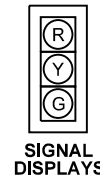


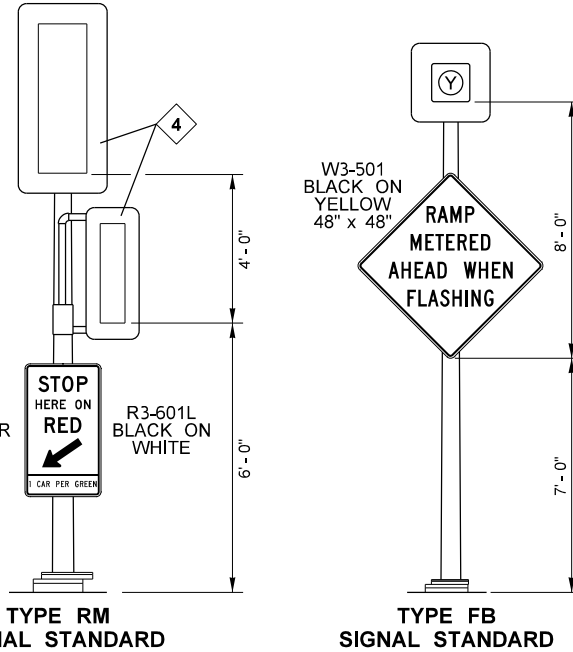
**SIGNAL STANDARD NOTES:**

- VARIABLE/DYNAMIC MESSAGE SIGNS MAY NOT BE INSTALLED ON THESE POLES.
- POLE ORIENTATION ANGLE IS MEASURED BETWEEN THE STATION OFFSET LINE AND THE CENTER OF THE BASEPLATE FRONT. THE POLE HAND HOLE IS ALWAYS AT THE BACK OF THE BASEPLATE (180° ON THE BASEPLATE).
- B# POSITIONS HAVE TENONS INSTALLED AT POSITIONS SHOWN IN CHART UNLESS TYPE N MOUNT REQUIRED.
- B# POSITIONS REQUIRING TYPE N MOUNTS AND ALL OTHER MAST ARM WIRED DEVICES SHALL HAVE MAST ARM FIELD DRILLED AND PLASTIC SPLIT BUSHING INSTALLED FOR CABLE ENTRANCE.
- S# POSITIONS SHALL HAVE SIGNS FIELD INSTALLED. SEE STANDARD PLAN G-30.10 FOR DETAILS.
- FACE OF POLE SHALL BE A MINIMUM OF THE REQUIRED DEFLECTION DISTANCE SHOWN IN DESIGN MANUAL EXHIBIT 1610-3 FROM THE APPLICABLE BARRIER - OR 2'-0" FROM FACE OF CURB, EDGE OF SHOULDER, OR BACK OF BARRIER - WHICHEVER IS LONGER.
- SEE STANDARD PLAN J-20.01 FOR REQUIRED POLE ID TAGS.
- USE OF TYPE III SIGNAL STANDARD REQUIRES USE OF TYPE BX TRANSFORMER CABINET TO PROVIDE SINGLE SOURCE OF POWER TO ALL EQUIPMENT ON POLE.



**SIGNAL DISPLAY NOTES**

- ALL VEHICLE HEADS SHALL BE ALUMINUM.
- ALL LENSES SHALL BE LED TYPE.
- DISPLAY SIZES SHALL BE:  
- 8-INCH FOR FLASHING BEACONS AND THE LOWER DISPLAY OF TYPE RM SIGNALS.  
- 12-INCH FOR ALL OTHER DISPLAYS.
- ALL DISPLAYS SHALL INCLUDE ALUMINUM VISORS OF THE FOLLOWING TYPE:  
- CAP TYPE FOR ALL 8-INCH DISPLAYS  
- TUNNEL TYPE FOR ALL 12-INCH DISPLAYS
- INSTALL 5-INCH WIDE BACKPLATES UNLESS OTHERWISE SPECIFIED IN THE PLANS. DO NOT INSTALL RETROREFLECTIVE TAPE ON BACKPLATES.



**NON-WINDLOAD DEVICES**

LOC.	DEVICE	OFFSET
X1	EVP DET.	00.0
X2	RADAR DET.	00.0

R3-601R BLACK ON WHITE

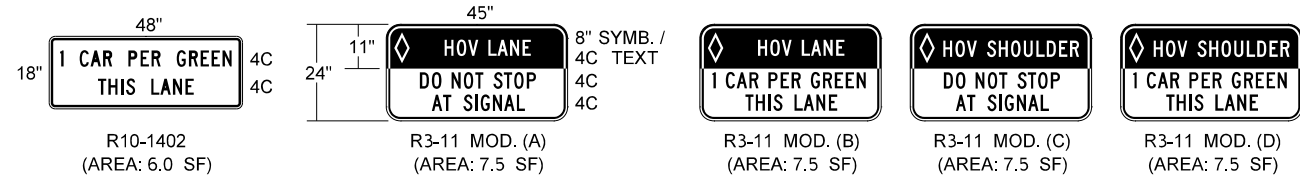


OR

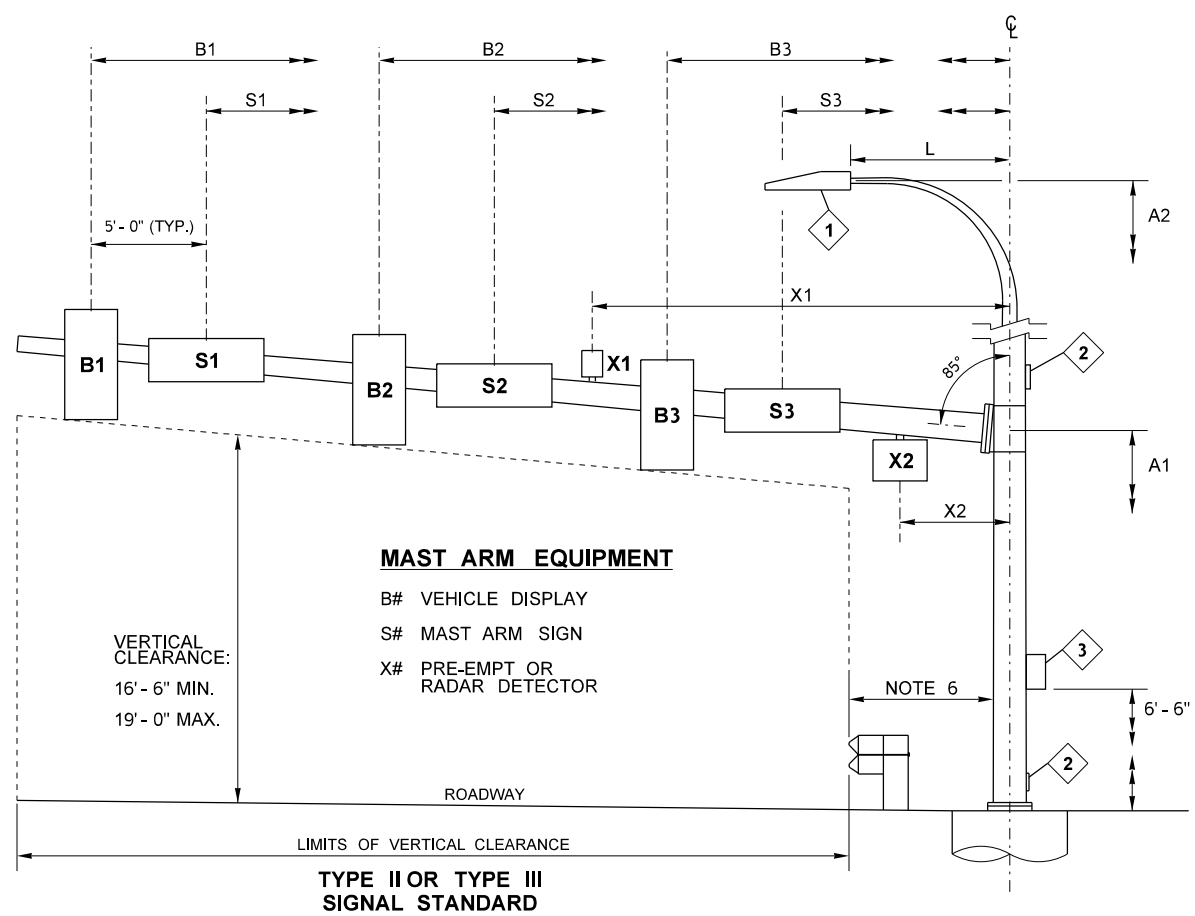


R3-601L BLACK ON WHITE

STANDARD TYPE	STANDARD PLAN REFERENCES		
	POLE	FOUNDATION	ELECTRICAL
RM	J-22.15	J-21.10	J-22.16
FB	J-21.16	J-21.10	J-21.17
II	N/A	J-26.10, J-26.15	N/A

