

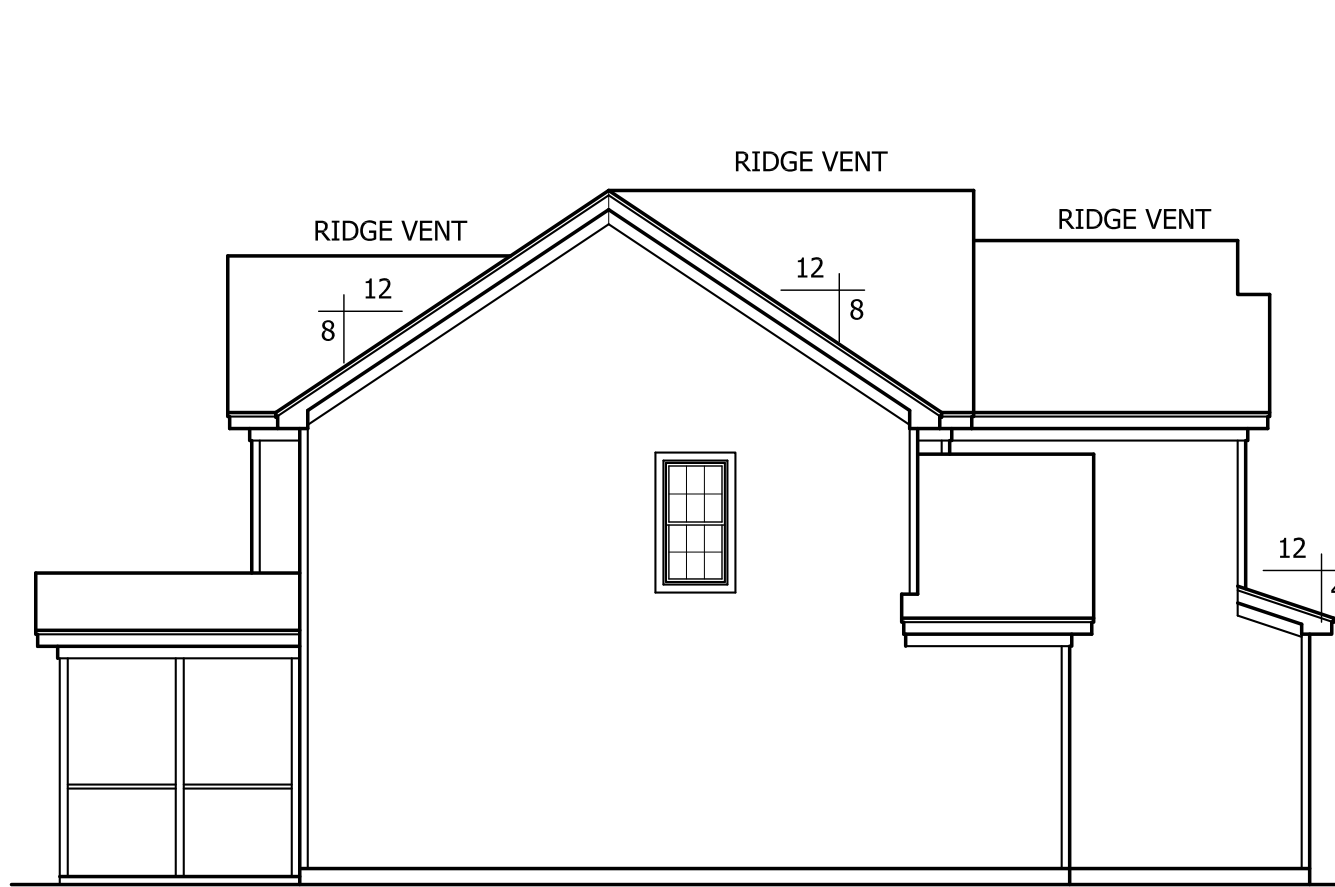
THIS PLAN HAS BEEN DRAWN TO CONFORM TO THE 2018 NORTH CAROLINA RESIDENTIAL CODE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGGING WORK. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL STATE AND LOCAL BUILDING CODES AND ORDINANCES. KADS CUSTOM HOME DESIGNS ASSUMES NO LIABILITY FOR SITE CONDITIONS, CONSTRUCTION METHODS OR ANY DEVIATION OF THESE PLANS.

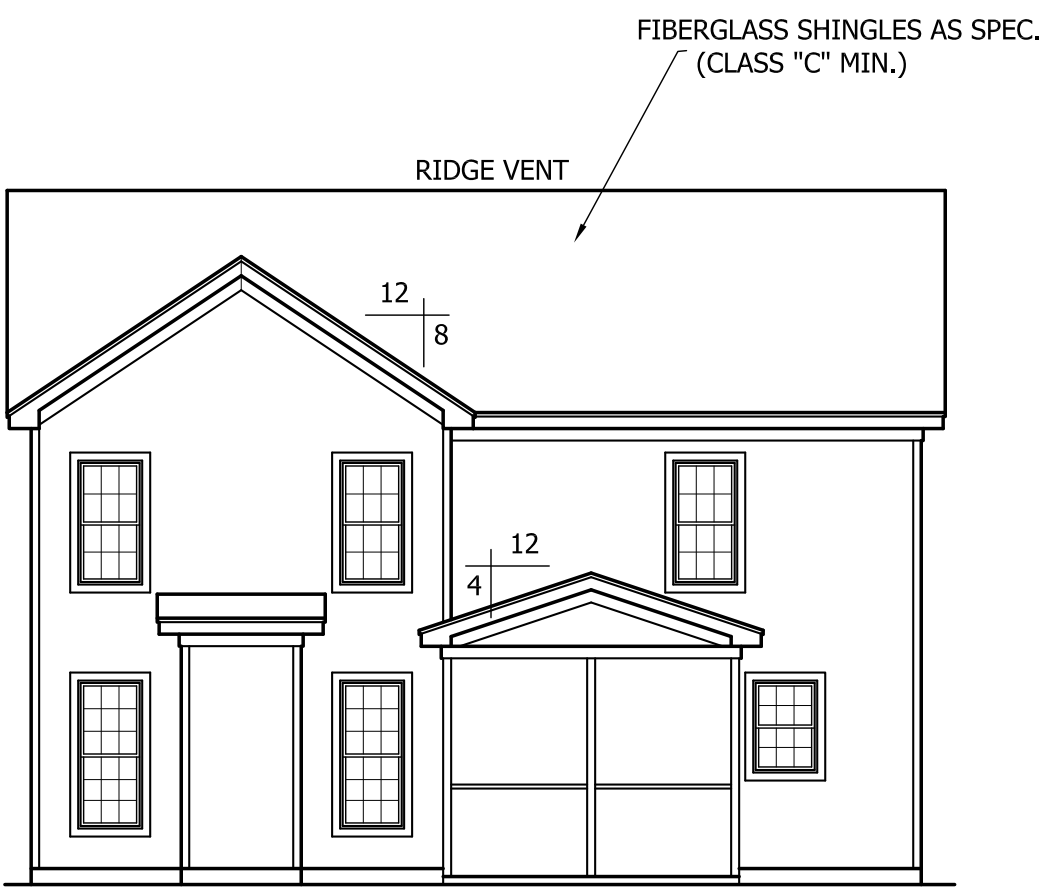
NOTE:
ALL WINDOWS TO BE INSTALLED MUST MEET A MAXIMUM OF .32 U VALUE OR BETTER, UNLESS ENERGY CALCULATIONS ARE SUBMITTED WITH PLANS PROVIDED BY BUILDER AT TIME OF PLAN REVIEW.



