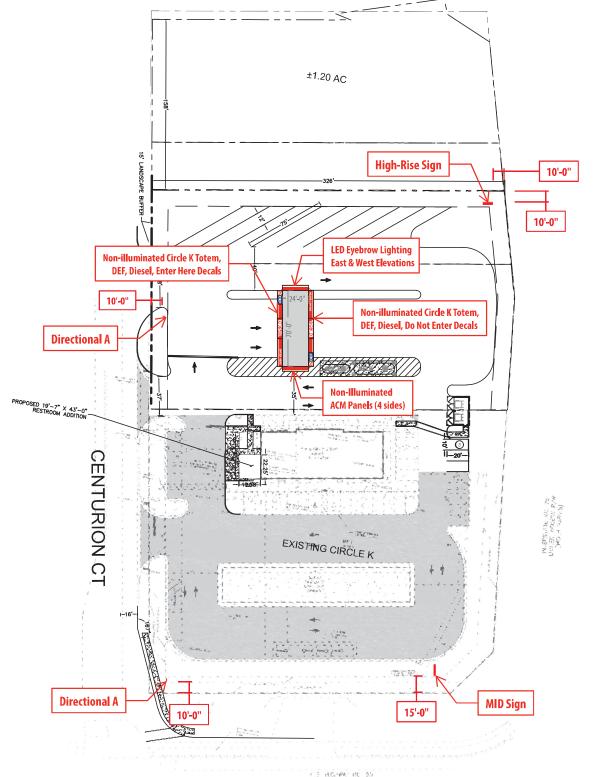
US HWY 90 & CENTURION CT



CIRCLE K



U.S. HWY 90



CUSTOMER
CIRCLE K
SITE NUMBER

9831

LAKE CITY, FL

ACCOUNT REP

BEN DEHAYES

DRAWN BYKL **DATE**10/07/22

03

SCALE

NTS

5563 N ELSTON AVE. CHICAGO, IL 60630 P: 773-763-9600 | F: 773-763-9606 CORPORATEIDSOLUTIONS.COM

CORPORATE ID SOLUTIONS

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STATE OF

S/ONAL TO

1200 N Federal Hwy, #200 **Christian Langley**Boca Raton, FL 33432 Florida PE #67382
1-888-371-3113 Cert of Aufh #31124

• Sign Height = 30 ft max • Solid freestanding sign above grade: \pm **29.0 psf** • Kzt=1.0, Kd=0.85, G=0.85 • Cf=1.85 (w/h ratio = 0.2 to 10, any clearance ratio s/h)

•V=120 mph •Risk Category 1 Struct. •Exposure 'C' •ASD Load Coeff = 0.6

RE DATE

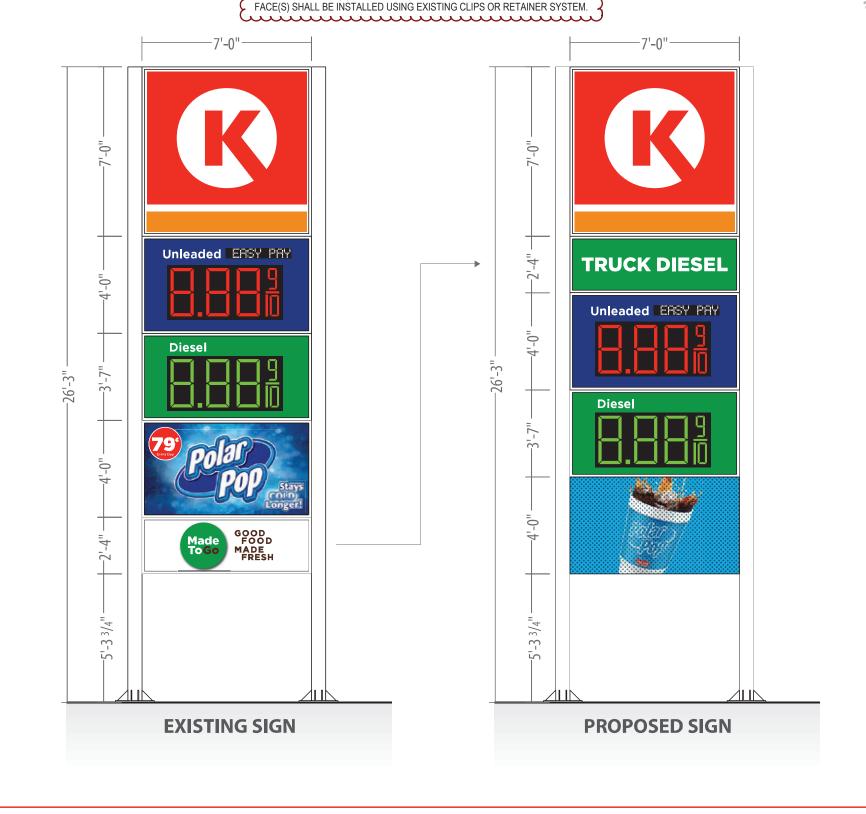
• Design is in accordance with the requirements of the Fla Bldg Code 7th Ed (2020) for use within & outside the High Velocity Hurricane Zone (HVHZ). • This engineering certifies only the electrical contractor. No electrical eview has been performed and no certification of such is intended. • Structural design meets requirements of ACI 318-14, AISC 360-16, ADM1-15, & NDS-18, NDS-18, NDS-18, NDS-18, and are the sole responsibility of the electrical contractor. No electrical eview has been performed and no certification of such is intended. • Structural design meets requirements of ACI 318-14, AISC 360-16, ADM1-15, & NDS-18, NDS-18,



SCOPE OF WORK

- Re-use existing cabinets
- Move existing Made To Go cabinet underneath Circle K
- New Truck Diesel faces faces
- New Electronic Message Center

