

**General Notes**

**A. CONCRETE & FOUNDATION DESIGN:**

- ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000 PSI MINIMUM.
- ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI MINIMUM, 3 1/2" NOMINAL THICKNESS.
- 3000 PSI FIBERMESH (3/4" PER CUBIC YARD MIN.) MEETING APPROPRIATE ACI AND ASTM REQUIREMENTS MAY BE USED IN LIEU OF WELDED WIRE MESH
- ALL SLABS ON GRADE SHALL BE 4" THICK WITH FIBERMESH. TERMITES TREATMENT OF SOIL BENEATH SLAB IS NOT REQUIRED IF SLAB DOES NOT ABUT A WOOD FRAME STRUCTURE. NO WOOD FRAME STRUCTURE MAY BE BUILT ADJACENT TO OR ON TOP OF A SLAB WITHOUT TREATING THE SOIL FOR WOOD DESTROYING ORGANISMS.
- ALL REINFORCING SHALL CONFORM TO ASTM A615, BE GRADE 60 (60 KSI MIN.) DEFORMED BARS, #3 BARS MAY BE GRADE 40
- ALL OVER POUR CONCRETE FILLED SUPPORTED SLABS SHALL BE 3000 PSI MIN., 2" MINIMUM THICKNESS.
- SOIL BEARING PRESSURE SHALL BE A MINIMUM OF 1500 PSF.
- THE CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING:  
 OPC (PORTLAND CEMENT TYPE 1.- ASTM C 150).  
 AGGREGATES - #6 STONE , ASTM C 33 SIZE NO. 67 LESS THAN 3/4".  
 AIR ENTRAINING +/- 1% - ASTM C 260.  
 WATER REDUCING AGENT - ASTM C 494.  
 CLEAN POTABLE WATER.  
 OTHER ADMIXTURES SHALL NOT BE PERMITTED.
- METAL WELDED WIRE SHALL CONFORM TO ASTM A 185.
- PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, 2, & 3 ALONG WITH HOT WEATHER CONDITIONS RECOMMENDATIONS.
- IF UTILIZING EXISTING CONCRETE FOR FOUNDATION, CONCRETE SHALL BE A MINIMUM OF 4" IN THICKNESS, VISIBLY FREE OF ANY STRUCTURAL EXCESSIVE CRACKING, SPALLING OR OTHER DETERIORATION.

**B. MASONRY:**

- CONCRETE MASONRY UNITS (CMU) SHALL BE STANDARD HOLLOW UNITS AND SHALL BE 1900 PSI MINIMUM BASED ON TYPE M OR S MORTAR.
- ALL MORTAR SHALL BE OF TYPE M OR S.
- ALL GROUT SHALL BE 2000 PSI MINIMUM AND HAVE MAXIMUM COARSE AGGREGATE SIZE OF 3/8".
- PROVIDE CLEAN-OUTS FOR REINFORCED CELLS CONTAINING REINFORCEMENT WHEN GROUT POUR EXCEEDS 5'-0" IN HEIGHT.

**C. ALUMINUM:**

- ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF **6005-T5** FOR ALLOY WITH A MINIMUM THICKNESS OF 0.040" FOR SUPPORTING MEMBERS.
- WHERE KICK PLATES ARE USED A MINIMUM THICKNESS OF 0.024" SHALL APPLY.
- STRUCTURAL ALUMINUM DESIGN CONFORMS TO "PART 1-A - SPECIFICATIONS FOR ALUMINUM STRUCTURES - ALLOWABLE STRESS DESIGN" OR "PART 1-B - SPECIFICATIONS FOR ALUMINUM STRUCTURES - BUILDING LOAD AND RESISTANCE FACTOR DESIGN" OF THE CURRENT ALUMINUM DESIGN MANUAL PREPARED BY THE ALUMINUM ASSOCIATION, INC. WASHINGTON D.C. THE FLORIDA BUILDING CODE, 7TH EDITION ( CHAPTER 16 STRUCTURAL DESIGN & CHAPTER 20 ALUMINUM).
- WHERE ALUMINUM COMES INTO CONTACT WITH STEEL, OR PRESSURE TREATED LUMBER PROVIDE DIELECTRIC SEPARATION.
- ALUMINUM MEMBERS SHALL BE STITCHED WITH NO LESS THAN #10 SMS 6" FROM THE ENDS AND 12" ON CENTER, IF USING #12 SPACING MAY BE 24" ON CENTER.
- VINYL AND ACRYLIC PANELS SHALL BE REMOVABLE. THEY SHALL BE IDENTIFIED WITH A DECAL ESSENTIALLY STATING "REMOVABLE PANEL SHALL BE REMOVED WHEN WIND SPEEDS EXCEED 75 MPH" . DECAL SHALL BE PLACED SO IT IS VISIBLE WHEN PANEL IS INSTALLED.

**D. FASTENERS:**

- ALL LAG BOLTS SHALL CONFORM TO STAINLESS STEEL TYPE 300 18-8, WITH STANDARD FLAT WASHER UNLESS MANUFACTURER GALVANIZES BOLTS SPECIFIES FOR USE WITH ACQ PRESSURE TREATED WOOD.
- HEX BOLTS HAS TO BE ASTM A 325, PLATED WITH STANDARD FLAT WASHERS AND NUTS.
- ALL CONCRETE SCREWS SHALL BE, SIMPSON, HILTI, RAWL, TAPCON, REDHEAD, DYNABOLT, OR APPROVED EQUAL.
- ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.

- ALL LAG BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 8X BOLT DIAMETER INTO STRUCTURAL FRAMING (G=42 MIN.). LAG BOLTS AND SCREWS INTO WOOD FRAMING SHALL BE PROVIDED WITH PILOT HOLES HAVING A DIAMETER NOT GREATER THAN 70 PERCENT OF THE THREAD DIAMETER OF THE BOLT OR SCREW. ALL LAG BOLTS AND SCREWS SHALL BE INSERTED IN PILOT HOLES BY TURNING AND UNDER NO CIRCUMSTANCES BY DRIVING WITH A HAMMER.
- ALL EXPANSION ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH THE SPECIFIC MANUFACTURER'S REQUIREMENTS AND ALLOWABLE LOADS AND SHALL ONLY BE APPLIED IN CONDITIONS ACCEPTABLE TO MANUFACTURER. FASTENERS SHALL BE A MINIMUM OF SAE GRADE #5 OR BETTER ZINC PLATED.
- ALL FASTENERS CONNECTING ALUMINUM COMPONENTS OR PRESSURE TREATED LUMBER ARE STAINLESS STEEL TYPE 300 18-8, UNLESS MANUFACTURER GALVANIZED BOLTS SPECIFIES FOR USE WITH ACQ PRESSURE TREATED WOOD, OR OTHERWISE NOTED ON PLANS.
- ALL FASTENERS SHALL COMPLY WITH ASTM A153.
- ALL CONNECTORS SHALL COMPLY WITH ASTM A653 CLASS G-185.
- FOR SMS, THE MINIMUM CENTER-TO-CENTER SPACING SHALL BE 3/4" AND MINIMUM CENTER-TO-EDGE SHALL BE 1/2" UNLESS NOTED OTHER WISE.

**E. REFERENCE STANDARDS:**

- ASTM E 119
- ASTM E 1300
- ASCE 7 -16
- AA ASM35, AND SPEC. FOR ALUMINUM PART 1-A, & 1-B
- ASTM C94
- ASTM C150
- ASTM C33
- ASTM C260
- ASTM C494
- ASTM A615
- ASTM A185

**FLORIDA BUILDING CODE (CHAPTERS 16, 20 AND 23)  
7TH EDITION  
CURRENT ALUMINUM DESIGN MANUAL.**

**F. ABBREVIATIONS:**

THE FOLLOWING LIST OF ABBREVIATIONS IS NOT INTENDED TO REPRESENT ALL THOSE USED ON THESE DRAWINGS, BUT TO SUPPLEMENT THE MORE COMMON ABBREVIATIONS.

- TYP -- TYPICAL
- SIM -- SIMILAR
- UON -- UNLESS OTHERWISE NOTED
- CONT -- CONTINUOUS
- VIF -- VERIFY IN FIELD

**G. RESPONSIBILITY:**

- ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDINANCES, ETC.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS, NOTIFYING ENGINEER OF ANY DISCREPANCIES BETWEEN DRAWINGS, FABRICATED ITEMS, OR ACTUAL FIELD CONDITIONS.
- THESE DRAWINGS REPRESENT THE ACCEPTABILITY OF THE 'SUNROOM' ROOM ADDITION ELEMENTS AS PROVIDED BY THE CONTRACTOR.
- ALL DETAILS ON THESE DRAWINGS ARE ENGINEERED BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND MANUFACTURER.
- ANY DETAILS NOT SHOWN ARE TO BE ENGINEERED BY A LICENSED P.E. IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES.

**H. MISCELLANEOUS:**

- ALUMINUM ADDITIONS ARE NOT TO BE INSTALLED ON A MANUFACTURED HOME, TRAILER HOME, OR PRE-FAB HOME WITHOUT A MANUFACTURER'S HOST BEAM. IF NO HOST BEAM IS PRESENT A SEPARATE 4TH WALL SUPPORT SYSTEM SHALL BE ENGINEERED SO THAT NO ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED HOME.
- IF ENCLOSURE CONTAINS A SWIMMING POOL OR SPA, THE ENCLOSURE SHALL COMPLY WITH RESIDENTIAL SWIMMING BARRIER REQUIREMENTS OF THE FBC 7TH EDITION R 4501.17.1 IN ITS ENTIRETY.
- DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR.
- IF PAVERS ARE UNDER ALUMINUM MEMBERS THEY SHALL HAVE EPOXY ADHESIVE TO CONCRETE OR IF USING GROUT, ENSURE BONDING AGENT IS USED FIRST.

- SCREENING MATERIAL SHALL BE 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH ONLY UNLESS NOTED OTHERWISE.
- EMERGENCY ESCAPE & RESCUE OPENING PER FBC R310.1 SHALL BE VERIFIED BY CONTRACTOR & BUILDING OFFICIAL
- ENCLOSED ADDITIONS TO MANUFACTURED HOMES SHALL NOT CHANGE THE EXIT FACILITIES FOR EGRESS PER HUD 3280.105, (a) THROUGH (a)(2)(iv), SO THAT THE DISTANCE TO EXIT DIRECTLY OUTSIDE FROM ALL BEDROOMS IS LESS THAN 35', AND, SO THAT TWO EXITS DIRECTLY OUTSIDE ARE STILL MAINTAINED. A CARPORT OR SCREEN ROOM SHALL BE CONSIDERED AS OUTSIDE. NON-HABITABLE SUNROOMS OR HABITABLE LIVING SPACE MAY BE ADDED WHERE AN EXIT DOOR WAS LOCATED AS LONG AS A NEW EXIT DOOR IS ADDED AND MEETS THE REQUIREMENTS OF HUD 3280.105.



**DESCRIPTION: SREEN ROOM ON EXISTING WOOD DECK**

**DESIGN DATA:**

- ULTIMATE DESIGN WIND SPEED Vult, (3 SECOND GUST): 110 MPH**  
 NOMINAL DESIGN WIND SPEED Vasd: 90 MPH
  - RISK CATEGORY: I
  - WIND EXPOSURE: C
  - INTERNAL COEFFICIENT: SCREEN ROOM (OPEN STRUCTURE) +/- 0.00
  - WIND LOADS:  
 FACTOR APPLIED TO WIND LOADS FOR ALLOWABLE STRESS DESIGN: 0.6  
 SOLID ROOF (MWFRS): 19 PSF  
 SCREEN WALLS: 24 PSF  
 COMPONENT & CLADDING PRESSURES:  
 ROOF ZONE 1: 8.8/-34.7 PSF  
 ROOF ZONE 2: 8.8/-45.7 PSF  
 ROOF ZONE 3: 8.8/-62.3 PSF
  - EXISTING WOOD DECK SHALL CONFORM TO ENGINEERING DETAILS PROVIDED FOR SPANS AND CONNECTIONS. AUGER ANCHORS SHALL BE ADDED AT ALL PERIMETER PIERS/POSTS
  - SOLID ROOF TYPE: 3" x .024" COMPOSITE PANEL ROOF, FL 7561 OR EQUIV.
- WOOD DECK: LIVE LOAD 40PSF  
DEAD LOAD 10PSF

