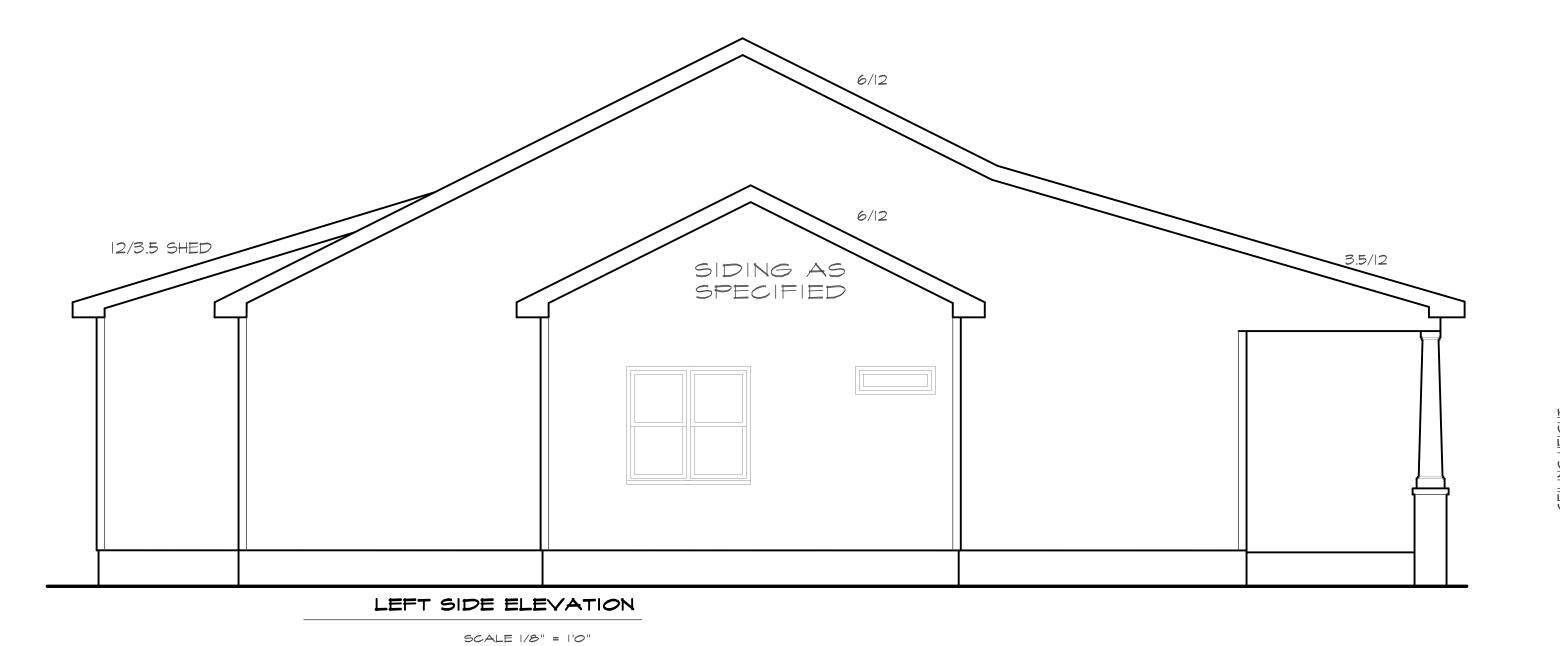
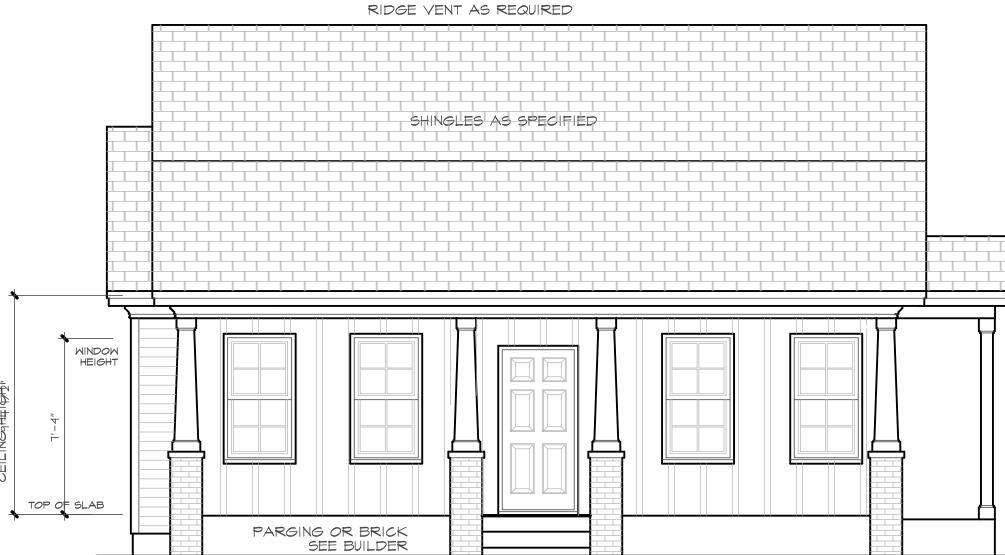
MAPLE HILL - LOT 5 4166 DARROCH ROAD LILLINGTON, NC 27546





FRONT ELEVATION

SCALE 1/4" = 1'0"

ATTIC VENTILATION:

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN I TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE I TO 300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.

GROSS ATTIC AREA TO BE VENTILATED 1255 SQ.FT.

1255/300 = 4.2 SQ.FT. NET FREE AREA

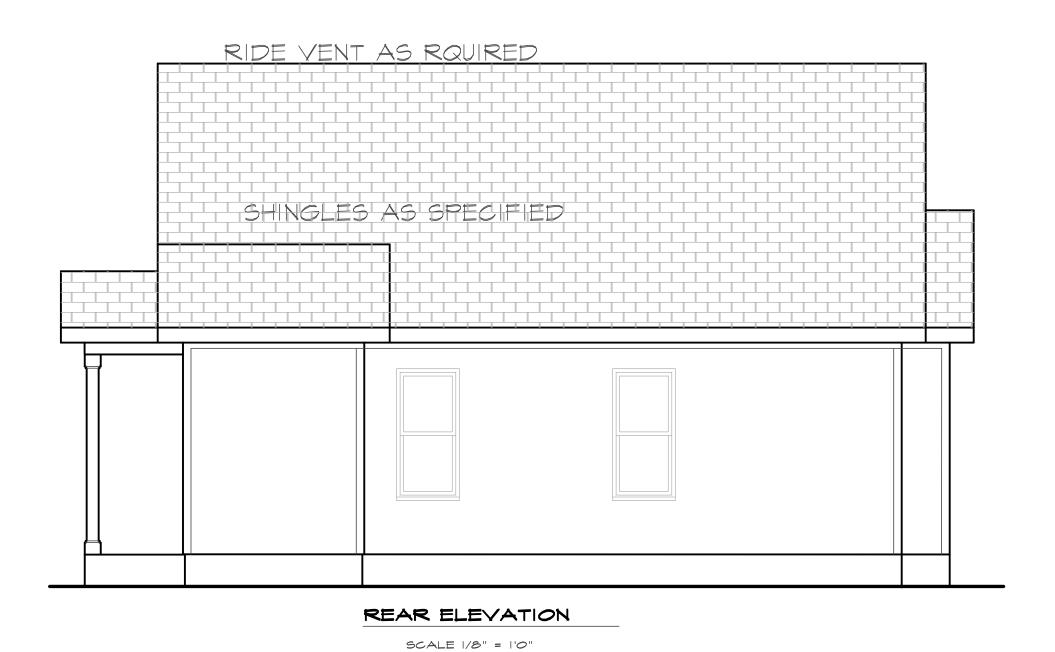
50% OF VENTING MUST BE 3FT. ABOVE EAVE OR SOFFIT VENTS.

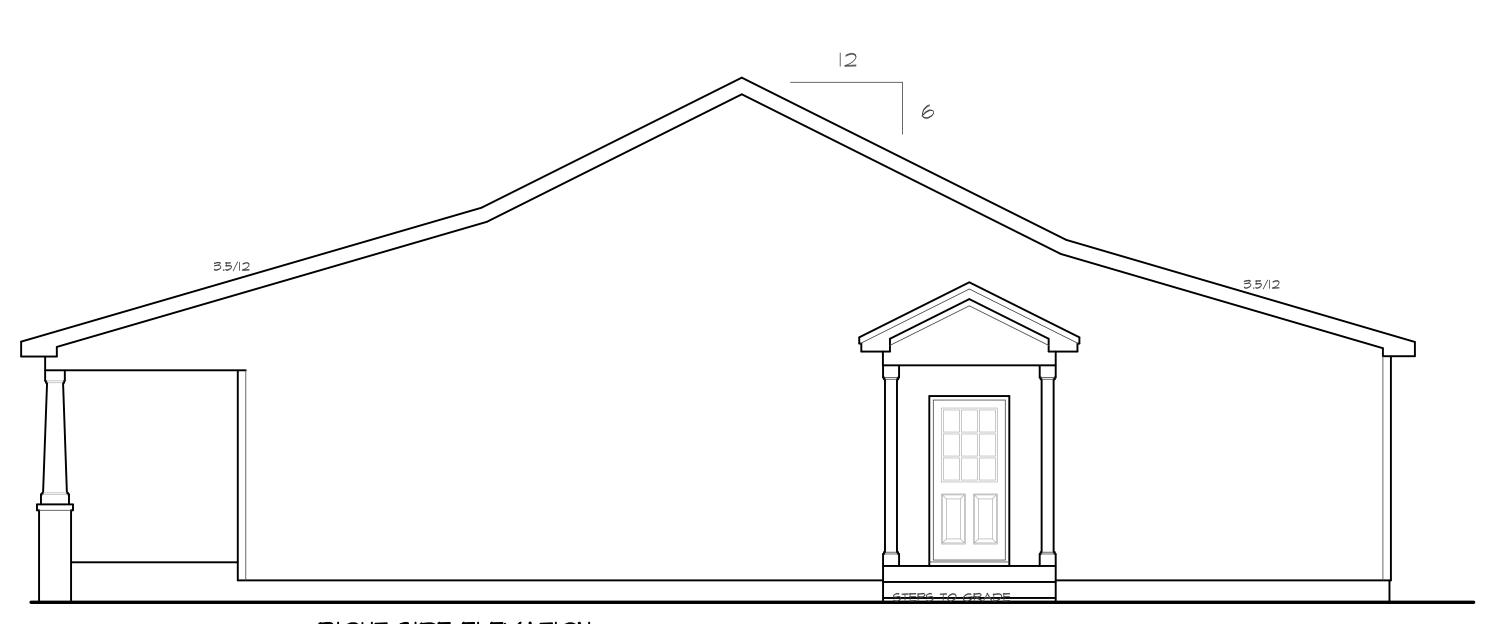
NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

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

10/29/2024

Harnett
C 0 U N T Y
NORTH CAROLINA





RIGHT SIDE ELEVATION

SCALE 1/8" = 1'0"

MIDTOWN DESIGNS

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dimensions and conditions be beginning construction.

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contractors practices and

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A I V REVER

BEL

Plan #

PLAN DESIGNED UNDER NORTH CAROLINA PENTIAL CODE 2018 EDITION (2018 IRC)

PROJECT #

SCALE 1/4" = 1'-0"



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10/19/2023

PROJECT # 231005

FOUNDATION STRUCTURAL NOTES:

igg(1) (3) 2 x IO SPF #2 GIRDER DROPPED TYPICAL UNO. $\langle 2 \rangle$ concrete block pier size shall be:
 SIZE
 HALLOW MASONRY
 SOLID MASONRY

 8 × 16
 UP TO 32" HIGH
 UP TO 5'-0" HIGH

 12 × 16
 UP TO 48" HIGH
 UP TO 9'-0" HIGH
 16 x 16 UP TO 64" HIGH UP TO 12'-0" HIGH 24 x 24 UP TO 96" HIGH WITH 30" \times 30" \times 10" CONCRETE FOOTING, UNO. 3 WALL FOOTING AS FOLLOWS: 8" - UP TO 2-1/2 STORY 10" - 3 STORY DEPTH: FOUNDATION NOTES: SIDING (OR EQUAL) 36'-4" 1. Deck posts min. 4'-0" above grade are to be knee or diagonally braced per Appendix M. fastening to house will be by nailer with 5/8" galvanized bolts @ 20" o.c. and 12d hot dipped galv. @ 42" o.c.

Corners shall be braced with one of the approved methods as outlined in R602.10.3.

3. Structural members fastening to conform to Table R602.3(1) and 2. - 16" - UP TO 2-1/2 STORY - 18" - 3 STORY 22'-10" 7'-6" BRICK VENEER - 16" - 1 STORY - 20" - 2 STORY - 24" - 3 STORY FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA Table R602.3(1) and (2).

