B-21-0495

City of Puyallup
Application for Sign/Awning Permit

Building Division
333 S. Meridian
Puyallup, WA 98371
Tel: (253) 864-4165 Fax: (253) 840-6678

Parcel #: 0419043117	Site Address: 1501 39th Ave SW
Owner: Puyallup School District	Owner Phone #: 253.841.1301
Owner Address: 302 2nd St SE	City: Puyallup Zip: 98372
Contractor Name: Plumb Signs	Contractor Phone #: 253.473.3323
Contractor Address: 909 S 28th St	City: Tacoma Zip: 98409
WA License #: PLUMBSI077QC Exp. Date:	City Business License #: 990
Contact Person: Emily Hayes	Contact Email: emily@plumbsigns.com
Contact Phone #: 253.473.3323	Fax #:

Site & Sign Information:

FILL OUT ALL SECTIONS COMPLETELY FOR A COMPLETE APPLICATION – INFORMATION IS REQUIRED FOR REVIEW

Is this a corner lot? Yes (●) No ( )

Lineal measurement of street frontage: 2083.6'			
Lineal measurement of side street frontage (if applicable): 2083.6'			Zoning: PF- Public Facilities
Lineal measurement of wall From which sign is attached: N/A			
Lineal measurement of canopy from which sign is attached: N/A			
Lineal measurement of building façades: N/A			
East façade: N/A	West façade: N/A	North façade: N/A	South façade: N/A
Total lineal measurement of all walls facing a public street: N/A			
Total square footage of existing signs on site: N/A			

Sign Type (SUBMIT A SEPARATE APPLICATION FOR EACH SIGN TYPE)

☐ Awning* ☐ Electronic Message ☐ Facade / Wall ☑ Pole Sign ☑ Projecting Sign ☑ Monument
☐ Under Canopy Other: _____

Pole Sign 1 B1			
Total Sign Sq. Ft.: 31.64	Height: 5.58'	Clearance: 6"	Valuation: $500
Pole Sign 2 B1			
Total Sign Sq. Ft.: 31.64	Height: 5.58'	Clearance: 6"	Valuation: $500
~~**Monument Sign 1**~~ B2.1			
Total Sign Sq. Ft.: 16.05	Height: 6.42	Clearance: 6"	Valuation: $300
~~**Monument Sign 2**~~ B3			

REV 08.2019

ALL signs are pole signs (Directionals)

Total Sign Sq. Ft.: 12.55'	Height: 5.58	Clearance: 6"	Valuation: $325
~~Wall Sign 1~~ B3			
Total Sign Sq. Ft.: 12.55'	~~Dimensions:~~ Height: 5.58'	Clearance 6"	Valuation: $325
Wall Sign 2 B4			
Total Sign Sq. Ft.: 22.75'	~~Dimensions:~~ Height: 7"	Clearance 6"	Valuation: $350
~~Wall Sign 3~~ B4			
Total Sign Sq. Ft.: 22.75'	~~Dimensions:~~ Height: 7"		Valuation: $350
~~Projecting Sign~~ B5			
Total Sign Sq. Ft.: 10.69'	~~Dimensions:~~ Height: 4.75'	Clearance 6"	Valuation: $250
~~Canopy Sign~~ B5			
Total Sign Sq. Ft.: 10.69'	Height: 4.75'	Clearance: 6"	Valuation: $250
~~Awning*~~ C5- Quantity (2)			
Total Sign Sq. Ft.: 12.75'	Height: 8.5'	Clearance: 6"	Valuation: $325

*Awnings on buildings located in the Central Business District (CBD) or Central Business District Core (CBD-Core) zones may require a separate design review permit and may be reviewed by the City's Design Review and Historic Preservation Board. Please contact Planning staff by calling (253) 864-4165 to confirm.

CONTRACTORS AFFIDAVIT: I HEREBY MAKE APPLICATION FOR A SIGN PERMIT AND CERIFY THAT OUR BUSINESS IS REGISTERED AS A CONTRACTOR WITH THE STATE OF WASHINGTON AND THAT ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL CODES AND ORDINANCES OF THE CITY OF PUYALLUP.

I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS APPLICATION AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT.

BY LEAVING THE CONTRACTOR INFORMATION SECTION BLANK, I HEREBY CERTIFY FURTHER THAT CONTRACTORS (GENERAL OR SUBCONTRACTORS) WILL NOT BE HIRED TO PERFORM ANY WORK IN ASSOCIATION WITH THIS PERMIT. I ALSO CERTIFY THAT IF I DO CHOOSE TO HIRE A CONTRACTOR (GENERAL OR SUBCONTRACTOR) I WILL ONLY HIRE THOSE CONTRACTORS THAT ARE LICENSED BY THE STATE OF WASHINGTON.

Emily Hayes	Emily Hayes	5 / 20 / 2021
SIGNATURE OWNER / AUTHORIZED AGENT	**PRINT NAME**	**DATE**

MINIMUM SUBMITTAL REQUIREMENTS:

1 (one) copy of signed application

2 (two) copies of site plan drawings for pole and monument signs or 2 (two) copies of elevation drawings for wall signs and awnings

2 (two) copies of sign detail drawings

Plan review fee due at time of application submittal.

2 (two) copies of foundation and structural details for freestanding signs and means for fastening building mounted signs as follows:

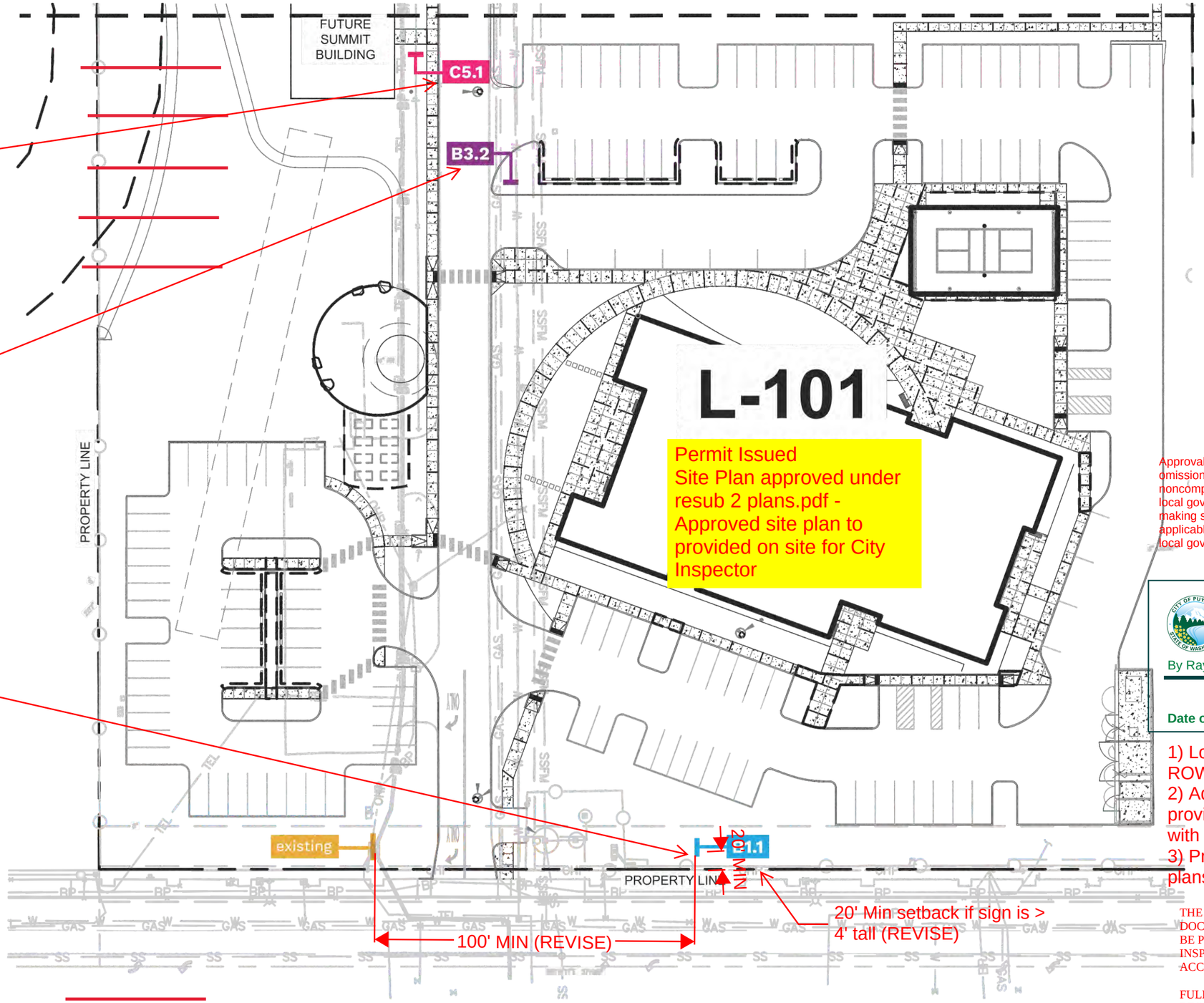
A. Dimensions
B. Weight
C. Material
D. Partial cross sections showing attachment to building, ground and structural members (studs, beam, post, wall) and fastening method (bolts, screws, lags, nails, welds). Provide specific details for attachment to efis systems
E. Size, spacing and number of fasteners.
F. Show all structural components of sign itself (size included)
G. Indicate if the sign is to be lighted, a separate electrical permit is required
H. All freestanding pole signs over 8 feet are required to be designed and stamped by a licensed washington state engineer

B-21-0495

C5.1 shall not be placed over any utilities, particularly the water service or sanitary side sewer service.

B3.2 shall not encroach on the 15' water line easement.

B1.1 is very close to the sight line for the driveway on 39TH AVE SW. Please define and callout the offset from the station to the west and the southern property line on the site plan. Consider moving sign farther north to improve visibility.



Call Before You Dig. It is the law. Dial 811 or call 1-800-424-5555.

Kessler Center Civil Permit: E-19-0574

Refer to the attached standard details, 02.03.02 & 05.02.01, for typical erosion and sedimentation control methods.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

Reviewed for Compliance
Approved for Construction

By Ray Cockerham

B-21-0495

Date of Review 7/21/2021

1) Locations of signs adjacent to ROW must be located by survey
2) Address numbers shall be provided on signs in accordance with Planning Comments.
3) Provide full sized legible color plans on site for inspection.

THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION

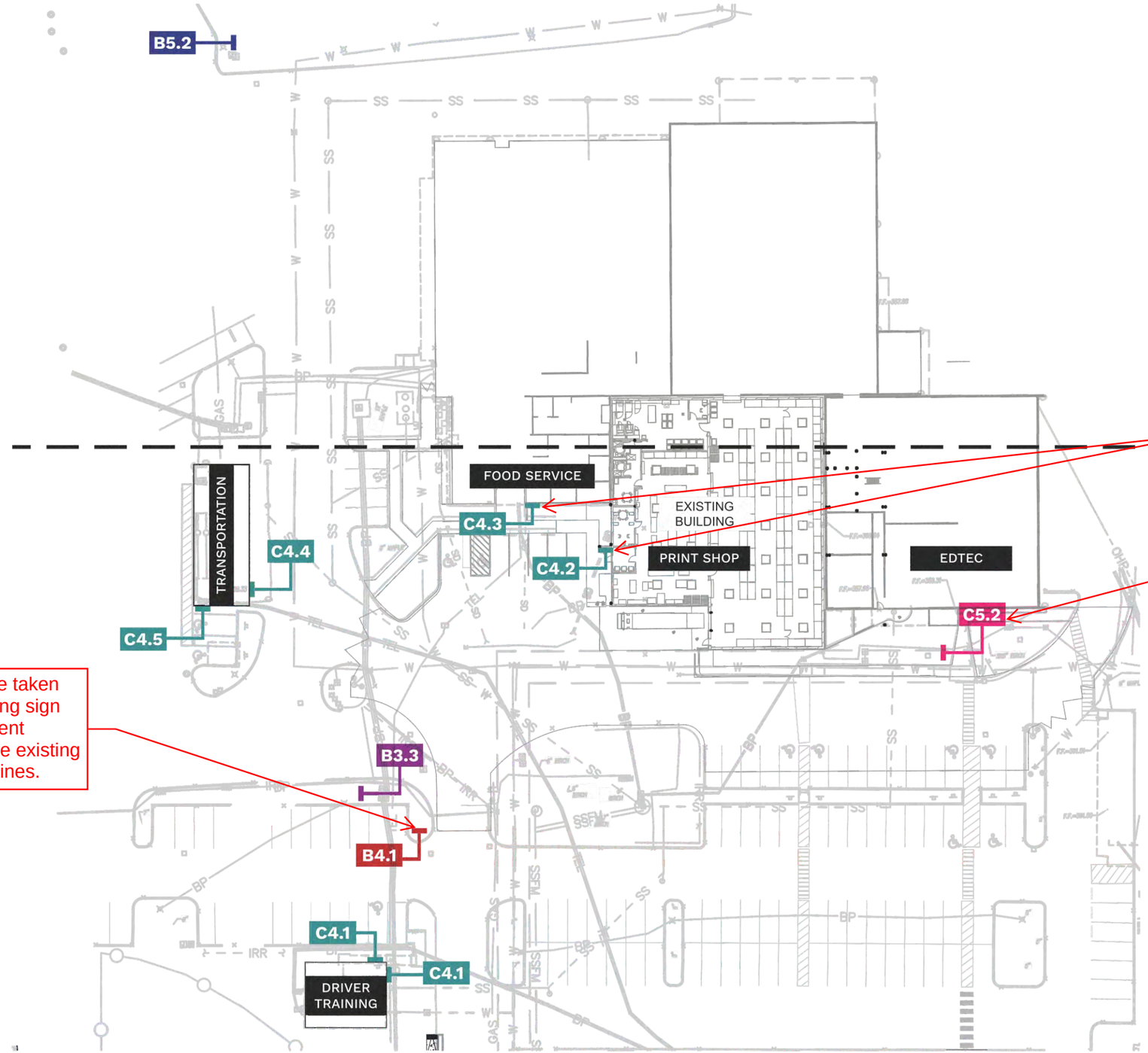
SITE MAP
SCALE: NTS

DESIGN	PROJECT	INSTALL LOCATION	APPROVED BY/DATE
0000-10727	Kessler Center Building	1501 39th Ave. SW., Puyallup, WA 98373	X

PLUMB SIGNS, INC
909 SOUTH 28TH ST
TACOMA, WA 98409
TEL# 253-473-3323
FAX#253-472-3107
PLUMBSIGNS.COM

SALES	SCALE	SHEET
DM	AS NOTED	14 of 15
DRAWN BY	START DATE	REVISION
MO	04.07.21	

B-21-0495



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B1.2 is not permitted or authorized by the City of Puyallup to be located on private property without an easement from the property owner of parcel 0419043091. No signs shall encroach on the 15' wide slope and utility easements on the corner of 17TH ST SW and 39TH AVE SW.

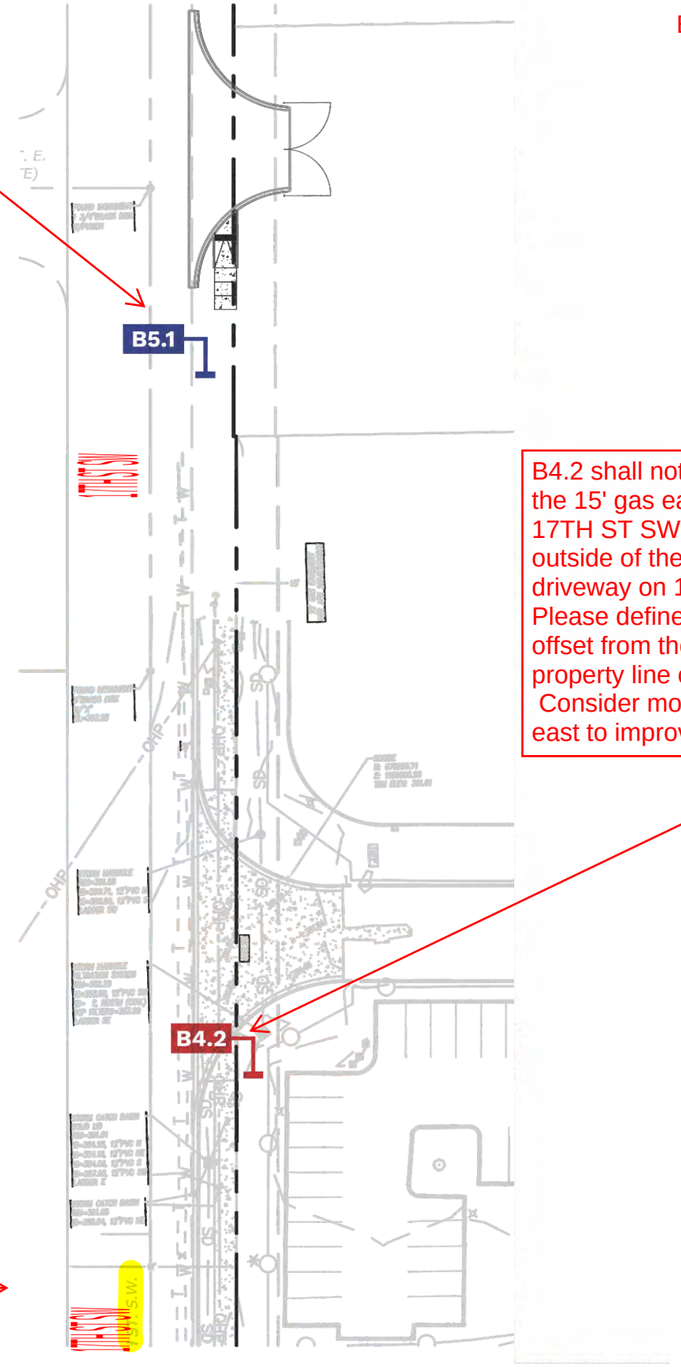
B5.1 shall not be installed in the public right of way or within the 15' gas easement along 17TH ST SW. Move B5.1 to private property and outside of the sight line for the driveway on 17TH ST SW. Please define and callout the offset from the western property line on the site plan. Consider moving sign farther east to improve visibility.

Off-Premises signs are prohibited - remove from permit application

SITE MAP
SCALE: NTS

The City of Puyallup does not permit or authorize the installation of signs within the Pierce County right of way. Please remove B2.1 from the permit application.

Label this street as 17TH ST SW.



B4.2 shall not encroach on the 15' gas easement along 17TH ST SW. Move B4.2 outside of the sight line for the driveway on 17TH ST SW. Please define and callout the offset from the western property line on the site plan. Consider moving sign farther east to improve visibility.

SITE MAP
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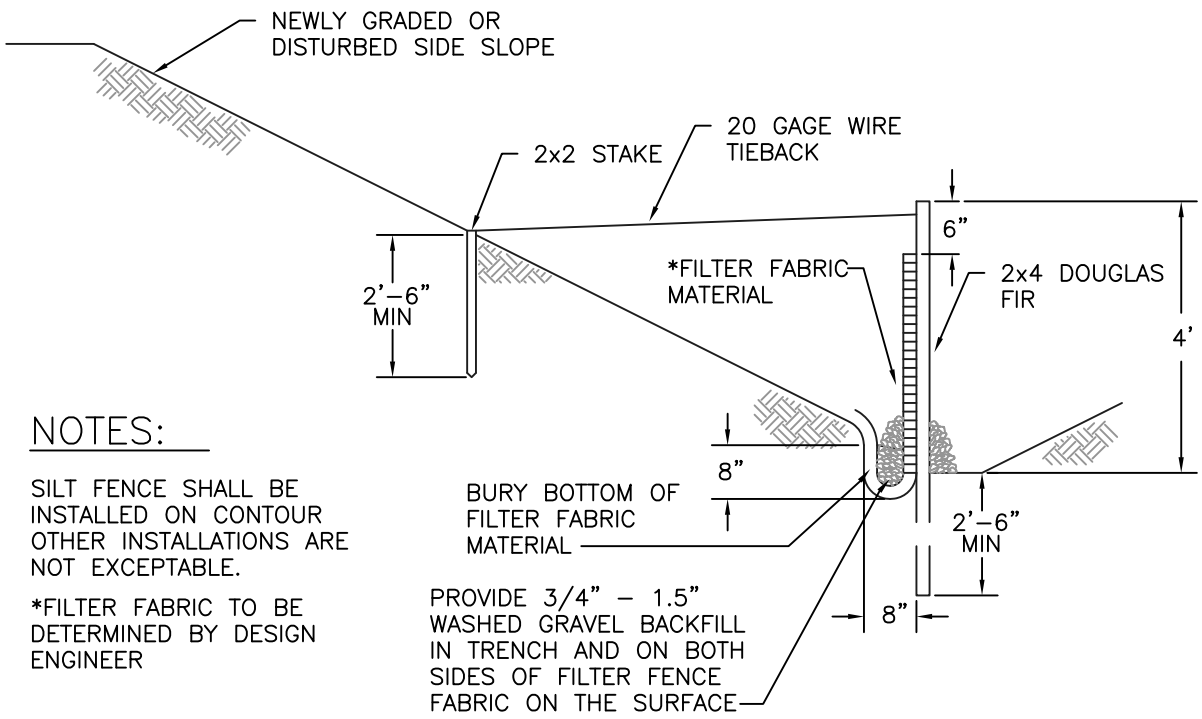
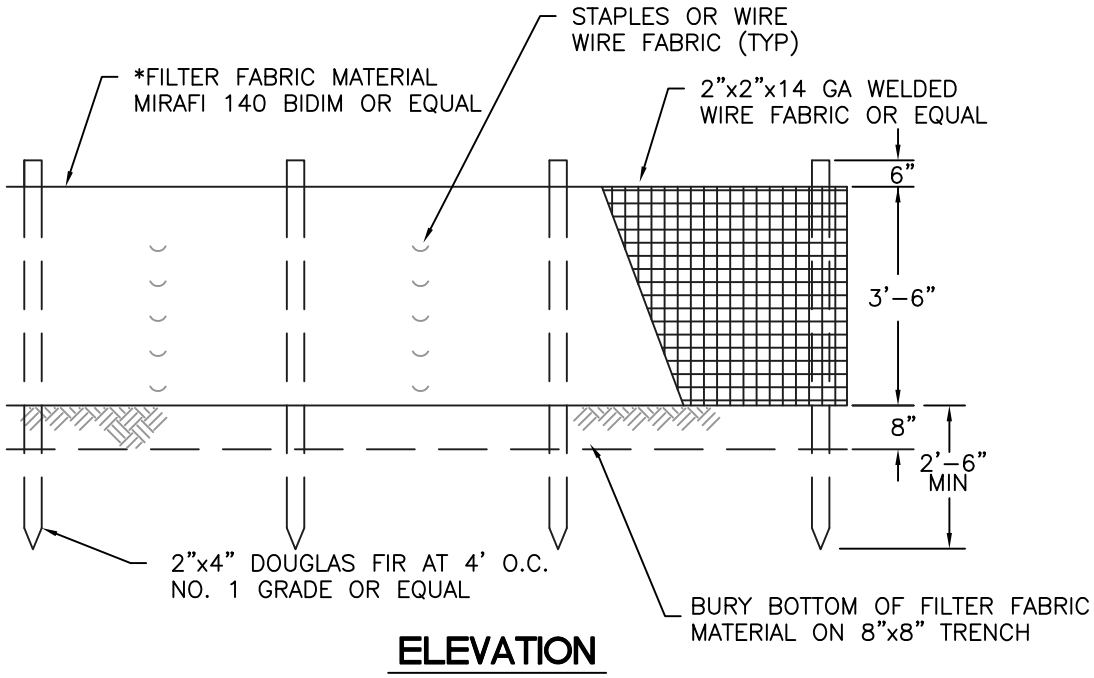


NOTES:

SILT FENCE SHALL BE INSTALLED ON CONTOUR OTHER INSTALLATIONS ARE NOT EXCEPTABLE.

*FILTER FABRIC TO BE DETERMINED BY DESIGN ENGINEER

TYPICAL CROSS SECTION



ELEVATION

CITY OF
PUYALLUP
DEVELOPMENT ENGINEERING and
PUBLIC WORKS DEPARTMENTS

SILTATION FENCE

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	XXXX	02.03.02

FILE NAME	DATE APPROVED	DATE REVISED	SCALE
F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.03.02	09/01/1992	06/01/2003	NTS

B-21-0495

1. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.

2. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON–SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.

3. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.

4. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.

5. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.

6. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.