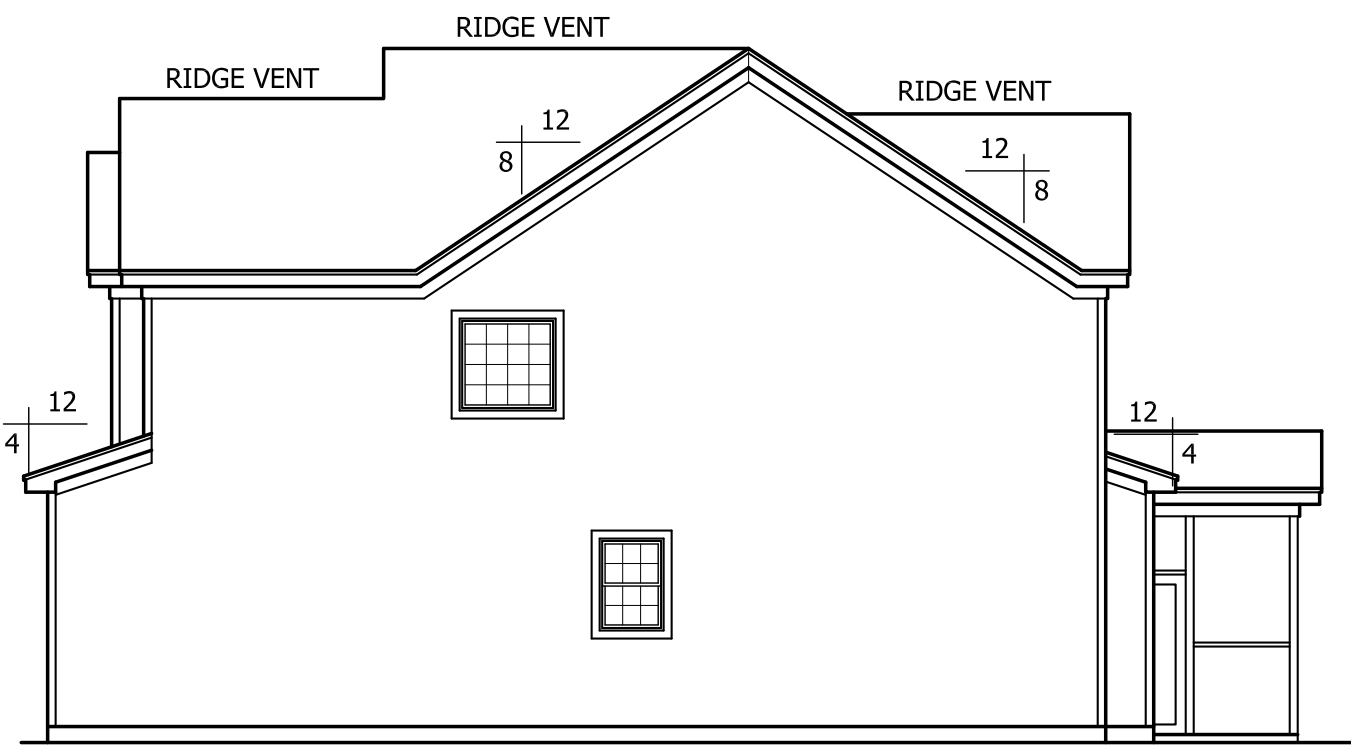
FRONT ELEVATION
OPTION 1 GABLE



LEFT ELEVATION
SCALE: 1/8"=1'-0"

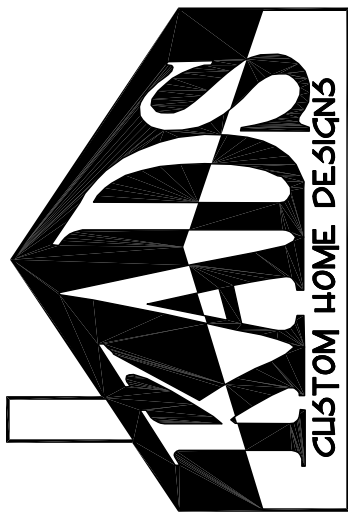


REAR ELEVATION
SCALE: 1/8"=1'-0"



RIGHT ELEVATION
SCALE: 1/8"=1'-0"

TRIANGLE DEALS. LLC
"THE JEFFREY"