**ALUMINUM STRUCTURAL MEMBERS**

**HOLLOW SECTIONS**

- 2 x 2: -----2" x 2" x 0.044"
- 3 x 2: -----3" x 2" x 0.050"
- 2 x 3: -----2" x 3" x 0.050"
- 2 x 3: -----2" x 3" x 0.070"
- 2 x 4: -----2" x 4" x 0.050"
- 2 x 5: -----2" x 5" x 0.050"
- 3 x 3: -----3" x 3" x 0.072"
- 3 x 3: -----3" x 3" x 0.093"
- 3 x 3: -----3" x 3" x 0.125"
- 4 x 4: -----4" x 4" x 0.125"

**OPEN BACK SECTIONS**

- 1 x 2:-----1" x 2" x 0.040"
- 1 x 3:-----1" x 3" 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 0.118"
- 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 0.224"
- 2 x 9 SMB:----- 2" x 9" x 0.072" x 0.224"
- 2 x 10 SMB:----- 2" x 10" x 0.092" x 0.374"

**INDEX**

- S-1 GENERAL NOTES
- S-2 DRAWING PLANS & ELEVATIONS
- S-3 DETAILS - SCREEN ROOM
- S-4 DETAILS - SCREEN ROOM
- S-5 DETAILS - WOOD DECK

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-16 AND FBC 7TH EDITION RESIDENTIAL AND EXISTING BUILDING

Digitally signed by Joel A Falardeau  
 Date: 2022.04.19 16:26:20 -04'00'  
 PROFESSIONAL ENGINEER SEAL

**ENGINEER OF RECORD:**

David W. Smith P.E.  
 FLORIDA LICENSE NUMBER: 53608

Thomas L. Hanson P.E.  
 FLORIDA LICENSE NUMBER: 38654

Ian J. Foster P.E.  
 FLORIDA LICENSE NUMBER: 93654

Joel Falardeau P.E.  
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 C.O.A. - #29054

DATE: 03/29/2022

DRAWN BY: MARK DUNN SR.

REVISION:	DATE:
RO 1	
RO 2	
RO 3	
RO 4	

JOB# - 22\_0322\_312

**JOB NAME & ADDRESS:**

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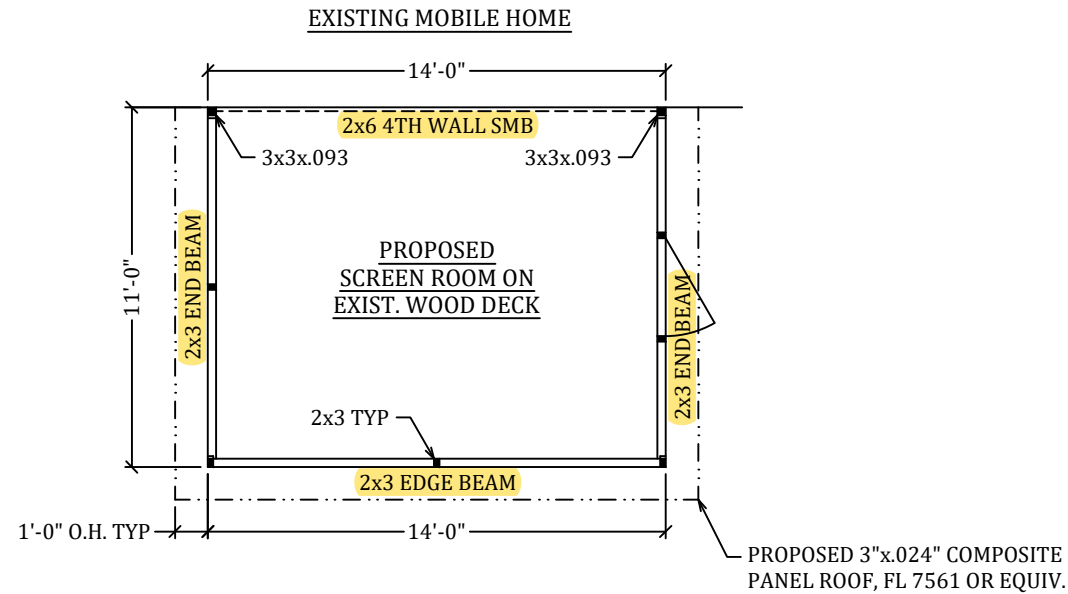
**CONTRACTOR:**

TIMBERLAKE ALUMINUM

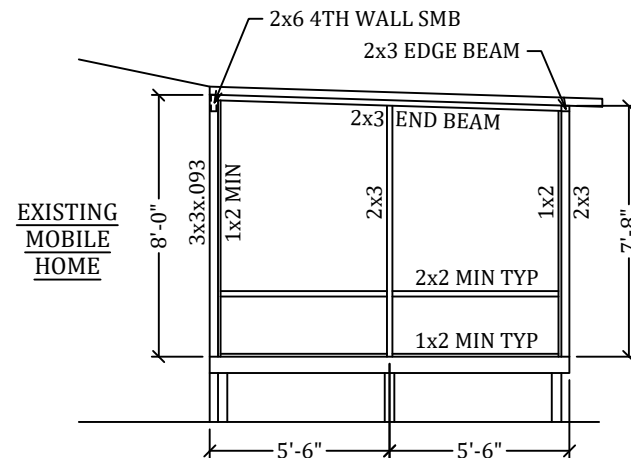
**ENGINEERS NOTES**

**S-1**

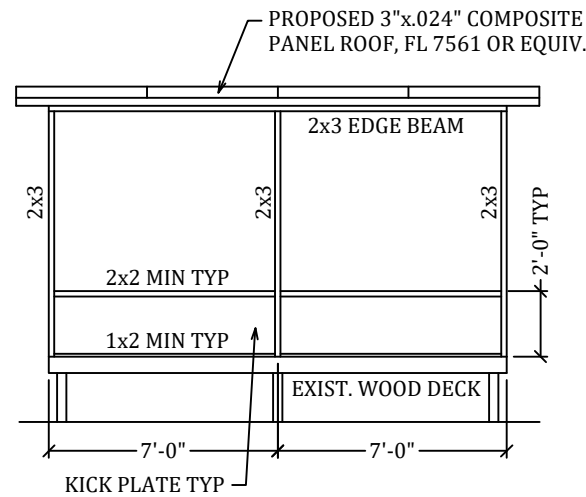
EXISTING WOOD DECK SHALL CONFORM TO ENGINEERING DETAILS PROVIDED FOR SPANS AND CONNECTIONS.



