DESIGN CRITERIA: CONTRACTOR: MARTIN EXTERIORS

Applicable Codes, Regulations, and Standards

1. The 6th Edition (2017) Florida Building Code, specifically Chapter 16 Structural Design,

Chapter 20 Aluminum, and Chapter 23 Wood.

2. AA ASM 35 and AA ADM1 Specifications for Aluminum Structures, Part 1-A of the Aluminum Design Manual prepared by The Aluminum Association and the AAF Guide to Aluminum Construction in High Wind Areas.

Section 105.1
2. Dead Load: 2 PSF
3. Wind Load: <u>Loading Criteria</u> 1. Live Load: <u>10 PSF per 6th Edition (2017) Florida Building Code, Appendix I</u>

Building Occupancy Category, Section 1604.5 and Table 1604.5: Risk Category I. Ultimate Design Wind Speed: Vurr = 110 MPH. Nominal Design Wind Speed: Vast = 85 MPH
Exposure Category, Section 1609.4.3: Exposure C

Screen Enclosure Section 2002.4

4. Building Category for Aluminum Structures, Section 2002.6: Category TYPE 1 - Screen Enclosure / Screen Room: Non-Habitable, Unconditioned

Roof Type: MONOSLOPE / MANSARD
 Roof Material: 3" x 12" 0.030" American Metals Supply Riser Panel, Florida Product Approval Number FL 16952-R2

Foundation Design New Type II 4" Monolithic Concrete Slab - 8" x 8" w/(1) #5 Cont. 31" overlap at joints on 3" chairs and poured w/ 2,500 PSI concrete. The foundations are based on a minimum soil bearing pressure of 1,500 psf.

The following specifications are applicable to this project:

1. Where concrete specifications are required, whether in the screen enclosure scope or not, by one or more regulatory agency, the following specifications are applicable

a. Concrete shall conform to ASTM C94 for the following components: Portland Cement Type 1,- ASTM C 150

iv.Water reducing agent - ASTM C 494 Aggregates - Large Aggregate 3/4" max - ASTM C 33 Air entraining +/- 1% - ASTM C 260

 i. Reinforcing Bars - ASTM A615, grade 60
 ii. Welded wire fabric - ASTM A185 Metal accessories shall conform to: Other admixtures not permitted

Prepare and place concrete per American Concrete Institute Manual of Standard Practice, Parts 1, 2, and 3 including hot weather recommendations. Concrete slump at discharge chute not less than 3" or more than 5". Water added after batching is not permitted.

Prior to placing concrete, treat the entire subsurface area for termites in Moist cure or polyethylene curing permitted.

g. Concrete shall be placed over a polyethylene vapor barrier.
h. All aluminum commonante and aluminum commonante aluminum All aluminum components embedded within concrete shall be coated with a

Aluminum extrusions shall be 6005 T5 Alloy bituminous paint or epoxy.

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 Fasteners are required to be corrosion resistant, minimum SAE Grade 2 or better zinc plated to ASTM B633, or coated stainless steel series "300", or uncoated stainless steel

Approved concrete screw anchors to be Simpson Titen-HD or equivalent.
 All Self Mating Beam Sections are to be stitched with either #14 screws 6" from ends

6. The minimum nominal thickness of protector panels (kickplates) shall be an industry standard of 0.024 inches. and 24" center to center or #12 screws 6" from ends and 12" center to center.

 Screened enclosures containing swimming pools shall comply with the applicable requirements of FBC R4501.17 Residential Swimming Barrier requirements. 8. Screen material shall be 18/14 screen unless approved by Florida Aluminum

Door location shall be determined by contractor in the field.

concrete with an epoxy, thinset, or 3,000 PSI grout to ensure full positive contact with When installing pavers over concrete slab or footing which are supporting aluminum members, such as continuous screen tracks or upright, the pavers must be bonded to the

3'-0"

1X2(TYP)

1X2(TYP)

DATE DRAWN 08/18/20

REVISION

DRAWN BY

SHERMAN

LAKE CITY

FL 32025

AT (3)

