

General Notes

A. CONCRETE & FOUNDATION DESIGN:

1. ALL CONCRETE AND FOUNDATIONS ATTACHED TO THE HOST STRUCTURE SHALL HAVE A PRE-INSPECTION
2. ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000 PSI MINIMUM.
3. ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI MINIMUM, 3 1/2" NOMINAL THICKNESS.
4. 3000 PSI FIBERMESH (3/4" PER CUBIC YARD MIN.) MEETING APPROPRIATE ACI AND ASTM REQUIREMENTS MAY BE USED IN LIEU OF WELDED WIRE MESH
5. ALL SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK WITH FIBERMESH.
6. ALL REINFORCING SHALL CONFORM TO ASTM A615, BE GRADE 60 (60 KSI MIN.) DEFORMED BARS, #3 BARS MAY BE GRADE 40
7. ALL OVER POUR CONCRETE FILLED SUPPORTED SLABS SHALL BE 3000 PSI MIN., 2" MINIMUM THICKNESS.
8. SOIL BEARING PRESSURE SHALL BE A MINIMUM OF 1500 PSF.
9. THE CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING:
- 9.1 OPC (PORTLAND CEMENT TYPE 1- ASTM C 150).
- 9.2 AGGREGATES - #6 STONE ,ASTM C 33 SIZE NO. 67 LESS THAN 3/4".
- 9.3 AIR ENTRAINING +/- 1%-ASTM C 260
- 9.4 WATER REDUCING AGENT - ASTM C 494
- 9.5 CLEAN POTABLE WATER.
- 9.6 OTHER ADMIXTURES SHALL NOT BE PERMITTED.
10. METAL WELDED WIRE SHALL CONFORM TO ASTM A 185.
11. PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, 2, & 3 ALONG WITH HOT WEATHER CONDITIONS
12. 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 2000 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 COURSE AGGREGATE SIZE OF 3/8".
4. PROVIDE CLEAN-OUTS FOR REINFORCED CELLS CONTAINING REINFORCEMENT WHEN GROUT POUR EXCEEDS 5'-0" IN HEIGHT.
- C. ALUMINUM:
1. ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF 6061-T5 FOR ALLOY WITH A MINIMUM THICKNESS OF 0.040" FOR SUPPORTING MEMBERS.
2. WHERE KICK PLATES ARE USED A MINIMUM THICKNESS OF 0.024" SHALL APPLY.
3. 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, 8TH 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. VINYL AND ACRYLIC PANELS MAY NOT BE USED IN FLOOD ZONE A.
7. 1"x2"x0.045" NON-STRUCTURAL MEMBERS SHALL BE ATTACHED TO HOST WITH 1/4"x0 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:
1. ALL LAG BOLTS SHALL CONFORM TO STAINLESS STEEL TYPE 300 18-8, WITH STANDARD FLAT WASHER UNLESS MANUFACTURER GALVANIZES BOLTS SPECIFICS FOR USE WITH ACQ PRESURE TREATED WOOD.
2. HEX BOLTS HAS TO BE ASTM A 325, PLATED WITH STANDARD FLAT WASHERS AND NUTS.
3. ALL CONCRETE SCREWS SHALL BE, SIMPSON, HILLT, RAWL, TAPCON, REDHEAD, DYNABOLT, PORTCT OR APPROVED EQ.
4. 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 GREATER THAN 70 PERCENT OF THE TREAD 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 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 SPECIFICS FOR USE WITH ACQ PRESURE TREATED WOOD, OR OTHERWISE NOTED ON PLANS.
