



MIAMI-DADE COUNTY, FLORIDA  
**PRODUCT CONTROL SECTION**  
 11805 SW 26 Street, Room 208  
 Miami, FL 33175  
 T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
 BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

**Miami Tech, Inc.**  
**3611 NW 74 Street**  
**Miami, FL 33147**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Aluminum Stand for Mechanical Units**

**APPROVAL DOCUMENT:** Drawing No. **23-61608**, titled "Aluminum Stand for Mechanical Units (AS14)", sheets 1 through 5 of 5, dated 06/20/2023, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 03/07/2024, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number & expiration date by Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: None.**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **revises and renews NOA# 20-1013.03** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



*S.Z.*  
 09/05/2024

**NOA No. 24-0319.03**  
**Expiration Date: September 05, 2029**  
**Approval Date: September 05, 2024**  
 Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **23-61608**, titled “Aluminum Stand for Mechanical Units (AS14)”, sheets 1 through 5 of 5, dated 06/20/2023, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 03/07/2024.

**B. TESTS**

1. Load Testing of Aluminum A/C Stand Post to Welded Baseplate, prepared by QC Metallurgical, Inc., QCM Job No. 15KM-958, dated 11/13/15, signed by Jerry Iacofano (*Voluntary Testing*)  
(*Submitted under NOA No. 15-0902.05*)

**C. CALCULATIONS**

1. Engineering design calculations, prepared by Engineering Express, dated 03/14/2024, signed and sealed by Frank L. Bernardo, P.E.
2. Engineering design calculations, prepared by Engineering Express, dated 05/25/16 and last revised on 06/23/16, signed and sealed by Frank L. Bernardo, P.E.  
(*Submitted under NOA No. 16-0601.01*)

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letters dated 02/20/2024 indicating compliance to FBC 2023 (8<sup>th</sup> Edition) and no financial interest prepared by Engineering Express signed & sealed by Frank L. Bernardo, P.E.

**G. OTHER**

1. Notice of Acceptance No. **20-1013.03**, issued to Miami Tech, Inc., for their **Aluminum A/C Stand**, approved on 12/31/2020 and expiring on 01/15/2024.



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**Sifang Zhao, P.E.**  
**Product Control Examiner**  
**NOA No. 24-0319.03**  
**Expiration Date: September 05, 2029**  
**Approval Date: September 05, 2024**