7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	
FILE NAME		DATE APPROVED	DATE REVISED	SCALE
F:\DWG\COMMON\STDS\CITY\2009\05_GRD\05.01\05.02.01		07/01/2009	11/18/2014	1:1

05.02.01

B-21-0495

B1 S/F POST & PANEL DIRECTIONAL SIGN — SCALE: AS NOTED

MANUFACTURE & INSTALL :

QUANTITY (2)

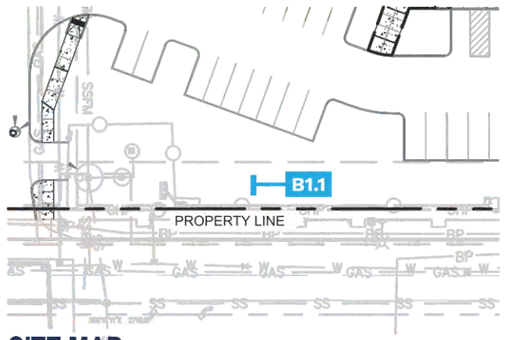
31.64' SQ FT

FACES : .125" ALUM. W/ EASED CORNERS PTM PMS 534c DARK BLUE & PMS 646c EVENING BLUE
GRAPHIC HEADER : DIGITALLY PRINTED VINYL APPLIED TO FACE
COPY : 3M 7725-10 WHITE VINYL & 3M 7725-25 SUNFLOWER VINYL
POSTS : 2" SQUARE STEEL
ATTACHMENT : DIRECT BURIAL

B1.1 is very close to the sight line for the driveway on 39TH AVE SW. Please define and callout the offset from the station to the west and the southern property line on the site plan. Consider moving sign farther north to improve visibility.

B1.1 - WEST VIEW
SCALE: 1/2"=1'-0"
QTY (1)

PROFILE VIEW



SITE MAP
SCALE: NTS

SEE SHEET 14 FOR PROPOSED LOCATION ON SITE MAP

B1.2 is not permitted or authorized by the City of Puyallup to be located on private property without an easement from the property owner of parcel 0419043091. No signs shall encroach on the 15' wide slope and utility easements on the corner of 17TH ST SW and 39TH AVE SW.

B1.2 - WEST VIEW
SCALE: 1/2"=1'-0"
QTY (1)

PROFILE VIEW

SITE MAP
SCALE: NTS

SEE SHEET 15 FOR PROPOSED LOCATION ON SITE MAP

DESIGN	PROJECT	INSTALL LOCATION	APPROVED BY/DATE
0000-10727	Kessler Center Building	1501 39th Ave. SW., Puyallup, WA 98373	X

PLUMB SIGNS, INC
909 SOUTH 28TH ST
TACOMA, WA 98409
TEL# 253-473-3323
FAX#253-472-3107
PLUMBSIGNS.COM

SALES	SCALE	SHEET
DM	AS NOTED	1 of 15
DRAWN BY	START DATE	REVISION
MO	04.07.21	

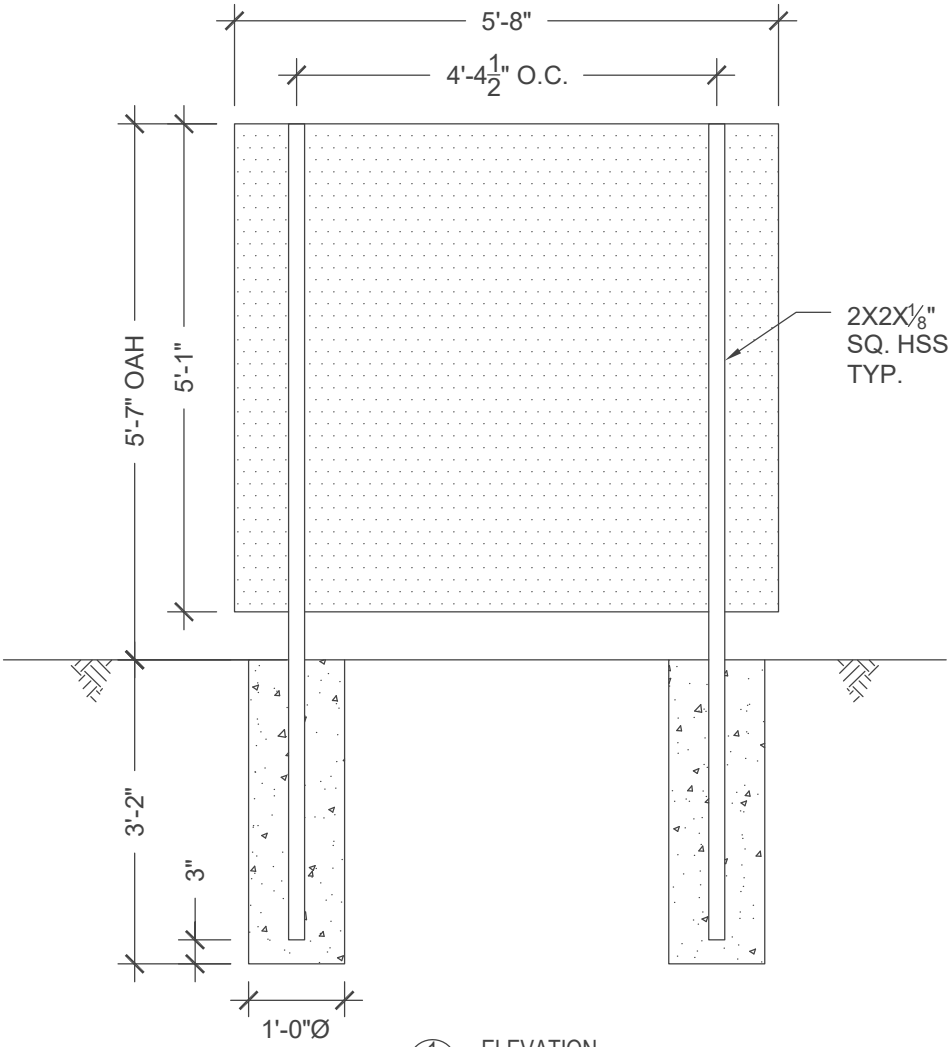
B-21-0495

SULLAWAY ENGINEERING

10815 RANCHO BERNARDO RD., SUITE 260
SAN DIEGO, CA 92198
PROJECTMANAGER@SULLAWAYENG.COM
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: KESSLER CENTER BUILDING, SIGN TYPE: B1, 1501 39TH AVENUE, SW, PUYALLUP, WA
PROJECT #: 30845A
CLIENT: PLUMB SIGNS

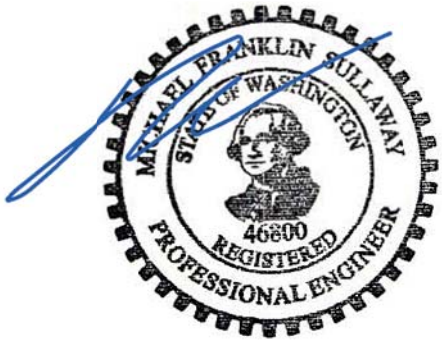
DATE: 6/29/2021
ENGINEER: ET
LAST REVISED:



1 - ELEVATION

GENERAL NOTES

1. DESIGN CODE: IBC 2018 & WASHINGTON SBCC 2018
2. DESIGN LOADS: ASCE 7-16
3. WIND VELOCITY 100 MPH EXPOSURE C
4. CONCRETE 2500 PSI MINIMUM
5. SQ. HSS STEEL ASTM A500 GR. B, F_y = 46 KSI MIN.
6. PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
7. LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
8. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
9. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION



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SULLAWAY ENGINEERING
10815 Rancho Bernardo RD., SD, CA 92127
projectmanager@sullawayeng.com
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: KESSLER CENTER BUILDING
PROJ. NO.: 30845A
CLIENT: PLUMB SIGNS

DATE: 6/29/21
ENGINEER: ET

V5.5

units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16 (per worst case pole)

$F=q_z*G*C_f*A_f$ with $q_z = 0.00256K_zK_{zt}K_dV^2$ (29.3.2 & 29.4)

C_f= 1.534 (Fig. 29.3-1) 1.00 0 max. height= 5.583

K_{zt}= 1.0 (26.8.2) (=1.0 unless unusual landscape)

K_z= from table 28.3-1 Exposure= c

K_d= 0.85 for signs (table 26.6-1)

V= 100 mph

G= 0.85 (26.9) weight= 0.145 kips

s/h= 0.910 M_{DL}= 0.00 k-ft

B/s= 1.11

Pole Loads	structure component	height at section c.g	K_z	q_z	pressure q_z*G*C_f	A_f	shear	Wind Moment M_W		
	1	0.25	0.85	18.50	24.11	0.08	2	1		
	2	3.04	0.85	18.50	24.11	14.40	347	1056		
					sums:	14.49	349	1.06	(M_w) k-ft	arm= 3.0
					for s/h=1, add 10% (asce fig. 29.4-1):	x 1.10		1.16		

P_u= 0.17 kip M= 1.16 k-ft $M=\sqrt{M_{DL}^2+M_w^2}$

$M_u=\sqrt{1.2M_{DL}^2+1.0M_W^2}$ = 1.16 k-ft

Pole Design

section; tube

$M_u \le \phi M_n$ with $M_n = f_yZ$ f_y= 46 ksi ϕ= 0.9

H	M_u(k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	Use
at grade	1.16	0.34	2	0.25	0.96	2x2x1/8 Sq. HSS, ϕMn = 2.02 k-ft

Footing Design

footprint: round

ω= 1.3 IBC 1605.3.2 IBC Table 1806.2, sections 1806.3.4, 1807.3.2 S=(1.3x2x150psf/ft)

P= 0.27 kip S1 = S x d / 3 A = 2.34 x P / (S1 x b) S= 400

S1= 418 d =0.5xA (1+ (1+4.36x h/A) ^.5) IBC 1807.3.2.1

A= 1.53

footing: **1' - 0" dia.**
3' - 2" deep

B2.1 D/F POST & PANEL DIRECTIONAL SIGN — SCALE: AS NOTED

MANUFACTURE & INSTALL :

QUANTITY (1)
16.05' SQ FT

FACES : .125" ALUM. W/ EASED CORNERS PTM PMS 534c DARK BLUE & PMS 646c EVENING BLUE
GRAPHIC HEADER : DIGITALLY PRINTED VINYL APPLIED TO FACE
COPY : 3M 7725-10 WHITE VINYL & 3M 7725-25 SUNFLOWER VINYL
POSTS : 2" SQUARE STEEL
ATTACHMENT : DIRECT BURIAL

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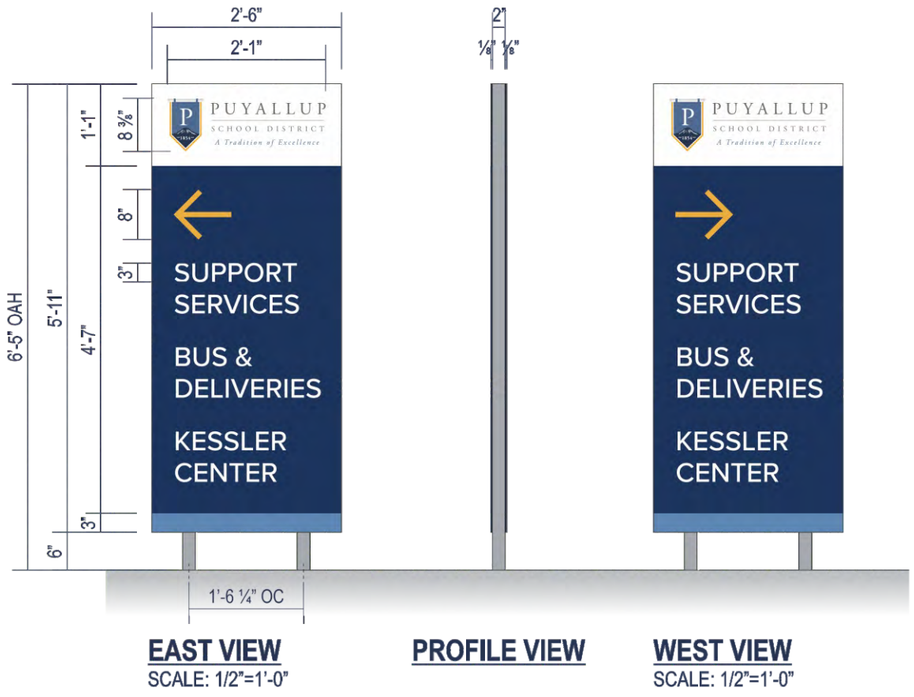