A-2

2X2

2X2

A-5

X2(TYP)

1X2(TYP)

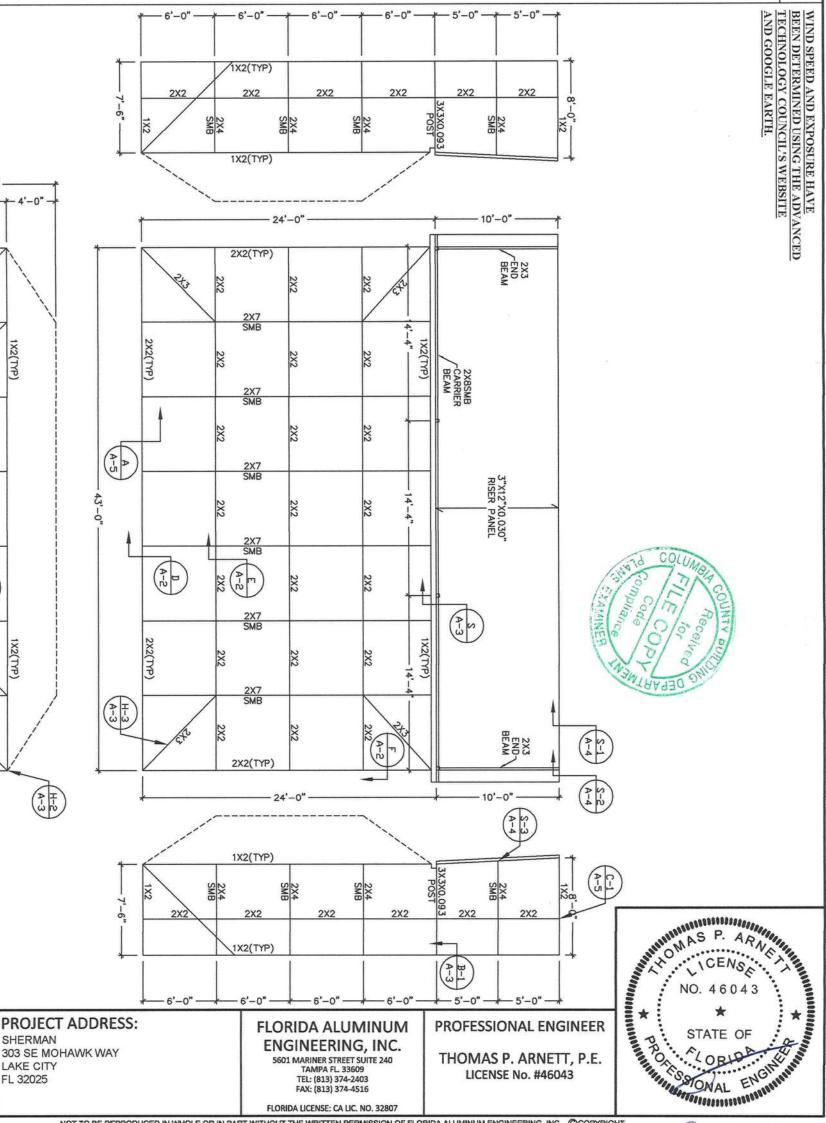
6'-12"

6'-12"

6'-12"