# ALUMINUM STANDS FOR MECHANICAL UNITS (AS14)

RICHARD NEET, P.E.  
PE# 86488 CA# 9885

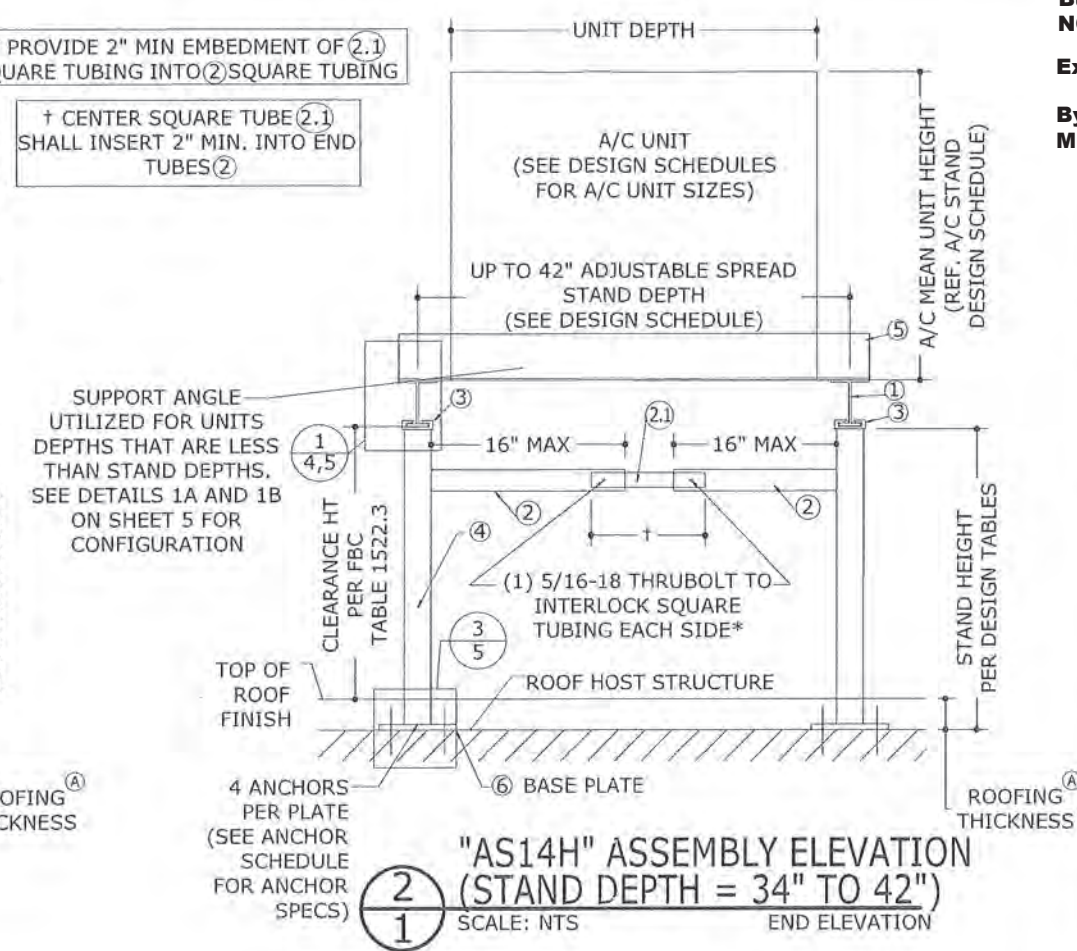
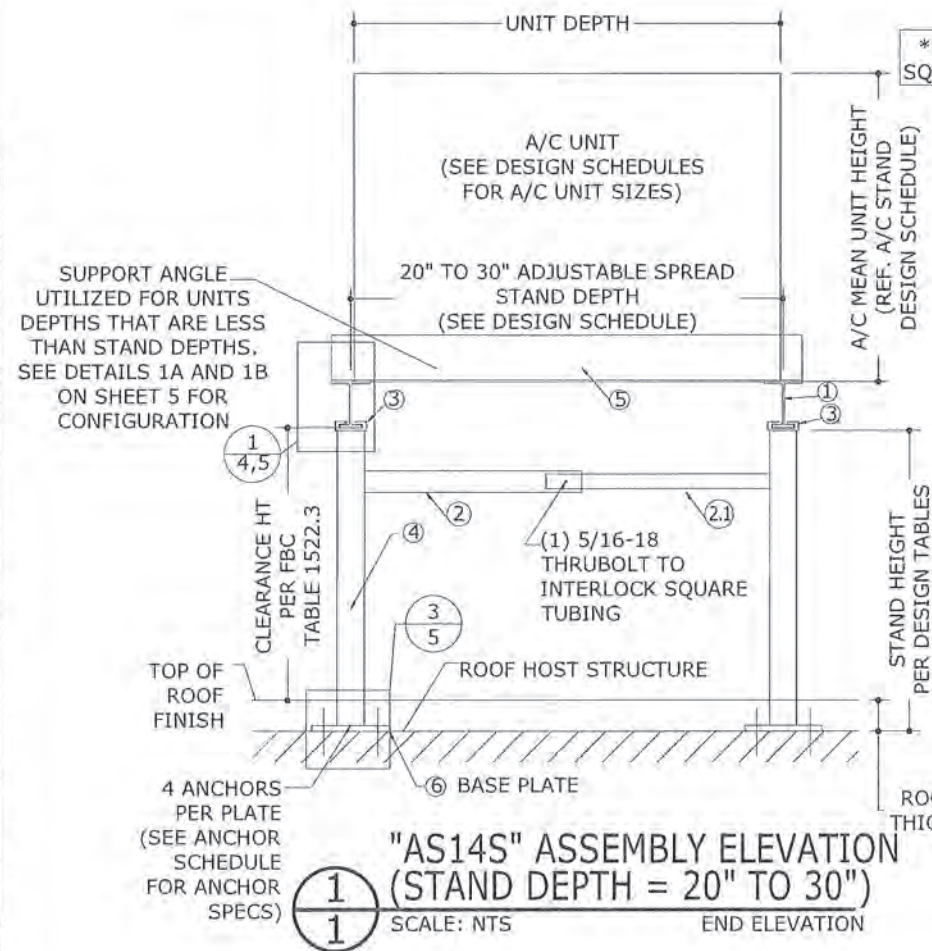
MARCH 7, 2024



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0319.03

Expiration Date 09/05/2029

By   
Miami-Dade Product Control



## MAXIMUM ALLOWABLE DESIGN PRESSURES:

AS NOTED IN DESIGN SCHEDULES

## DESIGN NOTES:

DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE USING ASD METHODOLOGY. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-22 AND THE FLORIDA BUILDING CODE SEVENTH EDITION (2023) SHALL BE LESS THAN OR EQUAL TO THE LATERAL AND UPLIFT DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

## GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND THE ALUMINUM DESIGN MANUAL (ADM 2020).
- MAXIMUM DIMENSIONS AND WEIGHT OF A/C UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN, MINIMUM 75LB OR MAXIMUM AS LISTED HEREIN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
- REACTION FORCES LISTED FOR USE WITH HOST STRUCTURE VERIFICATION ARE CALCULATED USING ASD METHODOLOGY. DESIGN PROFESSIONAL OF RECORD TO VERIFY APPLICABILITY AND/OR ADDITIONAL FACTORS FOR USE WITH HOST STRUCTURE VERIFICATION.
- ALL FASTENERS TO BE #10 OR GREATER SAE GRADE 5, UNLESS NOTED OTHERWISE, CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH CHAPTER J, SPECIFICATIONS FOR ALUM. STRUCTURES -SECTION 1, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES. PROVIDE (3) PITCHES MIN PAST THREAD PLANE.
- ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6061-T6 OR 6005-T5.
- ALL 22GA DEFORMED STEEL STRAPS USED FOR UNIT TIE-DOWNS SHALL BE Fy = 36KSI MIN. STEEL FABRICATION OF STEEL STRAPS SHALL BE BY STRAP MANUFACTURER ONLY.
- ALL EXISTING CONCRETE SUBSTRATE SHALL HAVE MINIMUM Fc COMPRESSIVE STRENGTH OF 3000 PSI AS VERIFIED BY OTHERS, I.N.O.
- ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH FBC SECTION 2003.8.1 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL, TABLE J.2.1. SUGGESTED WELD FILLER: 5356 ELECTRODES. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003.2 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- AC STANDS SHALL BE LABELED PER MIAMI-DADE REQUIREMENTS FOR NON-MANDATORY PRODUCT APPROVALS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.

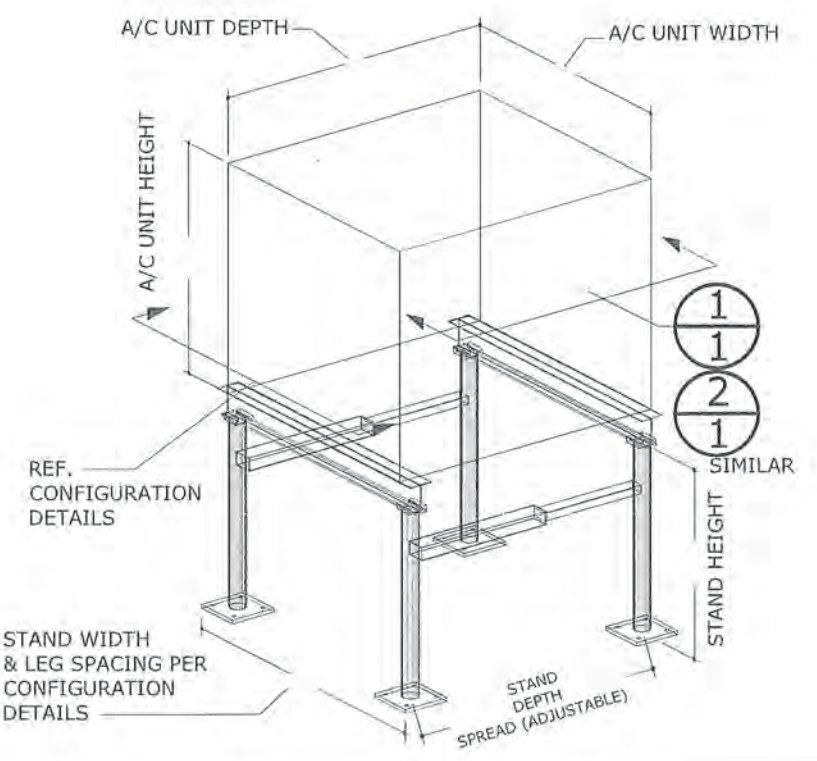
**"CUSTOM" ASSEMBLY NOTE:** SEE SHEET 3 FOR CUSTOM ASSEMBLY ELEVATION WITH CROSS BRACING AND LIMITATIONS

<sup>A</sup>ROOFING FINISH THICKNESS SHALL BE ACCOUNTED FOR BY CONTRACTOR WHEN DETERMINING REQUIRED STAND HEIGHT IN ACCORDANCE WITH THE FBC OR THE LOCAL JURISDICTION.

REQUIRED STAND DEPTH SHALL BE DETERMINED BY CONTRACTOR

75# MIN./450 # MAX UNIT WEIGHT AS VERIFIED BY OTHERS, TYP. FOR LARGER/HEAVIER UNITS, SEE "CUSTOM" ASSEMBLY ON SHEET 3

**NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:**  
NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT [ENGINEERINGEXPRESS.COM/QUOTE](http://ENGINEERINGEXPRESS.COM/QUOTE) FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.