EAST VIEW
SCALE: 1/2"=1'-0"

PROFILE VIEW

WEST VIEW
SCALE: 1/2"=1'-0"

SEE SHEET 15 FOR PROPOSED LOCATION ON SITE MAP

PROPOSED SIGN ELEVATION
SCALE: NTS

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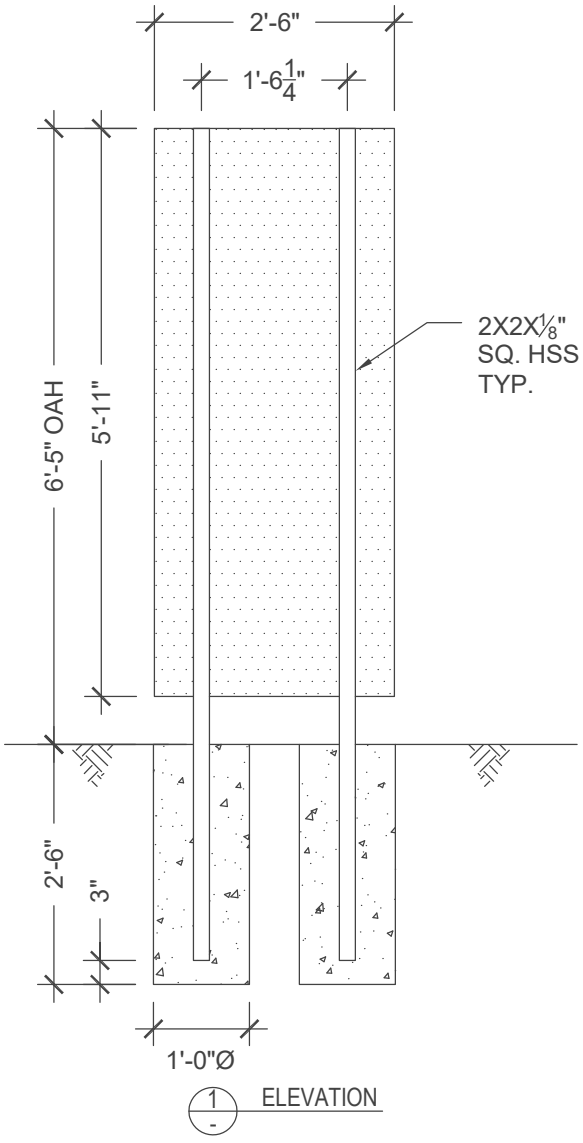
PROJECT #: 30845B
CLIENT: PLUMB SIGNS

DATE: 6/29/2021
ENGINEER: ET
LAST REVISED:



1 - ELEVATION

GENERAL NOTES

1. DESIGN CODE: IBC 2018 & WASHINGTON SBCC 2018
2. DESIGN LOADS: ASCE 7-16
3. WIND VELOCITY 100 MPH EXPOSURE C
4. CONCRETE 2500 PSI MINIMUM
5. SQ. HSS STEEL ASTM A500 GR. B, F_y = 46 KSI MIN.
6. PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
7. LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
8. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
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projectmanager@sullawayeng.com
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: KESSLER CENTER BUILDING
PROJ. NO.: 30845B
CLIENT: PLUMB SIGNS

DATE: 6/29/21
ENGINEER: ET

V5.5

units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16 (per worst case pole)

$F=q_z*G*C_f*A_f$ with $q_z = 0.00256K_zK_{zt}K_dV^2$ (29.3.2 & 29.4)

C_f= 1.615 (Fig. 29.3-1) 1.00 0 max. height= 6.417

K_{zt}= 1.0 (26.8.2) (=1.0 unless unusual landscape)

K_z= from table 28.3-1 Exposure= c

K_d= 0.85 for signs (table 26.6-1)

V= 100 mph

G= 0.85 (26.9) weight= 0.075 kips

s/h= 0.922 M_{DL}= 0.00 k-ft

B/s= 0.42

Pole Loads	structure component	height at section c.g	K_z	q_z	pressure q_z*G*C_f	A_f	shear	Wind Moment M_W		
	1	0.25	0.85	18.50	25.39	0.08	2	1		
	2	3.46	0.85	18.50	25.39	7.40	188	649		
					sums:	7.48	190	0.65	(M_w)	k-ft arm= 3.4
					for s/h=1, add 10% (asce fig. 29.4-1):	x 1.10		0.71		

P_u= 0.09 kip M= 0.71 k-ft $M=\sqrt{M_{DL}^2+M_w^2}$

$M_u=\sqrt{1.2M_{DL}^2+1.0M_W^2}$ = 0.71 k-ft

Pole Design

section; tube

$M_u \le \phi M_n$ with $M_n = f_yZ$ f_y= 46 ksi ϕ= 0.9

H	M_u(k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	Use
at grade	0.71	0.21	1	0.11	0.30	2x2x1/8 Sq. HSS, ϕMn = 2.02 k-ft

Footing Design

footprint: round

ω= 1.3 IBC 1605.3.2 IBC Table 1806.2, sections 1806.3.4, 1807.3.2 S=(1.3x2x150psf/ft)

P= 0.15 kip S1 = S x d / 3 A = 2.34 x P / (S1 x b) S= 400

S1= 338 d =0.5xA (1+ (1+4.36x h/A) ^.5) IBC 1807.3.2.1

A= 1.03

footing: **1' - 0" dia.**
2' - 6" deep

B3 D/F INTERIOR POST & PANEL DIRECTIONAL SIGNS — SCALE: AS NOTED

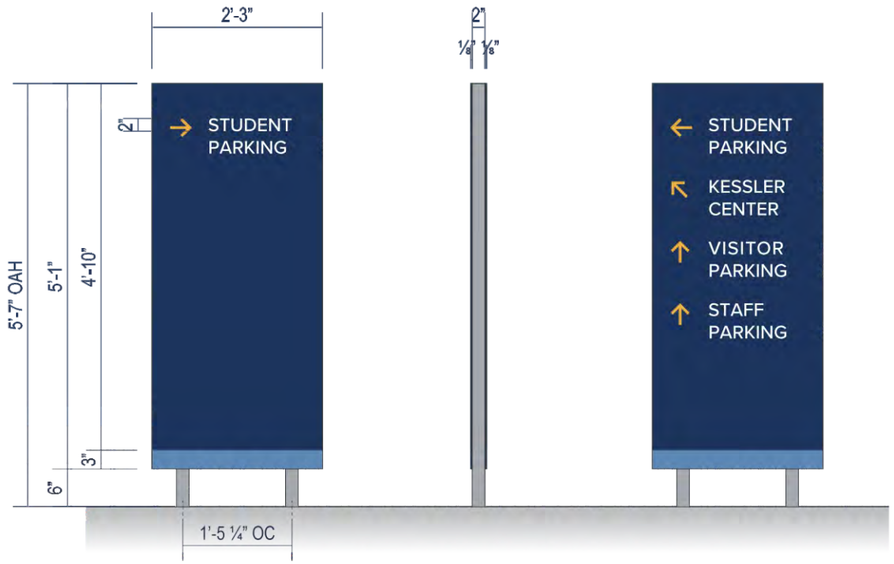
MANUFACTURE & INSTALL :

QUANTITY (2)

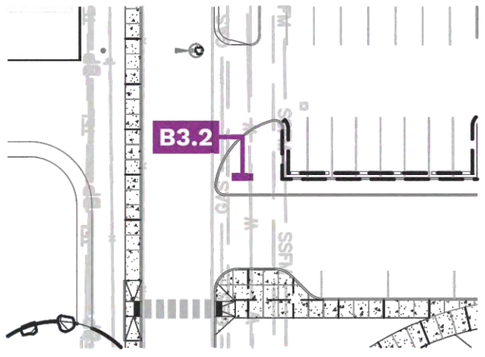
12.55' SQ FT

FACES : .125" ALUM. W/ EASED CORNERS PTM PMS 534c DARK BLUE & PMS 646c EVENING BLUE
COPY : 3M 7725-10 WHITE VINYL & 3M 7725-25 SUNFLOWER VINYL
POSTS : 2" SQUARE STEEL
ATTACHMENT : TBD PER SITE SURVEY

B3.2 shall not encroach on
the 15' water line easement.

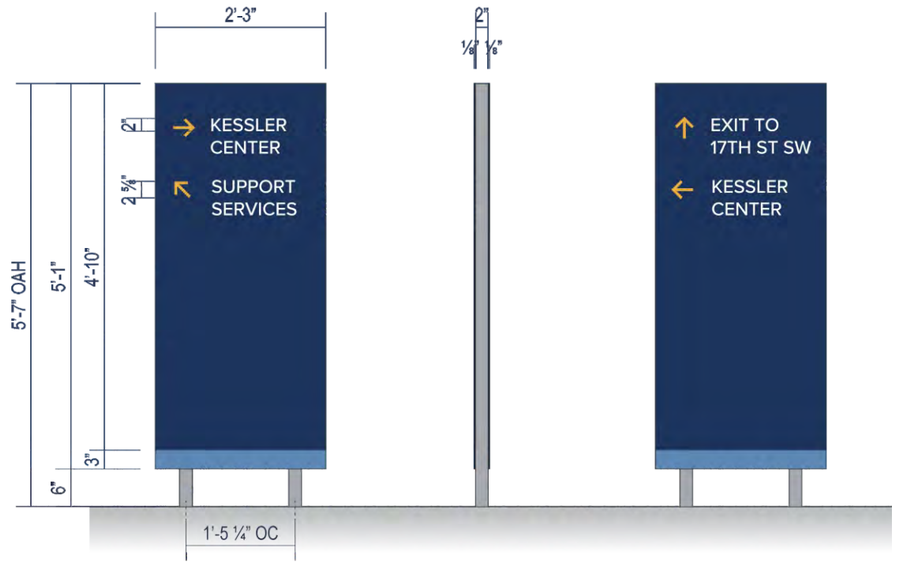


B3.2 - NORTH VIEW **PROFILE VIEW** **B3.2 - SOUTH VIEW**
SCALE: 1/2"=1'-0"
QTY (1)

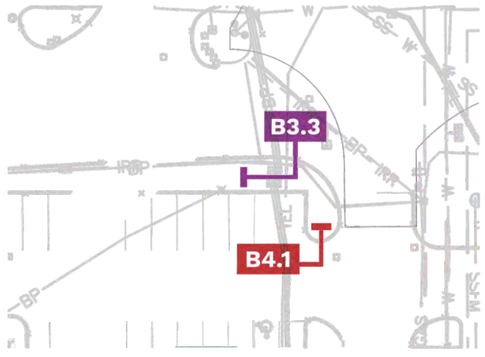


SITE MAP
SCALE: NTS

SEE SHEET 13 FOR PROPOSED LOCATION ON SITE MAP



B3.3 - EAST VIEW **PROFILE VIEW** **B3.3 - WEST VIEW**
SCALE: 1/2"=1'-0"
QTY (1)



SITE MAP
SCALE: NTS

SEE SHEET 14 FOR PROPOSED LOCATION ON SITE MAP

DESIGN	PROJECT	INSTALL LOCATION	APPROVED BY/DATE
0000-10727	Kessler Center Building	1501 39th Ave. SW., Puyallup, WA 98373	X

PLUMB SIGNS, INC
909 SOUTH 28TH ST
TACOMA, WA 98409
TEL# 253-473-3323
FAX#253-472-3107
PLUMBSIGNS.COM

SALES	SCALE	SHEET
DM	AS NOTED	3 of 15
DRAWN BY	START DATE	REVISION
MO	04.07.21	

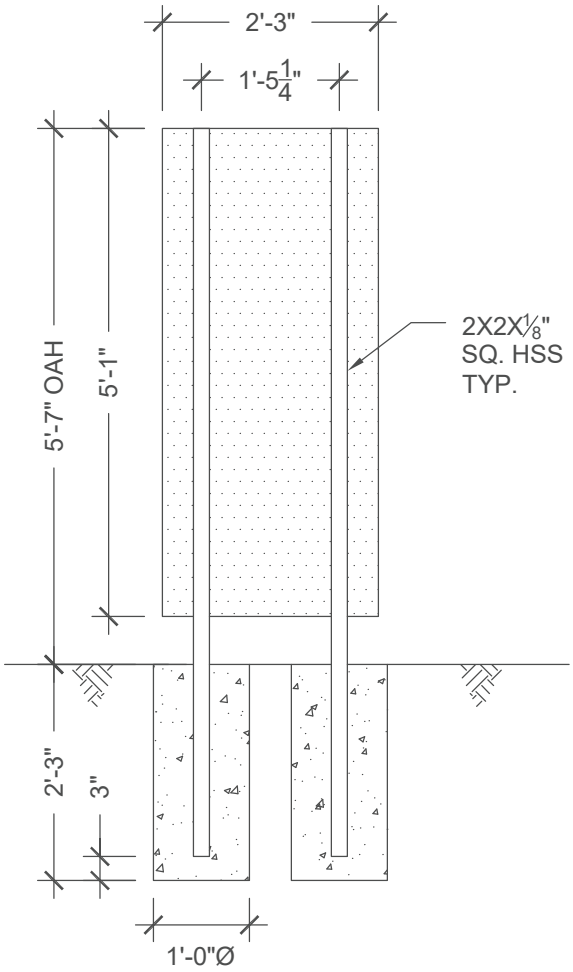
B-21-0495

SULLAWAY ENGINEERING

10815 RANCHO BERNARDO RD., SUITE 260
SAN DIEGO, CA 92198
PROJECTMANAGER@SULLAWAYENG.COM
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: KESSLER CENTER BUILDING, SIGN TYPE: B3, 1501 39TH AVENUE, SW, PUYALLUP, WA
PROJECT #: 30845C
CLIENT: PLUMB SIGNS

DATE: 6/29/2021
ENGINEER: JC
LAST REVISED:



1 - ELEVATION

GENERAL NOTES

1. DESIGN CODE: IBC 2018 & WASHINGTON SBCC 2018
2. DESIGN LOADS: ASCE 7-16
3. WIND VELOCITY 100 MPH EXPOSURE C
4. CONCRETE 2500 PSI MINIMUM
5. SQ. HSS STEEL ASTM A500 GR. B, F_y = 46 KSI MIN.
6. PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
7. LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
8. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
9. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION

B-21-0495

SULLAWAY ENGINEERING
10815 Rancho Bernardo RD., SD, CA 92127
projectmanager@sullawayeng.com
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: KESSLER CENTER BUILDING
PROJ. NO.: 30845C
CLIENT: PLUMB SIGNS

DATE: 6/29/21
ENGINEER: JC

V5.5

units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16 (per worst case pole)

$F=q_z*G*C_f*A_f$ with $q_z = 0.00256K_zK_{zt}K_dV^2$ (29.3.2 & 29.4)

C_f= 1.614 (Fig. 29.3-1) 1.00 0 max. height= 5.583

K_{zt}= 1.0 (26.8.2) (=1.0 unless unusual landscape)

K_z= from table 28.3-1 Exposure= c

K_d= 0.85 for signs (table 26.6-1)

V= 100 mph

G= 0.85 (26.9) weight= 0.058 kips

s/h= 0.910 M_{DL}= 0.00 k-ft

B/s= 0.44

Pole Loads	structure component	height at section c.g	K_z	q_z	pressure q_z*G*C_f	A_f	shear	Wind Moment M_W		
	1	0.25	0.85	18.50	25.37	0.08	2	1		
	2	3.04	0.85	18.50	25.37	5.72	145	441		
					sums:	5.80	147	0.44	(M_w)	k-ft arm= 3.0
				for s/h=1, add 10% (asce fig. 29.4-1):		x 1.10		0.49		

P_u= 0.07 kip M= 0.49 k-ft $M=\sqrt{M_{DL}^2+M_w^2}$

$M_u=\sqrt{1.2M_{DL}^2+1.0M_W^2}$ = 0.49 k-ft

Pole Design section; tube

$M_u \le \phi M_n$ with $M_n = f_yZ$ f_y= 46 ksi ϕ= 0.9

H	M_u(k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	Use
at grade	0.49	0.14	1	0.11	0.30	2x2x1/8 Sq. HSS, ϕMn = 2.02 k-ft

Footing Design footprint: round

ω= 1.3 IBC 1605.3.2 IBC Table 1806.2, sections 1806.3.4, 1807.3.2 S=(1.3x2x150psf/ft)

P= 0.11 kip S1 = S x d / 3 A = 2.34 x P / (S1 x b) S= 400

S1= 297 d =0.5xA (1+ (1+4.36x h/A) ^.5) IBC 1807.3.2.1

A= 0.90

footing: **1' - 0" dia.**
2' - 3" deep

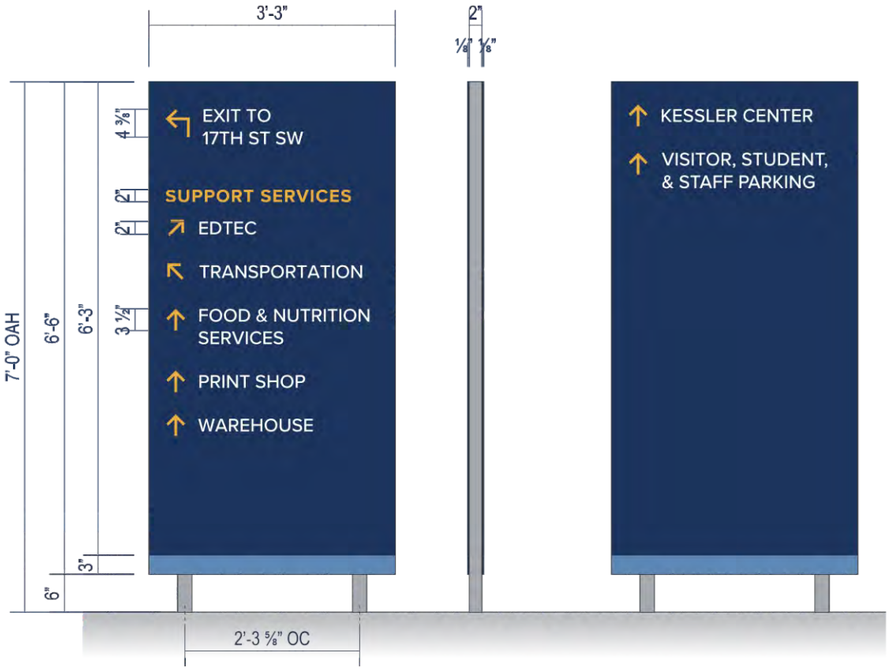
B4 D/F INTERIOR POST & PANEL DIRECTIONAL SIGNS — SCALE: AS NOTED

MANUFACTURE & INSTALL : **QUANTITY (2)**

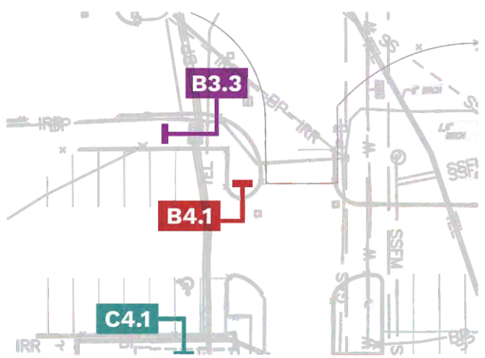
FACES : .125" ALUM. W/ EASED CORNERS PTM PMS 534c DARK BLUE & PMS 646c EVENING BLUE
GRAPHIC HEADER : DIGITALLY PRINTED VINYL APPLIED TO FACE
COPY : 3M 7725-10 WHITE VINYL & 3M 7725-25 SUNFLOWER VINYL
POSTS : 2" SQUARE STEEL
ATTACHMENT : TBD PER SITE SURVEY

22.75' SQ FT

Care shall be taken when installing sign B4.1 to prevent damaging the existing storm drain lines.



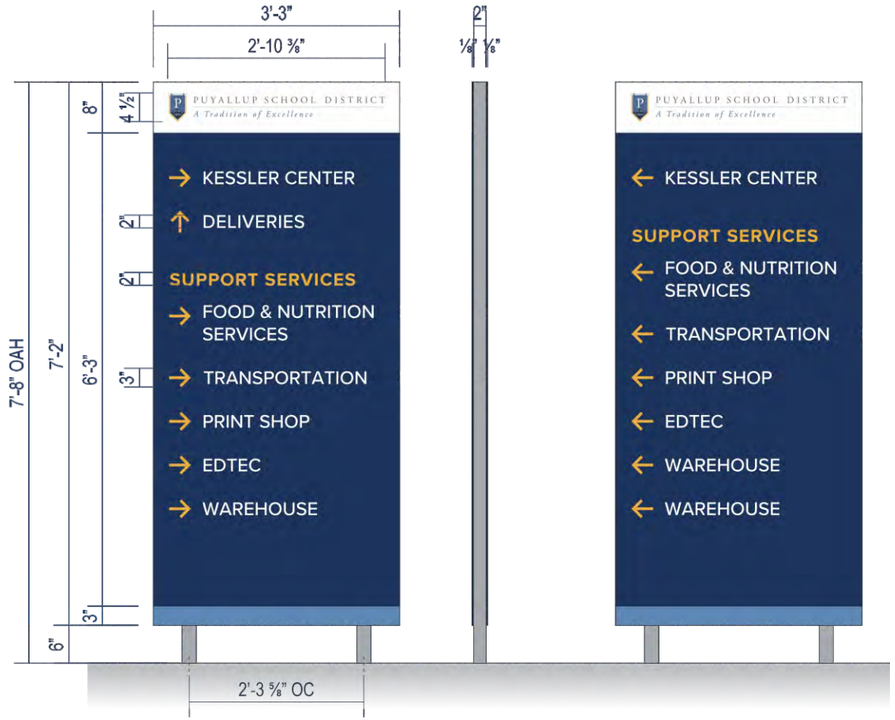
B4.1 - NORTH VIEW **PROFILE VIEW** **B4.1 - SOUTH VIEW**
SCALE: 1/2"=1'-0"
QTY (1)



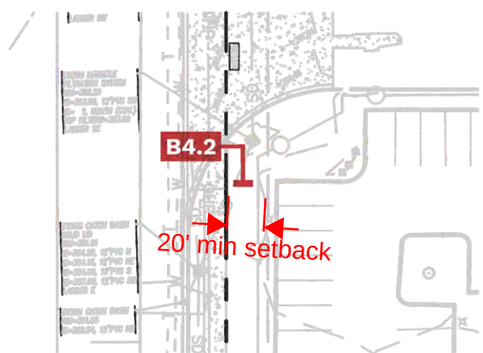
SITE MAP
SCALE: NTS

SEE SHEET 14 FOR PROPOSED LOCATION ON SITE MAP

B4.2 shall not encroach on the 15' gas easement along 17TH ST SW. Move B4.2 outside of the sight line for the driveway on 17TH ST SW. Please define and callout the offset from the western property line on the site plan. Consider moving sign farther east to improve visibility.



B4.2 - NORTH VIEW **PROFILE VIEW** **B4.2 - SOUTH VIEW**
SCALE: 1/2"=1'-0"
QTY (1)



SITE MAP
SCALE: NTS

SEE SHEET 15 FOR PROPOSED LOCATION ON SITE MAP

DESIGN	PROJECT	INSTALL LOCATION	APPROVED BY/DATE
0000-10727	Kessler Center Building	1501 39th Ave. SW., Puyallup, WA 98373	X_____

PLUMB SIGNS, INC
909 SOUTH 28TH ST
TACOMA, WA 98409
TEL# 253-473-3323
FAX#253-472-3107
PLUMBSIGNS.COM

SALES	SCALE	SHEET
DM	AS NOTED	4 of 15
DRAWN BY	START DATE	REVISION
MO	04.07.21	

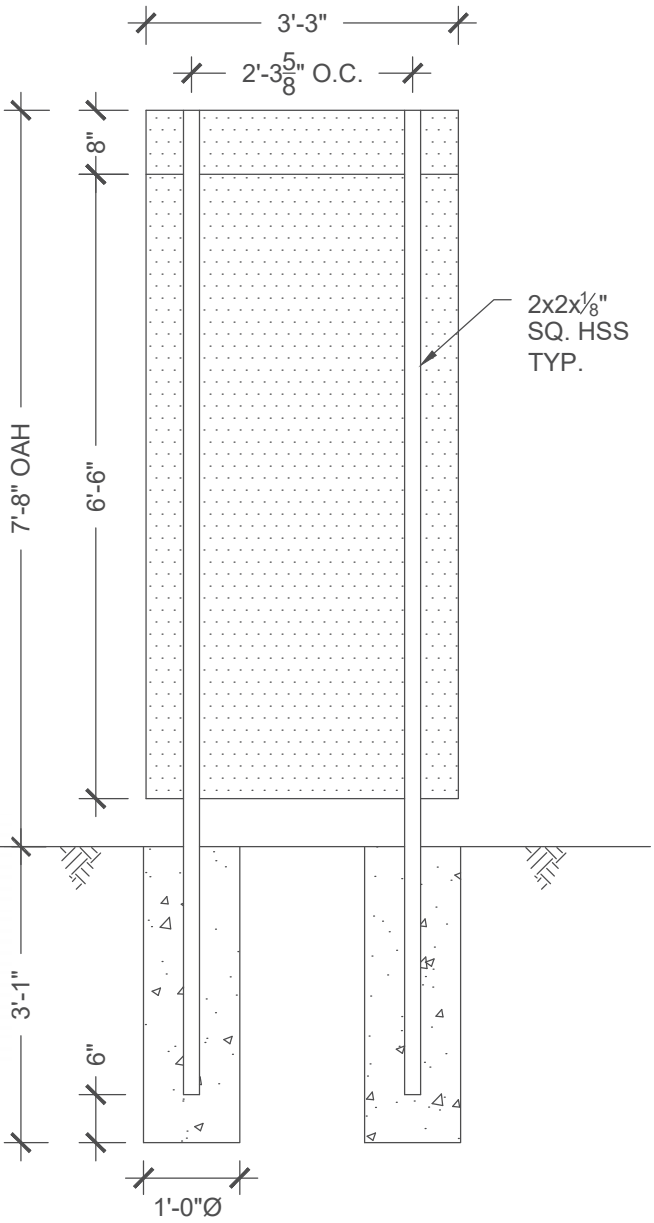
B-21-0495

SULLAWAY ENGINEERING

10815 RANCHO BERNARDO RD., SUITE 260
SAN DIEGO, CA 92198
PROJECTMANAGER@SULLAWAYENG.COM
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: KESSLER CENTER BUILDING, SIGN TYPE: B4, 1501 39TH AVENUE, SW, PUYALLUP, WA
PROJECT #: 30845D
CLIENT: PLUMB SIGNS

DATE: 6/29/2021
ENGINEER: BF
LAST REVISED:



1 - ELEVATION

GENERAL NOTES

1. DESIGN CODE: IBC 2018 & WASHINGTON SBCC 2018
2. DESIGN LOADS: ASCE 7-16
3. WIND VELOCITY 100 MPH EXPOSURE C
4. CONCRETE 2500 PSI MINIMUM
5. SQ. HSS STEEL ASTM A500 GR. B, F_y = 46 KSI MIN.
6. PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
7. LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
8. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
9. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION

B-21-0495

SULLAWAY ENGINEERING
10815 Rancho Bernardo RD., SD, CA 92127
projectmanager@sullawayeng.com
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: KESSLER CENTER BUILDING DATE: 6/29/21
PROJ. NO.: 30845D ENGINEER: BF
CLIENT: PLUMB SIGNS

V5.5 units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16 (Per Pole)

$F=q_z*G*C_f*A_f$ with $q_z = 0.00256K_zK_{zt}K_dV^2$ (29.3.2 & 29.4)

C_f= 1.598 (Fig. 29.3-1) 1.00 0 max. height= 7.7
K_{zt}= 1.0 (26.8.2) (=1.0 unless unusual landscape)
K_z= from table 28.3-1 Exposure= c
K_d= 0.85 for signs (table 26.6-1)
V= 100 mph
G= 0.85 (26.9) weight= 0.117 kips
s/h= 0.935 M_{DL}= 0.00 k-ft
B/s= 0.45

Pole Loads	structure component	height at section c.g.	K_z	q_z	pressure q_z*G*C_f	A_f	shear	Wind Moment M_W			
	1	0.25	0.850	18.5	25.12	0.1	2	1			
	2	4.08	0.850	18.5	25.12	11.6	293	1195			
					sums:	11.7	295	1.20	(M_w)	k-ft	arm= 4.1
		for s/h=1, add 10% (asce fig. 29.4-1):			x 1.10			1.31			

P_u= 0.14 kip M= 1.31 k-ft $M=\sqrt{M_{DL}^2+M_w^2}$

$M_u=\sqrt{1.2M_{DL}^2+1.0M_W^2}$ = 1.31 k-ft

Pole Design section; tube

$M_u \le \phi M_n$ with $M_n = f_yZ$ f_y= 46 ksi ϕ= 0.9

H	M_u(k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at grade	1.31	0.38	2	0.25	1.0	2x2x1/8" SQ. HSS, ϕMn=2.02 k-ft

Footing Design footprint: round

ω= 1.3 IBC 1605.3.2 IBC Table 1806.2, sections 1806.3.4, 1807.3.2 S=(1.3x2x150 psf/ft)
P= 0.23 kip S1 = S x d / 3 A = 2.34 x P / (S1 x b) S= 400
S1= 416 d =0.5xA (1+ (1+4.36x h/A) ^.5) IBC 1807.3.2.1
A= 1.29

footing: **1' - 0" dia.** **3' - 1" deep**

B5 S/F INTERIOR POST & PANEL DIRECTIONAL SIGN — SCALE: AS NOTED

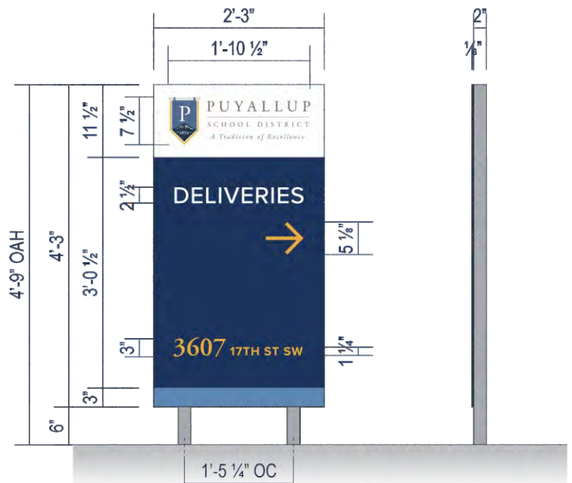
MANUFACTURE & INSTALL :

QUANTITY (2)

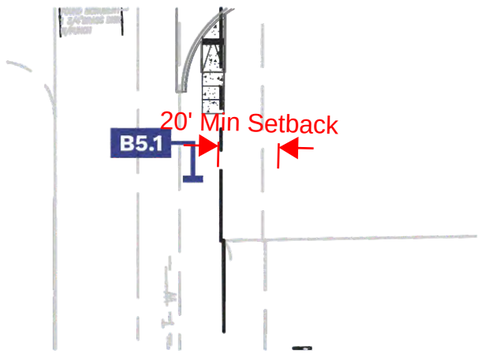
10.69' SQ FT

FACES : .125" ALUM. W/ EASED CORNERS PTM PMS 534c DARK BLUE & PMS 646c EVENING BLUE
GRAPHIC HEADER : DIGITALLY PRINTED VINYL APPLIED TO FACE
COPY : 3M 7725-10 WHITE VINYL & 3M 7725-25 SUNFLOWER VINYL
POSTS : 2" SQUARE STEEL
ATTACHMENT : TBD PER SITE SURVEY

B5.1 shall not be installed in the public right of way or within the 15' gas easement along 17TH ST SW. Move B5.1 to private property and outside of the sight line for the driveway on 17TH ST SW. Please define and callout the offset from the western property line on the site plan. Consider moving sign farther east to improve visibility.

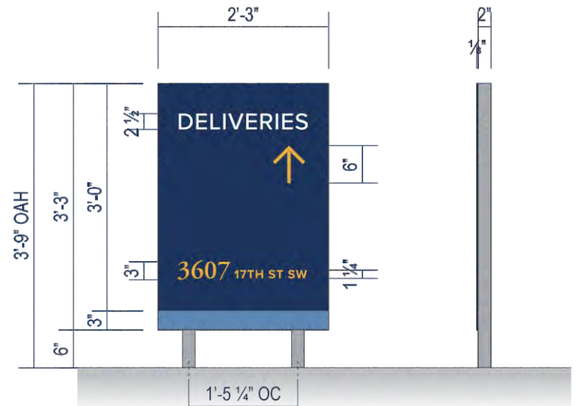


B5.1 - NORTH VIEW **PROFILE VIEW**
SCALE: 1/2"=1'-0"
QTY (1)

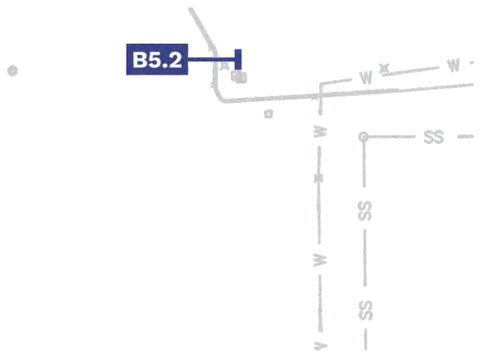


SITE MAP
SCALE: NTS

SEE SHEET 15 FOR PROPOSED LOCATION ON SITE MAP



B5.2 - WEST VIEW **PROFILE VIEW**
SCALE: 1/2"=1'-0"
QTY (1)



SITE MAP
SCALE: NTS

SEE SHEET 13 FOR PROPOSED LOCATION ON SITE MAP

DESIGN	PROJECT	INSTALL LOCATION	APPROVED BY/DATE
0000-10727	Kessler Center Building	1501 39th Ave. SW., Puyallup, WA 98373	X

PLUMB SIGNS, INC
909 SOUTH 28TH ST
TACOMA, WA 98409
TEL# 253-473-3323
FAX#253-472-3107
PLUMBSIGNS.COM

SALES	SCALE	SHEET
DM	AS NOTED	5 of 15
DRAWN BY	START DATE	REVISION
MO	04.07.21	

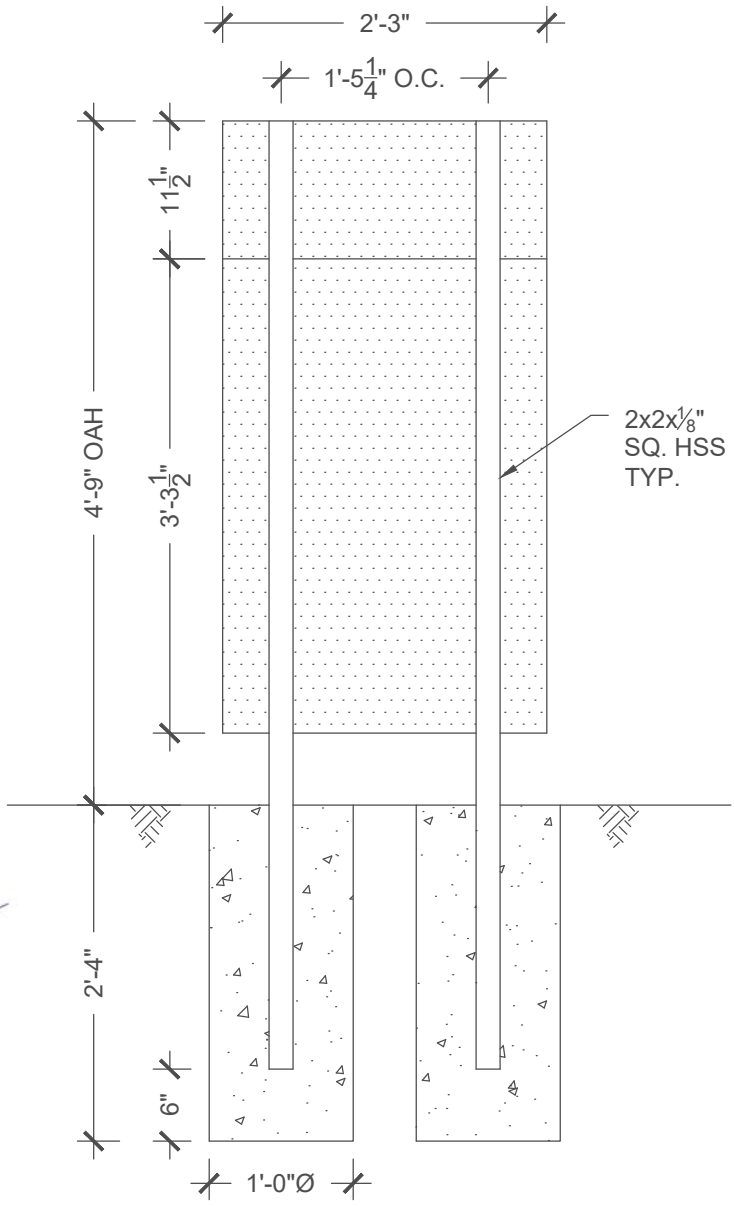
B-21-0495

SULLAWAY ENGINEERING

10815 RANCHO BERNARDO RD., SUITE 260
SAN DIEGO, CA 92198
PROJECTMANAGER@SULLAWAYENG.COM
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: KESSLER CENTER BUILDING, SIGN TYPE: B5, 1501 39TH AVENUE, SW, PUYALLUP, WA
PROJECT #: 30845E
CLIENT: PLUMB SIGNS