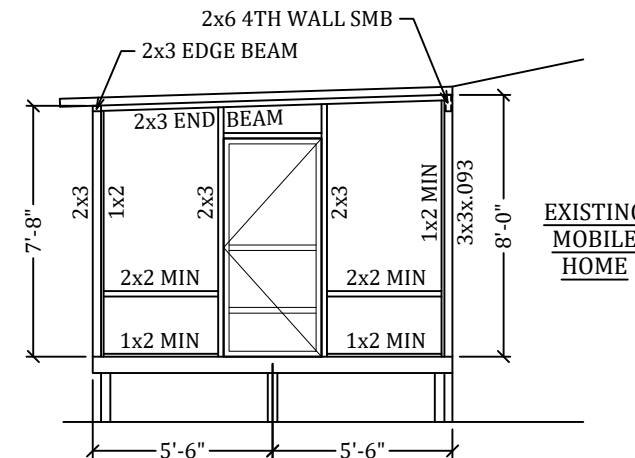
**PLAN VIEW**



**LEFT SIDE ELEVATION**



**FRONT ELEVATION**



**RIGHT SIDE ELEVATION**

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 FORT WHITE, FL 32038

**CONTRACTOR:**

TIMBERLAKE ALUMINUM

PLANS & ELEVATIONS  
**S-2**

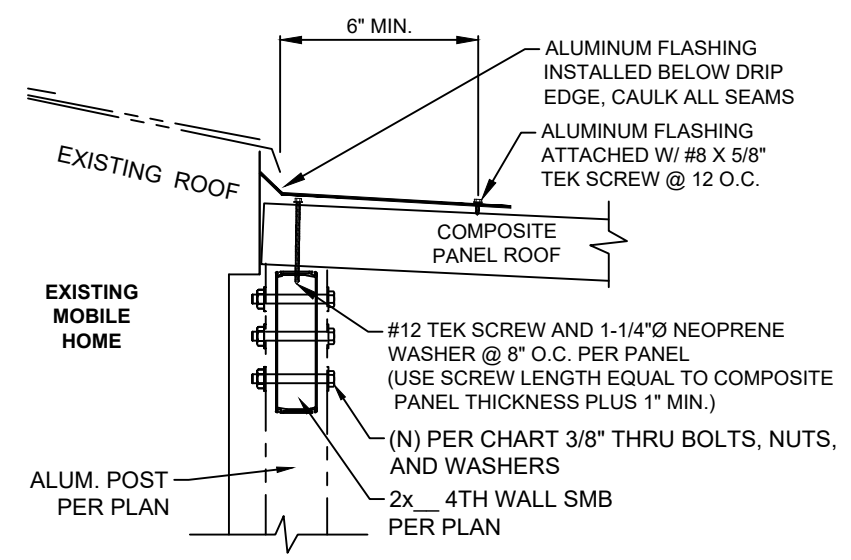
S.M.B. DEPTH "H"	S.M.B. WEB WALL	TUBE WALL "T"	CORROSION RESISTANT SIZE	UPLIFT CAPACITY
4"	.045"	.06"	(2) 3/8" BOLTS, NUTS, WASHERS	1,720 LBS
5"	.050"	.06"	(2) 3/8" BOLTS, NUTS, WASHERS	2,550 LBS
6"	.050"	.06"	(3) 3/8" BOLTS, NUTS, WASHERS	2,550 LBS
7"	.055"	.06"	(3) 3/8" BOLTS, NUTS, WASHERS	3,500 LBS
7"	.055"	.09"	(3) 3/8" BOLTS, NUTS, WASHERS	3,600 LBS
7"	.055"	.125"	(3) 3/8" BOLTS, NUTS, WASHERS	4,500 LBS
8"	.072"	.06"	(4) 3/8" BOLTS, NUTS, WASHERS	5,500 LBS
8"	.072"	.09"	(4) 3/8" BOLTS, NUTS, WASHERS	7,000 LBS
8"	.072"	.125"	(4) 3/8" BOLTS, NUTS, WASHERS	7,000 LBS
9"	.072"	.06"	(4) 3/8" BOLTS, NUTS, WASHERS	7,000 LBS
9"	.072"	.09"	(4) 3/8" BOLTS, NUTS, WASHERS	8,900 LBS
9"	.082"	.125"	(4) 3/8" BOLTS, NUTS, WASHERS	9,500 LBS
10"	.092"	.125"	(4) 3/8" BOLTS, NUTS, WASHERS	11,000 LBS

NOTE: OTHER BOLT SIZES AND QUANTITIES MAY BE USED PER SITE SPECIFIC PLANS AND CALCULATED UPLIFT CAPACITY REQUIRED

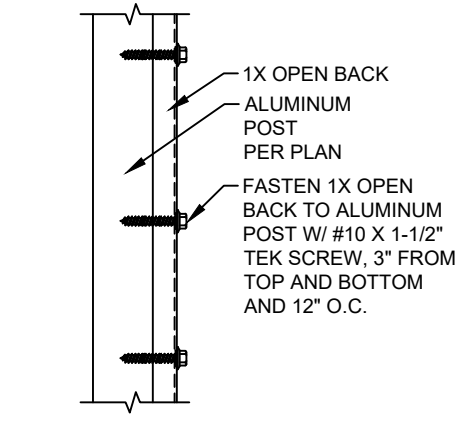
I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-16 AND FBC 7TH EDITION RESIDENTIAL AND EXISTING BUILDING