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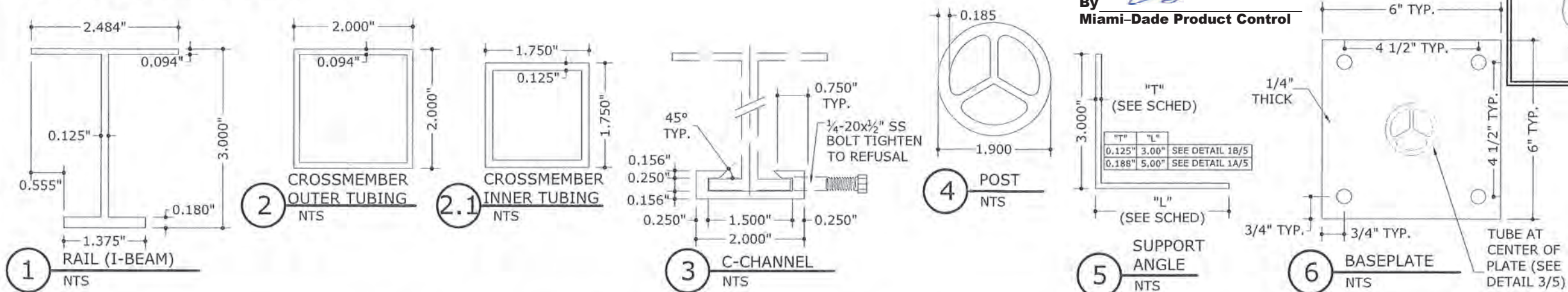
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3611 NW 74th St  
Miami, FL 33147  
(305) 693-7054  
Aluminum Stand for Mechanical Units (AS14)  
Florida Statewide Approval  
Florida Building Code

REMARKS	INIT	ISSUE	DATE
			8/20/2023

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**23-61608**  
SCALE: NTS UNLESS NOTED  
**1** OF **5**

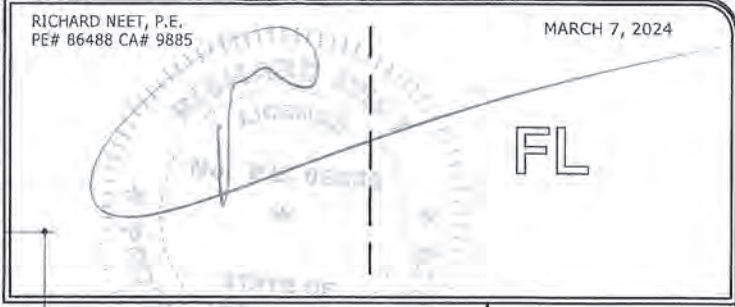
### STAND COMPONENTS



**PRODUCT REVISED**  
as complying with the Florida  
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NOA-No. 24-0319.03

