

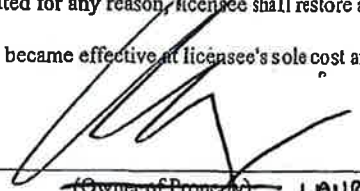
LICENSE AGREEMENT FOR PRIVATE ENCROACHMENTS
INTO THE PUBLIC RIGHT OF WAY

I/We, 2317 12th Ave South, LLC, in consideration of the Resolution No. _____, to construct, maintain, install and/or operate an encroachment into, onto, over, or under the public right of way located at in Nashville, Davidson County, Tennessee, do hereby, for myself, my agents, customers, and assigns, waive and release and hold harmless The Metropolitan Government of Nashville and Davidson County, its agents, employees, and assigns from any and all claims, rights, or demands for damages that may arise from my/our use, construction and/or maintenance of the encroachment, to wit: (SEE ATTACHED DESCRIPTION OF ENCROACHMENT). I/We hereby certify to the Metropolitan Government of Nashville and Davidson County that I/We have executed a bond or liability insurance policy in such amount as agreed upon by the Director of NDOT and the Metropolitan Attorney, and in the form approved by the Metropolitan Attorney (per Metropolitan Code Section 38-1-1), which operates to indemnify and save The Metropolitan Government of Nashville and Davidson County harmless from all claims or demands that may result to persons or property by reason of the construction, operations or maintenance of the encroachment. I/We further agree that my/our obligations hereunder may not be assigned except upon approval of the Director of NDOT and the Metropolitan Attorney. I/We further acknowledge that any action that results in a failure to maintain said bond or liability insurance for the protection of The Metropolitan Government of Nashville and Davidson County shall operate to the granting of a lien to The Metropolitan Government of Nashville and Davidson County in the amount of the last effective bond/insurance policy. Said insurance or bond may not be cancelable or expirable except on 30 days' notice to the Director of NDOT.

I/We further recognize that the license granted hereby is revocable by The Metropolitan Government upon recommendation of the Director of NDOT and approval by resolution of the Metropolitan County Council if it is determined to be necessary to the public welfare and convenience. In the event the Metropolitan Government revokes this license as contemplated by this paragraph, licensee will not be entitled to any compensation of any kind. This license shall also be strictly subject to the right of way easement owned by The Metropolitan Government. I/We agree to maintain, construct and use the encroachment in such a way as will not interfere with the rights and duties of the Metropolitan Government

as owner of the right of way. Said interference shall be additional grounds for revocation of the license for encroachment. I/We agree to pay the cost of construction, maintenance, use, as well as relocations cost of said encroachment. Licensee's failure to complete construction of the contemplated encroachment within 36 months of the date of approval by the Metropolitan Council will cause this license to terminate automatically. In the event the encroachment contemplated by this license is substantially destroyed, this license shall terminate unless fully restored by licensee within 36 months from the date of such destruction. In the event this license is revoked or terminated for any reason, licensee shall restore all public property to the condition obtaining at the time the license became effective at licensee's sole cost and expense.

DATE: 12.4.24


 (Owner of Property) LAUREN BAILEY, CEO
2317 12TH AVE S 2317 12TH AVE SOUTH, LLC
 (Address of Property) POSTINO WINECAFE
NASHVILLE, TN 37204
 (City and State)

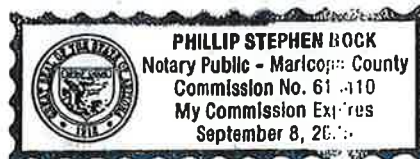
STATE OF Arizona ~~TENNESSEE~~
 COUNTY OF Maricopa ~~DAVIDSON~~

Sworn to and subscribed before

Me this 17 day of October, 2024

Phillip Stephen Rock
 (NOTARY PUBLIC)

My Commission Expires: September 8, 2025



JARVIS 11513009900
\$3500.00



RENDERING/MOCK-UP

C/O FORTIFY FABRICATION

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DESCRIPTION:

INSTALLATION OF BLADE SIGN FOR FORTIFY FABRICATION AT POSTINO RESTAURANT.
2317 12TH AVE. S., NASHVILLE, TN 37204

JARVIS SIGNS
DESIGN • BUILD • INSTALL • SERVICE



310 Madison St
Madison, TN 37115



615.865.6062



www.jarvisigns.com

Customer:

FORTIFY FABRICATION
109 LORRAINE AVE.
NASHVILLE, TN 37207

NICK REDFORD
615-492-9582 C
NICK@HEYFORTIFY.COM

PROJECT LOCATION:
POSTINO RESTAURANT
2317 12TH AVE. S.
NASHVILLE, TN 37204

File Location:

DESIGN/DRAWING/
F/FORTIFY FABRICATION
/POSTINO BLADE SIGN

Sign Type:

INSTALLATION

Drawn By: Project Manager:
DPEARSON NAME

Page No.:

SG. 1

Original
Date:
7/17/2024

Revised
Date: Rev #

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REDUCED DRAWING

Neon Blade Sign

Velded arrow with exposed
perimeter bulbs and red neon
script lettering.

Quantity	01
Electrical	120V, 3A
JL No.	TBD
Surface	Brick
Mounting	Fasteners

KEY:

- J-BOX W/ 120V SUPPLY
- WELDED STEEL ARMS W/ FAUX RUST
- EXPOSED MARQUEE BULBS
- RED NEON
- PAINTED STEEL CABINET

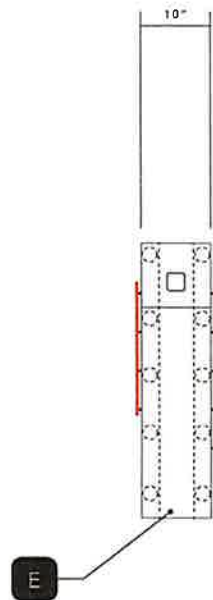
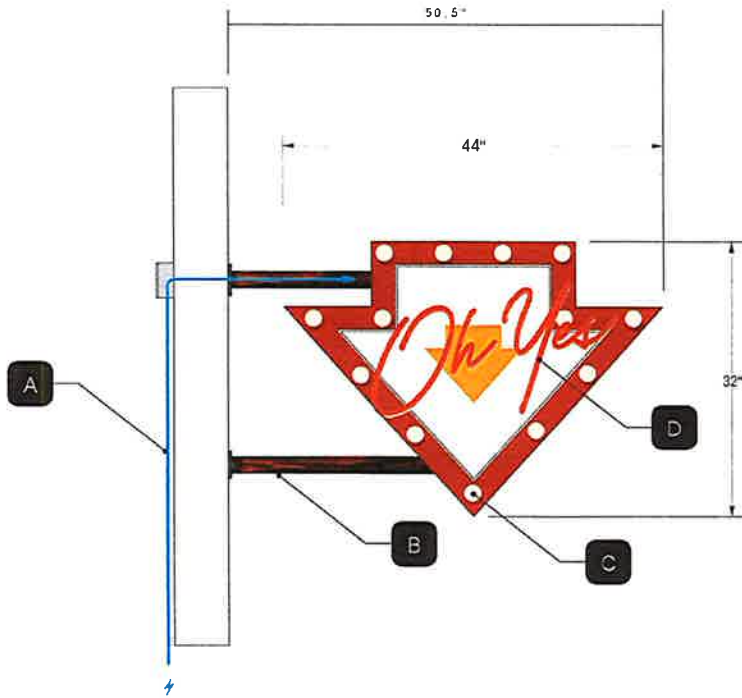
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POSTINO

01

FRONT

SIDE



SQ. FT. = 9.77

C/O FORTIFY FABRICATION

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NICK REDFORD
615-492-9562 C
NICK@HEYFORTIFY.COM