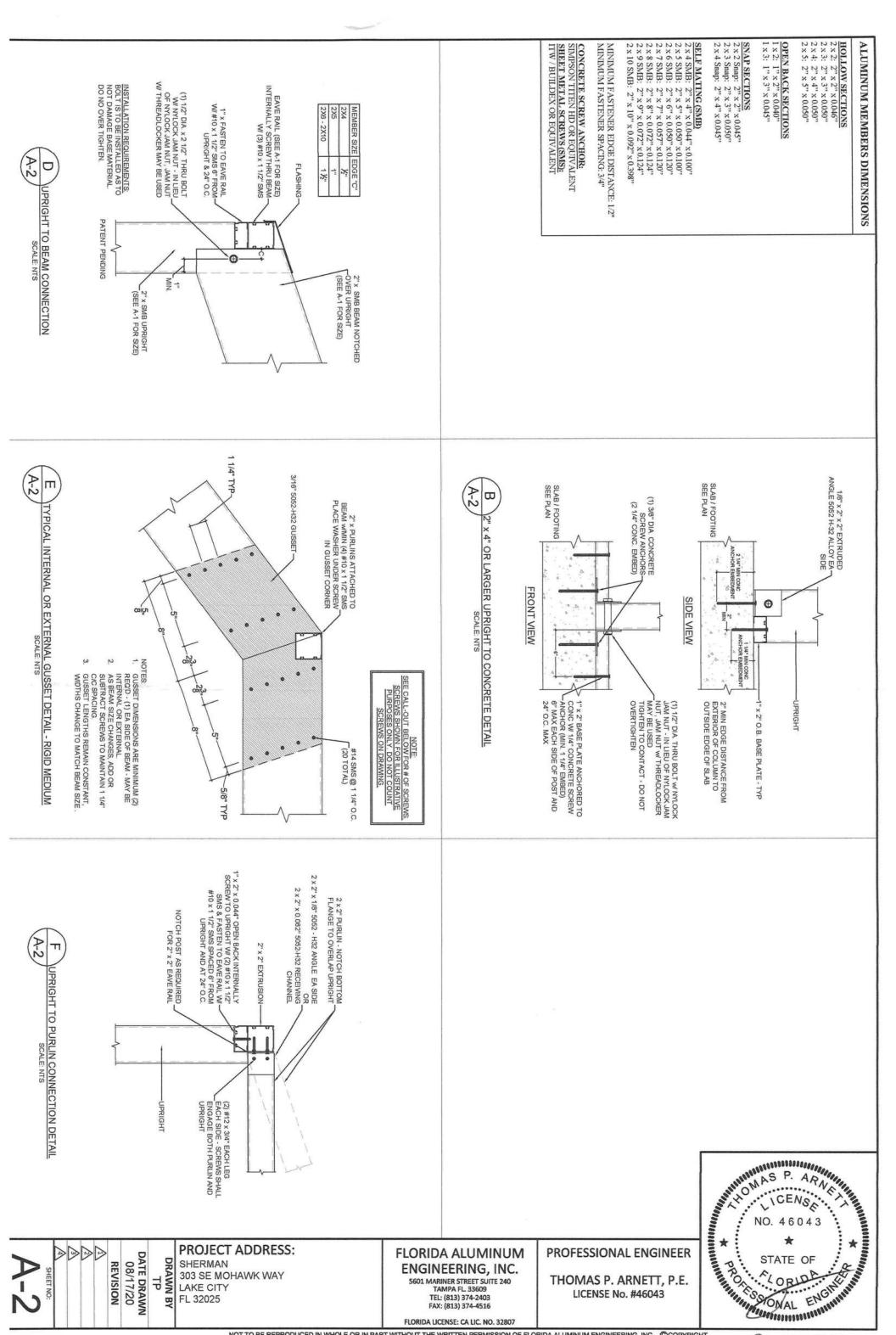
All flashing and waterproofing shall be provided by the contractor.