Expiration Date 09/05/2029

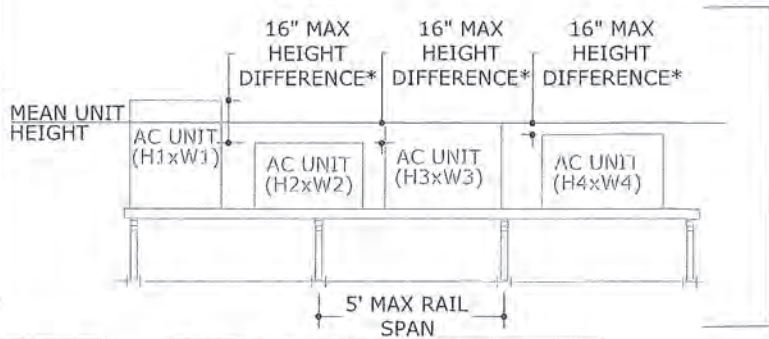
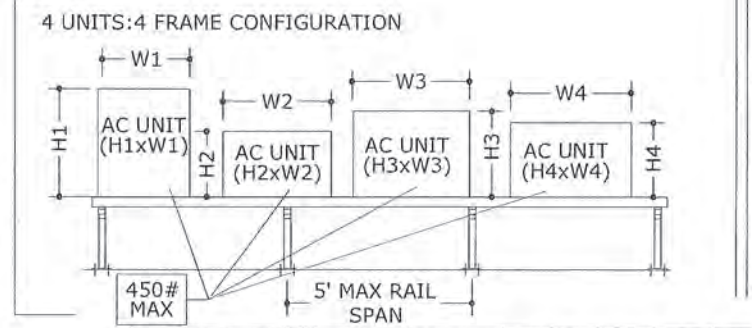
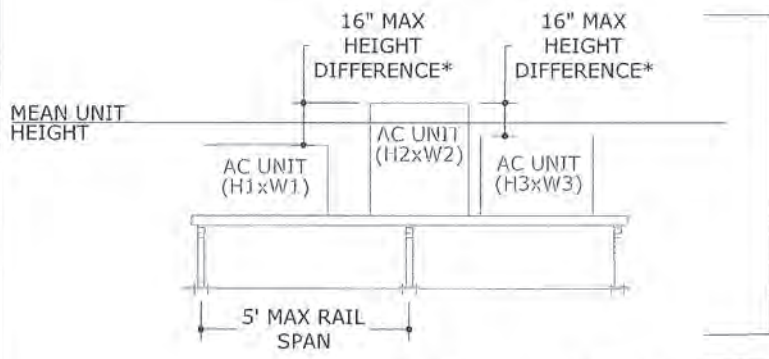
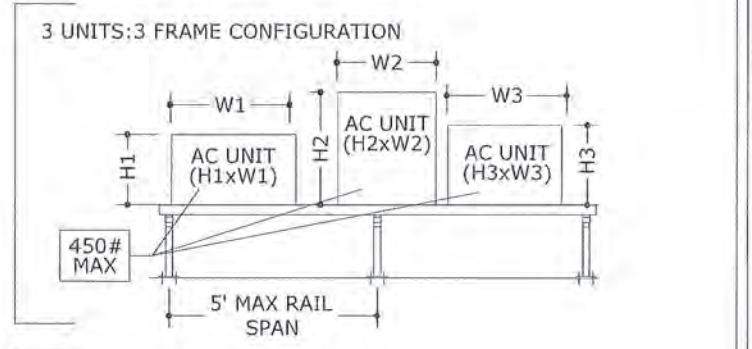
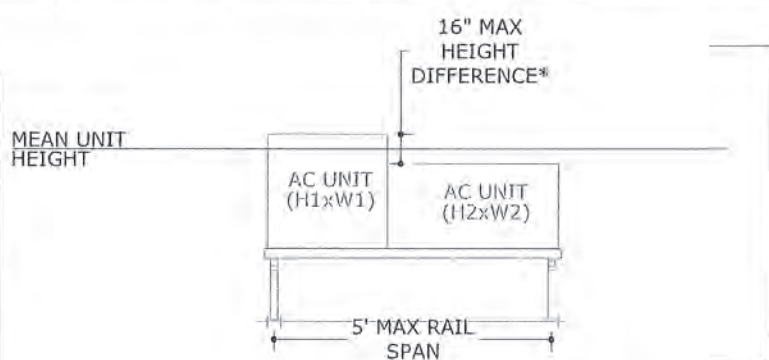
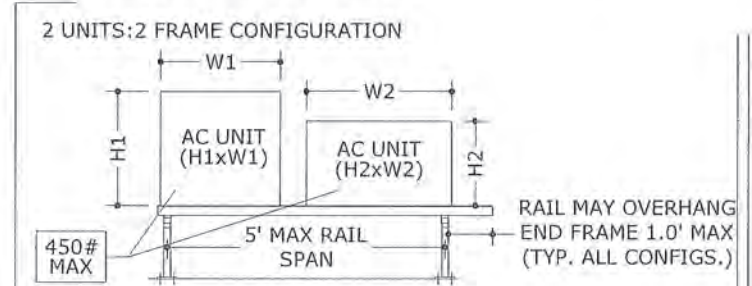
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### MEAN UNIT HEIGHT & MAX FACE AREA CALCULATION DIRECTIVE: THIS DIRECTIVE SHALL BE USED TO CALCULATE THE MEAN UNIT HEIGHT & MAXIMUM FACE AREA OF ANY MULTIPLE UNIT CONFIGURATION.

#### EXAMPLE CONFIGURATIONS:



#### FORMULAS USED FOR DETERMINING MEAN UNIT HEIGHT & MAXIMUM UNIT FACE AREA:

1. CALCULATE THE MEAN UNIT HEIGHT BY THE FOLLOWING EQUATION:

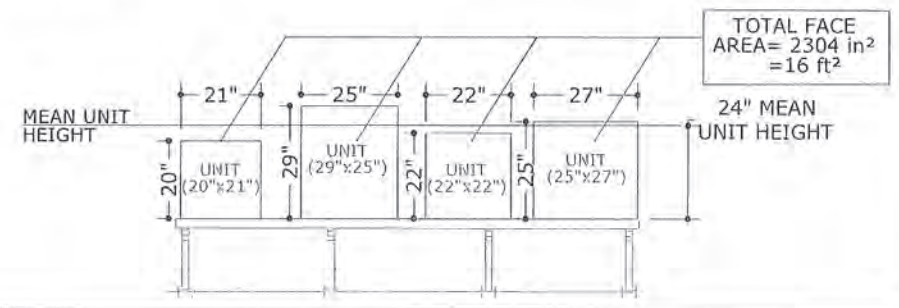
- TWO UNITS:  $\frac{H1+H2}{2}$
- THREE UNITS:  $\frac{H1+H2+H3}{3}$
- FOUR UNITS:  $\frac{H1+H2+H3+H4}{4}$
- "n" UNITS:  $\frac{H1+H2+H3+...+Hn}{n}$