FIELD VERIFY PRIOR TO MANUFACTURE



REPLACEMENT FACE(S) SHALL NOT EXCEED EXISTING SIGNAGE OVERALL STRUCTURE & FOOTING(S) UNDER REPLACEMENT SIGN FACE(S) ARE

EXISTING FOOTING(S) & SUPPORT STRUCTURE MAY REMAIN. REPLACEMENT



CUSTOMER CIRCLE K

LOCATION LAKE CITY, FL

BEN DEHAYES

DRAWN BY

10/07/22

REVISION 03 SCALE

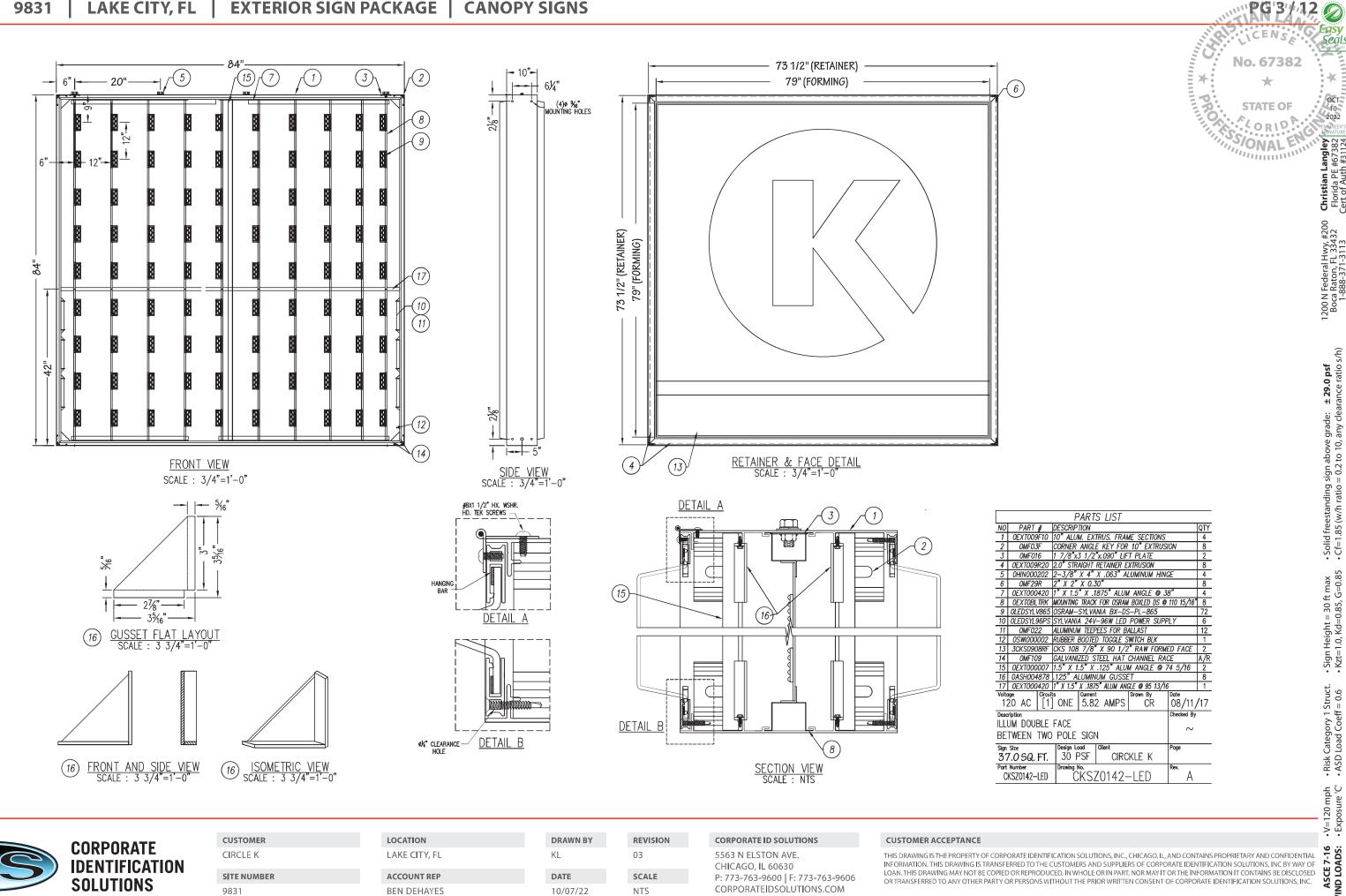
NTS

CORPORATE ID SOLUTIONS CHICAGO, IL 60630 P: 773-763-9600 | F: 773-763-9606

CUSTOMER ACCEPTANCE

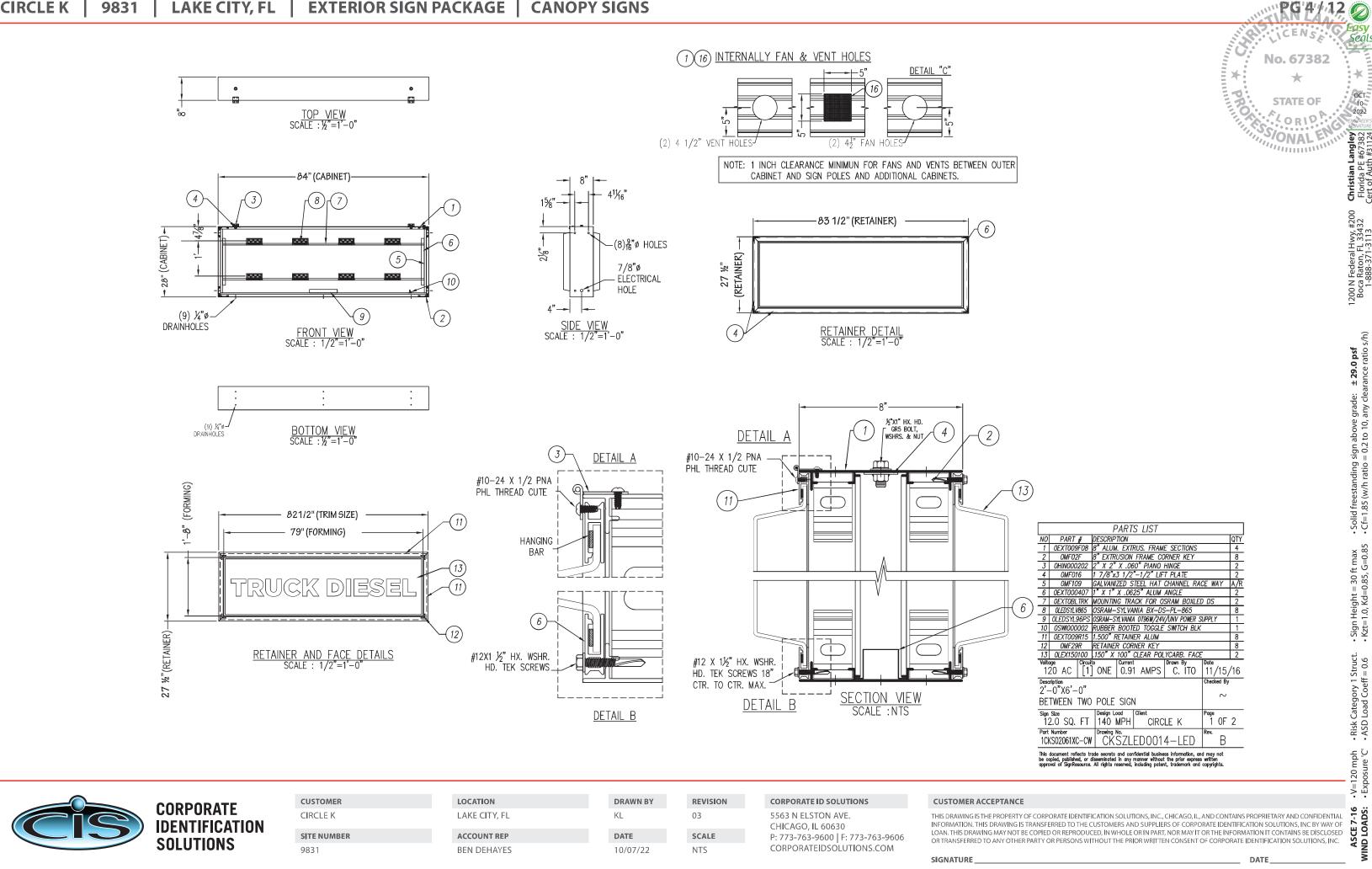
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• Sign Height = 30 ft max • Solid freestanding sign above grade: ± 29.0 psf • Kzt=1.0, Kd=0.85, G=0.85 • Cf=1.85 (w/h ratio = 0.2 to 10, any clearance ratio s/h)