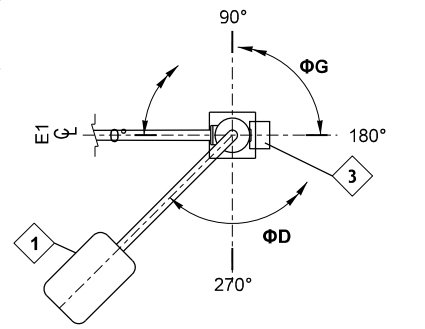


**RAMP METER OVERHEAD SIGN OPTIONS**  
(ALL SIGNS BLACK AND WHITE)



**MAST ARM EQUIPMENT**

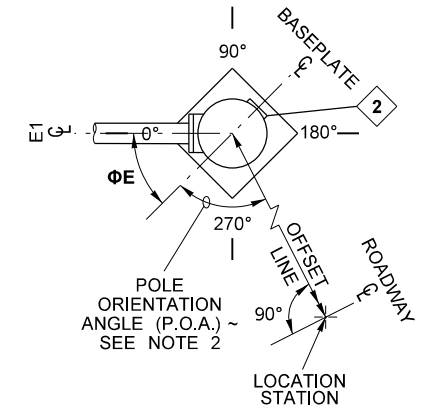
- B# VEHICLE DISPLAY
- S# MAST ARM SIGN
- X# PRE-EMPT OR RADAR DETECTOR



**POLE MOUNTED EQUIPMENT ORIENTATION DETAIL**

**KEY ITEMS**

#	ITEM
1	LUMINAIRE
2	HAND HOLE
3	TERMINAL CABINET
4	APS PPB-M (FIELD ORIENT)



**POLE ORIENTATION AND E1 ATTACHMENT POINT DETAIL**

**SIGNAL STANDARD DETAIL CHART**

STD. No. #	SR #	SR MILE POST	FIELD LOCATION						POLE TYPE	MOUNTING HEIGHT (FT)		SIGNAL MAST ARM DATA												LUMINAIRE ARM (FT)	CALCULATED POLE XYZ (FT³)	POLE ATTACHMENT POINT Φ ANGLES (DEGREES)			FOUNDATION DESIGN XYZ (FT³)	SOIL BEARING PRESSURE (PSF)	FOUNDATION DEPTH (FT)						REMARKS					
			STATION	OFFSET	LT.	RT.	ELEV.*	P.O.A.		A1	A2	OFFSETS (FT) (Z) (POLE C TO ATTACHMENT POINT)						WINDLOAD AREAS (FT²) (X)(Y)								ALTERNATE 1		ALTERNATE 2														
												B1	S1	B2	S2	B3	S3	B1	S1	B2	S2	B3	S3			3' RD.	3' SQ.	4' RD.			3' RD.	4' RD.										
00	000	000.00	000+00	00.0	X	X	000	000	000	000	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00	0000	000	000	000	0000	0000	00	00	00	00	00	00	00	00	XXXXXX

\*ELEVATION IS TO TOP OF FOUNDATION. FIELD VERIFY ELEVATION PRIOR TO ORDERING SIGNAL STANDARDS. IF NO ELEVATION SHOWN, ELEVATION SHALL MATCH TOP OF ROAD SHOULDER.

\*\*CALCULATED POLE XYZ (FT³) IS THE SUM OF THE TOTAL XYZ (FT³) FOR THE SIGNAL ARM AND THE XYZ (FT³) FOR THE LUMINAIRE ARM (IF PRESENT).

FILE NAME: C:\Storage\01 Manual Revisions\02 Std Details\IS-13\2022\IS-13A.dgn TIME: 09:12:43 DATE: 4/19/2023 PLOTTED BY: Jacksfl DESIGNED BY: ENTERED BY: CHECKED BY: PROJ. ENGR. REGIONAL ADM.	REGION NO.: 10 STATE: WASH JOB NUMBER: CONTRACT NO.: LOCATION NO.:	FED.AID PROJ.NO.:  DATE: P.E. STAMP BOX	 Washington State Department of Transportation	Plot 1 PLAN REF NO: IS-13A SHEET OF SHEETS
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