

CONTRACTOR: AFFORDABLE ALUMINUM SPECIALIST INC.  
DESIGN CRITERIA:

Applicable Codes, Regulations, and Standards

1. The 2007 Florida Building Code with 2009 Supplements, specifically Chapter 16 Structural Design, Chapter 20 Aluminum, and Chapter 23 Wood.
2. AA ASM 35 and Specifications for Aluminum Structures, Part 1-A and 1-B of the Aluminum Design Manual prepared by The Aluminum Association, Inc. Washington, D.C., 2005 Edition
3. ASCE 7-05.

Wind Loads

1. Building Occupancy Category, Paragraph 1604.5 and Table 1604.5: Category 1.
2. Basic Wind Speed, Table 1609 State of Florida Debris Region & Basic Wind Speed, Paragraph 1609.3.1 and Table 1609.3.1 Equivalent Basic Wind Speed: **110 MPH**.
3. Building Category, Paragraph 1609.4.3: **B**
- 2002.6: Building Category 1.

Foundation Design

Actual Maximum Beam Span: **326"**  
Footing Size: **Foundation design not included. No additional footing or foundation system is required by the proposed construction if a minimum 4" concrete slab is provided.**

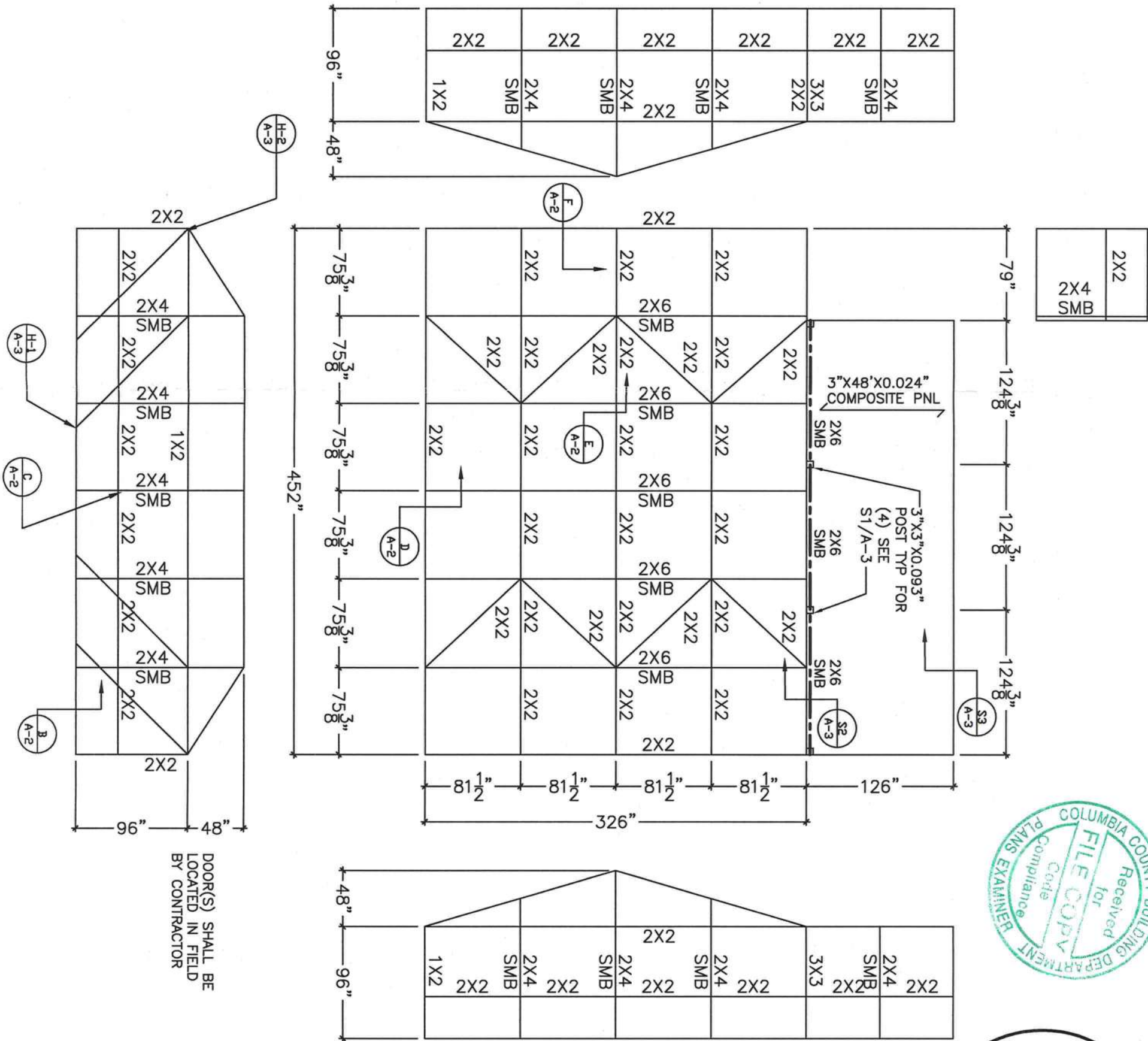
Specifications

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:
    - i. Portland Cement Type 1, -ASTM C 150
    - ii. Aggregates - Large Aggregate  $\frac{3}{4}$ " max - ASTM C 33
    - iii. Air entraining +/- 1% - ASTM C 260
    - iv. Water reducing agent - ASTM C 494
    - v. Clean Potable water