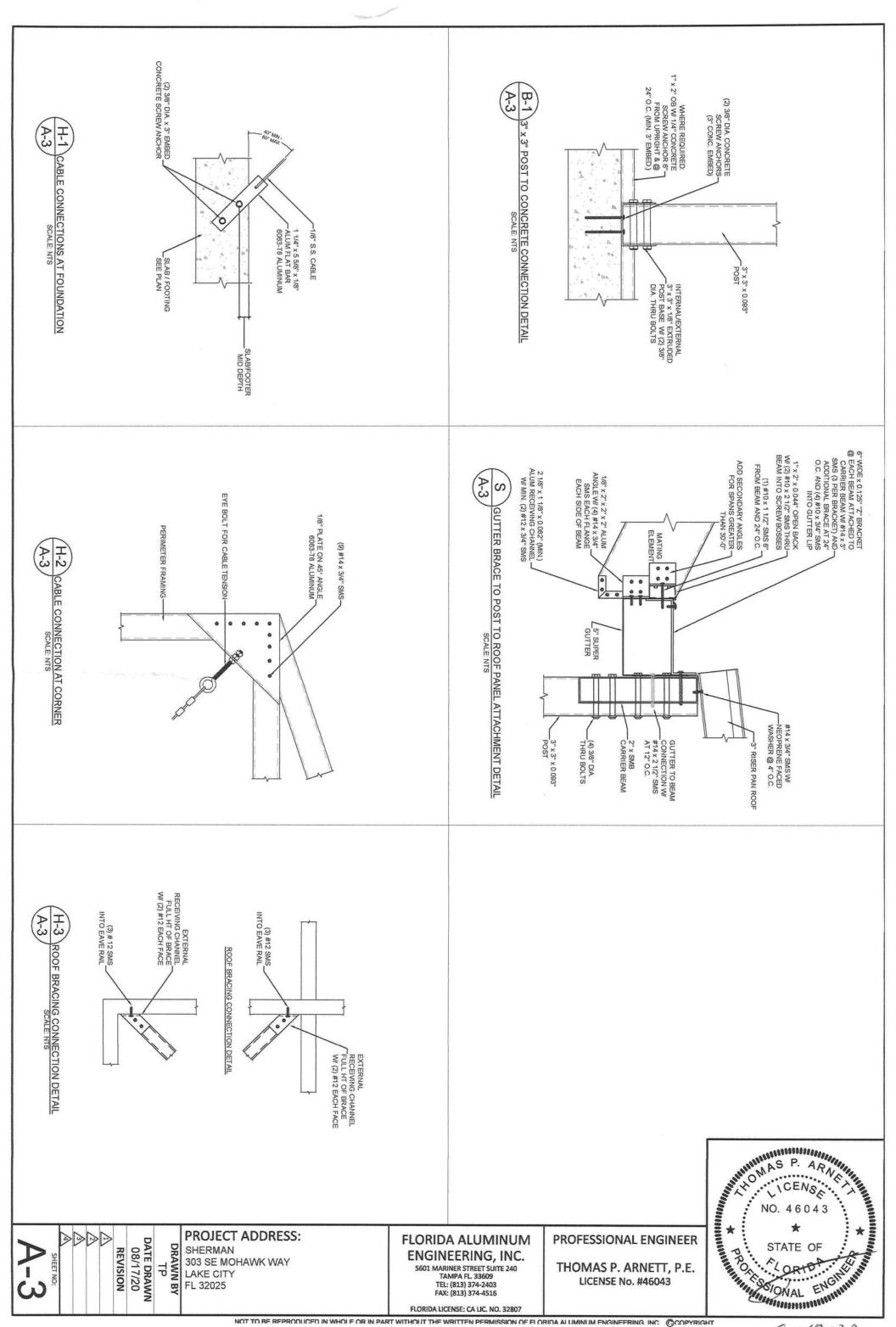
and engineering fee. Use of these plans acknowledges and accepts a limit of liability not to exceed design