PROJECT LOCATION:
POSTINO RESTAURANT
2317 12TH AVE. S.
NASHVILLE, TN 37204

File Location:
DESIGN/DRAWING/
F/FORTIFY FABRICATION
/POSTINO BLADE SIGN

Sign Type:
INSTALLATION

Drawn By: Project Manager
DPEARSON NAME

Page No.:
SG. 2

Original Date: 7/17/2024	Revised Date:	Rev #
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REDUCTION DRAWING

Neon Blade Sign

Velded arrow with exposed
perimeter bulbs and red neon
cript lettering.

Quantity	01
Electrical	120V, 3A
JL No.	T8D
Surface	Brick
Mounting	Fasteners

NOTES

- J-BOX W/ 120V SUPPLY
- WELDED STEEL ARMS W/ FAUX RUST
- EXPOSED MARQUEE BULBS
- RED NEON
- PAINTED STEEL CAPTIFT
- CITY 4 THROUGH-BOLTS

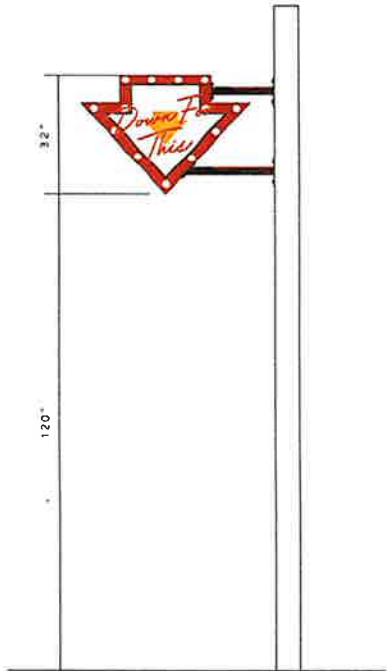
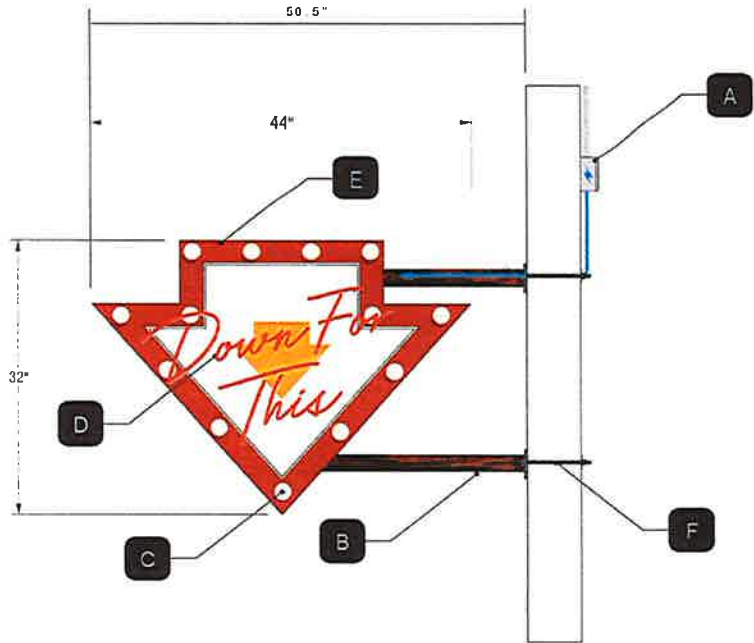
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POSTINO

03

BACK

ELEVATION



SQ. FT. = 9.77

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DESIGN/DRAWING/
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/POSTINO BLADE SIGN

Sign Type:
INSTALLATION

Drawn By: Project Manager
DPEARSON NAME

Page No.:
SG. 3

Original Date:	Revised Date:	Rev #
7/17/2024		

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REDUCTION DRAWING

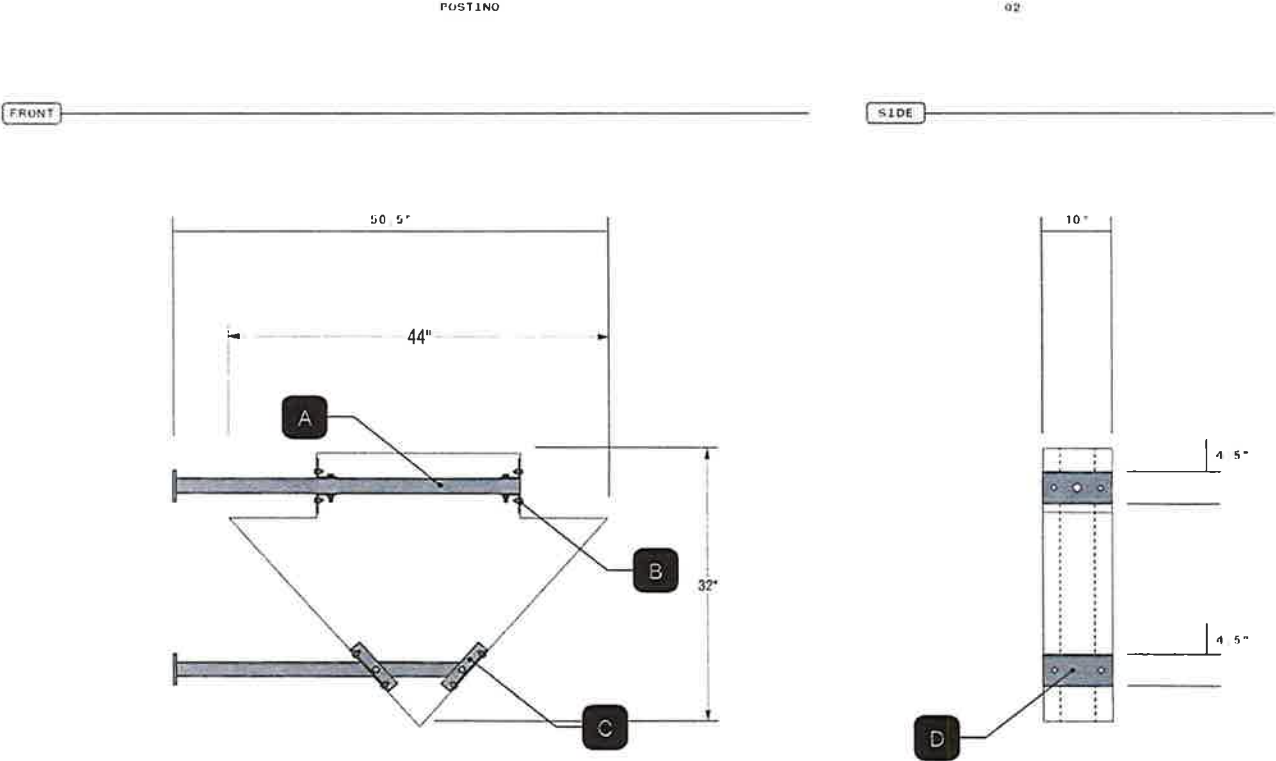
Neon Blade Sign

Velded arrow with exposed
erimeter bulbs and red neon
cript lettering.

Quantity	01
Electrical	120V, 3A
JL No.	TBD
Surface	Brick
Mounting	Fasteners

- FEES
- 1 5" STEEL SQ TUBE - 14 GAUGE
 - STEEL ANGLE BOLTED TO SIGN AND SUPPORT ARM
 - STEEL ANGLE BOLTED TO SIGN AND SUPPORT ARM
 - BASEPLATES