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TOP VIEW

FRONT VIEW

(9)1/4" DRAINHOLES

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

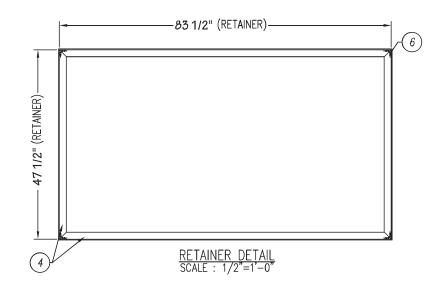
BOTTOM VIEW

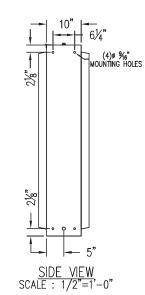
(2) 4 1/2" VENT HOLES

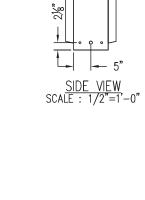
(2) $4\frac{1}{2}$ " FAN HOLES

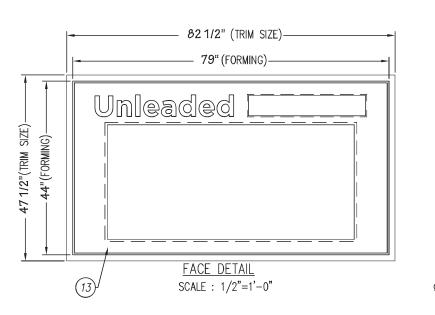
10(11)

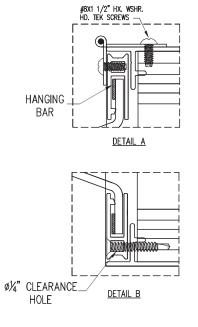
NOTE: 1 INCH CLEARANCE MINIMUN FOR FANS AND VENTS BETWEEN OUTER CABINET AND SIGN POLES AND ADDITIONAL CABINETS.

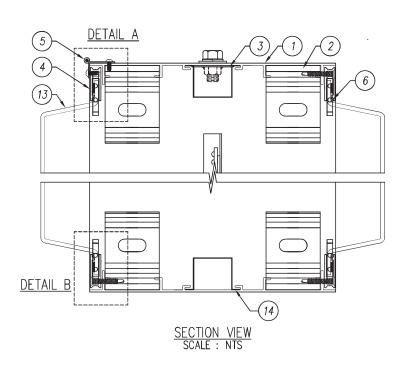












	PARTS LIST	
PART #	DESCRIPTION	QTY
0EXT009F10	10" ALUM. EXTRUS. FRAME SECTIONS	4
OMF03F	CORNER ANGLE KEY FOR 10" EXTRUSION	8
OMF016	1 7/8"x3 1/2"x.090" LIFT PLATE	2
0EXT009R20	2.0" STRAIGHT RETAINER EXTRUSION	8
0HIN000202		8
OMF29R	2" X 2" X 0.30"	8
0EXT000420	1" X 1.5" X .1875" ALUM ANGLE @ 3"	2
0EXT0BLTRK	MOUNTING TRACK FOR OSRAM BOXLED DS @ 92 9/16"	1
OLEDSYLS865	SYLVANIA BOXLED PLUS SS 6500K	6
OLEDSYL75PS	SYLVANIA 24V-75W LED POWER SUPPLY	1
OMF022	ALUMINUM TEEPEES FOR BALLAST	2
0SW1000002	RUBBER BOOTED TOGGLE SWITCH BLK	1
3SRFF50X91X-177	FORM: 50" X 91" X 2 1/4" FORMED FACE	2
OMF109	GALVANIZED STEEL HAT CHANNEL RACE	A/R
0ASH000205	.063 X 48 x 120 ALUM SHEET PERF 1/8	4
0EXT000412		2
0ASH000026	ALUMINUM FAN COVER (SEE PAGE 3)	1
		1
		/17
UM DOUBLE	FACE	
2.5 SQ FT	30 PSF CIRCKLE K 1 OF	2
Number SZLED0110-LEI	Drawing No. Rev. A	
	OLCKSZLEDO110-LED L. A.	
֡	OEXTOO9F10 OMF03F OMF016 OEXTOO9R20 OHIN000202 OMF29R OEXTOO0420 OEXTOBL TRK OLEDSYLS865 OLEDSYLSF9S OMF022 OSW000002 3SRF50X91X-177 OMF109 OASH000205 OEXTO00412 OASH000026 OEXTO00406 OEXTOO0412 OASH000026 OEXTO00406 OEXTO00406 OEXTOO0406 OEX	PART

No. 67382

STATE OI

S/ONAL THE

•V=120 mph •Risk Category 1 Struct. • Sign Height = 30 ft max • Solid freestanding sign above grade: \pm **29.0 psf** • Exposure 'C' • ASD Load Coeff = 0.6 • Kzt=1.0, Kd=0.85, G=0.85 • Cf=1.85 (w/h ratio = 0.2 to 10, any clearance ratio s/h)



CUSTOMER CIRCLE K SITE NUMBER 9831

LOCATION LAKE CITY, FL **ACCOUNT REP BEN DEHAYES**

DRAWN BY KLDATE 10/07/22

REVISION **CORPORATE ID SOLUTIONS** 5563 N ELSTON AVE. CHICAGO, IL 60630 SCALE P: 773-763-9600 | F: 773-763-9606 CORPORATEIDSOLUTIONS.COM

CUSTOMER ACCEPTANCE

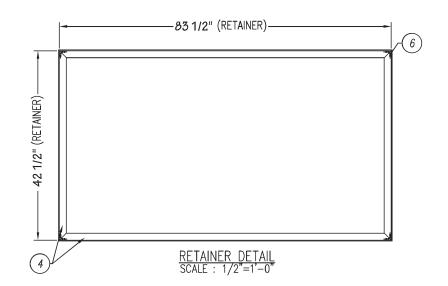
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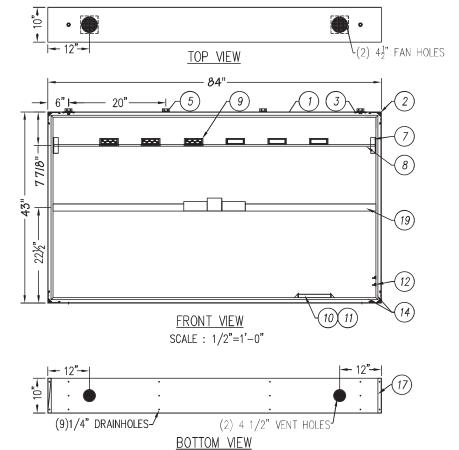
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03

NTS

NOTE: 1 INCH CLEARANCE MINIMUN FOR FANS AND VENTS BETWEEN OUTER CABINET AND SIGN POLES AND ADDITIONAL CABINETS.