ANGIER, NC
919-369-7181

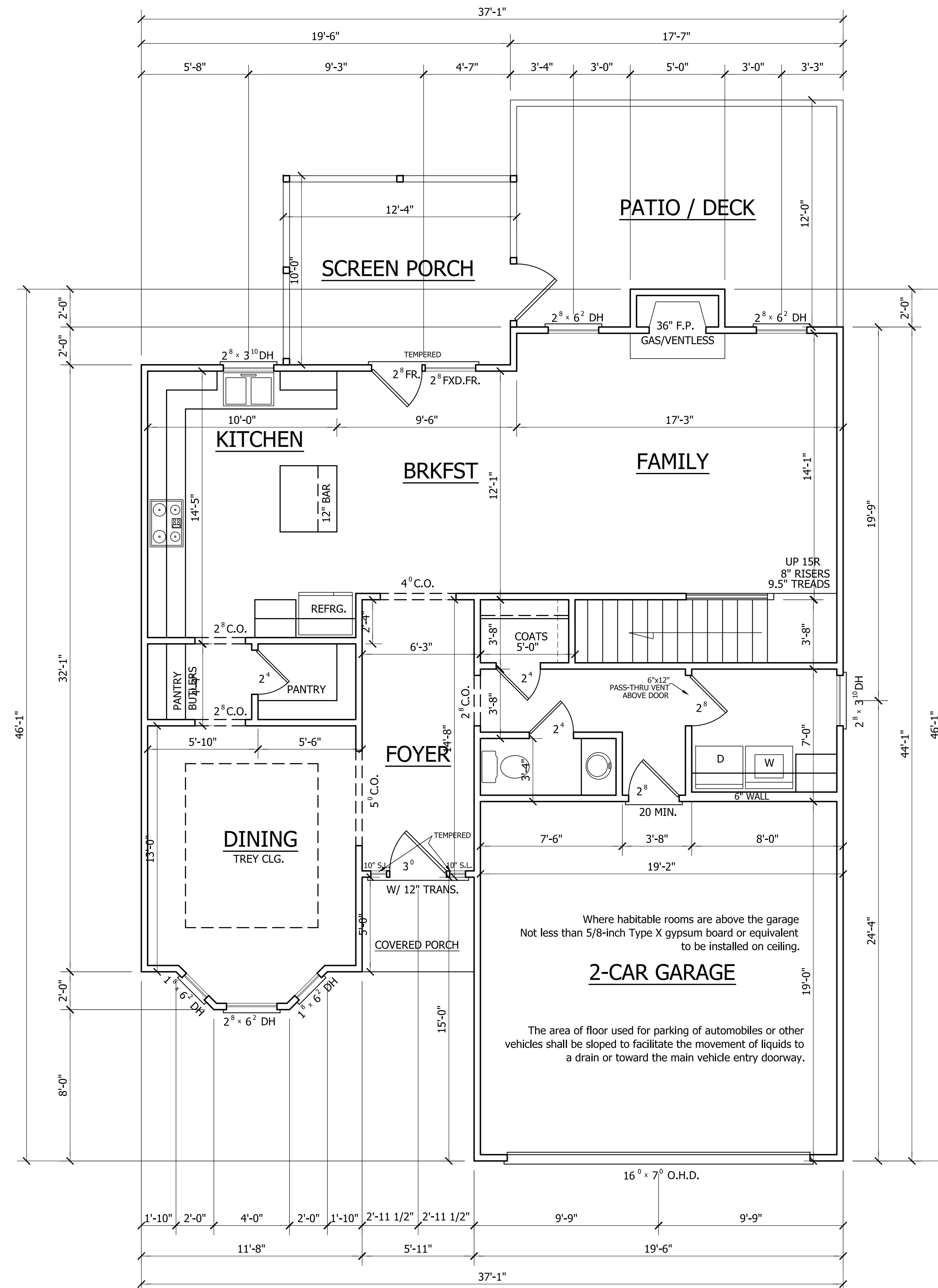
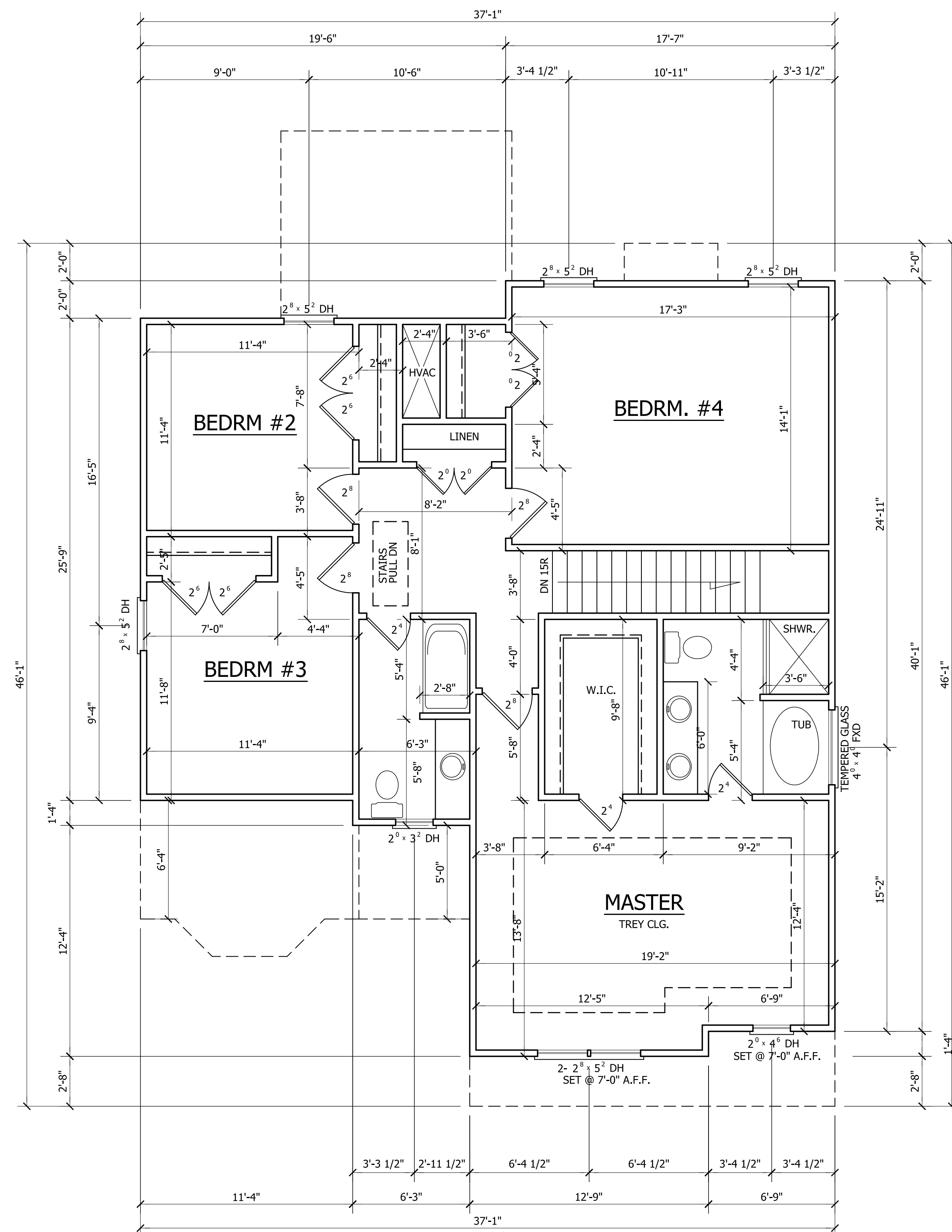
DRAWN BY:
D.V.O.