4. Girders and piers shall bear on center 1/3 of pier and footing, respectively.

5. 2018 NC State Residential Building Code apply to the construction of footings.

6. Typical lug footing to be 18"x 8"deep, (UND)

7. Pressure treated wood shall be installed for exterior use. RESIDENTIAL CODE TABLE R404.I.I (I THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF.
CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR 7. Pressure treated wood shall be installed for exterior use.
8. Hanger Schedule (Simpson hangers) for beam to beam connections (UNO)
a. (2)2x10's: LUS2'0-2
b. (3)2x10's: LUS2'0-3
c. (2)9-1/4 LVL's: HUS410
9. Concrete shall have min. 28 day strength of 3000 psi and max. Slump of 5 inches unless noted otherwise (UNO). Air entrained per Table 4022. All concrete shall be proportioned, mixed, handled, sampled, tasted, and placed in UNSTABLE SOILS ARE ENCOUNTERED. 4" CONC SLAB ATTACH SILL PLATE WITH 1/2"dia. ANCHOR BOLTS AT 6'-0" CENTERS (7" EMBEDMENT) AND 12" FROM EACH PLATE END. (SECTION R 403.1.6) 4 " TESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING handled, sampled, tested, and placed in accordance with ACI current standards. All samples for pumping shall be taken from the exit POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL. pump.

10. 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 18"X8" CONC. FT. 5 ABBREVIATIONS: "SJ" = SINGLE JOIST "DJ" = DOVBLE JOIST "TJ" = TRIPLE JOIST $\fbox{6}$ (4) 2 x IO SPF #2 GIRDER, TYPICAL UNO. THIS PAGE CONTROL JOINTS AS NEEDED 9'-4" 4" CONC SLA DROP SLAB THERE AS NEEDED PLUMBER MUST SITE VERIFY ALL PLUMBING FIXTURES BEFORE FOR ZERO ENTRY SHOWER FLUMBING CENTERS SIDING AS _ SPECIFIED 8'-0" _1/2" ANCHOR BOLTS @ 6" O.C. MAX. 7" CONCRETE EMBEDMENT INSULATE AS PER CODE 3000 P.S.I. AIR ENTRAINED 4" CONC SLAB w/ 6"x6" WI.4 X WI.4 WWR OR FIBER GRADE -MEGH REINFORCEMENT OVER 6 MIL VAPOR BARRIER OVER 4" CRUSHED STONE FILL OVER COMPACTED FILL OR UNDISTURBED SOIL 6 MIL VAPOR BARRIER BETWEEN BASE COURSE AND SLAB 4" GRAVEL BASE COURSE WHERE REQUIRED BY SUBGRADE SECTION THROUGH MONOLITHIC SLAB/ FOOTING SCALE 1/2" = 1'-0" DROP PORCH SLAB CONTROL JOINTS AS NEEDED 24"X24"X8" CONC FOOTING UNDER MASONRY 30'-4" 4'-0"

MONOLITHIC SLAB PLAN

36'-4"

SCALE 1/4" = 1'-0"



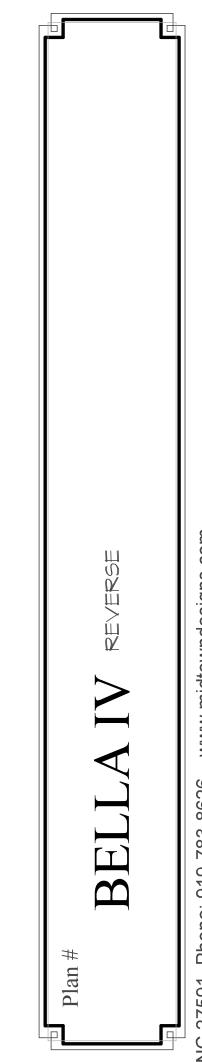
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10/19/2023 PROJECT #

231005

FOUNDATION STRUCTURAL NOTES: ig(1ig) (3) 2 x IO SPF #2 GIRDER DROPPED TYPICAL UNO. 2 CONCRETE BLOCK PIER SIZE SHALL BE: SIZE HALLOW MASONRY SOLID MASONRY 8 × 16 UP TO 32" HIGH UP TO 5'-0" HIGH 12 × 16 UP TO 48" HIGH UP TO 9'-0" HIGH 16 x 16 UP TO 64" HIGH UP TO 12'-0" HIGH 24 x 24 UP TO 96" HIGH WITH 30" \times 30" \times 10" CONCRETE FOOTING, UNO. (3) WALL FOOTING AS FOLLOWS: 8" - UP TO 2-1/2 STORY 10" - 3 STORY DEPTH: 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.I.I (I THRU 4) 22'-10" 7'-6" 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 (7" EMBEDMENT) AND 12" FROM EACH PLATE END. (SECTION R 403.1.6) 4 " Tesignates a significant point LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR 4" CONC SLAB MORE STUDS TO FND, TYPICAL. 5 ABBREVIATIONS: "SJ" = SINGLE JOIST "DJ" = DOVBLE JOIST "TJ" = TRIPLE JOIST igg(6igg) (4) 2 x IO SPF #2 GIRDER, TYPICAL UNO. 18"X8" \ CONC. FT. THIS PAGE **FOUNDATION NOTES:** 1. Dack posts min. 4'-0" above grade are to be knee or diagonally braced per Appendix M. fastening to house will be by nailer with 58' galvanized bolts @ 20' o.c. and 12d hot dipped galv. @ 42" o.c. 2. Corners shall be braced with one of the approved methods as outlined in R602.10.3. 3. Structura members fastening to conform to Table R602.3(1) and (2). 4. Girders and piers shall bear on center 1/3 of pier and footing, respectively. 5. 2018 NC State Residential Building Code apply to the construction of footings. 6. Typical lug footing to be 18"x 8"deep, (UNO) 7. Pressure treated wood shall be installed for exterior use. 8. Hanger Schedule (Simpson hangers) for beam to beam connections (UNO) a. (2)2x10's: LUS210-2 b. (3)2x10's: LUS210-3 c. (2)9-1/k LV1.s: HUS410 9. Concrete shall have min. 28 day strength of 300 psi. and max. Slump of 5 inches unless oxed otherwise (UNO) Air entrained per Table 4022. All concrete shall be proportioned, mixed, handed, sampled, tested, and placed in accordance with ACI current standards. All CONTROL JOINTS AS NEEDED 9'-4" handed, sampled, tested, and placed in accordance with ACI current standards. All samples for pumping shall be taken from the exit DROP SLAB pump. 10. 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 THERE AS NEEDED PLUMBER MUST SITE VERIFY ALL PLUMBING FIXTURES BEFORE FOR ZERO ENTRY SHOWER adequate drainage, and shall be graded so as to drain surface water away from foundation walls 4" CONC. SLAB OVER COMPACTED FILL AS REQ'D 1/2" DIA. ANCHOR BOLTS @ 6'-O" O.C. AND WITHIN 12" OF PLATE ENDS (EMBED 7") 4'0" OC IN 130 MPH ZONE 8" CMU HEADER BLOCK OR 4" BRICK — 8" CMU WALL (HEIGHT WILL VARY) — OR 4" CMU W 4" BRICK VENEER INSULATE PER CODE 3000 P.S.I. AIR ENTRAINED 4" CONC SLAB w/ 6"x6" WI.4 X WI.4 WWR OR FIBER MESH REINFORCEMENT OVER 6 MIL VAPOR BARRIER OVER 4" CRUSHED STONE FILL OVER COMPACTED FILL OR UNDISTURBED SOIL FLUMBING CENTERS HORIZ. REINFORCEMENT AS REQ'D. SLAB FND. W/ STEM WALL A DROP PORCH SLAB CONTROL JOINTS AS NEEDED 24"X24"X8" CONC FOOTING UNDER MASONRY 30'-4" 4'-0" 36'-4"



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10/19/2023

PROJECT #

231005

FOUNDATION PLAN (STEM WALL)

SCALE 1/4" = 1'-0"

STRUCTURAL NOTES:

- 1. Framing lumber shall be #2 SPF (modulus of of elasticity 1,100,000 psi, fb 950). All beams & treated lumber to be #2 SYP, E=1,600,000, fb=1100 min. Studs min.#2 or stud grade. 2. 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. 3. Structural members fastening to conform to
- Table R602.3(1) and (2). 4. Roof Framing Notes: a. Dbl Hips may be spliced with a min, 6'-0"
- overlap at center. No valley splices b. Use 2x10 or fir down rafters for vaulted areas c. Attach vaulted rafters with hurricane connectors: Simpson H-2.5, H-5 or approved
- 5. All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations or 2015 IBC. 6. Structural Engineer is not responsible for and will not
- control of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction work
- 7. Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the contract document.

FRAMING NOTES:

- 1. Design Loads (R301.5) Live Loads Dead Rocms not for Sleeping Sleeping Rooms
 Attic w/Permanent Stairs
 Attic w/o Permanent Stairs Attic w/o Storage Stairs Exterior Balconies Guardrails & Handrails 200 Passenger Vehicle Garages 50 Fire Escapes 40
- Snow 20 Wind Load: (Refer to Table R301.2.4)
- Wind Load: (Refer to Table R301.2.4)
 Verify Zone before Construction
 Wake County 115 mph
 2. 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.
 Latera bracing shall be satisfied per method 3
 by continuously sheathing walls with structural by continuously sheathing walls with structural sheathing per Table 601.3. Note that any specific
- sneathing per lable 601.3. Note that any specific bracec wall detail shall be installed as specified.

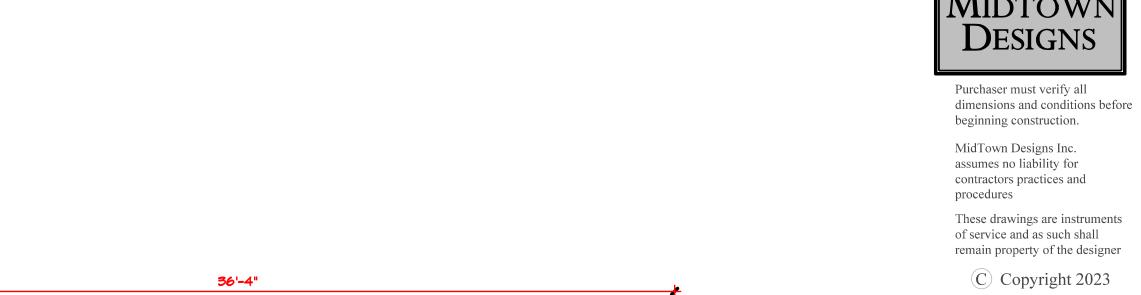
 3. All framing lumber shall be SPF#2 (Fb=875 psi) unless otherwise noted (UNO). All treated lumber shall be SYP#2 (Fb=975 psi). Plate material may be SPF#3 or SYP#3 (Fc (perp.) = 425 psi m.n.)

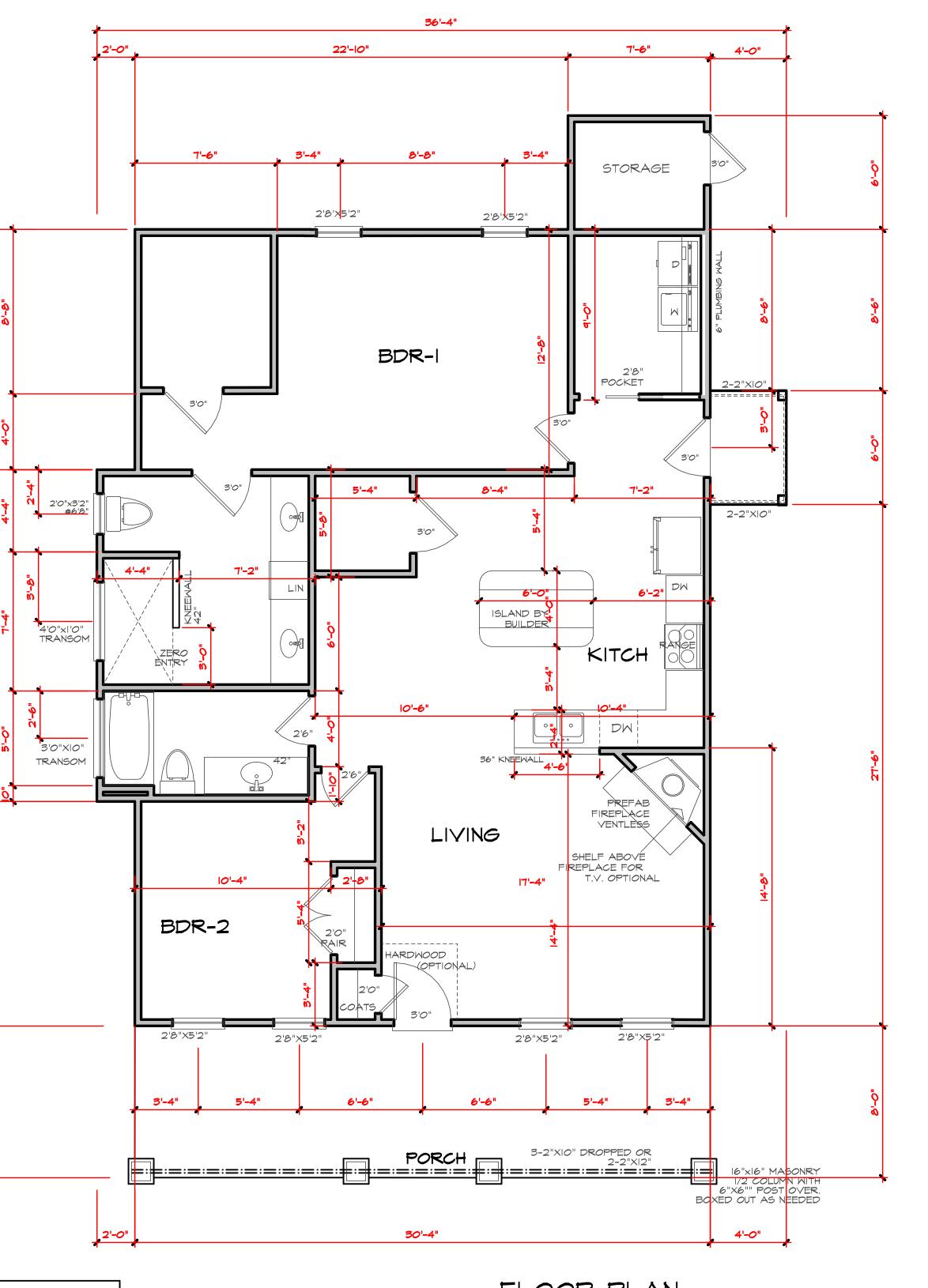
 4. All exterior headers to be (2)2x10 spf. u.n.o w/ dbl. Jacks for all openings >5'-0".

 5. All interior bearing headers to be (2)2x10 u.n.o. w/ dbl. jacks for all openings >4'-6" use (2)2x8
- w/ dbl. jacks for all openings >4'-6", use (2)2x8 w/ dbl. Jacks for all openings >3'-0" u.n.o.
 6. All interior non-bearing headers to be min. (2)2x4
- flat u.n.o.
 7. Fireblock to conform with R602.8

HEADER/BEAM & COLUMN NOTES I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (4" WALL) OR (3) 2x10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.

- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOI COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020:
- UP TO 3' SPAN: (I) KING STUD OVER 3' UP TO 6' SPAN: (2) KING STUDS OVER 6' UP TO 9' SPAN: (3) KINGS STUDS OVER 9' UP TO 12' SPAN: (4) KING STUDS OVER 12' UP TO 15' SPAN: (5) KING STUDS





SQUARE FOOTAGE 1,306 SQ.FT. FIRST FLOOR 45 SQ.FT. STORAGE 242 SQ.FT. FRT. PORCH

NOTE! TRUSS MANUFACTURER TO SIZE ALL STRUCTURAL MEMBERS.

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

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BEI

10/19/2023 PROJECT #

231005

12/3.5 SHED

NC (2018 NCRC): Wind: 115-120 mph I.TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS, ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH ENGINEER OF RECORD

TRUSS SYSTEM REQUIREMENTS

2.TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER. 3.ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO). 4.ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

ROOF TRUSSES BY OTHERS ROOF PLAN

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10/19/2023 PROJECT #

I) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION (2018 IRC), PLUS ALL LOCAL CODES AND REGULATIONS.

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.

2) DESIGN LOADS SEE TABLE R301.5

WIND SPEED: (REFER TO TABLE R301.2.4) VERIFY ZONE BEFORE CONSTRUCTION.

3) WALL BRACING: WALLS SHALL BE BRACED ALONG BRACED WALL LINES ACCORDING TO SECTION R602.10. THE AMOUNT, LOCATION, AND CONSTRUCTION OF BRACING SHALL COMPLY WITH R602.10. NOTE THAT THE BRACING SHOWN ON THE PLANS IS BASED ON THE PRESCRIPTIVE BRACING REQUIREMENTS OF THE CODE AND SHALL BE VERIFIED AND/ORAPPROVED BY THE CODE OFFICIAL.

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIT ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.

5) ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.

6) ALL FRAMING LUMBER SHALL BE SPF #2(FB = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP #2 (FB=975 PSI) PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (FC(PERP) = 425 PSI - MIN). 7) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (I) 2X4 STUD COLUMN FOR 6'-0" MAX. BEAM SPAN (UNO), (2)2X4 STUDS FOR BEAM SPAN GREATER THAN 6'-0" (UNO).

8) L.V.L SHALL BE LAMINATED VENEER LUMBER: FB=2600 PSI, FV=285 PSI, E=1,900,000 PSI. P.S.L SHALL BE PARALLEL STRAND LUMBER: FB=2900 PSI FV=290 PSI, E=2,000,000 PSI. L.S.L SHALL BE LAMINATED STRAND LUMBER: FB=2250 PSI, FV=400 PSI, E=1,550,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

9) ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

IO) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER X 4" LONG). LATERAL SUPORT IS CONSIDERED ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.

II) REBAR SHALL BE DEFORMED STEEL. ASTM615, GRADE 60.

12) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX). AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.

13) BRICK LINTELS SHALL BE 3 1/2"X3 1/2"X1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"X4"X5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO

14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS SEE R301.2(6)

DWELLING / GARAGE SEPARATION

REFER TO SECTIONS R302.5, R302.6, AND R302.7 WALLS. A minimum 1/2" gypsum board must be installed on all walls supporting

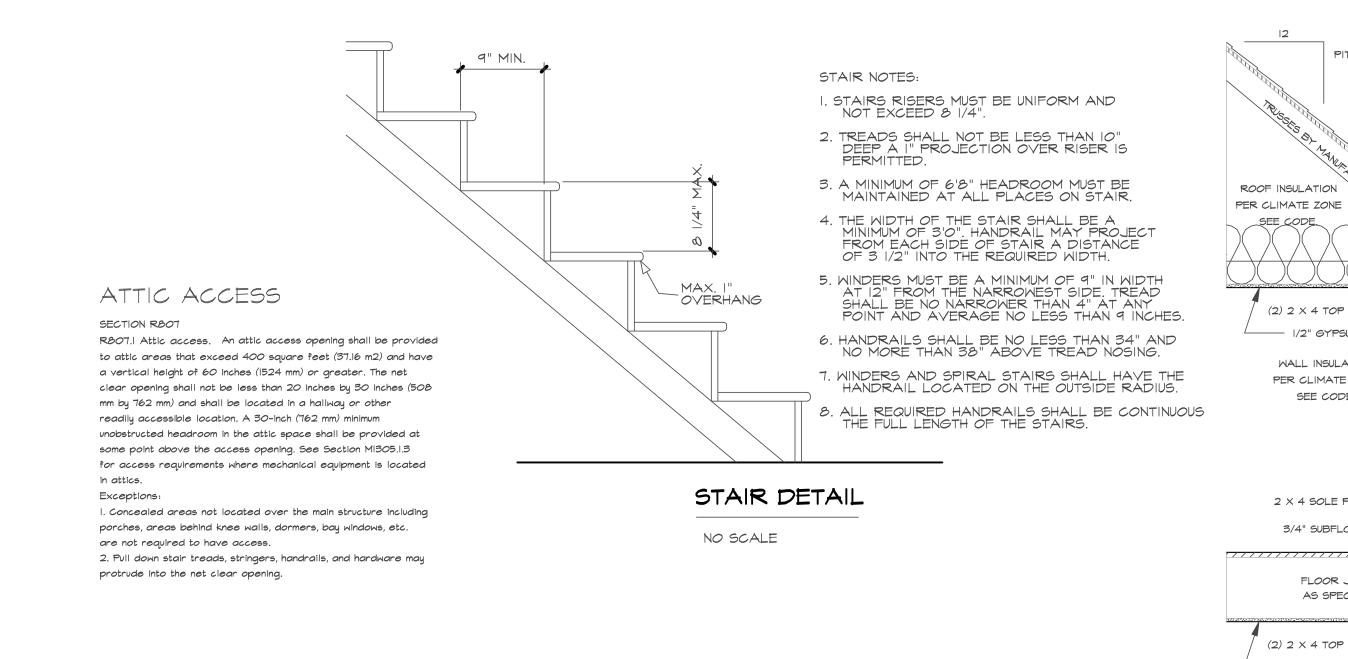
fire-rated doors.

floor/ceiling assemblies used for separation required by this section. STAIRS. A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.

CEILINGS. A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling. OPENING PENETRATIONS. Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute

DUCT PENETRATIONS. Ducts in the garage and ducts penetrating the walls or ceilings separating the *dwelling* from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

OTHER PENETRATIONS. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.



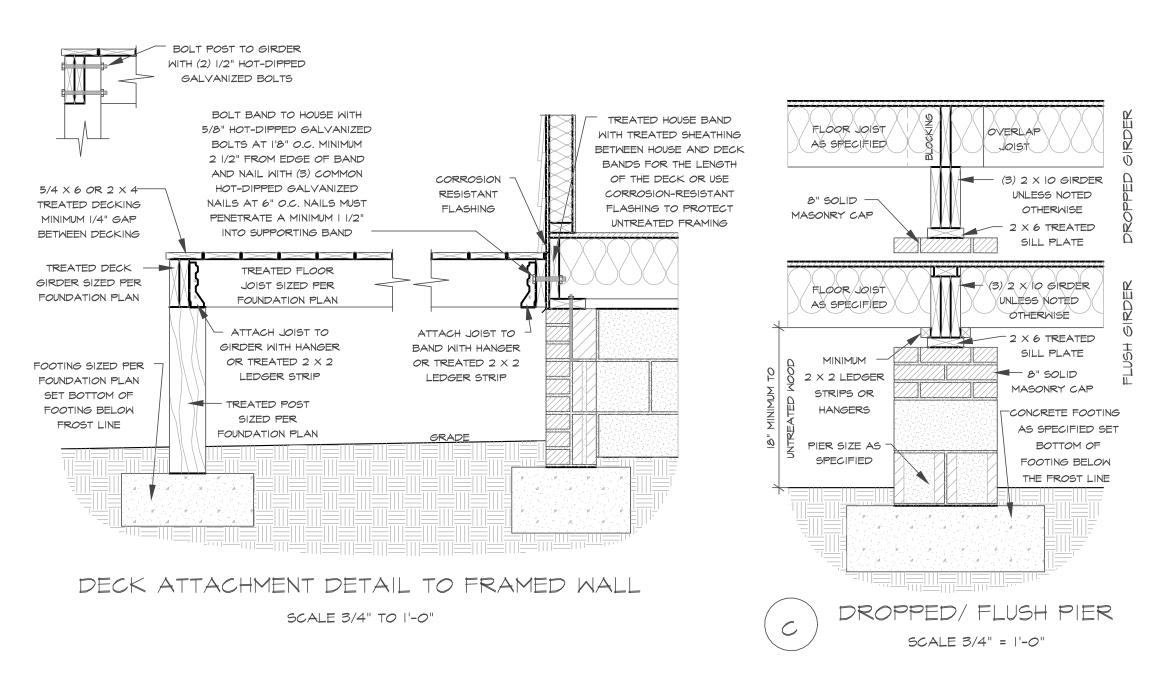


TABLE R402.1.2

0.030

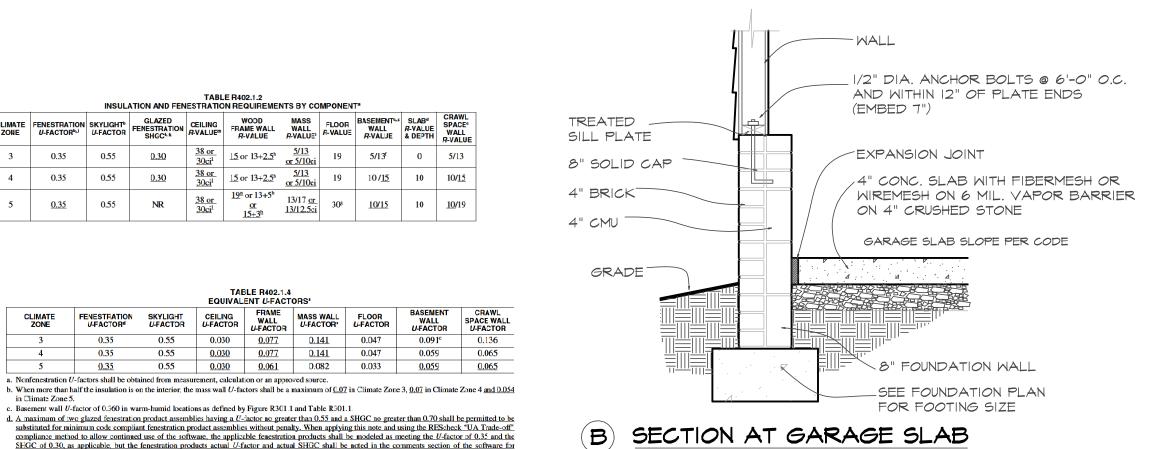
SFGC of 0.30, as applicable, but the fenestration products actual *U*-factor and actual SFGC shall be noted in the comments section of the software for documentation of application of this note to the applicable products. Compliance for these substitute products shall be verified compared to the allowed substituted maximum *U*-value requirement and maximum SFGC requirement, as applicable.

0.55

0.30

0.35

5 <u>0.35</u> 0.55



(D) SECTION AT CRAWL

TYPICAL WALL SECTION SCALE 3/4" = 1'-0" 2" X 4" STUDS SUBFLOOR -BAND -TREATED SILL 8" SOLID MASONRY CAP J/2" DIA. ANCHOR BOLTS @ 6'-0" O.C. AND WITHIN 12" OF PLATE ENDS 4" BRICK -(EMBED 7") 4" CMU---FINISH GRADE 8" CMU ---SEE FOUNDATION PLAN FOR FOOTING SIZE -

PITCH PER ROOF PLAN

- SHINGLES AS SPECIFIED

/ 15# BUILDING FELT

-SHEATHING AS SPECIFIED

- INSULATION BAFFLE

SOFFIT

SOFFIT VENTING

OPTIONAL I X 4 FRIEZE

SIDING AS SPECIFIED

2 X 4 STUDS AT 16" O.C.

SHEATHING

AS SPECIFIED

SIDING AS

- 8" SOLID

MASONRY

CAP

4" CONCRETE

BLOCK

- 4" BRICK

VENEER

GRADE

SHEATHING AS SPECIFIED

UNLESS NOTED OTHERWISE

■I X 8 FASCIA

SEE PLAN AND

ROOF PLAN FOR

RAFTER AND TRUSS

FRAMING DETAILS

OR ELEVATIONS

(2) 2 X 4 TOP PLATE -

WALL INSULATION

PER CLIMATE ZONE

SEE CODE.

2 X 4 SOLE PLATE

3/4" SUBFLOOR -

(2) 2 X 4 TOP PLATE -

WALL INSULATION

PER CLIMATE ZONE

SEE CODE.

2 X 4 STUDS -

AT 16" O.C.

UNLESS NOTED

OTHERWISE

FLOOR JOIST

2 X 6 TREATED -

SILL PLATE

1/2" DIAMETER ANCHOR

BOLTS AT 6'0" O.C. AND

BOLTS PER SILL

WITHIN 12" OF PLATE ENDS

EMBEDDED 7" MINIMUM TWO

CONTINUOUS CONCRETE

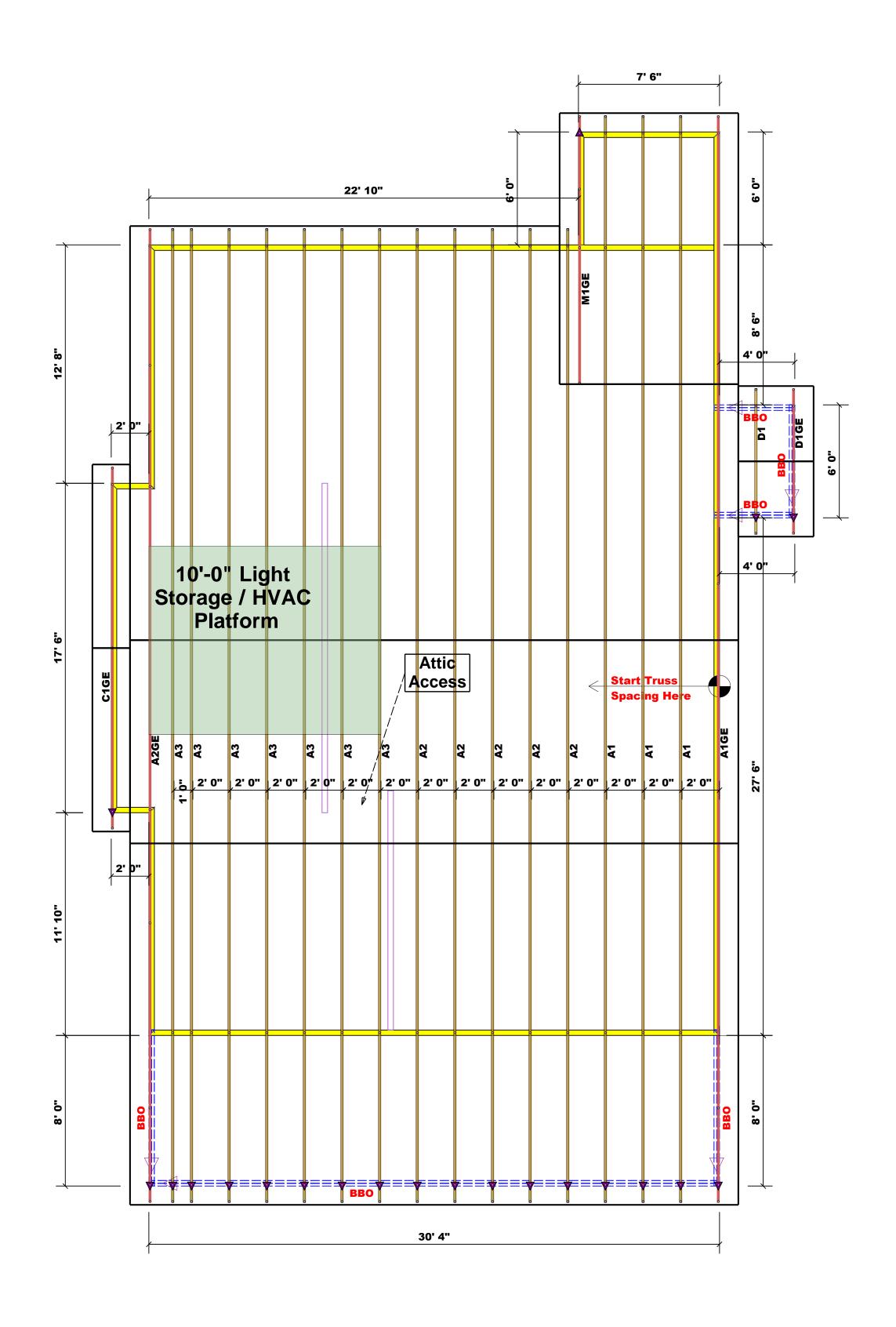
FOOTING AS SPECIFIED

SET BOTTOM OF FOOTING BELOW THE FROST LINE

— 1/2" GYPSUM -

FLOOR JOISTS AS SPECIFIED

---- 1/2" GYPSUM '



Estimation

Name Selection Formula Calculation

Roof Area 1st Floor Roof Area 1965.04

Roof Decking 1st Floor Roof Decking 68

Truss Placement Plan SCALE: 1/4" = 1'-0"

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

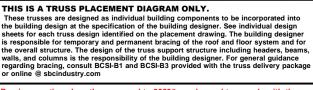
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs.

Reaction / # of Studs

_	LOAD CHART FOR JACK STUDS								
(BASED ON TABLES R502.5(1) & (b))									
	NU/	NBER C		STUDS P			A END OF	•	
	END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER	
	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	a							

(+) 7.23 MEADER	BUILDER	Weaver Homes, Inc.	CITY / CO.	Lillington / Harnett	THIS IS A These trus the building
	JOB NAME	Lot 5 Maple Hill	ADDRESS	4166 Darroch Road	sheets for e is responsil the overall walls, and o regarding b
	PLAN	Bella IV	MODEL	Roof	or online @ Bearing re prescriptiv
SEAL DATE		Seal Date	DATE REV.	/ /	(derived foundation than 3000# be retained
	QUOTE#	Quote #	DRAWN BY	Lenny Norris	specified i retained to
	JOB#	J1024-5772	SALES REP.	Lenny Norris	Signatu



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 (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. 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 15000#.

Reilly Road Industrial Parl Fayetteville, N.C. 28309

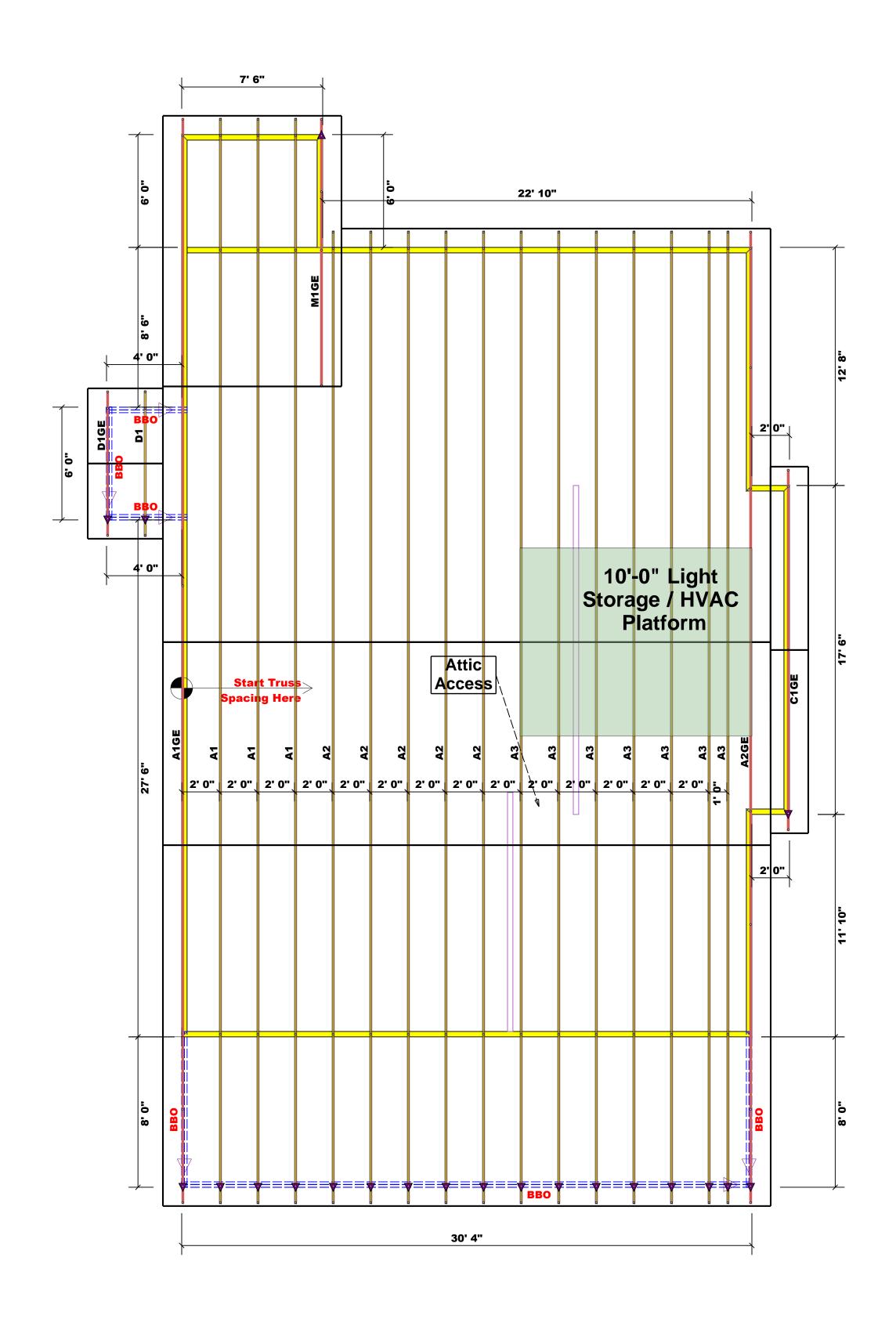
Lenny Norris

Reilly Road Industrial Parl Fayetteville, N.C. 28309

Phone: (910) 864-8787

Fax: (910) 864-4444





Estimation Formula Calculation Name Selection 1965.04 Roof Area Roof Area 1st Floor 68 **Roof Decking** 1st Floor **Roof Decking**

Truss Placement Plan SCALE: 1/4" = 1'-0"

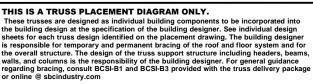
▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

LO	AD (CHAR	T FO	R J	ACK :	STUD	s	
(BASED ON TABLES R502.5(1) & (b))								
NUMBER OF JACK STUDS REQUIRED @ EA END O HEADER/GIRDER							:	
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER	
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	0							

(+) 7.23 MEADER	BUILDER	Weaver Homes, Inc.	CITY / CO.	Lillington / Harnett	THIS IS A These trus the building
	JOB NAME	Lot 5 Maple Hill	ADDRESS	4166 Darroch Road	sheets for e is responsil the overall walls, and o regarding b
	PLAN	Bella IV	MODEL	Roof	or online @ Bearing re prescriptiv
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	JOB#	J1024-5772	SALES REP.	Lenny Norris	Signati



Lenny Norris

Lenny Norris



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