f



SQ. FT. = 9.77

C/O FORTIFY FABRICATION

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NICK@HEYFORTIFY.COM

PROJECT LOCATION:
POSTINO RESTAURANT
2317 12TH AVE. S.
NASHVILLE, TN 37204

File Location:
DESIGN/DRAWING/
F/FORTIFY FABRICATION
/POSTINO BLADE SIGN

Sign Type:
INSTALLATION

Drawn By: Project Manager
DPEARSON NAME

Page No.:
SG. 4

Original Date: 7/17/2024
Revised Date: Rev #

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Design Code:	IBC 2018/ASCE 7-16	Client:	Nick Redford
Wind Speed:	115 mph	Project #:	100x6178
Risk Categ:	II	Date:	7/15/2024
Exposure:	B	Facility Ref:	Postino
Wind load:	26.2 PSF	Address:	2317 12th Ave South
Monument or Pylon:	P 'M' or 'P'	City, ST:	Nashville, TN
'R'einforced or 'U'nreinforced Footing	R 'R' or 'U'	Sign Type:	Blade Sign

Area (sf)	% of Load	Load (psf)	Shape factor	Shear (k)	Centroid (ft)	Moment (k-ft)	Moment (k-ft) (Drilled)
5.00	85%	26.2	1	0.111	2.375	0.264	0.000
0.25	100%	26.2	1	0.007	1.000	0.007	0.000
0.00	100%	26.2	1	0.000	0.000	0.000	0.000
0.00	100%	26.2	1	0.000	0.000	0.000	0.000
0.00	100%	26.2	1	0.000	0.000	0.000	0.000
0.00	100%	26.2	1	0.000	0.000	0.000	0.000
0.00	100%	26.2	1	0.000	0.000	0.000	0.000
0.00	100%	26.2	1	0.000	0.000	0.000	0.000
base $V_x =$				0.12	base $M_x =$	0.27	0.00

Gusset Check:		No	Base Weld	
Weld Check:		Yes	Tube Weld Size =	3/16" Weld
Z =	0.41	F _y = 50 (HSS Square or HSS Rectangular)	Total Weld Str. (k-ft) =	1.04
F _r =	50		Capacity % =	26.5%
Φ =	0.9			
M _n = F _r Z =	1.7	Load Factor(LF) =		1
ΦM _n =	1.53	M _u = LF(M _n) =		0.27
1.50" Tall x	1.50" Wide x	0.188" Wall	17.8%	1.53 OK
Overturning Direction				

Flange in Flexural Compression:

$$b/t = 4.6$$

$$b = 0.801$$

$$\text{Compact Flange } b/t \text{ Limit: } 1.12(E/F_y)^{0.5} = 27.0$$

Is Flange Compact? Yes, Yielding Controls (F7-1)

$$\text{Non-Compact Flange } b/t \text{ Limit: } 1.40(E/F_y)^{0.5} = 33.7$$

Is Section Non-Compact? Yes, Use Lesser of (F7-1) AND (F7-2)

Yielding Check:

$$(F7-1) \quad M_n = M_p = F_y Z = 1.7$$

Flange Is Not Slender

(GOVERNING EQUATION)

Compression Flange Local Buckling

Non-Compact Flanges

$$(F7-2) \quad M_n = M_p - (M_p - F_y S_x) \left[(3.57 \left(\frac{b}{t} \sqrt{\frac{F_y}{E}} - 4.0 \right) \right] = 3.0$$

Slender Walled Flanges

$$b_c = 1.92 \sqrt{\frac{E}{F_y}} \left[1 - \left(\frac{0.38}{b \sqrt{\frac{F_y}{E}}} \right) \right] = -8.072$$

$$I_3 = -1.134$$

$$S_x = -1.512$$

$$(F7-3) \quad M_n = F_y S_x = -6.3$$

If Compact=(F7-1) OR If Non-Compact=(F7-2) OR If Slender=(F7-3) 1.7

Yielding and Flange Local Buckling Result $M_n = 1.7$

Web in Flexure:

$$h/t = 4.6$$

$$h = 0.801$$

$$\text{Compact Web } h/t \text{ Limit } 2.42 \sqrt{\frac{E}{F_y}} = 58.3$$

Is Web Compact? Yes, Web Buckling N/A, Use Yield & Flange Result

$$\text{Non-Compact Web } h/t \text{ Limit: } 5.70 \sqrt{\frac{E}{F_y}} = 137.3$$

Is Web Non-Compact? Yes, Use Lesser of (F7-5) AND Yield & Flange Result

$$(F7-5) \quad M_n = M_p - (M_p - F_y S_x) \left[(0.305 \left(\frac{h}{t} \sqrt{\frac{F_y}{E}} - 0.733 \right) \right] = 2.0$$

$$\text{Overall Result } M_n = 1.7$$

$$k\text{-ft}$$

Seal is applicable to calculation pages "C1" through "C3"



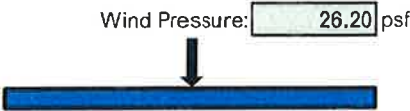


887 Seven Oaks Blvd. Suite 1010
Smyrna, TN 37167
615.890.9403 phone
615.890.3500 fax
elrodllc.com

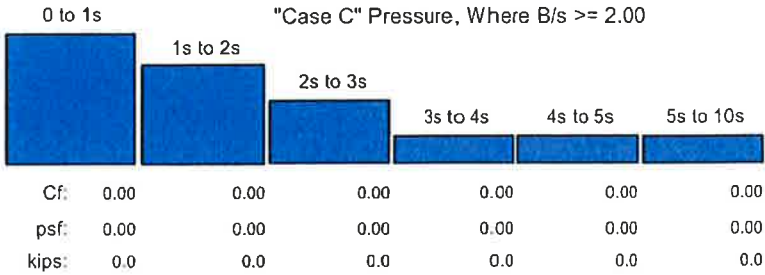
Design Code:	ASCE 7-16	Sign Name	
Wind Speed:	115 mph	Project #:	100x6178 Blade Sign
Risk Categ:	II	Date:	7/15/2024
Exposure:	B	Facility Ref:	Postino
Sign Width [B]:	3.667 ft.	Address:	2317 12th Ave South
Sign Height [s]:	2.667 ft.		Nashville, TN
Overall Height [h]:	12.667 ft. (Above Grade)		
Elevation:	554 ft. (Default "0") (Elevation Above Sea Level)		

Wind Velocity Pressure 26.10.2

$P = q_z G C_f = 26.20 \text{ psf}$
 $q_z = 0.00256 K_z K_{zt} K_d K_e V^2 = 16.21 \text{ psf}$



K_z :	0.5747	Table 26.10-1
K_{zt} :	1.00	Sect. 26.8.2
K_d :	0.85	Table 26.6-1
K_e :	0.98	Sect. 26.9 & Table 26.9-1
V^2 :	13225	Wind Speed
G :	0.898	Sect. 26.11.4
Q :	0.954	Sect. 26.11.4
C_f :	1.80	Fig. 29.3-1
s/h :	0.21	
B/s :	1.37	
gq :	3.40	
l_z :	0.30480	
g_v :	3.40	
$\bar{z}$:	30.00	
c :	0.30	
z_{min} :	30.00	
l :	320.00	
$\bar{\epsilon}$:	0.33	
L_z :	309.99	



Load Combinations

LRFD

- 1. 1.4D
- 2. 1.2D + 1.6L + 0.5(Lr or S or R)
- 3. 1.2D + 1.6(Lr or S or R)+(L or 0.5W)
- 4. 1.2D + 1.0W + L + 0.5(Lr or S or R)
- 5. 0.9D + 1.0W

ASD

- 1. 1.0D
- 2. 1.0D +1.0L
- 3. 1.0D +1.0(Lr or S or R)
- 4. 1.0D + 0.75L + 0.75(Lr or S or R)
- 5. 1.0D + 0.6W
- 6. 1.0D + 0.75L + 0.75(0.6W) + 0.75(Lr or S or R)
- 7. 0.6D + 0.6W