DATE: 6/29/2021
ENGINEER: BF
LAST REVISED:



1 - ELEVATION

GENERAL NOTES

1. DESIGN CODE: IBC 2018 & WASHINGTON SBCC 2018
2. DESIGN LOADS: ASCE 7-16
3. WIND VELOCITY 100 MPH EXPOSURE C
4. CONCRETE 2500 PSI MINIMUM
5. SQ. HSS STEEL ASTM A500 GR. B, F_y = 46 KSI MIN.
6. PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
7. LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
8. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
9. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION

B-21-0495

SULLAWAY ENGINEERING
10815 Rancho Bernardo RD., SD, CA 92127
projectmanager@sullawayeng.com
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: KESSLER CENTER BUILDING DATE: 6/29/21
PROJ. NO.: 30845E ENGINEER: BF
CLIENT: PLUMB SIGNS

V5.5 units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16

$F=q_z*G*C_f*A_f$ with $q_z = 0.00256K_zK_{zt}K_dV^2$ (29.3.2 & 29.4)

C_f= 1.411 (Fig. 29.3-1) 2 pole Cf factor= 0.88 1.4375 max. height= 4.8
K_{zt}= 1.0 (26.8.2) (=1.0 unless unusual landscape)
K_z= from table 28.3-1 Exposure= c
K_d= 0.85 for signs (table 26.6-1)
V= 100 mph
G= 0.85 (26.9) weight= 0.097 kips
s/h= 0.895 M_{DL}= 0.00 k-ft
B/s= 0.53

Pole Loads	structure component	height at section c.g.	K_z	q_z	pressure q_z*G*C_f	A_f	shear	Wind Moment M_W			
	1	0.25	0.850	18.5	22.18	0.2	4	1			
	2	2.63	0.850	18.5	22.18	9.6	212	557			
					sums:	9.7	216	0.56	(M_w)	k-ft	arm= 2.6
	two pole distribution factor *b*s (asce fig. 29.4-1):				x 0.81		174	0.45			
					P_u=	0.12	kip	M=	0.45	k-ft	$M=sqrt(M_{DL}^2+M_w^2)$
	$M_u=sqrt(1.2M_{DL}^2+1.0M_W^2)$ =				0.45	k-ft					

Pole Design section; tube

$M_u \le \phi M_n$ with $M_n = f_yZ$ f_y= 46 ksi ϕ= 0.9

H	M_u(k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at grade	0.45	0.13	1	0.11	0.3	2x2x1/8" SQ. HSS, ϕMn=2.02 k-ft

Footing Design footprint: round

ω= 1.3 IBC 1605.3.2 IBC Table 1806.2, sections 1806.3.4, 1807.3.2 S=(1.3x2x150 psf/ft)
P= 0.14 kip S1 = S x d / 3 A = 2.34 x P / (S1 x b) S= 400
S1= 307 d =0.5xA (1+ (1+4.36x h/A) ^.5) IBC 1807.3.2.1
A= 1.04

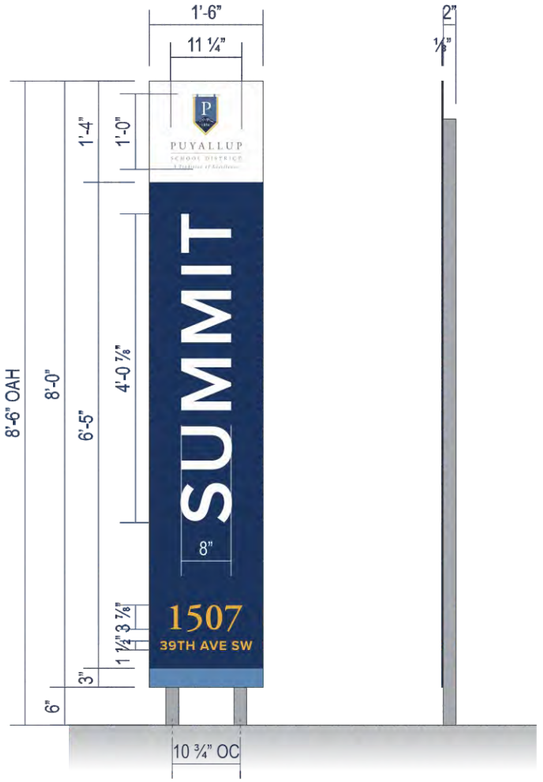
footing: **1' - 0" dia.** **2' - 4" deep**

C5 S/F EXTERIOR POST & PANEL DIRECTIONAL SIGNS — SCALE: AS NOTED

MANUFACTURE & INSTALL : QUANTITY (2)

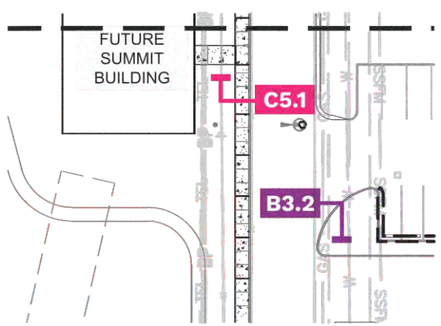
FACES : .125" ALUM. W/ EASED CORNERS PTM PMS 534c DARK BLUE & PMS 646c EVENING BLUE
GRAPHIC HEADER : DIGITALLY PRINTED VINYL APPLIED TO FACE
COPY : 3M 7725-10 WHITE VINYL & 3M 7725-25 SUNFLOWER VINYL
POSTS : 2" SQUARE STEEL
ATTACHMENT : TBD PER SITE SURVEY

12.75' SQ FT



C5.1 - FRONT VIEW PROFILE VIEW

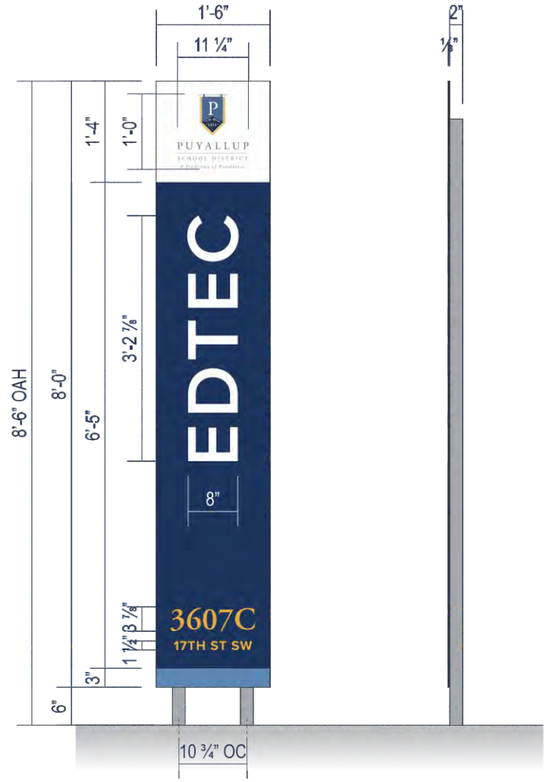
SCALE: 1/2"=1'-0"
QTY (1)



SEE SHEET 13 FOR PROPOSED LOCATION ON SITE MAP

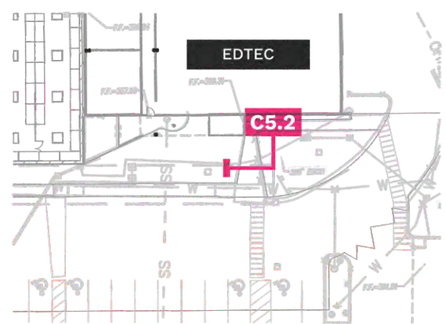
SITE MAP

SCALE: NTS



C5.2 - FRONT VIEW PROFILE VIEW

SCALE: 1/2"=1'-0"
QTY (1)



SEE SHEET 14 FOR PROPOSED LOCATION ON SITE MAP

SITE MAP

SCALE: NTS

DESIGN	PROJECT	INSTALL LOCATION	APPROVED BY/DATE
0000-10727	Kessler Center Building	1501 39th Ave. SW., Puyallup, WA 98373	X

PLUMB SIGNS, INC
909 SOUTH 28TH ST
TACOMA, WA 98409
TEL# 253-473-3323
FAX#253-472-3107
PLUMBSIGNS.COM

SALES	SCALE	SHEET
DM	AS NOTED	11 of 15
DRAWN BY	START DATE	REVISION
MO	04.07.21	

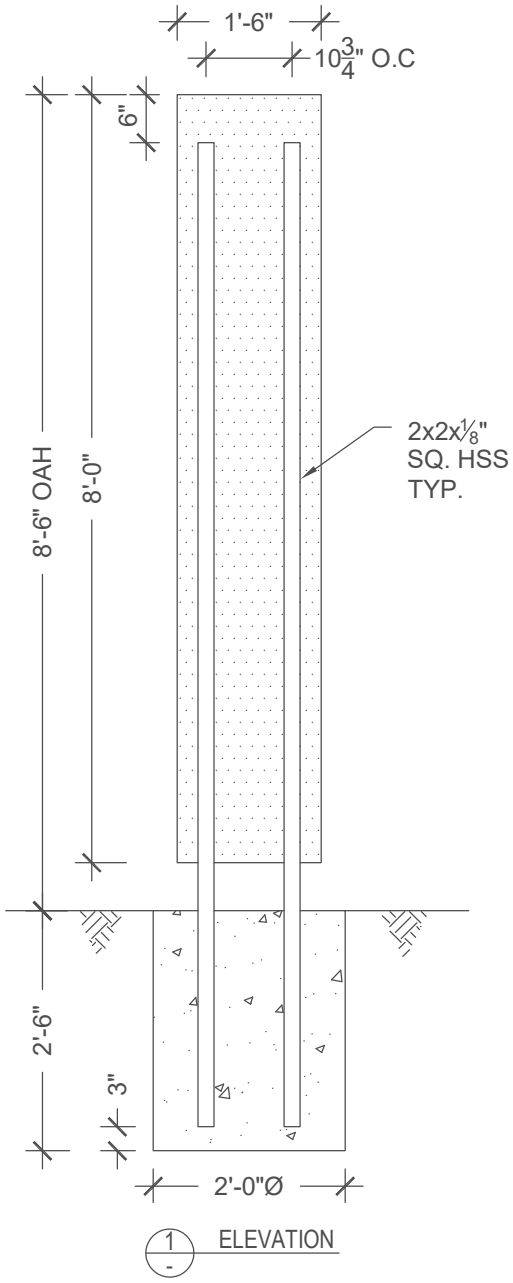
B-21-0495

SULLAWAY ENGINEERING

10815 RANCHO BERNARDO RD., SUITE 260
SAN DIEGO, CA 92198
PROJECTMANAGER@SULLAWAYENG.COM
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: KESSLER CENTER BUILDING, SIGN TYPE: C5, 1501 39TH AVENUE SW, PUYALLUP, WA
PROJECT #: 30845F
CLIENT: PLUMB SIGNS

DATE: 06/29/2021
ENGINEER: SB
LAST REVISED:



1 - ELEVATION

GENERAL NOTES

1. DESIGN CODE: IBC 2018 & WASHINGTON SBCC 2018
2. DESIGN LOADS: ASCE 7-16
3. WIND VELOCITY 100 MPH EXPOSURE C
4. CONCRETE 2500 PSI MINIMUM
5. SQ. HSS STEEL ASTM A500 GR. B, F_y = 46 KSI MIN.
6. PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
7. LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
8. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
9. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION

B-21-0495

SULLAWAY ENGINEERING
10815 Rancho Bernardo RD., SD, CA 92127
projectmanager@sullawayeng.com
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: KESSLER CENTER BUILDING DATE: 6/29/21
PROJ. NO.: 30845F ENGINEER: SB
CLIENT: PLUMB SIGNS

V5.5 units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16

$F=q_z*G*C_f*A_f$ with $q_z = 0.00256K_zK_{zt}K_dV^2$ (29.3.2 & 29.4)

C_f= 1.686 (Fig. 29.3-1) 1.00 0 max. height= 8.5
K_{zt}= 1.0 (26.8.2) (=1.0 unless unusual landscape)
K_z= from table 28.3-1 Exposure= c
K_d= 0.85 for signs (table 26.6-1)
V= 100 mph
G= 0.85 (26.9) weight= 0.122 kips
s/h= 0.941 M_{DL}= 0.00 k-ft
B/s= 0.19

Pole Loads	structure component	height at section c.g.	K_z	q_z	pressure q_z*G*C_f	A_f	shear	Wind Moment M_W			
	1	0.25	0.850	18.5	26.50	0.2	4	1			
	2	4.50	0.850	18.5	26.50	12.0	318	1431			
					sums:	12.2	322	1.43	(M_w)	k-ft	arm= 4.4
		for s/h=1, add 10% (asce fig. 29.4-1):			x 1.10			1.58			

P_u= 0.15 kip M= 1.58 k-ft $M=\sqrt{M_{DL}^2+M_w^2}$

$M_u=\sqrt{1.2M_{DL}^2+1.0M_W^2}$ = 1.58 k-ft

Pole Design section; tube

$M_u \le \phi M_n$ with $M_n = f_yZ$ f_y= 46 ksi ϕ= 0.9

H	M_u(k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at grade	1.58	0.46	2	0.25	1.0	(2) 2x2x1/8" SQ. HSS, ϕMn=2.02 k-ft

Footing Design footprint: round

ω= 1.3 IBC 1605.3.2 IBC Table 1806.2, sections 1806.3.4, 1807.3.2 S=(1.3x2x150 psf/ft)
P= 0.25 kip S1 = S x d / 3 A = 2.34 x P / (S1 x b) S= 400
S1= 338 d =0.5xA (1+ (1+4.36x h/A) ^.5) IBC 1807.3.2.1
A= 0.87

footing: **2' - 0" dia.** **2' - 6" deep**

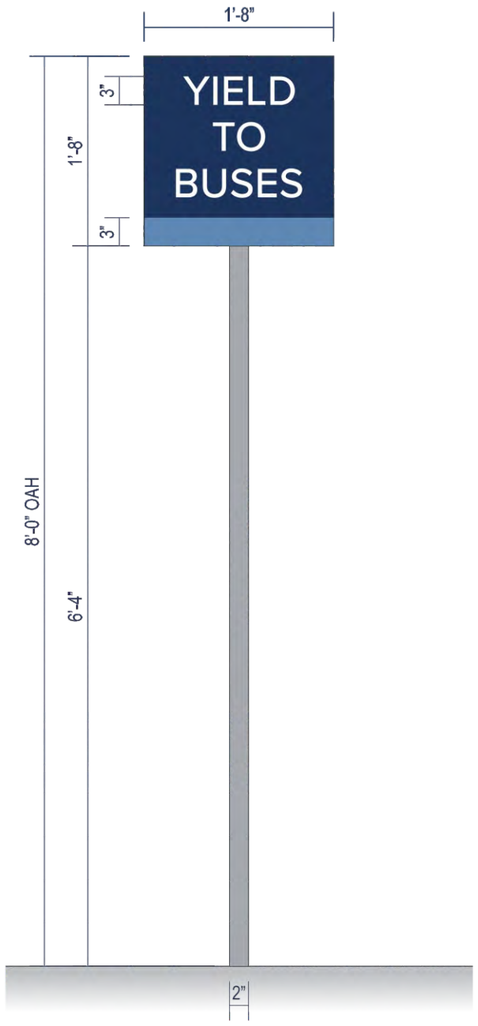
D S/F EXTERIOR POST & PANEL YIELD SIGNS — SCALE: AS NOTED

MANUFACTURE & INSTALL : QUANTITY (2)

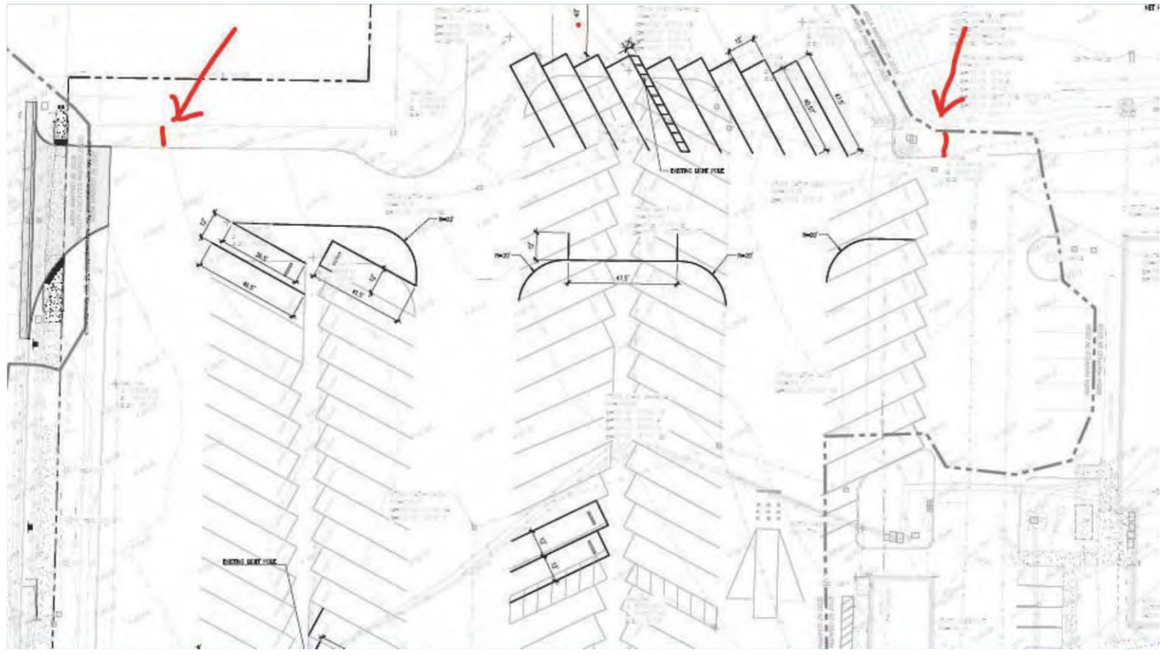
B-21-0495

FACES : .125" ALUM. W/ EASED CORNERS PTM PMS 534c DARK BLUE & PMS 646c EVENING BLUE
COPY : 3M 7725-10 WHITE VINYL
POSTS : 2" SQUARE STEEL
ATTACHMENT : TBD PER SITE SURVEY

NO PERMIT NEEDED DUE TO SIZE OF SIGN- PROVIDED ENGINEERING TO COVER OUR BASES.



FRONT VIEW
SCALE: 3/4"=1'-0"



SITE MAP
SCALE: NTS

DESIGN	PROJECT	INSTALL LOCATION	APPROVED BY/DATE
0000-10727	Kessler Center Building	1501 39th Ave. SW., Puyallup, WA 98373	X

PLUMB SIGNS, INC
909 SOUTH 28TH ST
TACOMA, WA 98409
TEL# 253-473-3323
FAX#253-472-3107
PLUMBSIGNS.COM

SALES	SCALE	SHEET
DM	AS NOTED	12 of 15
DRAWN BY	START DATE	REVISION
MO	04.07.21	

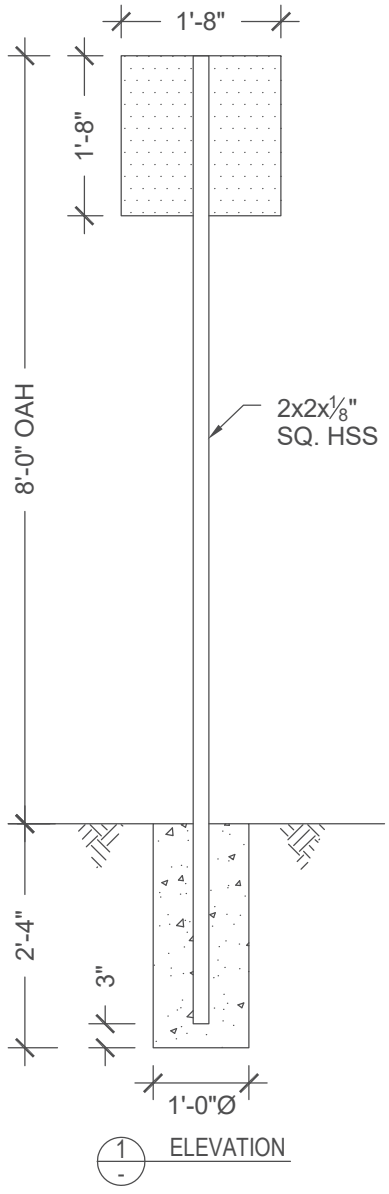
B-21-0495

SULLAWAY ENGINEERING

10815 RANCHO BERNARDO RD., SUITE 260
SAN DIEGO, CA 92198
PROJECTMANAGER@SULLAWAYENG.COM
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: KESSLER CENTER BUILDING, SIGN TYPE: D, 1501 39TH AVENUE SW, PUYALLUP, WA
PROJECT #: 30845G
CLIENT: PLUMB SIGNS

DATE: 06/29/2021
ENGINEER: SB
LAST REVISED:



1 ELEVATION

GENERAL NOTES

1. DESIGN CODE: IBC 2018 & WASHINGTON SBCC 2018
2. DESIGN LOADS: ASCE 7-16
3. WIND VELOCITY 100 MPH EXPOSURE C
4. CONCRETE 2500 PSI MINIMUM
5. SQ. HSS STEEL ASTM A500 GR. B, F_y = 46 KSI MIN.
6. PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
7. LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
8. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
9. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION

B-21-0495

SULLAWAY ENGINEERING
10815 Rancho Bernardo RD., SD, CA 92127
projectmanager@sullawayeng.com
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: KESSLER CENTER BUILDING DATE: 6/29/21
PROJ. NO.: 30845G ENGINEER: SB
CLIENT: PLUMB SIGNS

V5.5

units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-16

$F=q_z*G*C_f*A_f$ with $q_z = 0.00256K_zK_{zt}K_dV^2$ (29.3.2 & 29.4)

C_f= 1.800 (Fig. 29.3-1) 1.00 0 max. height= 8.0

K_{zt}= 1.0 (26.8.2) (=1.0 unless unusual landscape)

K_z= from table 28.3-1 Exposure= c

K_d= 0.85 for signs (table 26.6-1)

V= 100 mph

G= 0.85 (26.9) weight= 0.038 kips

s/h= 0.208 M_{DL}= 0.00 k-ft

B/s= 1.00

Pole Loads	structure component	height at section c.g.	K_z	q_z	pressure q_z*G*C_f	A_f	shear	Wind Moment M_W			
	1	3.17	0.850	18.5	28.30	1.1	30	95			
	2	7.17	0.850	18.5	28.30	2.8	79	563			
					sums:	3.8	108	0.66	(M_w)	k-ft	arm= 6.1

P_u= 0.05 kip M= 0.66 k-ft $M=\sqrt{M_{DL}^2+M_w^2}$

$M_u=\sqrt{1.2M_{DL}^2+1.0M_W^2}$ = 0.66 k-ft

Pole Design section; tube

$M_u \le \phi M_n$ with $M_n = f_yZ$ f_y= 46 ksi ϕ= 0.9

H	M_u(k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at grade	0.66	0.19	1	0.11	0.3	2x2x1/8" SQ. HSS, ϕMn=2.02 k-ft

Footing Design footprint: round

ω= 1.3 IBC 1605.3.2 IBC Table 1806.2, sections 1806.3.4, 1807.3.2 S=(1.3x2x150 psf/ft)

P= 0.08 kip S1 = S x d / 3 A = 2.34 x P / (S1 x b) S= 400

S1= 316 d =0.5xA (1+ (1+4.36x h/A) ^.5) IBC 1807.3.2.1

A= 0.63

footing: **1' - 0" dia.** **2' - 4" deep**