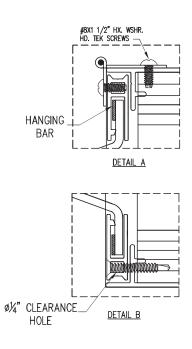


82 1/2" (TRIM SIZE) 79" (FORMING)

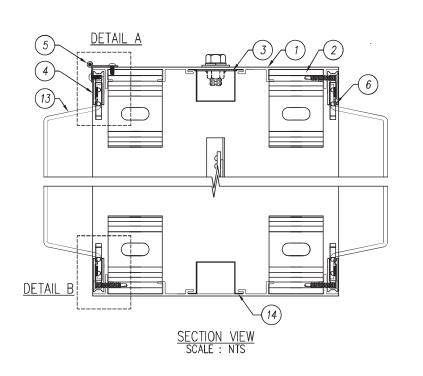
FACE DETAIL

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

Diesel



(4)ø %6" MOUNTING HOLES



		PARTS LIST		
VO	PART #	DESCRIPTION	QTY	
1	0EXT009F10	O" ALUM. EXTRUS. FRAME SECTIONS		
2	OMF03F	ORNER ANGLE KEY FOR 10" EXTRUSION		
2 3 4	OMF016	1 7/8"x3 1/2"x.090" LIFT PLATE	2	
4	0EXT009R20	2.0" STRAIGHT RETAINER EXTRUSION	8	
5 6	OHIN000202	2-3/8" X 4" X .063" ALUMINUM HINGE	8	
6	OMF29R	2" X 2" X 0.30"	8	
7	0EXT000420	1" X 1.5" X .1875" ALUM ANGLE @ 3"	2	
8	0EXT0BLTRK	MOUNTING TRACK FOR OSRAM BOXLED DS @ 92 9/16"	1	
9		SYLVANIA BOXLED PLUS SS 6500K	6	
10	OLEDSYL75PS	SYLVANIA 24V-75W LED POWER SUPPLY	2	
11	OMFO22 ALUMINUM TEEPEES FOR BALLAST			
12	OSWIOOOOO2 RUBBER BOOTED TOGGLE SWITCH BLK			
13	3SRFF50X91X-177 FORM: 50" X 91" X 2 1/4" FORMED FACE			
14				
16	6 0ASH000205 .063 X 48 x 120 ALUM SHEET PERF 1/8			
17	0EXT000412	1" X 1" X .125" ALUM ANGLE @ 10"	2	
18	0ASH000026	ALUMINUM FAN COVER (SEE PAGE 3)	1	
19		2" X 2" X .125" ALUM ANGLE @ 95 13/16	1	
olto 12	ige Circuit		/17	
esc	ription	Checked By		
Ш	ÚM DOUBLE	FACE		
	ETWEEN TWO POLE SIGN			
ign	Size	Design Load Client Page		
22	2.5 SQ FT	30 PSF CIRCKLE K 1 OF	2	
	Number	Drawing No. Rev.		
CKS	SZLED0110-LED	CKSZLED0110-LED A		

No. 67382

STATE O

S/ONAL TO

•V=120 mph •Risk Category 1 Struct. • Sign Height = 30 ft max • Solid freestanding sign above grade: \pm **29.0 psf** • Exposure 'C' • ASD Load Coeff = 0.6 • Kzt=1.0, Kd=0.85, G=0.85 • Cf=1.85 (w/h ratio = 0.2 to 10, any clearance ratio s/h)



42 1/2"(TRIM SIZE) 40" (FORMING)

> CUSTOMER CIRCLE K SITE NUMBER 9831

LOCATION LAKE CITY, FL **ACCOUNT REP BEN DEHAYES**

DRAWN BY KLDATE 10/07/22

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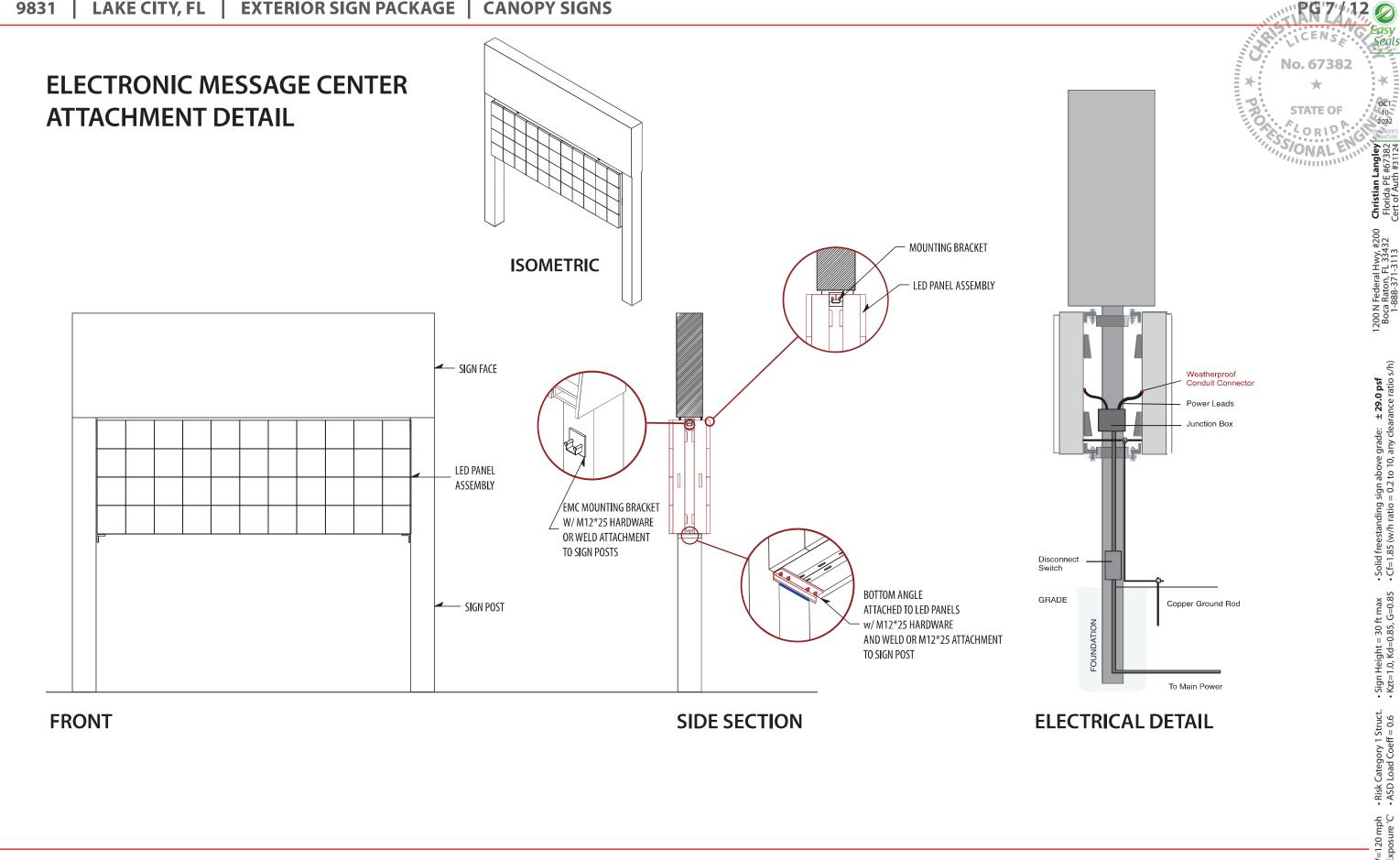
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03

NTS





CUSTOMER
CIRCLE K
SITE NUMBER

LAKE CITY, FL

ACCOUNT REP

BEN DEHAYES

DRAWN BY
KL

DATE

10/07/22

REVISION 03 SCALE CORPORATE ID SOLUTIONS

5563 N ELSTON AVE.
CHICAGO, IL 60630
P: 773-763-9600 | F: 773-763-9606
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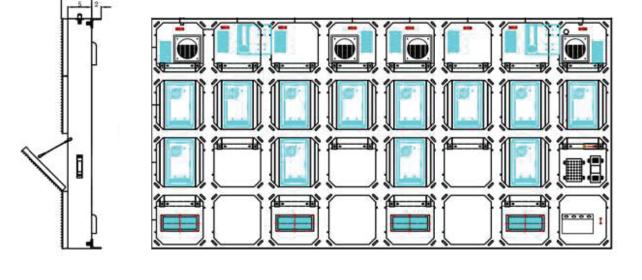
CUSTOMER ACCEPTANCE

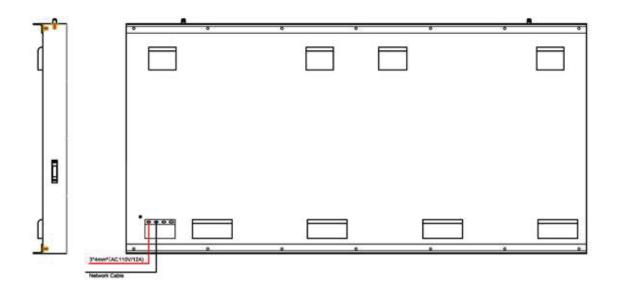
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Pixel Pitch (Resolution)	9.5 mm	15.25 mm	
The state of the s	A RESIDENCE	5.000.000	
LED Package Type	SMD	DIP	
Pixels Per Sq. Foot (Density)	1024	400	
Module Dimensions	12" x 12" (304.8mm x 304.8mm)	12" x 12" (304.8mm x 304.8mm)	
Module Matrix	32 x 32	20 x 20	
Module Weight	3 LB (1.4KG)	4.5 LB (2 KG)	
Driving Method	1/2 constant current	Static	
Refresh Rate	≥ 3840 Hz	≥ 3840 Hz	
Grayscale	65536 (281 trillion colors)	65536 (281 trillion colors)	
Color Depth	16 Bit	16 Bit	
Contrast Ratio	3000 : 1	3000 : 1	
Brightness	≥ 7000 Nits	≥ 10000 Nits	
Brightness Control	256 levels	256 levels	
Ideal Viewing Range	28° or greater	52° or greater	
Ideal Viewing Angle	160°(H) / 120°(V)	120°(H) / 60°(V)	
Max. Power Consumption	70W/Ft ² (750W/m ²) 0.59amps/Ft ² @ 120VAC	35W/Ft ² (380W/m ²) 0.29amps/Ft ² @ 120VAC	
Avg. Power Consumption	23W/Ft ² (250W/m ²)	11W/Ft ² (120W/m ²)	
Input Voltage	88 - 264VAC	88 - 264VAC	
Ingress Protection	IP67 front / IP55 rear	IP67 front / IP55 rear	
Operating Temperature	-40°F to +140°F (-40°C to +60°C)	-40°F to +140°F (-40°C to +60°C)	
MTBF	≥ 5000 hours	≥ 5000 hours	
LED Life Span	100,000 hours	100,000 hours	
Cabinent Size	Custom	Custom	
Cabinent Material	Aluminum	Aluminum	
	7.78 LB/Ft ² (38 KG/m ²)	9 LB/Ft ² (45 KG/m ²)	

CORPORATE IDENTIFICATION SOLUTIONS

CUSTOMER CIRCLE K SITE NUMBER

9831

LOCATION LAKE CITY, FL **ACCOUNT REP**

BEN DEHAYES

DRAWN BY KL DATE 10/07/22

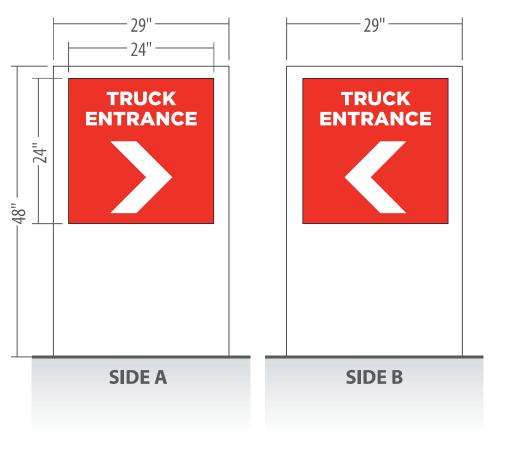
REVISION 03 SCALE NTS

CORPORATE ID SOLUTIONS 5563 N ELSTON AVE. CHICAGO, IL 60630 P: 773-763-9600 | F: 773-763-9606 CORPORATEIDSOLUTIONS.COM

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QTY (2)



