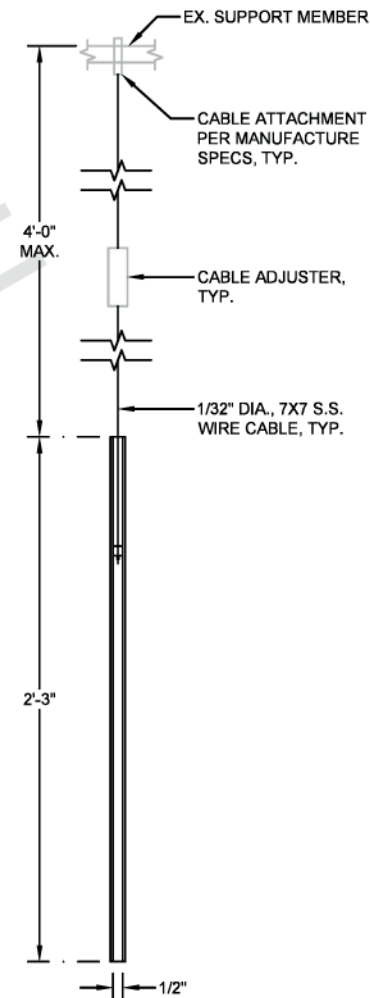


ELEVATION

N.T.S.



SIDE ELEVATION

N.T.S.

Sign Design Based On 2022 OSSC

Job #	JTS_165323
Project	Aisle Markers - Hanging Sign
Job Location	911 N Riverside Ave Medford, OR

ASCE 7-16 CHAPTER 11, 13 SEISMIC DESIGN CRITERIA

Latitude (degrees) :	=	42.335761		
Longitude (degrees) :	=	-122.875158		
Response Spectral Acc. (0.2 sec) S_s :	=		62.80%g	= 0.628g
Response Spectral Acc. (1.0 sec) S_1 :	=		36.20%g	= 0.362g
Soil Site Class		D		
Site Coefficient F_a :		1.297		
Site Coefficient F_v :		2.000		
Max Considered Earthquake Acc. S_{MS} :			$F_a \cdot S_s$	= 0.815
Max Considered Earthquake Acc. S_{M1} :			$F_v \cdot S_1$	= 0.724
@ 5% Damped Design S_{DS} :			$2/3(S_{MS})$	= 0.543
S_{D1} :			$2/3(S_{M1})$	= 0.483

Risk Category = II

Seismic Demands on Nonstructural Components

$F_p = 0.4a_p S_{DS} W_p (1+2z/h)$	
(R_p/I_p)	
$a_p = 2.5$	$R_p = 2.5$
$I_p = 1.0$	
$z = 14$ FT	$h = 14$ FT
$F_p = 0.65 W_p$	
Max $F_p = 1.6 S_{DS} W_p$	= 0.869 W_p
Min $F_p = 0.3 S_{DS} W_p$	= 0.163 W_p
$F_p = 0.65 W_p$	
$W_p = 0.003$	KIPS
$F_p = 0.002$	KIPS

Seismic Load, $E = F_p$ =	0.0020	KIPS
ASD Factored Seismic Load, $0.7 E$ =	0.0014	KIPS

Check 5 PSF Interior Wind Load	5	PSF
Wind loading area of signage	=	4.9949
Design Windforce, F =	$5.00 \times A_s =$	0.02
		KIPS

Loading Comparison

	Seismic		Wind
Total Load	0.001 KIPS	<	0.02 KIPS

Therefore **Wind** Governs

Cable Design

Tension Req'd.	USE	T-304	
$T = 12$	1/32" DIA., 7X7		$T = 50$ (OK)

NOTES :

GENERAL :

- SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.
- PROVIDE ISOLATION OF DISSIMILAR MATERIALS.
- COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.
- THERE IS NO PROTECTION ZONE AS DEFINED IN AISC 341-16.
- PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL / ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.
- SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS
- ALL EXPOSED STEEL TO BE PRIMED & PAINTED (POWDER COAT AS AN OPTION) OR ALTERNATIVELY USE GALVANIZED STEEL.

ANCHORS :

- BRAND NAME APPROVED POST INSTALLED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.

STEEL :

- DESIGN AND FABRICATION ACCORDING TO 2022 OSSC
- PLATE, ANGLE, CHANNEL TEE: ASTM A36
- WIDE FLANGE: ASTM A992
- ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.
- HSS ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A500 GRADE B OR EQUIVALENT.
- ALL ANCHORS BOLTS SHOULD BE: ASTM F1554
- ALL STEEL MACHINED BOLTS SHOULD BE: ASTM A307 OR ASTM A449
- ALL STAINLESS STEEL MACHINED BOLTS SHOULD BE: ASTM A276
- ALL BOLTS TO BE ZINC COATED: ASTM B633
- DEFORMED REINFORCING REBAR: ASTM A615 GRADE 60.

ALUMINUM :

- DESIGN AND FABRICATION ACCORDING TO 2020 ALUM. DESIGN MANUAL
- PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING: ALUMINUM
- ALLOY 6061 - T6 WITH 0.098 LBS PER CUBIC INCH.

WELDING :

- DESIGN AND FABRICATION ACCORDING TO AWS D1.1 / D1.3
- AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.
- E70 XX ELECTRODE FOR SMAW PROCESS.
- E70S XX ELECTRODE FOR GMAW PROCESS.
- ER7 XX ELECTRODE FOR GTAW PROCESS.
- E70T XX ELECTRODE FOR FCAW PROCESS.
- ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHАРY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO ° AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MFG'S. CERTIFICATION.
- ALUMINUM
- DESIGN AND FABRICATION ACCORDING TO AWS D1.2. ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A.5.10.
- FILLER ALLOYS PER TABLES M.9.1 & M.9.2 OF 2020 ALUMINUM DESIGN MANUAL.



EXPIRES: 06/30/2025

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TEL. (661)259-0700 FAX. (661)259-0900

SHEET TITLE:

**AISLE MARKERS
HANGING SIGN**

DRN BY: B.B.	DATE LAST REVISED: Jul 25, 2023	REV. NO.	REV. DATE	REVISED BY
CHK BY: T.J.	PROJ. START DATE: July 19, 2023	1	-/-/-	-
REV BY: T.J.	SCALE: AS SHOWN	2	-/-/-	-
PLOTTED BY: Natalie Chavez	ON 7/25/2023 3:11:24 PM	3	-/-/-	-

PROJECT JOB #: JTS_165323_Aisle Markers_Hanging Sign_N Riverside Ave_Medford OR.dwg

PROJECT LOCATION: AISLE MARKERS
911 N RIVERSIDE AVE
MEDFORD, OR

SHEET #

1 of 1