



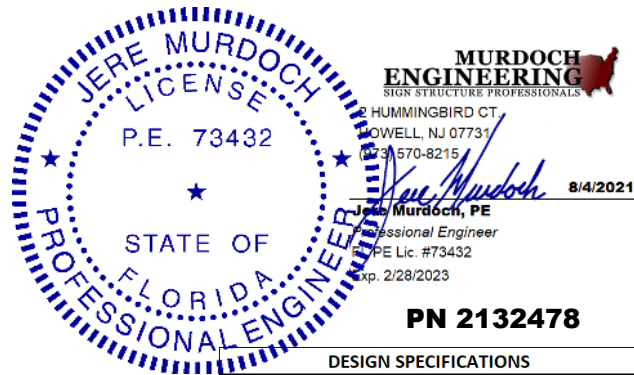
PROPOSED W/ BUILDING DIMENSIONS 3/16" = 1'-0"



EXISTING CONDITIONS 1/16" = 1'-0"



NIGHT VIEW 1/16" = 1'-0"



Digitally signed by  
Jere Murdoch, Pe  
Date: 2021.08.04  
14:33:47 -04'00'

DESIGN SPECIFICATIONS	
FL Building Code 2020 7th Edition	
ASCE 7-16	Minimum Design Loads for Buildings & Other Structures
ACI 318-14	Building Code Requirements for Structural Concrete
ANSI/AISC 360-16	Specification for Structural Steel Buildings
DESIGN LOADS	
Wind	V = 120 mph
Exposure	C
Risk Cat.	II

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5300 Shad Road, Jacksonville, FL 32257  
harbingersign.com 904.268.4681

TOM NEHL

383 SW Arrowhead Ter.  
Lake City, FL 32024

SALES ASSOC: Mark Armbrust  
PROJECT MGR: Ryan Richardson  
DESIGNER: Justin Ortega

FILE: Tom Nehl\_Lake City\_R1\_Permit  
PATH: F:\Customers\Tom Nehl Trucks\Lake City\Design\CDR

DATE	REV.	DESCRIPTION	INITIALS
09.09.20	00	Original	JO
02.24.21	R1	Update Pylon, Add Bldg Signs	JO
07.02.21	R1	Permit Details	JO

#### SQUARE FOOTAGE FORMULA

ZONING:

CI - COMMERCIAL INTENSIVE

CALCULATIONS:

NOT STIPULATED.  
SUBMIT FOR REVIEW.

ALLOWED TOTAL	T.B.D.
PROPOSED TOTAL	93.7 SqFt Total

CUSTOMER APPROVAL:

- ☐ Approved  
☐ Approved as Noted  
☐ Not Approved

Customer Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Customer Notes: \_\_\_\_\_



Complies with  
UL 48  
CSA C22.2 No.207

THE STRUCTURAL DESIGN CONFORMS TO THE FOLLOWING CODES AND SPECIFICATIONS: THE FLORIDA BUILDING CODE SEVENTH EDITION (2020). THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (MANUAL OF STEEL CONSTRUCTION, 9TH EDITION). THE AMERICAN WELDING SOCIETY (AWS D1.1-15). THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14). THE SPECIFICATION FOR ALUMINUM STRUCTURES BY THE ALUMINUM ASSOCIATION (CURRENT EDITION).





