

WESLEY CALDWELL
469 DELAWARE WAY
FORT WHITE, FL 32038
30' X 60' X 16'

DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2018, ASCE7-16, OSHA, AISC 360, AISI 100, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS. NO FIELD WELDING IS REQUIRED.
5. ALL FIELD CONNECTIONS SHALL BE #12 (1/4"X1") (ESR-2196) OR APPROVED EQUAL.
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 GALV. STEEL (FY = 50 KSI, FU = 65 KSI) PER RELEVANT ASTM.
8. STRUCTURAL TUBE TS 2 1/2" X 2 1/2" - 14GA. IS EQUIVALENT TO TS 2 1/4" X 2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
9. 12GA IS DEFINED AS 0.109" THICKNESS. 14GA IS DEFINED AS 0.083" THICKNESS. 26GA IS DEFINED AS 0.019" THICKNESS. 29GA IS DEFINED AS 0.015" THICKNESS.
10. GYPSUM BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT CONSIDERED OR ACCOUNTED FOR ON THE DESIGN CRITERIA OF THIS STRUCTURE, U.N.O.

REVISIONS

MARK	COMMENTS	DATE
-	ISSUED FOR PERMIT & CONST.	MAR 10 2022

DESIGN CRITERIA

PREVAILING CODE:	FBC 2020 - 7th Edition (IBC 2018)
USE GROUP:	U (CARPORTS, BARNs)
CONSTRUCTION TYPE:	V - B
RISK CATEGORY:	I
BUILDING FOOTAGE:	1800 SQ.FT
1. COLLATERAL DEAD LOAD (D)	D = 2.0 PSF
2. ROOF LIVE LOAD (Lr)	Lr = 20 PSF
3. SNOW LOAD (S)	
GROUND SNOW LOAD	Pg = 0 PSF
IMPORTANCE FACTOR	Is = 0.80
THERMAL FACTOR	Ct = 1.2
EXPOSURE FACTOR	Ce = 1.0
ROOF SLOPE FACTOR	Cs = 1.0
FLAT ROOF SNOW LOAD	Pf = 0 PSF
SLOPED ROOF SNOW LOAD	Ps = 0 PSF
4. WIND LOAD (W)	
DESIGN WIND SPEED	Vult = 110 MPH
EXPOSURE	C
5. SEISMIC LOAD (E)	
Ss / S1	0.078/0.048
SDs / SD1	0.084/0.076
DESIGN CATEGORY	B
SITE CLASS	D (DEFAULT)
IMPORTANCE FACTOR	Ie = 1.00
ASD LOAD COMBINATIONS:	
1. D + (Lr OR S)	
2. D + (0.6W OR ±0.7E)	
3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)	
4. 0.6D + (0.6W OR ±0.7E)	

SCOPE OF PLANS:

1. TO PROVIDE STRUCTURAL DESIGN FOR THE PRE-FAB METAL BUILDING PER THE SPECIFIED DESIGN LOADS, AND APPLICABLE BUILDING CODES. ANY DISCREPANCIES IN DESIGN LOADS SHALL BE BROUGHT TO THE ATTN. OF THE ENGINEER OF RECORD.
2. DOES NOT PROVIDE ANY ARCHITECTURAL, SITE, ZONING, HVAC, ELEC, MECH, OR EXIST. FOUNDATIONS DESIGN REQUIREMENTS. THESE ITEMS MUST BE ADDRESSED BY RESPONSIBLE PROFESSIONALS IN CHARGE.

DRAWING INDEX

- 1 COVER SHEET
- 2 ELEVATIONS
- 3A FOUNDATION PLAN
- 3B FOUNDATION DETAILS
- 4 FLOOR PLAN & DETAILS
- 5 FRAME SECTION & DETAILS
- 6A SIDE WALL FRAMING
- 6B SIDE WALL DETAILS
- 7A END WALL FRAMING
- 7B..... END WALL DETAILS

SPECIAL INSPECTIONS

NO SPECIAL INSPECTIONS ARE REQUIRED FOR THIS STRUCTURE, AS IT MEETS THE EXCEPTIONS OF SECTION 1704 PER FBC 2020 - 7th Edition (IBC 2018), UNLESS EXPLICITLY REQUIRED BY THE BUILDING OFFICIAL.

SAADY
AMIN

Digitally signed by SAADY AMIN
Reason: I have reviewed this document
Location: Toledo, OH 43623
Date: 2022.03.14 16:53:16-04'00'

2.05410

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OWNER: WESLEY CALDWELL
LOCATION: 469 DELAWARE WAY
FORT WHITE, FL 32038
SHEET TITLE: COVER SHEET

DRAWING NO.: MBD690AE396
PROJECT NO.: 039-22-0595
DRAWN BY: MJ
CHECKED BY:
DATE: 3/10/2022
SHEET NO.: 1 OF 7

PREPARED FOR:

A&A SOFTWARE DEVELOPMENT

MB DESIGN

BMBI

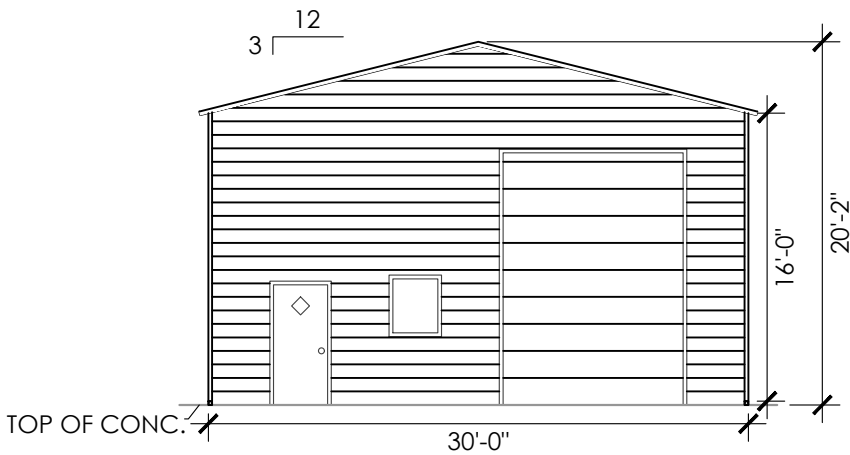
BEST METAL BUILDINGS, LLC.

SEAL:

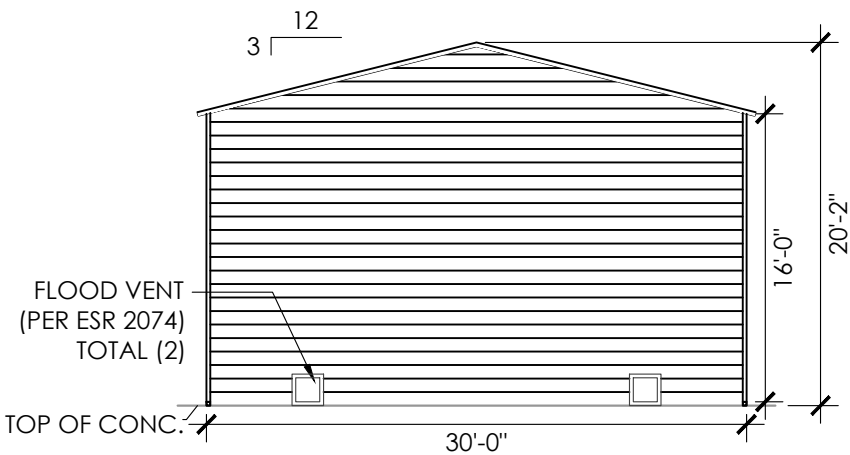
SAADY AMIN
LICENSE
No. 86959
STATE OF FLORIDA
PROFESSIONAL ENGINEER

