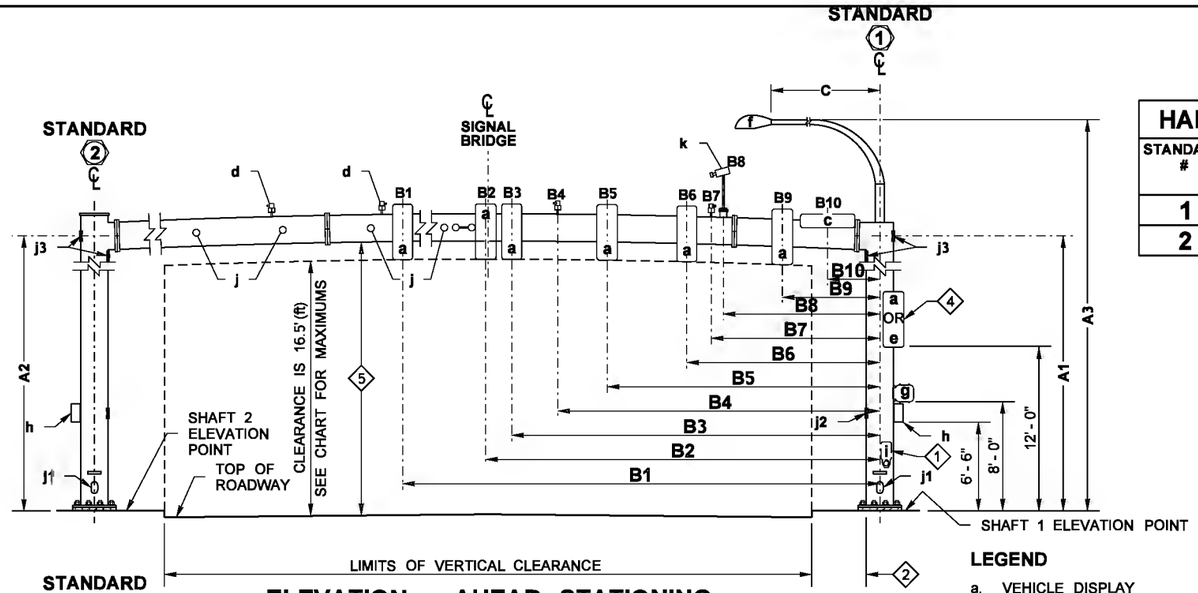
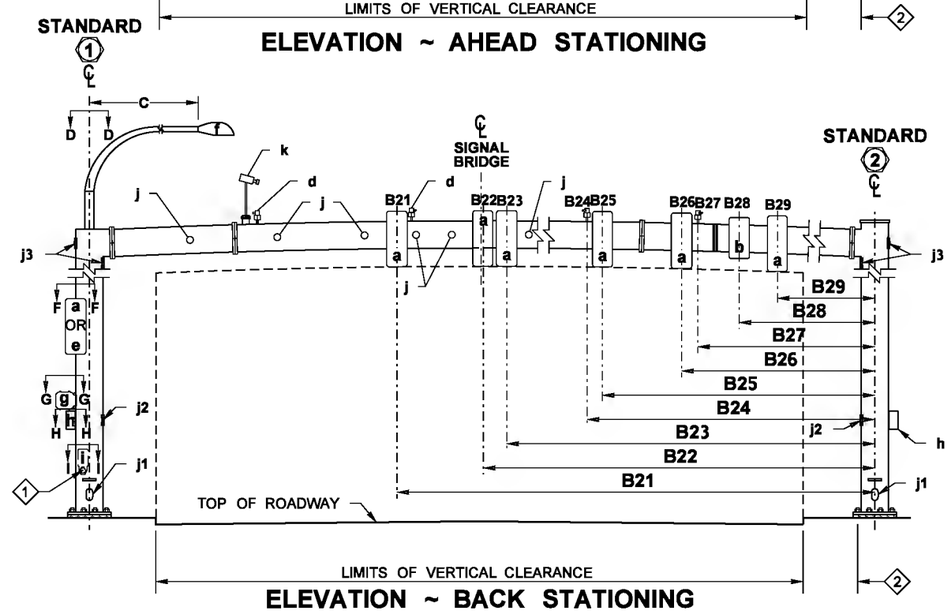


