



FRONT ELEVATION
1/4" = 1'-0"



REAR ELEVATION
1/4" = 1'-0"

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RESIDENCE OF
**TAYLOR
SMITH**

Project

MADDEN

HOME DESIGN

8375 Rushing Road
Denham Springs, Louisiana
70726
Phone: (225) 791-2912

A

B

D

D

Project No.: **The Meadow View**
DATE: **MAY 3, 2022**
DRAWN BY: **Steven Madden**
DESIGNED BY: **Steven Madden**

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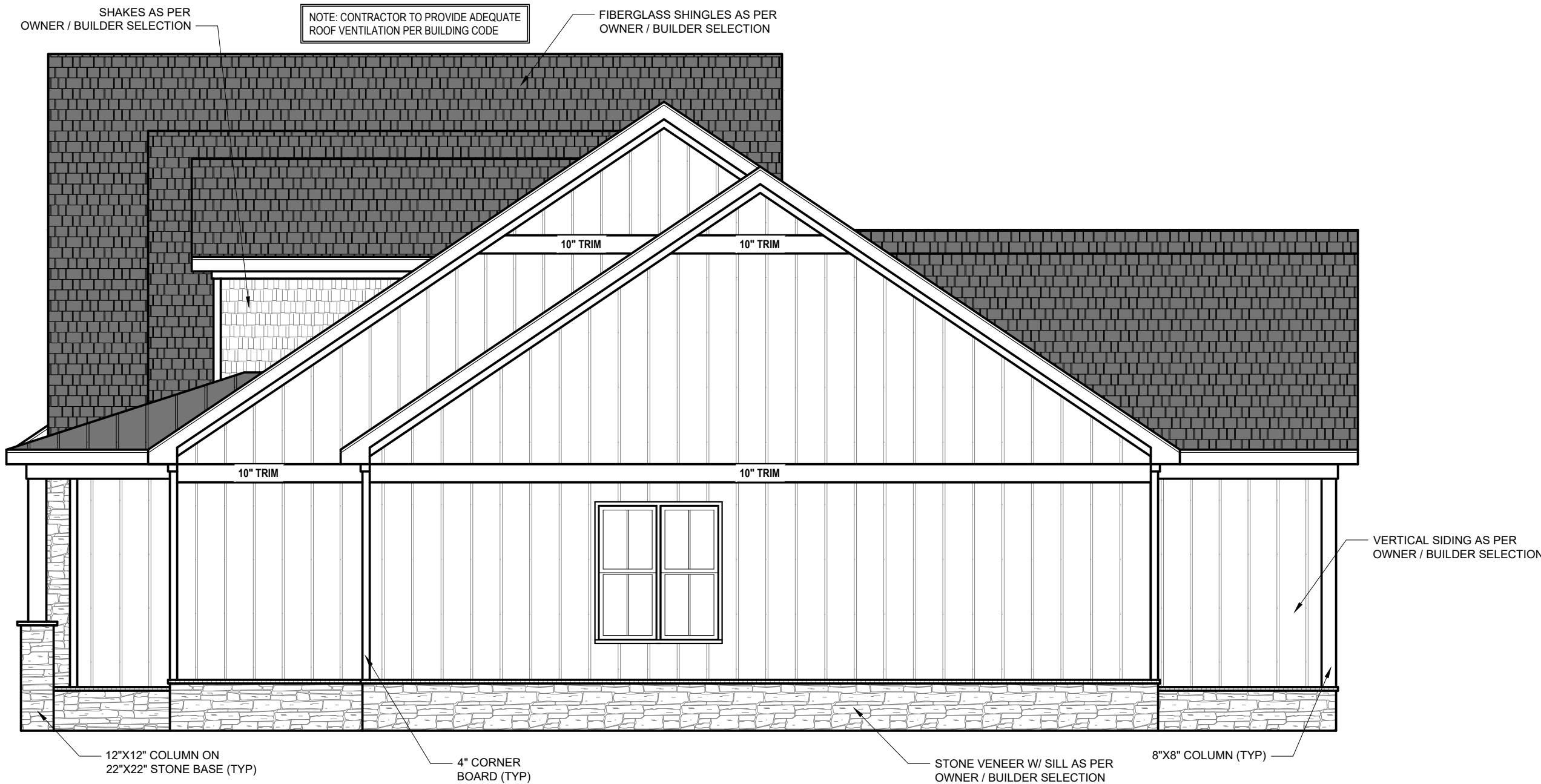
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Sheet Title

**FRONT & REAR
ELEVATIONS**

- Sheet:
- ☐ Preliminary Dwg.
☐ Bidding Doc.
☐ Construction Doc.

A2.0



RIGHT ELEVATION

1/4" = 1'-0"



LEFT ELEVATION

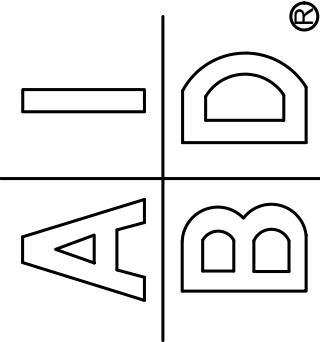
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**ELEVATIONS &
DETAILS**

- ☐ Preliminary Dwg.
☐ Bidding Doc.
☐ Construction Doc.

Sheet:

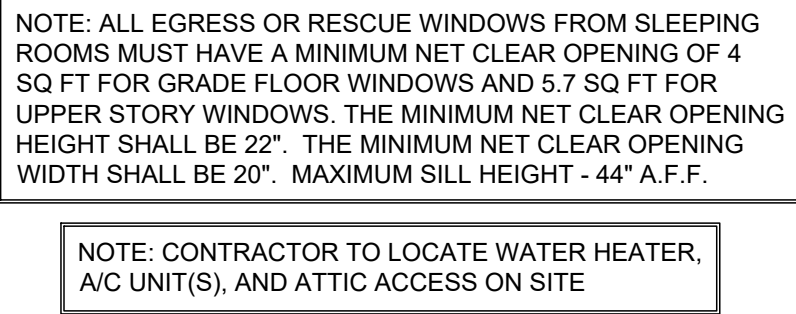
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CONSTRUCTION DEFECTS OR OTHER
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ALL DIMENSIONS ARE CORRECT AND
ENVIRONMENTAL REGULATIONS HAVE
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OCCUR, IT IS THE SOLE RESPONSIBILITY OF
THE CONTRACTOR AND/OR OMISSION AT HIS
OWN EXPENSE AND NOT THE
RESPONSIBILITY OF MADDEN HOME
DESIGN. CONTRACTOR IS RESPONSIBLE FOR
VERIFICATION OF DIMENSIONS IN THE FIELD
AND SHALL BUILD HOME IN ACCORDANCE
WITH THE INTERNATIONAL RESIDENTIAL CODE
2015.



NOTE: VENT CRAWLSPACE PER
LOCAL CODES AND REQUIREMENTS

A4.0



<u>HEATED SQUARE FOOTAGE</u>	
First Floor	3152
TOTAL HEATED	3152
<u>UNHTD SQUARE FOOTAGE</u>	
Garage	1100
Front Porch	509
Rear Porch	697
TOTAL UNHEATED	2306
<u>TOTAL SQ FT</u>	<u>5458</u>

NOTE:
SEE ELEVATIONS FOR
WINDOW HDR HGTS

NOTE:
ALL DOORS ARE 8'-0"
TALL UNO

NOTE:
ALL EXTERIOR WALLS
ARE NOMINAL 4" UNO

NOTE:
ALL INTERIOR WALLS
ARE NOMINAL 4" UNO

NOTE:
ALL ANGLED WALLS
ARE 45° UNO

NOTE:
ALL DIMENSIONS ARE
FRAME TO FRAME

3/16" = 1'-0" CEILING HGT. = 10'-0"



FUTURE BONUS PLAN
 3/16" = 1'-0" CEILING HGT. = 8'-0"

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RESIDENCE OF

TAYLOR
SMITH

Project

MADDEN
HOME DESIGN

8375 Rushing Road
Denham Springs, Louisiana
70726
Phone: (225) 791-2912

Phone: (225) 791-2912

Project No.: The Meadow View

DATE: MAY 3, 2022

DRAWN BY: Steven Madden

DESIGNED BY: Steven Madder

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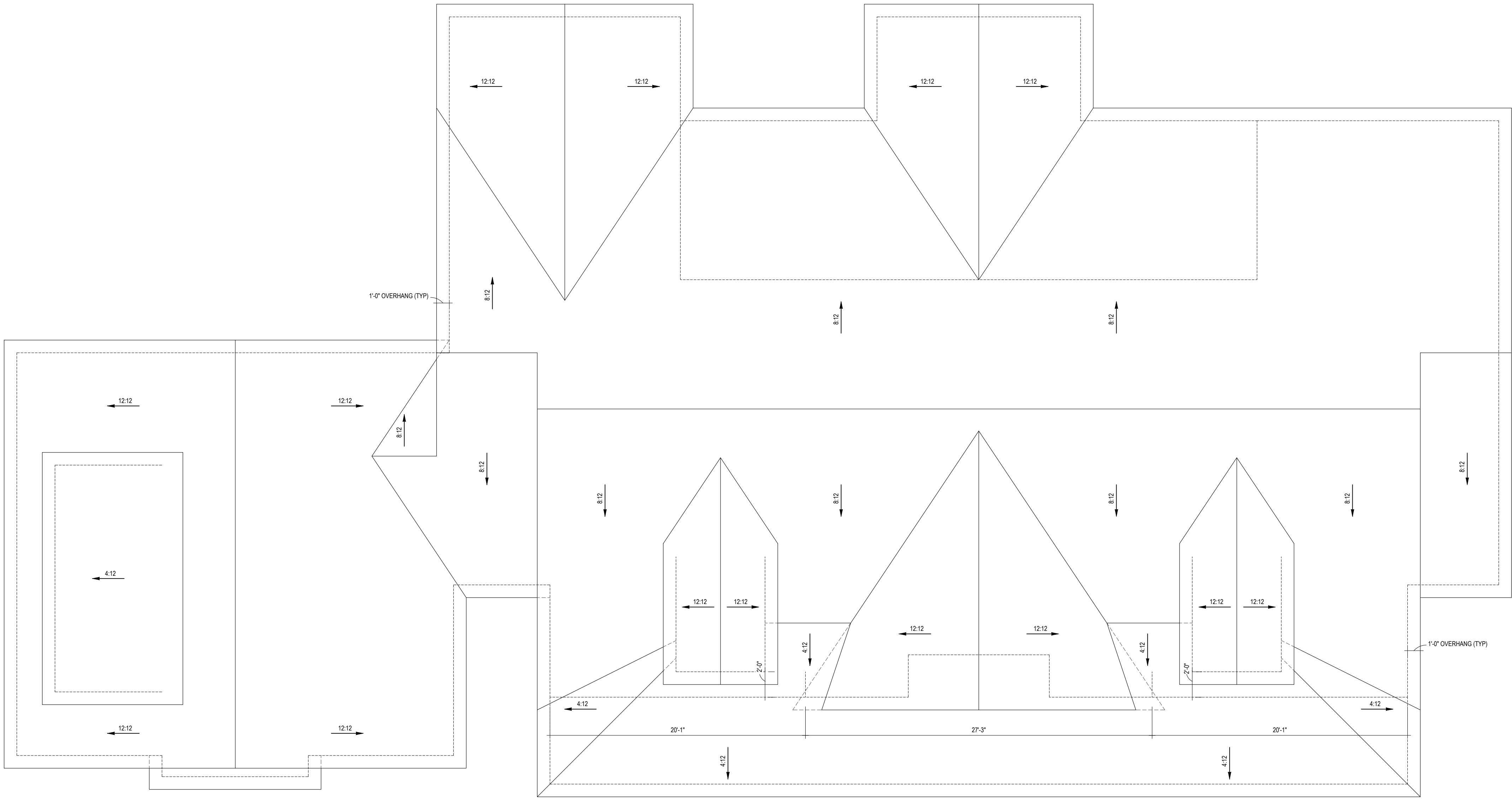
Sheet Title

FLOOR PLAN

- ☐ Preliminary Dwg.
- ☐ Bidding Doc.
- ☐ Construction Doc.

Sheet:

A1.0



ROOF PLAN

3/16" = 1'-0"

NOTE: SEE STRUCTURAL PLANS FOR
ATTIC VENTILATION CALCULATIONS

NOTE: OVERHANG DIMENSIONS ARE
FROM FRAMING

NOTE: ANY ROOF PITCH 4:12 OR LESS SHALL BE
PROPERLY WATERPROOFED PER BLDG. CODE

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ROOF PLAN

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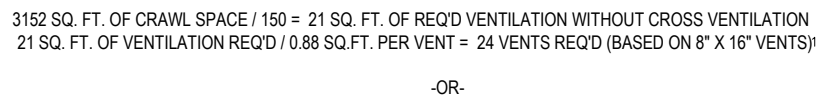
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SHOULD NOT BE USED FOR ARCHITECTURAL
OR ENGINEERING DESIGN. ANY USE OF
OR ARCHITECTURAL DESIGN, INTERIOR
OR EXTERIOR DESIGN, OR ANY OTHER
ALL DIMENSIONS ARE CORRECT AND
ENVIRONMENTAL REGULATIONS HAVE
MET. IF AN ERROR OR OMISSION DOES
OCCUR, IT IS THE SOLE RESPONSIBILITY OF
THE CONTRACTOR AND/OR OMISSION AT HIS
OWN EXPENSE AND NOT THE
RESPONSIBILITY OF THE DRAFTING SERVICE.
CONTRACTOR IS RESPONSIBLE FOR
VERIFICATION OF DIMENSIONS IN THE FIELD
AND SHALL BUILD HOME IN ACCORDANCE
WITH THE INTERNATIONAL RESIDENTIAL CODE
2015.


- 1) **STRUCTURAL NOTES:**
 - a) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE. IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
 - b) ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED. ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION TYPICAL.
 - c) ENGINEERING A DESIGN PLAN IS NOT RESPONSIBLE FOR DIMENSIONS. DIMENSIONS OF FOOTING ELEVATIONS SHALL BE TO CONSTRUCTION BENCH.
 - d) ALL LUMBER SHALL BE SYP #2 (X) LUMBER.
 - e) ALL DIMENSIONS SHALL BE 1/2" TOLERANCE. (EACH SINGLE MEMBER AND E-LEVELS MICROFILM)
 - f) ALL LUMBER TO BE 1" OR GREATER (5/8" P = 2325 PSI) (OR GREATER)
 - g) ALL LUMBER TO BE 1" OR GREATER (3/4" P = 2400 PSI) (OR GREATER)
 - h) ALL EXTERIOR EXTERIOR WALLS SHALL BE 8" MINIMUM THICKNESS (2" D15/W/1" (1/4" JAIL JACK STUD IN) AND KING STUDS PER TABLE B602.7.5 AND TOGETHER W/ 2" (1/4" N6) AND 3" O.C. PROVIDED THAT THE TOP OF THE WALL SHALL BE 8" MINIMUM THICKNESS. (2" D15/W/1" (1/4" JAIL JACK STUD IN) AND KING STUDS PER TABLE B602.7.5 AND TOGETHER W/ 2" (1/4" N6) OTHERWISE REFER TO TABLES B602.7.1 AND B602.7.2)
 - i) ALL INTERIOR LOAD BEARING HEADERS TO BE 2" (X) (1/4" N6) REFER TO TABLE B602.7.1 AND B602.7.2 FOR ALL JOIST AND RUMBER REQUIREMENTS FOR HEADERS SPAN FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UN)
 - j) REFER TO 2018 NC BUILDING CODE SECTION B602 FOR CONSTRUCTION OF ALL WALLS OVER 10' IN HEIGHT.
 - k) STRUCTURAL WALL SHALL BE 8" MINIMUM THICKNESS AGED GRADE S50 F = 55 KSI MINIMUM
 - l) ALL EXTERIOR WALLS TO BE 8" MINIMUM THICKNESS CONCRETE OR ALL CONCRETE E = 3000 PSI MIN
 - m) PRESUMPTIVE BEARING CAPACITY = 2000 PSF
 - n) 1" TOP ANCHOR 13 SPACING SHALL BE 12" MAXIMUM 6" O.C. AND NO MORE THAN 2' FROM THE CORNER. THERE SHALL BE A MINIMUM OF 20 BOLT PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3" O.C. FROM CORNER AND ANCHOR BOLTS SHALL BE 1/2" DIA. CONCRETE OR MASONRY.
 - o) ALL WALLS TO BE DESIGNED WITH MAX. HEIGHT OF 9' 0" UNLESS OTHERWISE NOTED.
 - p) PROVIDE A MINIMUM OF 500R UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF POWER COLUMNS (UN)
 - q) PROVIDE ANCHOR BOLTS PER TABLE SECTION B02.10.3 OF THE 2018 NCRC.
 - r) MINIMUM MASONRY PER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
 - s) UPLIFT LOAD GREATER THAN 5000 PSF SHALL BE CONTINUOUSLY ANCHORED TO FOUNDATION.
 - t) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

- 1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS SET FORTH IN THE CITY OF CHICAGO'S ORDINANCES AND CODES, IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
- 2) IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. ENGINEERING & DESIGN, P.A. IS NOT RESPONSIBLE FOR DIMENSIONS AND LOCATIONS OF EXISTING UTILITIES OR CONSTRUCTION BEING IN ALL DIMENSIONS.
- 3) ALL UMLR SHALL BE 5" BY 12" UNIFORM.
- 4) ALL UMLR TO BE 17" WIDE (ACTUAL) EACH SINGLE MEMBER AND 1/4" MIN. SPACING.
- 5) (I.E. LEVEL MICROALM)
- 6) ALL UMLR TO BE 1/2" (SEE FR = 2325 PSF) (OR GREATER)
- 7) ALL UMLR TO BE 1/2" (SEE FR = 2400 PSF) (OR GREATER)
- 8) ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 W/ (2) 1x4 JACK STUD (UNCL) AND KING STUDS PER TABLE 7.5.2 AND 7.5.3 (UNCL) TO NAIL TO 1/2" MIN. LVL. SUCH THAT THE TOP OF WINDOW HEIGHT IS 6" FROM MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 12" FROM REFER TO TABLE 7.5.2 FOR MORE INFORMATION.
- 9) ALL INTERIOR LOAD BEARING ARE TO BE (2) 2x10 (UNCL) REFER TO TABLE 7.5.2(1) AND 7.5.2(2) FOR JOCK STUD REQUIREMENTS
- 10) REFER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNCL)
- 11) REFER TO 2018 NBC BUILDING CODE SECTION 8.6.2 FOR CONSTRUCTION OF EXTERIOR WALLS
- 12) ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50
F_y = 50 KSI MINIMUM
ALL EXTERIOR LUMBER TO BE 6" BY 12" PT
ALL CONCRETE = 4" 3000 PSI
PRESUMPTIVE WIND LOAD = 150 PSF
12" ANCHOR BOLTS SPACED AT MAXIMUM OF 6" O.C. AND NO MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER ANCHOR. ANCHOR BOLTS SHALL BE 1/2" DIA. 3000 PSI STEEL FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- 13) ALL JOISTS DESIGNED WITH MAX. HEIGHT OF 9" UNCL.
PROVIDE A MINIMUM OF FOUR UPLIFT LATERAL CONNECTIONS TO TOP AND BOTTOM OF CORNER COLUMNS. (UNCL)
- 14) ALL EXTERIOR SHEET PILING SHALL BE SECTION 603.3 OF THE 2018 NRC.
- 15) ALL MASONRY PER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- 16) UPLIFT LOADS GREATER THAN 500 LB SHALL BE PROVIDED UPLIFT ANCHORED TO THE FOUNDATION.
- 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.



1) VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON PLAN. HOWEVER VENTS SHALL BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS AND TO PREVENT DEAD AIR POCKETS.

2) THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 OF THE GROSS FLOOR AREA WHERE THE REQUIRED OPENINGS ARE PLACED AS TO PROVIDE CROSS VENTILATION OF THE CRAWL SPACE. THE INSTALLATION OF OPERABLE VENTS SHALL BE INCORPORATED. ONE FOUNDATION VENT SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING TO PROVIDE NATURAL VENTILATION WHEN THE CRAWL SPACE IS BUILT ON A SLOPED SITE. THE UPPER FOUNDATION VENTS MAY BE CONSIDERED WITHOUT WALL VENT OPENINGS. VENT DAMPS SHALL BE PROVIDED WHEN THE BOTTOM OF THE FOUNDATION VENT OPENING IS LESS THAN 4 INCHES ABOVE THE FINISHED EXTERIOR GRADE.

NO SCALE 

$$\underline{3/16'' = 1'-0''}$$

FILENAME: \\A:\AUDIT\OFFICE\2022\PROJECTS\001_TYNDALE\ASHLYN_SMITH\CAD_FILES\DRB2201-001_1.DWG - COPY/DWG SAVED BY: SMWESH LAST PLOT DATE: 4/22/2025 11:46 AM

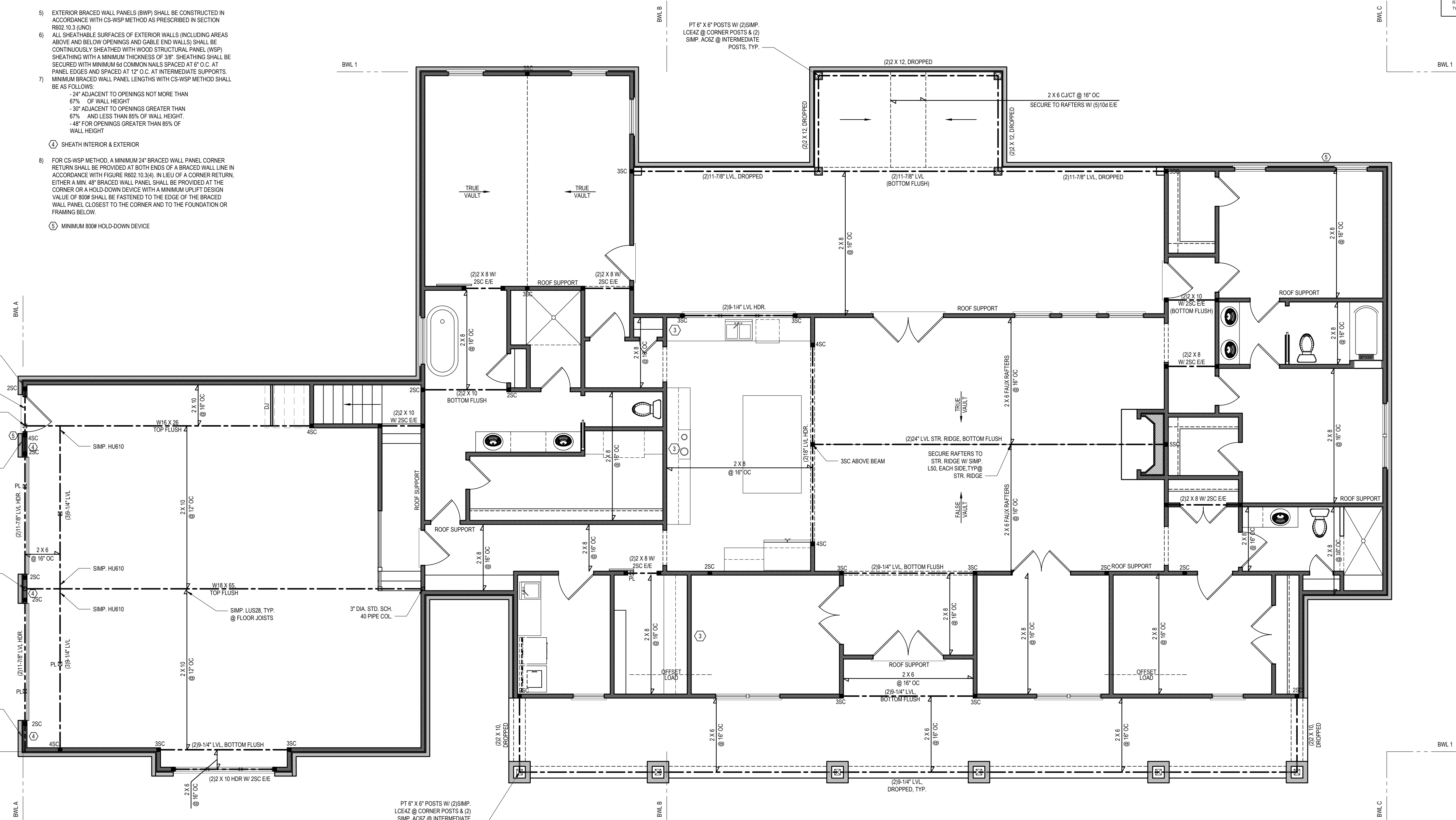
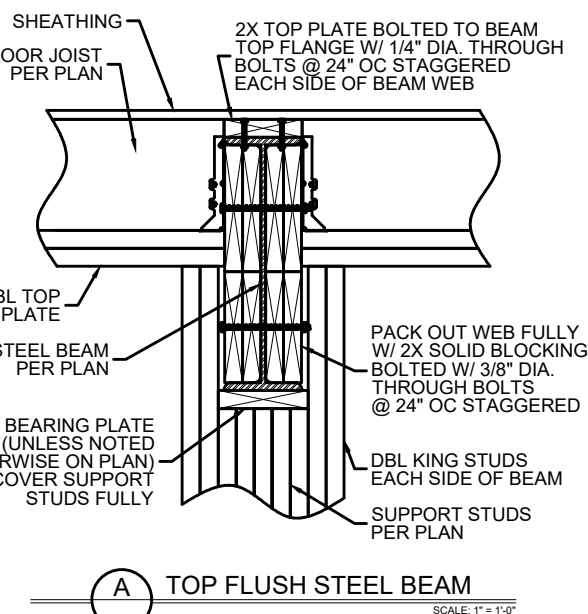
DESIGN LOADS				
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
			LL	TL
FLOOR (primary)	40	10	L/260	L/240
FLOOR (secondary)	40	10	L/260	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/260	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALE ENGINEERING & DESIGN, P.A. IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL LUMBER SHALL BE SYP #2 (UNO)
- ALL LVL LUMBER TO BE 1.75" WIDE (ACTUAL) EACH SINGLE MEMBER AND $F_b = 2600$ PSI, $E = 1.8M$ PSI (OR GREATER)
- ALL LVL LUMBER IS TO BE 156E ($F_b = 2325$ PSI) (OR GREATER)
- ALL PSL LUMBER IS TO BE 18E ($F_b = 2400$ PSI) (OR GREATER)
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (UNO) AND KING STUDS PER TABLE R602.10.3, AND TOGETHER w/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6" MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1" MIN. OTHERWISE REFER TO TABLES R602.11) AND R602.12).
- ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (UNO). REFER TO TABLES R602.11) AND R602.12) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO).
- REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10' IN HEIGHT.
- ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50
- $F_y = 50$ KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE 16" MIN. THICK
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 1/2" ANCHOR BOLTS SPACED AT MAXIMUM OF 6" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
- PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS (UNO)
- PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.3 OF THE 2018 NCRC.
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

STRUCTURAL SHEATHING NOTES

- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10.2 OF THE 2018 NCRC.
- BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
- REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
- INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)
- 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ #6 COOLER NAILS (OR EQUAL, PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS
- 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE w/ #6 COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM #6 COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS
- MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS:
 - 24" ADJACENT TO OPENINGS NOT MORE THAN 67% OF WALL HEIGHT
 - 24" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT
 - 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT
- SHEATH INTERIOR & EXTERIOR
- FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602.10.3.4). IN LIEU OF A CORNER RETURN, EITHER A MIN. 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.
- MINIMUM 800# HOLD-DOWN DEVICE



FIRST FLOOR PLAN

3/16" = 1'-0"

NOTE: ADDITIONAL JOISTS

INSTALL AN ADDITIONAL JOIST UNDER NON-LOAD BEARING WALLS, BUILT-INS, AND CABINETS ABOVE THAT ARE PARALLEL TO THE FRAMING SYSTEM ON THIS PAGE. TYP. UNO. BUILDER TO INSTALL AS REQUIRED. VIF DIMENSIONS

BRACING PANEL LENGTHS REQUIRED:

BWL A = 8.5 FT
BWL B = 10.0 FT
BWL C = 9.5 FT
BWL 1 = 9.1 FT

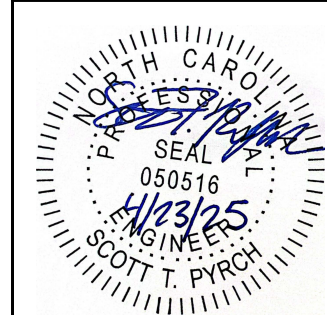
BRACING PANEL LENGTHS REQUIRED:

BWL A = 10.0 FT CS-WSP
BWL B = 20.0 FT CS-WSP
BWL C = 31.0 FT CS-WSP
BWL 1 = 83.5 FT CS-WSP
BWL 2 = 83.5 FT CS-WSP

KING STUD SCHEDULE		
HEADER SPAN (FT)	MIN. # OF FULL HEIGHT STUDS (KING) E.E. SF. OPENINGS PER WALL DEPTH	
	2 X 4 STUD WALL	2 X 6 STUD WALL
UP TO 3'-0"	1	1
3'-1" TO 6'-0"	2	1
6'-1" TO 9'-0"	3	2
9'-1" TO 12'-0"	4	2
12'-1" TO 15'-0"	5	3
15'-1" TO 18'-0"	6	3

NOTES:
1. TABLE DENOTES REQUIRED MINIMUM NUMBER OF STUDS E.E. OF HEADER, TYP. UNO. ON PLANS.
2. NUMBER OF KING STUDS LISTED ABOVE ARE BASED ON NOMINAL WALL HEIGHT. STUD SPACING OF 16" O.C. AND LARGER SPACING OF 20" MPY EXPOSURE B.
3. HEADER SPANS IN TABLE ARE BASED ON JOIST OPENINGS. INTERPOLATION BETWEEN SPAN VALUES IS PERMITTED. ROUNDED UP NUMBER OF KING STUDS. EXTERIOR JOIST OR PROHIBITED CONTACT.
4. TYNDALE ENGINEERING AND DESIGN IF HEADER SPANS EXCEED TABLE VALUES.

*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
Any deviation or discrepancies on plans are to be brought to the immediate attention of Tynndale Engineering & Design, P.A. Failure to do so will void Tynndale Engineering & Design, P.A. liability.
*Please review these documents carefully. Tynndale Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.



Client: ASHTYN SMITH
Project: SMITH RESIDENCE

1ST FLOOR HEADER 2ND FLOOR FRAMING

Project #: DRB2201-0061_B
Date: 10/28/2024
Engineered by: SMH/HJS
DWG. Checked by: PAT
Scale: SEE PLAN

REVISIONS

No.	Date	Remarks
1	4/23/2025	REAR PORCH VAULT
2		
3		
4		

Sheet Number

S2

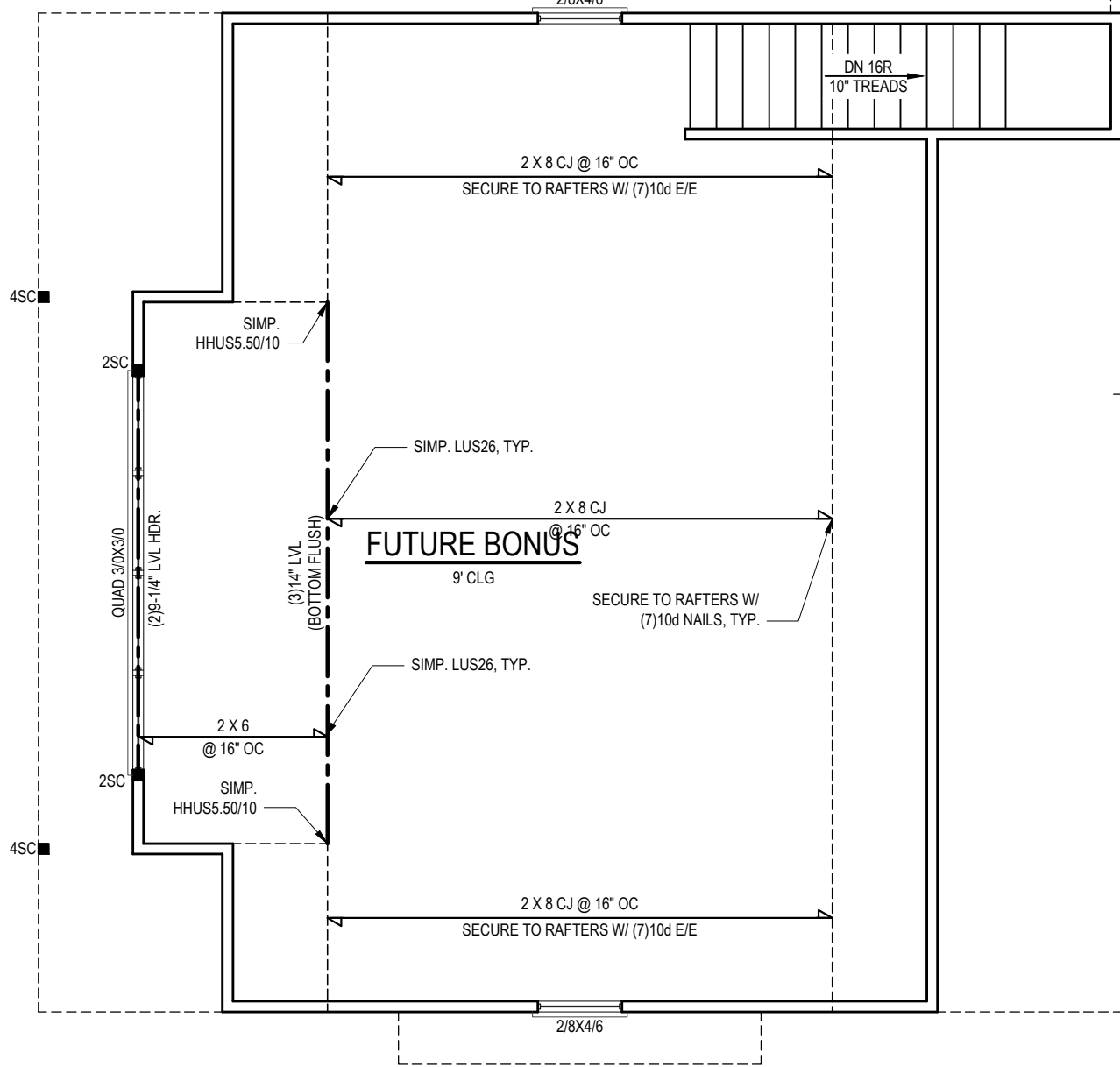
2 of 6

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- DESIGNED FOR SEISMIC ZONE 4 AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION 802.10 OF THE 2018 IRC REQUIREMENTS.
- BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3.
- SUPPORT OF BRACED PANEL 10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
 - REFERENCE FIGURE R602.10.4.3 OF THE 2018 IRC.
- INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS DESCRIBED IN SECTION 802.10.1 (UNO).
 - 12" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING)
SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED @ 17" O.C. AT PANEL EDGES AND TOP AND BOTTOM PLEATS AT 12" O.C. AT INTERMEDIATE SUPPORTS.
 - 3/8" WOOD STRUCTURAL PANEL (SWP) SECURE w/ 6d COMMON NAILS SPACED AT 7" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH W-SP METHOD AS PRESCRIBED IN SECTION 802.10.1 (UNO).
- ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE SHEATHED WITH SHEATHING MATERIAL OR WOOD STRUCTURAL PANEL SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM 6d COMMON NAILS SPACED AT 7" O.C. AT PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS. MINIMUM BRACED WALL PANEL LENGTHS WITH W-SP METHOD SHALL BE AS FOLLOWS:
 - 24" ADJACENT TO OPENINGS NOT MORE THAN 67% OF WALL HEIGHT
 - 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 80% OF WALL HEIGHT
 - 48" FOR OPENINGS GREATER THAN 80% OF WALL HEIGHT
- SECHS INTERIOR & EXTERIOR
- FOR SCREW INTERIOR, A MINIMUM 2x BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ORDER TO PROVIDE FULL EFFECTIVE CORNER BRACING. A CORNER RETURN EITHER A MIN. 4x BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN CAPACITY SHALL BE ACCEPTED. THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.
- MINIMUM ROOF HOLD-DOWN DEVICE

NOTES:

- a. TABLE DEVOTES REQUIRED MINIMUM NUMBER OF STUDIES OF HEADER, TYPING ON PLANS
- b. NUMBER OF KING STUDS LISTED ABOVE ARE BASED 17 NOMINAL WALL HEIGHT, STUD SPACING OF 16" O.C. AND ULTIMATE WIND SPEED OF 120 MPH (EXPOSURE B)
- c. HEADER SPANS IN TABLE ARE BASED ON ROUGH OPENINGS; INTERPOLATION BETWEEN SPAN VALUES IS PERMITTED, ROUND UP NUMBER OF KING STUDS, EXTRAPOLATION IS PROHIBITED. CONTACT TYNDALE ENGINEERING AND DESIGN IF HEADER SPANS EXCEED TABLE VALUES



3/16" = 1'-0"



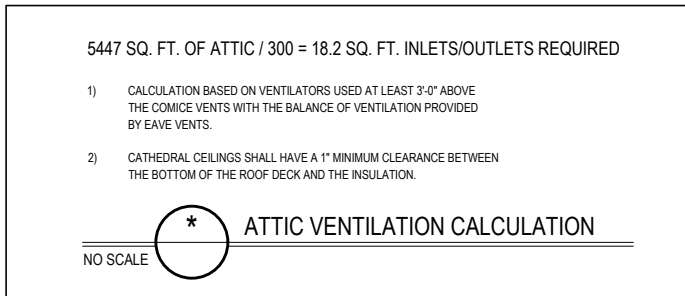
ROOF PLAN

REVISIONS		
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1	4/23/2025	REAR PRCH VAULT
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ROOF PLAN



B4: MASONRY STEM WALL SUPPORTING BRACED WALL PANELS

FIGURE R602.10.4.3 OF THE 2018 NCRC
NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS

