## A. CONCRETE & FOUNDATION DESIGN: ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000

- MINIMUM, 3 1/2" NOMINAL THICKNESS ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI PSI MINIMUM
- 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.
  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.

6

- 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".
- CLEAN POTABLE WATER WATER REDUCING AGENT - ASTM C 494. AIR ENTRAINING +/- 1% - ASTM C 260.
- 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
- RECOMMENDATIONS.

  11. IF UTILIZING EXISTING CONCRETE FOR FOUNDATION SPALLING OR OTHER DETERIORATION. CONCRETE SHALL BE A MINIMUM OF 4" IN THICKNESS, VISIBLY FREE OF ANY STRUCTURAL EXCESSIVE CRACKING

#### MASONRY:

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:

- 2. WHERE KICK PLATES ARE USED A MINIMUM THICKNESS OF 0.024" SHALL APPLY. ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF 6005-T5 FOR ALLOY WITH A MINIMUM THICKNESS OF 0.040" FOR SUPPORTING MEMBERS.
- 44 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 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
- SEPARATION

  5. 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.

  1"X2"X0.045" NON-STRUCTURAL MEMBERS SHALL BE ATTACHED TO HOST WITH 1/4"Ø 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 GAL VANIZES 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
- ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE 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
- 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 MANUFACTURER. FASTENERS SHALL BE A MINIMUM OF SAE
- CLASS G-185. OTHERWISE NOTED ON PLANS.
  ALL FASTENERS SHALL COMPLY WITH ASTM A153.
  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" UNLESS NOTED OTHER WISE.

# E. REFERENCE STANDARDS:

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).

#### . 7 ABBREVIATIONS:

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

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

## G. RESPONSIBILITY:

- ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING
- CONDITIONS.
  THESE DRAWINGS REPRESENT THE ACCEPTABILITY OF THE SUNROOM ROOM ADDITION ELEMENTS AS PROVIDED BY THE CODES, LOCAL ORDINANCES, ETC.
  CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS,
  NOTIFYING ENGINEER OF ANY DISCREPANCIES BETWEEN DRAWINGS, FABRICATED ITEMS, OR ACTUAL FIELD
- 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

3 x 3 SMS:-

3" x 3" x 0.090"

ENGINEERING PRACTICES. LICENSED P.E. IN ACCORDANCE WITH STANDARD

## H. MISCELLANEOUS:

1. 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

2 x 2:

TUBE SECTIONS

-2" x 2" x 0.090"

- 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 ITS ENTIRETY
- DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY
- IF PAVERS ARE UNDER ALUMINUM MEMBERS THEY SHALL HAVE EPOXY ADHESIVE TO CONCRETE OR IF USING GROUT

## DESIGN DATA: ULTIMATE DESIGN WIND SPEED Vult, (3 SECOND GUST): NOMINAL DESIGN WIND SPEED Vasd: 130 MPH 101 MPH

4 50 12 WIND LOADS: RISK CATEGORY: WIND EXPOSURE: SCREEN ROOF: SCREEN WALLS: SOLID ROOF (SCREEN WALL): 11 PSF 38 PSF N/A

LIVE LOAD: FACTOR APPLIED TO SCREEN WIND LOADS FOR 18X14X0.013
OR EQUIVALENT DENSITY SCREEN MESH:
FACTOR APPLIED TO SCREEN WIND LOADS FOR ALLOWABLE STRESS DESIGN:

300 lb. VERTICAL DOWNLOAD ON PRIMARY SCREEN ENCLOSURE MEMBERS.
200 lb. VERTICAL DOWNLOAD ON SCREEN ENCLOSURE PURLINS.
10 PSF VERTICAL DOWNLOAD ON SOLID ROOF.
EXISTING 4" SLAB MEETS THE REQUIREMENTS TO RESIST THE UPLOADS FOR THE