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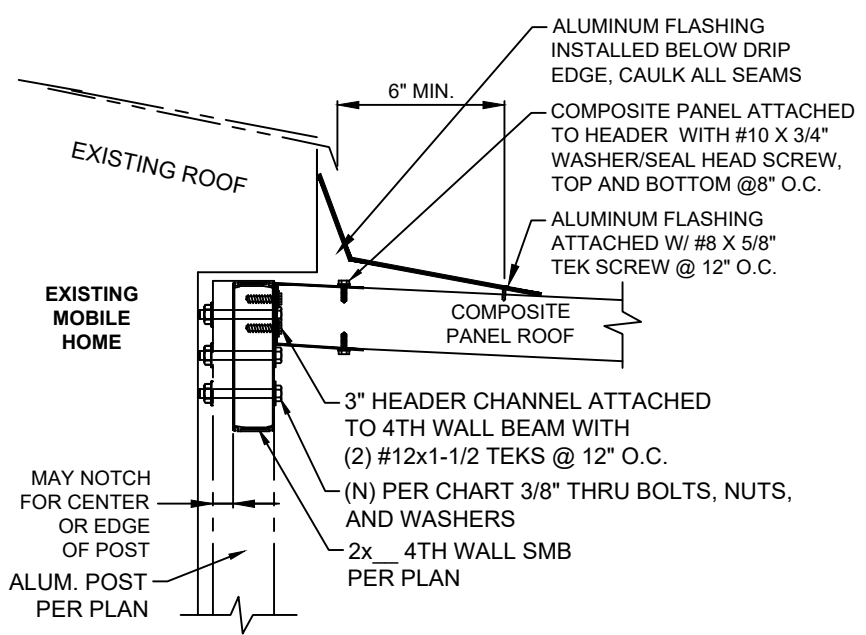
PROFESSIONAL ENGINEER SEAL



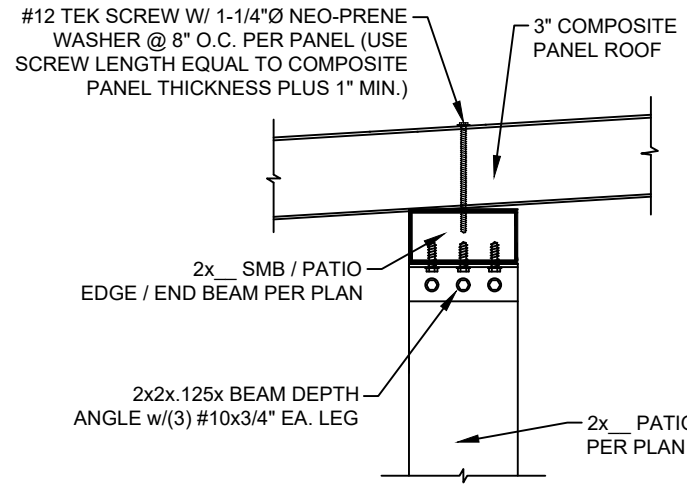
**4TH WALL CONNECTIONS  
COMPOSITE ROOF, POST AND BEAM  
(OPTION #1)**



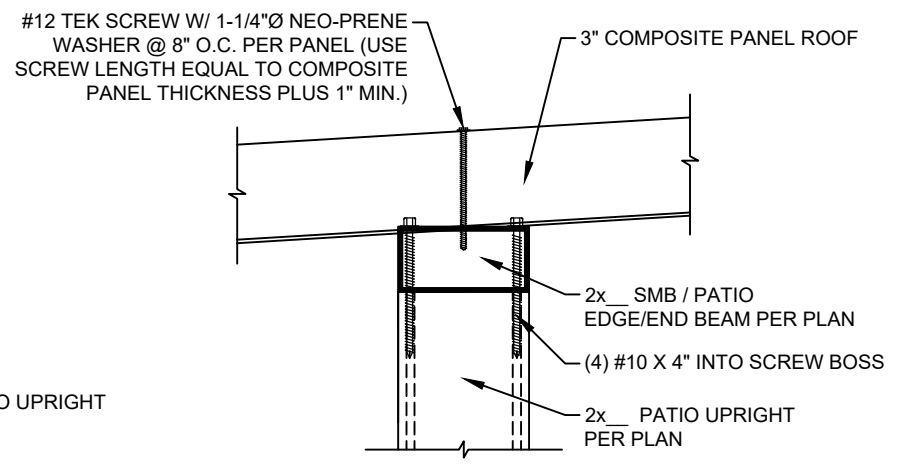
**1X OPEN BACK TO ALUMINUM POST DETAIL**



**4TH WALL CONNECTIONS  
COMPOSITE ROOF, POST AND BEAM  
(OPTION #2)**



**OPTION #1  
(EXTERNAL)**



**OPTION #2  
(INTERNAL)**

**COMPOSITE PANEL ROOF, POST, AND EDGE/END BEAM CONNECTION DETAIL**

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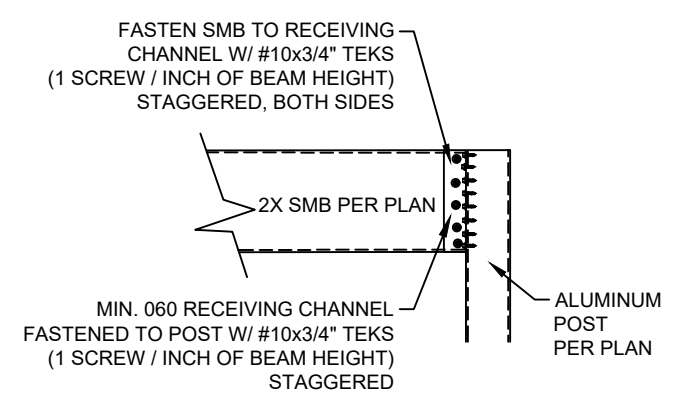
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2366 SW FRY AVE.  
FORT WHITE, FL 32038