9. ALL FASTENERS SHALL COMPLY WITH ASTM A153.
10. ALL CONNECTORS SHALL COMPLY WITH ASTM A653 CLASS G-185.
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 119
- ASTM E 1300
- ASCE 7
- 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
- THE FLORIDA BUILDING CODE 8TH EDITION (CHAPTERS 16, 20 & 23)
- 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.
1. TYP -- TYPICAL
2. SIM -- SIMILAR
3. UNO -- UNLESS OTHERWISE NOTED
4. CONT -- CONTINUOUS
5. VIF -- VERIFY IN FIELD
- G. 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.
3. THESE DRAWINGS REPRESENT THE ACCEPTABILITY OF THE "SUNROOM" ROOM ADDITION ELEMENTS AS PROVIDED BY THE CONTRACTOR.
4. ALL DETAILS ON THESE DRAWINGS ARE ENGINEERED BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND MANUFACTURER.
5. ANY DETAILS NOT SHOWN ARE TO BE ENGINEERED BY A LICENSED P.E. IN ACCORDANCE WITH STANDAR ENGINEERING PRACTICES.
6. WHEN ATTACHING TO FASGIA, THE HOST STRUCTURE SHALL HAVE AT LEAST A 2"x4" FASGIA AND ROOF TRUSS SYSTEM.
- CONTRACTOR SHALL VERIFY THIS AND IF SMALLER, CONTRACTOR SHALL BRING STRUCTURE UP TO A 2"x4" FASGIA AND ENSURE LESS THAN A 2'-0" OVERHANG.
7. FRC PLANS & ENGINEERING SERVICES INC. DOES NOT WARRANT, EITHER EXPRESSLY OR IMPLIED, THE QUALITY OF THE CONSTRUCTION, AND IS NOT RESPONSIBLE FOR THE INTERPRETATION OF DESIGNS AND END USE BY THE CLIENT / CONTRACTOR.
- H. MISCELLANEOUS:
1. 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.
2. IF ENCLOSURE CONTAINS A SWIMMING POOL OR SPA, THE ENCLOSURE SHALL COMPLY WITH RESIDENTIAL SWIMMING BARRIER REQUIREMENTS OF THE FBC 8TH EDITION RESIDENTIAL R 4501.17.1 IN ITS ENTIRETY.
3. DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR.
3. DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
4. IF PLYERS ARE UNDER ALUMINUM MEMBERS THEY SHALL HAVE EPOXY ADHESIVE TO CONCRETE OR IF USING GROUT, ENSURE BONDING AGENT IS USED FIRST AND ADHERED WITH MINIMUM 3000 PSI GROUT.
5. SCREENING MATERIAL SHALL BE 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH ONLY UNLESS NOTED OTHERWISE.
6. ALL STRUCTURAL POST SHALL BE ANCHORED TO AN EXISTING/ PROPOSED CONCRETE FOUNDATION FOR UPLIFT PURPOSES.
7. EMERGENCY ESCAPE & RESCUE OPENING PER FBC R310.1 SHALL BE VERIFIED BY CONTRACTOR & BUILDING OFFICIAL
8. ENCLOSURE ADDITIONS TO MANUFACTURED HOMES SHALL NOT CHANGE THE EXIST 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.
9. TORNADO CODE NOT APPLICABLE TO RISK CATEGORY 1 AND RISK CATEGORY 2 STRUCTURES
- 9.1 ASCE/SEI STANDARD 7-22, FIGS. 32.5-1, 32.5-2, AND G.2-1 THROUGH -4.

CARPORT AND CONCRETE

DESIGN DATA:

1. ULTIMATE DESIGN WIND SPEED Vult. (3 SECOND GUST): 130 MPH
- NOMINAL DESIGN WIND SPEED Vast: 101 MPH
2. RISK CATEGORY: 1
3. WIND EXPOSURE: B
4. INTERNAL COEFFICIENT: CARPORT (OPEN STRUCTURE): 0.0
5. WIND LOADS: FACTOR APPLIED TO WIND LOADS FOR ALLOWABLE STRESS DESIGN: 0.6
- SOLID ROOF (MWFRS): 24 PSF
- COMPONENT & CLADDING PRESSURES: ROOF ZONE 1: 7.4/-16.7 PSF, ZONE 2: 7.4/-38.3 PSF, ZONE 3: 7.4/-52.2 PSF
6. SOLID ROOF TYPE: 3" X 48" X 0.024" X 2LB COMPOSITE PANELS, FL 7561-R7 OR EQUIV.
7. FOUNDATIONS PER "A" OF GENERAL NOTES AND SITE SPECIFIC DETAIL

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 4:-----	2" x 4" x 0.125"
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"
6 x 6:-----	6" x 6" x 0.125"
6 x 6:-----	6" x 6" x 0.250"

OPEN BACK SECTIONS

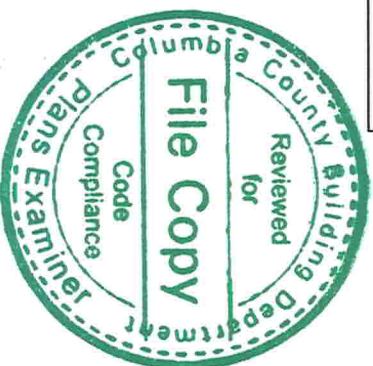
1 x 2:-----	1" x 2" x 0.040"
1 x 3:-----	1" x 3" x 0.045"

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"



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.

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DATE: 06/07/2024

DRAWN BY: DENNIS W. DUINN

REVISION: DATE:

RO 1

RO 2

RO 3

RO 4

JOB # 24_0603_016

JOB NAME & ADDRESS:

WILLIAMS
133 SW MILDRED CT.
LAKE CITY, FL. 32024-1066

CONTRACTOR:

BENCHMARK BUIDERS, LLC
7585 216TH ST., O'BRIEN FL. 32071

GENERAL NOTES

S-1

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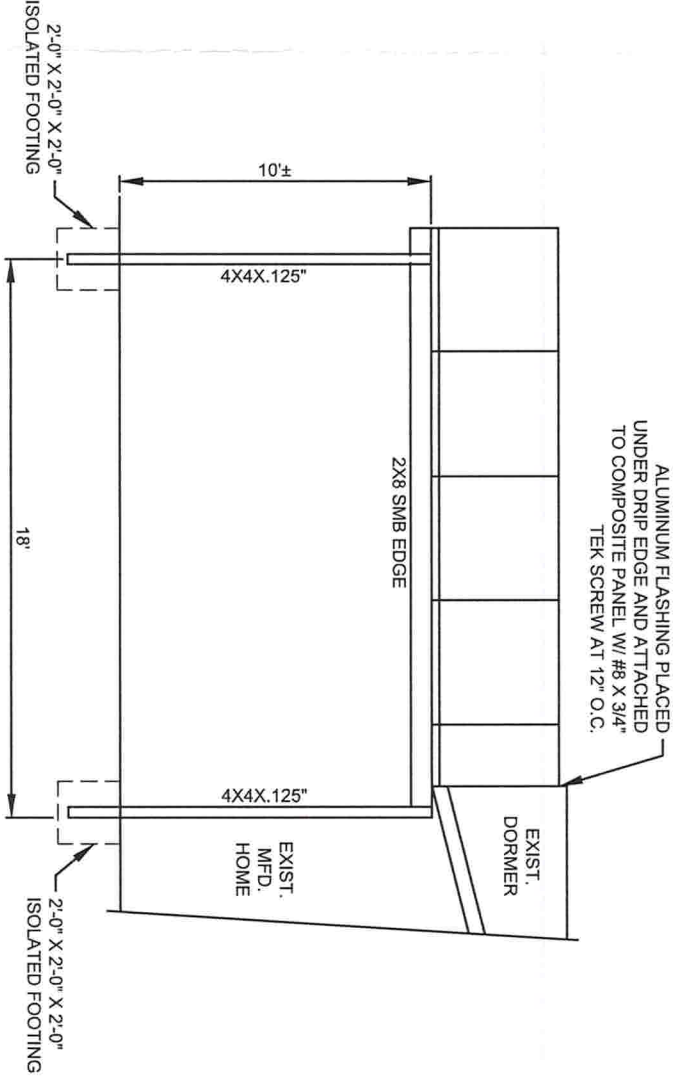
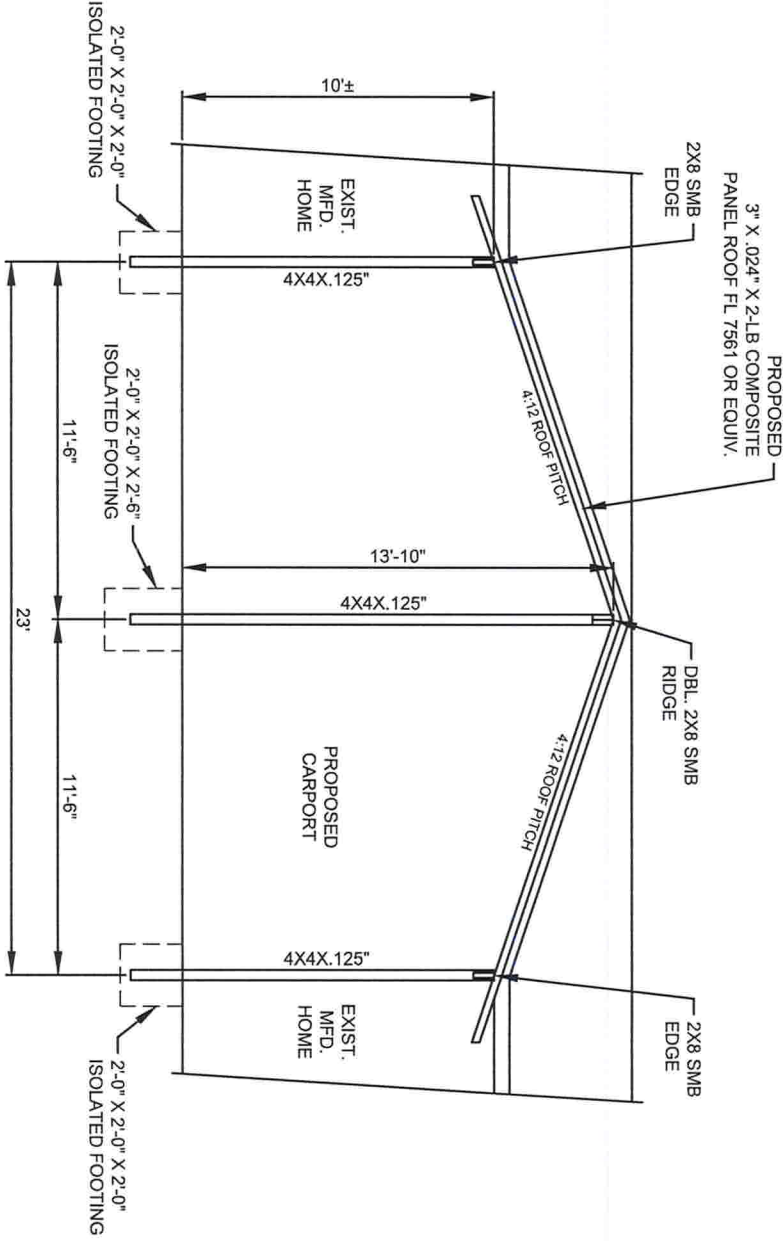
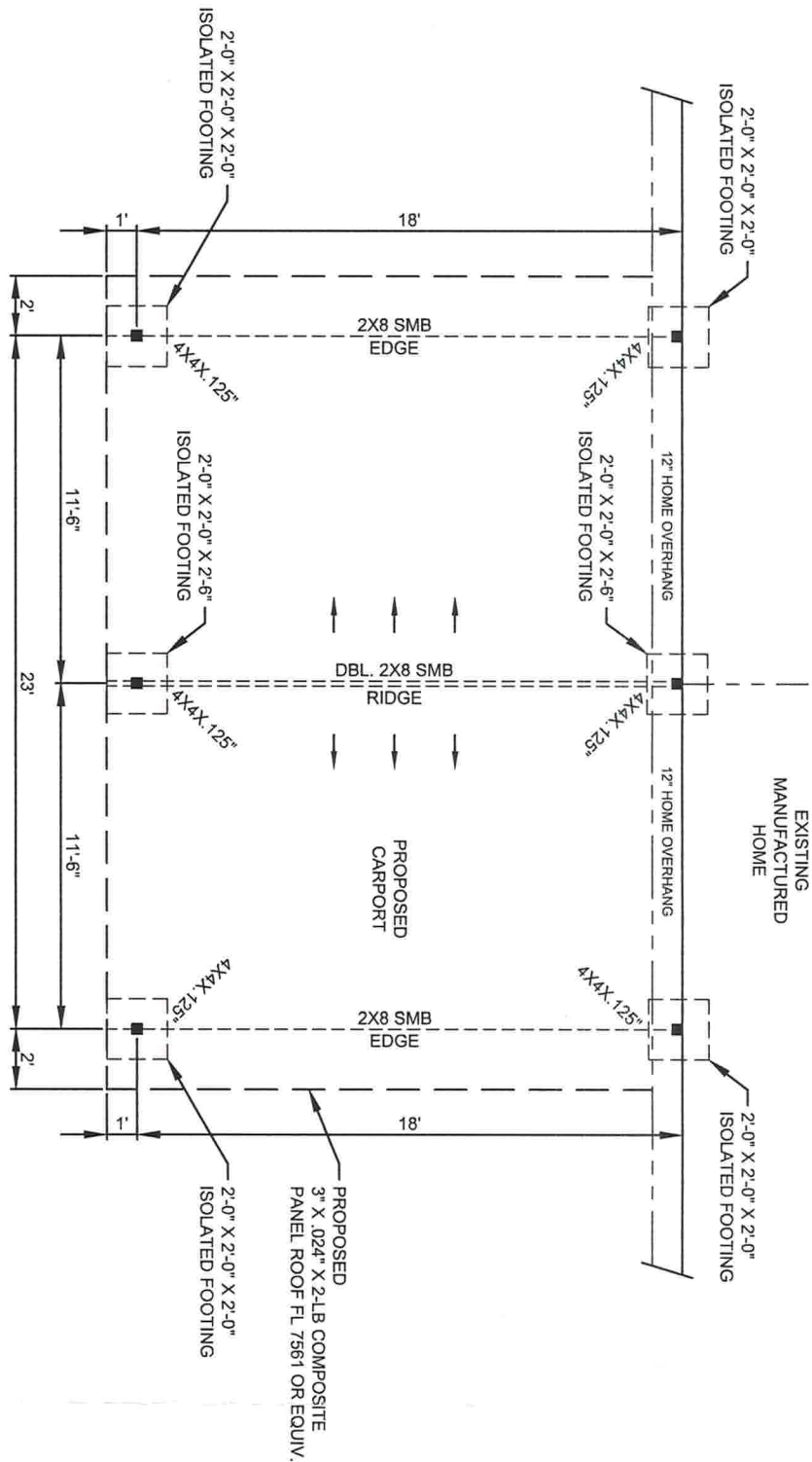
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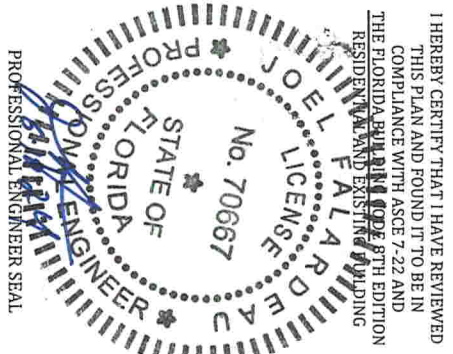
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DATE: 06/07/2024	
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REVISION:	DATE:
RO 1	
RO 2	
RO 3	
RO 4	

JOB # 24_0603_016
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133 SW MILDRED CT.
LAKE CITY, FL. 32024-1066
CONTRACTOR:
BENCHMARK BUILDERS, LLC
7585 216TH ST., O'BRIEN, FL. 32071

PLANS AND ELEVATIONS





PROFESSIONAL ENGINEER SEAL

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-22 AND THE FLORIDA BUILDING CODE 8TH EDITION RESIDENTIAL AND EXISTING BUILDING

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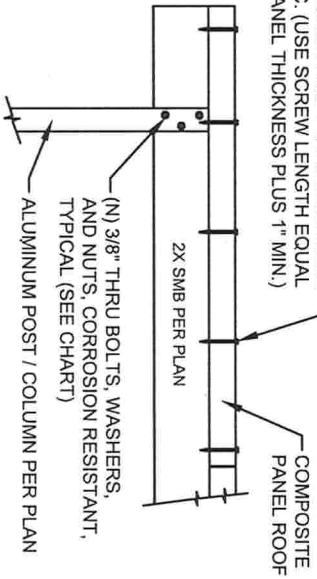
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DATE: 06/07/2024
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REVISION: DATE:
RO 1
RO 2
RO 3
RO 4
JOB # 24_0603_016
JOB NAME & ADDRESS:
WILLIAMS
133 SW MILDRED CT.
LAKE CITY, FL. 32024-1066
CONTRACTOR:
BENCHMARK BUILDERS, LLC
7585 216TH ST., OBRIEN FL. 32071
ALUMINUM CARPORT DETAILS
S-3

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	3,500 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

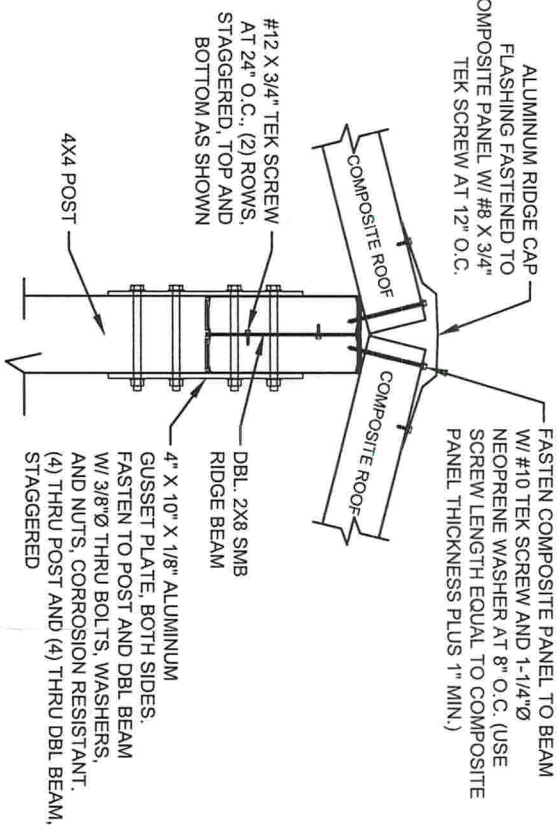
NOTE: OTHER BOLT SIZES AND QUANTITIES MAY BE USED PER SITE SPECIFIC PLANS AND CALCULATED UPLIFT CAPACITY REQUIRED

FASTEN COMPOSITE PANEL TO ALL BEAMS
W/ # 10 TEK SCREW AND 1-1/4"Ø NEOPRENE
WASHER AT 8" O.C. (USE SCREW LENGTH EQUAL
TO COMPOSITE PANEL THICKNESS PLUS 1" MIN.)