SCREEN ROOF TYPE : HIPPED GABLE PROPOSED STRUCTURE

.00

7.6

5

9. SOLID ROOF TYPE: N/A

# ALUMINUM STRUCTURAL MEMBERS

OPEN BACK SECTIONS	ODEN DACK
3" x 3" x 0.125"	3 x 3:
2" x 5" x 0.050"	2 x 5:
2" x 4" x 0.050"	2 x 4:
2" x 3" x 0.050"	2 x 3:
2" x 2" x 0.044"	2 x 2:

2 x 3 SMS:2" x 3	2 x 2 SMS:2" x 2	SNAP SECTIONS	
αį	2		
X O	X C		
0	0		2000
		SMS:2" x 2" x 0.045" SMS:2" x 3" x 0.072"	SNAP SECTI

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ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED

CONTRACTOR

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.

#### Services, Inc. FLORIDA LICENSE: 77605 Erik Stuart P.E.

FLORIDA LICENSE: 70667

oel Falardeau P.E.

FLORIDA LICENSE: 86663 Myron Max Neal P.E. FLORIDA LICENSE: 38654 FLORIDA LICENSE: 53608

David W. Smith P.E.

ENGINEER OF RECORD:

PESSIONAL ENG!

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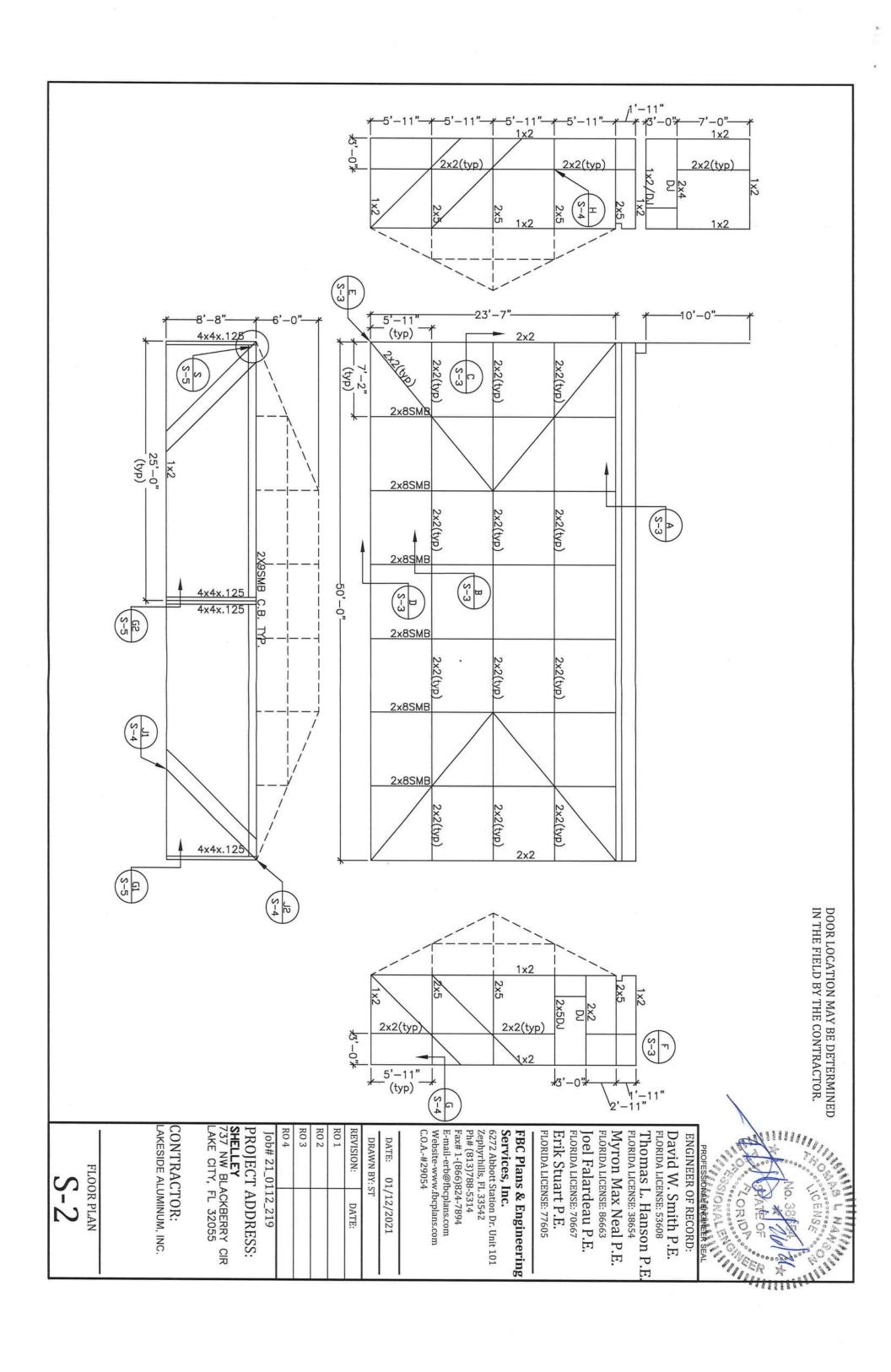
Thomas L. Hanson P.E