2. CALCULATE THE MAXIMUM UNIT FACE AREA BY THE FOLLOWING EQUATION:

- TWO UNITS:  $(H1 \times W1) + (H2 \times W2)$
- THREE UNITS:  $(H1 \times W1) + (H2 \times W2) + (H3 \times W3)$
- FOUR UNITS:  $(H1 \times W1) + (H2 \times W2) + (H3 \times W3) + (H4 \times W4)$
- "n" UNITS:  $(H1 \times W1) + ... + (Hn \times Wn)$

#### EXAMPLE SCENARIO:

- CONSIDER A FOUR UNIT CONFIGURATION WITH THE DIMENSIONS AS SHOWN BELOW.
- CALCULATE THE MEAN UNIT HEIGHT.
  - FOUR UNITS:  $\frac{H1+H2+H3+H4}{4} = \frac{20''+29''+22''+25''}{4} = 24''$  MEAN UNIT HEIGHT
- CALCULATE THE MAXIMUM FACE AREA.
  - FOUR UNITS:  $(H1 \times W1) + (H2 \times W2) + (H3 \times W3) + (H4 \times W4) = (20'' \times 21'') + (29'' \times 25'') + (22'' \times 22'') + (25'' \times 27'')$   
 $= 2304 \text{ in}^2 = 16 \text{ ft}^2$



NOTE: THE NUMBER OF UNITS PER STAND CONFIGURATION MAY BE UNLIMITED PROVIDED THAT MULTIPLE UNITS CONFORM TO THE MEAN UNIT HEIGHT & MAXIMUM UNIT FACE AREA RESTRICTIONS UTILIZED IN THE DESIGN SCHEDULES.

\*MAXIMUM ALLOWABLE HEIGHT DIFFERENCE BETWEEN ANY UNITS IN A MULTIPLE UNIT CONFIGURATION IS RESTRICTED TO 16" MAX.

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REMARKS	DATE
INIT ISSUE	8/20/2023

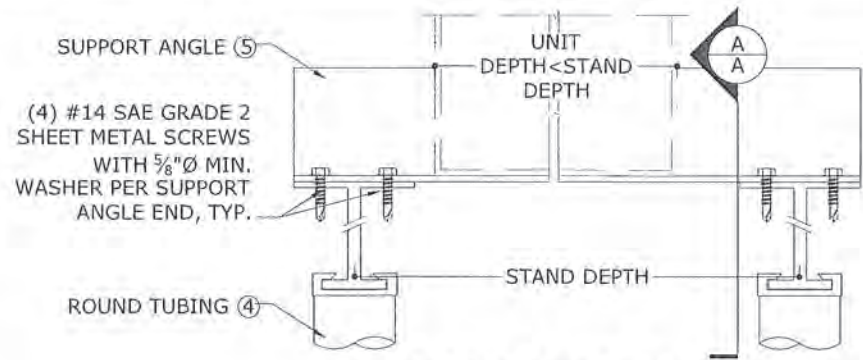
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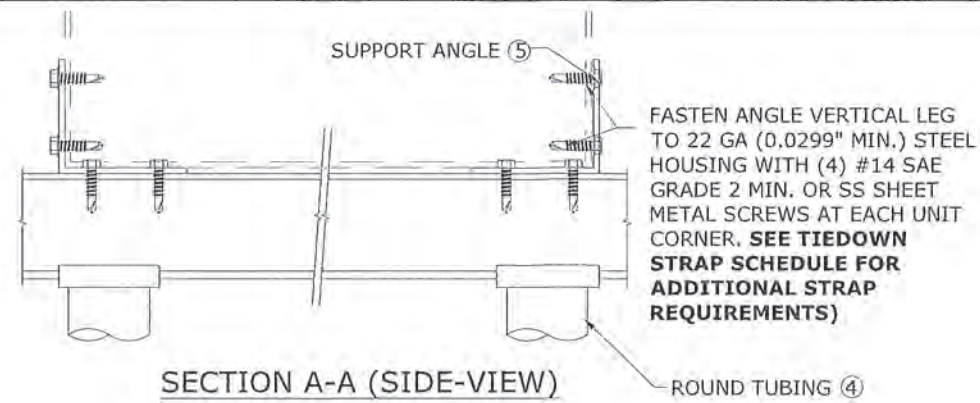




