

SALLY WOODLEY

635 BARBECUE CHURCH RD., SANFORD, NC 27332
(HARNETT COUNTY, NC)
30' X 40' X 9'

STRUCTURAL DESIGN NOTES

- ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH , IBC 2015, ASCE7-10, OSHA, AISC 360, AISI 100, AWS D1.3 CODES AND ALL OTHER APPLICABLE LOCAL CITY OR COUNTY REQUIREMENTS.
- ALL MATERIALS IDENTIFIED BY A MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
- ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS. NO FIELD WELDING IS REQUIRED. WELDING ELECTRODES PER AWS CODE, E70XX UNLESS NOTED OTHERWISE ON PLANS.
- ALL STRUCTURAL FIELD CONNECTIONS SHALL BE #12-14 x 3/4" SDS (ESR-2194) U.N.O. NO NEOPRENE WASHERS ARE PERMITTED AT STRUCTURAL CONNECTIONS.
- STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80 KSI) OR EQ.
- SHEATHING CONNECTIONS SHALL BE #12-14 x 3/4" SDS. NEOPRENE WASHERS ARE REQUIRED.
- ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE ASTM A653 (HSLA) GRADE 50 STEEL (Fy = 50 KSI, Fu = 65 KSI) OR EQUAL.
- STRUCTURAL TUBE TS 2 1/2" x 2 1/2" x 14GA (0.083") IS EQUIVALENT TO TS 2 1/2" x 2 1/2" x 12GA (0.109") AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
- 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.

STRUCTURAL DESIGN CRITERIA

PREVAILING CODE: 2018 NORTH CAROLINA B.C.
USE GROUP: U (PRIVATE GARAGE / SHED)
CONSTRUCTION TYPE: V - B
RISK CATEGORY: I
BUILDING FOOTAGE: 1200 SQ.FT

- DEAD LOAD (D)
COLLATERAL LOAD 2.0 PSF
- ROOF LIVE LOAD (Lr) Lr = 20 PSF
- SNOW LOAD (S)
GROUND SNOW LOAD Pg = 10 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 = 7 PSF
SLOPED ROOF SNOW LOAD Ps = 7 PSF
MINIMUM SNOW LOAD Pm = 8 PSF
- WIND LOAD (W)
DESIGN WIND SPEED Vult = 110 MPH
EXPOSURE C
- SEISMIC LOAD (E)
Ss / S1 0.197/0.091
SDs / SD1 0.21/0.146
DESIGN CATEGORY C
SITE CLASS D
IMPORTANCE FACTOR Ie = 1.00

ASD LOAD COMBINATIONS:

- D + (Lr OR S)
- D + (0.6W OR ±0.7E)
- D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
- 0.6D + (0.6W OR ±0.7E)

SCOPE OF PLANS:

- 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.
- DOES NOT PROVIDE ANY ARCHITECTURAL, SITE, ZONING, HVAC, ELEC, MECH DESIGN OR REQUIREMENTS. THESE ITEMS MUST BE ADDRESSED BY THEIR RESPECTIVE PROFESSIONALS IN CHARGE.

STRUCTURAL DRAWING INDEX

- COVER SHEET
- ELEVATIONS
- FOUNDATION PLAN
- FOUNDATION DETAILS
- FRAME SECTION & DETAILS
- SIDE WALL FRAMING
- SIDE WALL DETAILS
- END WALL FRAMING
- END WALL DETAILS

SPECIAL INSPECTIONS

NO SPECIAL INSPECTIONS ARE REQUIRED FOR THIS STRUCTURE, AS IT MEETS THE EXCEPTIONS OF SECTION 1704 PER 2018 NORTH CAROLINA B.C., UNLESS EXPLICITLY REQUIRED BY THE BUILDING OFFICIAL.

Omar Abu-Yasein Digitally signed by Omar Abu-Yasein
Date: 2023.03.15 13:43:43 -0400


P-1723
EXP. 6/30/2023

EXPIRES: 12/31/2023
SIGNED: MAR 13 2023

225.475

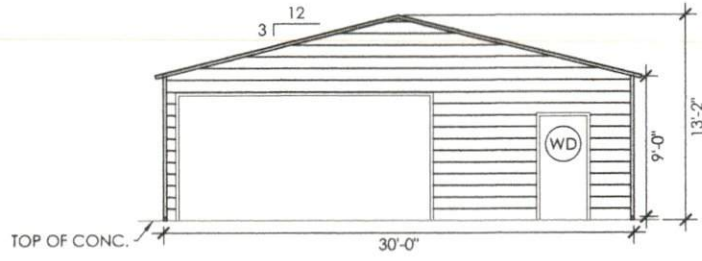
THE INFORMATION CONTAINED IN THESE PLANS IS THE PROPERTY OF HERITAGE CARPORTS AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF HERITAGE CARPORTS IS PROHIBITED.

FOR QUESTIONS, MODIFICATIONS, REVISIONS OR CORRECTIONS NEEDED TO PLANS, PLEASE CONTACT THE METAL BUILDINGS MANUFACTURER LISTED ON PLANS. ENGINEER OF RECORD REQUIRES AUTHORIZATION FROM THE METAL BUILDINGS MANUFACTURER TO MAKE ANY CHANGES TO PLANS.