DATE:
7/28/20

PAGE NO

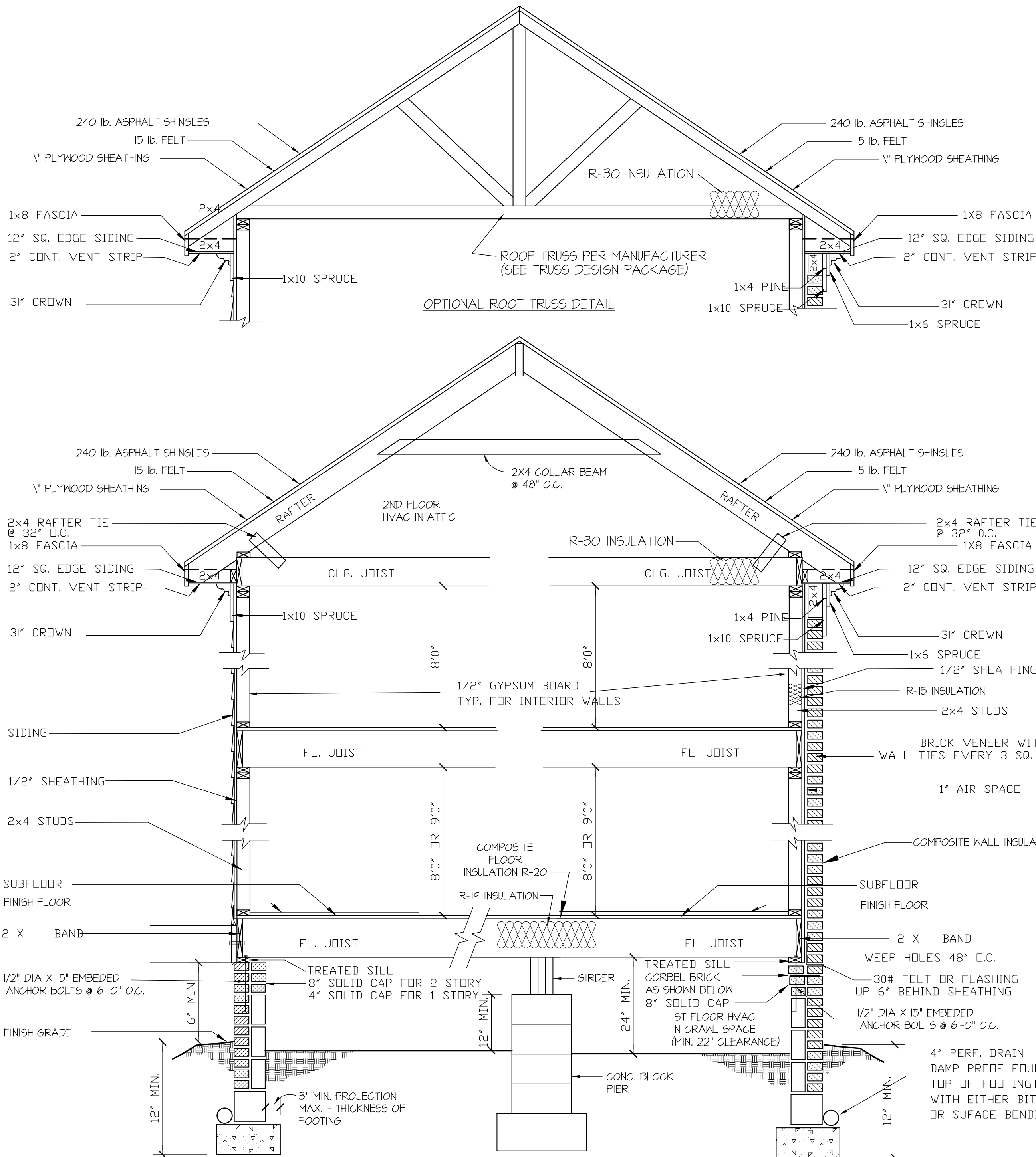
1
OF
3

PLAN NO.
DK2225



<u>HEATED</u>	
FIRST FLOOR HTD. SQ. FT.	= 1033
SECOND FLOOR HTD. SQ. FT.	= 1192
TOTAL HTD. SQ FT. = 2225	
<u>UNHEATED</u>	
FRONT PORCH SQ. FT.	= 30
GARAGE SQ. FT.	= 369
SCREEN PORCH SQ. FT.	= 120
OPTIONAL DECK SQ. FT.	= 210