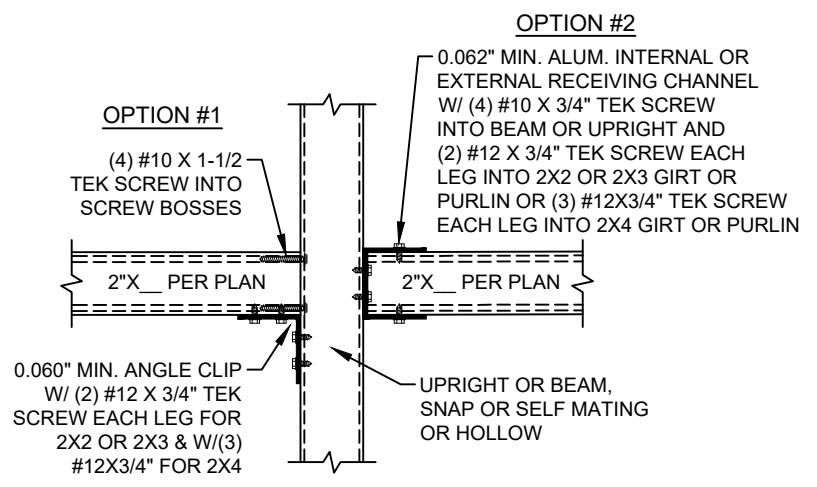
**CONTRACTOR:**

TIMBERLAKE ALUMINUM

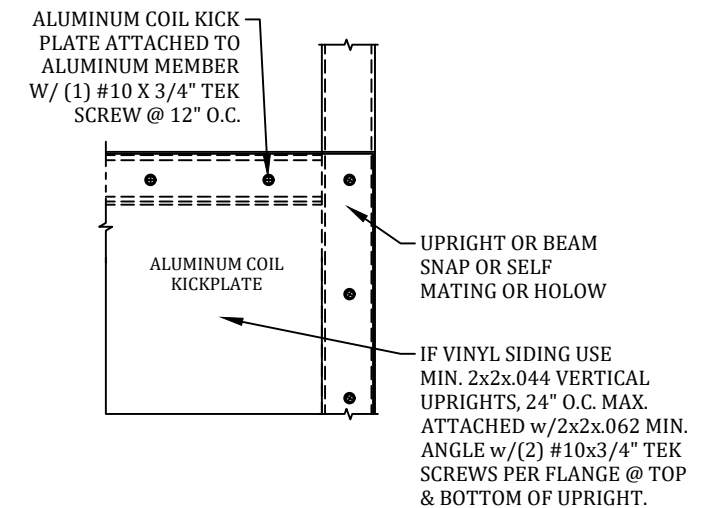
SCREEN ROOM DETAILS  
**S-3**



**BEAM TO POST CONNECTION**



**CHAIR RAIL AND GIRT CONNECTIONS**



**ALUMINUM COIL OR VINYL SIDING KICK PLATE TO ALUMIUM MEMBER**

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-16 AND FBC 7TH EDITION RESIDENTIAL AND EXISTING BUILDING

Digitally signed by Joel A Falardeau  
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RO 2	
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RO 4	

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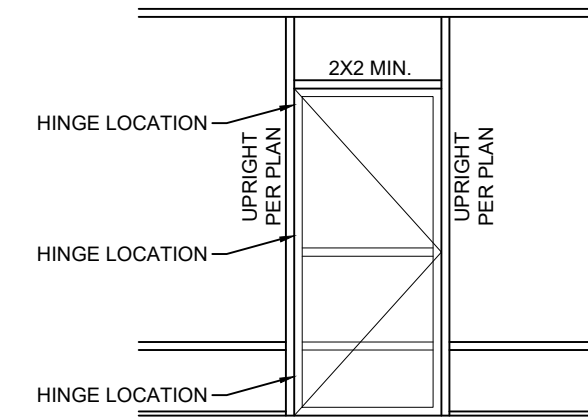
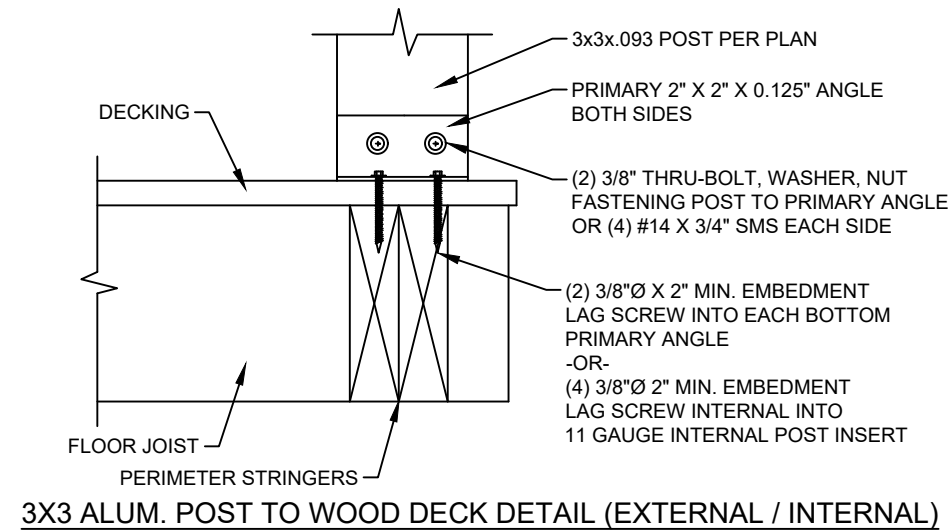
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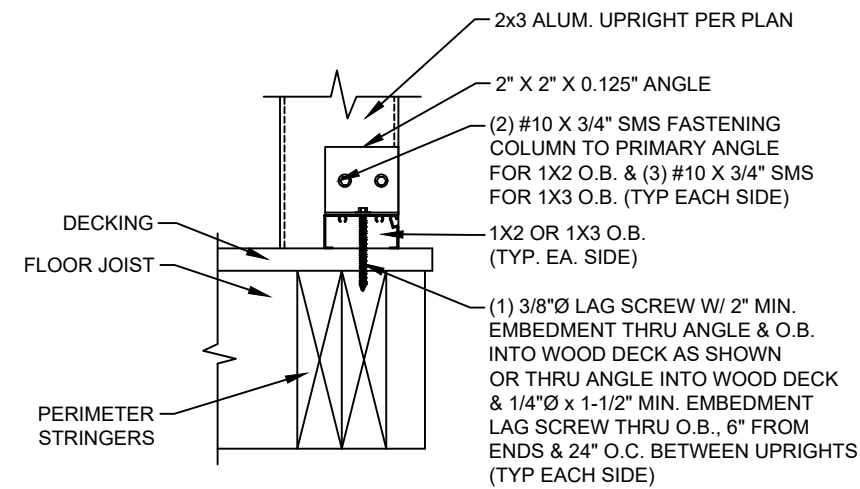
SCREEN ROOM DETAILS