- P1

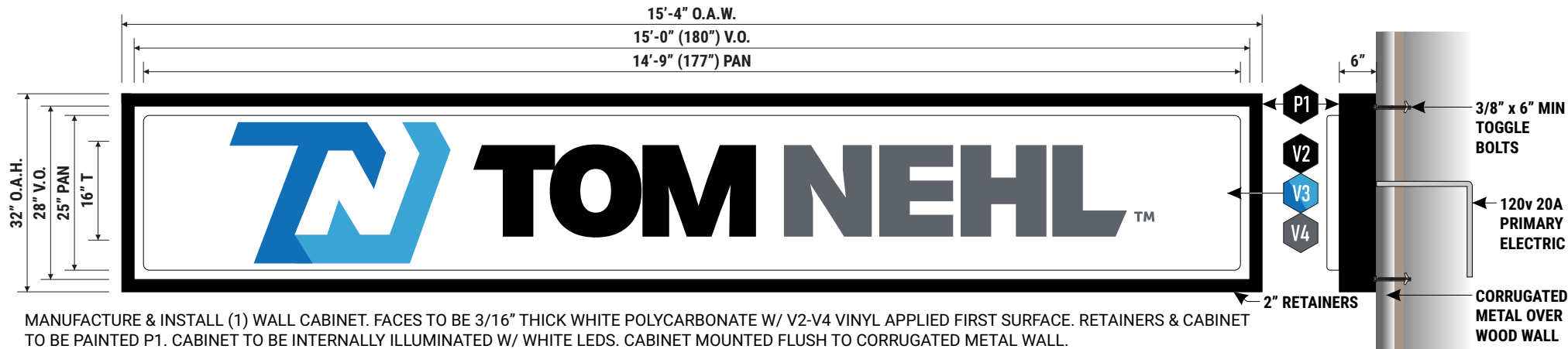
SATIN BLACK PAINT
- V1

3M TRANSLUCENT DIGITAL PRINT VINYL W/ LAMINATE  
PRINT TO MATCH PANTONE 485C
- V2

3M 7725-12 BLACK OPAQUE VINYL
- V3

3M IJ180-C10 DIGITALLY PRINTED  
VINYL W/ 8520 OVERLAMINATE
- V4

3M 3630-61 TRANS SLATE GRAY



MANUFACTURE & INSTALL (1) WALL CABINET. FACES TO BE 3/16" THICK WHITE POLYCARBONATE W/ V2-V4 VINYL APPLIED FIRST SURFACE. RETAINERS & CABINET TO BE PAINTED P1. CABINET TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS. CABINET MOUNTED FLUSH TO CORRUGATED METAL WALL.

2 Main Wall Cabinet  
1/2" = 1'-0"

QTY (1)  
CABINET SQ. FT.: 40.9

Side View  
1/2" = 1'-0"

FASTENER SCHEDULE (BOX SIGN)			WALL CONSTRUCTION			
HARDWARE	DIAM.	O.C. Spacing Max.	MASONRY (CMU-Block)	EFIS/DRYVIT OVER min. 3/4" PLYWOOD	EFIS/DRYVIT OVER GYPSUM/ DENSGLASS	METAL PANEL OVER METAL STUD
THRU-BOLT	3/8"	48in.	YES	YES	ONLY WITH BACKER (MIN. 3/4" PLYWOOD)	YES
POWERS DBL. EXPANSION ANCHOR	3/8"	48in.	YES <sup>2</sup>	NO	NO	NO
LAG BOLT	3/8"	48in.	NO	1" SOLID WOOD PENETRATION REQ'D	NO	NO
TOGGLE BOLT	3/8"	24in.	IF THROUGH BLOCK FACE	YES	ONLY WITH MIN. 3/4" PLYWOOD BACKER	YES
Tek-Screw	1/4"	N/A	NO	NO	NO	YES into 1/8" Alum or 1/16" Steel

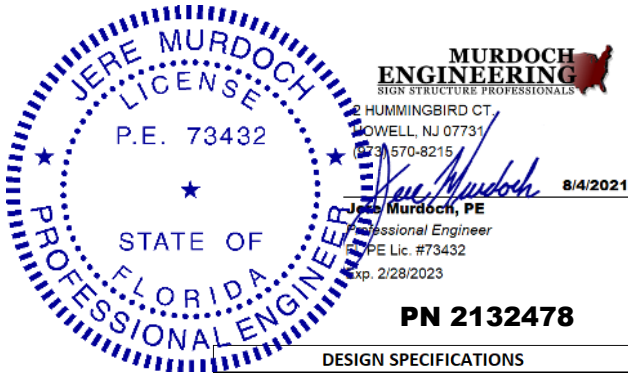
1.) Fasteners shall be evenly spaced Top and Bottom w/4" Side end clearance. Through Min. 1/8" Alum. box framing with washers.

2.) Expansion anchors require a minimum 1-3/4" solid masonry embedment installed per/tec-guide for wall construction type.

3.) Tek-Screw into Alum. Require SS Screw - Full Thread Embedment Required.

4.) Thru-Bolts (All-Thread Rods) into L2x2x3/16" Stl. Angle or 2x6 lumber spanning two(2) wall studs per/Bolt - Rod

**Engineers Connection Note:**  
**Provide fasteners through sign box framing with washers using the fastener schedule for existing wall construction type to determine the fastener type and Max. O.C. bolt spacing to install evenly spaced along the top and bottom with a 4" Max. side end clearance.**  
**- All fasteners must be installed per/manufacture's Tech Guide.**  
**- Contact Murdoch Engineering for revision if field conditions vary.**



DESIGN SPECIFICATIONS	
FL Building Code 2020 7th Edition	
ASCE 7-16	Minimum Design Loads for Buildings & Other Structures
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DESIGN LOADS	
Wind	V = 120 mph
Exposure	C
Risk Cat.	II

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**TOM NEHL** 383 SW Arrowhead Ter.  
Lake City, FL 32024

SALES ASSOC: Mark Armbrust  
PROJECT MGR: Ryan Richardson  
DESIGNER: Justin Ortega

FILE: Tom Nehl\_Lake City\_R1\_Permit  
PATH: F:\Customers\Tom Nehl Trucks\Lake City\Design\CDR

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07.02.21	R1	Permit Details	JO

SQUARE FOOTAGE FORMULA  
ZONING:

CALCULATIONS:

ALLOWED TOTAL	
PROPOSED TOTAL	

CUSTOMER APPROVAL:

- ☐ Approved  
☐ Approved as Noted  
☐ Not Approved

Customer Signature:

Date:

Customer Notes:

**LISTED MET US** Complies with **UL 48**  
**CSA C22.2 No.207**  
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- P1

SATIN BLACK PAINT
- V1

3M TRANSLUCENT DIGITAL PRINT VINYL W/ LAMINATE  
PRINT TO MATCH PANTONE 485C
- V2

3M 7725-12 BLACK OPAQUE VINYL
- V3

3M IJ180-C10 DIGITALLY PRINTED  
VINYL W/ 8520 OVERLAMINATE
- V4

3M 3630-61 TRANS SLATE GRAY

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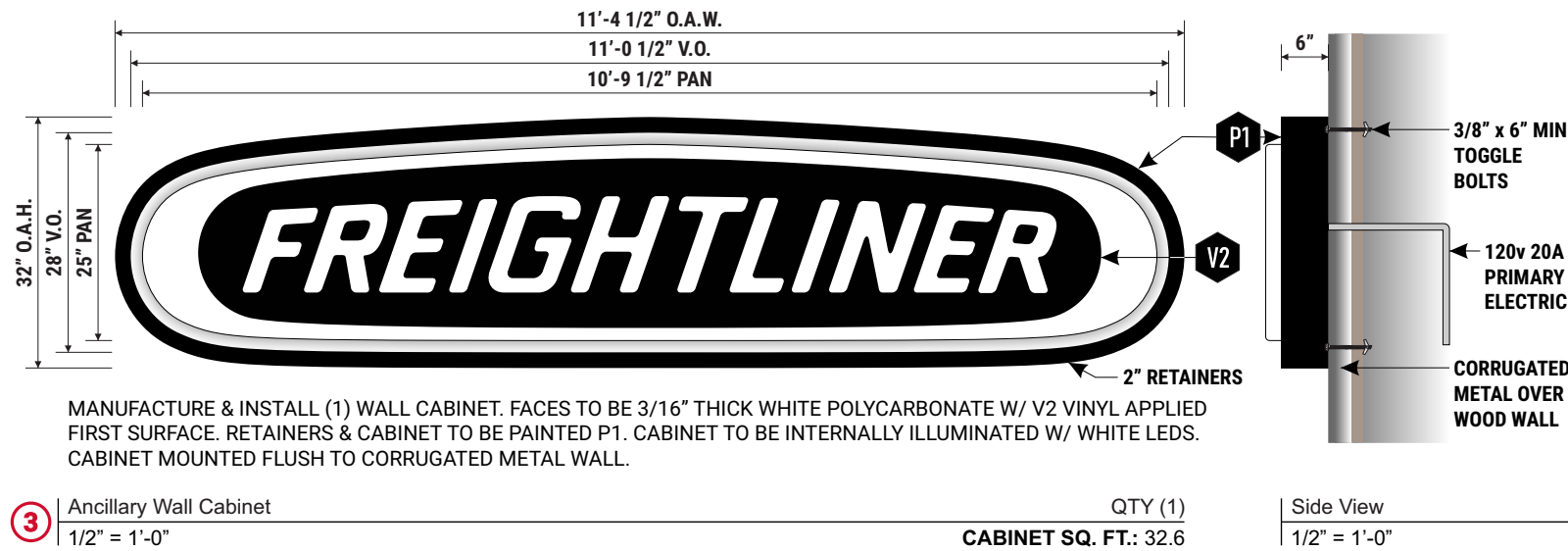
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FASTENER SCHEDULE (BOX SIGN)			WALL CONSTRUCTION			
HARDWARE	DIAM.	O.C. Spacing Max.	MASONRY (CMU-Block)	EFIS/DRYVIT OVER min. 3/4" PLYWOOD	EFIS/DRYVIT OVER GYPSUM/ DENGSLASS	METAL PANEL OVER METAL STUD
THRU-BOLT	3/8"	48in.	YES	YES	ONLY WITH BACKER (MIN. 3/4" PLYWOOD)	YES
POWERS DBL. EXPANSION ANCHOR	3/8"	48in.	YES <sup>2</sup>	NO	NO	NO
LAG BOLT	3/8"	46in.	NO	1" SOLID WOOD PENETRATION REQ'D	NO	NO
TOGGLE BOLT	3/8"	23in.	IF THROUGH BLOCK FACE	YES	ONLY WITH MIN. 3/4" PLYWOOD BACKER	YES
Tek-Screw	1/4"	N/A	NO	NO	NO	YES into 1/8" Alum or 1/16" Steel

