General Notes A. CONCRETE & FOUNDATION DESIGN:

ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000

- w 2 PSI MINIMUM.

 ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI
- FIBERMESH (3/4" PER CUBIC YARD MIN.) MEETING
- APPROPRIATE ACI AND ASTM REQUIREMENTS MAY BE USED IN LIEU OF WELDED WIRE MESH

 4. ALL SLABS ON GRADE SHALL BE 4" THICK WITH FIBERMESH.

 5. ALL REINFORCING SHALL CONFORM TO ASTM A615, BE GRADE 60 (60 KSI MIN.) DEFORMED BARS, #3 BARS MAY BE GRADE 40

 6. ALL OVER POUR CONCRETE FILLED SUPPORTED SLABS SHALL BE 3000 PSI MIN., 2" MINIMUM. THICKNESS.

 7. SOIL BEARING PRESSURE SHALL BE A MINIMUM OF 1500 PSF.

 8. THE CONCRETE SHALL CONFORM TO ASTM C94 FOR THE

OPC (PORTLAND CEMENT TYPE 1,- ASTM C 150).
AGGREGATES - #6 STONE , ASTM C 33 SIZE NO. 67 LESS THAN FOLLOWING:

AIR ENTRAINING +/- 1% - ASTM C 260.
WATER REDUCING AGENT - ASTM C 494.

OTHER ADMIXTURES SHALL NOT BE PERMITTED.

9. METAL WELDED WIRE SHALL CONFORM TO ASTM A 185.

10. PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN
CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1,

2, & 3 ALONG WITH HOT WEATHER CONDITIONS CLEAN POTABLE WATER.

RECOMMENDATIONS.

11. 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:

1. CONCRETE MASONRY UNITS (CMU) SHALL BE STANDARD HOLLOW UNITS AND SHALL BE 1900 PSI MINIMUM BASED ON TYPE M OR S MORTAR.

2. ALL MORTAR SHALL BE OF TYPE M OR S.

3. ALL GROUT SHALL BE 2000 PSI MINIMUM AND HAVE MAXIMUM COARSE AGGREGATE SIZE OF 3/8".

4. PROVIDE CLEAN-OUTS FOR REINFORCED CELLS CONTAINING REINFORCEMENT WHEN GROUT POUR EXCEEDS 5'-0" IN

C. ALUMINUM: 1. ALL STRUCTURA

- 0.024" SHALL APPLY.
 STRUCTURAL ALUMINUM DESIGN CONFORMS TO "PART 1-A 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
- SPECIFICATIONS FOR ALUMINUM STRUCTURES ALLOWABLE STRESS DESIGN" OR "BART 1-B SPECIFICATIONS FOR ALUMINUM STRUCTURES BUILDING LOAD AND RESISTANCE FACTOR DESIGN" OF THE 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).
- 4. WHERE ALUMINUM COMES INTO CONTACT WITH STEEL, OR PRESSURE TREATED LUMBER PROVIDE DIELECTRIC
- S 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.

 6. 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.

 7. I"X2"X0.045" NON-STRUCTURAL MEMBERS SHALL BE ATTACHED TO HOST WITH 1/4"0 X 1-3/4" EMBEDMENT & 24" O.C. MASONRY SCREW FOR CONCRETE & EQUIVALENT SIZE WOOD SCREW WHEN IN WOOD & #10X 1/2" EMBEDMENT SMS OR TEK SCREWS IN ALUMINUM MEMBERS TYPICAL.

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, PORTECT OR APPROVED
- EQUAL.
 ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.
- 5. ALL LAG BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 8X
 BOLT DIAMETER INTO STRUCTURAL FRAMING (G=.42 MIN.).
 6. LAG BOLTS AND SCREWS INTO WOOD FRAMING SHALL BE
 PROVIDED WITH PILOT HOLES HAVING A DIAMETER NOT
 DE 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.
 7. 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

 BE APPLIED IN CONDITIONS ACCEPTABLE TO

 MANUFACTURER. FASTENERS SHALL BE A MINIMUM OF SAE

 GRADE #5 OR BETTER ZINC PLATED.

 8. 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.

 9. ALL FASTENERS SHALL COMPLY WITH ASTM A153.

 10. ALL CONNECTORS SHALL COMPLY WITH ASTM A653
- 11. FOR SMS, THE MINIMUM CENTER-TO-CENTER SPACING SHALL BE 3/4" AND MINIMUM CENTER-TO-EDGE SHALL BE 1/2" CLASS G-185
- UNLESS NOTED OTHER WISE.

REFERENCE STANDARDS:

F

ASTM E 119
ASTM E 1300
CURRENT ASCE 7
CURRENT ALUMINUM DESIGN MANUAL-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 7TH EDITION (CHAPTERS 16, 20 & 23).

ABBREVIATIONS:

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

1. TYP -- TYPICAL
2. SIM -- SIMILAR
3. UON -- UNLESS OTHERWISE NOTED
4. CONT -- CONTINUOUS

VIF - VERIFY IN FIELD

9 RESPONSIBILITY:

- 1. ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDINANCES, ETC.
 2. 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. IF THE EXISTING STRUCTURE IS ONE OF THESE, A SEPARATE 4TH WALL SUPPORT SYSTEM MUST 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 IN
- 3. 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

COLUMBIA

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WAMTHA 93

OF INTERPRETATION OF THE PROPERTY OF THE PROPE

Code

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NS EXAMINE ompliance

ENSURE BONDING AGENT IS USED FIRST AND ADHERED WITH MINIMUM 3000 PSI GROUT.

SCREENING MATERIAL SHALL BE 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH ONLY UNLESS NOTED ON DRAWING S-2.

DESIGN DATA: 1. ULTIMATE DESI

ULTIMATE DESIGN WIND SPEED Vult, (3 SECOND GUST): NOMINAL DESIGN WIND SPEED Vasd: RISK CATEGORY:

WIND EXPOSURE:

4 50 12

WIND LOADS: SCREEN ROOF: SCREEN WALLS:

SOLID ROOF (SCREEN WALL):

N/A 23 PSF 20 PSF

FACTOR APPLIED TO SCREEN WIND LOADS FOR 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH:

FACTOR APPLIED TO SCREEN WIND LOADS FOR ALLOWABLE STRESS DESIGN: 0.6 LIVE LOAD:

6. 5

300 lb. VERTICAL DOWNLOAD ON PRIMARY SCREEN ENCLOSURE MEMBERS.

200 Ib. VERTICAL DOWNLOAD ON SCREEN ENCLOSURE PURLINS.

10 PSF VERTICAL DOWNLOAD ON SOLID ROOF.

EXISTING SLAB AND OR FOOTING (MIN. 8"X8" FOOTING WITH 4" SLAB) MEETS THE REQUIREMENTS TO RESIST THE UPLOADS FOR THE PROPOSED STRUCTURE.

SCREEN ROOF TYPE: NIA

SOLID ROOF TYPE: 3"X48"X0.024" ELITE EPS COMPOSITE PANEL ROOF 11b FOAM

DENSITY, FLORIDA PRODUCT APPROVAL, FL 7561-R5. $\frac{1}{3}$ "X48"X0.024" ELITE EPS COMPOSITE PANEL ROOF 11b FOAM

9.

00

ALUMINUM STRUCTURAL MEMBERS INDEX: S-1 GENERAL NOTES

| 3 x 3:3" x 3" x 0.125" | 5:2" x 5" x 0.050" | 2 x 4:2" x 4" x 0.050" | 2:3" x 2" x 0.070" | 2 x 2:2" x 2" x 0.044" | HOLLOW SECTIONS |
|------------------------|--------------------|------------------------|--------------------|------------------------|-----------------|
| | | | S-4 DETAILS | S-3 DETAILS | S-2 DRAWING |

1 x 2:-OPEN BACK SECTIONS ---1" x 3" x 0.045" x 2" x 0.040"

SNAP SECTIONS

2 x 2 SMS:-2 x 3 SMS:-2 x 4 SMS:-3 x 3 SMS:------2" x 3" x 0.072" ----- 2" x 4" x 0.045" 3" x 3" x 0.090" 2" x 2" x 0.045"

2 x 8 SMB:---2 x 9 SMB:---2 x 10 SMB:--2 x 6 SMB:-2 x 7 SMB:-2 x 4 SMB:-2 x 5 SMB:-SELF MATING (SMB) 2" x 10" x 0.092" x 0.374" 2" x 8" x 0.072" x 0.224" 2" x 9" x 0.072" x 0.224" 2" x 7" x 0.057" x 0.120" 2" x 5" x 0.050" x 0.118" 2" x 6" x 0.050" x 0.120" 2" x 4" x 0.044" x 0.100'

2 x 2: *IUBE SECTIONS* x 2" x 0.090"

130 MPH 101 MPH

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oel Falardeau P.E.