DIRECTIONAL A ILLUMINATED 4.0 SF



CUSTOMER CIRCLE K

9831

LOCATION LAKE CITY, FL ACCOUNT REP

BEN DEHAYES

DRAWN BY KL

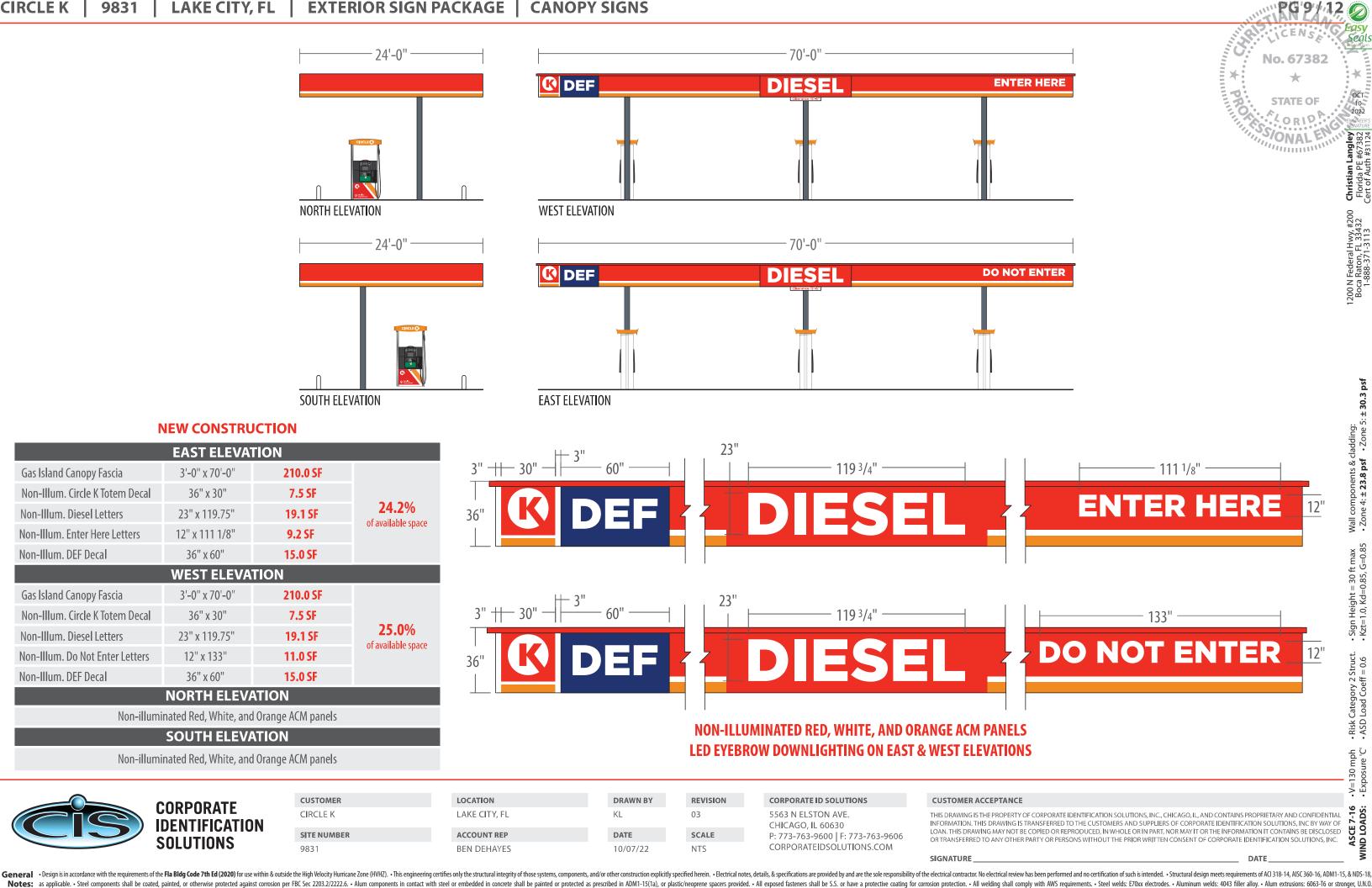
10/07/22

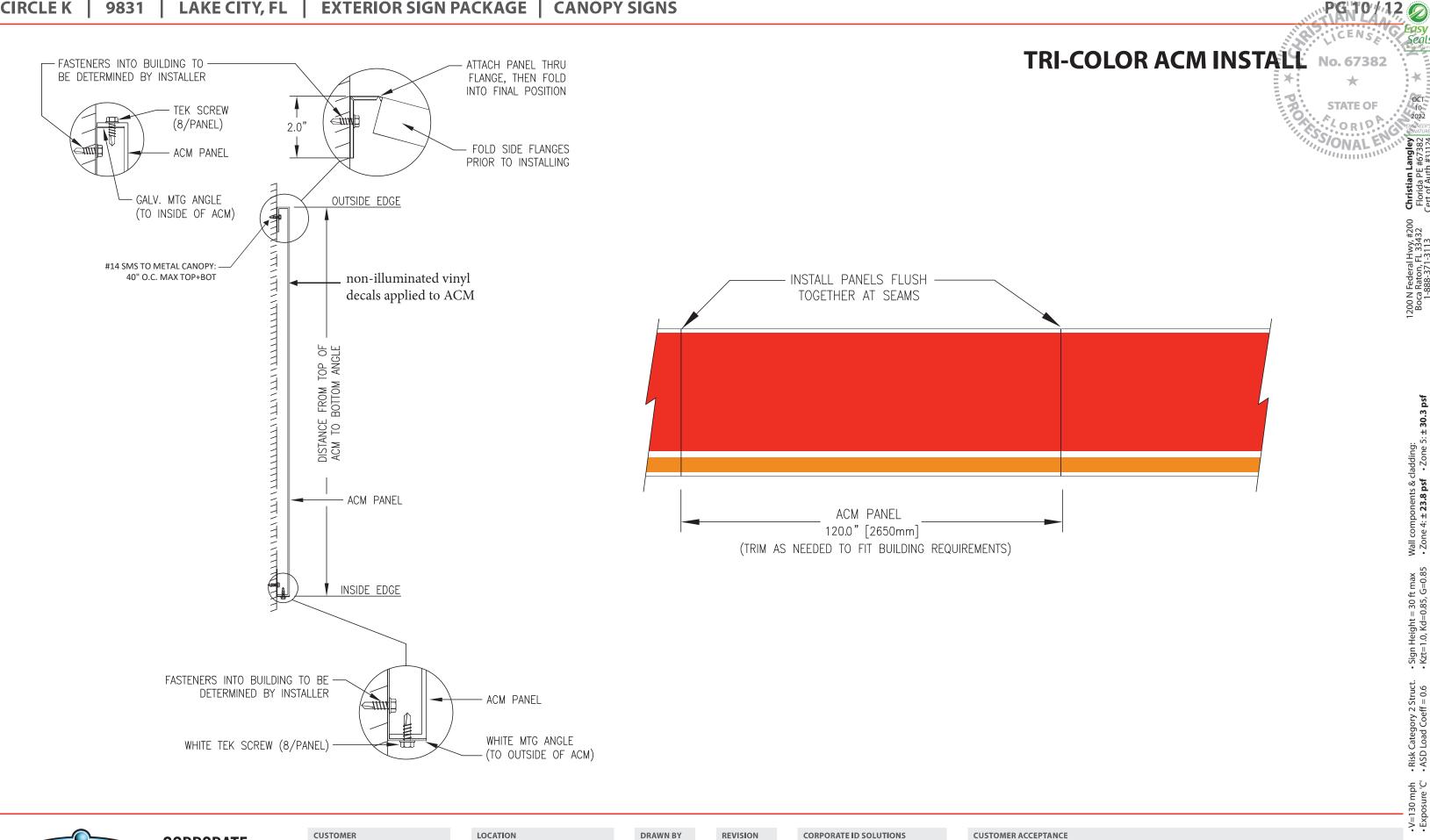
REVISION 03 SCALE NTS

CORPORATE ID SOLUTIONS 5563 N ELSTON AVE. CHICAGO, IL 60630 P: 773-763-9600 | F: 773-763-9606 CORPORATEIDSOLUTIONS.COM

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CUSTOMER CIRCLE K

9831

LAKE CITY, FL **ACCOUNT REP**

BEN DEHAYES

KL

10/07/22

REVISION 03 SCALE

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DESIGN CALCULATIONS

FOR

CIRCLE K #9831 MID: REPL FACES AT PYLON

US HWY 90 & Centurion Ct - Lake City

GENERAL NOTES:

- 1. Design is in accordance with the Florida Building Code 7th Edition (2020) for use within and outside the High Velocity Hurricane Zone (HVHZ).
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Engineer's signature and seal valid for pages 1 through 3