1.) Fasteners shall be evenly spaced Top and Bottom w/4" Side end clearance. Through Min. 1/8" Alum. box framing with washers.

2.) Expansion anchors require a minimum 1-3/4" solid masonry embedment installed per/tec-guide for wall construction type.

3.) Tek-Screw into Alum. Require SS Screw - Full Thread Embedment Required.

4.) Thru-Bolts (All-Thread Rods) into L2x2x3/16" Stl. Angle or 2x6 lumber spanning two(2) wall studs per/Bolt - Rod

**Engineers Connection Note:**  
**Provide fasteners through sign box framing with washers using the fastener schedule for existing wall construction type to determine the fastener type and Max. O.C. bolt spacing to install evenly spaced along the top and bottom with a 4" Max. side end clearance.**  
**- All fasteners must be installed per/manufacture's Tech Guide.**  
**- Contact Murdoch Engineering for revision if field conditions vary.**

JERE MURDOCH  
LICENSE  
P.E. 73432  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

MURDOCH  
ENGINEERING

SIGN STRUCTURE PROFESSIONALS

8 HUMMINGBIRD CT.  
HOWELL, NJ 07731  
(973) 570-8215

8/4/2021

Jere Murdoch, PE  
Professional Engineer  
PE Lic. #73432  
Exp. 2/28/2023

PN 2132478

DESIGN SPECIFICATIONS

FL Building Code 2020 7th Edition

ASCE 7-16 Minimum Design Loads for Buildings & Other Structures

ACI 318-14 Building Code Requirements for Structural Concrete

ANSI/AISC 360-16 Specification for Structural Steel Buildings

DESIGN LOADS

Wind V = 120 mph

Exposure C

Risk Cat. II

SQUARE FOOTAGE FORMULA

ZONING:

CALCULATIONS:

ALLOWED TOTAL

PROPOSED TOTAL

CUSTOMER APPROVAL:

☐ Approved

☐ Approved as Noted

☐ Not Approved

Customer Signature:

Date:

Customer Notes:

LISTED

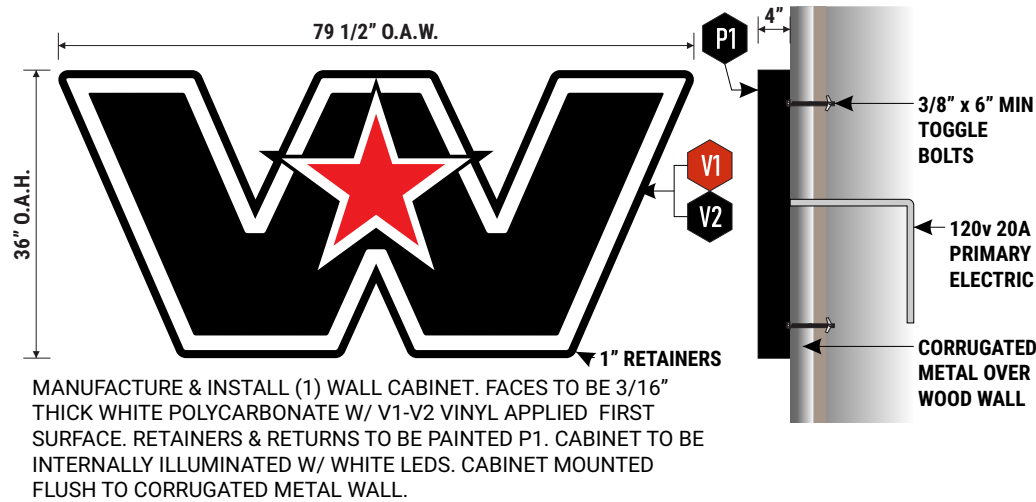
MET

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PAGE 3



4	Ancillary Wall Cabinet	QTY (1)	Side View
	1/2" = 1'-0"	CABINET SQ. FT.: 20.2	1/2" = 1'-0"

FASTENER SCHEDULE (BOX SIGN)			WALL CONSTRUCTION			
HARDWARE	DIAM.	O.C. Spacing Max.	MASONRY (CMU-Block)	EFIS/DRYVIT OVER min. 3/4" PLYWOOD	EFIS/DRYVIT OVER GYPSUM/ DENSGLASS	METAL PANEL OVER METAL STUD
THRU-BOLT	3/8"	Per/Note	YES	YES	ONLY WITH BACKER (MIN. 3/4" PLYWOOD)	YES
POWERS DBL. EXPANSION ANCHOR	3/8"	Per/Note	YES <sup>2</sup>	NO	NO	NO
LAG BOLT	3/8"	Per/Note	NO	1" SOLID WOOD PENETRATION REQ'D	NO	NO
TOGGLE BOLT	3/8"	Per/Note	IF THROUGH BLOCK FACE	YES	ONLY WITH MIN. 3/4" PLYWOOD BACKER	YES
Tek-Screw	1/4"	N/A	NO	NO	NO	YES into 1/8" Alum or 1/16" Steel
1.) Fasteners shall be evenly spaced Top and Bottom w/4" Side end clearance. Through Min. 1/8" Alum. box framing with washers. 2.) Expansion anchors require a minimum 1-3/4" solid masonry embedment installed per/tec-guide for wall construction type. 3.) Tek-Screw into Alum. Require SS Screw - Full Thread Embedment Required. 4.) Thru-Bolts (All-Thread Rods) into L2x2x3/16" Stl. Angle or 2x6 lumber spanning two(2) wall studs per/Bolt - Rod						

**Engineers Connection Note:**  
**Provide fasteners through sign box framing with washers using the fastener schedule for existing wall construction type to determine the fastener type to install as follows:**  
- **Provide Five(5), Three(3) top and Two(2) bottom, Toggle Bolt, Provide Ten(10), Six(6) top and Four(4) bottom.**  
- **All fasteners must be installed per/manufacture's Tech Guide.**  
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- V3 3M 1J180-C10 DIGITALLY PRINTED VINYL W/ 8520 OVERLAMINATE
- V4 3M 3630-61 TRANS SLATE GRAY

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SQUARE FOOTAGE FORMULA  
ZONING:

CALCULATIONS:

ALLOWED TOTAL	
PROPOSED TOTAL	

CUSTOMER APPROVAL:

☐ Approved  
☐ Approved as Noted  
☐ Not Approved

Customer Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Customer Notes: \_\_\_\_\_

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DESIGN LOADS	
Wind	V = 120 mph
Exposure	C
Risk Cat.	II

LISTED

**MET**

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Complies with  
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