Analysis of Steel Base Plate w/ Steel Anchor Bolts

(AISC Steel Construction Manual - 14th Edition - LRFD)

100x6178

Blade Sign

ASCE 7- 16

 $PL_{th} = 0.375$ (in.) Plate Thickness

 $PL_{bl} = 4.5$ (in.) Plate Bend Line Length (See Sketches for Examples)

 $L_c = 2.75$ (in.) Cantilever Length of Plate (See Sketches for Examples)

 $PL_{F_y} = 36$ (ksi) Plate Material Yield Stress | $F_y = 36(A36)$
 $PL_{F_u} = 58$ (ksi) Plate Material Ultimate Tensile Stress | $F_u = 58(A36)$
 $B_{da} = 0.5$ (in.) Anchor Bolt Diameter

 $n_b = 2$ (Qty) Total Number of Anchor Bolts in the Base Plate (Symmetrical)

 $d = 7$ (in.) Distance Between Bolts (In Direction of Overturning)

 $F_u = 58$ (ksi) Bolt Material Ultimate Tensile Stress | $F_u = 58(F1554 \text{ Gr } 36), =75(Gr55), =125(Gr105), \text{ or } =60(A307)$

Threads Excluded? **N** (Yes or No) Are Threads Excluded From the Shear Plane?

 $M = 0.27$ (kip-ft) Bending Moment at Match Plate (Unfactored Load Effects)

 $V = 0.12$ (kip) Shear Force at Match Plate (Unfactored Load Effects)

 $A_b = 0.19635$ (in²) Nominal Area of Anchor Bolt = $\pi r^2 = \pi(B_{da}/2)^2$
 $F_{nv} = 26.1$ (ksi) Bolt Nominal Shear Stress | $F_{nv} = 0.45F_u$ (Threads Excluded) or $0.563F_u$ (Threads Not Excluded)

 $F_{nt} = 43.5$ (ksi) Bolt Nominal Tensile Stress | $F_{nt} = 0.75F_u$ (F1554 Gr 36 or A307)

ANCHOR BOLT

Shear

Single Bolt Available Shear Capacity = $\Phi R_n = \Phi(F_{nv})A_b =$ **3.84 kip**

Single Bolt Actual Shear Force = $V_u/n_b =$ **0.06 kip**

Shear Check **OK** 2%

Tension (Modified for Shear)

Single Bolt Required Shear Stress = $f_{rv} = (V_u/n_b)/A_b =$ **0.3 ksi**

Modified Bolt Nominal Tension Stress = $F'_{nt} = 1.3F_{nt} - (F_{nt}/\Phi F_{nv})f_{rv} =$ **43.5 ksi**

Single Bolt Available Tension Capacity = $\Phi R_n = \Phi(F'_{nt})A_b =$ **6.41 kip**

Single Bolt Actual Tension Force = $T_u = (M_u/d)/(0.5n_b) =$ **0.46 kip**

Tension Check **OK** 7%

USE: 0.5 Inch Diameter Anchor Bolts

BASE PLATE

Flexure

Plate Plastic Section Modulus = $Z = PL_{th}(PL_{th})^2/4 =$ **0.158 in³**

Plate Available Flexural Strength = $\Phi M_n = \Phi(PL_{F_y})Z =$ **5.1 in-kip**

Cumulative Bolt Tension Force = $T_{uc} =$ **0.5 kip**

Plate Actual Bending Moment = $M_{pu} =$ **1.3 in-kip**

Flexure Check **OK** 25%

Bearing

Plate Available Bearing Strength at Bolt = $\Phi R_n = \Phi(3.0)B_{da}(PL_{th})PL_{F_u} =$ **24.5 kip**

Plate Actual Bearing Stress = $(V_u/n_b)/(B_{da}(PL_{th})) =$ **0.3 kip**

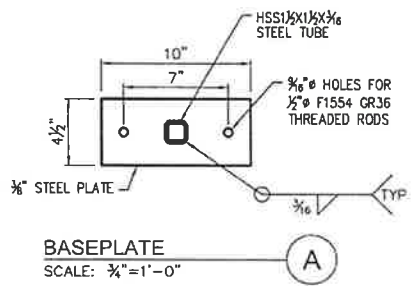
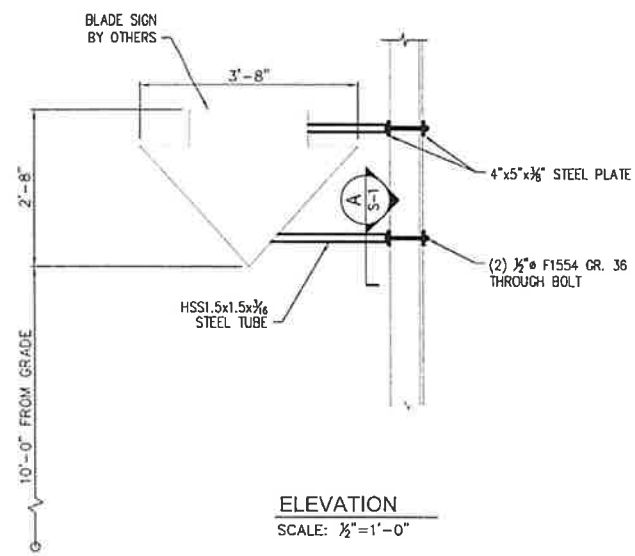
Bearing Check **OK** 1%

USE: 0.375 Inch Thick Base Plate

DocuSign Envelope ID: 6F5F0C88-237A-47E0-981F-0F817C459C0C

GENERAL NOTES:

- 1. DO NOT GUESS. DIRECT ALL QUESTIONS CONCERNING THIS DRAWING TO ELROD ENGINEERING, LLC.(615-890-9405)
- 2. DO NOT SCALE THIS DRAWING.
- 3. GRAPHICS ARE NOT TO BE REPRODUCED FROM THIS DRAWING.
- 4. STRUCTURAL STEEL PLATE & ANGLE SHALL CONFORM TO ASTM A36 (FY (YIELD)= 36 KSI).
- 5. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE "B" (FY = 46 KSI).
- 6. ALL METAL NOT SPECIFIED AS ALUMINUM SHALL BE STEEL.
- 7. STEEL WELDING TO CONFORM TO RECOMMENDATIONS AS PUBLISHED BY THE AMERICAN WELDING SOCIETY D1.1.
- 8. WORKMEN WHO WILL PERFORM WELDING OPERATIONS SHALL BE CERTIFIED FOR THE APPLICABLE WELDING PROCEDURE.
- 9. SIGN DIMENSIONS OBTAINED FROM FORTIFY FABRICATION PRODUCTION DRAWINGS NO. 1, 2, 3, & 4.



DESIGN CRITERIA
BUILDING CODE: IBC 2018/ASCE 7-16
ANALYSIS: LRFD-AISC 15TH
CHAPTER 16: SECTION 1609.3.1
ULTIMATE WIND SPEED $V_{ult} = 115$ MPH
NOMINAL WIND SPEED $V_{as} = 89$ MPH
RISK CATEGORY: II $V_{as} = V_{at} \times 0.6$
EXPOSURE: B

Drawn	AP	 ELROD ENGINEERING 887 Seven Oaks Blvd., Suite 1010 Smyrna, TN 37167 615-890-9405	NICK REDFORD 109 LORRAINE AVE NASHVILLE, TN	BLADE SIGN CONNECTION DETAIL POSTINO BLADE SIGN 2317 12TH AVE SOUTH NASHVILLE, TN	No.	Date	Revision	By	S-1
Checked	TBG				--	--	--	--	
EE Job#	10026178								
Created	07/11/2024								