No. 67382

STATE OF Oct 10 2022

Christian Langley RE

PE # 67382

Easy Seals Cert Auth # 31124



ASCE 7-16 Design Wind Loads

FREESTANDING SOLID SIGNS (ELEVATED)

Building Specs

V =	120 mph	Basic wind speed (Vult)	Risk Category 1 Stru	ıcture
Exposure	С		ASD Load Combo Coeff:	0.6

Calculations

 α = 9.5 3-sec gust speed power law exponent z_g = 900' Nominal ht. of atmos. boundary layer G = 0.85

Kd =	0.85	Directionality factor		
Kzt =	1.0	Topographic factor		
Ke =	1.0	Ground elevation factor		
Cf =	1.85	Force Coefficient		
Width / Height ratio = 0.2 to 10				

120 mph - Exp "C"			
Elevate	ed Signs		
W/Ht Ratio	= 0.2 to 2.0		
	DESIGN		
SIGN	WIND		
HEIGHT	PRESSURES		
15 ft	± 25.1 psf		
18 ft	± 26.1 psf		
20 ft	± 26.7 psf		
30 ft	± 29.0 psf		
35 ft	± 30.0 psf		
40 ft	± 30.9 psf		
45 ft	± 31.6 psf		
50 ft	± 32.3 psf		
55 ft	± 33.0 psf		
60 ft	± 33.6 psf		
70 ft	± 34.7 psf		
80 ft	± 35.7 psf		
90 ft	± 36.6 psf		
100 ft	± 37.4 psf		
110 ft	± 38.2 psf		
120 ft	± 38.9 psf		
130 ft	± 39.5 psf		
140 ft	± 40.2 psf		
150 ft	± 40.8 psf		
175 ft	± 42.1 psf		

200 ft

250 ft

± 43.3 psf

± 45.4 psf

= K2	
<u> </u>	q_z
0.85	16.0
0.88	16.6
0.90	17.0
0.98	18.5
1.01	19.1
1.04	19.6
1.07	20.1
1.09	20.6
1.12	21.0
1.14	21.4
1.17	22.1
1.21	22.7
1.24	23.3
1.27	23.8
1.29	24.3
1.32	24.7
1.34	25.1
1.36	25.5
1.38	25.9
1.42	26.8
1.46	27.5
1.53	28.9



Foundation Design Check (Existing Structure)

Comparison of Reactions Under Proposed Signage vs Existing Signage

Structure Dimensions & Loading

Design wind pressure: $P = \frac{29.0}{}$ psf

Overturning Safety Factor: $\Omega = 1.5$... FBC 1807.2.3

Existing Signage

Sign area 1: A1 = 73.2 sq ft ... tributary area 1 for each footer (e.g. sign)

Height of applied force above grade: h1 = 15.8 ft ... height of area 1 centroid

Sign area 2: A2 = 0.0 sq ft ... tributary area 2 for each footer (e.g. post)

Height of applied force above grade: h2 = 0.0 ft ... height of area 2 centroid

Overturning Moment:

Mne = P*(A1*h1+A2*h2)

Mne = 33.6 kip-ft

Proposed Signage

Sign area 1: A1 = 73.2 sq ft ... tributary area 1 for each footer (e.g. sign)

Height of applied force above grade: h1 = 15.8 ft ... height of area 1 centroid

Sign area 2: A2 = 0.0 sq ft ... tributary area 2 for each footer (e.g. post)

Height of applied force above grade: h2 = 0.0 ft ... height of area 2 centroid

Overturning Moment:

Mnp = P*(A1*h1+A2*h2)

Mnp = 33.6 kip-ft Mnp < Mne OK



DESIGN CALCULATIONS

FOR

CIRCLE K #9831 DIRECTIONALS

US HWY 90 & Centurion Ct - Lake City

GENERAL NOTES:

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Engineer's signature and seal valid for pages 1 through 4

No. 6/382

★
STATE OF

Oct 10 2022 Christian Langley

PE # 67382

Easy Seals Cert Auth # 31124



ASCE 7-16 Design Wind Loads

FREESTANDING SOLID SIGNS (ELEVATED)

Building Specs

V =	120 mph	Basic wind speed (Vult)	Risk Category 1 Stru	ıcture
Exposure	С		ASD Load Combo Coeff:	0.6

Calculations

 α = 9.5 3-sec gust speed power law exponent z_g = 900' Nominal ht. of atmos. boundary layer G = 0.85

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Cf =	1.85	Force Coefficient		
Width / Height ratio = 0.2 to 10				

	120 mph - Exp "C"				
Elevate	ed Signs				
W/Ht Ratio	= 0.2 to 2.0				
	DESIGN				
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HEIGHT	PRESSURES				
15 ft	± 25.1 psf				
18 ft	± 26.1 psf				
20 ft	± 26.7 psf				
30 ft	± 29.0 psf				
35 ft	± 30.0 psf				
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50 ft	± 32.3 psf				
55 ft	± 33.0 psf				
60 ft	± 33.6 psf				
70 ft	± 34.7 psf				
80 ft	± 35.7 psf				
90 ft	± 36.6 psf				
100 ft	± 37.4 psf				
110 ft	± 38.2 psf				
120 ft	± 38.9 psf				
130 ft	± 39.5 psf				
140 ft	± 40.2 psf				
150 ft	± 40.8 psf				
175 ft	± 42.1 psf				

200 ft

250 ft

± 43.3 psf

± 45.4 psf

= K2	
<u> </u>	q_z
0.85	16.0
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1.29	24.3
1.32	24.7
1.34	25.1
1.36	25.5
1.38	25.9
1.42	26.8
1.46	27.5
1.53	28.9



Footing Design for Freestanding Signs

Structure Dimensions & Loading

Design wind pressure: $P = \frac{29.0}{}$ psf

Overturning Safety Factor: $\Omega = 1.5$... FBC 1807.2.3

Sign area 1: A1 = 4.8 sq ft ... tributary area 1 for each footer (e.g. sign)

Height of applied force above grade: h1 = 2.0 ft ... height of area 1 centroid

Sign area 2: A2 = 0.0 sq ft ... tributary area 2 for each footer (e.g. post)

Height of applied force above grade: h2 = 0.0 ft ... height of area 2 centroid

Overturning Moment: Mn = P*(A1*h1+A2*h2)

 $Mn = 0.3 \quad \text{kip-ft}$

Round Footing Diameter: B = 1 ft

Footing depth: $d = \frac{2.5}{ft}$ ft Soil cover: $ds = \frac{0}{ft}$

Superstructure weight: Dr = 200 lb

Soil cover weight: Ds = 0 lb ... = $100pcf*\pi*B^2/4*ds$ Footing weight: Df = 295 lb ... = $150pcf*\pi*B^2/4*d$

Total weight: D = 495 lb ... = 150pct 7(*B*2/4*

Soil Strength

...FBC Tables 1806.2, 1819.6

Soil class: 4. Sand, silty sand, silty gravel

Lateral bearing strength: Plat = 150 psf/ft Vertical bearing strength: Pbrg = 2000 psf

Check Lateral Soil Bearing Pressures

(Empirical Method) ...FBC Sect 1807.3.2.1

Unconstrained

(No rigid floor or pavement at ground surface)

