

GENERAL NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL DIMENSIONS, ROOF PITCHES, AND SQUARE FOOTAGE CORRECT PRIOR TO CONSTRUCTION. 1ST CHOICE DRAFTING LLC IS NOT RESPONSIBLE FOR ANY DIMENSIONING, ROOF PITCH, OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL WALLS SHOWN ON THE FLOOR PLANS ARE DRAWN AT 4" UNLESS NOTED OTHERWISE.
- ALL ANGLED WALL SHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
- STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
- DO NOT SCALE PLANS. DRAWING SCALE MAY BE DISTORTED DUE TO COPIER IMPERFECTIONS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.

STRUCTURAL NOTES:

- Framing lumber shall be SYP or #2 SPF (modules of elasticity 1,100,000 psi, E=1,050). All beams & treated lumber to be #2 SYP, E=1,000,000, F=1100 min. Joists min #2 or solid grade.
- Use hangers for all beam to beam connections. Structural fastening as per R602.3(1). Adequate connections to the sole responsibility of the general contractor and his subs.
- Structural members fastening to conform to Table R602.3(1) and (2).
- Roof Framing Notes:
 - DoI Hips may be spliced with a min. 6'-0" overlap at center. No valley splices.
 - Use 2x10 or 4" down rafters for vaulted areas.
 - Attach each vaulted rafter with hurricane connector (Strapcon H-2.3, H-3 or approved equal or E-ROWC).
- All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, shall meet codes & regulations or 2015 IRC.
- Structural Engineer is not responsible for and will not control construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction work.
- Structural Engineer is not responsible for the contractor's failure to carry out the prepared construction work in accordance with the contract documents.
- Use Method #3 for Structural Sheathing; "Accepted Engineer's Practice"

FOUNDATION NOTES:

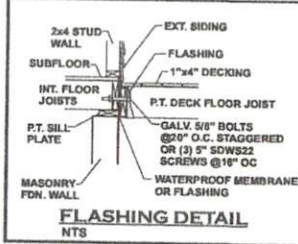
- Deck posts min. 4'-0" above grade are to be area or diagonally braced per Appendix M. Fastening to house will be by rafter with 5/8" galvanized bolts @ 20" o.c. and 12d hot dipped nails @ 42" o.c.
- Corers shall be braced with one of the approved methods as outlined in R602.10.3.
- Structural members fastening to conform to Table R602.3(1) and (2).
- Girders and piers shall bear on center 1/3 of pier and footing, respectively.
- 2018 NC State Residential Building Code apply to the construction of footings.
- Typical lag footing to be 18" x 8" deep, (UNO).
- Pressure treated wood shall be installed for exterior use.
- Hanger brackets (Dimplex hangers) for beam to beam connections (UNO)
 - (2)2x10's; LUS210-2
 - (2)2x10's; LUS210-3
 - (2)2-1/4" LVL's; HUS410
- Concrete shall have min. 28 day strength of 3000 psi. and max. Slump of 8 inches unless noted otherwise (UNO). Air entrained per Table 4022. All concrete shall be proportioned, mixed, handled, sampled, tested, and placed in accordance with ACI current standards. All samples for pumping shall be taken from the exit pump.
- Allowable soil bearing pressure assumed to be 2000 psf. The contractor must contact Geotechnical Engineer & the Structural Engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided adequate drainage, and shall be graded so as to drain surface water away from foundation walls.

FRAMING NOTES:

- Design Loads (R301.5)

	Live Loads (PSF)	Dead (PSF)
Rooms not for Sleeping	40	10
Sleeping Rooms	30	10
Attic w/ Permanent Stairs	40	10
Attic w/o Permanent Stairs	20	10
Attic w/o Storage	10	10
Stairs	40	-
Exterior Balconies	60	10
Decks	40	10
Guardrails & Handrails	200	-
Passenger Vehicle Garages	50	10
Fire Escapes	40	10
Snow	20	-

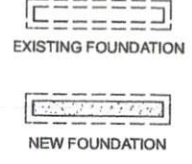
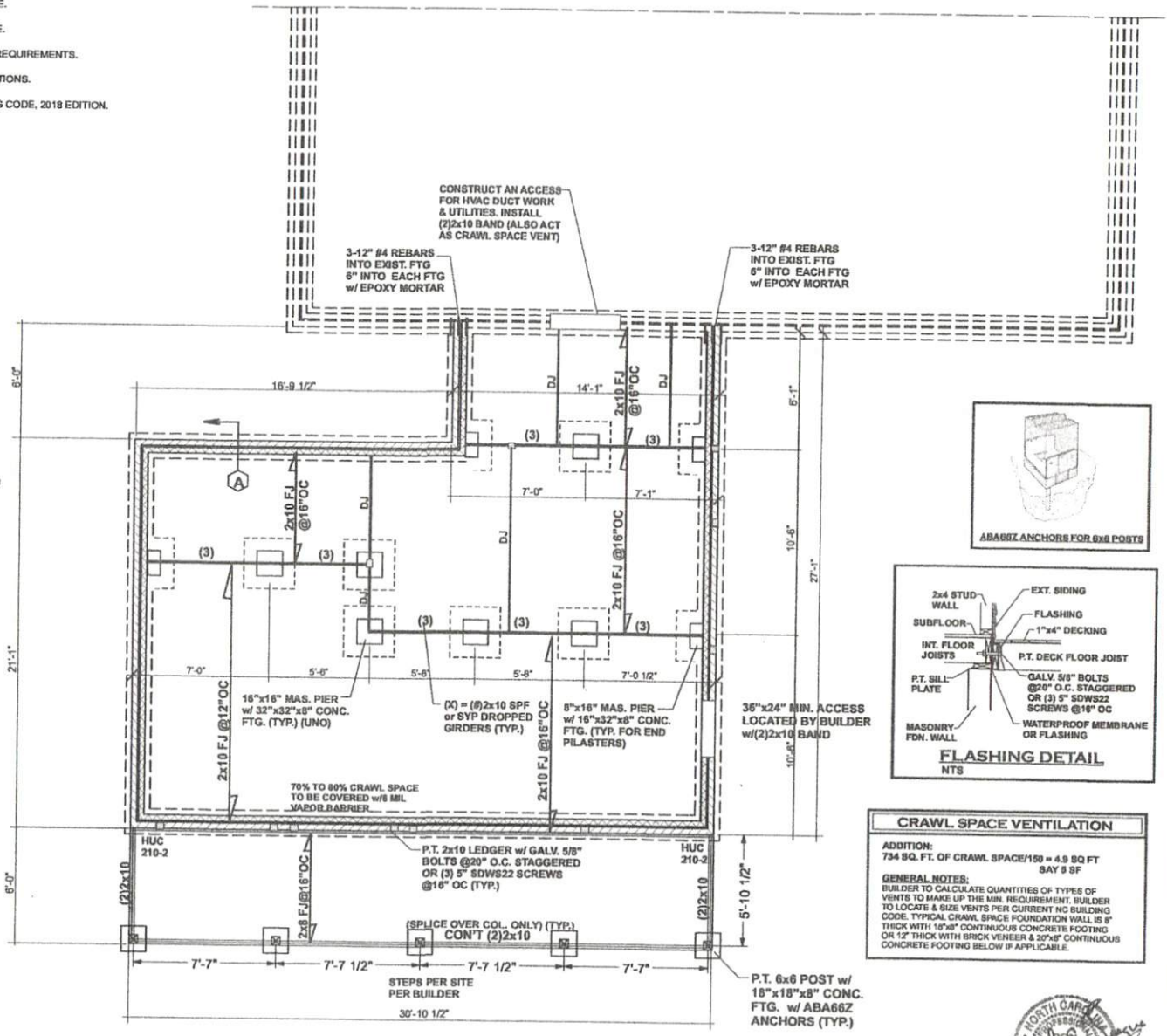
Wind Load: (Refer to Table R301.2.4)
 Vented Zone before Construction
 Wake County 115 mph
- Wall Bracing: Braced wall panels shall be constructed according to section R602.103. The wall structural paneling shall comply with Table R602.103. The length of braced panels shall be determined by section R602.10.4. Lateral bracing shall be installed per method 3 by continuously sheathing walls with structural sheathing per Table 601.3. Note that any specific braced wall detail shall be installed as specified.
- All framing lumber shall be SPF#2 (Fb=875 psi) unless otherwise noted (UNO). All treated lumber shall be SYP#2 (Fb=875 psi). Plate material may be SPF#3 or SYP#3 (Fb (para) = 625 psi min.)
- All exterior headers to be (2)2x10 spf. u.n.o w/ dbl. jacks for all openings >5'-0".
- All interior bearing headers to be (2)2x10 u.n.o. w/ dbl. jacks for all openings >4'-0". Use (2)2x8 w/ dbl. jacks for all openings >3'-0" u.n.o.
- All interior non-bearing headers to be min. (2)2x4 flat u.n.o.
- Fireblock to conform with R602.8



CRAWL SPACE VENTILATION

ADDITION:
 734 SQ. FT. OF CRAWL SPACE/150 = 4.9 SQ FT SAY 5 SF

GENERAL NOTES:
 BUILDER TO CALCULATE QUANTITIES OF TYPES OF VENTS TO MAKE UP THE MIN. REQUIREMENT. BUILDER TO LOCATE & SIZE VENTS PER CURRENT NC BUILDING CODE. TYPICAL CRAWL SPACE FOUNDATION WALL IS 8\"/>



FOUNDATION LAYOUT

160 JOHN AND ESTHER LANE
DUNN, NC 28334

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(819) 380-6429

DATE:
2/15/2024

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Engineered by:
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Date: 2/15/24
North Carolina License # 27329

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GENERAL NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL DIMENSIONS, ROOF PITCHES, AND SQUARE FOOTAGE IS CORRECT PRIOR TO CONSTRUCTION. 1ST CHOICE DRAFTING LLC IS NOT RESPONSIBLE FOR ANY DIMENSIONING, ROOF PITCH, OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL WALLS SHOWN ON THE FLOOR PLANS ARE DRAWN AT 4" UNLESS NOTED OTHERWISE.
- ALL ANGLED WALL SHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
- STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
- DO NOT SCALE PLANS. DRAWING SCALE MAY BE DISTORTED DUE TO COPIER IMPERFECTIONS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.

STRUCTURAL NOTES:

- Framing lumber shall be SYP or #2 SPF (modulus of elasticity 1,100,000 psi, E=950). All beams & treated lumber to be #2 SYP; E=1,000,000, F=1100 min. Splice min #2 or stud grade.
- Use hangers for all beam to beam connections. Structural fastening as per R602.3(1). Adequate connections is the sole responsibility of the general contractor and his subs.
- Structural members fastening to conform to Table R602.3(1) and (2).
- Roof Framing Notes:
 - DN Hips may be spliced with a min. 6'-0" overlap at center. No valley splines.
 - Use 2x10 or 1x down rafters for vaulted areas.
 - Attach each vaulted rafter with hurricane connectors: Simpson H-2.5, H-6 or approved equal or 6" SCHNC's.
- All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations or 2015 IRC.
- Structural Engineer is not responsible for and will not control construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction work.
- Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the contract documents.
- Use Method #1 for Structural Sheathing: "Accepted Engineer's Practice"

FRAMING NOTES:

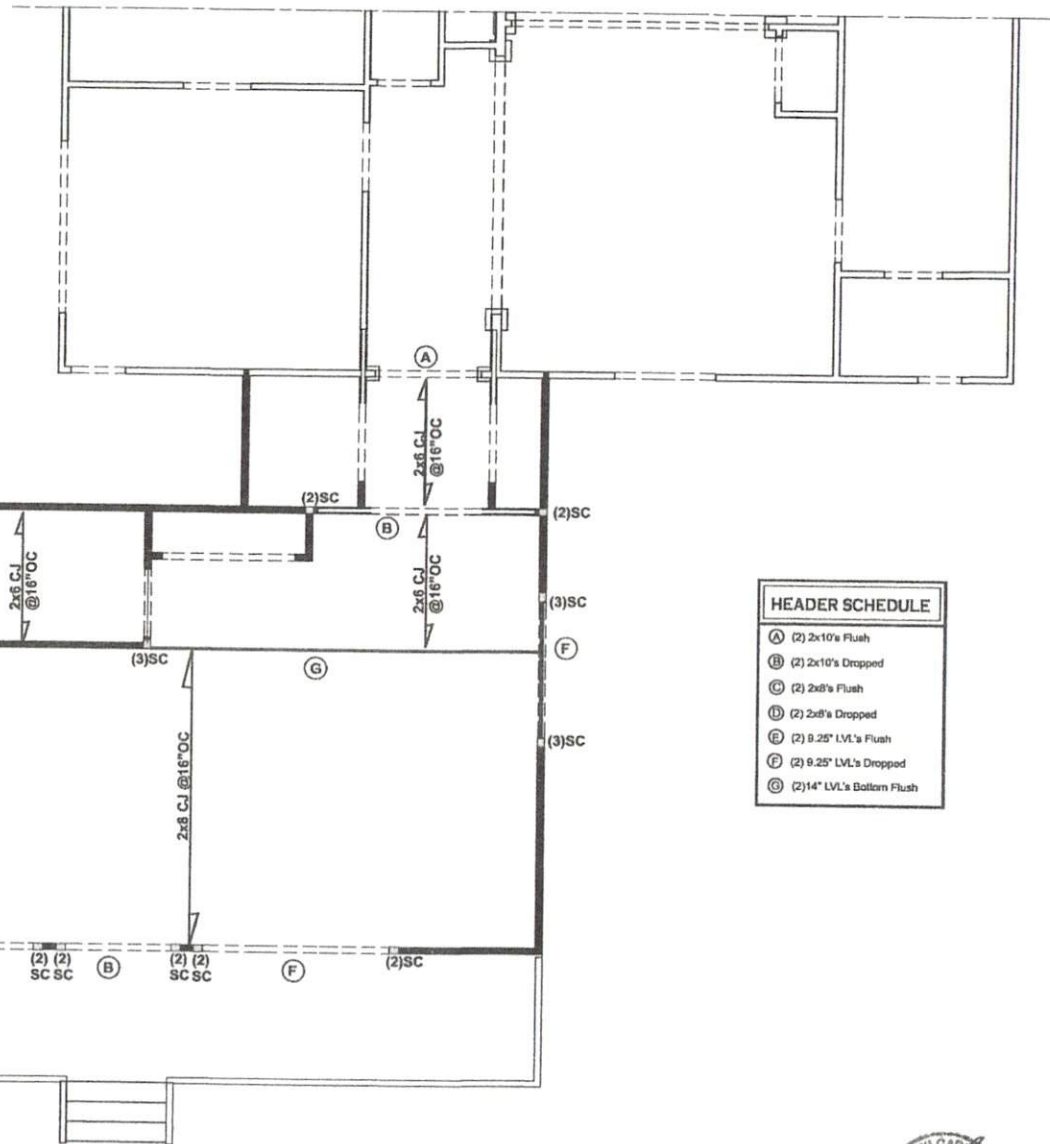
- Design Loads (R301.5)

Live Loads (PSF)	Dead (PSF)
Rooms not for Sleeping	40
Sleeping Rooms	30
Attic w/Permanent Stairs	40
Attic w/o Permanent Stairs	20
Attic w/o Storage	10
Stairs	40
Exterior Balconies	60
Decks	40
Garage	200
Passenger Vehicle Carports	50
Fire Escapes	40
Snow	20
- Wind Load: (Refer to Table R301.2.4) Vortex Zone before Construction Wake County 115 mph
- Wall Framing: Braced wall panels shall be constructed according to section R602.10.3. The wall structural sheathing shall comply with Table R602.10.3. The length of braced panels shall be determined by section R602.10.4. Lateral bracing shall be satisfied per method 3 by continuously sheathing walls with structural sheathing per Table 601.3. Note that any specific braced wall detail shall be installed as specified.
- All framing lumber shall be SPF#2 (Fb=975 psi) unless otherwise noted (LNC). All treated lumber shall be SYP#2 (Fb=975 psi). Plastic material may be SPF#3 or SYP#3 (Fb=975 psi) (min. 425 psi min.)
- All exterior headers to be (2)2x10 spf u.o.c. w/ dbl. jacks for all openings >0'-0".
- All interior bearing headers to be (2)2x10 u.o.c. w/ dbl. jacks for all openings >4'-0". Use (2)2x8 w/ dbl. jacks for all openings >3'-0" u.o.c.
- All interior non-bearing headers to be min. (2)2x4 fsc u.o.c.
- Fireblock to conform with R602.8

WALL BRACING NOTES:

WALL BRACING SHALL BE IN ACCORDANCE WITH SECTION R602.10.3 CONTINUOUS SHEATHING. BRACING METHOD CS-WSP SHALL BE USED IN ACCORDANCE WITH TABLE R602.10.1

- THE REQUIRED LENGTH OF BRACING FOR EACH SIDE OF A RECTANGLE CIRCUMSCRIBED AROUND THE PLAN OR A PORTION OF THE PLAN AT EACH STORY LEVEL SHALL BE IN ACCORDANCE WITH TABLE R602.10.3 AND FIGURE R602.10.3(1) UNLESS NOTED OTHERWISE, THE ENTIRE STRUCTURE IS ASSUMED TO CIRCUMSCRIBED WITH A SINGLE RECTANGLE.
- MINIMUM PANEL WIDTH IS 24". SEE SECTION R602.10.3 FOR ADDITIONAL INFORMATION. CONNECTION CRITERIA SHALL BE IN ACCORDANCE WITH TABLE R602.10.1.
- PORTAL FRAME CONSTRUCTION SHALL BE IN ACCORDANCE WITH FIGURE R602.10.1.
- HOLD DOWN DEVICE SHALL BE AS FOLLOWS: SIMPSON L1TA24 STRAP (OR EQUIVALENT) BETWEEN FLOORS EXTENDING FROM BOTTOM OF FLOOR BARR AND UP THE STUDS PER SITE PER BUILDER SIMPSON HD38 HOLD DOWN (OR EQUIVALENT) WHERE REQUIRED TO CONNECT DIRECTLY TO FOUNDATION.



HEADER SCHEDULE	
(A)	(2) 2x10's Flush
(B)	(2) 2x10's Dropped
(C)	(2) 2x8's Flush
(D)	(2) 2x8's Dropped
(E)	(2) 8.25" LVL's Flush
(F)	(2) 14" LVL's Bottom Flush



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CEILING
LAYOUT

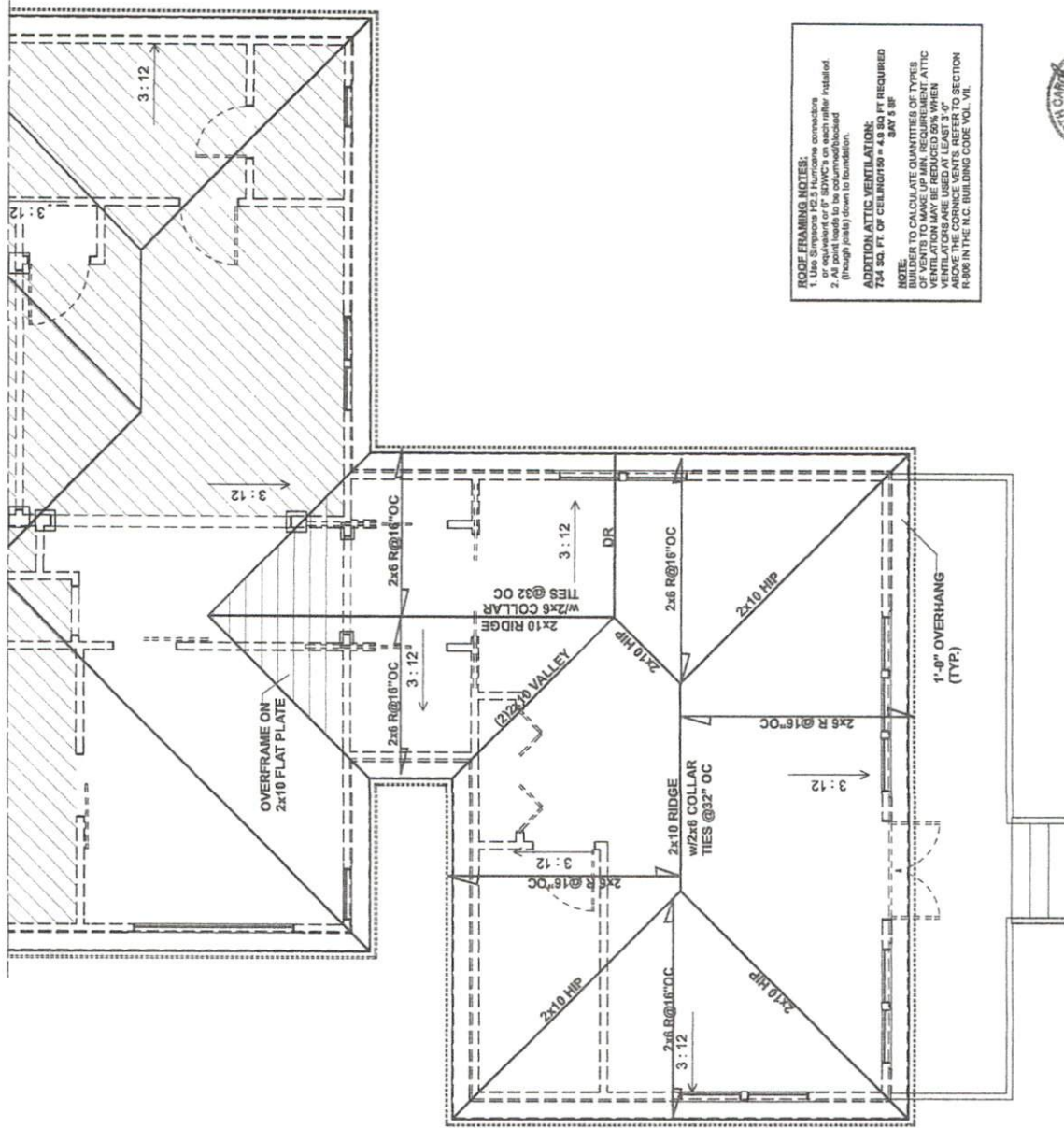
160 JOHN AND ESTHER LANE
DUNN, NC 28334

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1st CHOICE DRAFTING LLC

DATE:
2/15/2024

SHEET:

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PO#2510458



ROOF FRAMING NOTES:
1. Use Simpson 142-3 hurricane connections or equivalent or 6" SHWC's on each rafter installed.
2. All joint loads to be column/anchored (through joists) down to foundation.

ADDITIONAL ATTIC VENTILATION:
754 SQ. FT. OF CEILING/150 = 4.9 SQ FT REQUIRED @ 8' 0" R²

NOTE:
BUILDER TO CALCULATE QUANTITIES OF TYPES AND QUANTITIES OF VENTILATION. ATTIC VENTILATIONS MAY BE REDUCED 50% WHEN ABOVE THE CORNICE VENTS. REFER TO SECTION R-606 IN THE N.C. BUILDING CODE VOL. 11.

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 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.

- STRUCTURAL NOTES:**
- Framing unless noted to be 2x10 or 2x12 @ 16" OC (modulus of elasticity = 1,800,000 psi) shall be 2x10 or 2x12 @ 16" OC (modulus of elasticity = 1,800,000 psi). Blasts min. 4" or 6" wide.
 - Standard framing per IRC R602.3.1.1. Adequate connections to be the sole responsibility of the contractor.
 - Structural members framing to conform to applicable code requirements.
 - DO NOT use any material with a min. 6" or less width at exterior. No valley splices.
 - Use 2x10 or 2x12 for shear walls for vertical areas.
 - Connectors Simpson 142-3, 142-4 or approved equal or 6" SHWC.
 - All construction shall be in accordance with the latest requirements of the NC State Residential Building Code - 2018 Edition, including all local codes & regulations or 2015 IRC.
 - Contractor shall be responsible for safety precautions and sequencing of construction means, methods, techniques, and equipment.
 - Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the approved construction documents.
 - Use Method #3 for Structural Drawings.

- FRAMING NOTES:**
- Design Loads (R602.5) Use Loads (PSF) Dead (PSF) (PSF) Rooms not for Sleeping 40 10 10 Storage 40 10 10 Attic with Permanent Stairs 40 10 10 Attic with Storage 40 10 10 Exterior Balconies 60 10 10 Decks 60 10 10 Porches 60 10 10 Passenger Vehicle Carriage 50 10 10 Fire Escapes 40 10 10
 - Wind Load: (Refer to Table R601.2.4) Verify Zone before Construction.
 - Wind Bracing: Braced wall panels shall be constructed according to section R602.10.3. The bracing shall be installed in the same manner as the panels shall be determined by section R602.10.4. Lateral bracing shall be installed per method 3 showing per Table 601.3. Note that any specific braced wall detail shall be installed as specified.
 - Interior bracing: Bracing shall be installed as specified. Bracing shall be 2x4 (min. 1" x 4" x 8" or 1" x 4" x 6").
 - Attic bracing: Bracing shall be 2x4 (min. 1" x 4" x 8" or 1" x 4" x 6").
 - Attic bracing: Bracing shall be 2x4 (min. 1" x 4" x 8" or 1" x 4" x 6").
 - Attic bracing: Bracing shall be 2x4 (min. 1" x 4" x 8" or 1" x 4" x 6").