SHEET NO. 1 OF 7	
PROJECT NO. 325-23-0592	
DRAWN BY: CS	DATE: 3/13/2023
COVER SHEET	
LOCATION: 635 BARBECUE CHURCH RD. SANFORD, NC 27332	
PROJECT TITLE: SALLY WOODLEY	
SHEET TITLE: METAL BUILDING MANUFACTURER	
 HERITAGE CARPORTS 3870 Statesville Blvd Salisbury, NC 28147 Office: (704) 431-4087 Cell: (704) 225-2117	

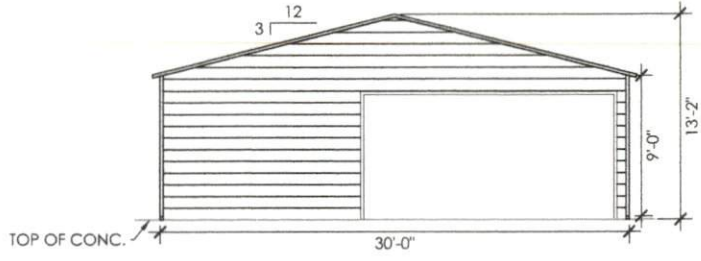


REVISIONS LIST		
MARK	COMMENTS	DATE
-	ISSUED FOR PERMIT & CONST.	MAR 13 2023



FRONT END WALL ELEVATION

SCALE: 1/8" : 1'



BACK END WALL ELEVATION

SCALE: 1/8" : 1'

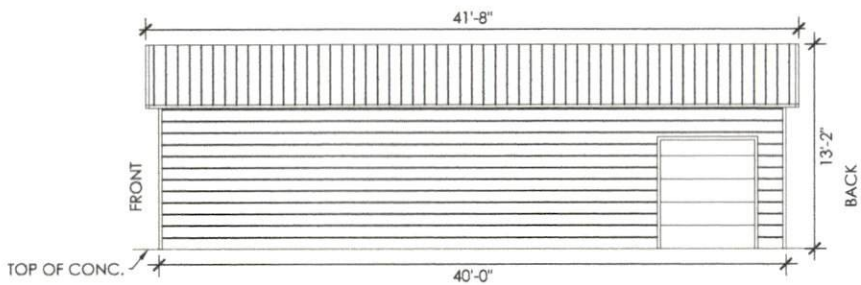
DESIGN NOTES

1. THE INTENTION OF ELEVATIONS PROVIDED ON THIS SHEET IS TO INDICATE STRUCTURAL COMPONENTS, DIMENSIONS, AND BUILDING ORIENTATION ONLY.
2. ARCHITECTURAL DESIGN REQUIREMENTS ARE NOT COVERED IN THIS PLAN SET. THESE DESIGN REQUIREMENTS SHALL BE ADDRESSED IN A SEPARATE ARCHITECTURAL SET BY RESPONSIBLE LICENSED PROFESSIONALS IN CHARGE, AS NEEDED.
3. ALL EXT ROOF SHEATHING SHALL BE: CLASS A RATED 29GA. 3/4" RIB HT - GALV OR PAINTED STEEL (FY=80 KSI) OR EQ.
4. ALL EXT WALL SHEATHING SHALL BE: CLASS A RATED 29GA. 3/4" RIB HT - GALV OR PAINTED STEEL (FY=80 KSI) OR EQ.
5. LOC OF WALK-IN DOORS OR WINDOWS CAN BE DETERMINED ON SITE AS LONG AS THEY FALL BETWEEN BAYS (BETWEEN FULL FRAMES).

LEGEND

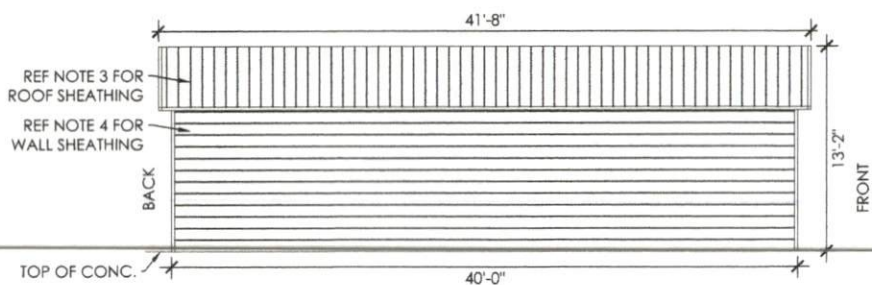
(WD) WALK-IN DOORS (REF DOOR MFG)

NOTE: ANY DOOR DESIGN INFORMATION IS NOT COVERED IN THIS PLAN SET AND SHALL BE ADDRESSED BY OTHERS.



RIGHT SIDE WALL ELEVATION

SCALE: 1/8" : 1'



LEFT SIDE WALL ELEVATION

SCALE: 1/8" : 1'

ELEVATIONS

LOCATION:
635 BARBECUE CHURCH RD.
SANFORD, NC 27332

SHEET TITLE:
ELEVATIONS

PROJECT TITLE:
SALLY WOODLEY

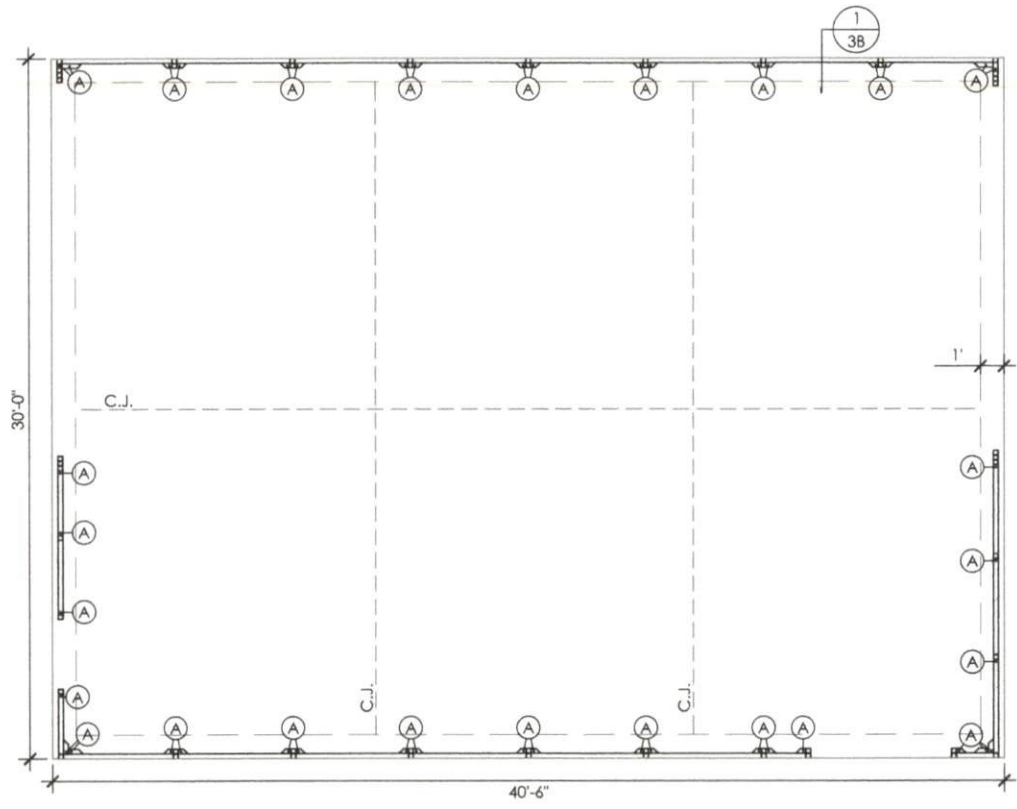
METAL BUILDING MANUFACTURER

HERITAGE CARPORTS

3870 Statesville Blvd
Salisbury, NC 28147
Office: (704) 431-4097
Cell: (704) 223-2117



EXPIRES: 12/31/2023
SIGNED: MAR 13 2023



FOUNDATION PLAN
 SCALE: 3/16" = 1'

MEMBER PROPERTIES	
BASE RAIL	2 1/2" SQ. X 14GA TUBE
SIDE COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
END COLUMN POST	2 1/2" SQ. X 14GA TUBE
CONCRETE SLAB	
ANCHOR 'A'	1/20" X 7" LG. POWER-STUD+ SD1 EXPANSION ANCHOR (PER ESR 2818)

FOUNDATION NOTES:

- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- CONCRETE ANCHORS SHALL BE LOCATED AS SHOWN ON THE FOUNDATION PLAN WITH A MINIMUM OF (2) ANCHORS 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.
- IF LEVELING CURB IS REQUIRED, CONTACT METAL BUILDING MANUFACTURER FOR DETAILS BEFORE PROCEEDING. MIN 8" WIDE CURB REQ.

SHEET TITLE: **FOUNDATION PLAN: CONCRETE SLAB**
 PROJECT TITLE: **SALLY WOODLEY**
 LOCATION: **635 BARBEQUE CHURCH RD. SANFORD, NC 27332**

HERITAGE CARPORTS
 METAL BUILDING MANUFACTURER
 3870 Statesville Blvd
 Salisbury, NC 28147
 Office: (704) 431-4097
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EXPIRES: 12/31/2023
 SIGNED: MAR 13 2023

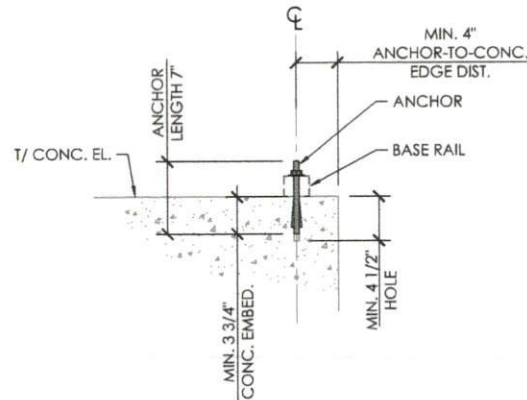
MEMBER PROPERTIES	
BASE RAIL	2 1/2" SQ. X 14GA TUBE
SIDE COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
END COLUMN POST	2 1/2" SQ. X 14GA TUBE
CONCRETE SLAB	
ANCHOR 'A'	1/2" X 7" LG. POWER-STUD+ SD1 EXPANSION ANCHOR (PER ESR 2818)

ANCHORAGE NOTES:

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

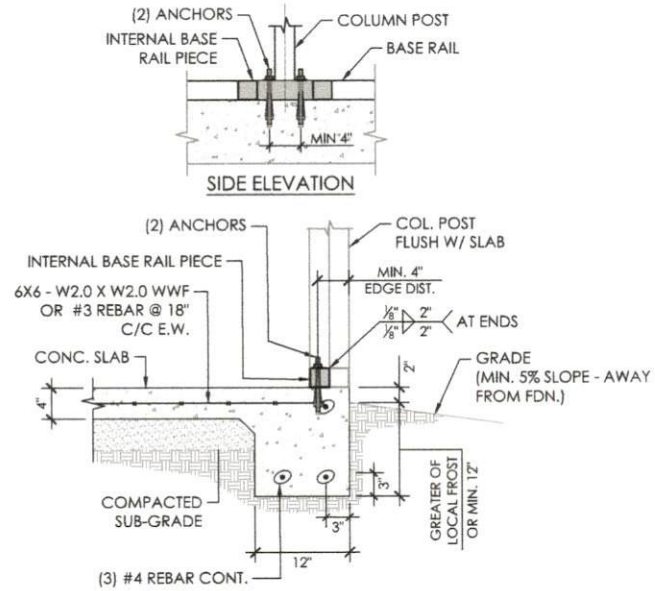
REINFORCEMENT NOTES:

- REINFORCING STEEL: NEW BILLET-STEEL, DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, WITH A MINIMUM YIELD OF 60 KSI FOR ALL BARS #4 AND LARGER UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 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 ONLY.

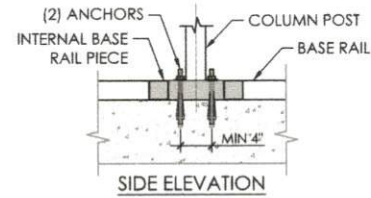


ANCHORAGE DETAIL

SCALE: 1" = 1'



1 FOUNDATION DETAIL
SCALE: 3/4" = 1'

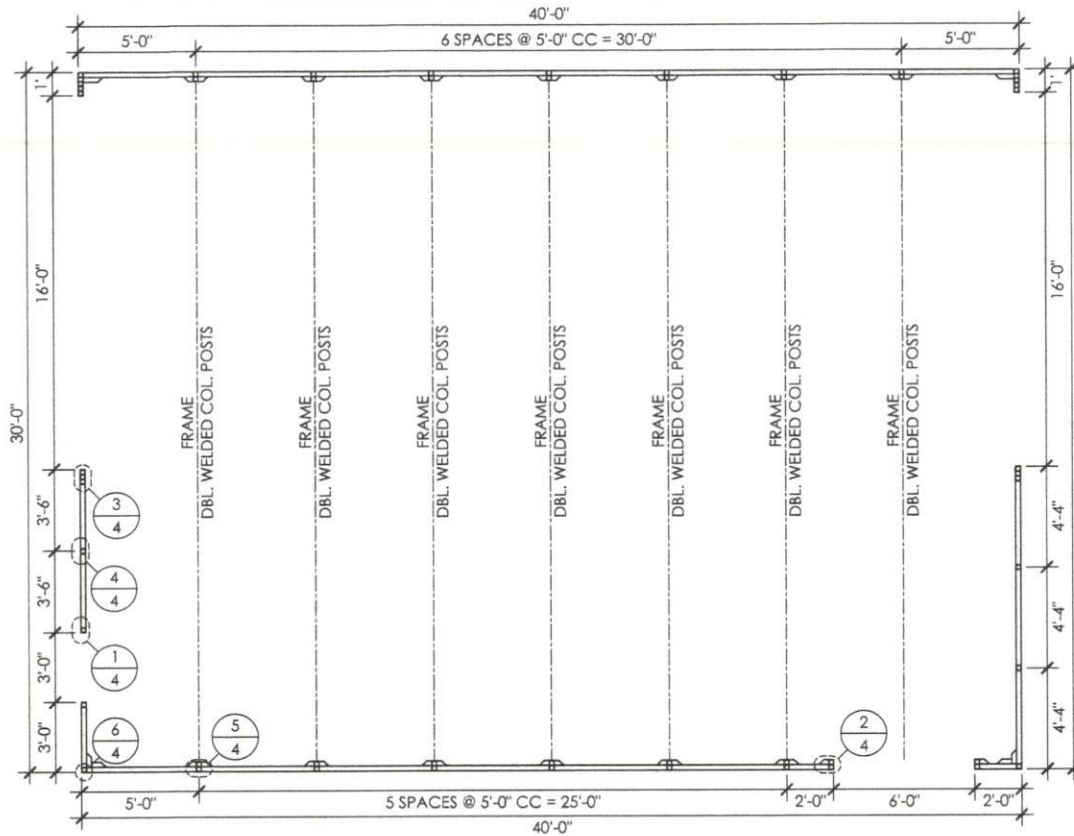


SHEET NO. 3B OF 7	
PROJECT NO. 325-23-0592	
DRAWN BY: CS	DATE: 3/13/2023
SHEET TITLE: FOUNDATION DETAILS: CONCRETE SLAB	LOCATION: 635 BARBECUE CHURCH RD. SANFORD, NC 27332
	PROJECT TITLE: SALLY WOODLEY
METAL BUILDING MANUFACTURER HERITAGE CARPORTS 3870 Statesville Blvd Salisbury, NC 28147 Office: (704) 431-4087 Cell: (704) 223-2117	



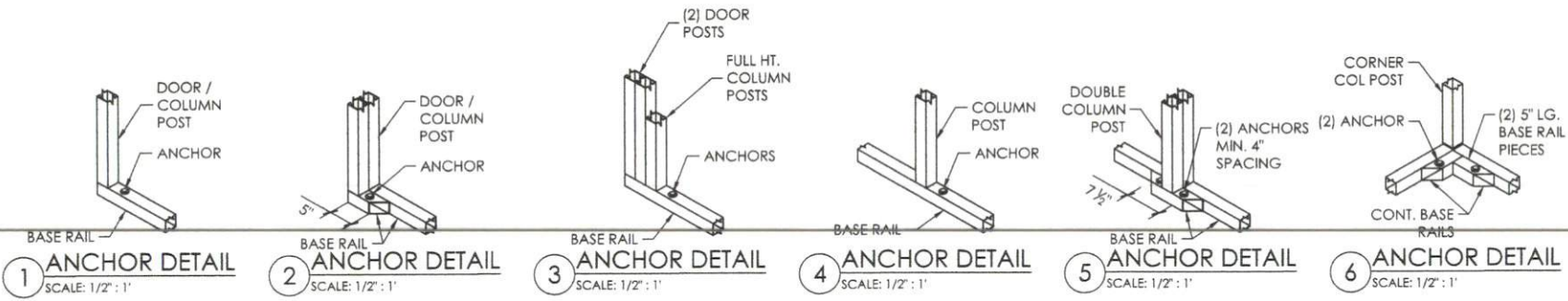
EXPIRES: 12/31/2023

SIGNED: MAR 13 2023



COLUMN LAYOUT PLAN
SCALE: 3/16" : 1'

NOTE:
SEE SHEET 3A / 3B FOR ANCHOR TYPE
SEE SHEET 5 FOR FRAME SECTION AND DETAILS



EXPIRES: 12/31/2023
SIGNED: MAR 13 2023

SHEET NO. 4 OF 7	
PROJECT NO. 325-23-0592	
DRAWN BY: CS	DATE: 3/13/2023
COLUMN LAYOUT PLAN	
LOCATION: 635 BARBECUE CHURCH RD. SANFORD, NC 27332	
PROJECT TITLE: SALLY WOODLEY	
METAL BUILDING MANUFACTURER	
HERITAGE CARPORTS	
3870 Statesville Blvd Salisbury, NC 28147 Office: (704) 431-4097 Cell: (704) 223-2117	

FRAME SECTION & DETAILS

LOCATION: 635 BARBECUE CHURCH RD. SANFORD, NC 27332

PROJECT TITLE: SALLY WOODLEY

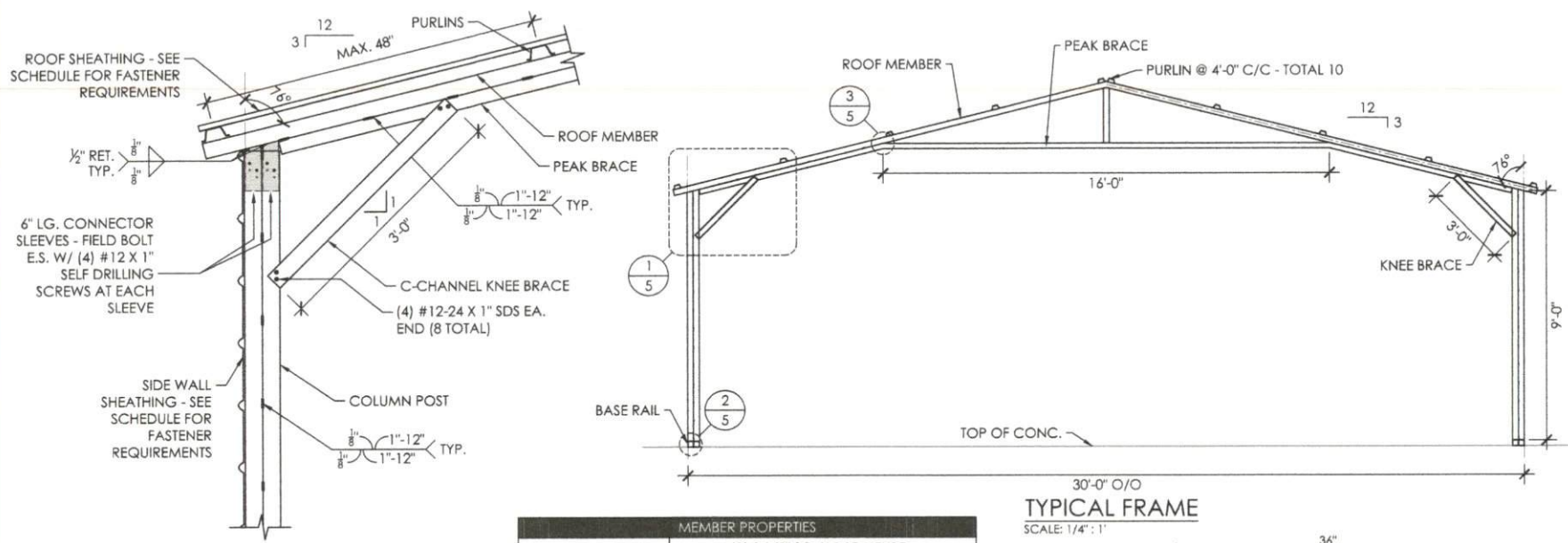
SHEET TITLE: METAL BUILDING MANUFACTURER

HERITAGE CARPORTS

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 Salisbury, NC 28147
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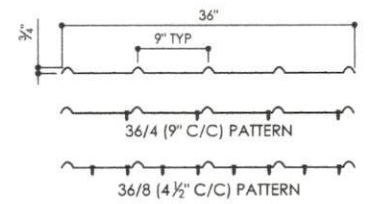
1 FRAME DETAIL
 SCALE: 3/4" : 1'

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 1/2" X 14GA CHANNEL
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE
PURLINS	4" X 1" X 14GA HAT CHANNEL

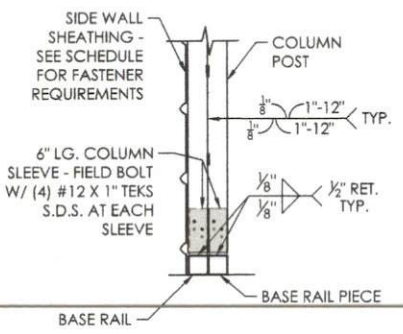
SHEATHING FASTENER SCHEDULE				
LOCATION	CORNER PANEL	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" CC	MIN. 1	4 1/2" CC	9" CC

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

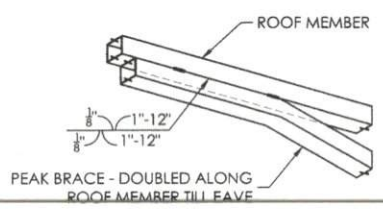
TYPICAL FRAME
 SCALE: 1/4" : 1'



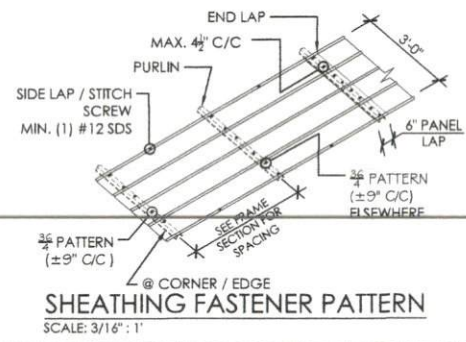
29GA. - 3/4" RIB - CORRUGATED SHEET
 SCALE: 3/4" : 1'



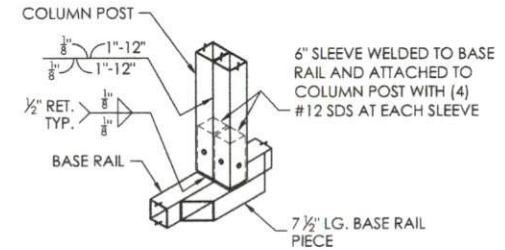
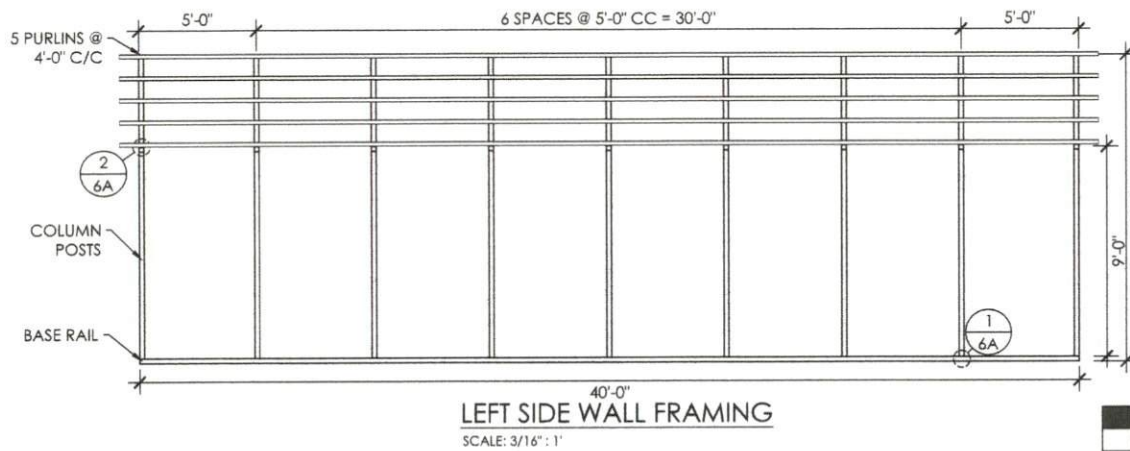
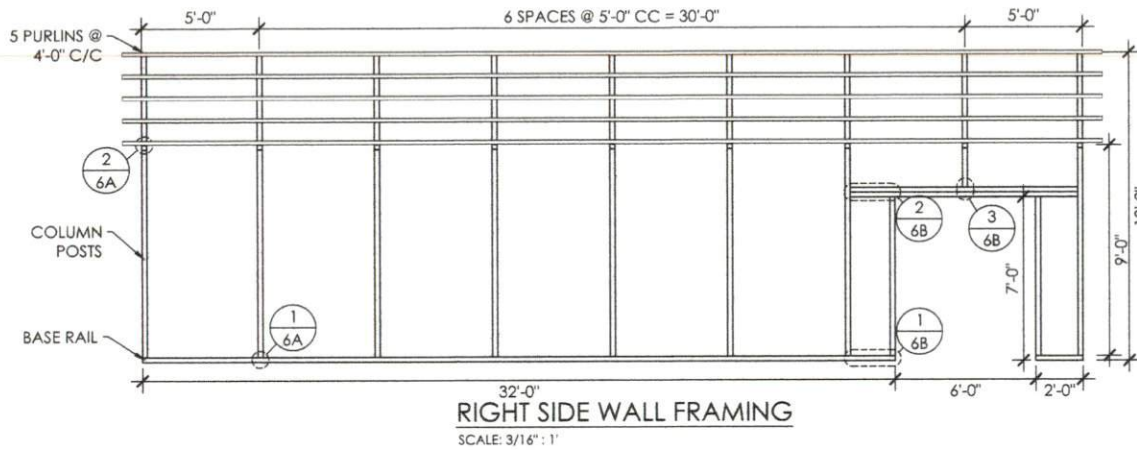
2 BASE DETAIL
 SCALE: 3/4" : 1'



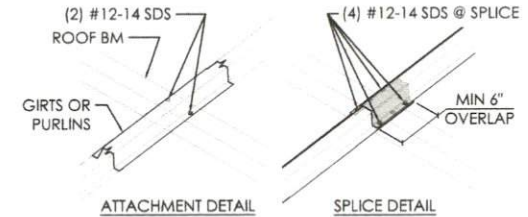
3 PEAK BRACE DETAIL
 SCALE: 3/4" : 1'



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



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



2 GIRT/PURLIN DETAIL
 SCALE: 3/4" : 1"

SIDE WALL FRAMING

LOCATION: 635 BARBECUE CHURCH RD. SANFORD, NC 27332

PROJECT TITLE: SALLY WOODLEY

SHEET TITLE: METAL BUILDING MANUFACTURER

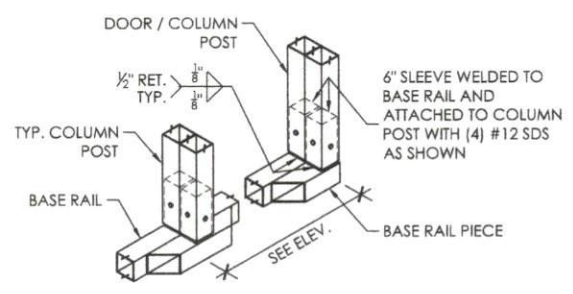
HERITAGE CARPORTS

3870 Statesville Blvd
 Salisbury, NC 28147
 Office: (704) 431-4087
 Cell: (704) 223-2117

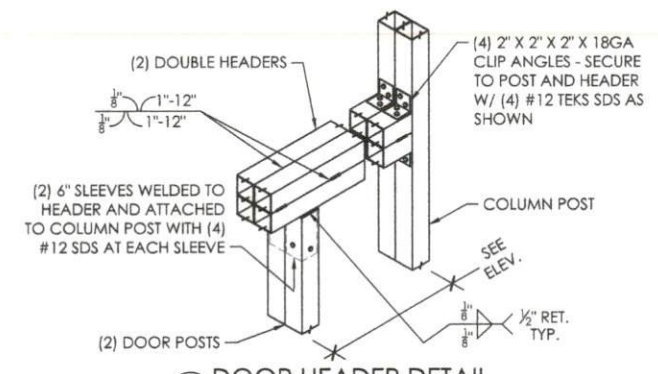
MEMBER PROPERTIES	
CORNER POST	2 1/2" SQ. X 14GA TUBE
SIDE WALL POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
BASE RAIL	2 1/2" SQ. X 14GA TUBE
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE
PURLINS	4" X 1" X 14GA HAT CHANNEL
DOUBLE DOOR POST	(2) 2 1/2" SQ. X 14GA TUBE
DOUBLE HEADER	(2) 2 1/2" SQ. X 14GA TUBE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



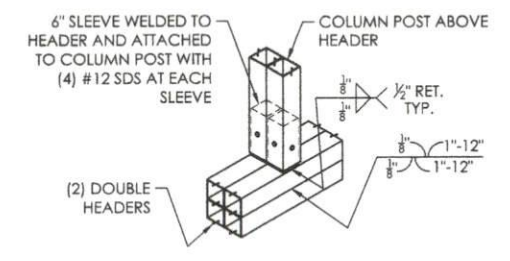
EXPIRES: 12/31/2023
 SIGNED: MAR 13 2023




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



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



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

SHEET TITLE:	SIDE WALL FRAMING DETAILS
	PROJECT TITLE: SALLY WOODLEY
LOCATION:	635 BARBECUE CHURCH RD. SANFORD, NC 27332
METAL BUILDING MANUFACTURER	
 HERITAGE CARPORTS 3870 Statesville Blvd Salisbury, NC 28147 Office: (704) 431-4087 Cell: (704) 223-2117	



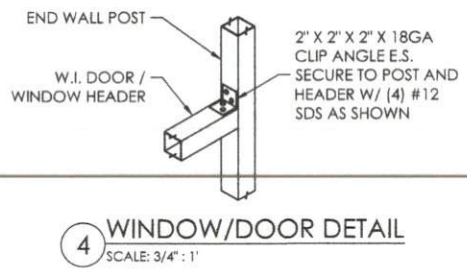
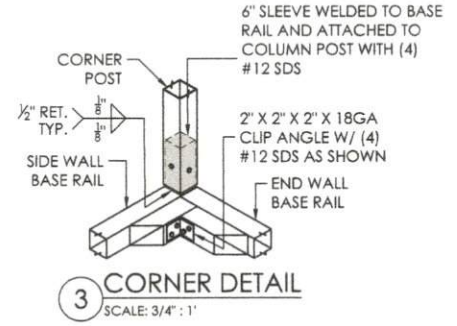
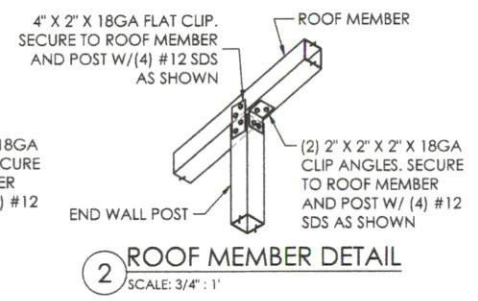
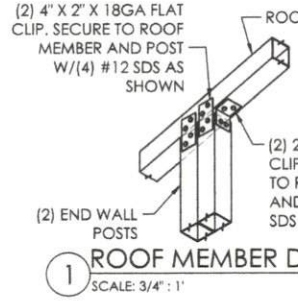
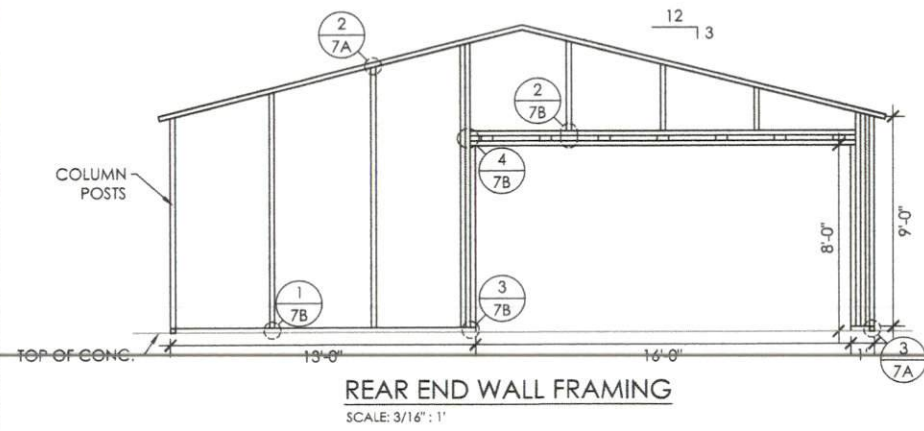
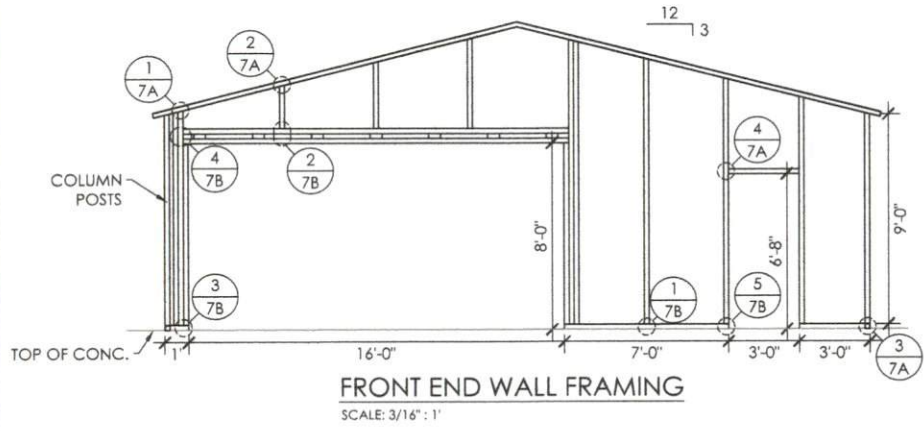
EXPIRES: 12/31/2023
 SIGNED: MAR 13 2023

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
DOUBLE HEADER W/ SPACER	(2) 2 1/2" SQ. X 14GA TUBE W/ 6" SPACER
DOOR POST	2 1/2" SQ. X 14GA TUBE
END WALL POSTS	2 1/2" SQ. X 14GA TUBE

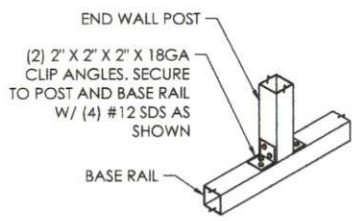
SHEET NO. **7A OF 7**
 PROJECT NO. 325-23-0592
 DRAWN BY: CS DATE: 3/13/2023

SHEET TITLE: **END WALL FRAMING & DETAILS**
 PROJECT TITLE: SALLY WOODLEY
 LOCATION: 635 BARBECUE CHURCH RD. SANFORD, NC 27332

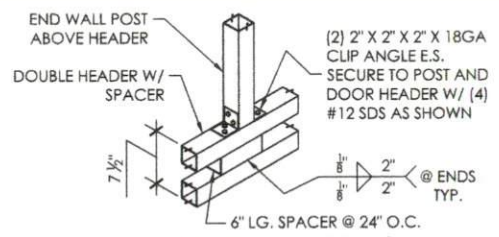
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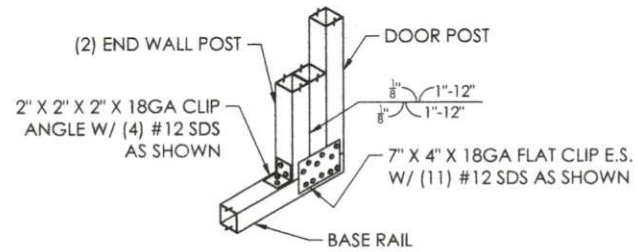
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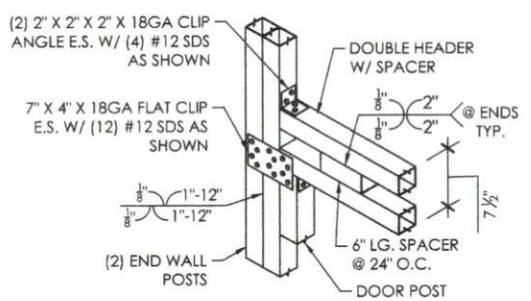
1 COLUMN-BASE DETAIL
 SCALE: 3/4" : 1"



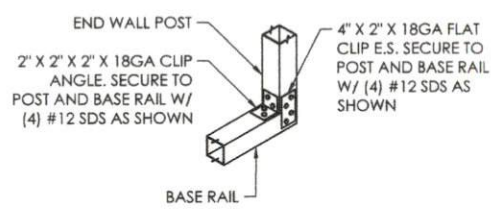
2 ABOVE HEADER DETAIL
 SCALE: 3/4" : 1"



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



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



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

SHEET TITLE: **END WALL FRAMING DETAILS**
 PROJECT TITLE: **SALLY WOODLEY**
 LOCATION: **635 BARBECUE CHURCH RD. SANFORD, NC 27332**

METAL BUILDING MANUFACTURER

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 Office: (704) 431-4097
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EXPIRES: 12/31/2023
 SIGNED: MAR 13 2023