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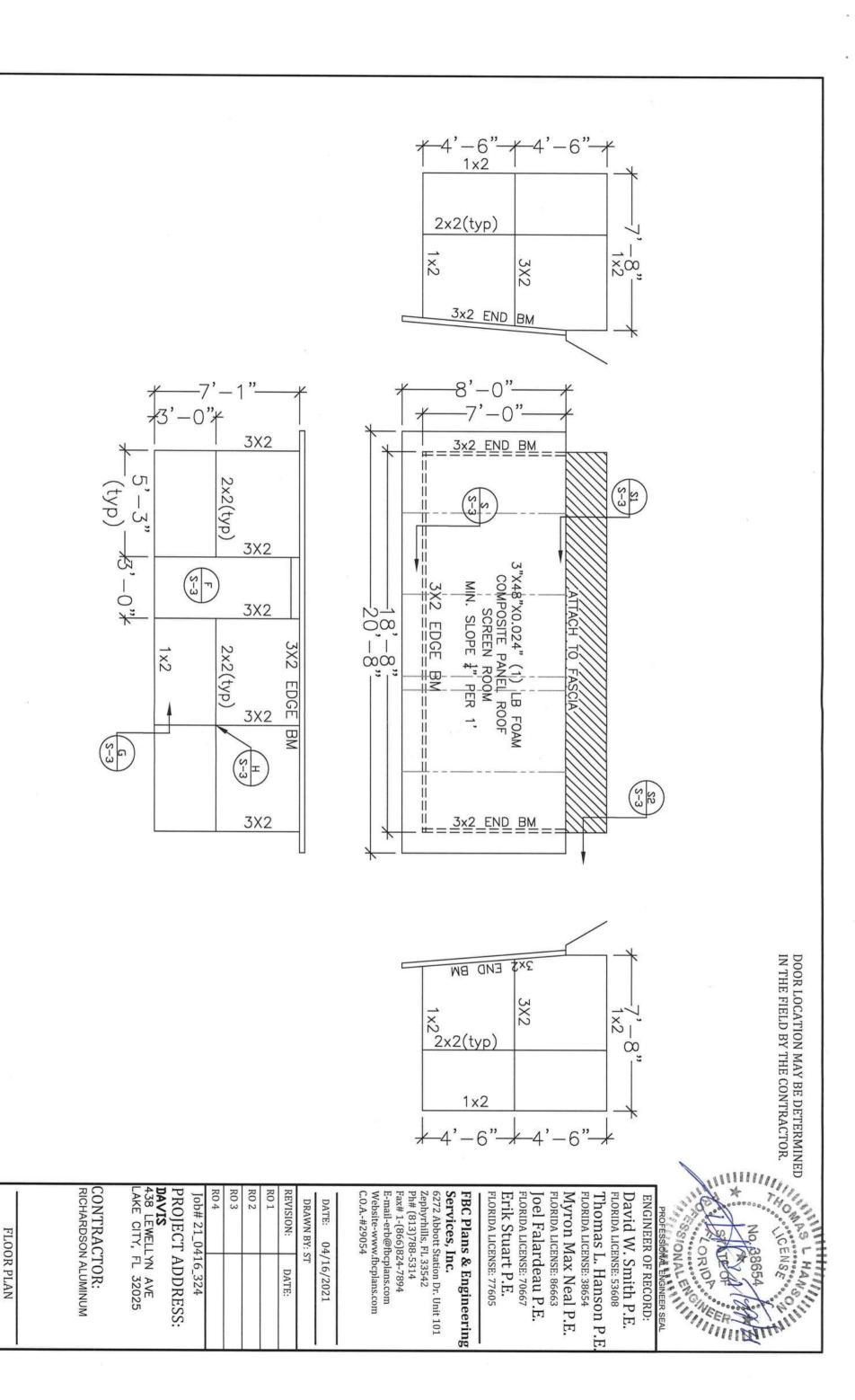
ENGINEER OF RECORD:

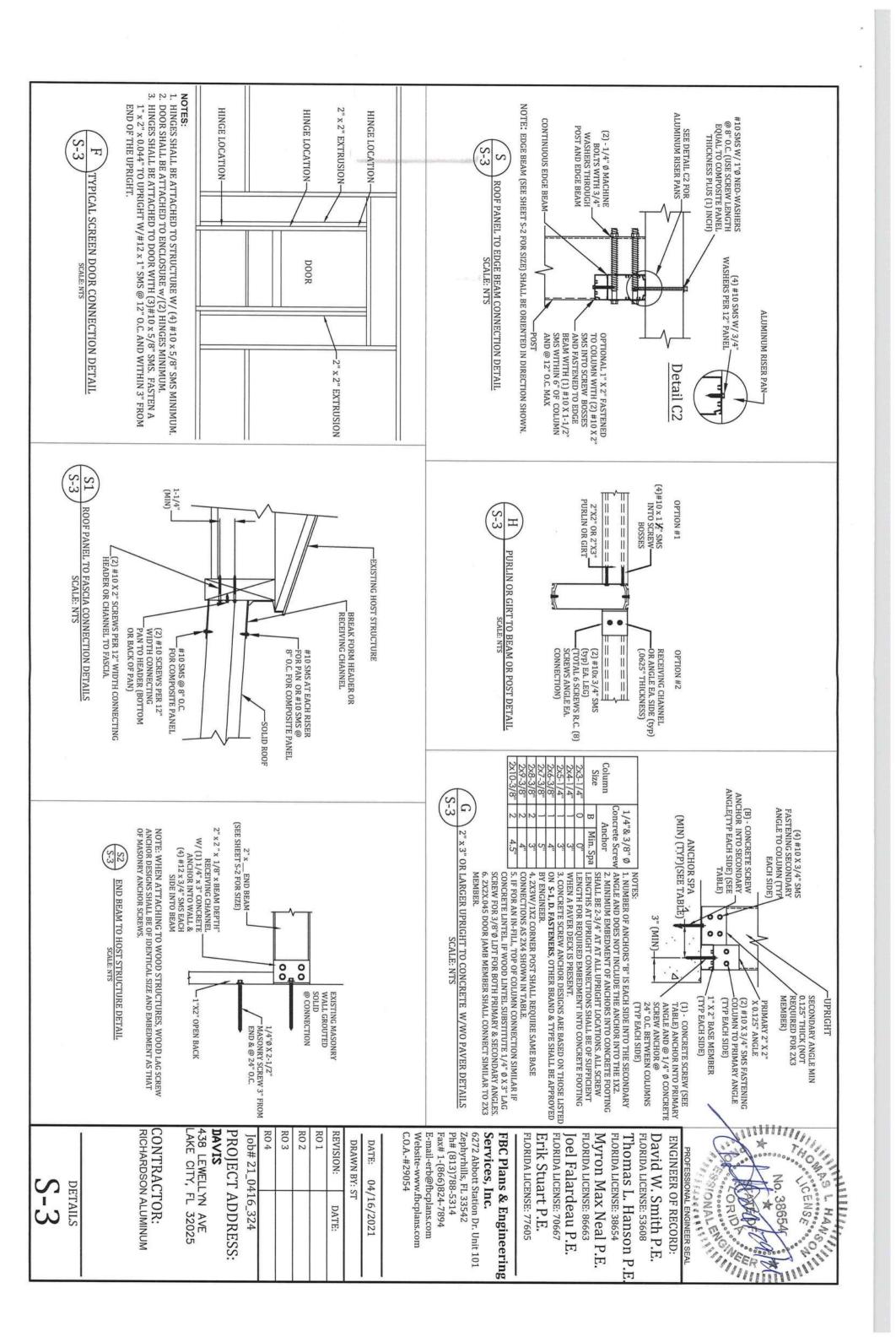
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| C.O.A#29054 | 4 |
|--------------|------------|
| DATE: 0 | 04/16/2021 |
| DRAWN BY: ST | ST |
| REVISION: | DATE: |
| RO 1 | |
| RO 2 | |
| RO 3 | |
| RO 4 | |

DAVIS 438 LEWELLYN AVE LAKE CITY, FL 32025 PROJECT ADDRESS: job# 21_0416_324

CONTRACTOR: RICHARDSON ALUMINUM





NEO-PRINE WASHER @ 9° OC. (USE
SCREW LERGH EQUAL TO COMPOSITE PANEL ROOF
PANEL THICKNESS PLUS T* MIN.)

PANEL THICKNESS PLUS T* MIN.)

COMPOSITE PANEL ROOF

302 PATIO EDGE BEAM PER PLAN

COMPOSITE PANEL ROOF TO BEAM TO POST

CONNECTION DETAIL

PROFESSIONAL ENGINEER SEAL ENGINEER OF RECORD:
David W. Smith P.E.

No. 38654

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DATE: 04/16/2021

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REVISION: DATE:

RO 1

RO 2

RO 3

RO 3

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438 LEWELLYN AVE
LAKE CITY, FL 32025

Job# 21_0416_324

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DETAILS

S_4