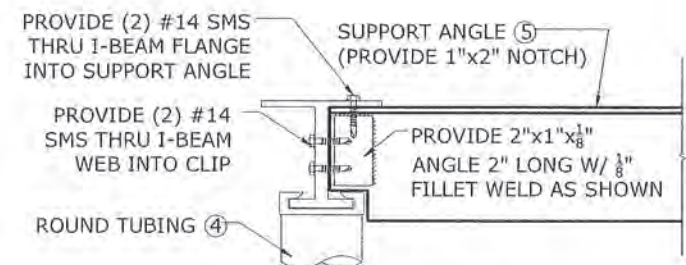
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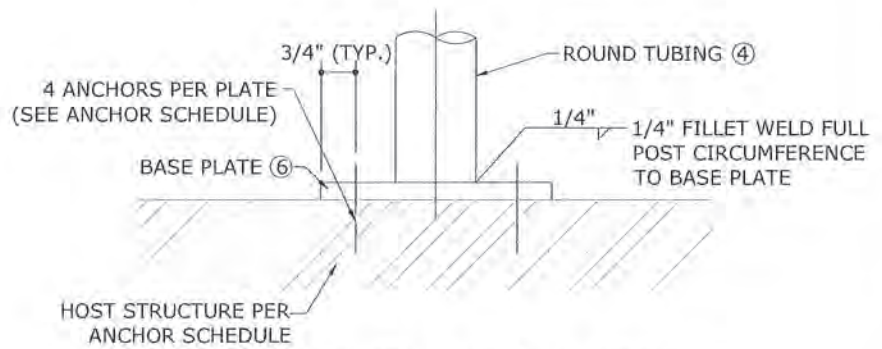
**1A**  
**SUPPORT ANGLE ATTACHMENT DETAIL**  
 5 NTS