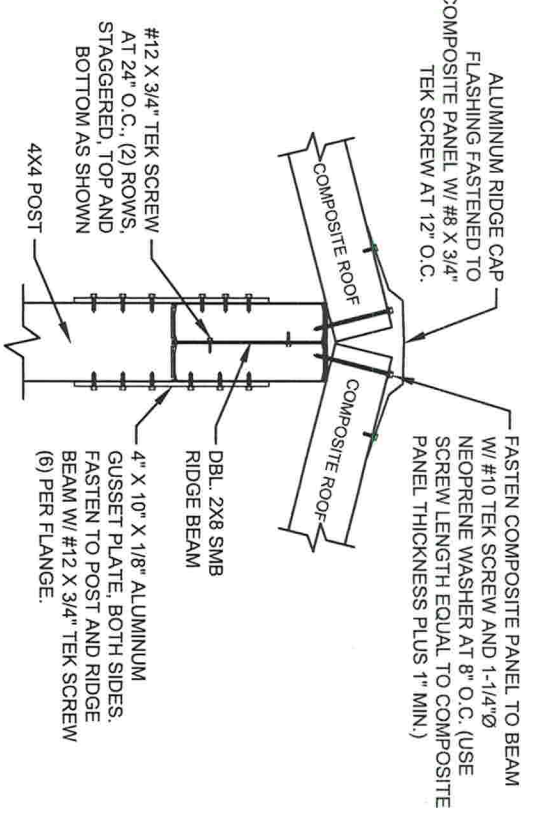
COMPOSITE ROOF, POST AND BEAM CONNECTION

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COMPOSITE PANEL ROOF, DBL RIDGE BEAM
AND 4X4 POST CONNECTIONS AT RIDGE

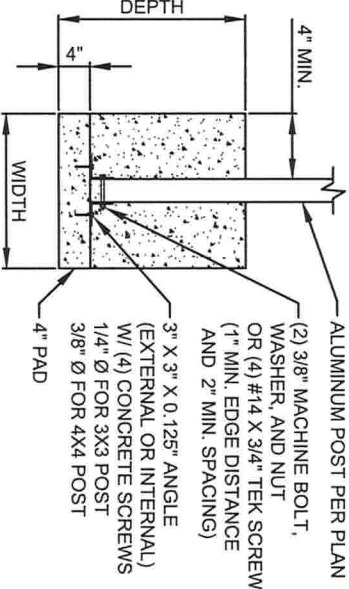
OPTION #2



COMPOSITE PANEL ROOF, DBL RIDGE BEAM
AND 4X4 POST CONNECTIONS AT RIDGE

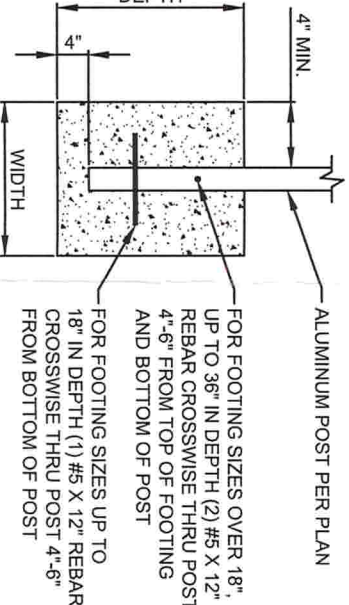
OPTION #1

- NOTES FOR ALL FOUNDATION TYPES:
1. THE FOUNDATIONS SHOWN ARE BASED ON A MINIMUM SOIL BEARING PRESSURE OF 1500 PSF.
 2. THE SLAB / FOUNDATION MUST BE CLEARED OF ALL DEBRIS, AND COMPACTED PRIOR TO POURING OF ANY CONCRETE.
 3. CONCRETE SHALL MEET THE SPECIFICATIONS IN THE S-1 GENERAL NOTES PAGE.



ALUMINUM POST
IN ISOLATED FOOTING

OPTION #2



ALUMINUM POST
IN ISOLATED FOOTING

OPTION #1

SMB	(N) SCREWS
2X4/2X5	8
2X6/2X7	10
2X8/2X9	12