ELEVATION ~ AHEAD STATIONING



ELEVATION ~ BACK STATIONING

LEGEND

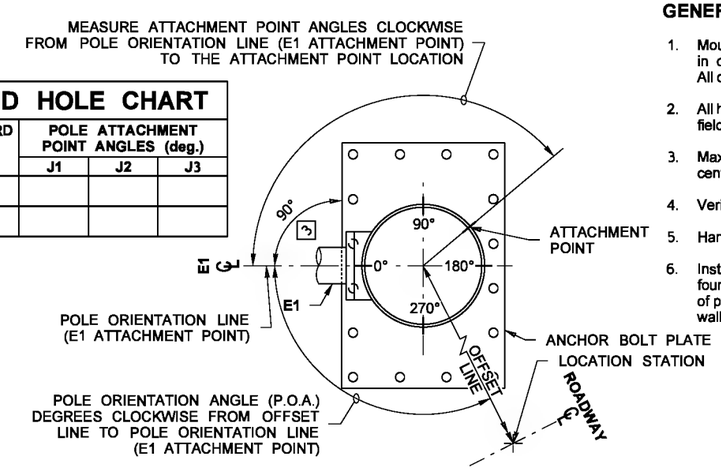
a. VEHICLE DISPLAY
b. MAST ARM-MOUNTED SIGN
c. STREET NAME SIGN
d. PREEMPT DETECTOR
e. POST-MOUNTED SIGN
f. LUMINAIRE
g. PEDESTRIAN DISPLAY
h. TERMINAL CABINET
i. APS ASSEMBLY
j. HAND HOLE
k. CAMERA

KEY NOTES

1. HEIGHT OF PEDESTRIAN PUSHBUTTON: 42" (IN)
2. PLACEMENT SHALL BE 4' - 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
3. DMS OR VMS IS NOT ALLOWED ON THIS SIGNAL BRIDGE.
4. FOR SHAFT-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
5. MINIMUM SIGNAL BRIDGE VERTICAL CLEARANCE 20' - 0" ABOVE THE ROADWAY

HAND HOLE CHART

STANDARD #	POLE ATTACHMENT POINT ANGLES (deg.)		
	J1	J2	J3
1			
2			



POLE ORIENTATION AND ATTACHMENT POINT DETAIL

GENERAL NOTES

1. Mounting Coupling shall be installed at offset distance indicated in chart for all signal heads installed on the signal bridge beam. All other hardware installed on the beam is to be field installed.
2. All hardware installed on the shafts of the signal bridge is to be field installed.
3. Maximum length of the signal bridge is 200' (ft), measured from centerline of Standard # 1 to centerline of Standard # 2.
4. Verify hand hole locations with the engineer prior to fabrication.
5. Hand holes shall be installed at the time of fabrication.
6. Install hand hole on outside of the post at beam level when foundation is cast at grade. Install hand hole on traffic side of post when signal bridge is mounted on bridge, retaining wall or other structure.

SIGN NOTES

(1) Field installed. Sign sizes shall not exceed the Maximum Values listed here:

SIGN	HEIGHT (FEET)	WIDTH (FEET)	AREA (SQ. FT.)
b	3.0	N/A	7.5
c	4.0	12.0	48.0
e	N/A	3.0	15.0

This is not intended as part of the detail.

Designer Note: Items "B11 - B12, B31 - B32" are included if project needs warrant their use. The table is meant to be used as a template, add or delete columns to suit project needs.

SIGNAL BRIDGE STANDARD IDENTIFICATION TAG DETAIL

STD. NO. XX ---------- SIGNAL STANDARD NO.
SRXXX, MP XXX.XX ---------- STATE ROUTE AND MILEPOST NO.
MANUFACTURER DWG. XXXXXX ---------- DRAWING NUMBER
FAB. X/XX/XXXX ---------- FABRICATION DATE

EXAMPLE

STD. NO. 02
SR97, MP 069.09
MANUFACTURER
DWG. AB12345
FAB. 6/14/2002

NOTE:

CORROSION-RESISTANT METAL TAG SECURED WITH (2) 0.125" (IN) RIVETS AS FOLLOWS:

- POLE SHAFT - LOCATED WITHIN 6" (IN) ABOVE HAND HOLE.
- SIGNAL BRIDGE AND LUMINAIRE MAST ARM - LOCATED WITHIN 6" (IN) OF THE LUMINAIRE ARM AND THE POLE SHAFT CONNECTION POINT.
- TEXT SHALL BE A MINIMUM OF 3/16" (IN) HIGH, STAMPED OR EMBOSSED.

SIGNAL DISPLAY VERTICAL CLEARANCE TO ROADWAY

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

SIGNAL BRIDGE DETAIL CHART

STD. No.	SR No.	SR MILE POST	FIELD LOCATION					SHAFT ELEVATION POINT (FT)		A1 (FT)	A2 (FT)	A3 (FT)	SIGNAL BRIDGE BEAM DATA																								LUMINAIRE ARM(FT)	POLE ATTACHMENT POINT ANGLES (deg.)								FDN. DEPTH (FT)	SOIL PSF	REMARKS
													OFFSET DISTANCES (FT) (Z) (POLE ℄ TO ATTACHMENT POINT)												WINDLOAD AREAS (FT)² (X) (Y)																							
			STATION	OFFSET	LT.	RT.	P.O.A.						B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	C	D	F	G1	G2	H1	H2	I1	I2			
1																																																
—	—	—	—	—	—	—	—	—	—	—	—	—	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30	B31	B32	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30	B31	B32	—	—	—	—	—	—	—	—	—	—	—	—
2																																																

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CHECKED BY						
PROJ. ENGR.						
REGIONAL ADM.		REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

Plot 1

PLAN REF NO IS-15

SHEET 1 OF 1 SHEETS