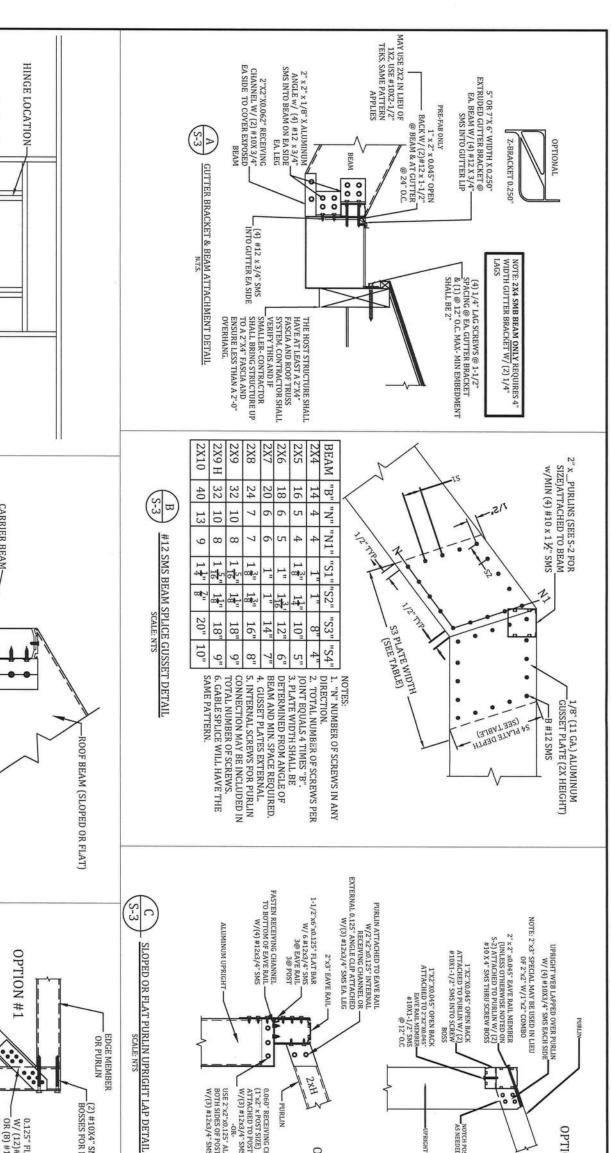
# **FBC Plans & Engineering**

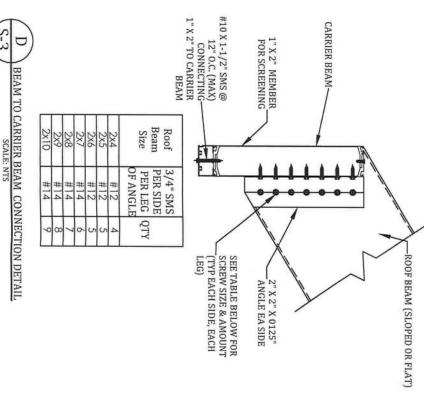
	RO 3	RO 2	RO 1	REVISION: DATE:	DRAWN BY: ST	DATE: 01/12/2021	Zephyrhills, FL 33542 Ph# (813)788-5314 Ph# (813)788-5314 Fax# 1-(866)824-7894 E-mail-erb@fbcplans.com Website-www.fbcplans.com C.O.A#29054	
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**SHELLEY** 737 NW BLACKBERRY CIR LAKE CITY, FL 32055 PROJECT ADDRESS: RO 4 Job# 21\_0112\_219

CONTRACTOR: AKESIDE ALUMINUM, INC.







OPTION #1: 2" x 2" x PURLIN
DEPTH RECEIVING CHANNEL W/
(4) #10X3/4" EA. LEG ATTACHING—
PURLIN TO BEAM OR EAVE
MEMBER

SHELLEY

737 NW BLACKBERRY CIR LAKE CITY, FL 32055

PROJECT ADDRESS:

ob# 21\_0112\_219

RO 4

.060 REC. CHANNEL MIN.

OPTION #2

HINGES SHALL BE ATTACHED TO STRUCTURE W/ (4) #10 x 5/8" SMS MINIMUM.
 DOOR SHALL BE ATTACHED TO ENCLOSURE w/(2) HINGES MINIMUM.
 HINGES SHALL BE ATTACHED TO DOOR WITH (3)#10 x 5/8" SMS. FASTEN A 1" x 2" x 0.044" TO UPRIGHT W/#12 x 1" SMS @ 12" O.C. AND WITHIN 3" FROM

END OF THE UPRIGHT.

TYPICAL SCREEN DOOR CONNECTION DETAIL
SCALE: NTS

S-3

NOTES:

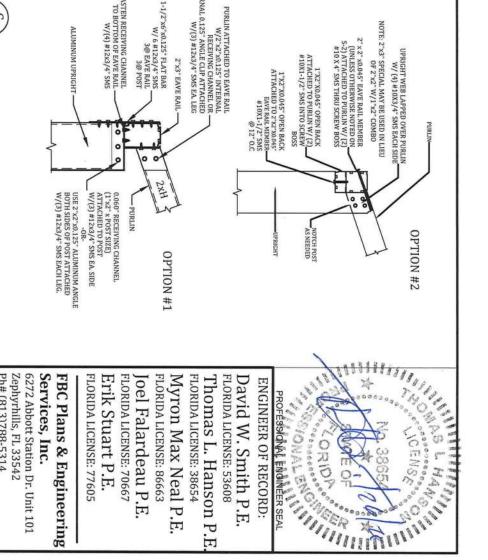
HINGE LOCATION-

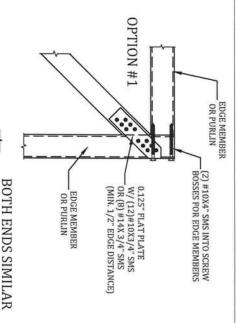
2" x 2" EXTRUSION

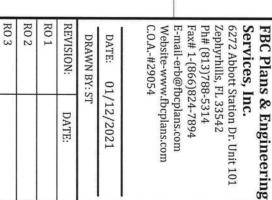
HINGE LOCATION-

DOOR

-2" x 2" EXTRUSION







FLORIDA LICENSE: 77605

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Myron Max Neal P.E. FLORIDA LICENSE: 38654

Thomas L. Hanson P.E

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

ENGINEER OF RECORD:

FLORIDA LICENSE: 86663

Joel Falardeau P.E.

PROFESSIONAL ENGINEER SEAL

CONTRACTOR: AKESIDE ALUMINUM, INC.

DETAILS

ROOF BRACING CONNECTION I

ETAIL