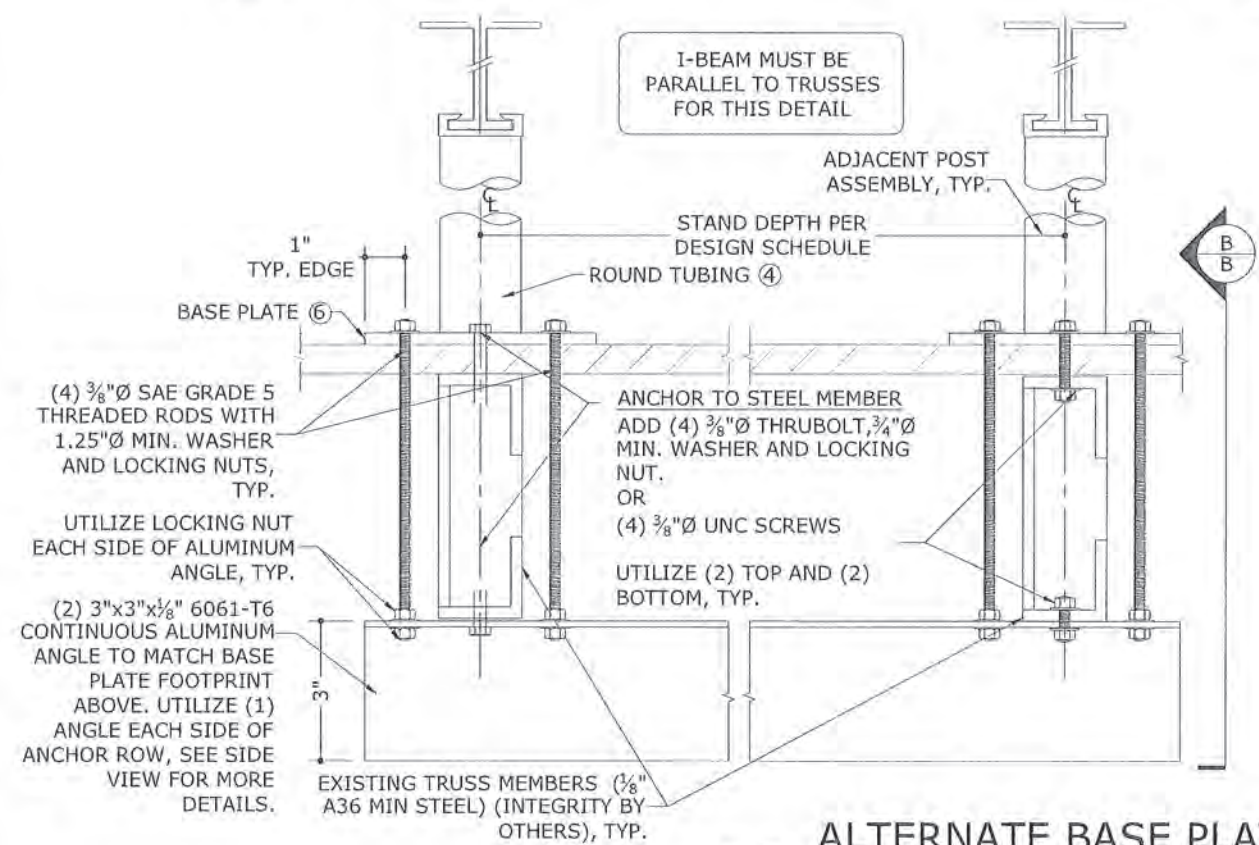
**SECTION A-A (SIDE-VIEW)**



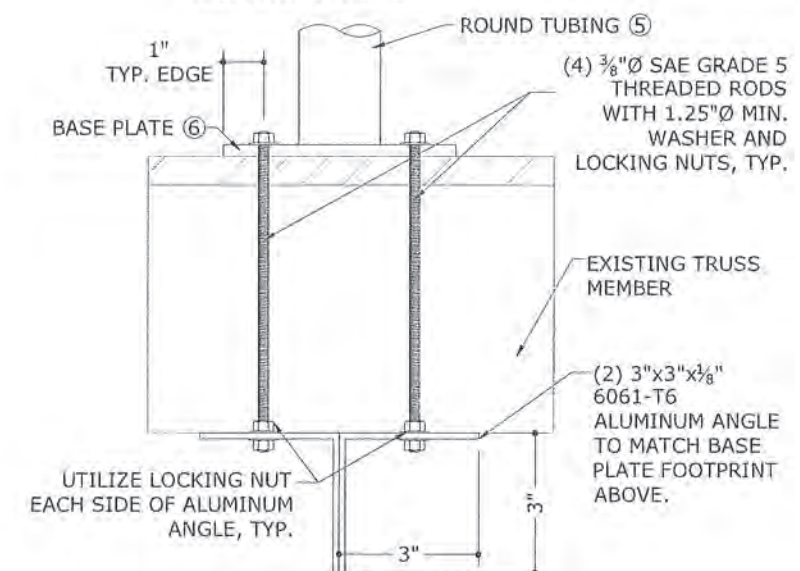
**1B**  
**SUPPORT ANGLE ATTACHMENT DETAIL**  
 5 NTS



**3**  
**STANDARD BASE PLATE ATTACHMENT DETAIL**  
 5 NTS



**4**  
**ALTERNATE BASE PLATE ATTACHMENT AT STEEL TRUSS MEMBERS**  
 5 NTS



**SECTION B-B (SIDE-VIEW)**

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 24-0319.03  
 Expiration Date 09/05/2029  
 By Miami-Dade Product Control

RICHARD NEET, P.E.  
 PE# 86488 CA# 9885  
 MARCH 7, 2024

**ANCHOR SCHEDULE**

ANCHOR TYPE	HOST STRUCTURE	ANCHOR DESCRIPTION
1	STEEL	3/8" SAE GRADE 5 SHEET METAL SCREWS WITH 1" MIN. WASHER, TO STRUCTURAL A36 STEEL MEMBERS (3/16" MIN HOST THICKNESS)
2A	CONCRETE (3.0 KSI MIN)	3/8" DEWALT CARBON STEEL SCREW-BOLT CONCRETE ANCHOR WITH 1" MIN. WASHER, 2-1/2" EMBEDMENT & 6" MIN EDGE DISTANCE, SEE BASE PLATE COMPONENT #6 (ON SHEET 2) FOR TYPICAL ANCHOR SPACING.
2B	CONCRETE (5.0 KSI MIN)	1/2" DEWALT MINI-DROP-IN ANCHOR WITH 1.0" EMBEDMENT & 6" MIN EDGE DISTANCE, SEE BASE PLATE COMPONENT #6 (ON SHEET 2) FOR TYPICAL ANCHOR SPACING. NOTE: MAX ALLOWABLE PRESSURES LISTED IN THE STAND DESIGN SCHEDULE SHALL BE MULTIPLIED BY 0.8 WHEN USING THIS ANCHOR OPTION
3	WOOD*	*SEE DETAIL 4/4 OR SITE SPECIFIC ENGINEERING IS REQUIRED
4	STEEL	3/8" SAE GRADE 5 THRU BOLT WITH 1" MIN. WASHER & NUT, TO STRUCTURAL A36 STEEL MEMBERS (3/16" MIN HOST THICKNESS)

**ANCHOR NOTES:**

- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE FOR EACH ANCHOR.
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. ALL CONCRETE SUBSTRATE SHALL BE UN-CRACKED CONCRETE AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, U.N.O. CONCRETE SUBSTRATE THICKNESS SHALL BE GREATER THAN OR EQUAL TO 1.5x ANCHOR EMBEDMENT. INSTALL CONCRETE ANCHORS TO UN-CRACKED CONCRETE ONLY.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES ROOFING FINISHES.
- WHERE EXISTING STRUCTURE IS WOOD TRUSSES, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD TRUSS MEMBERS, NOT INTO PLYWOOD.

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REMARKS	DATE	DRWN	CHKD	DATE
INIT ISSUE		RN	RN	8/20/2023

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