EXPIRES: 2/28/2023

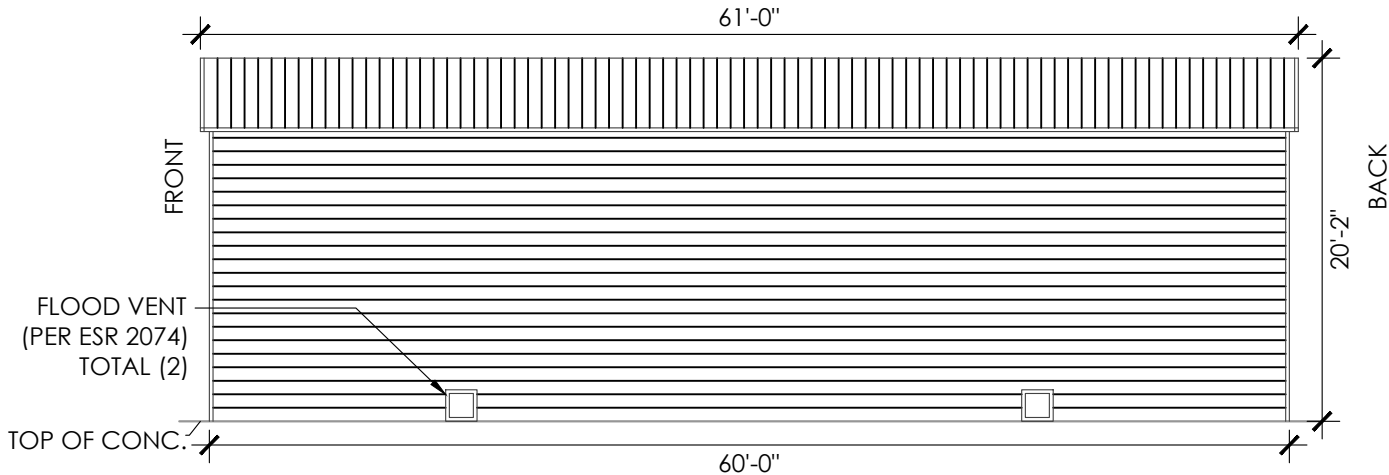
DATE SIGNED: MAR 10 2022



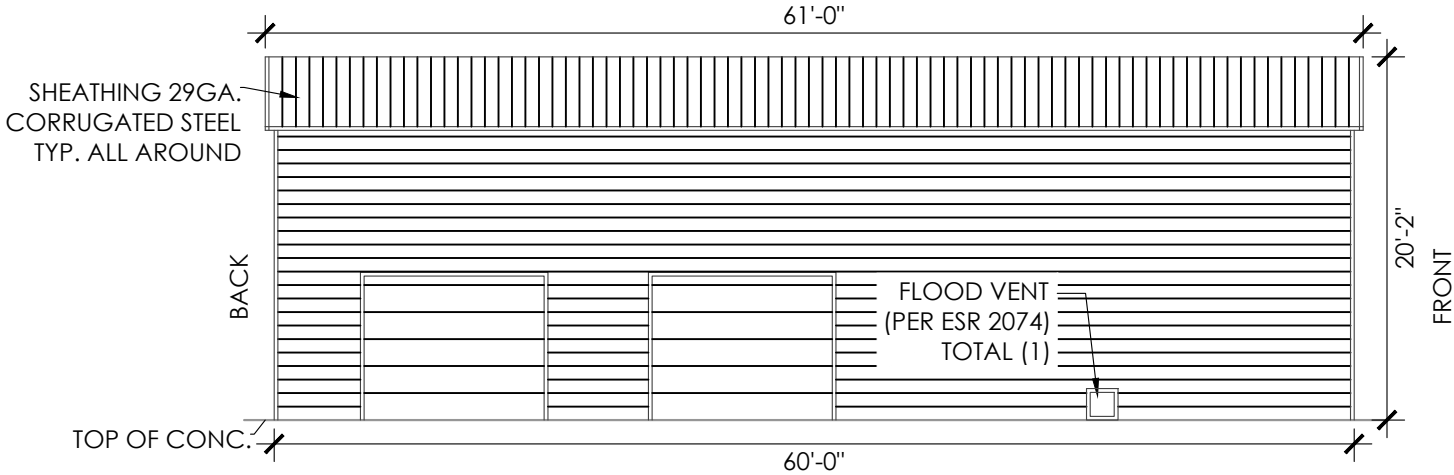
FRONT END WALL ELEVATION
SCALE: 3/32" : 1'



BACK END WALL ELEVATION
SCALE: 3/32" : 1'

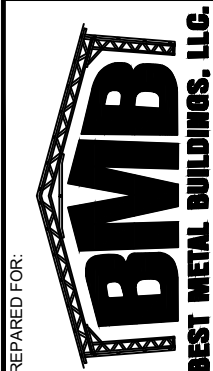


RIGHT SIDE WALL ELEVATION
SCALE: 3/32" : 1'



LEFT SIDE WALL ELEVATION
SCALE: 3/32" : 1'

 PREPARED FOR:	OWNER: WESLEY CALDWELL		LOCATION: 469 DELAWARE WAY FORT WHITE, FL 32038	
	SHEET TITLE: ELEVATIONS			
	DRAWING NO.:	MBD690AE396	PROJECT NO.:	039-22-0595
	DRAWN BY:	MJ	CHECKED BY:	
	DATE:	3/10/2022	SHEET NO.:	2 OF 7

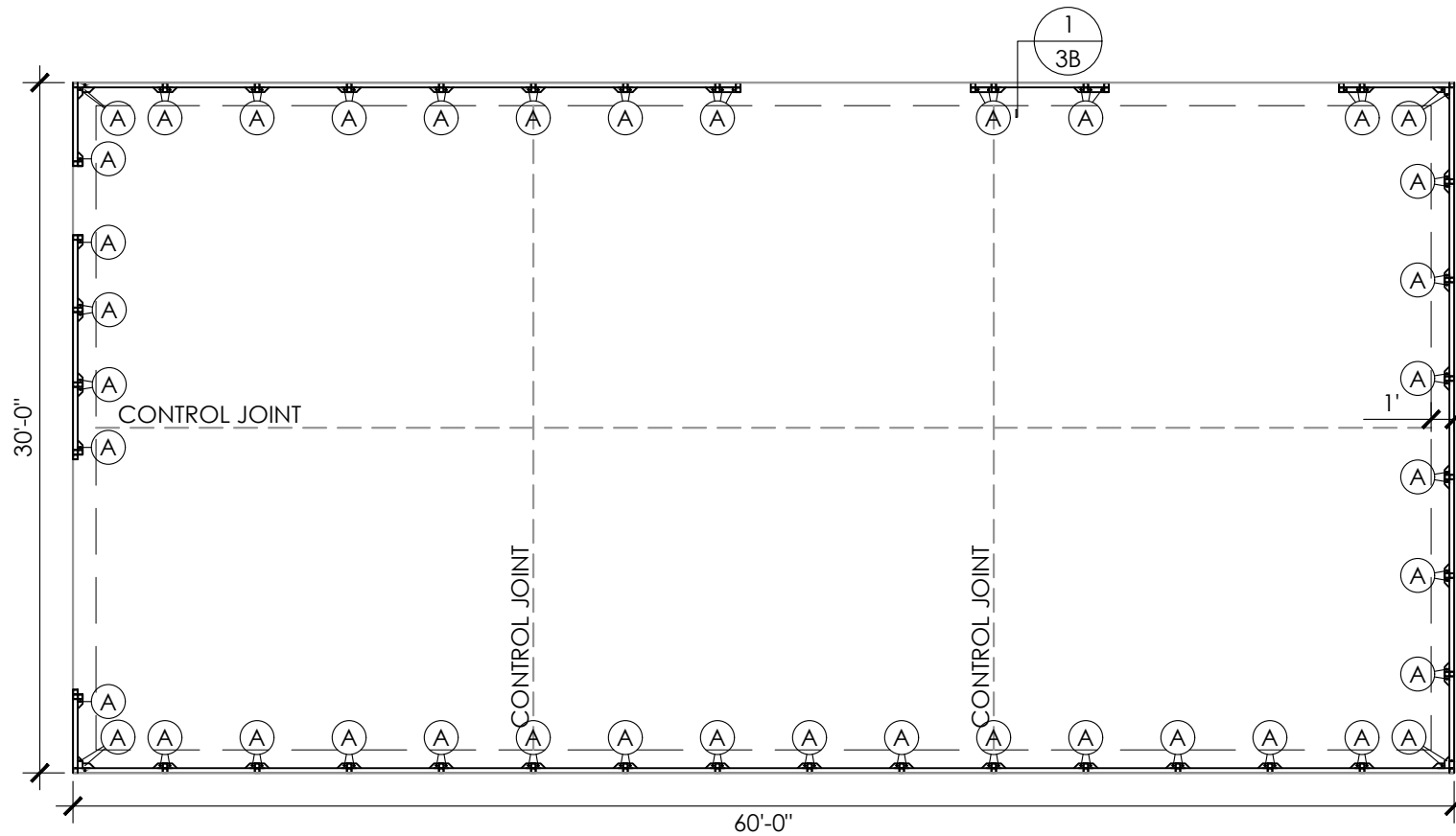


SEAL:

SAADY AMIN
LICENSE
No. 86959
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

EXPIRES: 2/28/2023

DATE SIGNED: MAR 10 2022



FOUNDATION PLAN

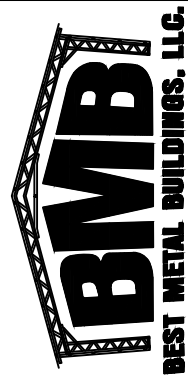
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MEMBER PROPERTIES	
BASE RAIL	2 1/2" SQ. X 14GA TUBE
COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
CONCRETE SLAB	
ANCHOR 'A'	1/2Ø" X 7" LG. POWER-STUD+ SD1 EXPANSION ANCHOR (PER ESR 2818)

FOUNDATION NOTES:

- MIN. SLAB SIZE SHALL BE 30' X 60' TO ALLOW A MIN. OF 4" ANCHOR-TO-CONCRETE EDGE DISTANCE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- CONC ANCHORS SHALL BE LOCATED AS SHOWN ON THE FOUNDATION PLAN WITH A MINIMUM OF (1) ANCHOR PER POST.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN THE LOCAL FROST LINE DEPTH.
- DEPTH OF FOOTINGS SHALL EXTEND INTO UNDISTURBED SOIL OR COMPACTED ENGINEERING FILL.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONC STRENGTH TO BE A MIN OF 3000 PSI @ 28 DAYS. SPECIAL INSPECTION IS NOT REQUIRED AS ALL CONC FOUNDATION DESIGN IS BASED ON A MAX COMPRESSIVE STRENGTH OF 2500 PSI @ 28 DAYS.
- CONC SLAB TO SLOPE A MIN OF 1/8" FOR EVERY 12" TOWARDS LARGE OPENING(S) TO ALLOW DRAINAGE, IF INTENDED USE IS A GARAGE.

PREPARED FOR:



OWNER: WESLEY CALDWELL

LOCATION: 469 DELAWARE WAY
FORT WHITE, FL 32038

SHEET TITLE: FOUNDATION PLAN:
CONCRETE SLAB

DRAWING NO.: MBD690AE396

PROJECT NO.: 039-22-0595

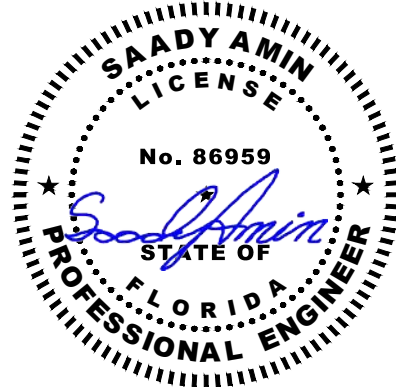
DRAWN BY: MJ

CHECKED BY:

DATE: 3/10/2022

SHEET NO.: 3A OF 7

SEAL:



EXPIRES: 2/28/2023

DATE SIGNED: MAR 10 2022

MEMBER PROPERTIES	
BASE RAIL	2 1/2" SQ. X 14GA TUBE
COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
CONCRETE SLAB	
ANCHOR 'A'	1/2Ø" X 7" LG. POWER-STUD+ SD1 EXPANSION ANCHOR (PER ESR 2818)

ANCHORAGE NOTES:

1. ANCHOR INSTALLATION REQUIREMENTS:
- MIN. ANCHOR EDGE DISTANCE:

4.00"
- MIN. ANCHOR HOLE DEPTH:

4.50"
- MIN. CONCRETE EMBEDMENT DEPTH:

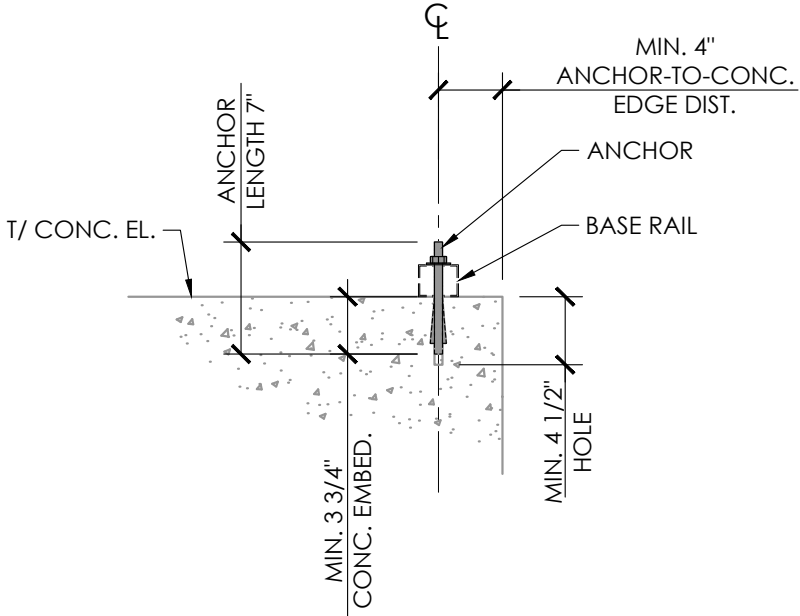
3.754"
- MIN. EFFECTIVE EMBEDMENT:

3.25"
- MIN. SPACING BETWEEN (2) ANCHORS:

5.00"
2. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.
3. ALL ANCHORS TO BE A307 EQUIVALENT OR BETTER. ANCHORS TO BE INSTALLED PER MANUFACTURER'S REQ.

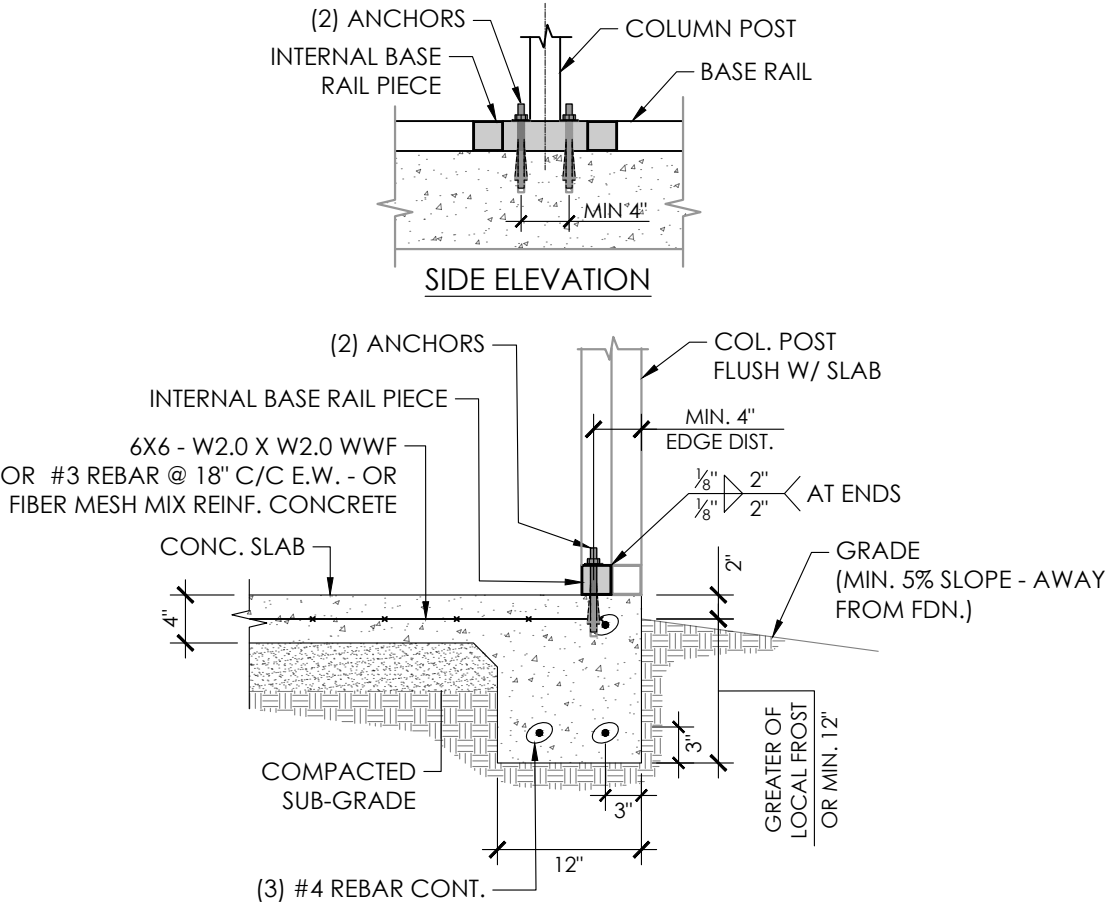
REINFORCEMENT NOTES:

1. REINFORCING STEEL: DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, WITH A MINIMUM YIELD OF 60 KSI FOR ALL BARS UNLESS OTHERWISE INDICATED ON DRAWINGS.
2. WELDED WIRE FABRIC: ASTM A185 USING BRIGHT STEEL WIRE MEETING THE REQUIREMENTS OF ASTM A82. GAUGES AND DIMENSIONS AS NOTED ON THE DRAWINGS. PROVIDE IN FLAT SHEETS OR ROLLS.
3. FIBER MESH AND/OR WELDED WIRE FABRIC ARE SHRINKAGE AND TEMPERATURE CRACK CONTROL REINFORCEMENTS. DOSAGE OF FIBER MESH SHOULD BE DETERMINED BY CONCRETE SUPPLIER AND AS PER MANUFACTURER RECOMMENDATIONS.



ANCHORAGE DETAIL

SCALE: 1" : 1'

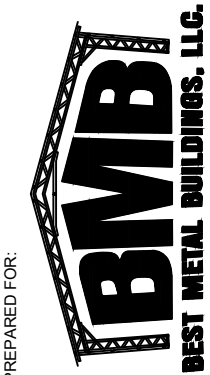


FOUNDATION DETAIL

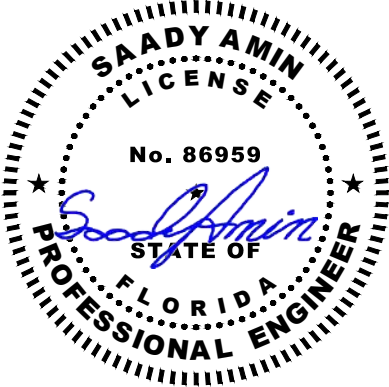
SCALE: 3/4" : 1'

1

OWNER: WESLEY CALDWELL	LOCATION: 469 DELAWARE WAY FORT WHITE, FL 32038		
SHEET TITLE: FOUNDATION DETAILS: CONCRETE SLAB			
DRAWING NO.:	MBD690AE396	PROJECT NO.:	039-22-0595
DRAWN BY:	MJ	CHECKED BY:	
DATE:	3/10/2022	SHEET NO.:	3B OF 7



SEAL:



EXPIRES: 2/28/2023

DATE SIGNED: MAR 10 2022

FLOOD VENT CALCULATIONS:

BUILDING FOOTAGE: 1800 SQ.FT

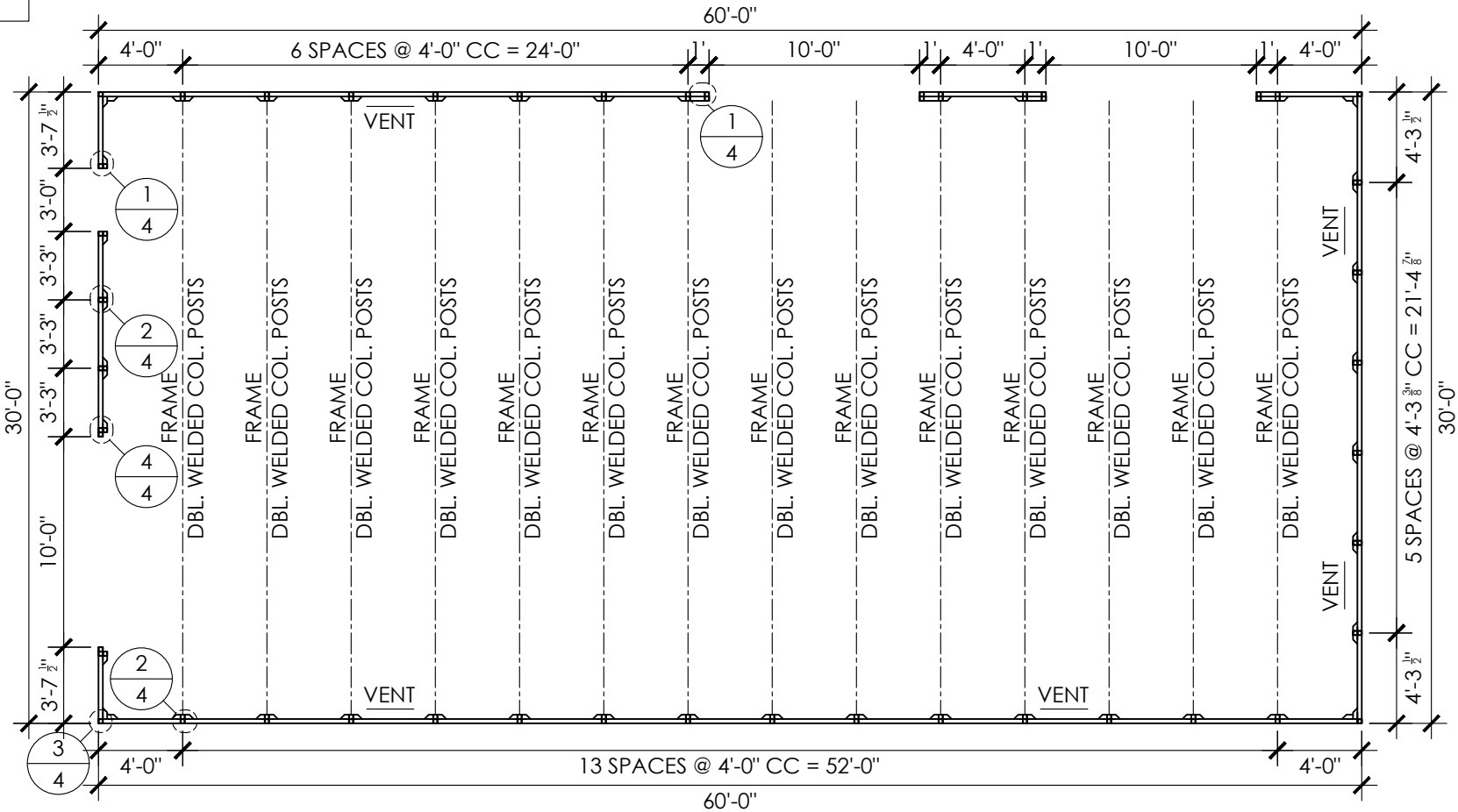
FLOOD VENT TYPE: ENGINEERED FLOOD VENT
(PER ESR 2074)

MODEL : 16" X 16"

COVERAGE AREA: 400 SQ.FT

NO. OF VENTS NEEDED: BUILDING FOOTAGE / COVERAGE
= 1800 SQ.FT / 400 SQ.FT
= 4.5 VENTS

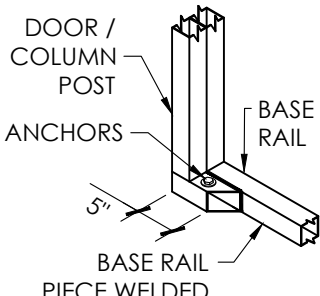
NO OF VENTS PROVIDED: = 5



FLOOR PLAN

SCALE: 1/8" : 1'

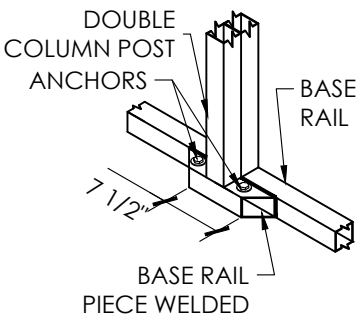
NOTE: SEE SHEET 3 FOR ANCHOR TYPE & MEMBER PROPERTIES



ANCHOR DETAIL

SCALE: 1/2" : 1'

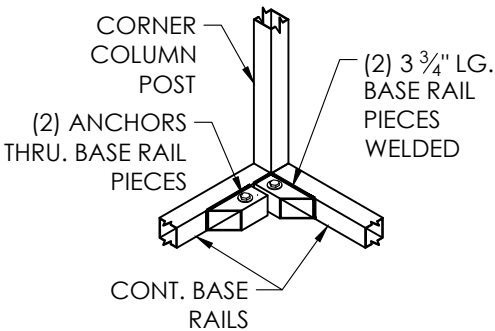
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ANCHOR DETAIL

SCALE: 1/2" : 1'

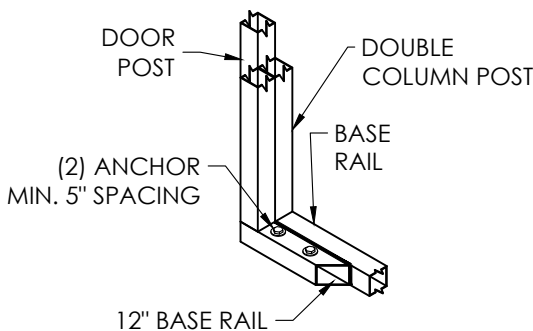
2



ANCHOR DETAIL

SCALE: 1/2" : 1'

3



ANCHOR DETAIL

SCALE: 1/2" : 1'

4

PREPARED FOR:

OWNER: WESLEY CALDWELL

LOCATION:

469 DELAWARE WAY
FORT WHITE, FL 32038

SHEET TITLE:

FLOOR PLAN & ANCHORS

DRAWING NO.:

MBD690AE396

PROJECT NO.:

039-22-0595

DRAWN BY:

MJ

CHECKED BY:

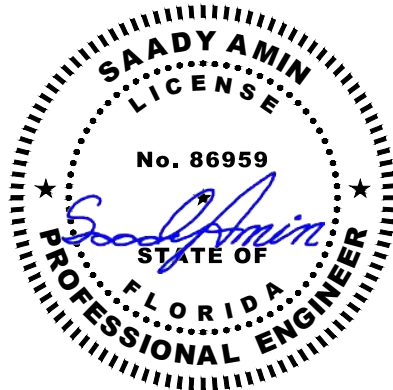
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3/10/2022

SHEET NO.:

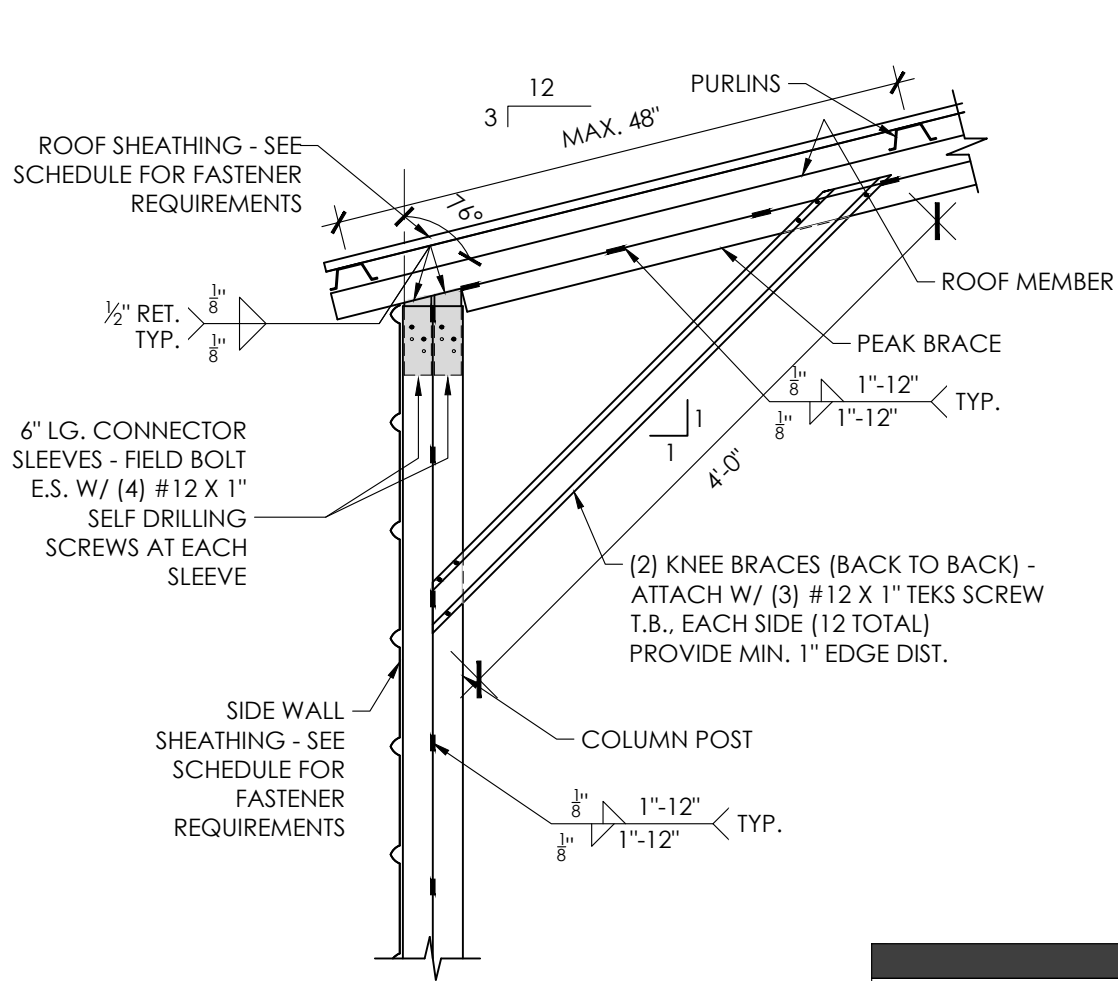
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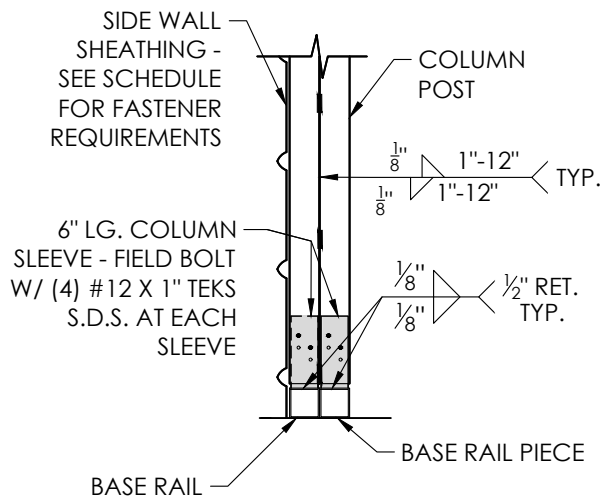


EXPIRES: 2/28/2023

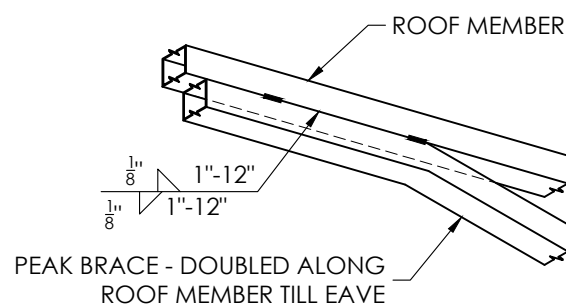
DATE SIGNED: MAR 10 2022



FRAME DETAIL 1
SCALE: 3/4" : 1'



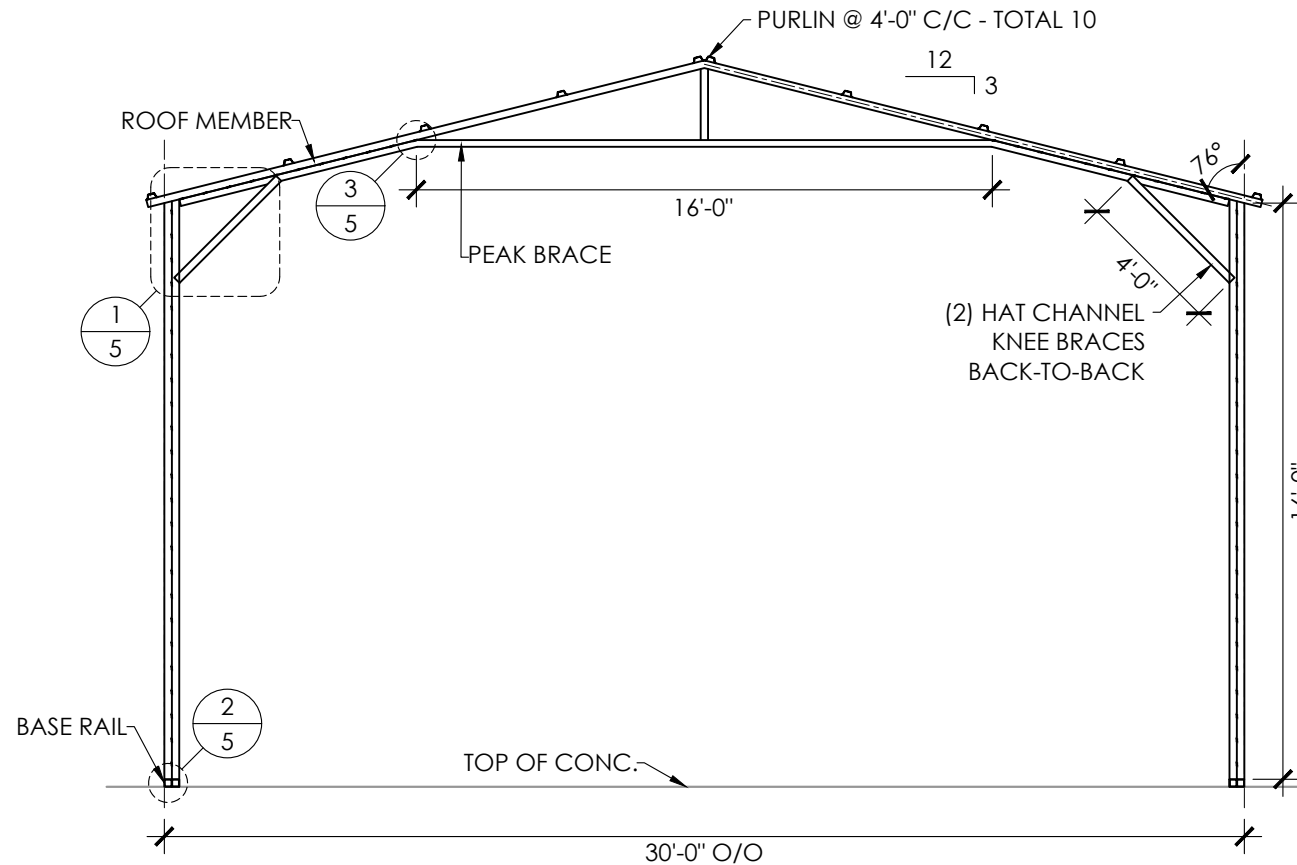
BASE DETAIL 2
SCALE: 3/4" : 1'



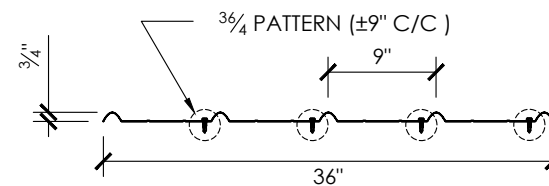
PEAK BRACE DETAIL 3
SCALE: 3/4" : 1'

MEMBER PROPERTIES				
COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED			
ROOF MEMBER	2 1/2" SQ. X 14GA TUBE			
BASE RAIL	2 1/2" SQ. X 14GA TUBE			
PEAK BRACE	2 1/2" SQ. X 14GA TUBE			
KNEE BRACE	(2) 4" X 14GA HAT CHANNEL			
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE			
PURLINS	4" X 14GA HAT CHANNEL			
SHEATHING FASTENER SCHEDULE				
LOCATION	CORNER PANEL	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" CC	MIN. 1	4" CC	9" CC

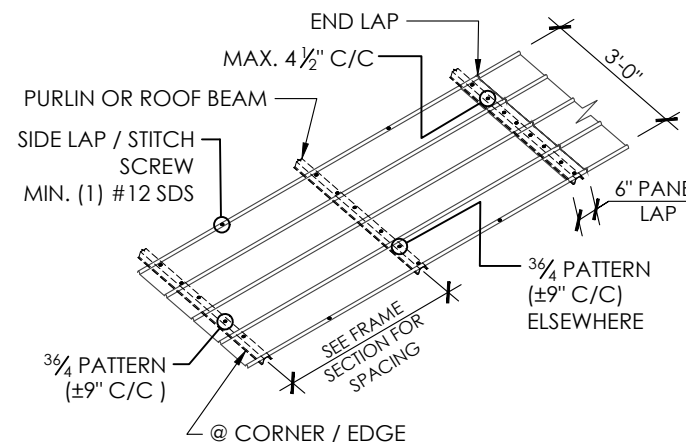
FASTENER TYPE: # 12x1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER



FRAME SECTION
SCALE: 3/16" : 1'



29GA. - 3/4" RIB - CORRUGATED SHEET
SCALE: 3/4" : 1'



SHEATHING FASTENER PATTERN
SCALE: 3/16" : 1'

LOCATION:
469 DELAWARE WAY
FORT WHITE, FL 32038

OWNER:
WESLEY CALDWELL

FRAME SECTION & DETAILS

SHEET TITLE:

PROJECT NO.:

MBD690AE396

CHECKED BY:

MJ

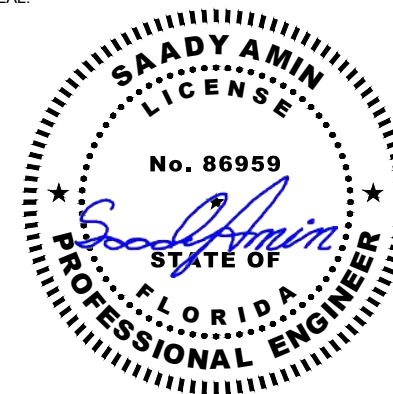
SHEET NO.:

3/10/2022

5 OF 7

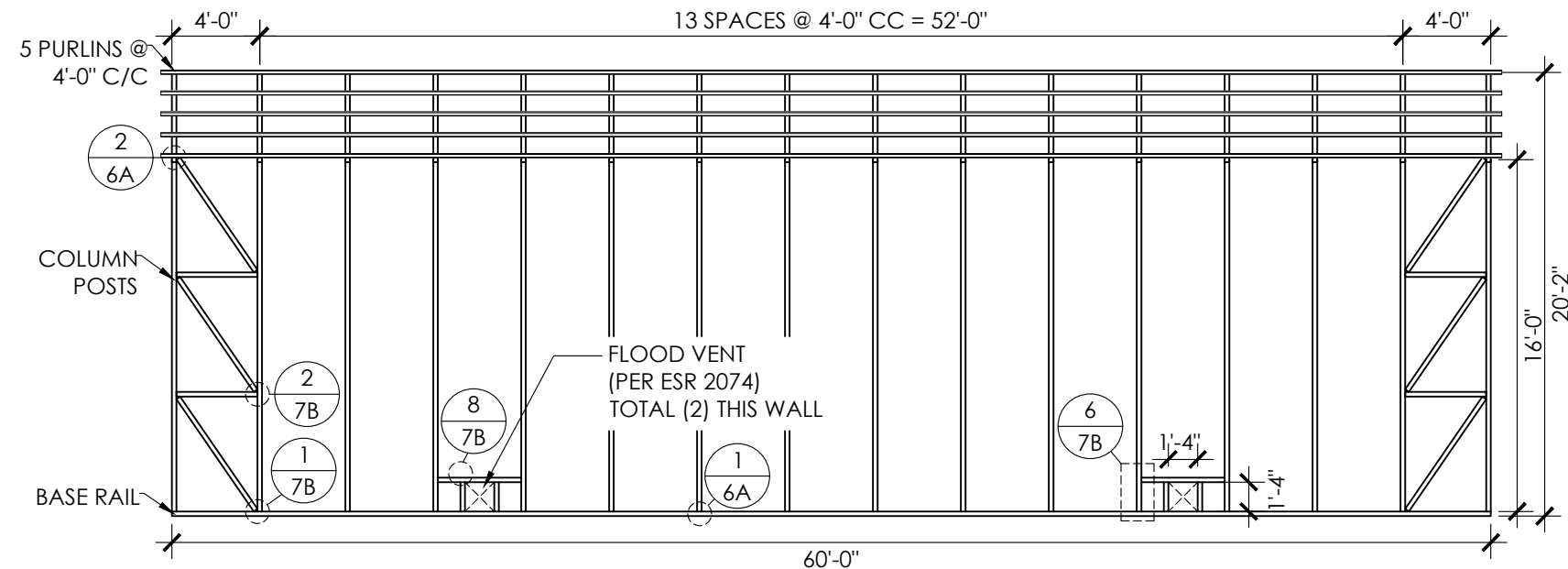


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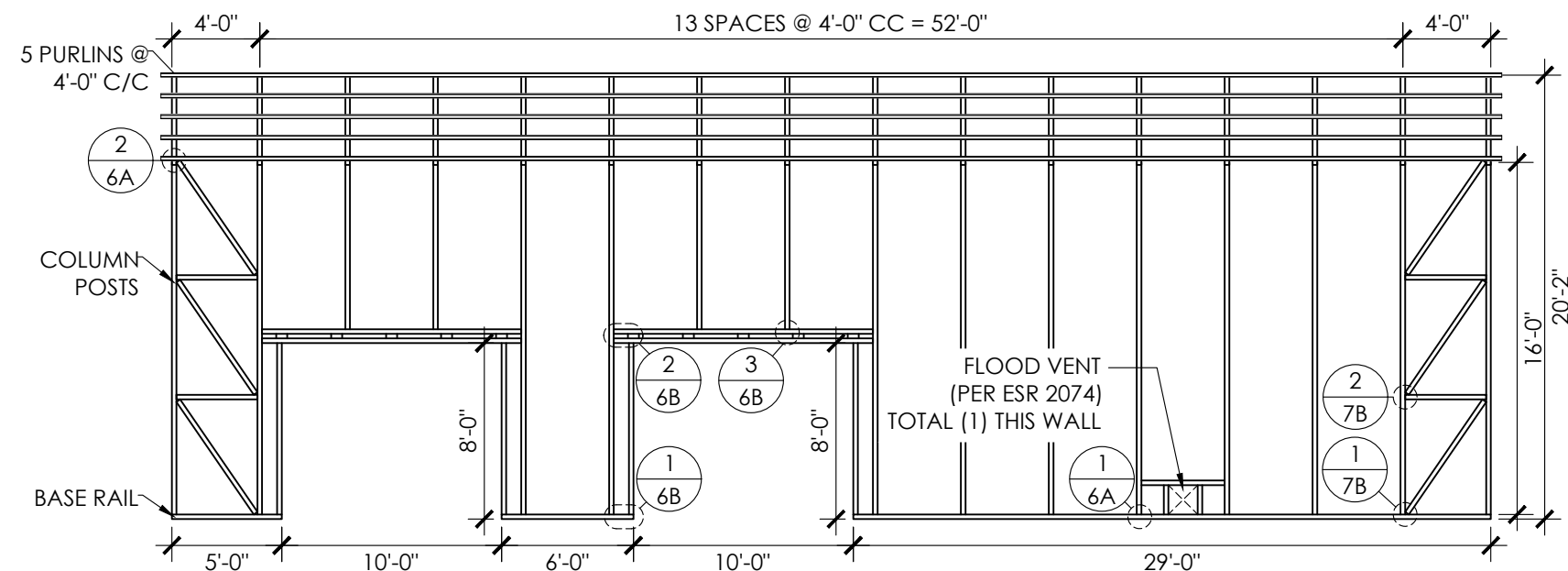
EXPIRES: 2/28/2023

DATE SIGNED: MAR 10 2022



RIGHT SIDE WALL FRAMING

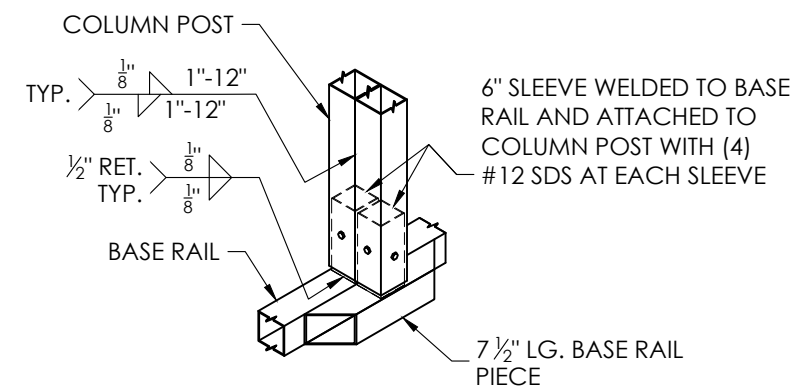
SCALE: 1/8" : 1'



LEFT SIDE WALL FRAMING

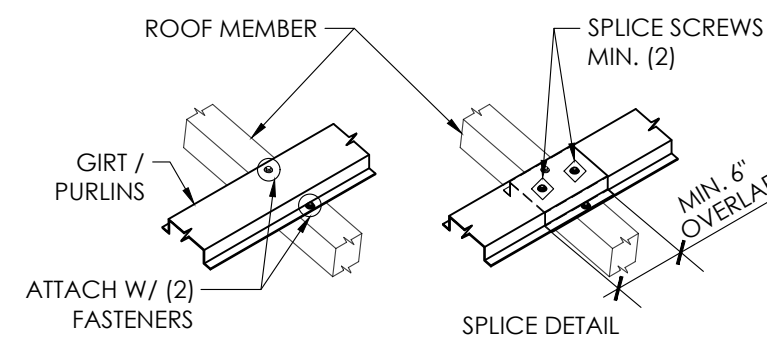
SCALE: 1/8" : 1'

MEMBER PROPERTIES	
CORNER POST	2 1/2" SQ. X 14GA TUBE
SIDE WALL POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
BASE RAIL	2 1/2" SQ. X 14GA TUBE
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE
PURLINS	4" X 14GA HAT CHANNEL
DOUBLE HEADER W/ SPACER	(2) 2 1/2" SQ. X 14GA TUBE W/ 6" SPACER
DIAGONAL BRACES	2 1/4" SQ. X 14GA TUBE



COLUMN-BASE DETAIL

SCALE: 3/4" : 1'



GIRT/PURLIN DETAIL

SCALE: 3/4" : 1'

LOCATION:
469 DELAWARE WAY
FORT WHITE, FL 32038

OWNER:
WESLEY CALDWELL

SHEET TITLE:
SIDE WALL FRAMING

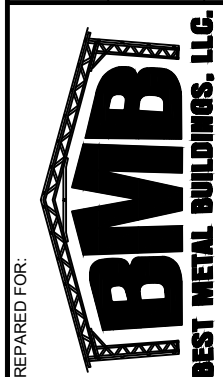
PROJECT NO.:
039-22-0595

DRAWING NO.:
MBD690AE396

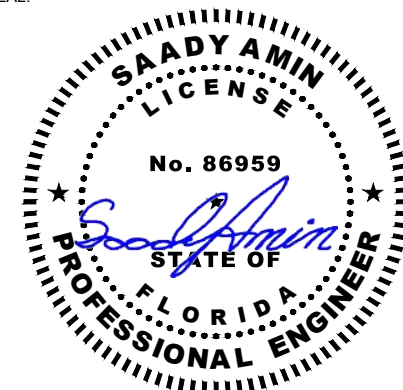
CHECKED BY:
MJ

DRAWN BY:

SHEET NO.:
6A OF 7

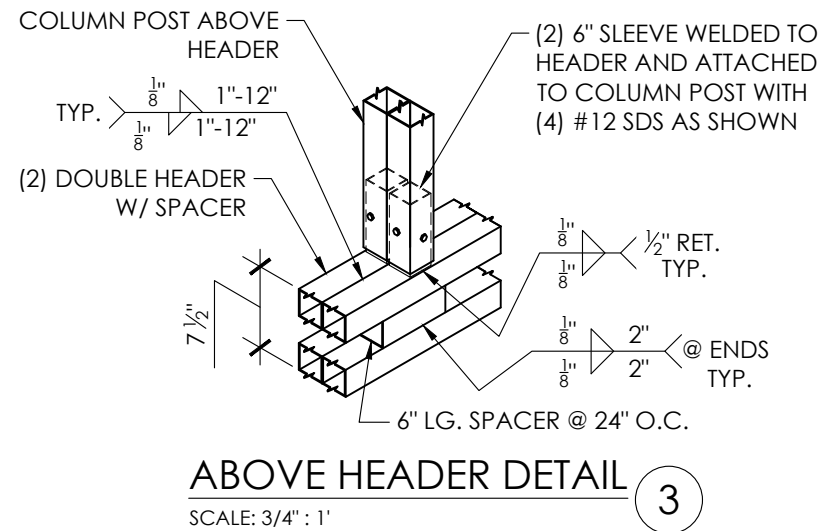
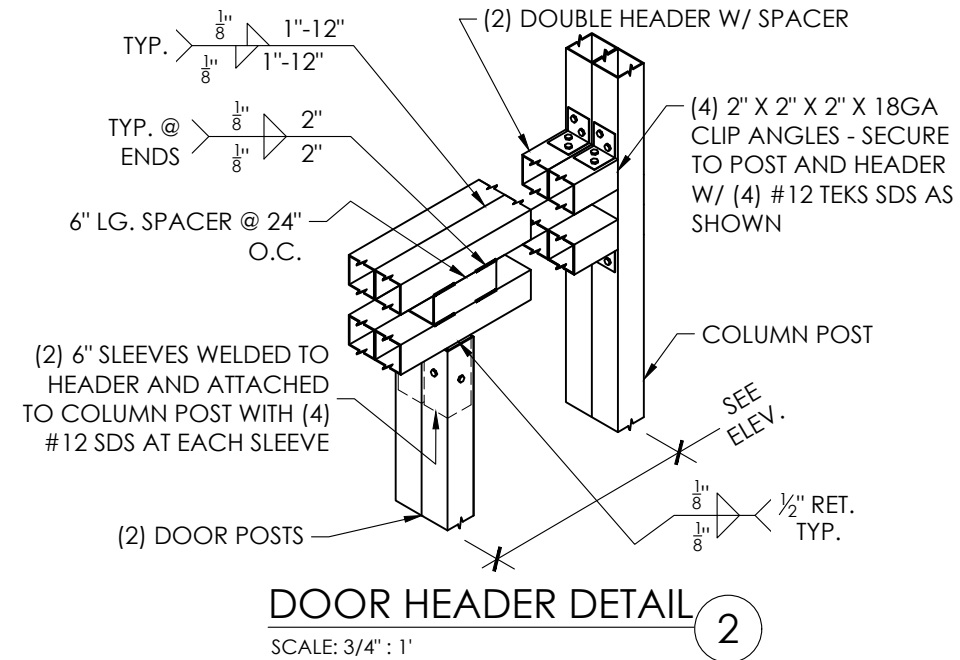
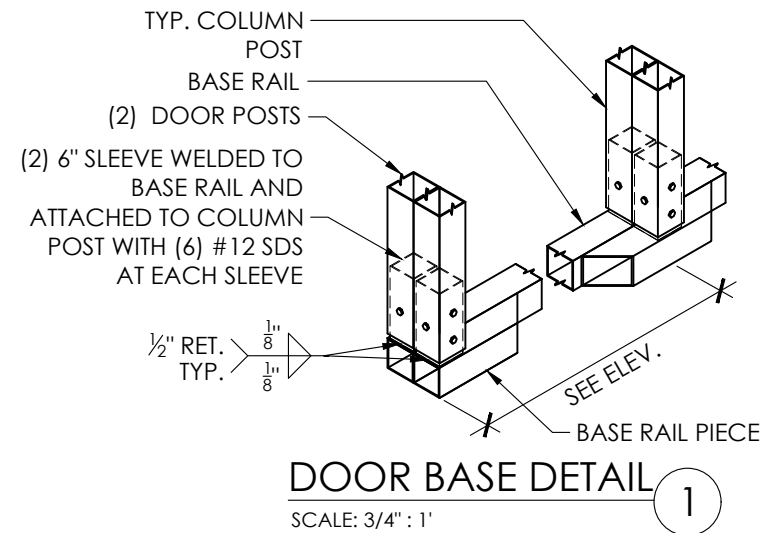


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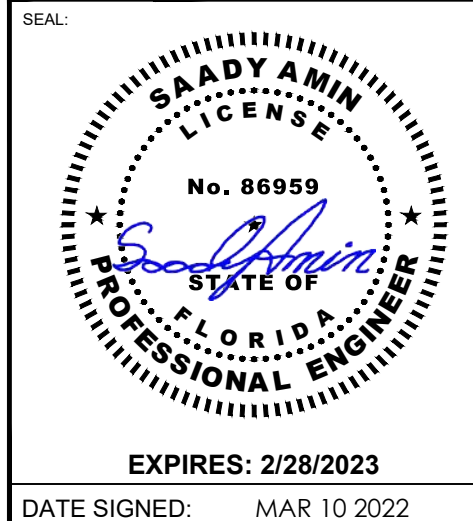
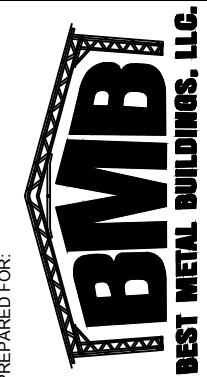


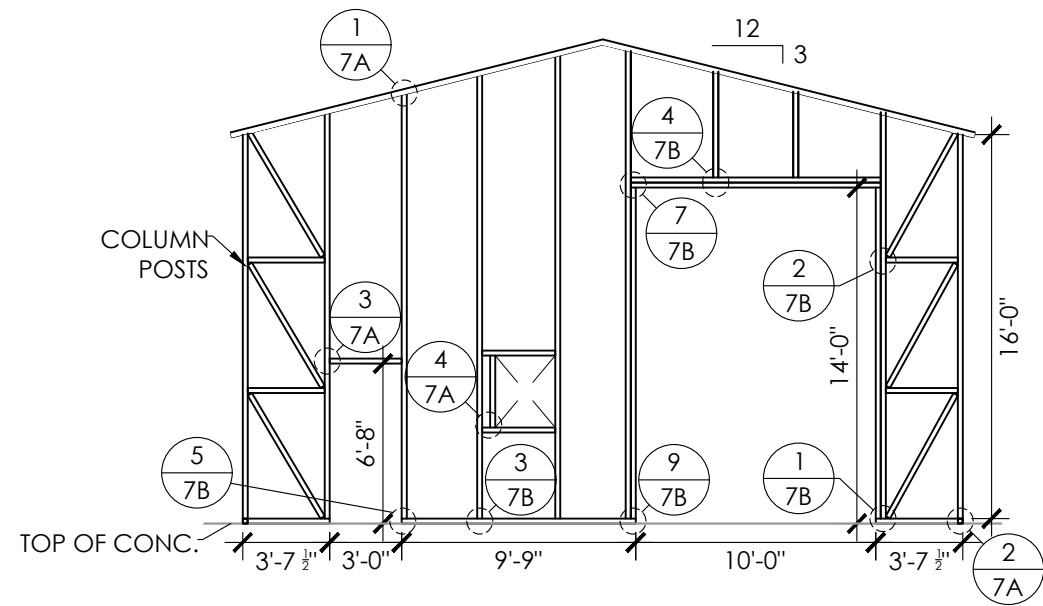
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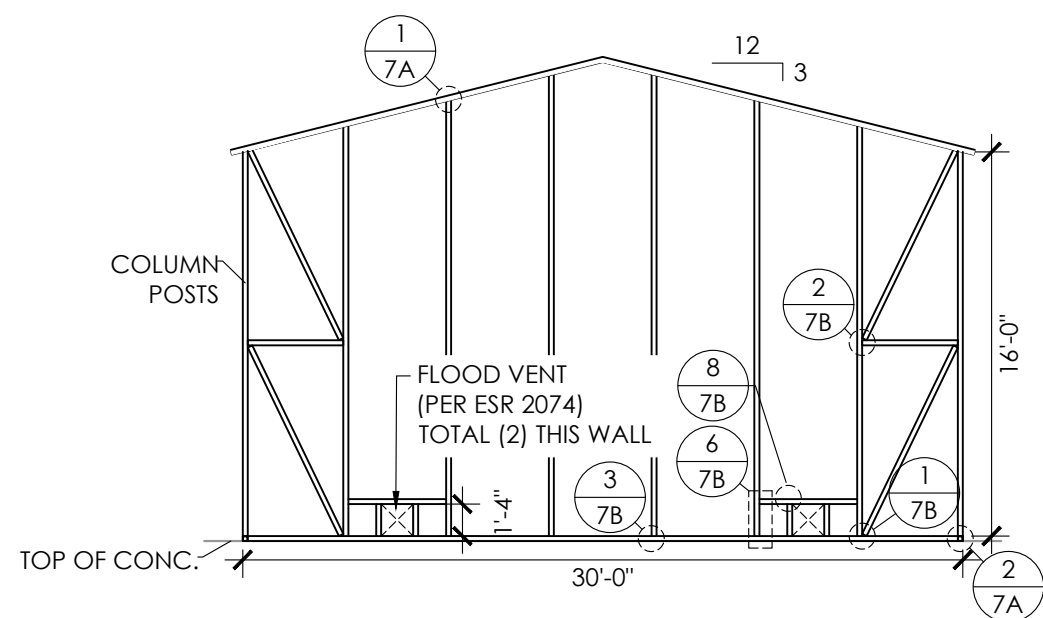
OWNER:	WESLEY CALDWELL	LOCATION:	469 DELAWARE WAY FORT WHITE, FL 32038
SHEET TITLE:	SIDE WALL FRAMING DETAILS		
DRAWING NO.:	MBD690AE396	PROJECT NO.:	039-22-0595
DRAWN BY:	MJ	CHECKED BY:	
DATE:	3/10/2022	SHEET NO.:	6B OF 7





FRONT END WALL FRAMING

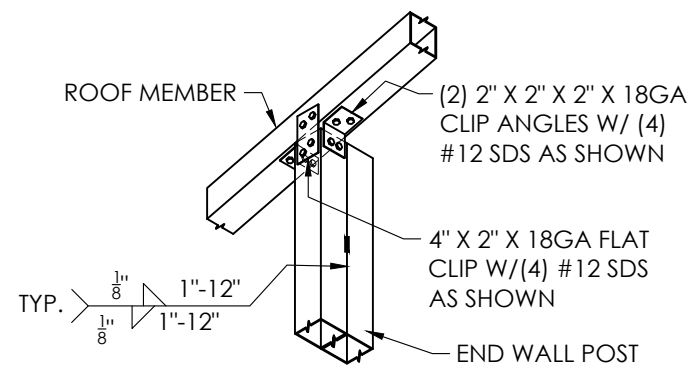
SCALE: 1/8" : 1'



REAR END WALL FRAMING

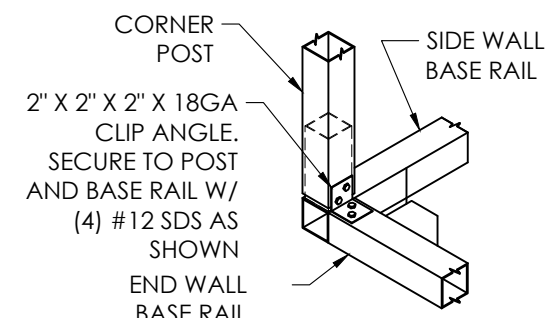
SCALE: 1/8" : 1'

MEMBER PROPERTIES	
CORNER POST	2 1/2" SQ. X 14GA TUBE
ROOF MEMBER	2 1/2" SQ. X 14GA TUBE
BASE RAIL	2 1/2" SQ. X 14GA TUBE
HEADER	2 1/2" SQ. X 14GA TUBE
DOOR POST	2 1/2" SQ. X 14GA TUBE
WINDOW POST	2 1/2" SQ. X 14GA TUBE
END WALL POSTS	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
DIAGONAL BRACES	2 1/4" SQ. X 14GA TUBE



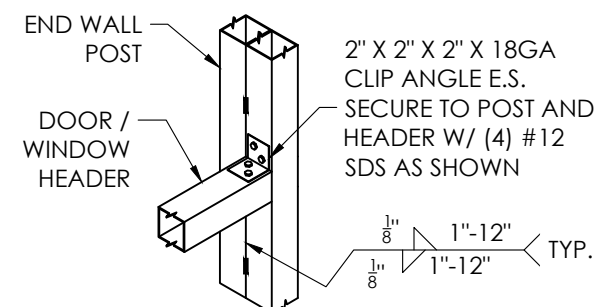
ROOF MEMBER DETAIL

SCALE: 3/4" : 1'



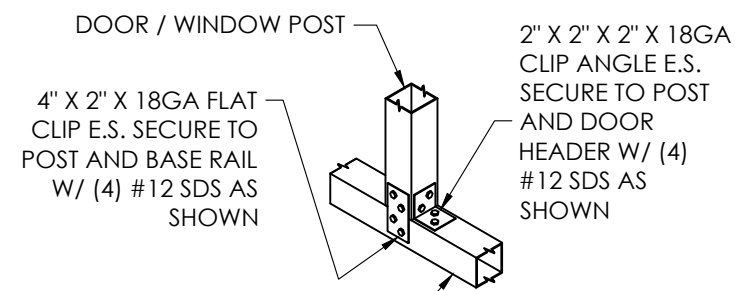
CORNER DETAIL

SCALE: 3/4" : 1'



WINDOW/DOOR DETAIL

SCALE: 3/4" : 1'



WINDOW/DOOR DETAIL

SCALE: 3/4" : 1'

LOCATION:
469 DELAWARE WAY
FORT WHITE, FL 32038

OWNER:
WESLEY CALDWELL

SHEET TITLE:
END WALL FRAMING & DETAILS

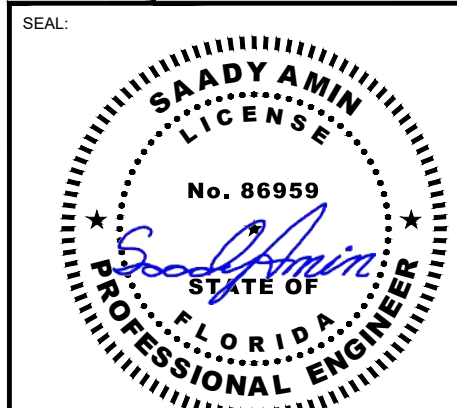
PROJECT NO.:
039-22-0595

DRAWING NO.:
MBD690AE396

DRAWN BY:
MJ

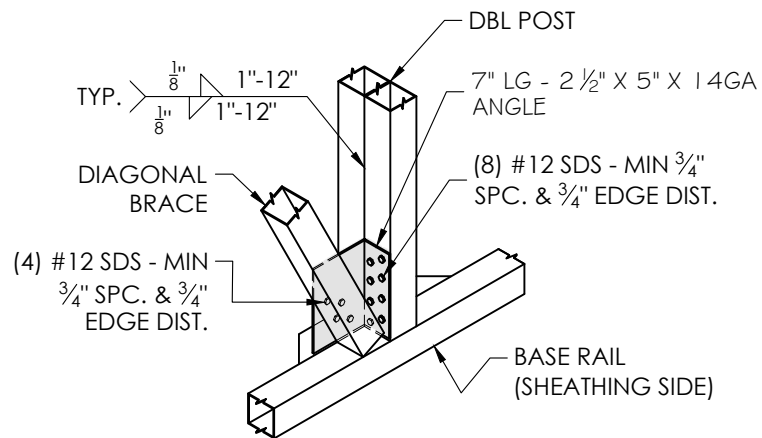
CHECKED BY:

SHEET NO.:
7A OF 7

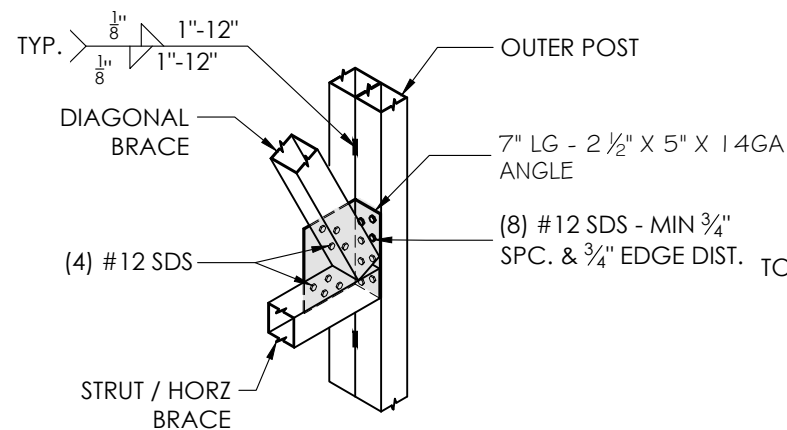


EXPIRES: 2/28/2023

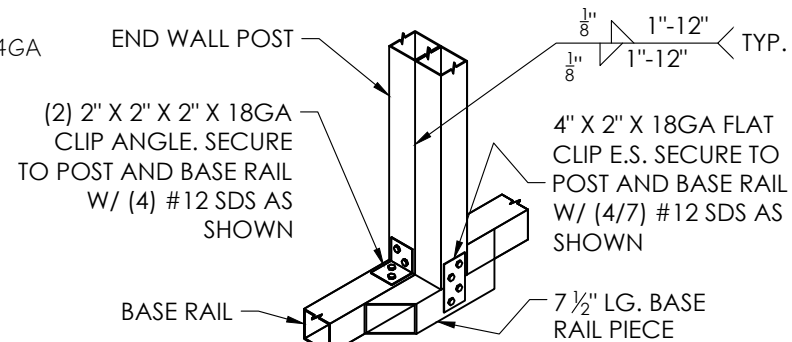
DATE SIGNED: MAR 10 2022



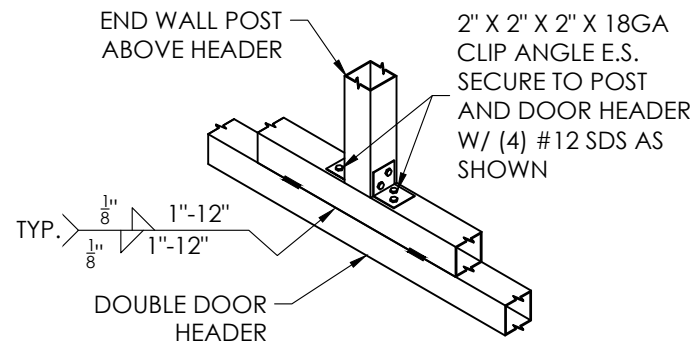
LATTICE BRACE DETAIL 1
SCALE: 3/4" : 1'



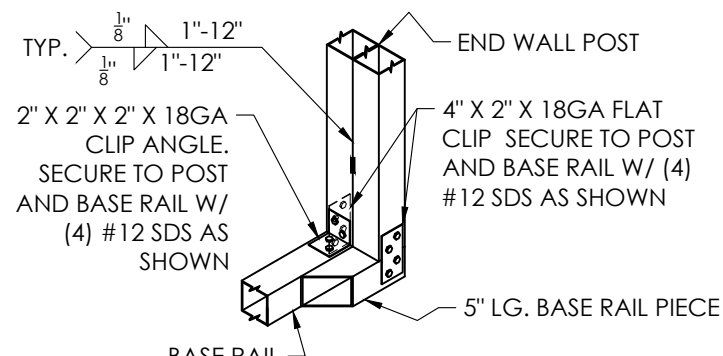
LATTICE BRACE DETAIL 2
SCALE: 3/4" : 1'



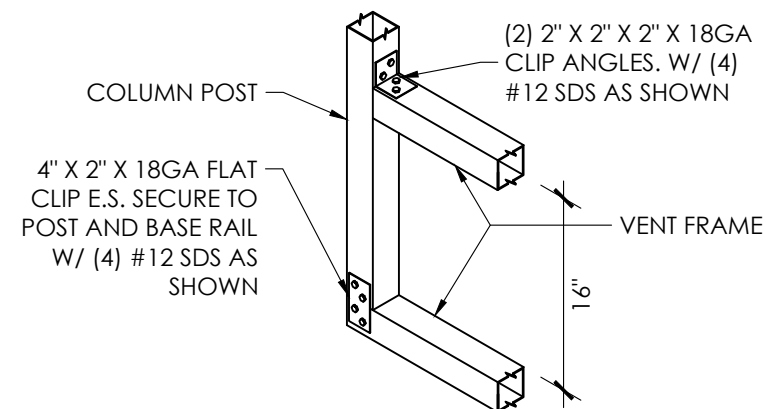
COLUMN-BASE DETAIL 3
SCALE: 3/4" : 1'



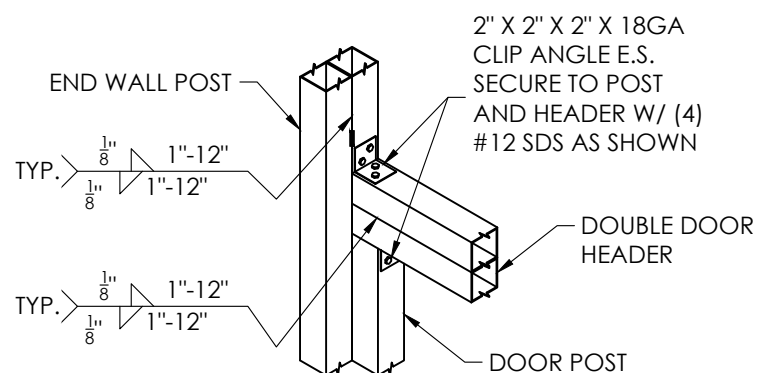
ABOVE HEADER DETAIL 4
SCALE: 3/4" : 1'



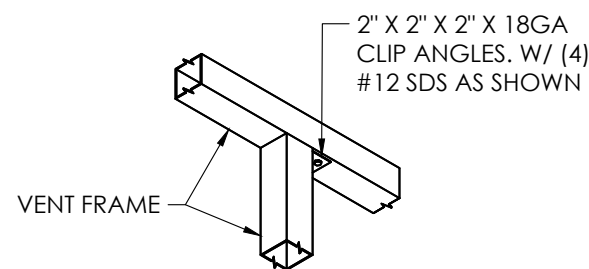
DOOR BASE DETAIL 5
SCALE: 3/4" : 1'



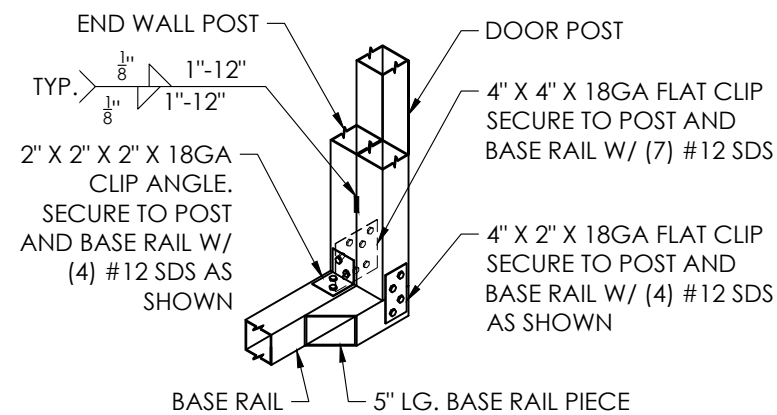
VENT CONNECTION DETAIL 6
SCALE: 3/4" : 1'



DOOR HEADER DETAIL 7
SCALE: 3/4" : 1'



VENT CONNECTION DETAIL 8
SCALE: 3/4" : 1'



DOOR BASE DETAIL 9
SCALE: 3/4" : 1'

LOCATION:
469 DELAWARE WAY
FORT WHITE, FL 32038

OWNER:
WESLEY CALDWELL

END WALL FRAMING DETAILS

SHEET TITLE:

PROJECT NO.:

MBD690AE396

DRAWING NO.:

CHECKED BY:

MJ

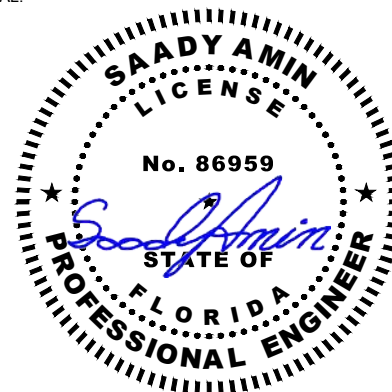
SHEET NO.:

3/10/2022

DATE:



SEAL:



EXPIRES: 2/28/2023

DATE SIGNED: MAR 10 2022