT.
e	N/A	3.0 FT	15.0 SQ. FT.

3. 1'-0" MIN. TO 2'-6" MAX. FROM POLE CENTERLINE TO SIGN EDGE
4. FOR POST MOUNTED SIGNS THERE SHALL BE 2'-0" MIN. FROM THE FACE OF THE CURB OR THE EDGE OF THE SHOULDER TO THE EDGE OF THE SIGN



SIGNAL DISPLAY VERTICAL CLEARANCE TO ROADWAY

	MIN.	MAX.			
HORIZONTAL DISTANCE FROM STOP LINE	ALL	40'	45'	50'	53' - 180'
3 SECTION 12" 5 SECTION CLUSTER 12"	16.5'	17.5'	19.2'	20.9'	22.0'
4 SECTION 12"	16.5'	17.0'	18.0'	19.7'	20.8'
5 SECTION 12"	16.5'	17.0'	17.5'	18.5'	19.6'
MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING TO ROADWAY					

TYPE II, III & SD SIGNAL STANDARD

7. DMS OR VMS IS NOT ALLOWED ON THESE POLES.
5. PLACEMENT SHALL BE 2'-0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER; 3'-0" MIN. FROM FACE OF GUARDRAIL; 4'-0" MIN. FROM CONC. BARRIER TYPE 2 (MEASURED FROM A POINT WHERE THE BARRIER BASE MEETS THE SHOULDER SURFACE (TOE). MEASUREMENT TAKEN FROM TRAFFIC SIDE OF BARRIER; TO FACE OF POLE)

SIGNAL STANDARD DETAIL CHART

STD. No.	SR No.	SR MILE POST	FIELD LOCATION						POLE TYPE	MOUNTING HEIGHT (FT)		SIGNAL MAST ARM DATA																						LUMINAIRE ARM (FT)	CALCULATED POLE XYZ (FT^3)	POLE ATTACHMENT POINT ANGLES (deg.)									FOUNDATION DESIGN XYZ (FT^3)	SOIL BEARING PRESSURE (PSF)	FOUNDATION DEPTH (FT)					REMARKS
												OFFSETS (FT) (Z) (POLE ℄ TO ATTACHMENT POINT)											WINDLOAD AREAS (FT^2) (X)(Y)																					ALTERNATE 1			ALTERNATE 2		
			STATION	OFFSET	LT.	RT.	ELEV.*	P.O.A.		A1	A2	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	C	**	D	E1	E2	F	G1	G2	H	I1	I2			3' RD.	3' SQ.	4' RD.	3' RD.	4' RD.	

***** ELEVATION IS TO TOP OF FOUNDATION. FIELD VERIFY ELEVATION PRIOR TO ORDERING SIGNAL STANDARDS.

****** CALCULATED POLE XYZ (FT^3) IS THE SUM OF THE TOTAL XYZ (FT^3) FOR THE SIGNAL ARM AND THE XYZ (FT^3) FOR THE LUMINAIRE ARM (IF PRESENT).

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\02-PSL Work in Progress\Bill\IS-13\a\IS-13.DGN				REGION NO.	STATE	FED.AID PROJ.NO.		Plot 1
TIME	10:55:47 AM				10	WASH			PLAN REF NO
DATE	1/11/2016				JOB NUMBER				IS-13
PLOTTED BY	berensb								
DESIGNED BY									SHEET 1 OF 1 SHEETS
ENTERED BY									
CHECKED BY					CONTRACT NO.		LOCATION NO.		
PROJ. ENGR.									
REGIONAL ADM.		REVISION	DATE	BY					

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation