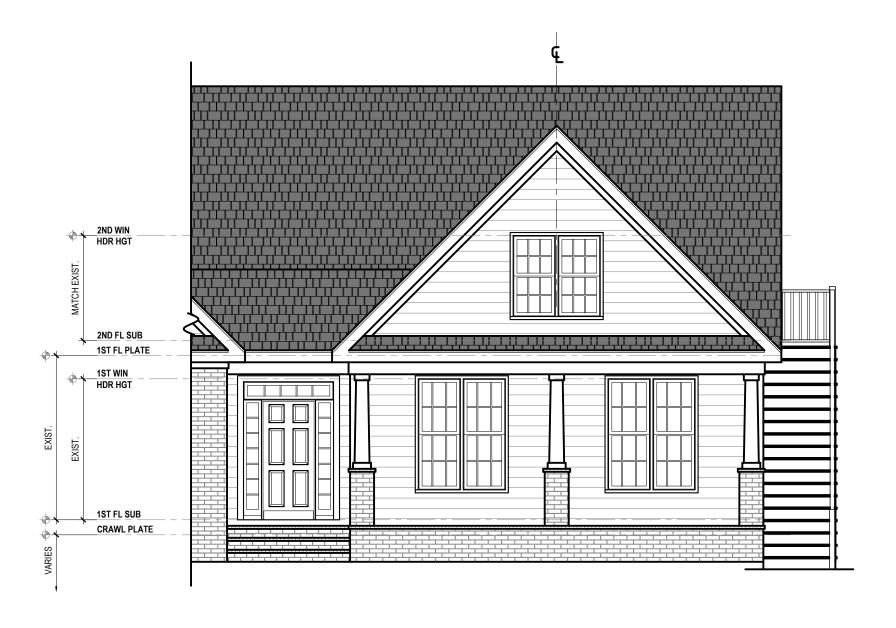
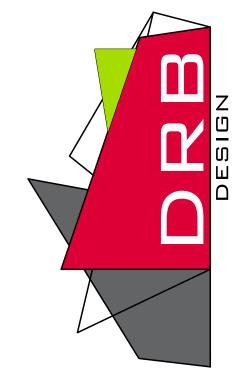
SHENK ADDITION

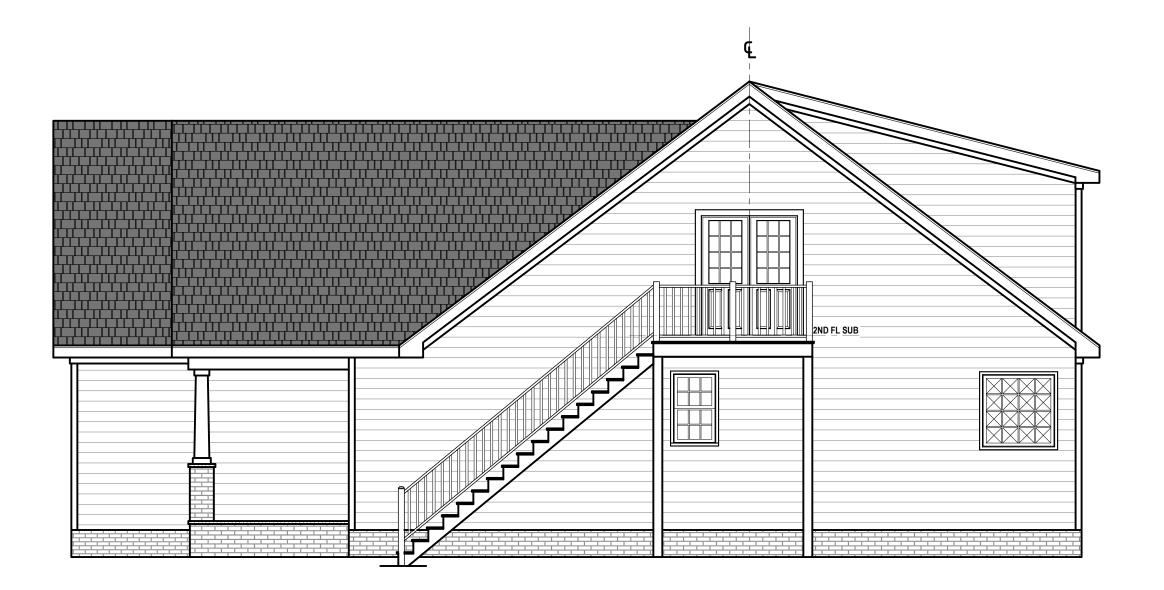


- 1. DRB DESIGN assumes no liability for any home constructed from this plan.
- 2. All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code", in addition to all local codes and regulations.
- 3. Should these plans require structural calculations for permitting the contractor shall be required to obtain the services of a structural engineer after notifying DRB DESIGN that such services are required.
- 4. Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN.
- 5. Design and construction are complex and, although the designer performed his services with due care and diligence, perfection is not a guarantee.
- Communication is imperfect and every contingency cannot be anticipated.
 Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to DRB DESIGN. Failure to notify the DRB DESIGN compounds misunderstandings and increases construction costs.
- 8. A failure to cooperate by a simple notice to DRB DESIGN shall relieve the designer from any and all responsibilities for all consequences.
- 9. Changes made to these plans without the consent of the designer are unauthorized and shall relieve DRB DESIGN of responsibility for any and all consequences arriving out of such changes.
- DESIGN of responsibility for any and all consequences arriving out of such changes.

 Written dimensions on these plans always have precedence over scaled dimensions.
- 11. It is the contractors responsibility to verify and be responsible for all dimensions and square footage prior to construction, as well as conditions on the job site. DRB DESIGN is not responsible for dimension and square footage errors once construction has begun.
- 12. DRB DESIGN must be notified of any variations from the dimensions and conditions shown on these drawings.







RIGHT ELEVATION
3/16" = 1'-0"

DESIGN drbhomedesign.com

04/18/2024

DESIGNED BY

CHECKED BY

6 Deer Path Farms Rd. Erwin, NC 28339 (605) 786-4626

SHEET NAME
ELEVATIONS
SHEET #

of 2

HEATED SQUARE FOOTAGE Second Floor Add. 1000 TOTAL HEATED 1000 TOTAL SQ FT 1000

EXISTING WALLS

NEW WALLS

EXISTING WALLS TO BE REMOVED

NOTE: FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION

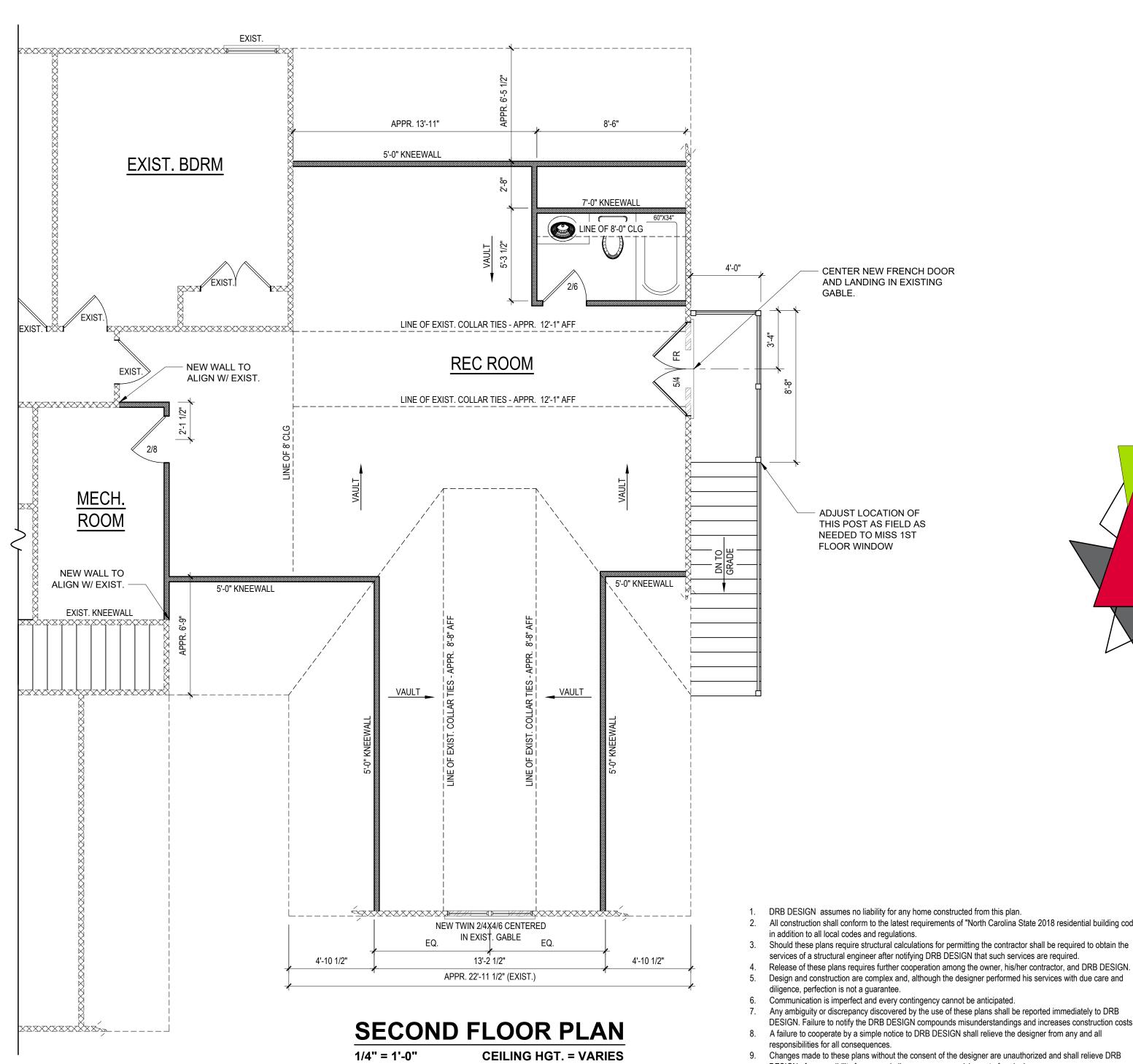
ALL DOORS ARE ?'-?" TALL UNO

ALL EXTERIOR WALLS ARE NOMINAL 4" UNO

ALL INTERIOR WALLS ARE NOMINAL 4" UNO

ALL ANGLED WALLS ARE 45° UNO

ALL DIMENSIONS ARE FRAME TO FRAME



DRB2301-0031 B 04/18/2024 DESIGNED BY CHECKED BY DRB SCALE

7. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to DRB DESIGN. Failure to notify the DRB DESIGN compounds misunderstandings and increases construction costs.

8. A failure to cooperate by a simple notice to DRB DESIGN shall relieve the designer from any and all responsibilities for all consequences.

services of a structural engineer after notifying DRB DESIGN that such services are required.

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1. DRB DESIGN assumes no liability for any home constructed from this plan.

6. Communication is imperfect and every contingency cannot be anticipated.

in addition to all local codes and regulations.

diligence, perfection is not a guarantee.

CENTER NEW FRENCH DOOR AND LANDING IN EXISTING

ADJUST LOCATION OF

THIS POST AS FIELD AS NEEDED TO MISS 1ST FLOOR WINDOW

11. It is the contractors responsibility to verify and be responsible for all dimensions and square footage prior to construction, as well as conditions on the job site. DRB DESIGN is not responsible for dimension and square footage errors once construction has begun.

2. All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code",

Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN.

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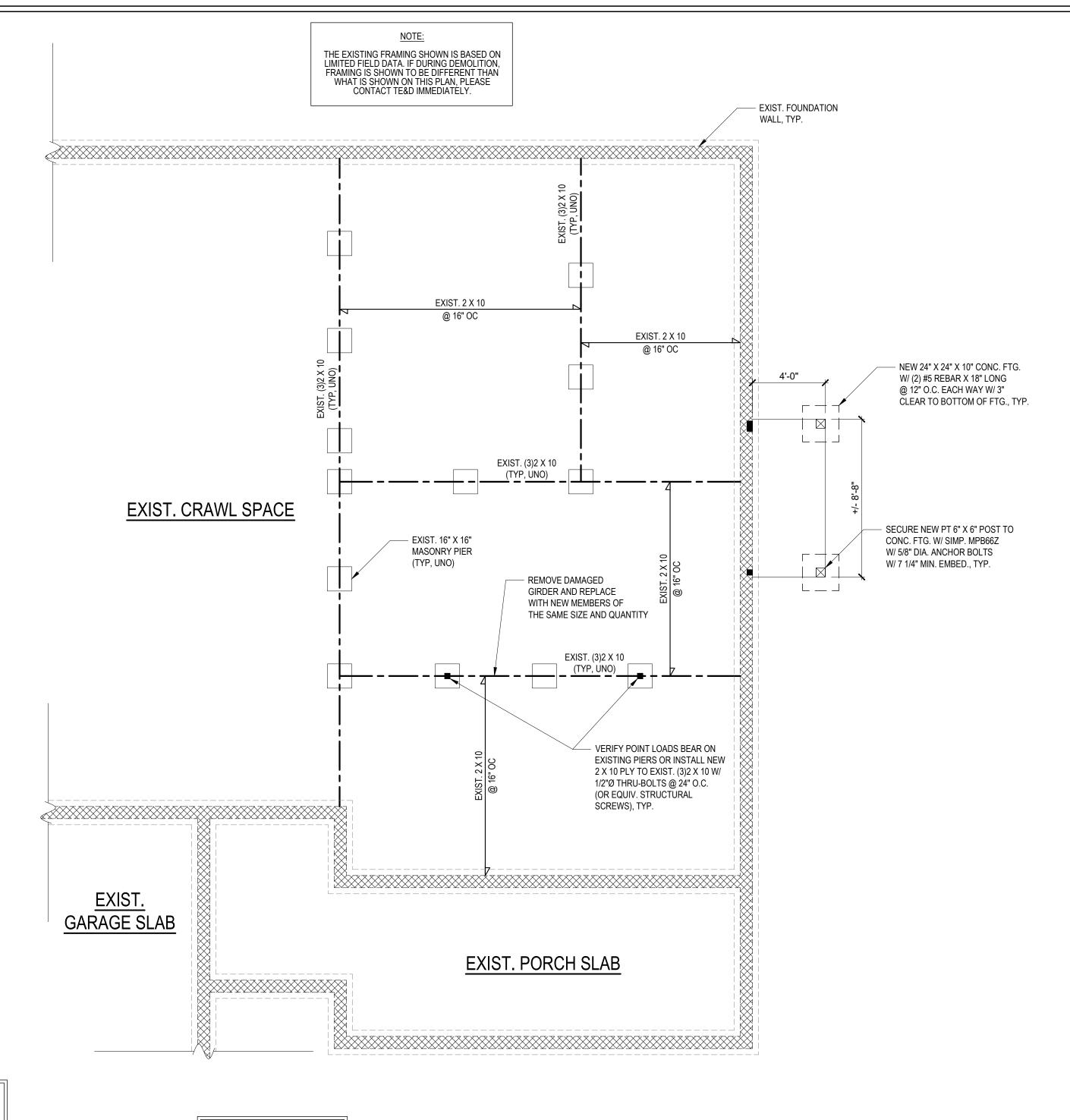
12. DRB DESIGN must be notified of any variations from the dimensions and conditions shown on these drawings.

2ND FLOOR SHEET #

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
	(/	(* 5. /	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
FLOOR (secondary)	40	10	L/360	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/360	L/240	
ROOF	20	10 L/		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:

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- ALL LUMBER SHALL BE SYP #2 (UNO)
 ALL LVL LUMBER TO BE 1.75" WIDE (ACTUAL) EACH SINGLE MEMBER AND FB = 2600
 PSI, E = 1.9M PSI (OR GREATER)
- (I.E. ILEVEL MICROLAM)
- ALL LSL LUMBER IS TO BE 1.55E (FB = 2325 PSI) (OR GREATER)
 ALL PSL LUMBER IS TO BE 1.8E (FB = 2,400 PSI) (OR GREATER)
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1)
- ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) 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'-0" IN HEIGHT.
- ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50
- Fy = 50 KSI MIN. (UNO) ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE, fc = 3000 PSI MIN.
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" 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.
- 12) 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. (U.N.O.)
- PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 NCRC. MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE
- 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL



NOTE: ADDITIONAL JOISTS

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

*NOTE: SECURE 4-PLY W/ 1/2"Ø THRU-BOLTS @ 24" O.C. (OR EQUIV. STRUCTURAL SCREWS)

FOUNDATION PLAN

1/4" = 1'-0"

* Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.

* Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability.

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TYNDALL ENGINEERING & DESIGN, P.A.



TIMOTHY AND ELIZABETH 306 DEER PATH FARMS RD. ERWIN, NC 28339

E

DRB2301-0031B 04/22/2024 JA

DWG. Checked By: PTII

SEE PLAN

REVISIONS

Sheet Number

S1

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	ECTION	
	(,	(* 5. /	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
FLOOR (secondary)	40	10	L/360	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/360	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				

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- ALL LUMBER SHALL BE SYP #2 (UNO)
- ALL LVL LUMBER TO BE 1.75" WIDE (ACTUAL) EACH SINGLE MEMBER AND FB = 2600 PSI, E = 1.9M PSI (OR GREATER)
- (I.E. ILEVEL MICROLAM)
- ALL LSL LUMBER IS TO BE 1.55E (FB = 2325 PSI) (OR GREATER) ALL PSL LUMBER IS TO BE 1.8E (FB = 2,400 PSI) (OR GREATER)
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1)
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- REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
- ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 Fy = 50 KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
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- PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 NCRC. MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE
- 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL

STRUCTURAL SHEATHING NOTES

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- 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.
- 1 REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
- 4) 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)
- 2) 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ 5d COOLER NAILS (OR FOUAL PER TABLE R702.3.) 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/ 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- 5) EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- 6) 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 6d 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 - 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT. - 48" FOR OPENINGS GREATER THAN 85% OF

NOTE: ADDITIONAL JOISTS

INSTALL AN ADDITIONAL JOIST UNDER NON-LOAD BEARING

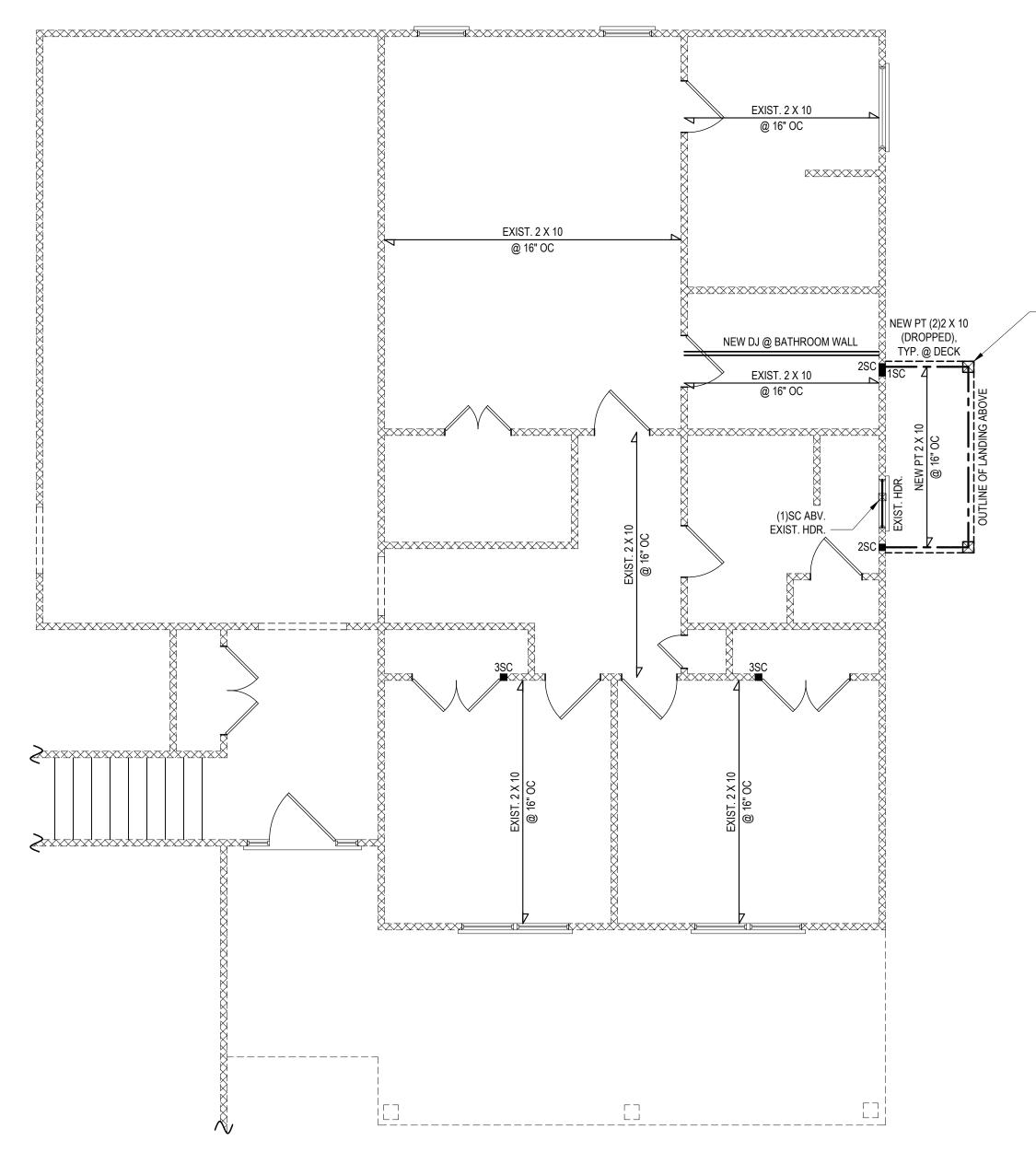
WALLS, BUILT-INS, AND CABINETRY ABOVE THAT ARE

PARALLEL TO THE FRAMING SYSTEM ON THIS PAGE, TYP

UNO, BUILDER TO INSTALL AS REQUIRED, VIF DIMENSIONS

- 4 SHEATH INTERIOR & EXTERIOR
- 8) FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALLLINE 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
- (5) MINIMUM 800# HOLD-DOWN DEVICE

THE EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD DATA. IF DURING DEMOLITION, FRAMING IS SHOWN TO BE DIFFERENT THAN WHAT IS SHOWN ON THIS PLAN, PLEASE CONTACT TE&D IMMEDIATELY.



FIRST FLOOR PLAN

CEILING HGT. = 9'-0"

1/4" = 1'-0"

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

- TABLE DENOTES REQUIRED MINIMUM NUMBER OF STUDS EE OF HEADER, TYP UNO ON PLANS
- NUMBER OF KING STUDS LISTED ABOVE ARE BASED 10' NOMINAL WALL HEIGHT, STUD SPACING OF 16" O.C., AND ULTIMATE WIND SPEED OF 120 MPH (EXPOSURE B)
- 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 TYNDALL ENGINEERING AND DESIGN IF HEADER SPANS EXCEED TABLE VALUES

NEW PT 6" X 6" POSTS W/ (2)SIMP. LCE4Z @ CORNER POSTS, TYP.

DRB2301-0031B

JA

SEE PLAN

REVISIONS

Sheet Number

TIMOTHY AND ELIZABETH 306 DEER PATH FARMS RD. ERWIN, NC 28339

means, methods, techniques, sequences, procedures or safety precaution.

Any deviations or discrepancies on

nterpret that all dimensions, recommente, presented in these documents were

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04/22/2024

DWG. Checked By: PTII

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION
	` ,	, ,	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
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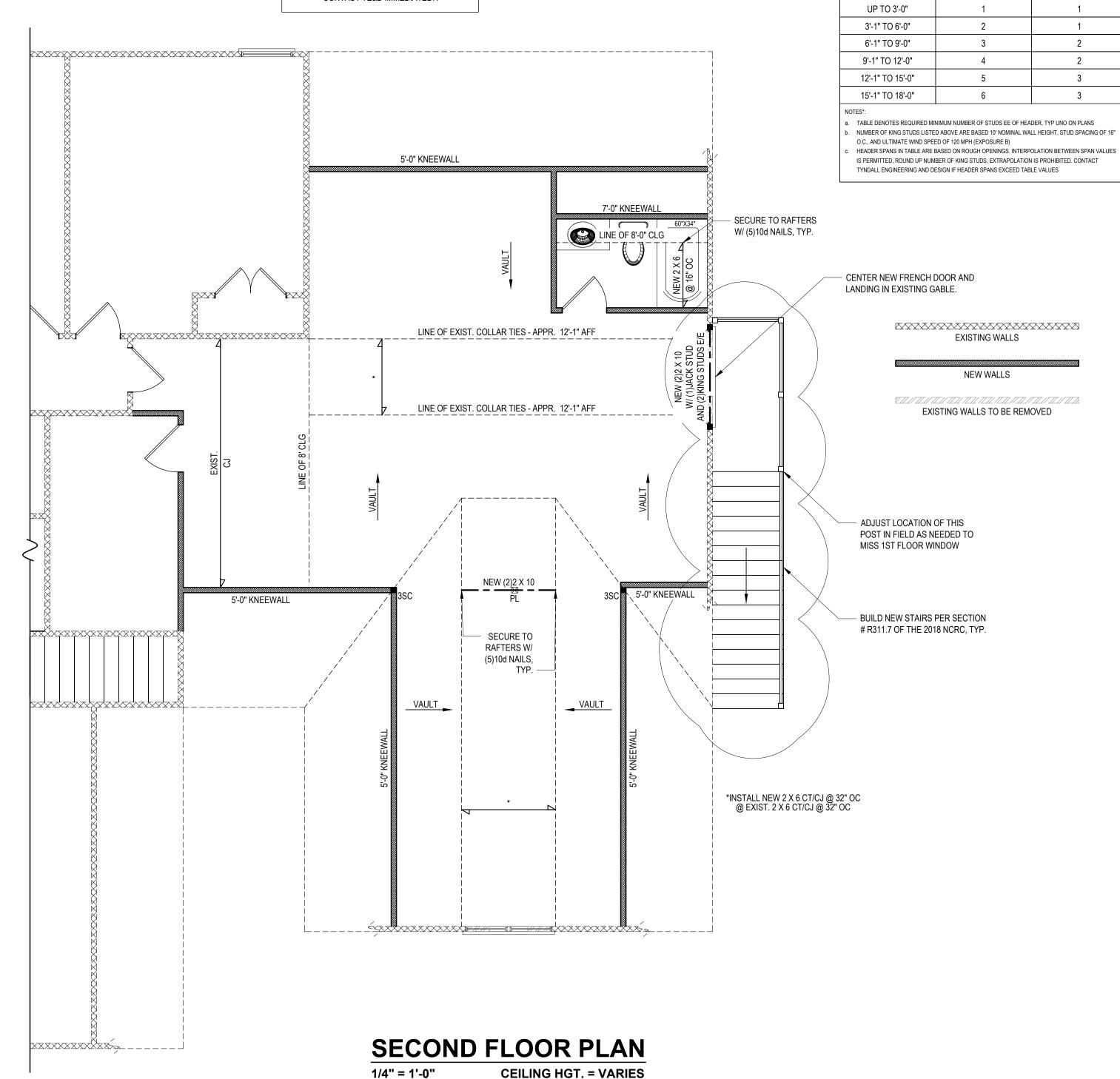
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Fyndall Engineering & Design, P.A. will terpret that all dimensions, reco tc. presented in these documents were

KING STUD SCHEDULE

2 X 4 STUD WALL

HEADER SPAN (FT)

MIN. # OF FULL HEIGHT STUDS (KING) E.E.

OF OPENING PER WALL DEPTH

2 X 6 STUD WALL

2

2

TYNDALL ENGINEERING & DESIGN, P.A.

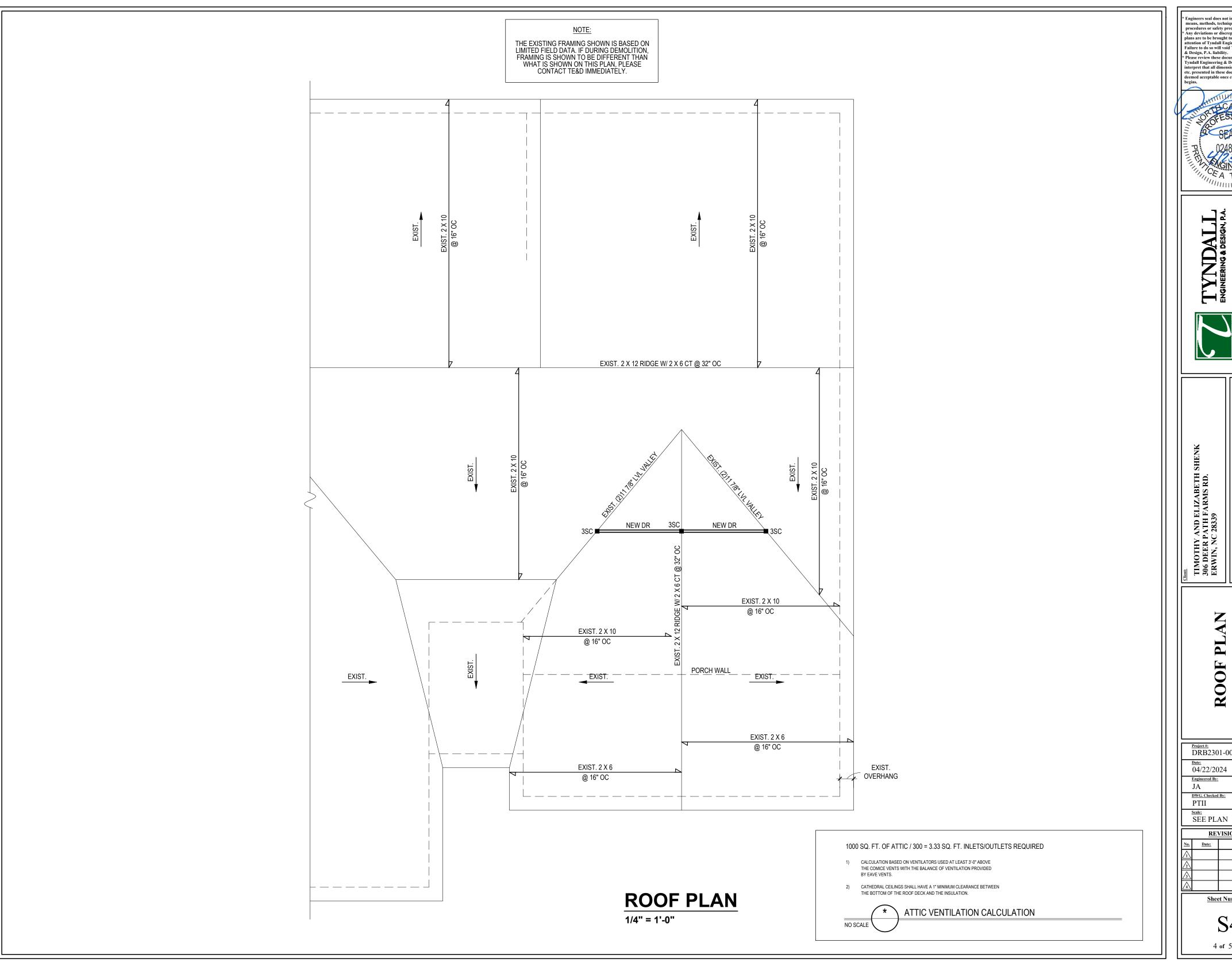
TIMOTHY AND ELIZABETH 306 DEER PATH FARMS RD. ERWIN, NC 28339

DRB2301-0031B 04/22/2024 JA DWG. Checked By: PTII

SEE PLAN

REVISIONS Date:

Sheet Number



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SHENK ADDITION

Project #: DRB2301-0031B Date: 04/22/2024

	REVISIONS						
No.	Date:	Remarks					
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Sheet Number

STRUCTURAL NOTES

1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING $\ensuremath{\mathsf{CODE}}\xspace$, in addition to all local codes and regulations.

2) DESIGN LOADS:

LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
(/	(, 5.)	LL	TL
40	10	L/360	L/240
30	10	L/360	L/240
20	10	L/240	L/180
10	5	L/240	L/180
40	10	L/360	L/240
20	10	L/240	L/180
20	20	L/240	L/180
BASED ON 120 MPH (EXPOSURE B)			
SEISMIC ZONES A, B & C			
	(PSF) 40 30 20 10 40 20	(PSF) (PSF) 40 10 30 10 20 10 10 5 40 10 20 10 20 20 BASED ON 120 Mi	(PSF) (PSF) LL 40 10 L/360 30 10 L/360 20 10 L/240 10 5 L/240 40 10 L/360 20 10 L/360 20 10 L/360 20 10 L/240 20 20 L/240 BASED ON 120 MPH (EXPOSURE B)

- 3) MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
- 4) CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED OTHERWISE. (U.N.O.)
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST FOUNDATION WALLS TO BE LESS THAN 4-0" WITHOUT USING SUFFICIENT WALL BRACING. REFER TO SECTION R404 OF 2018 NC BUILDING CODE FOR BACKFILL LIMITATIONS BASED ON WALL HEIGHT, WALL
- ALL FRAMING LUMBER SHALL BE SYP #2 (Fb = 800 PSI, BASED ON 2x10) UNO.
- ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL.
- ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI (U.N.O.) ALL LSL LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2325 PSI, E = 1.6M PSI (U.N.O.)
- ALL PSL LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2400 PSI, E = 1.8M PSI (U.N.O.)
- 7) ALL LOAD BEARING EXTERIOR HEADERS SHALL BE AT (2) 2x10. (U.N.O.) REFER TO TABLE R602.7(1) & (2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS UNLESS SPECIFICALLY NOTED ON PLANS.
- 8) ALL STRUCTURAL STEEL W-SHAPES (I-BEAMS) SHALL BE ASTM A992 GRADE 50.
- ALL STEEL ANGLES, PLATES, AND C-CHANNELS SHALL BE ASTM A36. ALL STEEL PIPE SHALL BE ASTM A53 GRADE B.
- STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO (2) LAG SCREWS (1/2" Ø x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOISTS ARE TOE NAILED TO THE SOLE PLATES, AND THE SOLE PLATES ARE NAILED OR BOLTED TO THE BEAM FLANGES @ 48" O.C.
- 10) PROVIDE ANCHOR BOLT PLACEMENT PER SECTION 403.1.6: 1/2"Ø ANCHOR BOLTS SPACED AT 6'-0" O.C. AND PLACED 12" FROM THE END OF EACH PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY. THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. THERE SHALL BE A MINIMUM TWO ANCHOR BOLTS PER PLATE SECTION.
- 11) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF NC BUILDING CODE.
- 12) WALL AND ROOF CLADDING VALUES: WALL CLADDING SHALL BE DESIGNED FOR 28.0 POUNDS PER SQUARE FOOT (LBS/SQFT) OR GREATER POSITIVE AND NEGATIVE PRESSURE. ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS: 39.0 LBS/SQFT FOR ROOF PITCHES 0/12 TO 1.5/12
 - 36.0 LBS/SQFT FOR ROOF PITCHES 1.5/12 TO 6/12 18.0 LBS/SQFT FOR ROOF PITCHES 6/12 TO 12/12

*MEAN ROOF HEIGHT 30'-0" OR LESS

- 13) FOR ROOF SLOPES FROM 2/12 THROUGH 4/12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER.
- 14) REFER TO SECTION R602.3 FOR FRAMING OF ALL WALLS OVER 10'-0" IN HEIGHT.
- 15) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.3 OF THE 2018 NCRC.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- 17) REFER TO TABLE N1102.1 FOR PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA
- 18) PSL COLUMNS DESIGNED WITH MAXIMUM HEIGHT OF 9'-0" (U.N.O.)
- 19) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- 20) MAXIMUM MASONRY PEIR HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- 21) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. YNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSION OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.

CLIMATE ZONES	FENESTRATION U-FACTOR b,j	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,k}	CEILING ^m R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE ⁱ	FLOOR R-VALUE	BASEMENT ^{c,©} WALL R-VALUE	SLAB ^d R-VALUE AND DEPTH	CRAWL SPACE ^C WALL R-VALUE
3	0.35	0.55	0.30	38 or 30 cont	15 or 13 + 2.5	<u>5/13 or</u> <u>5/10 cont</u>	19	<u>5/13</u> f	0	5/13
4	0.35	0.55	0.30	38 or 30 cont ^j	15 or 13 + <u>2.5</u> h	<u>5/13 or</u> <u>5/10 cont</u>	19	<u>10/15</u>	10	<u>10/15</u>
5	0.35	0.55	NR	38 or 30 cont	ⁿ <u>19, or 13 + 5</u> or 15 + 3	13/17 <u>or</u> 13/12.5 cont	30 ⁹	<u>10/15</u>	10	<u>10/19</u>

TABLE N1102.1 CLIMATE ZONES 3-5 NO SCALE

- 1. R-VALUES ARE MINIMUMS, U-FACTORS AND SHGC ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.
- (SHGC) COLUMN APPLIES TO ALL GLAZED FENESTRATION. c. **10/15" MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME
- OR R-15 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR CRAWL SPACE WALL. d. FOR MONOLITHIC SLABS, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM
- OF THE FOOTING OR A MAXIMUM OF 24" BELOW GRADE WHICHEVER IS LESS. FOR FLOATING SLABS, INSULATION SHALL EXTEND TO THE BOTTOM OF THE FOUNDATION WALL OR 24", WHICHEVER IS LESS. R-5 SHALL BE
- e. DELETED f. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE N1101.7 AND TABLE N1101.7.
- g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY. R-19 MINIMUM.
- h. THE FIRST VALUE IS CAVITY INSULATION, THE SECOND VALUE IS CONTINUOUS INSULATION, SO *13+5* MEANS R-13 CAVITY INSULATION PLUS R-5 INSULATED
- SHEATHING "19-5" MEANS R-15 GAVITY INSULATION PLUS R-3 INSULATED SHEATHING, IF STRUCTURAL SHEATHING COVERS 5% OR LESS OF THE EXTERIOR, INSULATING SHEATHING IS SHEATHING COVERS MORE THAN 25 PERCENT OF THE EXTERIOR, SHEAL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-2, "13 + 25" MEANS R-13 CAVITY
- i. FOR MASS WALLS, THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WALL E IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A U-FACTOR NO GREATER THAN 0.55 SHALL BE PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.
- k. IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A SHGC NO GREATER THAN 0.70 SHALL BE PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.
- PERMITTED TO BE SUBSTITUTED FOR MINIMUNIC COLD COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.

 I. R30 SHALE DE DEEMED TO SATISFY THE CEILING INSULATION REQUIRED WHERE ADEQUATE CLEARANCE EXISTS OR INSULATION MUST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN 1 INCH
 OF THE ATTIC ROOF DECK.

 III TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OF THE ROOF. THERE THE INSULATION MIST FILL THE SPACE UP TO THE ARRAFLE.

 III R-19 FIBERGLASS BATTS COMPRESSED AND INSTALLED IN A NOMINAL 2 × 6 FRAMING CAVITY IS DEEMED TO COMPLY. FIBERGLASS BATTS RATED R-19 OR HIGHER COMPRESSED
 AND INSTALLED IN A 26M WALL IS NOT DEEMED TO COMPLY.

- 0. BASEMENT WALL MEETING THE MINIMUM MASS WALL SPECIFIC HEAT CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT.

1000 SQ. FT. OF CRAWL SPACE / 150 = 6.67 SQ. FT. OF REQ'D VENTILATION WITHOUT CROSS VENTILATION 6.67 SQ. FT. OF VENTILATION REQ'D / 0.88 SQ.FT. PER VENT = 8.0 VENTS REQ'D (BASED ON 8" X 16" VENTS)1

-OR-

1000 SQ. FT. OF CRAWL SPACE / 1500 = 0.67 SQ. FT. OF REQ'D VENTILATION WITH CROSS VENTILATION 0.67 SQ. FT. OF VENTILATION REQ'D / 0.88 SQ.FT. PER VENT = 2.0 VENTS REQ'D (BASED ON 8" X 16" VENTS)2

- 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 CRAWL SPACE GROUND AREA WHERE THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE CRAWL SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE POPHIBITED. ONE FOUNDATION VENT SHALL BET WITH SPEET OF EACH CORNER OF THE BUILDING. TO PREVENT RANWATER ENTRY WHEN THE CRAWL SPACE IS BUILT ON A SLOPED SITE, THE UPHILL FOUNDATION WALLS MAY BE CONSTRUCTED WITHOUT WALL VENT OPENINGS. VENT DAMS SHALL BE PROVIDED WHEN THE BOTTOM OF THE FOUNDATION VENT OPENING IS LESS THAN 4 INCHES ABOVE THE FINISHED EXTERIOR GRADE.
- WALL VENTED CRAWL SPACES REQUIRE FULL COVERAGE GROUND VAPOR RETARDERS.



DEFINITIONS FOR COMMON ABBREVIATIONS

=	CANTILEVER CEILING JOIST	MAX	=	MAXIMUM
	CEILING IOIST			
_	OLILING BOIDT	MIN	=	MINIMUM
-	CONCRETE MASONRY UNIT	NOM	=	NOMINAL
=	COLUMN	O.C.	=	ON CENTER
=	CONCRETE	PL	=	POINT LOAD
=	CONTINUOUS	PT	=	PRESSURE TREATED
=	COLLAR TIE	REINF	=	REINFORCED
=	DOUBLE	REQ'D	=	REQUIRED
=	DIAMETER	RJ	=	ROOF JOIST
=	DOUBLE JOIST	RS	=	ROOF SUPPORT
=	DOUBLE RAFTER	SC	=	STUD COLUMN
=	DOUBLE STUD POCKET	SCH	=	SCHEDULE
=	EACH	SPEC	=	SPECIFIED
=	EACH END	TH	=	THICK
=	FLOOR JOIST	TJ	=	TRIPLE JOIST
=	FOUNDATION	TRTD	=	TREATED
=	FOOTING	TSP	=	TRIPLE STUD POCKET
=	GALVANIZED	TYP	=	TYPICAL
=	HORIZONTAL	UNO	=	UNLESS NOTED OTHERWISE
=	HEIGHT	W	=	WIDE FLANGE BEAM
=	JACK STUD	WWF	=	WELDED WIRE FABRIC
=	KING STUD	XJ	=	EXTRA JOIST
	= = = = = = = = = = = = = = = = = = = =	= CONCRETE MASONRY UNIT = COLUMN = CONCRETE = CONTINUOUS = COLLAR TIE = DOUBLE = DIAMETER = DOUBLE JOIST = DOUBLE STUD POCKET = EACH = EACH END = FLOOR JOIST = FOUNDATION = FOOTING = GALVANIZED = HORIZONTAL = HEIGHT = JACK STUD	CONCRETE MASONRY UNIT	CONCRETE MASONRY UNIT

MAXIMUM HEIGHT OF DECK SUPPORT POSTS AS FOLLOWS:

POST SIZE	MAX. POST HEIGHT**
4 x 4	8'-0"
6 x 6	20'-0"
***	OVER 20'-0"

- THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS. MAXIMUM TRIBUTARY AREA IS BASED ON 128 TOTAL SQUARE FEET WHICH MAY BE LOCATED AT DIFFERENT LEVELS.
- FROM TOP OF FOOTING TO BOTTOM OF GIRDER
- DECKS WITH POST HEIGHTS OVER 20'-0" SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.

ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION (4)

- 2) DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF
- THESE METHODS: THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS
- ABOVE. LATERAL BRACING IS NOT REQUIRED. 4 x 4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN 45° AND 60° FROM THE HORIZONTAL KNEE BRACES SHALL BE BOLTED. TO THE POST AND GIRDER WITH ONE 5/8"Ø HOT DIPPED GALVANIZED

BOLT AT EACH END OF THE BRACE

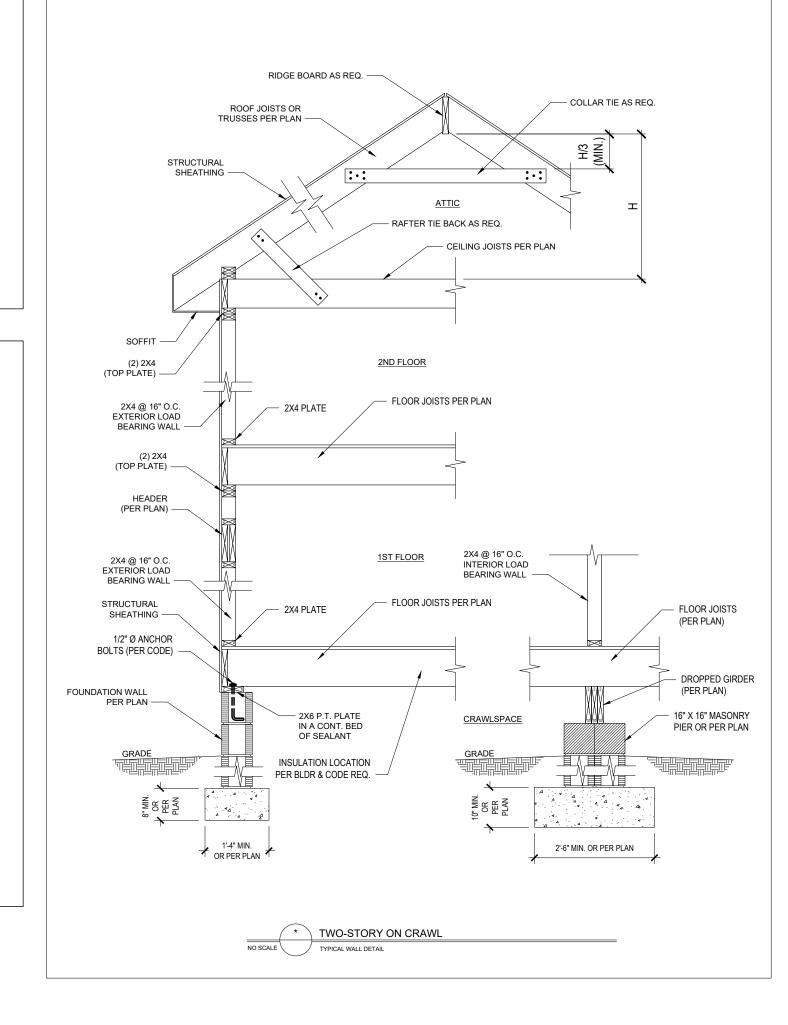
FOR FREESTANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN ACCORDANCE WITH THE FOLLOWING:

POST SIZE	MAX. TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
4 x 4	48 SQ. FT.	4'-0"	2'-6"	1'-0"
6 x 6	120 SQ. FT.	6'-0"	3'-6"	1'-8"

D. 2 x 6 DIAGONAL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO (2) PERPENDICULAR DIRECTIONS FOR FREESTANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE 2 x 6s SHALL BE ATTACHED TO THE POSTS WITH ONE $5/8^\circ$ 0 HOT

DIPPED GALVANIZED BOLT AT EACH END OF EACH BRACING MEMBER.

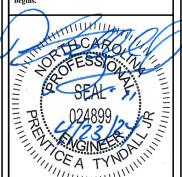
E. FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.



ocedures or safety precaution Any deviations or discrepancies on Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability.

Please review these documents carefully.

Tyndall Engineering & Design, P.A. will terpret that all dimensions, reco tc. presented in these documents were med acceptable once construction



TYNDALL ENGINEERING & DESIGN, P.A



TIMOTHY AND ELIZAB 306 DEER PATH FARMS ERWIN, NC 28339

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DRB2301-0031B 04/22/2024 Engineered By: JA DWG. Checked By:

PTII NOT TO SCALE

REVISIONS Date: Remarks

Sheet Number