

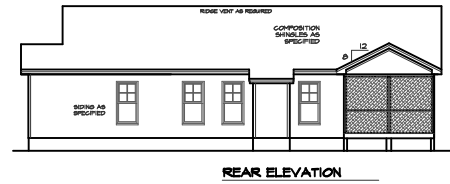
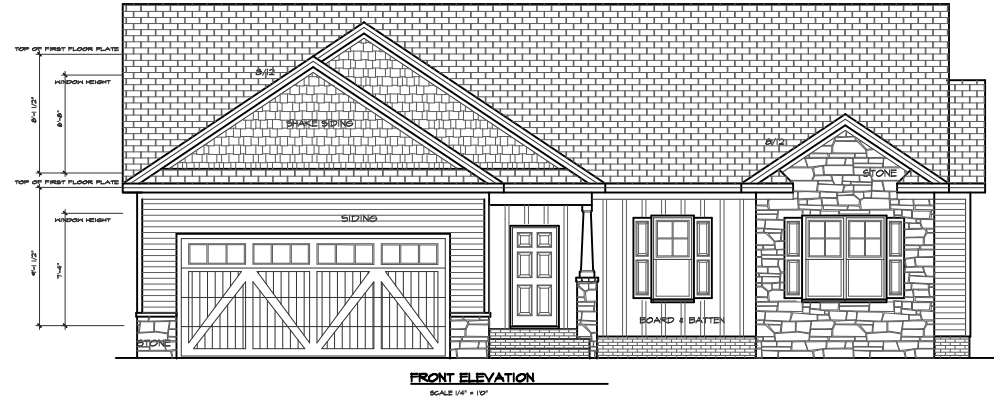


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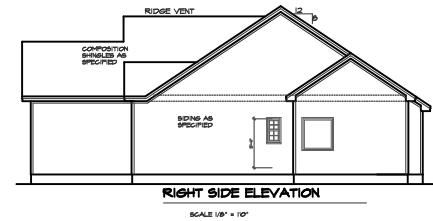
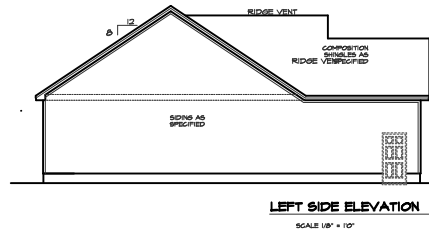
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ATTIC VENTILATION
GRASSY ATTIC AREA TO BE VENTILATED = 260780. FT.
28071500 = 8.81560 FT. NET FREE AREA
50% OF VENTING MUST BE 3 FEET ABOVE THE EAVE OR SOFFIT VENTS



THIS PLAN DESIGNED UNDER NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION (2021 IRC).
NO. 220804 (NO. 1) / NOV. 18 - 2024

NRH 1822 GARAGE LEFT

MidTown Designs Inc. 1732 Deacon Falls Way, Wendell NC 27591 Phone: 919-763-8626 www.midtowndesigns.com

REV 1/01/2025

PROJECT # 220804



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THIS PLAN DESIGNED UNDER NORTH CAROLINA RESIDENTIAL CODE 2016 EDITION (2021 IRC) NO. (2024) N.C. 1801.1 (18" x 24" SFF)

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FOUNDATION VENTING

SECTION R408 UNDER FLOOR SPACE
R408.1 Ventilation. The under-floor space between the bottom of the floor joists and the earth or any building foundation shall be provided with ventilation openings through foundation walls of exterior walls. The minimum net area of ventilation openings shall not be less than 1 square foot for each 100 square feet of floor area. It is required for each 100 sq ft of under-floor space that one such ventilation opening shall be within 5 feet (4' min) of each corner of each building.

CRRAWL AREA TO BE VENTED, 1882 SQ FT, 3600/800 + 1024 NET FREE VENTING AREA REQUIRED

R408.2 Ground Vapor Retarder
A ground vapor retarder shall be installed to cover all earth in that crawl space with joints lapped not less than 6"

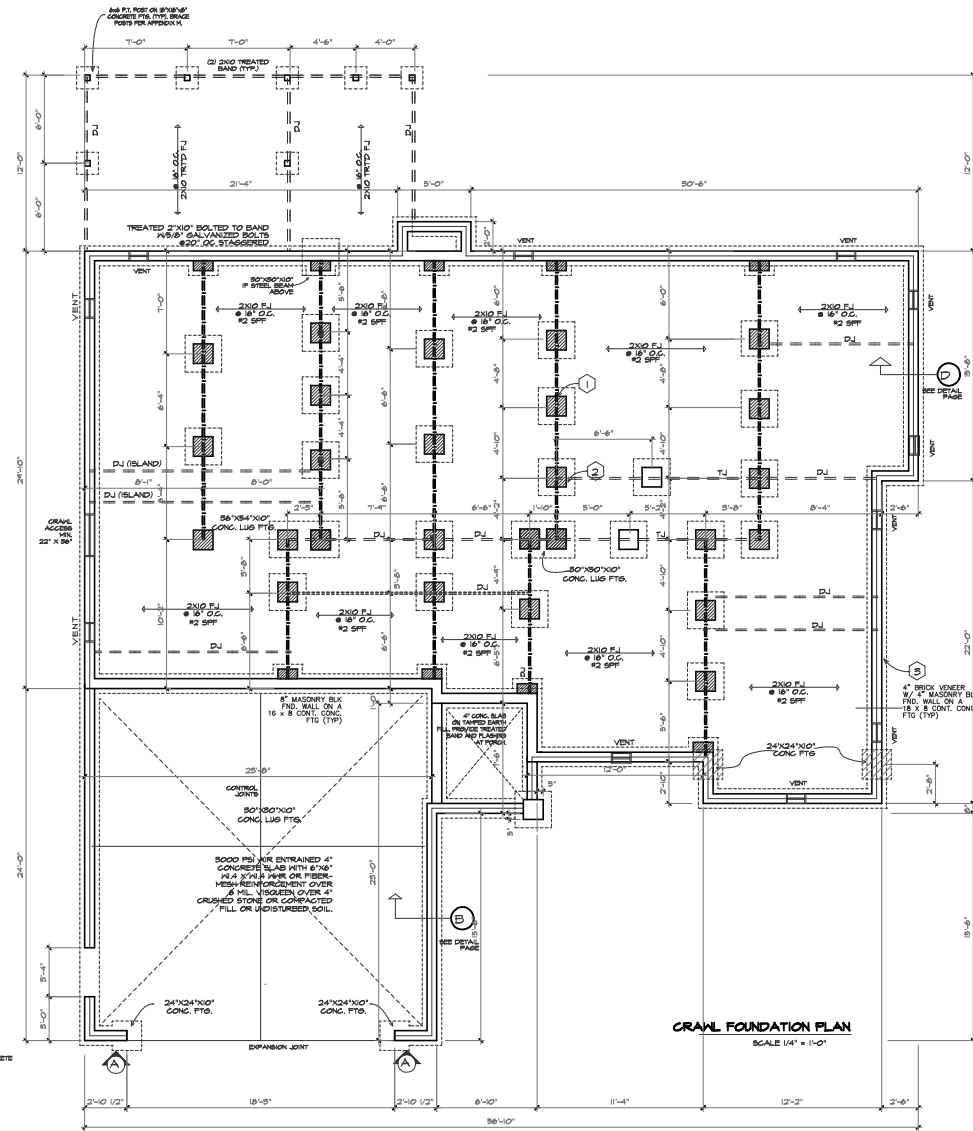
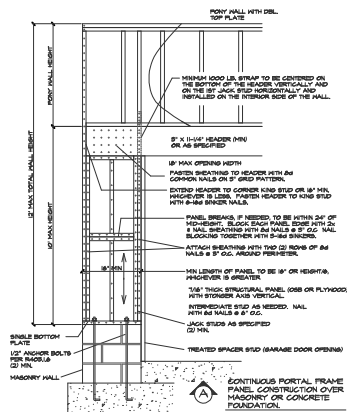
FOUNDATION STRUCTURAL NOTES:

- (1) (3) 2 x 10 SFF #2 GIRDER DROPPED, TYPICAL UNO.
- (2) CONCRETE BLOCK PIER SIZE SHALL BE:
SIZE HOLLOW MASONRY SOLID MASONRY
8 x 16 UP TO 32' HIGH UP TO 5'-0" HIGH
12 x 16 UP TO 48' HIGH UP TO 4'-0" HIGH
16 x 16 UP TO 64' HIGH UP TO 12'-0" HIGH
24 x 24 UP TO 48' HIGH
WITH 50' x 50' x 10' CONCRETE FOOTING, UNO.
- (3) WALL FOOTING AS FOLLOWS:
DEPTH: 8' - UP TO 2-1/2 STORY
10' - 5 STORY
WIDTH: SIDING (OR EQUAL)
- 16" - UP TO 2-1/2 STORY
- 16" - 5 STORY
BRICK VENEER
- 16" - 1 STORY
- 20" - 2 STORY
- 24" - 3 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.1 (1 THRU 4). NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.

ATTACH SILL PLATE WITH 1/2" dia. ANCHOR BOLTS AT 6'-0" CENTERS (1" EMBEDMENT) AND 12" FROM EACH PLATE END. (SECTION R 405.1.6)

- 4 "B" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER, SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.
- 5 ABBREVIATIONS:
"S.J." = SINGLE JOIST
"D.J." = DOUBLE JOIST
"T.J." = TRIPLE JOIST



1/17/2025

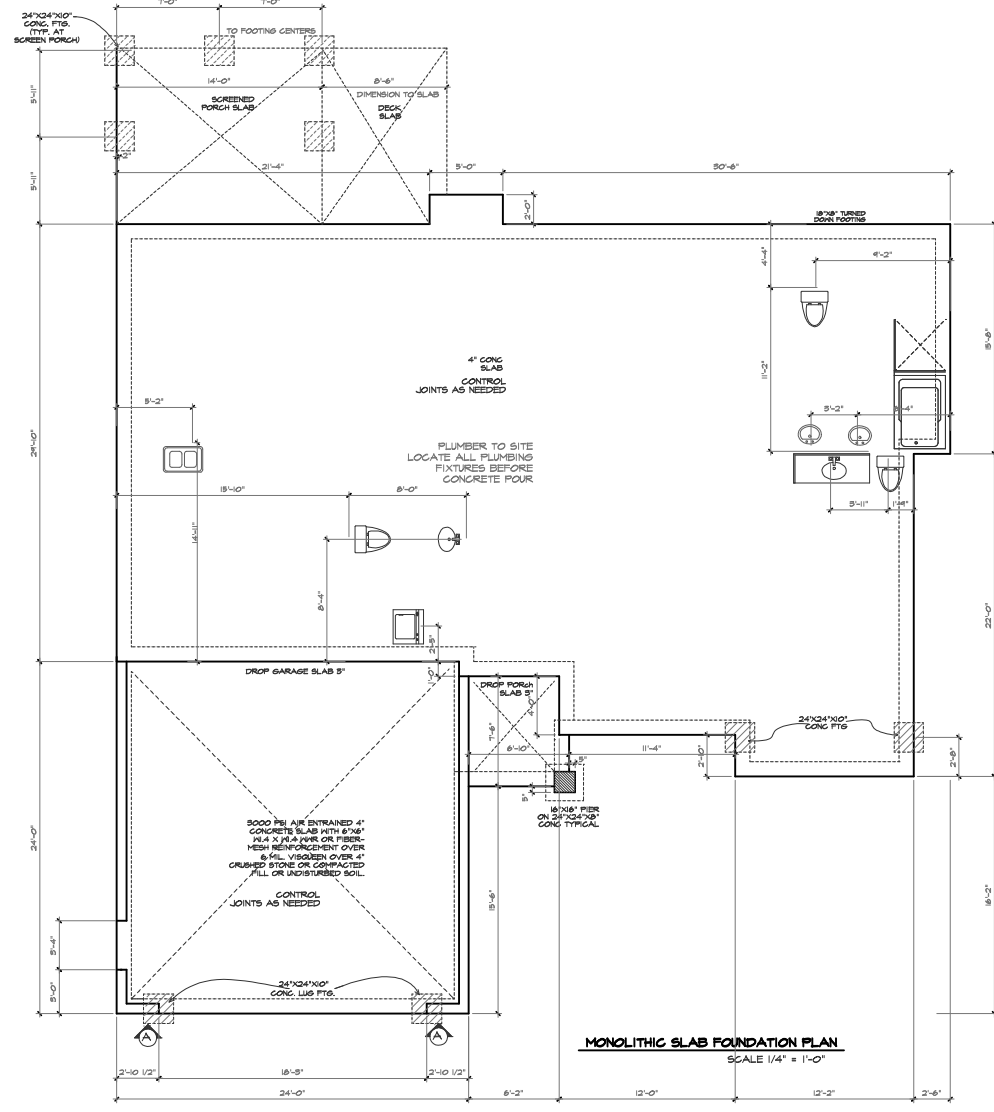
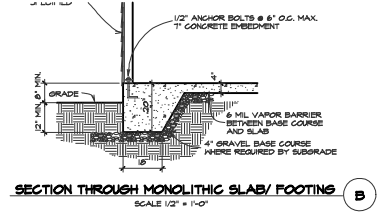
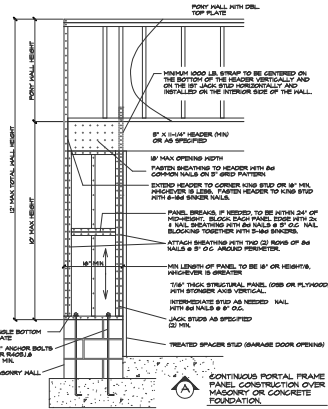
PROJECT # 220804

- ① (3) 2 x 10 SFF #2 GIRDER DROPPED, TYPICAL UNO.
- ② CONCRETE BLOCK PIER SIZE SHALL BE:
 SIZE HALLOW MASONRY SOLID MASONRY
 8 x 16 UP TO 32" HIGH UP TO 5'-0" HIGH
 12 x 16 UP TO 48" HIGH UP TO 8'-0" HIGH
 16 x 16 UP TO 64" HIGH UP TO 12'-0" HIGH
 24 x 24 UP TO 96" HIGH
 WITH 50" x 50" x 10" CONCRETE FOOTING UNO.
- ③ WALL FOOTINGS AS FOLLOWS:
 DEPTH: 8" - UP TO 2-1/2 STORY
 10" - 3 STORY
 WIDTH: SIDING (OR EQUAL)
 - 16" - UP TO 2-1/2 STORY
 - 18" - 3 STORY
 BRICK VENEER
 - 16" - 1 STORY
 - 20" - 2 STORY
 - 24" - 3 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.1 (1 THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.

- ATTACH SILL PLATE WITH 1/2" dia. ANCHOR BOLTS AT 6'-0" CENTERS (T EMBEDMENT) AND 12" FROM EACH PLATE END, (SECTION R 405.1.8)
- 4 "M" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO PND, TYPICAL.

- 5 ABBREVIATIONS:
 'SJ' = SINGLE JOIST
 'DJ' = DOUBLE JOIST
 'TJ' = TRIPLE JOIST



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THIS PLAN DESIGNED UNDER NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION (2021 IRC). NO OTHER NOTED. (PLAN) 118 - 100' 00"

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1/01/2025
 PROJECT # 220804

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 RESIDENTIAL CODE 2018 EDITION (2021 IRC)
 NC (2018 NCRC) / INTL 118 - 2017 IBC

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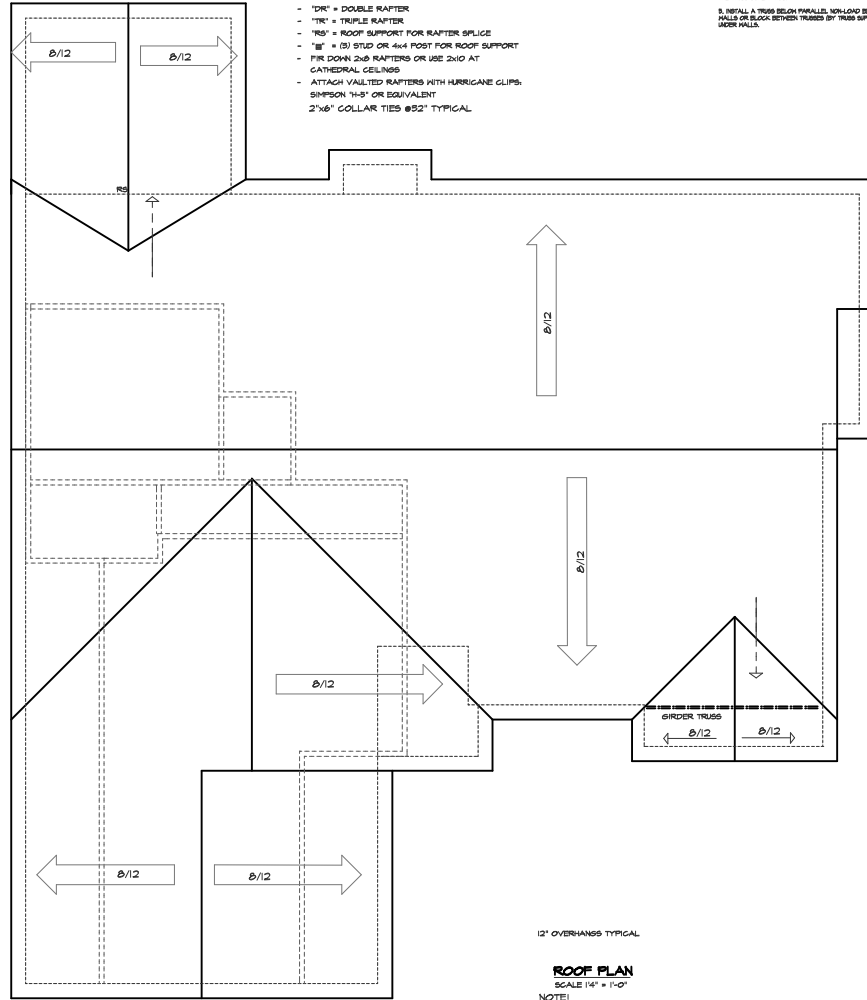
PROJECT # 220804

ROOF FRAMING NOTES:

1. (1B-20) MPH WIND ZONE
2. ALL RAFTERS TO BE 2x8 @ 16" O.C. WITH 2 X 12 RIDGE LMG.
3. (2)2x10 OR (1) 1.75" X 11.75" LVL HIP, (2)2x10 HIPs MAY BE SPLICED WITH A MINIMUM 8'-0" OVERLAP AT CENTER.
4. (2)2x10 OR (1) 1.75" X 11.75" LVL VALLEY, DO NOT SPLICE VALLEYS
5. (1)18x11 1/8" LVL VALLEY
6. FALSE FRAME VALLEY ON 2x10 FLAT PLATE
7. (2)2x10 RAFTERS @ 16" O.C. W/ 2x12 RIDGE
 - "SR" = SINGLE RAFTER
 - "DR" = DOUBLE RAFTER
 - "TR" = TRIPLE RAFTER
 - "RS" = ROOF SUPPORT FOR RAFTER SPLICE
 - "IP" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT
 - "IR" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT AT CATHEDRAL CEILING
 - ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS, SIMPSON 1-5" OR EQUIVALENT
 - 2"x6" COLLAR TIES @ 52" TYPICAL

TRUSS SYSTEM REQUIREMENTS
 NC (2018 NCRC) / INTL 118 - 2017 IBC

1. TRUSS SYSTEM LAYOUT, PLACEMENT PLANS SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS, AND USED TO CONSTRUCT TRUSSES SHALL BE COORDINATED WITH ENGINEER OF RECORD
2. TRUSS SYSTEMS/PROFILES SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON UPPT 4x4 OR 6x6 PLATES OR LEGGERS LMG
4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEDULES.
5. REPAIR A TRUSS BELOW FINISH FLOOR, NON-LOAD BEARING WALLS OR SLUGS BETWEEN TRUSSES BY TRUSS SUPPLIER UNDER PALLS.



12' OVERHANGS TYPICAL

ROOF PLAN

SCALE 1/4" = 1'-0"

NOTE:
SEE TRUSS LAYOUT BY OTHERS



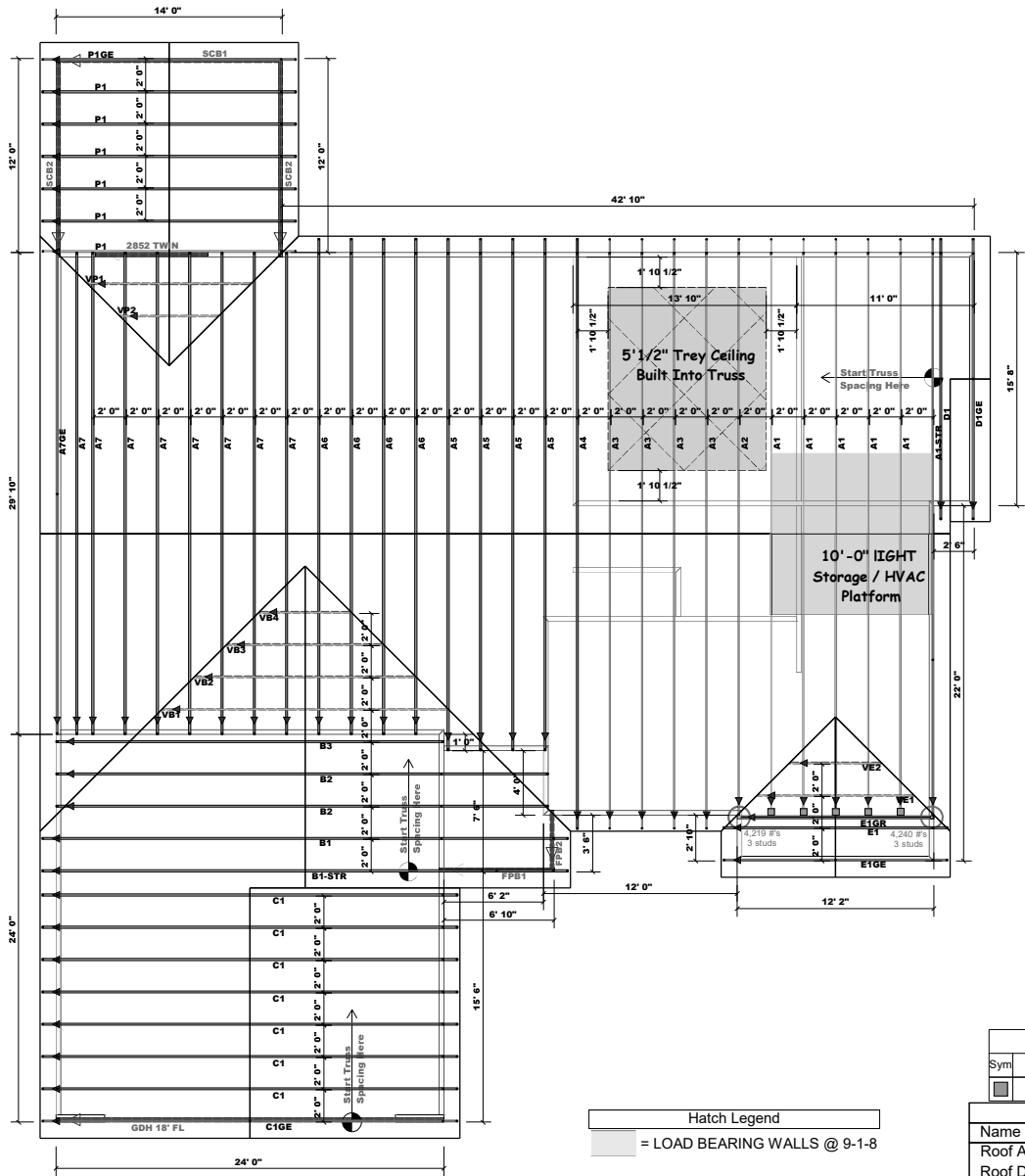
ROOF & FLOOR TRUSSES & BEAMS
 Reilly Road Industrial Park
 Fayetteville, N.C. 28309
 Phone: (910) 864-8787
 Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables 1 derived from the prescriptive Code requirements 1) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 1500#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 1500#.

Signature: *Lenny Norris*
 Lenny Norris

LOAD CHART FOR JACK STUDS
 (BASED ON TABLES #502.501 & 503)
 NUMBER OF JACK STUDS REQUIRED @ EA END OF MEMBER

SPACING (CENTER TO CENTER)	REACTION (UP TO)	NO. OF JACK STUDS REQUIRED	SPACING (CENTER TO CENTER)	REACTION (UP TO)	NO. OF JACK STUDS REQUIRED
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				



Hatch Legend
 [Hatched Box] = LOAD BEARING WALLS @ 9-1-8

▲ = Denotes Left End of Truss
 (Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.
 ○ -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

Connector Information				Nail Information		
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
[Box]	HUS28	USP	5		16d/3-1/2	16d/3-1/2"

Estimation			
Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	3448.31
Roof Decking	1st Floor	Roof Decking	119

PlotID	Length	Product	Products	
			Plies	Net Qty
GDH 18' FL	24' 0"	1-3/4"x 14" LVL Kerto-S	2	2
SCB1	14' 0"	2x10 SPF No.2	2	2
SCB2	14' 0"	2x10 SPF No.2	2	4
2852 TWIN	8' 0"	2x10 SPF No.2	2	2
FPB1	8' 0"	2x10 SPF No.2	2	2
FPB2	4' 0"	2x10 SPF No.2	2	2

Truss Placement Plan
SCALE: 3/16" 1-0"

CITY / CO.	Site Address - City / Johnston
ADDRESS	Site Address
MODEL	ROOF
DATE REV.	12/23/24
DRAWN BY	Lenny Norris
SALES REP.	Lenny Norris

Neuse River Homes	Lot 8 Honaker Farms
NRH 1822 LUCAS <td></td>	
Seal Date	Quote #
J1224-6969	

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
 These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult IBC3011 and IBC3012 provided with the truss delivery package or online @ sbcindustry.com