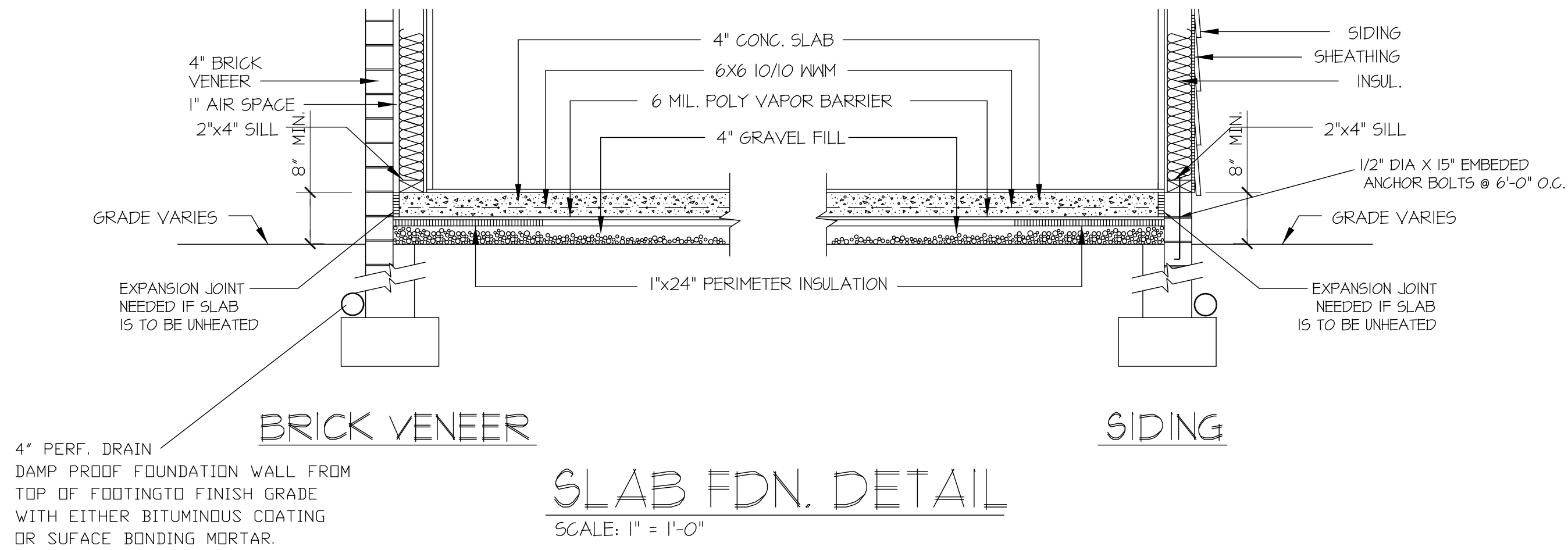


SIDING SECTION

BRICK SECTION

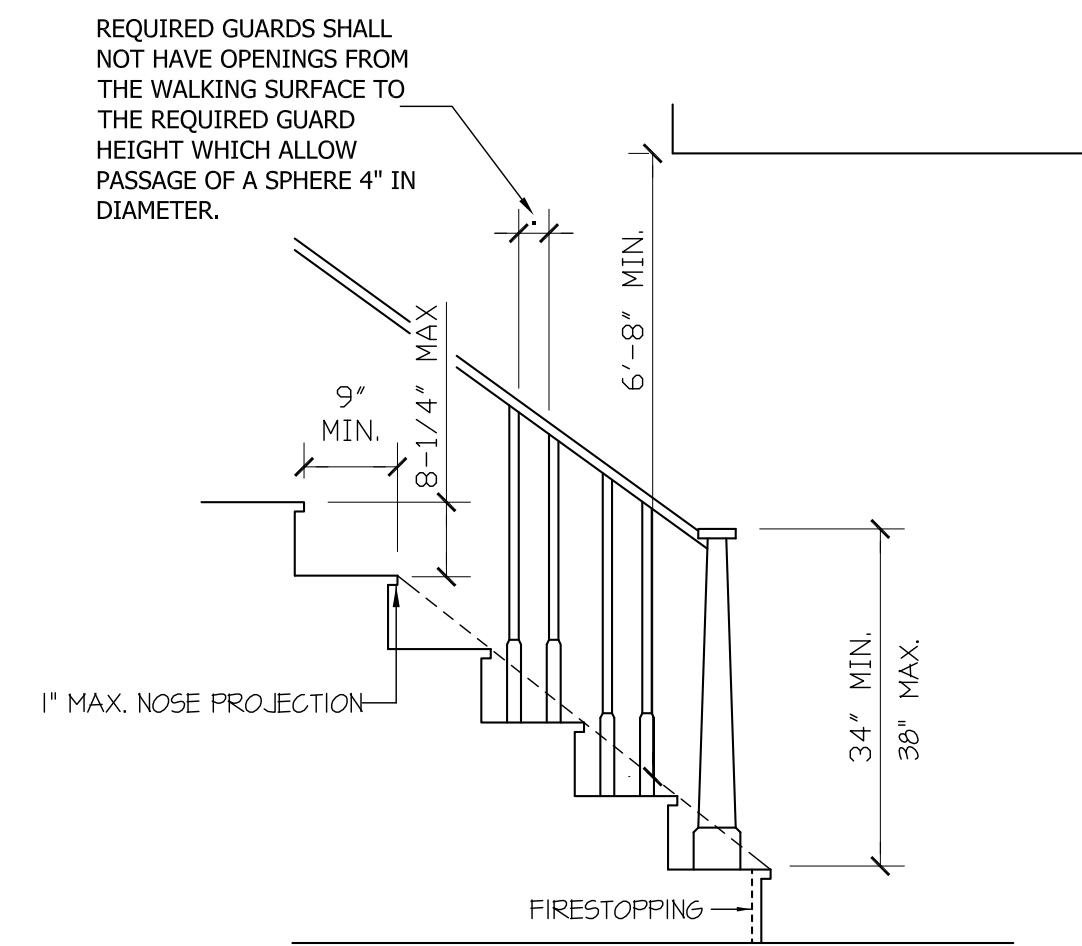
WALL SECTION

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



SLAB FDN. DETAIL

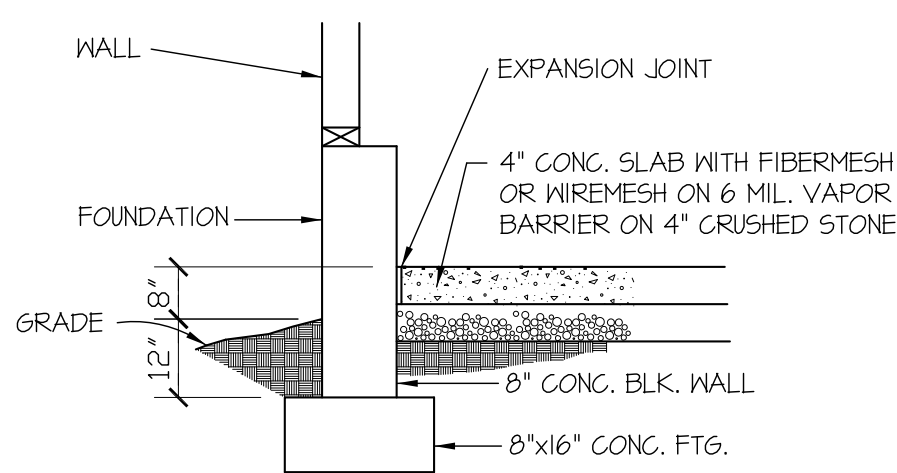
SCALE: 1" = 1'-0"



NOTE:
Stairways shall not be less than 36 inches in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4.5 inches on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 31-1/2 inches where a handrail is installed on one side and 27 inches where handrails are provided on both sides

STAIR DETAIL

SCALE: NTS



GARAGE SLAB

SCALE: NTS

ROOF VENTILATING REQUIREMENTS

$$\frac{1432}{150} = 9.54 \text{ SQ. FT. REQ'D}$$

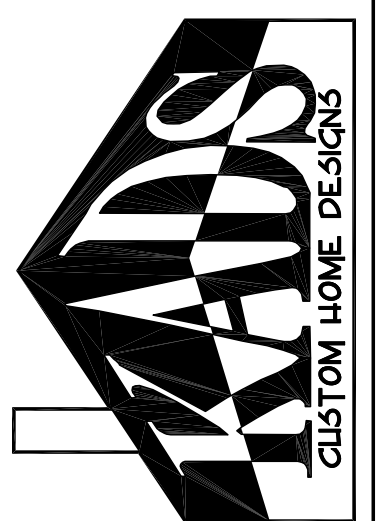
ROOF VENTILATING REQUIREMENTS

(POWER ROOF VENTILATOR REQUIRED)

$$\frac{1432}{300} = 4.77 \text{ SQ. FT. REQ'D}$$

BUILDER TO PROVIDE APPROPRIATE VENTILATING AS REQUIRED.

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7/28/20

PAGE NO

3

OF

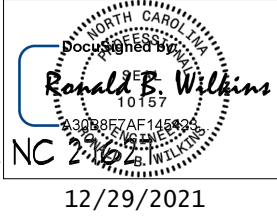
3

PLAN NO.
DK2225

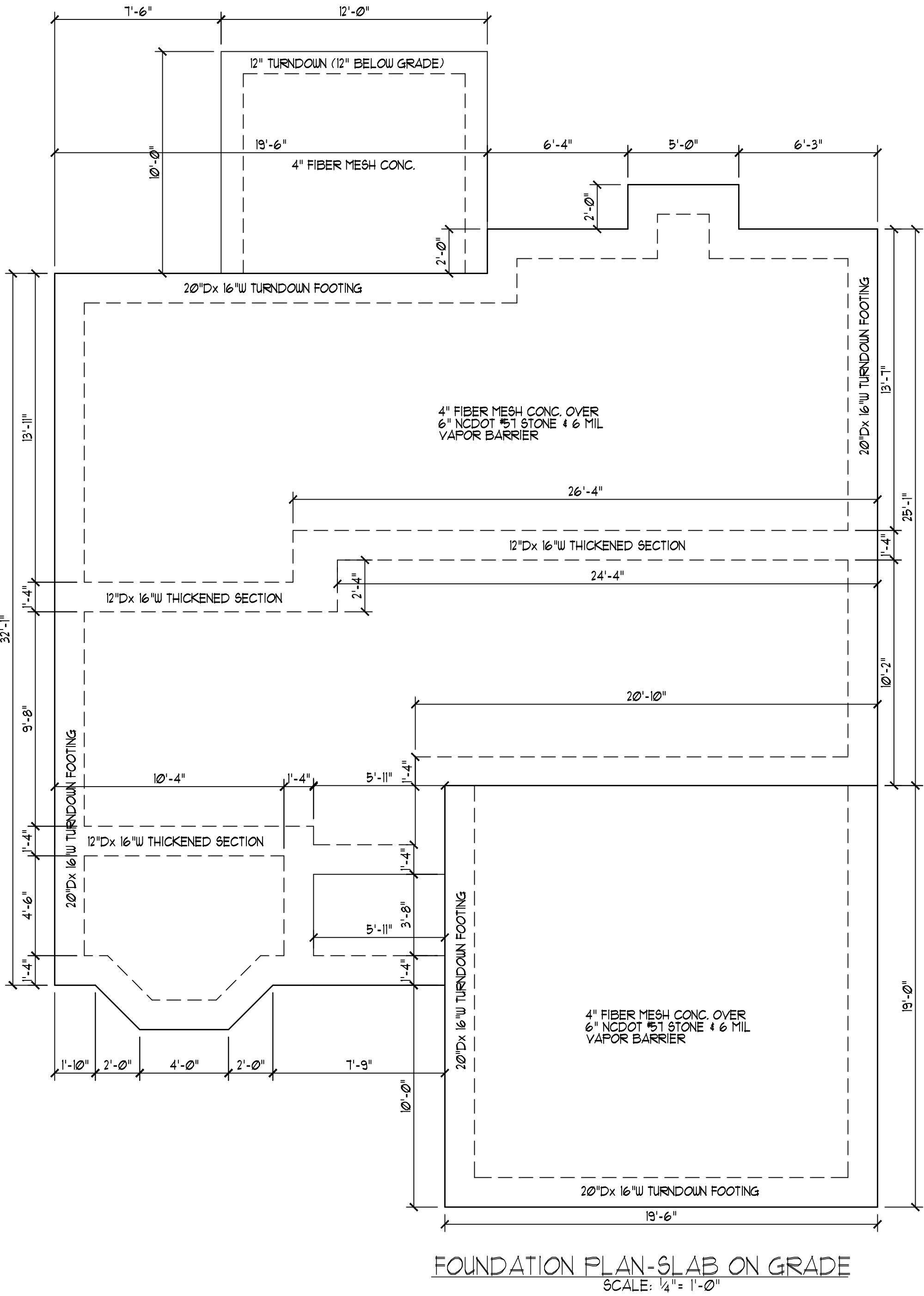
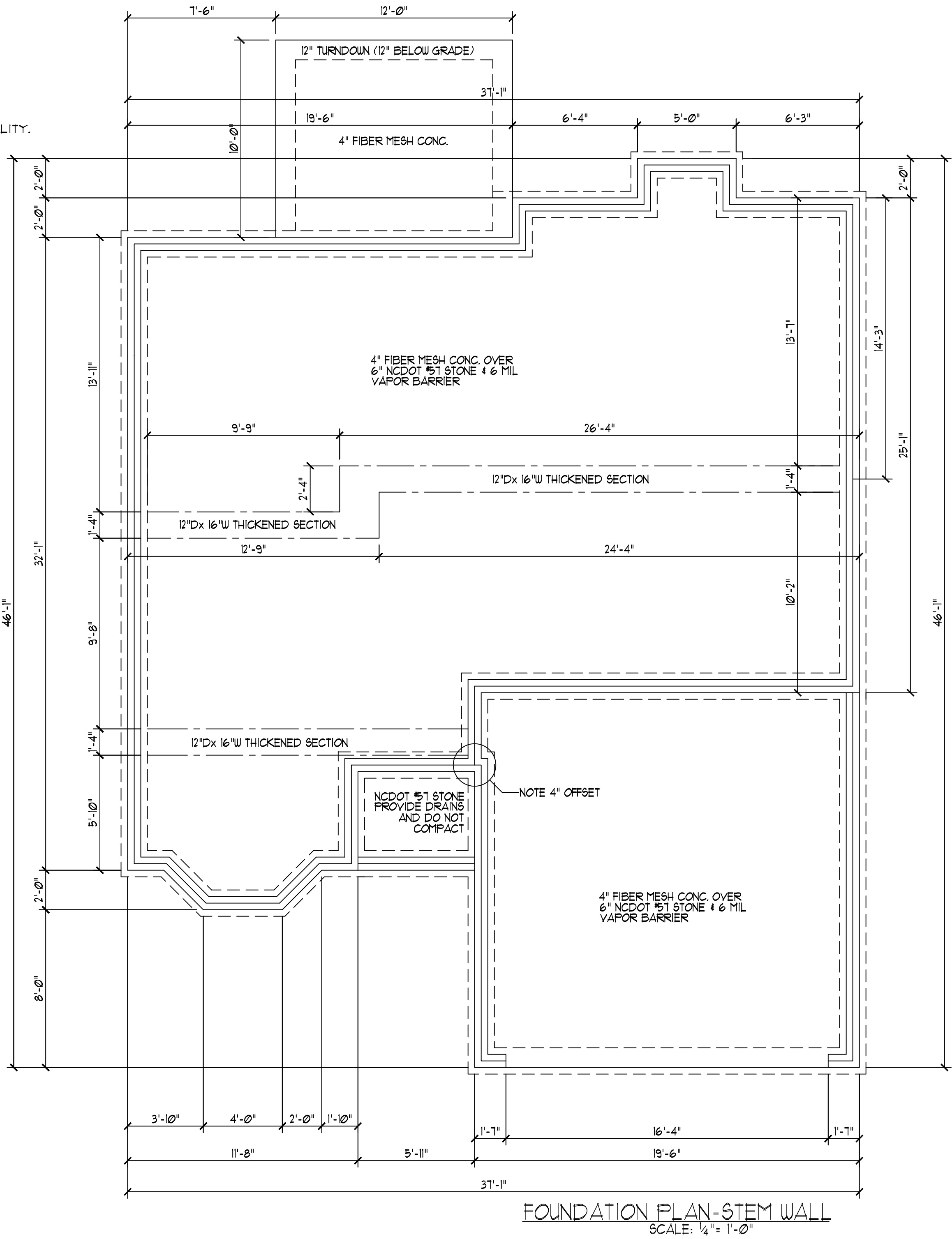
GENERAL FOUNDATION NOTES:

1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
2. EXTERIOR WALL FOOTING TO BE MIN. 16" WIDE AND 3000 PSI. STRUCTURAL CONCRETE TO BE PREPARED AND PLACED IN ACCORDANCE WITH ACI 318. FOR FOUNDATION WALL HEIGHT, THICKNESS AND BACKFILL REQUIREMENTS, REFER TO STATE AND LOCAL BUILDING CODES. NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOIL ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
3. FOOTINGS TO BEAR ON UNDISTURBED EARTH A MINIMUM OF 12" BELOW ADJACENT FINISH GRADE OR AS OTHERWISE DIRECTED BY LOCAL INSPECTOR.
4. FOUNDATION DRAINAGE SHALL BE IN ACCORDANCE WITH SECTION R405 OF THE CODE "FOUNDATION DRAINAGE".
5. ANCHOR BOLTS SHALL BE 1/2" DIAMETER AND INSTALLED AT 12" ON CENTER AND 12" FROM EACH CORNER OR BOTTOM PLATE SPLICE LOCATIONS..

STRUCTURAL EVALUATION BY:
WILKINS ENGINEERING, P.C.
Post Office Box 37446, Raleigh, NC 27621
FILE: JEFFREY



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- ELECTRONIC ORIGINAL MAINTAINED BY WILKINS ENGINEERING, P.C.
- DO NOT SCALE THESE DRAWINGS - ENGINEERING APPROVAL EXPIRES 12/30/2022.



GENERAL NOTES:

1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
2. 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 N102.1, RESIDENTIAL BUILDING, TYPE A-1.
3. WALL CLADDING IS DESIGNED FOR A 24.1 PSF OR GREATER POSITIVE/NEGATIVE PRESSURE.

ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:

45.5 PSF FOR ROOF PITCHES FROM 0/12 TO 225/12

34.5 PSF FOR ROOF PITCHES FROM 225/12 TO 1/12

21 PSF FOR ROOF PITCHES FROM 1/12 TO 12/12

MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 16'.
4. ALL WALLS, FLOORS AND CEILINGS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER II, ENERGY EFFICIENCY OF THE CODE FOR ZONE 4A (TABLE N102.12).
5. 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

115 MPH

DEFLECTION LIMITS

FLOOR - L/360

(LIVE LOAD ONLY)

ROOF - L/240
6. ALL HEADERS IN LOAD BEARING WALLS SHALL BE 2-2"x10" MEMBERS U.O.N. ALL LUMBER USED FOR JOISTS AND RAFTERS SHALL BE SFF #2 OR BETTER. LUMBER USE FOR STUDS SHALL BE SFF #3 OR BETTER.
7. LVL SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER (PSL) WITH THE FOLLOWING PROPERTIES: F_b = 2800 PSI, F_v = 285 PSI, E = 2,000,000 PSI. INSTALL ALL LVL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS. MULTIPLE 1 3/4" LVLs CAN BE USED TO ACHIEVE THE SPECIFIED SIZE AND IS CONSIDERED TO BE STRUCTURALLY EQUIVALENT.
8. THE FOLLOWING SHALL APPLY TO ALL BRACED WALL LINES:

ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH 1/2" OSB OR CDX.

USP LVL R-602.10.3 AND SHALL BE COVERED WITH 1/2" GYPSUM BOARD ON THE INTERIOR. ALL USP PANELS SHALL BE FASTENED WITH 8d NAILS, 12" O.C. (FIELD) AND 6" O.C. (EDGES). ALL EXTERIOR WALLS SHALL BE 2"x4"@16" ON CENTER (EXCEPT FOR BALLOON FRAMED SECTIONS AS NOTED) AND CONTINUOUSLY SHEATHED.

STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.

Post Office Box 37446, Raleigh, NC 27627

FILE: JEFFREY

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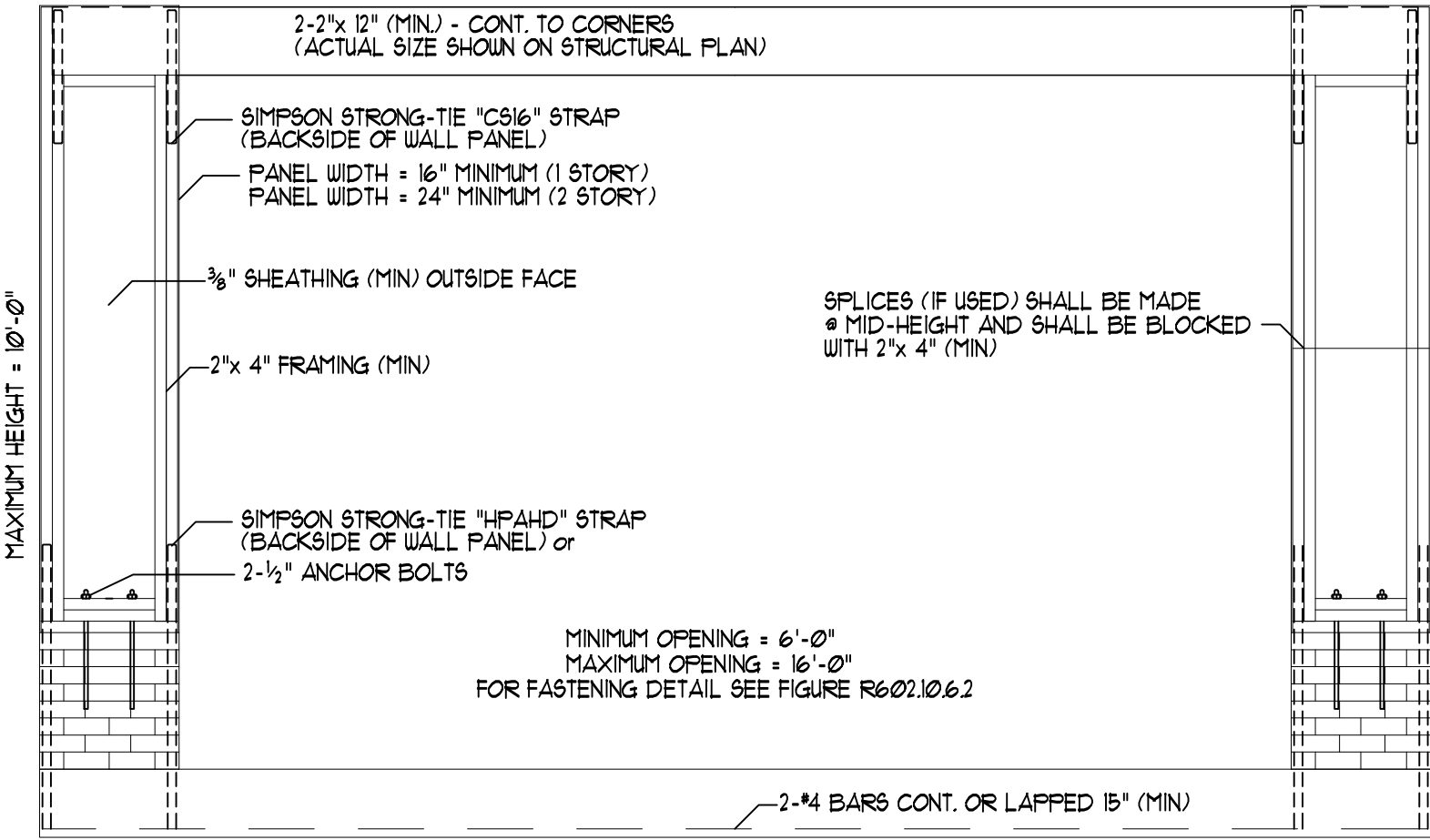
Signature of

Randall B. Wilkins

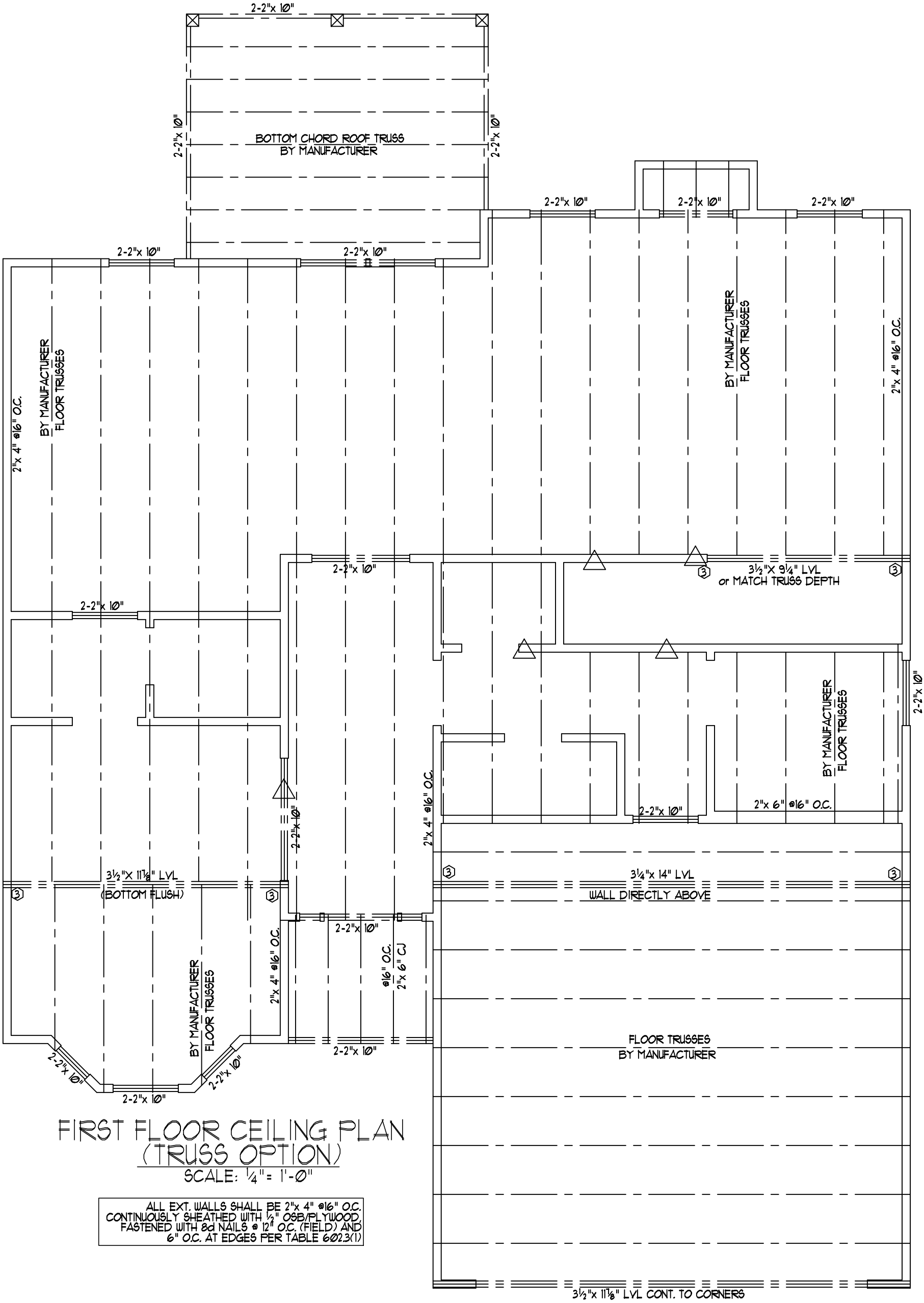
6/25/2023

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- ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. FAILURE TO DO SO WILL VOID ENGINEER'S LIABILITY.
- DO NOT SCALE THESE DRAWINGS. ENGINEERING APPROVAL EXPIRES IN ONE YEAR.