    - vi. Other admixtures not permitted
  - b. Metal accessories shall conform to:
    - i. Reinforcing Bars - ASTM A615, grade 60
    - ii. Welded wire fabric - ASTM A185
  - c. Concrete slump at discharge chute not less than 3" or more than 5". Water added after batching is not permitted.
  - d. Prepare and place concrete per American Concrete Institute Manual of Standard Practice, Parts 1, 2, and 3 including hot weather recommendations.
  - e. Moist cure or polyethylene curing permitted.
  - f. Prior to placing concrete, treat the entire subsurface area for termites in compliance with the FBC.
  - g. Concrete shall be placed over a polyethylene vapor barrier.
2. Aluminum extrusions shall be 6005 T5 Alloy
3. Fasteners are required to be SAE Grade 2 or better zinc plated.
4. All Self Mating Beam Sections are to be stitched with #14 screws 6" from ends and 24" center to center.
5. The minimum nominal thickness of protector panels (kickplates) shall be an industry standard of 0.024 inches.
6. Screened enclosures containing swimming pools shall comply with the applicable requirements of FBC R4101.17 Residential Swimming Barrier requirements.
7. Screen Fabric:  $\frac{1}{4}$ " standard of  $\frac{20}{10}$  Betterview. No other fabric is permitted without prior written approval by Suncoast Architecture & Engineering, LLC

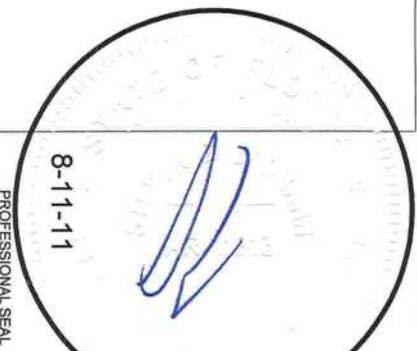
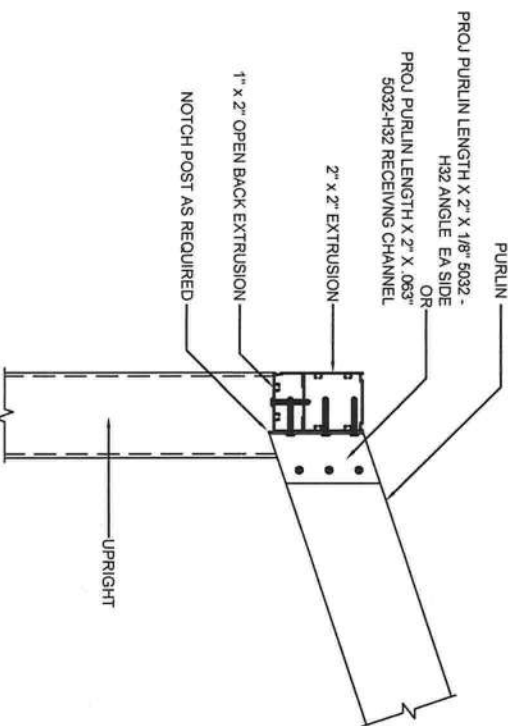
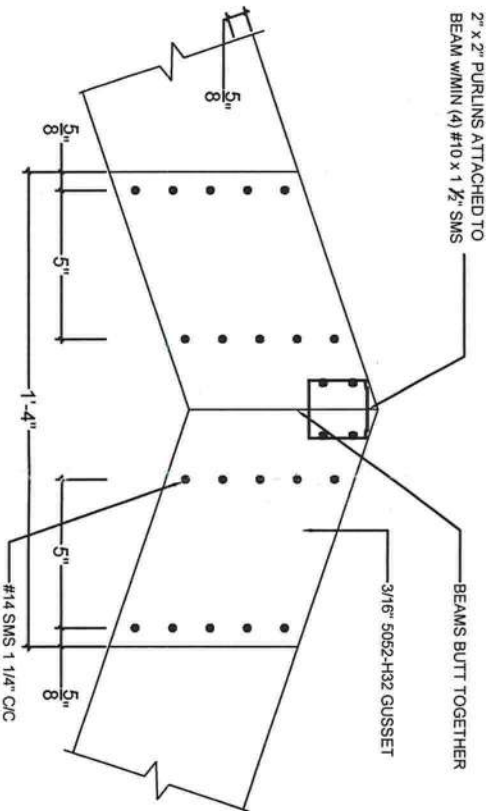
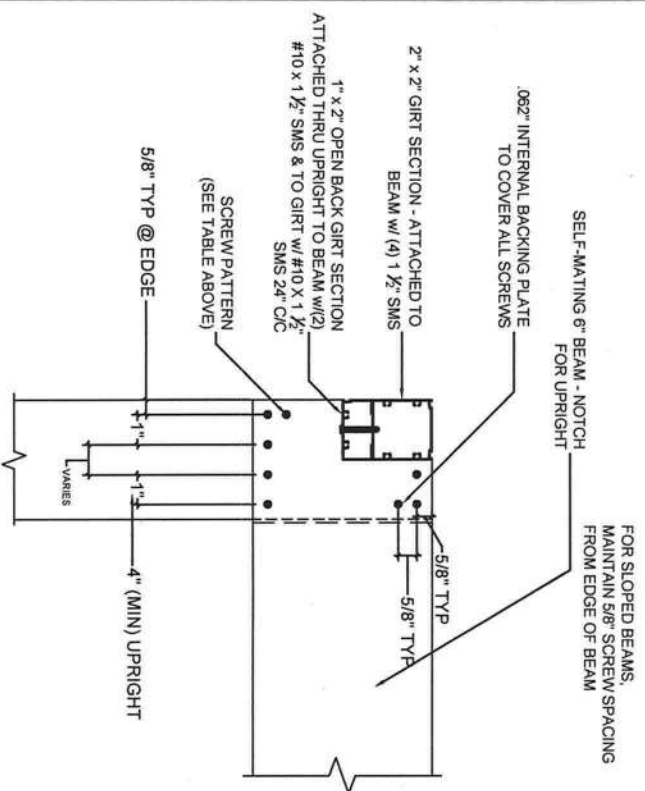
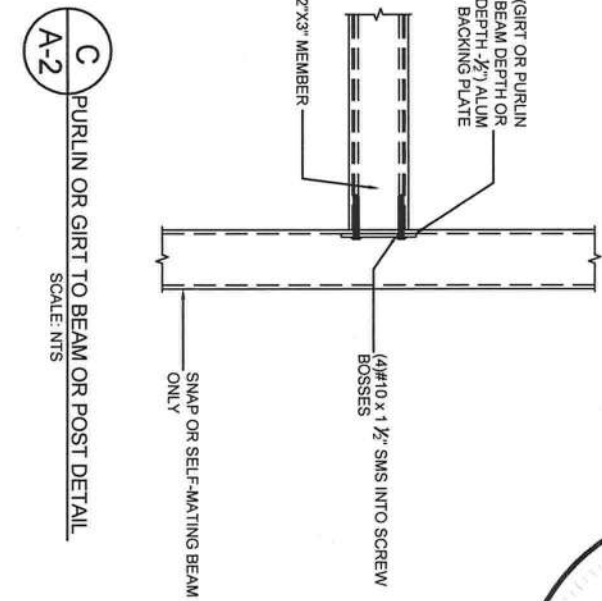
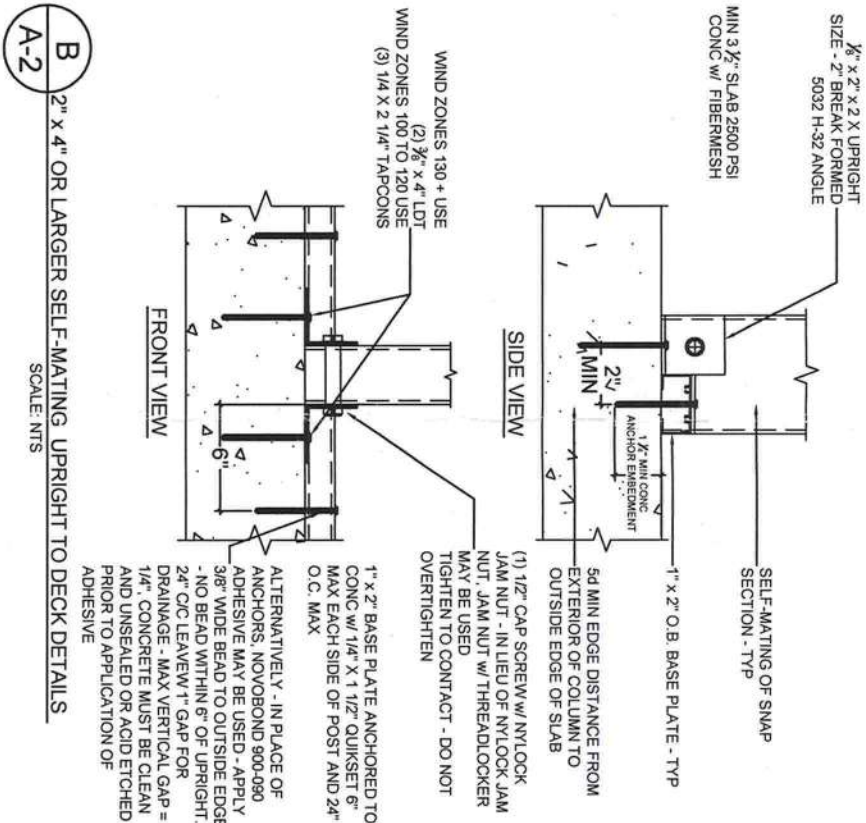
Roof Type

Roof Type: **HIPPED GABLE**





ALUMINUM MEMBERS DIMENSIONS			
HOLLOW SECTIONS			
2 x 2: 2" x 2" x 0.044"			
2 x 3: 2" x 3" x 0.050"			
2 x 4: 2" x 4" x 0.050"			
2 x 5: 2" x 5" x 0.050"			
OPEN BACK SECTIONS			
1 x 2: 1" x 2" x 0.040"			
1 x 3: 1" x 2" x 0.045"			
SNAP SECTIONS			
2 x 2 Snap: 2" x 2" x 0.045"			
2 x 3 Snap: 2" x 3" x 0.050"			
2 x 4 Snap: 2" x 4" x 0.045"			
SELF MATING (SMB)			
2 x 4 SMB: 2" x 4" x 0.044" x 0.100"			
2 x 5 SMB: 2" x 5" x 0.050" x 0.100"			
2 x 6 SMB: 2" x 6" x 0.050" x 0.120"			
2 x 7 SMB: 2" x 7" x 0.057" x 0.120"			
2 x 8 SMB: 2" x 8" x 0.072" x 0.124"			
2 x 9 SMB: 2" x 9" x 0.072" x 0.124"			
2 x 10 SMB: 2" x 10" x 0.092" x 0.398"			
RIGID LIGHT CONNECTION #14 SCREWS			
UPRIGHT	BEAM	NO. SCREWS	
2 X 4 SMB	2 X 4 SMB	5	
2 X 4 SMB	2 X 5 SMB	8	
2 X 4 SMB	2 X 6 SMB	8	
MINIMUM 2 X 5 SMB UPRIGHT FOR BEAMS LARGER THAN 2 X 6 SMB			
2 X 5 SMB	2 X 4 SMB	5	
2 X 5 SMB	2 X 5 SMB	6	
2 X 5 SMB	2 X 6 SMB	6	
2 X 5 SMB	2 X 7 SMB	6	
2 X 5 SMB	2 X 8 SMB	9	
MINIMUM 2 X 6 SMB UPRIGHT FOR BEAMS LARGER THAN 2 X 8 SMB			
2 X 6 SMB	2 X 4 SMB	5	
2 X 6 SMB	2 X 5 SMB	6	
2 X 6 SMB	2 X 6 SMB	6	
2 X 6 SMB	2 X 7 SMB	6	
2 X 6 SMB	2 X 8 SMB	9	
2 X 6 SMB	2 X 9 SMB	12	
2 X 6 SMB	2 X 10 SMB	12	
USE 2 X 6 SMB FASTENER SCHEDULE FOR UPRIGHTS 2 X 7 SMB AND LARGER			



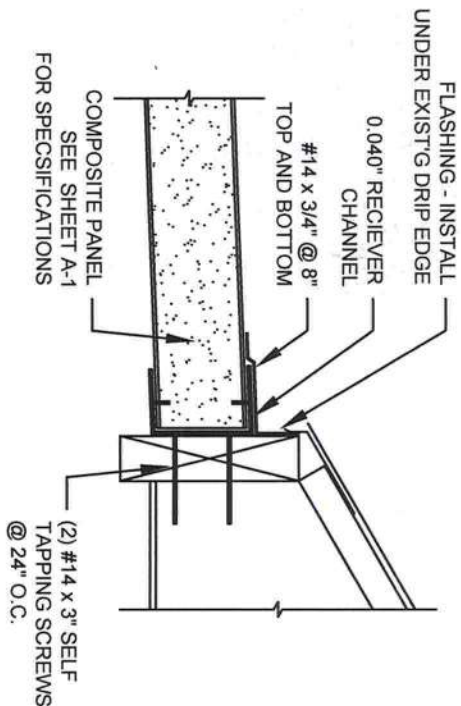
**STEVEN B. ERDMANN**  
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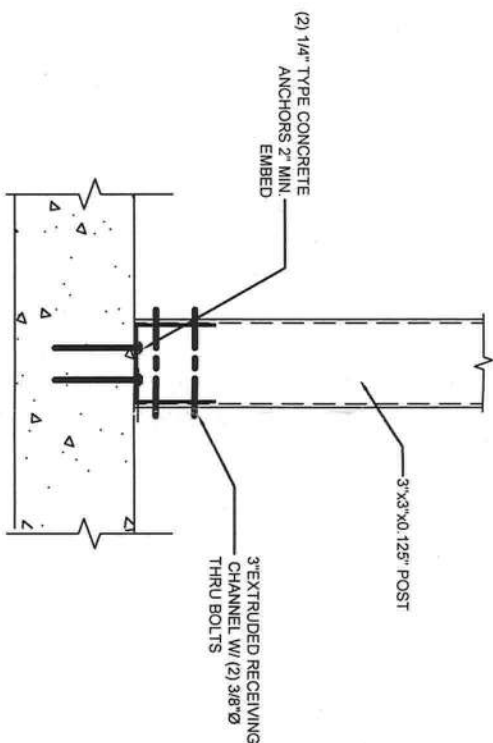
**PROJECT ADDRESS:**  
PLACENCIA  
370 SW MAGNOLIA LANE  
FORT WHITE, FL 32038

**A-2**  
DETAILS

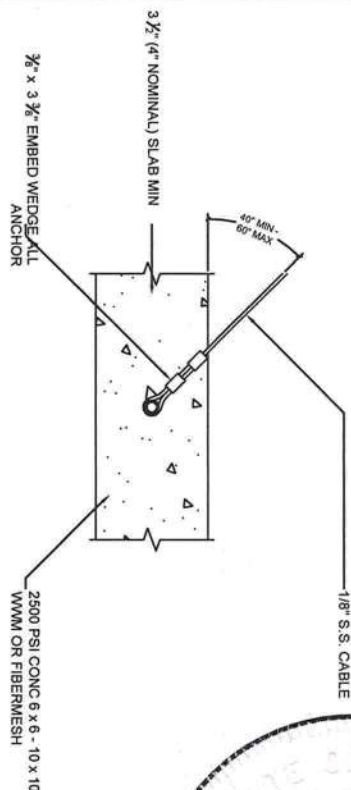




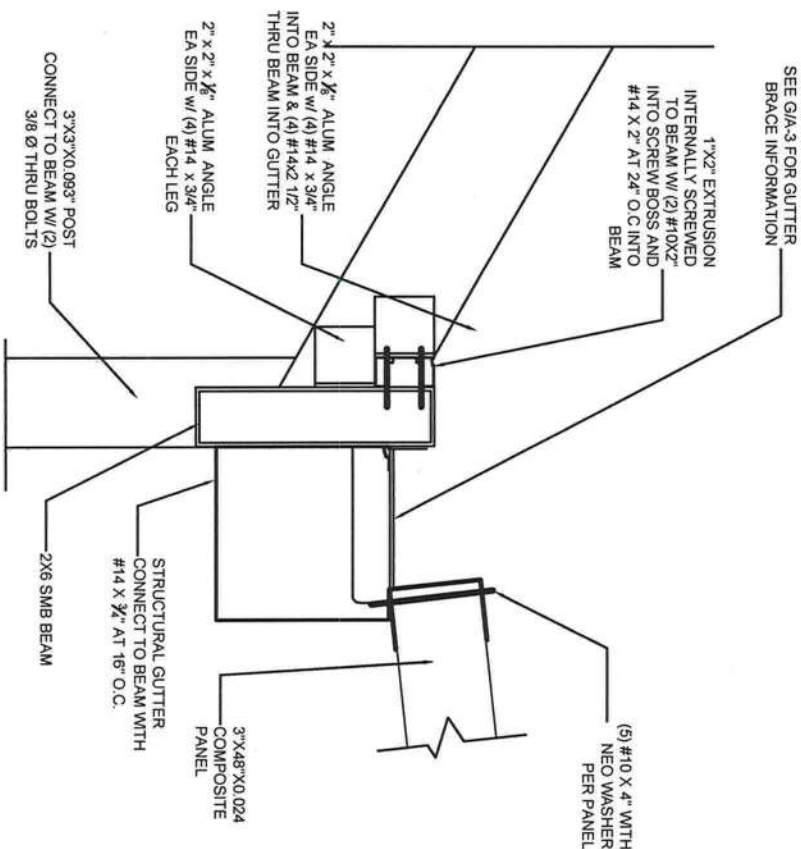
**S3**  
A-3  
ROOF PANEL TO FASCIA  
SCALE: NTS