S-4



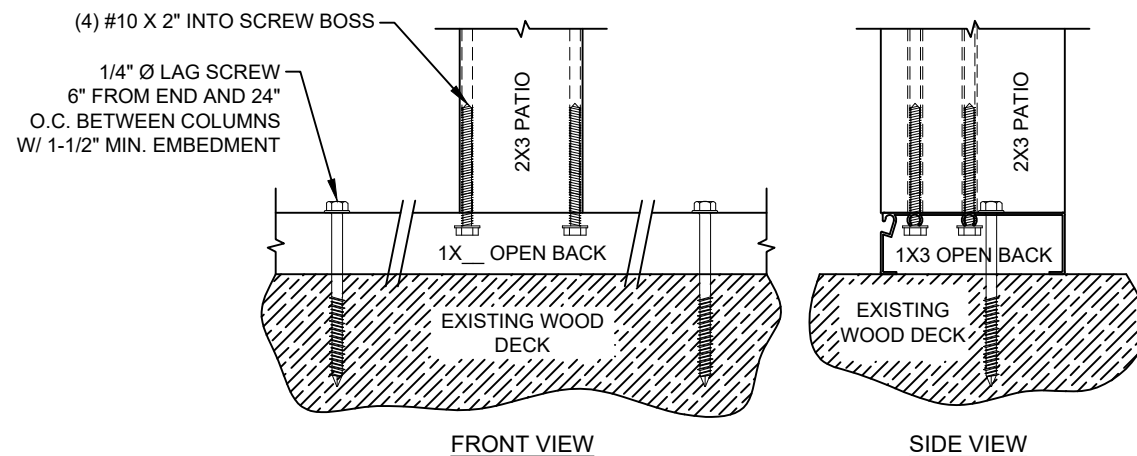
- NOTES:
- HINGES SHALL BE ATTACHED TO STRUCTURE W/ (3) #10 X 3/4" TEK SCREW MINIMUM.
  - DOOR SHALL BE ATTACHED TO ENCLOSURE W/ (2) HINGES MINIMUM.
  - HINGES SHALL BE ATTACHED TO DOOR WITH (3) #10 X 3/4" TEK SCREW. FASTEN A 1"X2"X0.044" TO UPRIGHT W/ #12 X 1-1/2" TEK SCREW @ 12" O.C. AND WITHIN 3" FROM END OF THE UPRIGHT.

**TYPICAL SCREEN DOOR CONNECTION DETAIL**

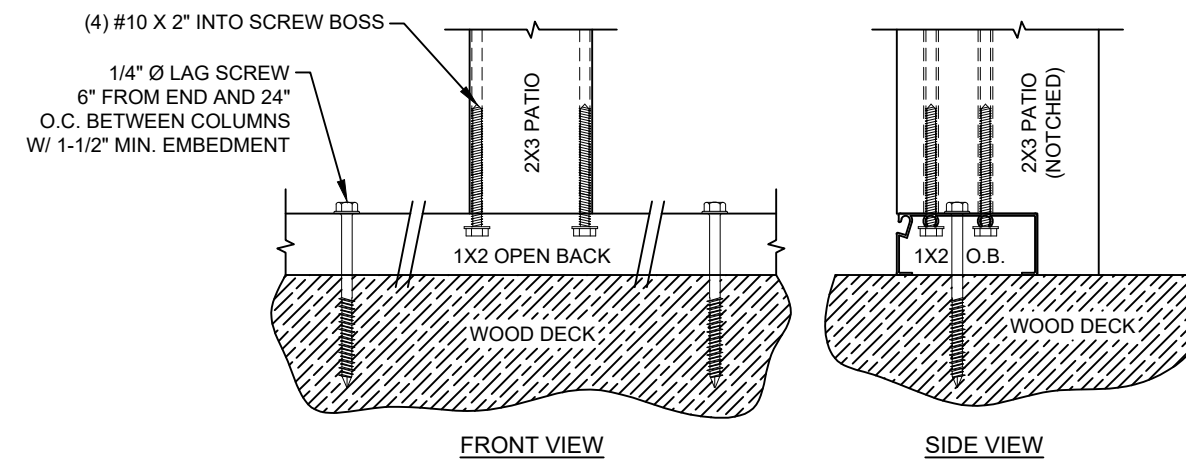


**2x3 UPRIGHT TO WOOD DECK BASE CONNECTION (EXTERNAL)**

---OPTIONS---

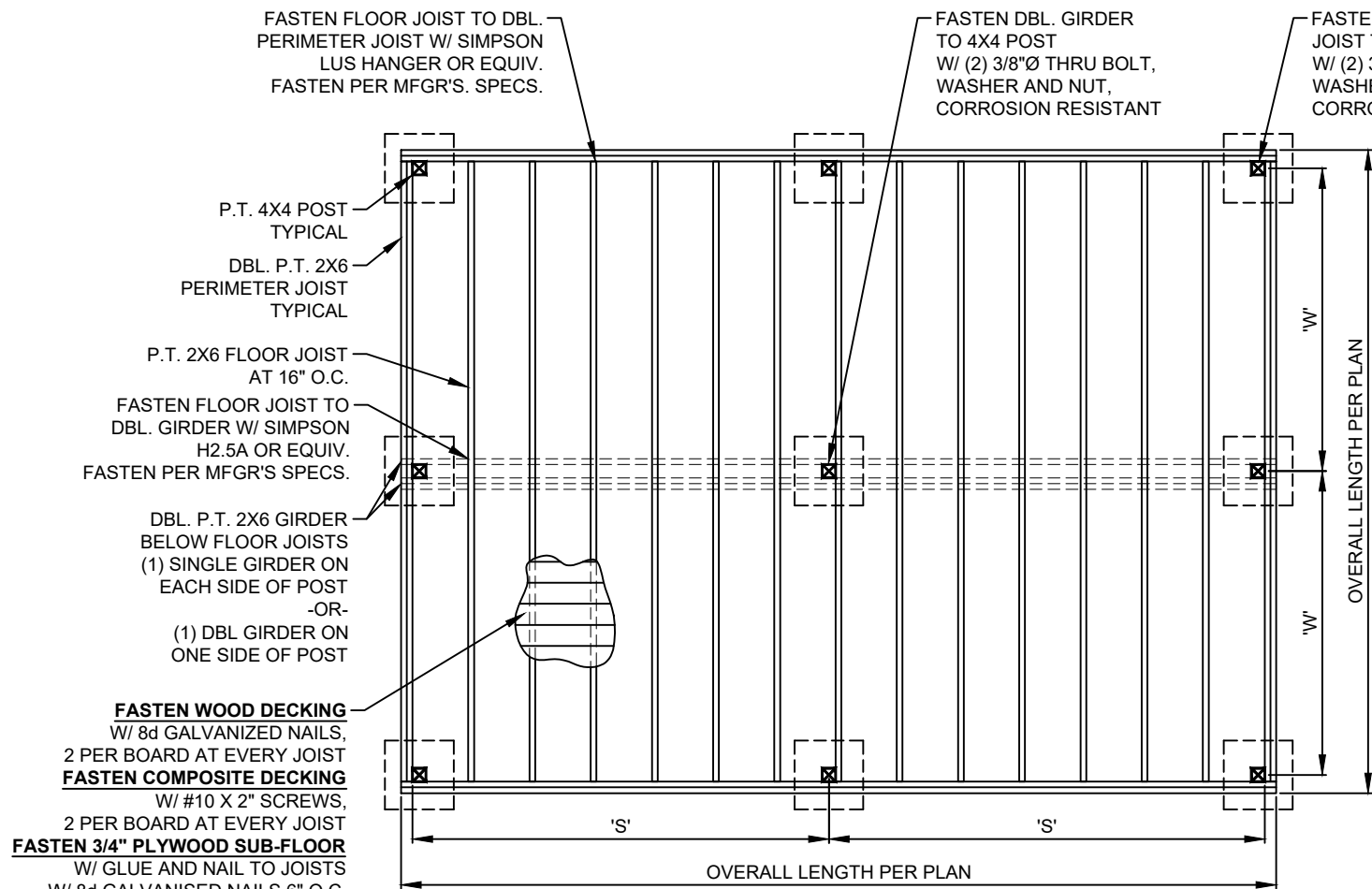


**ALUMINUM 2X3 UPRIGHT W/1X3 O.B. BASE CONNECTION (INTERNAL)**



**ALUMINUM 2X3 UPRIGHT W/1X2 O.B. BASE CONNECTION (INTERNAL)**

**AUGER ANCHORS REQUIRED @ ALL PERIMETER PIERS/POSTS**



**WOOD DECK  
FLOOR JOIST/GIRDER LAYOUT W/ 4X4 POSTS**

FREE STANDING DECK - DO NOT ATTACH JOISTS TO HOME.  
DECK MAY BE CONSTRUCTED WITH GIRDERS RUNNING PARALLEL OR PERPENDICULAR TO HOME

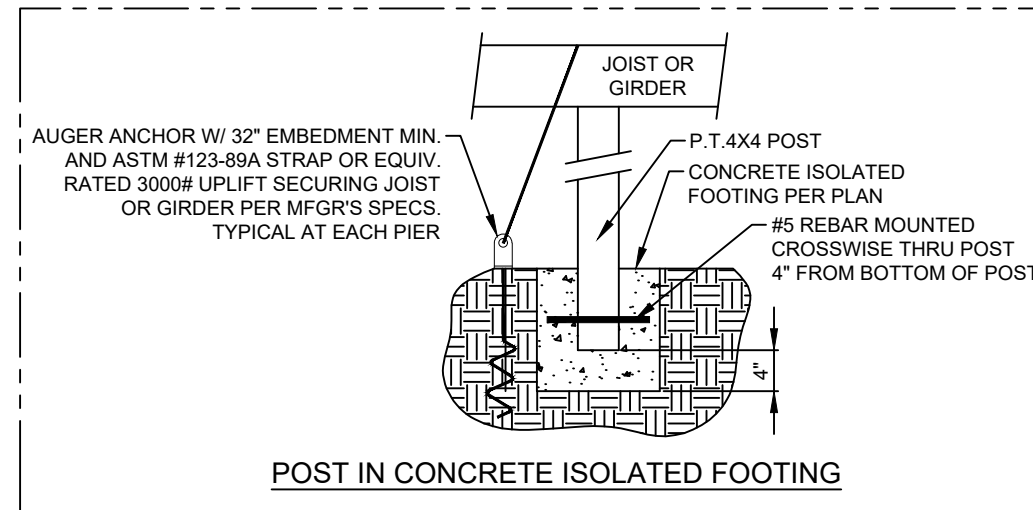
EXISTING WOOD DECK SHALL CONFORM TO ENGINEERING DETAILS PROVIDED FOR SPANS AND CONNECTIONS.

**TABLE SPANS ARE FOR #2 SYP (SOUTHERN YELLOW PINE)**

DECK JOIST SPANS		GIRDER SPAN LENGTHS					
JOIST	SPAN (W)	GIRDER SIZE (S)	DECK JOIST SPAN < OR = TO (FEET)	6'	8'	10'	12'
PT 2x6	9' MAX	(2) PT 2X6	6'-11"	5'-11"	5'-4"	4'-10"	
PT 2x8	12' MAX	(2) PT 2X8	8'-9"	7'-7"	6'-9"	6'-2"	
PT 2x10	14' MAX	(2) PT 2X10	10'-4"	9'-0"	8'-0"	7'-4"	
PT 2x12	16'-6" MAX	(2) PT 2X12	12'-2"	10'-7"	9'-5"	8'-7"	

PRODUCT APPROVAL CODE CHART
STRUCTURAL COMPONENTS
SIMPSON PBS OR ABU44 FL10860
SIMPSON H2.5A FL10456
SIMPSON LUS26 FL10531
SIMPSON LPC4 POST CAP FL10860

NOTE:  
ALL CONNECTORS AND FASTENERS IN CONTACT W/ TREATED WOOD SHALL BE ZINC COATED GALVANIZED STEEL OR SIMPSON 'ZMAX'



I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-16 AND FBC 7TH EDITION RESIDENTIAL AND EXISTING BUILDING

Digitally signed by Joel A Falardeau  
Date: 2022.04.19 16:27:25 -04'00'  
PROFESSIONAL ENGINEER SEAL

**ENGINEER OF RECORD:**

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DATE: 03/29/2022

DRAWN BY: MARK DUNN SR.

REVISION:	DATE:
RO 1	
RO 2	
RO 3	
RO 4	

**JOB NAME & ADDRESS:**

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