

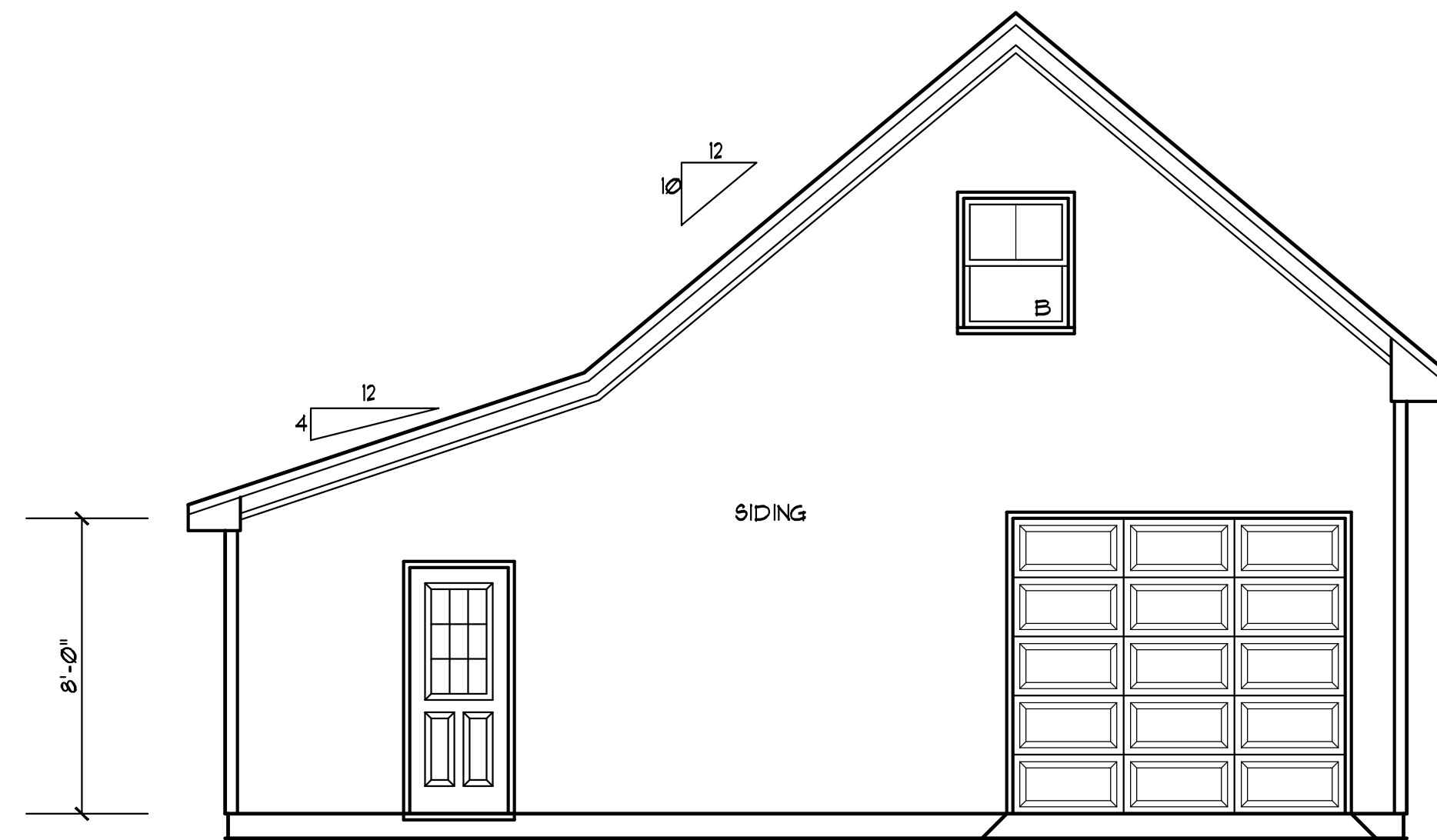
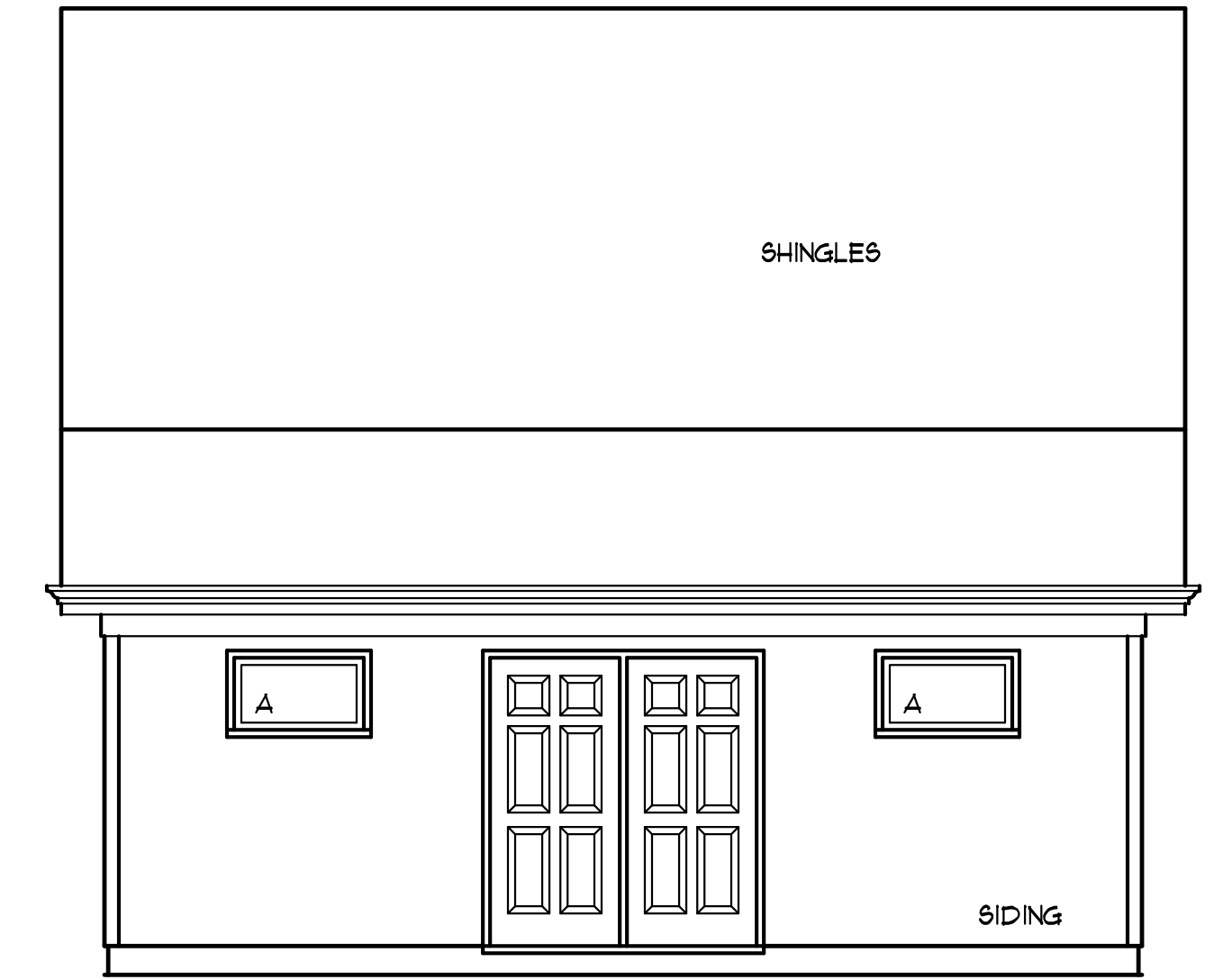
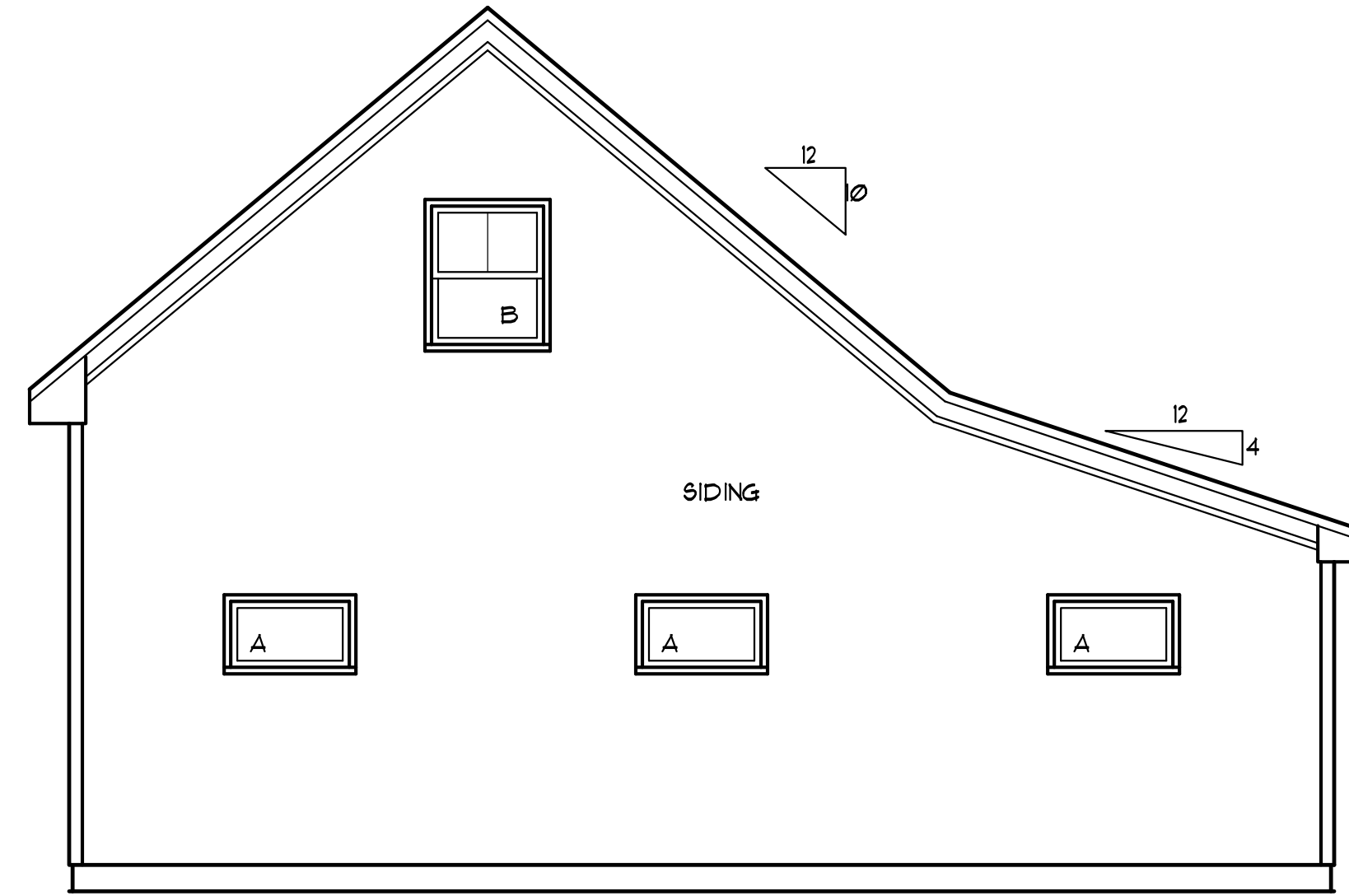
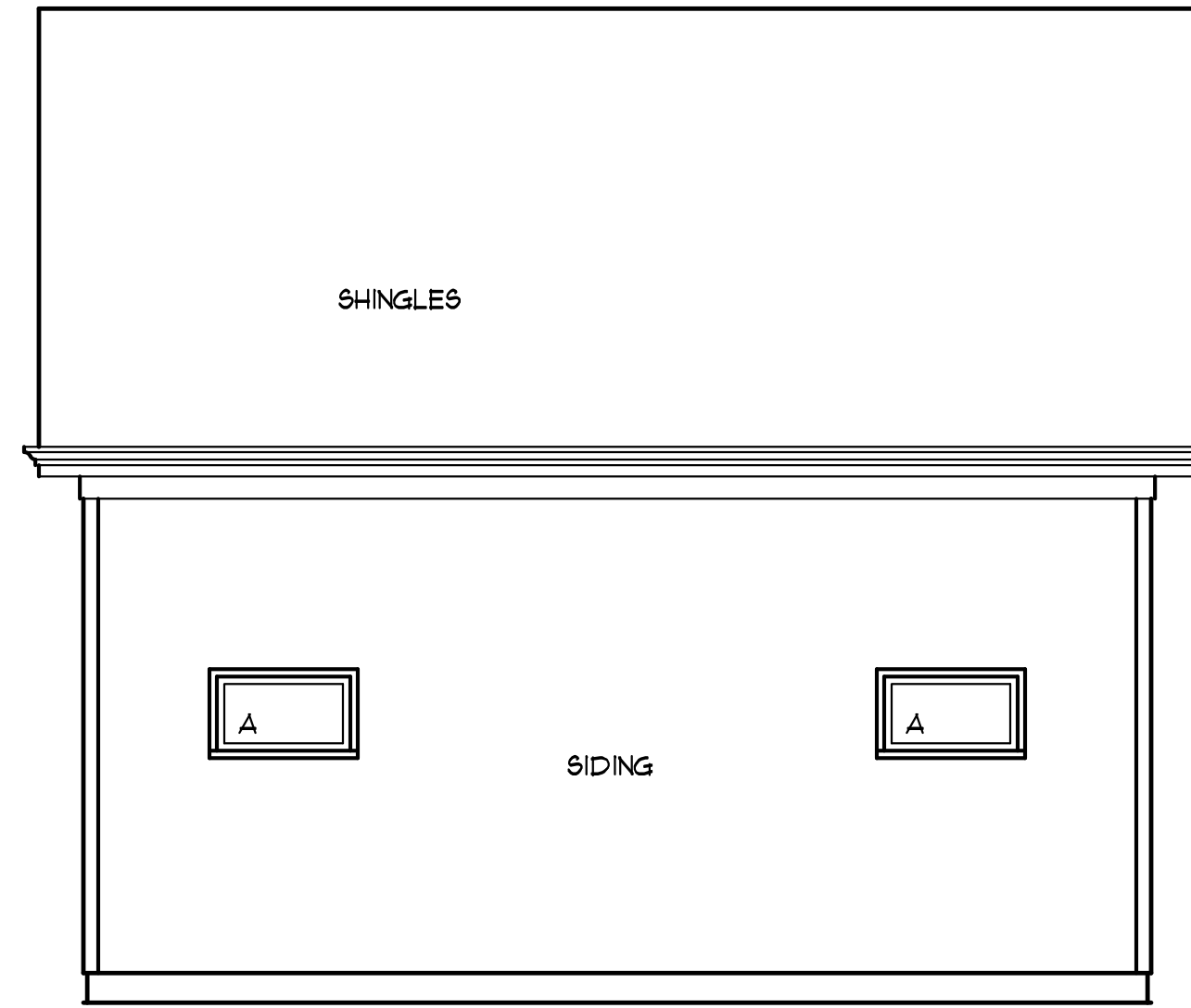
BUILDER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT TIME OF CONSTRUCTION.

ALL CONSTRUCTION SHALL CONFORM TO THE 2018 EDITION OF THE NC STATE BUILDING CODE.

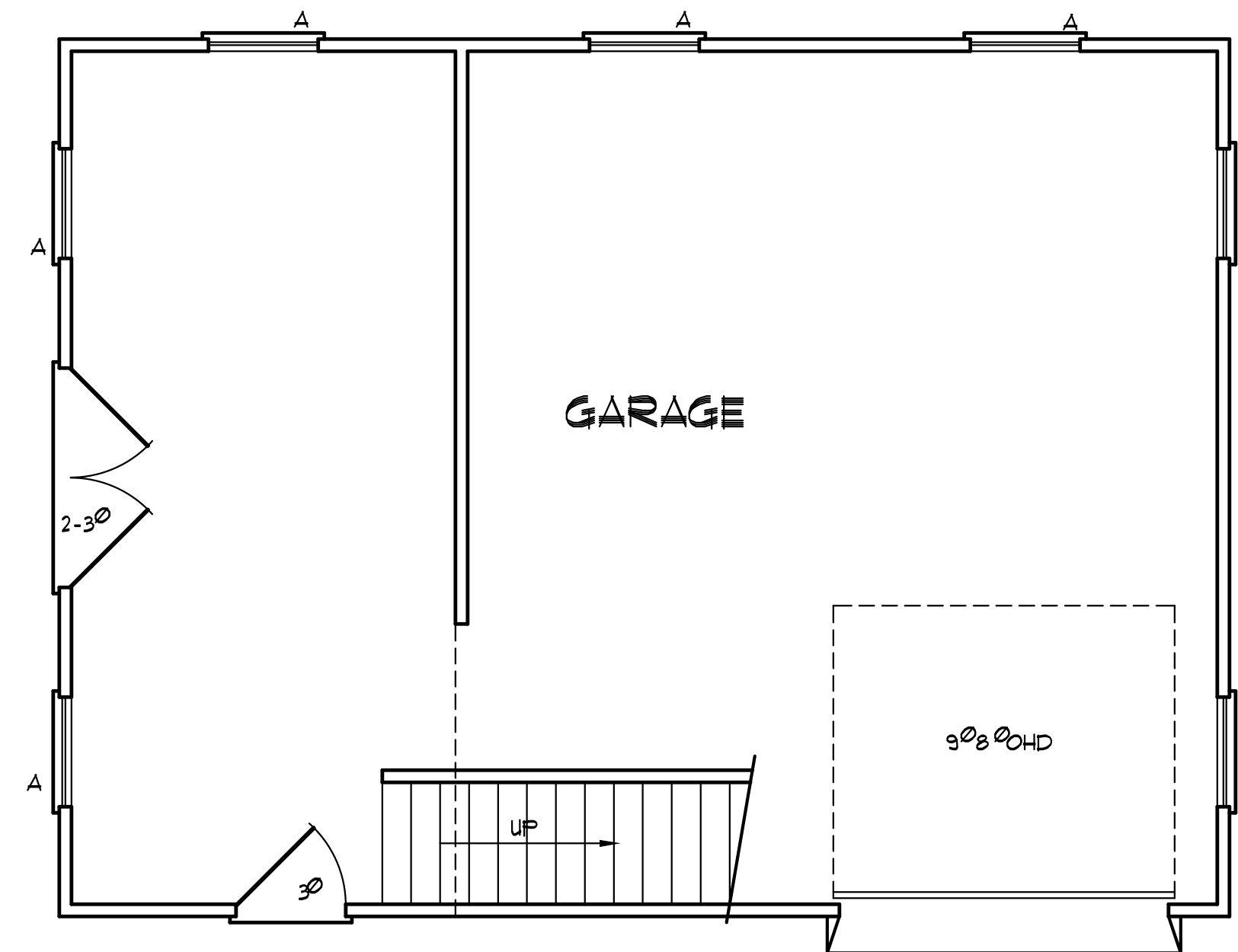
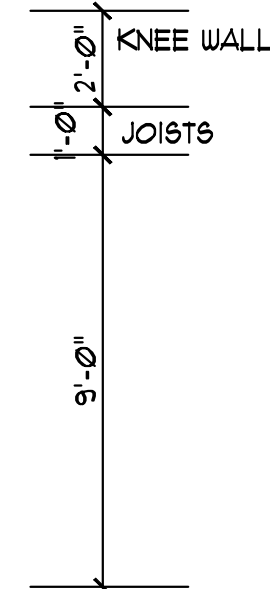
CODES GOVERN OVER DRAWINGS.
DIMENSIONS GOVERN OVER SCALE.

VERIFY ALL MECHANICAL REQUIREMENTS BEFORE FRAMING.

YUNCANNON DESIGNS DOES NOT ASSUME LIABILITY FOR ANY DEVIATION OF OR CONSTRUCTION METHODS OF THESE PLANS.

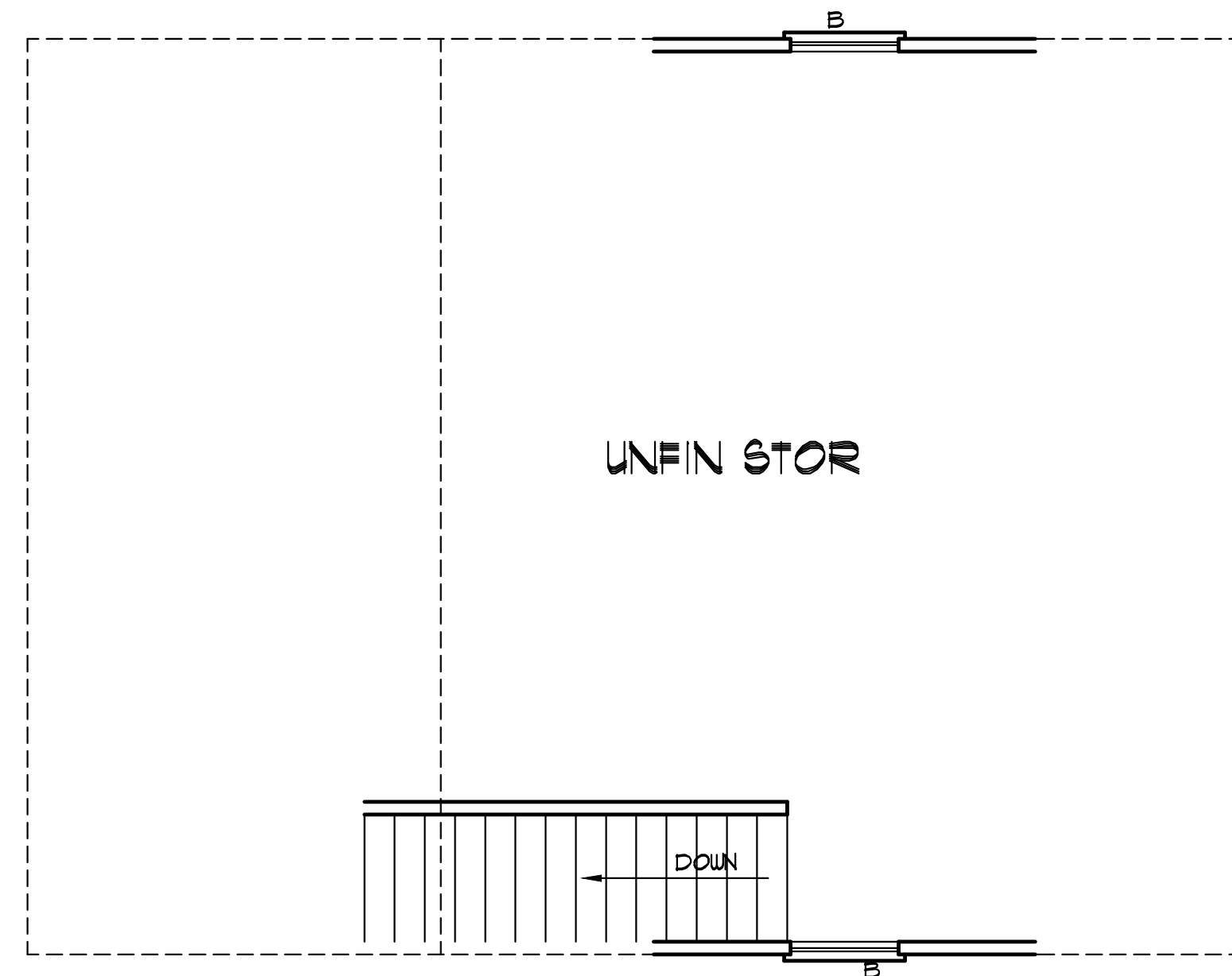


ELEVATIONS
SCALE: 1/4" = 1'-0"



FLOOR PLAN
SCALE: 1/4" = 1'-0"

GARAGE AREA: 168 SQ. FT.





FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code.

09/16/2024

DETACHED GARAGE ONLY

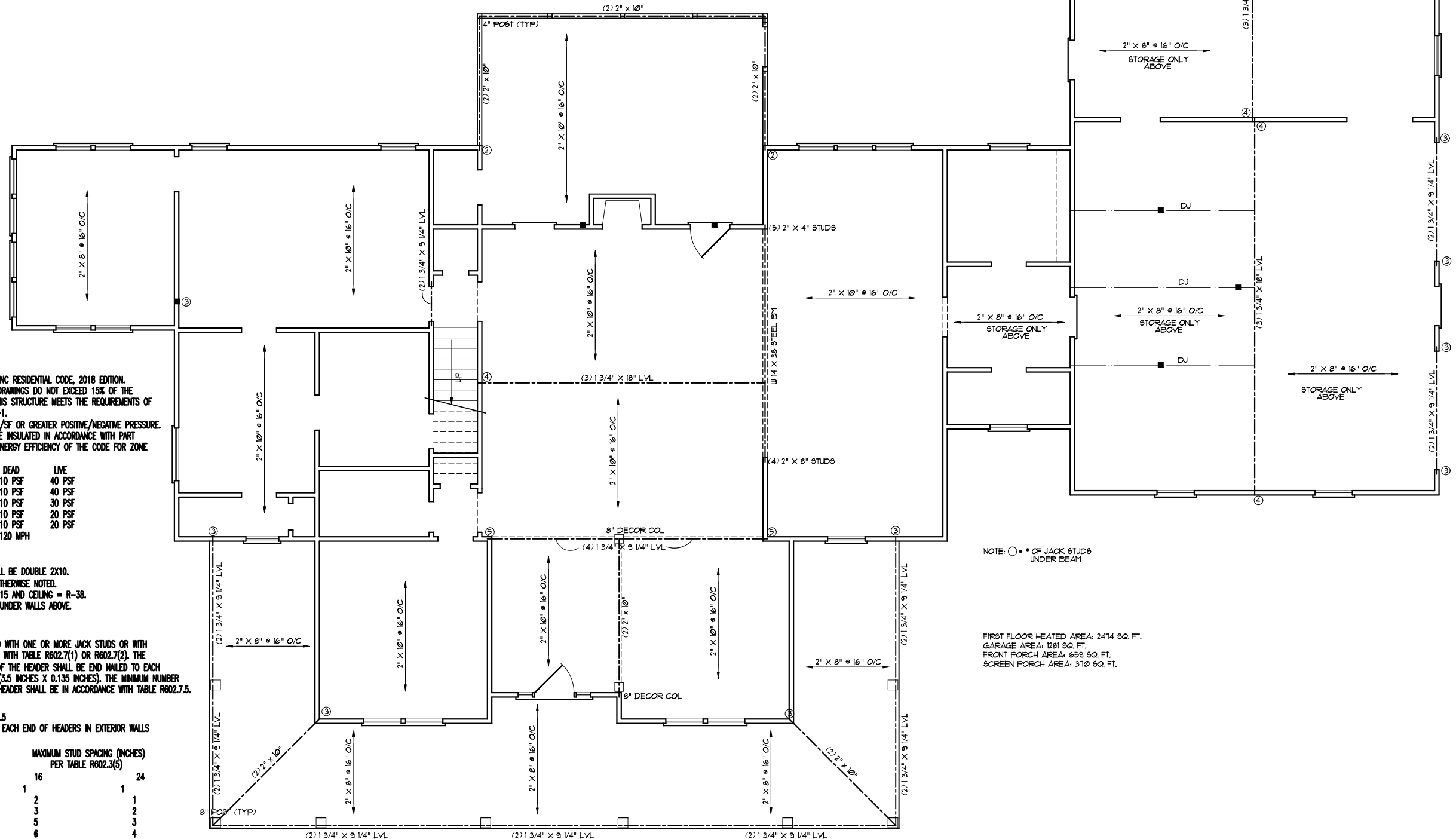
Rick & Jannice Weber
Mamie Upchurch Road
Lillington, NC

YUNCANNON DESIGNS
CUSTOM HOME PLANS
FISQUAT-VARINA, NC • (919) 421-1314

DRAWN BY : WRY
CHK'D BY : WRY
DATE : 04/24/24
REVISIONS :
09/09/24

SHEET
A-5

Plan No. 3480-20



FIRST FLOOR HEATED AREA: 2474 SQ. FT.
 GARAGE AREA: 1281 SQ. FT.
 FRONT PORCH AREA: 659 SQ. FT.
 SCREEN PORCH AREA: 310 SQ. FT.

GENERAL FRAMING NOTES:

- THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
- GLAZING AREAS SHOWN ON THESE DESIGN DRAWINGS DO NOT EXCEED 15% OF THE GROSS AREA OF THE EXTERIOR WALLS. THIS STRUCTURE MEETS THE REQUIREMENTS OF N1101.2.1, RESIDENTIAL BUILDING, TYPE A-1.
- WALL CLADDING IS DESIGNED FOR A 24.1 #/SF OR GREATER POSITIVE/NEGATIVE PRESSURE.
- ALL WALLS, FLOORS AND CEILINGS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER 11, ENERGY EFFICIENCY OF THE CODE FOR ZONE 7 (TABLE N1101.2).
- DESIGN CRITERIA

	DEAD	LIVE
PRIMARY FLOOR	10 PSF	40 PSF
SECONDARY FLOOR	10 PSF	40 PSF
SLEEPING AREAS	10 PSF	30 PSF
ATTIC	10 PSF	20 PSF
ROOF	10 PSF	20 PSF
WIND		120 MPH
- DEFLECTION LIMITS FLOOR - L/360 (LIVE LOAD ONLY) ROOF - L/240
- ALL HEADERS IN LOAD BEARING WALLS SHALL BE DOUBLE 2X10.
- ALL WALLS ARE 2X4 @ 16" O.C. UNLESS OTHERWISE NOTED.
- FLOOR INSULATION = R-19, EXTERIOR = R-15 AND CEILING = R-38.
- PROVIDE DOUBLE FLOOR JOISTS OR TRUSS UNDER WALLS ABOVE.

R602.7.5 SUPPORTS FOR HEADERS:

HEADERS SHALL BE SUPPORTED ON EACH END WITH ONE OR MORE JACK STUDS OR WITH APPROVED FRAMING ANCHORS IN ACCORDANCE WITH TABLE R602.7(1) OR R602.7(2). THE FULL-HEIGHT STUD ADJACENT TO EACH END OF THE HEADER SHALL BE END NAILED TO EACH END OF THE HEADER WITH FOUR-16D NAILS (3.5 INCHES X 0.135 INCHES). THE MINIMUM NUMBER OF FULL-HEIGHT STUDS AT EACH END OF A HEADER SHALL BE IN ACCORDANCE WITH TABLE R602.7.5.

TABLE R602.7.5
 MINIMUM NUMBER OF FULL-HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN	MAXIMUM STUD SPACING (INCHES) PER TABLE R602.3(5)	
LESS THAN/EQUAL TO 3'	16	24
4'	2	1
8'	3	2
12'	5	3
16'	6	4

BRACED WALL NOTES:

- BRACED WALLS ARE REQUIRED PER SECTION R602.10.1 2018 NCBC RESIDENTIAL CODE.
- THE EXTERIOR WALL STRUCTURE SHALL BE CONTINUOUSLY SHEATHED, FULL HEIGHT WITH MIN. THICKNESS 7/16" OSB. THESE WALLS SHALL BE CONSTRUCTED IN CONFORMANCE TO TYPE CS-WSP DETAILS.
- BASIS OF DESIGN FOR INTERIOR BRACE WALLS IS GYPSUM BOARD METHOD AS DETAILED PER CODE TABLE R602.10.2.
- SPECIAL BRACING DETAILS ARE ILLUSTRATED IN THE CODE AND ALLOWED WHERE WALLS DO NOT MEET THE MINIMUM REQUIREMENTS FOR SUPPORT. REFER TO GARAGE OPENING, PORTAL FRAMING DETAILS.

STRUCTURAL EVALUATION BY:
 HOWERTON SERVICES, PLLC
 3513 CATHEDRAL BELL ROAD RALEIGH, NC 27614
 LICENSE P-1716

* ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS.
 * ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO IMMEDIATE ATTENTION OF THE ENGINEER. FAILURE TO DO SO WILL VOID ENGINEER'S LIABILITY.
 * DO NOT SCALE THESE DRAWINGS - ENGINEERING APPROVAL EXPIRES 05/01/2025



S2 FIRST FLOOR FRAMING
 01 1/4"=1'-0"

Plan No. 3480-20

STRUCTURAL EVALUATION BY:
 HOWERTON SERVICES, PLLC
 3513 CATHEDRAL BELL RD., RALEIGH, NC
 27614

BUILDING DESIGN BY:
 YOUNGANNON DESIGNS

Rick & Janice Weber
 Mamie Upchurch Road
 Lillington, NC

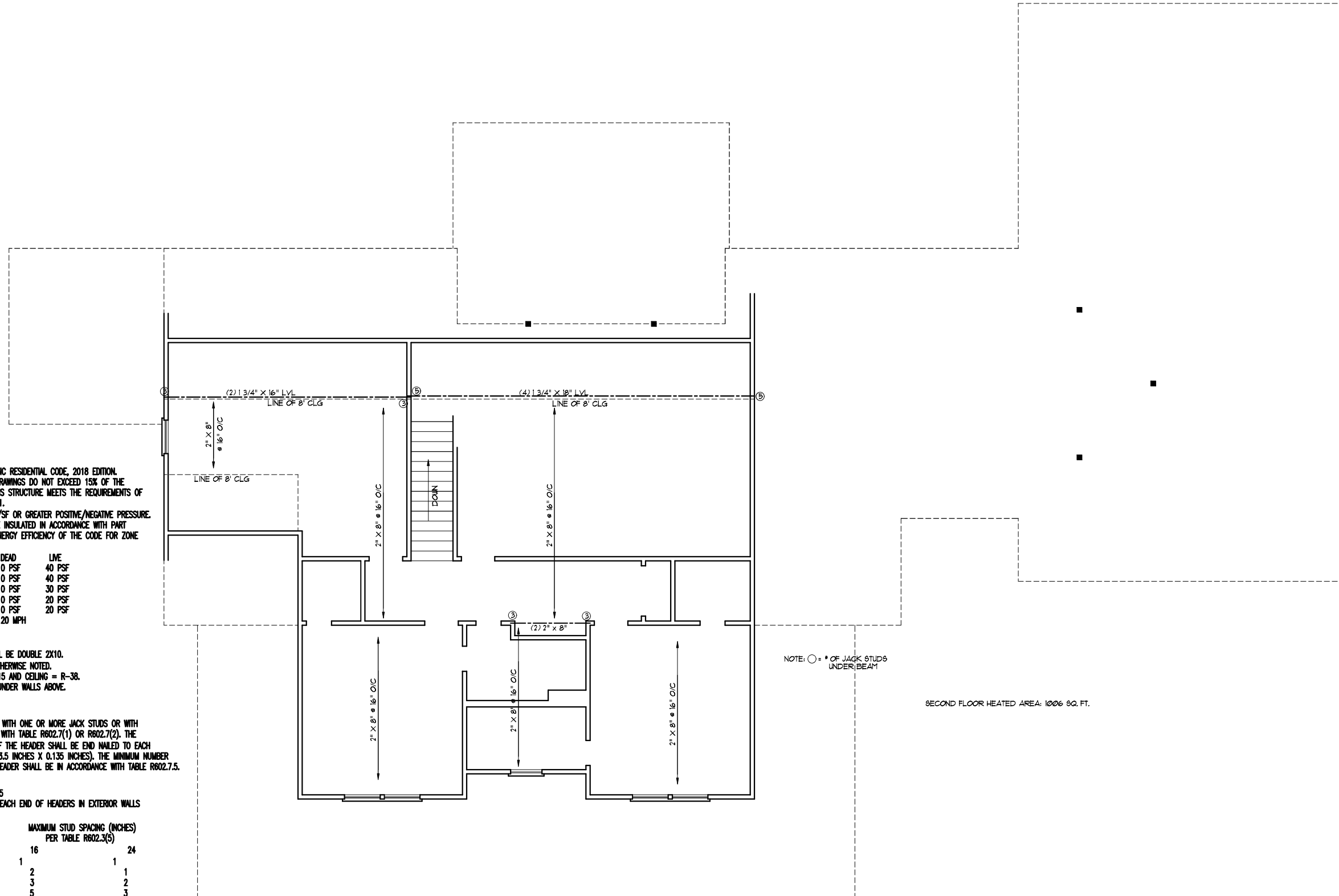
DESCRIPTION:
 MAIN LEVEL FLOOR FRAMING

REVISION:

DATE:
 04/23/2024

OWNER:

S2



GENERAL FRAMING NOTES:

- THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
- GLAZING AREAS SHOWN ON THESE DESIGN DRAWINGS DO NOT EXCEED 15% OF THE GROSS AREA OF THE EXTERIOR WALLS. THIS STRUCTURE MEETS THE REQUIREMENTS OF N1101.2.1, RESIDENTIAL BUILDING, TYPE A-1.
- WALL CLADDING IS DESIGNED FOR A 24.1 #/SF OR GREATER POSITIVE/NEGATIVE PRESSURE. ALL WALLS, FLOORS AND CEILINGS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER 11, ENERGY EFFICIENCY OF THE CODE FOR ZONE 7 (TABLE N1101.2).
- DESIGN CRITERIA

	DEAD	LIVE
PRIMARY FLOOR	10 PSF	40 PSF
SECONDARY FLOOR	10 PSF	40 PSF
SLEEPING AREAS	10 PSF	30 PSF
ATTIC	10 PSF	20 PSF
ROOF	10 PSF	20 PSF
WIND	120 MPH	
- DEFLECTION LIMITS FLOOR - L/360 (LIVE LOAD ONLY) ROOF - L/240
- ALL HEADERS IN LOAD BEARING WALLS SHALL BE DOUBLE 2X10.
- ALL WALLS ARE 2X4 @ 16" O.C. UNLESS OTHERWISE NOTED.
- FLOOR INSULATION = R-19, EXTERIOR -R-15 AND CEILING = R-38.
- PROVIDE DOUBLE FLOOR JOISTS OR TRUSS UNDER WALLS ABOVE.

R602.7.5 SUPPORTS FOR HEADERS:

HEADERS SHALL BE SUPPORTED ON EACH END WITH ONE OR MORE JACK STUDS OR WITH APPROVED FRAMING ANCHORS IN ACCORDANCE WITH TABLE R602.7(1) OR R602.7(2). THE FULL-HEIGHT STUD ADJACENT TO EACH END OF THE HEADER SHALL BE END NAIL TO EACH END OF THE HEADER WITH FOUR-16D NAILS (3.5 INCHES X 0.135 INCHES). THE MINIMUM NUMBER OF FULL-HEIGHT STUDS AT EACH END OF A HEADER SHALL BE IN ACCORDANCE WITH TABLE R602.7.5.

TABLE R602.7.5
MINIMUM NUMBER OF FULL-HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN	MAXIMUM STUD SPACING (INCHES) PER TABLE R602.3(5)	
	16	24
LESS THAN/EQUAL TO 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

BRACED WALL NOTES:

- BRACED WALLS ARE REQUIRED PER SECTION R602.10.1 2018 NCBC RESIDENTIAL CODE.
- THE EXTERIOR WALL STRUCTURE SHALL BE CONTINUOUSLY SHEATHED, FULL HEIGHT WITH MIN. THICKNESS 7/16" OSB. THESE WALLS SHALL BE CONSTRUCTED IN CONFORMANCE TO TYPE CS-WSP DETAILS.
- BASIS OF DESIGN FOR INTERIOR BRACE WALLS IS GYPSUM BOARD METHOD AS DETAILED PER CODE TABLE R602.10.2.
- SPECIAL BRACING DETAILS ARE ILLUSTRATED IN THE CODE AND ALLOWED WHERE WALLS DO NOT MEET THE MINIMUM REQUIREMENTS FOR SUPPORT. REFER TO GARAGE OPENING, PORTAL FRAMING DETAILS.

NOTE: ○ = * OF JACK STUDS UNDER BEAM

SECOND FLOOR HEATED AREA: 1006 SQ. FT.

STRUCTURAL EVALUATION BY:
HOWERTON SERVICES, PLLC
3513 CATHEDRAL BELL ROAD RALEIGH, NC 27614
LICENSE P-1716

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS.
- ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO IMMEDIATE ATTENTION OF THE ENGINEER. FAILURE TO DO SO WILL VOID ENGINEER'S LIABILITY.
- DO NOT SCALE THESE DRAWINGS - ENGINEERING APPROVAL EXPIRES 05/01/2025



S3 SECOND FLOOR FRAMING
01 1/4"=1'-0"

04/23/2024 EDT

Plan No. 3480-20

STRUCTURAL EVALUATION BY:
HOWERTON SERVICES, PLLC
3513 CATHEDRAL BELL RD., RALEIGH, NC
27614

BUILDING DESIGN BY:
YOUNGCANNON DESIGNS

Rick & Janice Weber
Mamie Upchurch Road
Lillington, NC

DESCRIPTION:
CEILING FRAMING
PLAN

REVISION:

DATE:
04/23/2024

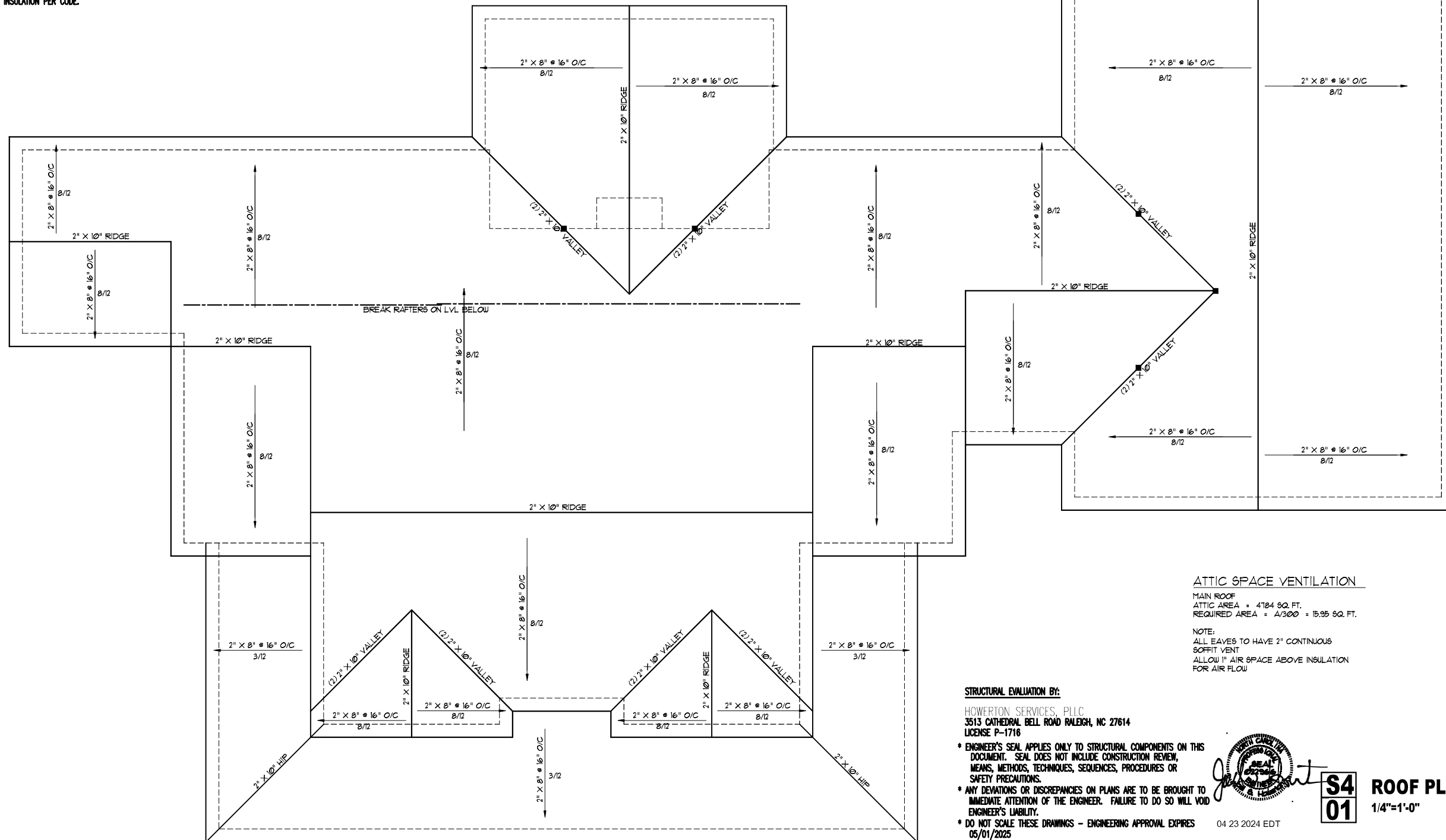
OWNER:

S3

GENERAL ROOF NOTES:

- THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
- ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
45.5 #/SF FOR ROOF PITCHES FROM 0 /12 TO 2.25 /12
34.5 #/SF FOR ROOF PITCHES FROM 2.25 /12 TO 7 /12
21 #/SF FOR ROOF PITCHES FROM 7 /12 TO 12 /12
- ALL ROOFING ELEMENTS SHALL MEET THE REQUIREMENTS OF CHAPTER 8 OF THE CODE.
- ALL LUMBER SHALL BE #2 SPF OR BETTER. RAFTERS MAY BE FINGER JOINTED PER NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, AND MUST HAVE THE STRUCTURAL CERTIFICATION STAMPED ON THE MEMBER.
- RAFTER SIZES, SPANS AND SPACING SHALL NOT EXCEED THE FOLLOWING:

SIZE	2X6	2X8	2X10
SPACING 12" O.C.	14'-9"	19'-6"	24'-10"
SPACING 16" O.C.	13'-5"	17'-9"	22'-3"
- ALL RAFTERS TO BE 2X8 @ 16" O.C. #2 SPF UNLESS NOTED OTHERWISE.
- 2-2X10 HIP S MAY BE SPLICED WITH A MIN. 6"-0" OVERLAP.
- PROVIDE DOUBLE RAFTER EACH SIDE OF DORMERS WITH DOUBLE HEADER.
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIP SIMPSON "H-5" OR EQUIVALENT. PROVIDE DOUBLE OPPOSING RAFTERS WHERE NOTED.
- 2X8 RAFTERS @ CATHEDRAL OR VAULTED CEILINGS TO BE FURRED DOWN 2" OR USE 2X10 RAFTERS FOR INSULATION PER CODE.
- PROVIDE 2X4 COLLAR TIES EVERY SECOND RAFTER (TYPICAL)
- PROVIDE 2X4 RAFTER TIES @ 32" O.C. (TYPICAL)
- FRAME RAFTERS ON 2X4 PLATE ON TOP OF CEILING JOISTS UNLESS NOTED OTHERWISE.
- SHINGLES ASSUMED TO BE 240 LB. FIBERGLASS, OR EQUAL. MINIMUM ROOF PITCH TO BE AS INDICATED ON ARCHITECTURAL PLAN SHEETS.
- PROVIDE DOUBLE LAYER OF ROOF FELT WHERE ROOF PITCH IS LESS THAN 4 /12.
- THESE DESIGN DRAWINGS WERE PRODUCED BY HOWERTON SERVICES, PLLC ASSUMES NO LIABILITY FOR THE CORRECTNESS OF ARCHITECTURAL FEATURES, DIMENSIONS OR FIXTURES.
- ALL HIP RIDGES AND VALLEYS SHALL BE DOUBLE 2X10 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR REVIEWING DRAWINGS FOR CONSTRUCTABILITY PRIOR TO BEGINNING CONSTRUCTION.
- VALLEY RAFTERS WITH SPANS LONGER THAN 15' SHALL BE LVL_s SUPPORTED AS NOTED. PROVIDE TEMPORARY STIFF KNEE SUPPORT UNTIL ALL SHEATHING AND RAFTER TIES/COLLARS ARE INSTALLED.
- DO NOT SCALE THESE DRAWINGS. IF DISCREPANCIES ARE NOTED, CONTACT THE ENGINEER.



ATTIC SPACE VENTILATION

MAIN ROOF
ATTIC AREA = 4184 SQ. FT.
REQUIRED AREA = A/300 = 13.95 SQ. FT.

NOTE:
ALL EAVES TO HAVE 2" CONTINUOUS SOFFIT VENT
ALLOW 1" AIR SPACE ABOVE INSULATION FOR AIR FLOW

STRUCTURAL EVALUATION BY:

HOWERTON SERVICES, PLLC
3513 CATHEDRAL BELL ROAD RALEIGH, NC 27614
LICENSE P-1716

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS.
- ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO IMMEDIATE ATTENTION OF THE ENGINEER. FAILURE TO DO SO WILL VOID ENGINEER'S LIABILITY.
- DO NOT SCALE THESE DRAWINGS - ENGINEERING APPROVAL EXPIRES 05/01/2025



S4
01

ROOF PLAN

1/4"=1'-0"

04/23 2024 EDT

■ INDICATES (3) 2x4 STIFF KNEE ON BEAM BELOW

Plan No. 3480-20

STRUCTURAL EVALUATION BY:
HOWERTON SERVICES, PLLC
3513 CATHEDRAL BELL RD., RALEIGH, NC
27614

BUILDING DESIGN BY:
YOUNGANNON DESIGNS

Rick & Janice Weber
Mamie Upchurch Road
Lillington, NC

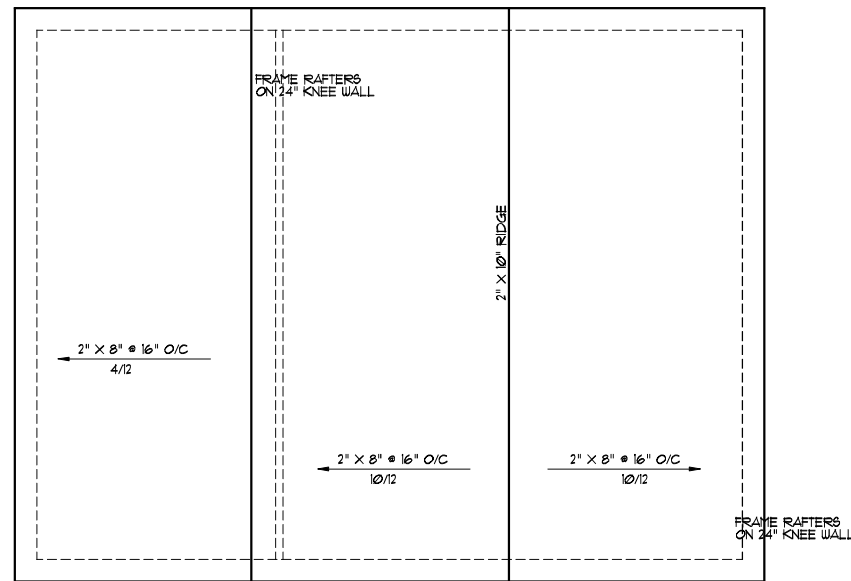
DESCRIPTION:
ROOF PLAN

REVISION:

DATE:
04/23/2024

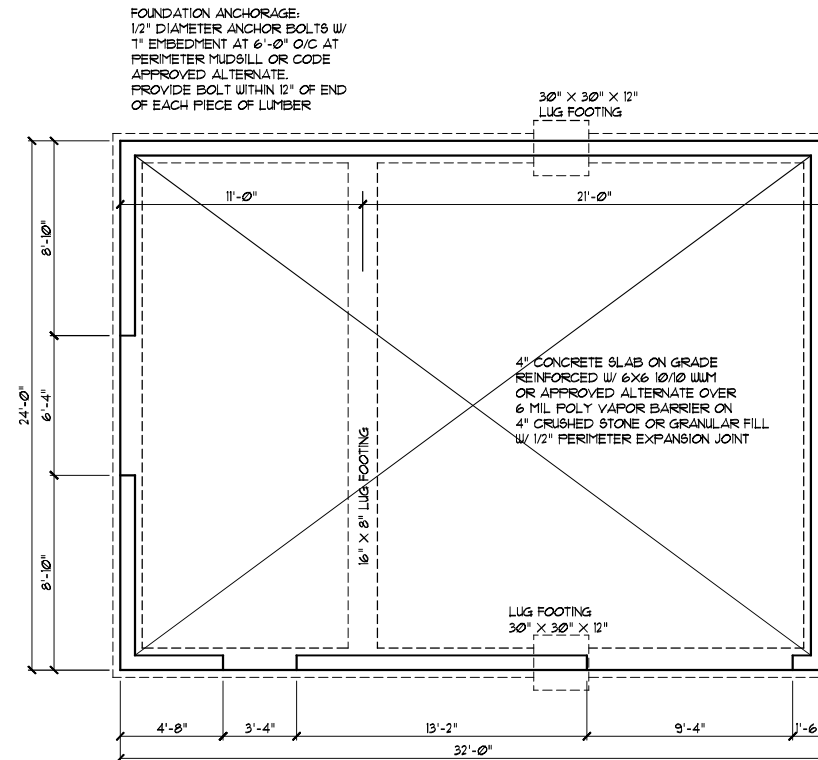
ISSUE:

S4



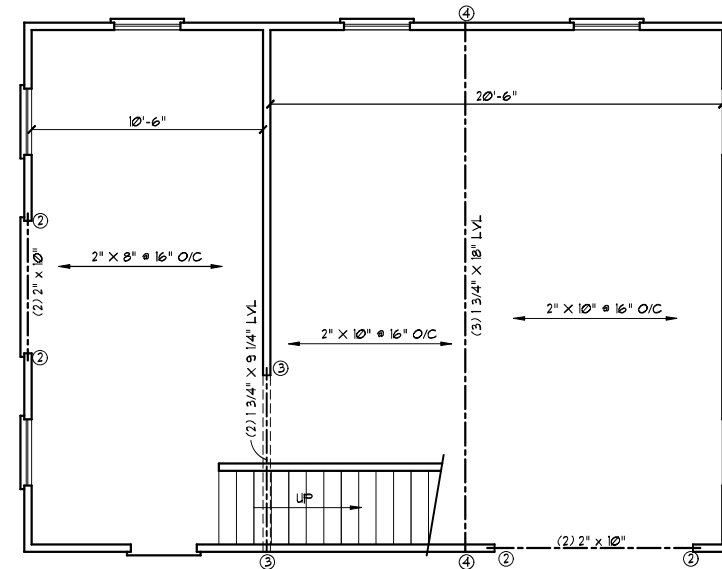
ATTIC SPACE VENTILATION
 MAIN ROOF
 ATTIC AREA = 168 SQ. FT.
 REQUIRED AREA = $A/300 = 256$ SQ. FT.
 NOTE:
 ALL EAVES TO HAVE 2" CONTINUOUS SOFFIT VENT
 ALLOW 1" AIR SPACE ABOVE INSULATION FOR AIR FLOW

ROOF PLAN
 1/4"=1'-0"



TYPICAL FOUNDATION WALL
 10" FOURED CONCR WALL
 W/ BRICK LEDGE, 8" SOLID CAP
 OVER 10" DEEP X 20" WIDE CONT.
 FOUR CONCRETE FOOTING

FOUNDATION PLAN
 1/4"=1'-0"



NOTE: ○ = * OF JACK STUDS UNDER BEAM

FLOOR PLAN
 1/4"=1'-0"

GARAGE AREA: 168 SQ. FT.

STRUCTURAL EVALUATION BY:
 HOWERTON SERVICES, PLLC
 3513 CATHEDRAL BELL ROAD RALEIGH, NC 27614
 LICENSE P-1716

- * ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS.
- * ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO IMMEDIATE ATTENTION OF THE ENGINEER. FAILURE TO DO SO WILL VOID ENGINEER'S LIABILITY.
- * DO NOT SCALE THESE DRAWINGS - ENGINEERING APPROVAL EXPIRES 04/23/2024 EDT 05/01/2025



S5
01

DETACHED GARAGE
 1/4"=1'-0"

Plan No. 3480-20

STRUCTURAL EVALUATION BY:
 HOWERTON SERVICES, PLLC
 3513 CATHEDRAL BELL RD., RALEIGH, NC
 27614

BUILDING DESIGN BY:
 YOUNGANNON DESIGNS

Rick & Jannice Weber
 Mamie Upchurch Road
 Lillington, NC

DESCRIPTION:
 ROOF PLAN

REVISION:

DATE:
 04/23/2024

OWNER:

S5