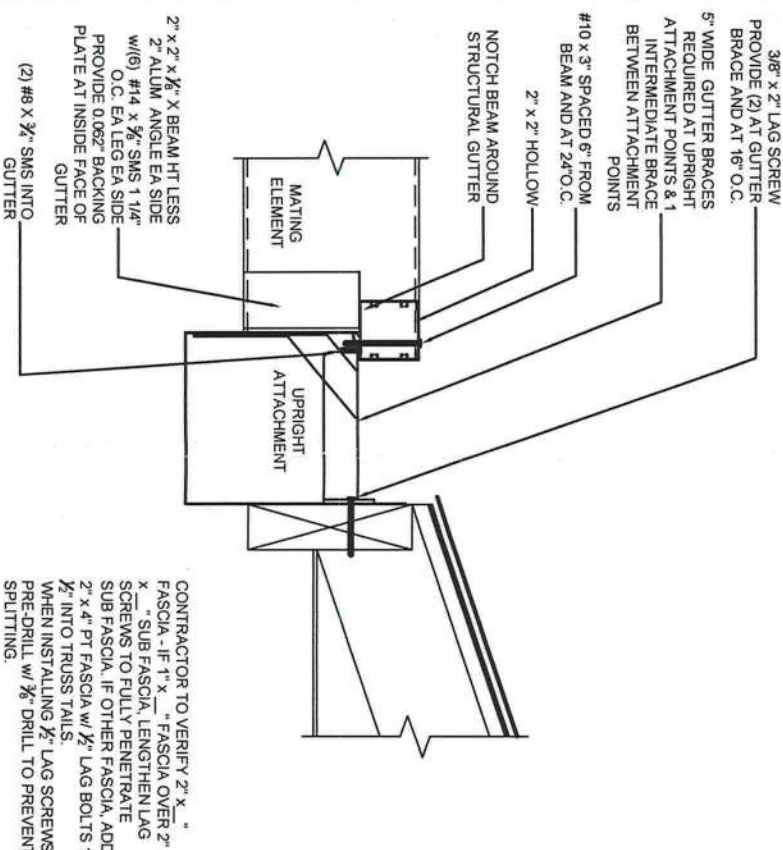
**S1**  
A-3  
POST BASE DETAIL  
SCALE: NTS



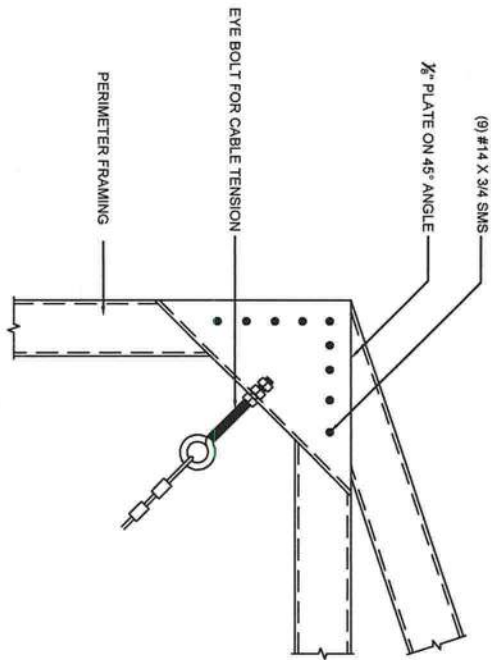
**H-1**  
A-3  
CABLE CONNECTIONS AT FOUNDATION  
SCALE: NTS



**S2**  
A-3  
CARRY BEAM  
NOT TO SCALE



**G**  
A-3  
EXTRUDED GUTTER BRACE & MATING ELEMENT ATTACHMENT DETAIL  
SCALE: NTS



**H-2**  
A-3  
CABLE CONNECTION AT CORNER  
SCALE: NTS

8-11-11

PROFESSIONAL SEAL

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