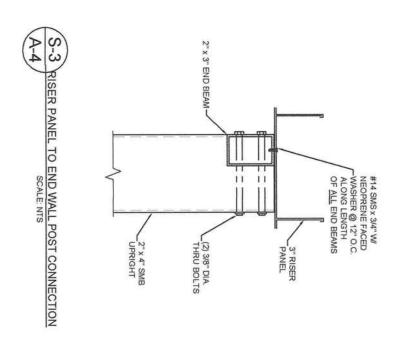


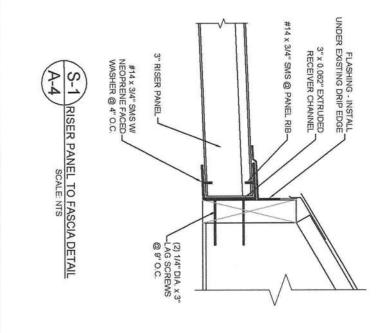
LICENSE No. #46043

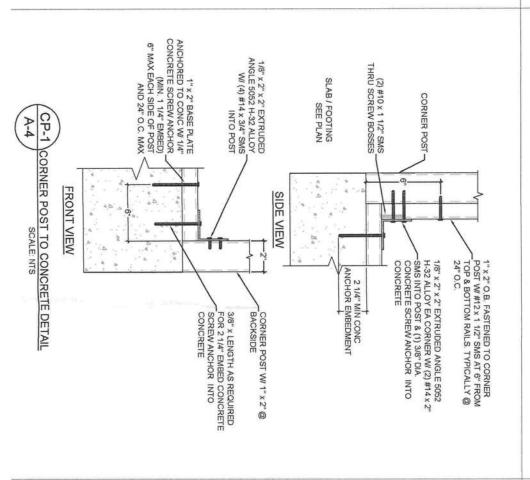
FAX: (813) 374-4516

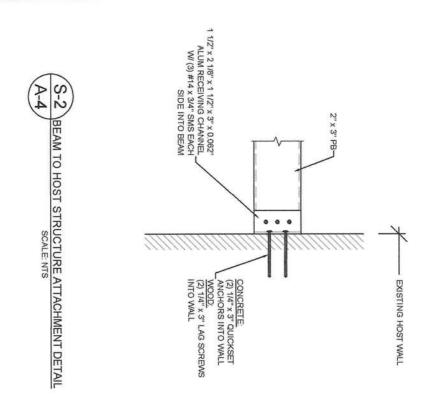


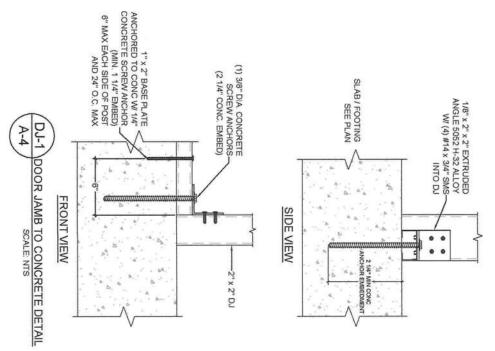


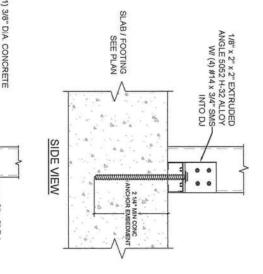












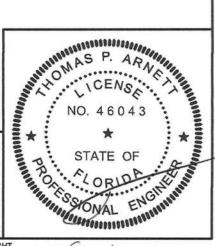
PROJECT ADDRESS: DATE DRAWN 08/17/20 DRAWN BY SHERMAN 303 SE MOHAWK WAY LAKE CITY FL 32025

FLORIDA ALUMINUM ENGINEERING, INC.

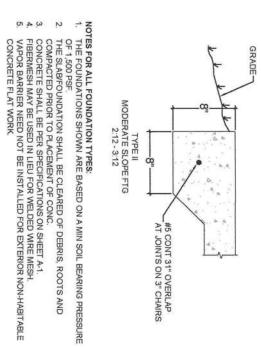
5601 MARINER STREET SUITE 240 **TAMPA FL. 33609** TEL: (813) 374-2403

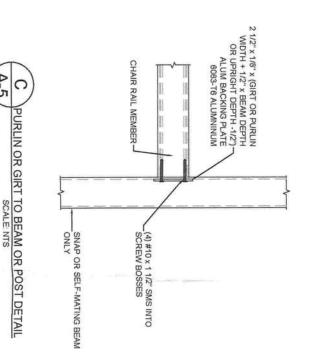
FAX: (813) 374-4516 FLORIDA LICENSE: CA LIC. NO. 32807 PROFESSIONAL ENGINEER

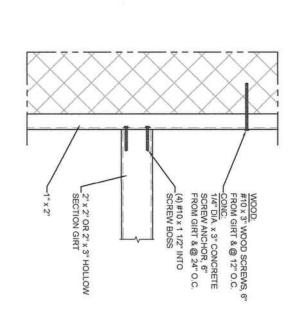
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C-1 1X2 TO HOST STRUCTURE DETAIL SCALE: NTS

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