Allowable lateral soil bearing pressure at 1/3 depth:

S1 = 2*Plat* (d+ds)/3

S1 = 250 psf

Total applied lateral load: Ptot = 0.14 kips Equiv ht of applied load: heq = 2.00 ft

As = 2.34*Ptot/(S1*B)

As = 1.3 ft

dreq = As/2 * [1 + V(1+4.36*heq/As)]

dreg = 2.47 ft

dreq < d

OK



ALUMINUM DESIGN MANUAL

Specifications for Aluminum Structures (Buildings)

Design Che	ck of 2.5"x2	2.5"x0.125"/	0.125" 6063	B-T6 Aluminun	n Tube		b
Alloy:	6063	Temper:	T6	Welded:	Υ		
SECTION PRO	PERTIES						th
	b	2.500"	Flange widt	h			
	tb	0.125"	Flange thick	ness		<u> </u>	- · # · · # · ·
	h	2.500"	Web height				
	th	0.125"	Web thickne	ess			
	lx	1.12 in^4	Moment of	Inertia about axi	s parallel t	to flange	
	ly	1.12 in^4	Moment of	Inertia about axi	s parallel t	to web	tb _
	Sc	0.90 in^3	Section mod	dulus, compressi	on side (al	oout X-axis)	
	rx	0.97 in	Radius of gy	ration about cer	troidal ax	is parallel to	flange
	ry	0.97 in	Radius of gy	ration about cer	troidal ax	is parallel to	web
	J	1.67 in^4	Torsion con	stant			
	Α	1.19 in^2	Cross sectio	nal area of mem	ber		
MEMBER SPA	ANS						
	L	10.0 ft	Unsupporte	d member lengt	h (betwee	n supports)	
	Lb	8.0 ft		ngth for bending			ainst side-sway)
	k	1.0	Effective ler	ngth factor			
MATERIAL PI	ROPERTIES						
Ftu	17 ksi	Tensile ultima	te strength				
Fty	8 ksi	Tensile yield s	_				
Fcy	8 ksi	Compressive y	_				
Fsu	11 ksi	Shear ultimate	•				
Ε	10,100 ksi	Compressive N	_	sticity			
	ALLOWABLE	STRESSES					
	Fh =	= 4.85 ksi	Allowable b	ending stress			

MEMBER LOADING

Fac = 2.79 ksi

WILIVIDER EOADING						
Design wir	nd pressure:	P =	29.0	psf	End Supports:	Cantiliever
	Sign area:	A1 =	4.8	sq ft	trib area for each post (e.g. sign+	-post)
Eccentricity of ap	oplied force:	e1 =	2.0	ft	dist to area centroid (weighted a	vg h1,h2)

Allowable axial stress, compression

Ren	ding	Mo	ments
DEL	שווווו	IVIUI	ments

enuing wo	<u>illelits</u>			
Mz	0.28 kip-ft	Bending moment developed in member	Ma = 0.36 kip-ft	
fb =	3.76 ksi	Bending stress developed in member		
Fb =	4.85 ksi	Allowable bending stress of member	fb < Fb	ОК



DESIGN CALCULATIONS

FOR

CIRCLE K #9831 PANELS AT FUEL CANOPY

US HWY 90 & Centurion Ct - Lake City

GENERAL NOTES:

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Engineer's signature and seal valid for pages 1 through 3

No. 67382

STATE OF Oct 10 2022

Christian Langley PE # 67382

Easy Seals Cert Auth # 31124



ASCE 7-16 Design Wind Loads

WALL-MOUNTED SIGNS

Building Specs

V =	130 mph	Basic wind speed (Vult)	
Exposure	С	ASD Load Combo Coeff:	0.6

Calculations

α = 9.5	3-sec gust speed power law exponent	Kd =	0.85	Directionality factor
$z_g = 900'$	Nominal ht. of atmos. boundary layer	Kzt =	1.0	Topographic factor
Gcpi = 0	Internal pressure coeff	Ke =	1.0	Ground elevation factor
		A =	10 sa ft	Tributary area

	mph - Exp					
WALL	-MOUNTED	SIGNS				
	-	PRESSURES				
SIGN	CENTER (Zone 4)	CORNER (Zone 5)	Kh = Kz	~	GCp (4)	GCp (5)
HEIGHT				q _z		
15 ft	20.6 psf	26.2 psf	0.85	18.7	-1.10	-1.40
20 ft	21.9 psf	27.9 psf	0.90	19.9	-1.10	-1.40
25 ft	22.9 psf	29.2 psf	0.95	20.9	-1.10	-1.40
30 ft	23.8 psf	30.3 psf	0.98	21.7	-1.10	-1.40
35 ft	24.6 psf	31.3 psf	1.01	22.4	-1.10	-1.40
40 ft	25.3 psf	32.2 psf	1.04	23.0	-1.10	-1.40
45 ft	26.0 psf	33.0 psf	1.07	23.6	-1.10	-1.40
50 ft	26.5 psf	33.8 psf	1.09	24.1	-1.10	-1.40
55 ft	27.1 psf	34.5 psf	1.12	24.6	-1.10	-1.40
60 ft	27.6 psf	35.1 psf	1.14	25.1	-1.10	-1.40
70 ft	23.3 psf	46.6 psf	1.17	25.9	-0.90	-1.80
80 ft	24.0 psf	48.0 psf	1.21	26.6	-0.90	-1.80
90 ft	24.6 psf	49.2 psf	1.24	27.3	-0.90	-1.80
100 ft	25.1 psf	50.3 psf	1.27	27.9	-0.90	-1.80
110 ft	25.6 psf	51.3 psf	1.29	28.5	-0.90	-1.80
120 ft	26.1 psf	52.2 psf	1.32	29.0	-0.90	-1.80
130 ft	26.6 psf	53.1 psf	1.34	29.5	-0.90	-1.80
140 ft	27.0 psf	54.0 psf	1.36	30.0	-0.90	-1.80
150 ft	27.4 psf	54.7 psf	1.38	30.4	-0.90	-1.80
175 ft	28.3 psf	56.6 psf	1.42	31.4	-0.90	-1.80
200 ft	29.1 psf	58.2 psf	1.46	32.3	-0.90	-1.80
250 ft	30.5 psf	61.0 psf	1.53	33.9	-0.90	-1.80



Wall Sign Anchor Design

Structure Dimensions & Loading

Design wind pressure: P = 30.3 psf

Sign type: Raceway

Sign size: h = 36.0 inches (height)

Wall material: Metal Steel studs or extrusions/shapes

Anchor type/size: #14 SMS

Ref: Min 18ga studs (grd 33) or 0.090" 6063-T6

Min Embedment: Full
Min edge dist: 0.75"

Anchor tensile capacity: Tcap = 152.0 lb (per anchor)

Check Anchors for Pullout

Total Reaction: Rt = 91 lb/ft ... = P^*h (along raceway) Anchor spacing req'd s = 40.1 in O.C. ... = $(2^*cap)/Rt$

Pairs of anchors at 40 inches on center (max)

3.3 feet on center

OK, use anchors at 40" O.C. max along top & bottom.