* FULL HEIGHT STUDS EACH SIDE OF EXTERIOR WALL HEADERS/BEAMS		
HEADER SPAN (FEET)	STUDS @ 16" O.C.	STUDS @ 24" O.C.
3'-0" OR LESS	1	1
4'-0"	2	1
8'-0"	3	2
12'-0"	5	3
16'-0"	6	4



WALL PANEL @ GARAGE DOOR



ALL EXT. WALLS SHALL BE 2"x4" @16" O.C. CONTINUOUSLY SHEATHED WITH 1/2" OSB/PLYWOOD FASTENED WITH 8d NAILS @ 12" O.C. (FIELD) AND 6" O.C. AT EDGES PER TABLE 602.3(1)

DO NOT SCALE THESE DRAWINGS. ALL DIMENSIONS AND SITE DIMENSIONS ARE TO BE VERIFIED BEFORE CONSTRUCTION BEGINS. SHOULD CONSTRUCTION DISCREPANCIES BE OBSERVED, THE BUILDER AGREES TO NOTIFY THE ENGINEER IMMEDIATELY. THESE DRAWINGS APPLY TO STRUCTURAL ELEMENTS ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CODE VIOLATIONS OR NON-STRUCTURAL ITEMS.

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Raleigh, NC 27627
193117-3540
wilkinseng4420.com

TRIANGLE DEALS, LLC
DK-2225 THE JEFFREY

Sheet No.

S2

GENERAL NOTES:

1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
2. 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 N1102.1, RESIDENTIAL BUILDING, TYPE A-1.
3. WALL CLADDING IS DESIGNED FOR A 24.1 °/F OR GREATER POSITIVE/NEGATIVE PRESSURE.

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
MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 16'.

4. ALL WALLS, FLOORS AND CEILINGS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER II, ENERGY EFFICIENCY OF THE CODE FOR ZONE 4A (TABLE N1102.1.2).

5. 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		115 MPH

DEFLECTION LIMITS FLOOR - L/360
(LIVE LOAD ONLY) ROOF - L/240

6. ALL HEADERS IN LOAD BEARING WALLS SHALL BE 2-2"x 10" MEMBERS U.O.N.
ALL LUMBER USED FOR JOISTS AND RAFTERS SHALL BE SFF #2 OR BETTER.
LUMBER USE FOR STUDS SHALL BE SFF #3 OR BETTER.

1. LVL SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER (PSL) WITH THE FOLLOWING PROPERTIES: $F_b = 2000$ FSI, $F_v = 285$ FSI, $E = 2,000,000$ FSI. INSTALL ALL LVL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS. MULTIPLE $1\frac{3}{4}$ LVLs CAN BE USED TO ACHIEVE THE SPECIFIED SIZE AND IS CONSIDERED TO BE STRUCTURALLY EQUIVALENT.

8. THE FOLLOWING SHALL APPLY TO ALL BRACED WALL LINES:

ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH 1/2" OSB OR CDX. WSP 141W R-602.103 AND SHALL BE COVERED WITH 1/2" GYPSUM BOARD ON THE INTERIOR. ALL WSP PANELS SHALL BE FASTENED WITH 8d NAILS, 12" O.C. (FIELD) AND 6" O.C. (EDGES). ALL EXTERIOR WALLS SHALL BE 2"x4"x16" ON CENTER (EXCEPT FOR BALCONY FRAMED SECTIONS AS NOTED) AND CONTINUOUSLY SHEATHED.

STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.

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FILE: JEFFRY

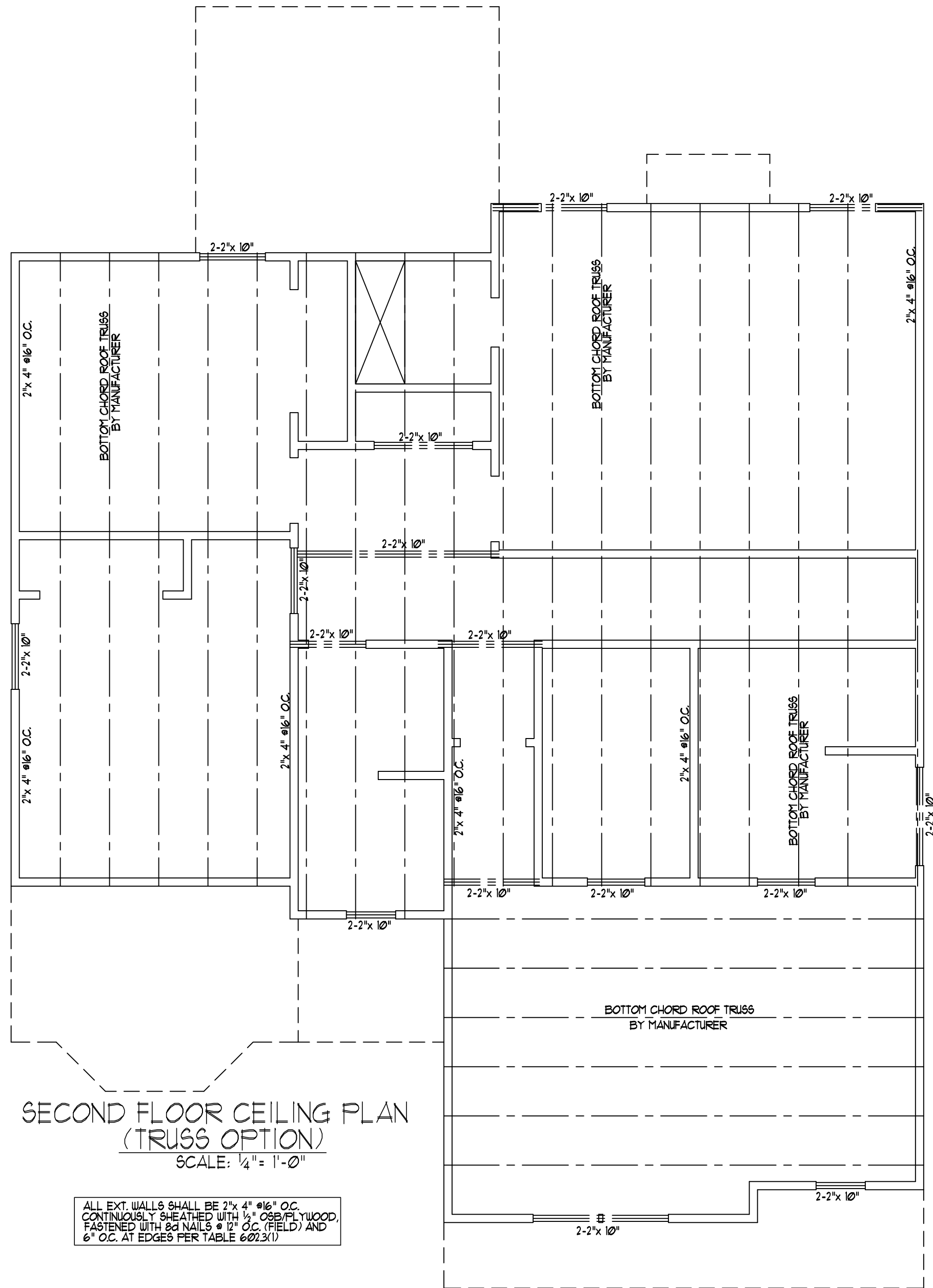
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12/29/2021

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* FULL HEIGHT STUDS EACH SIDE OF EXTERIOR WALL HEADERS/BEAMS		
HEADER SPAN (FEET)	STUDS @ 16" O.C.	STUDS @ 24" O.C.
3'-0" OR LESS	1	1
4'-0"	2	1
8'-0"	3	2
12'-0"	5	3
16'-0"	6	4



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DK-2225 THE JEFFREY

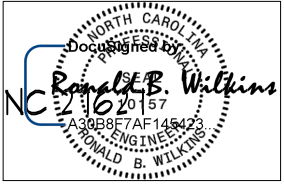
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53

GENERAL ROOF NOTES:

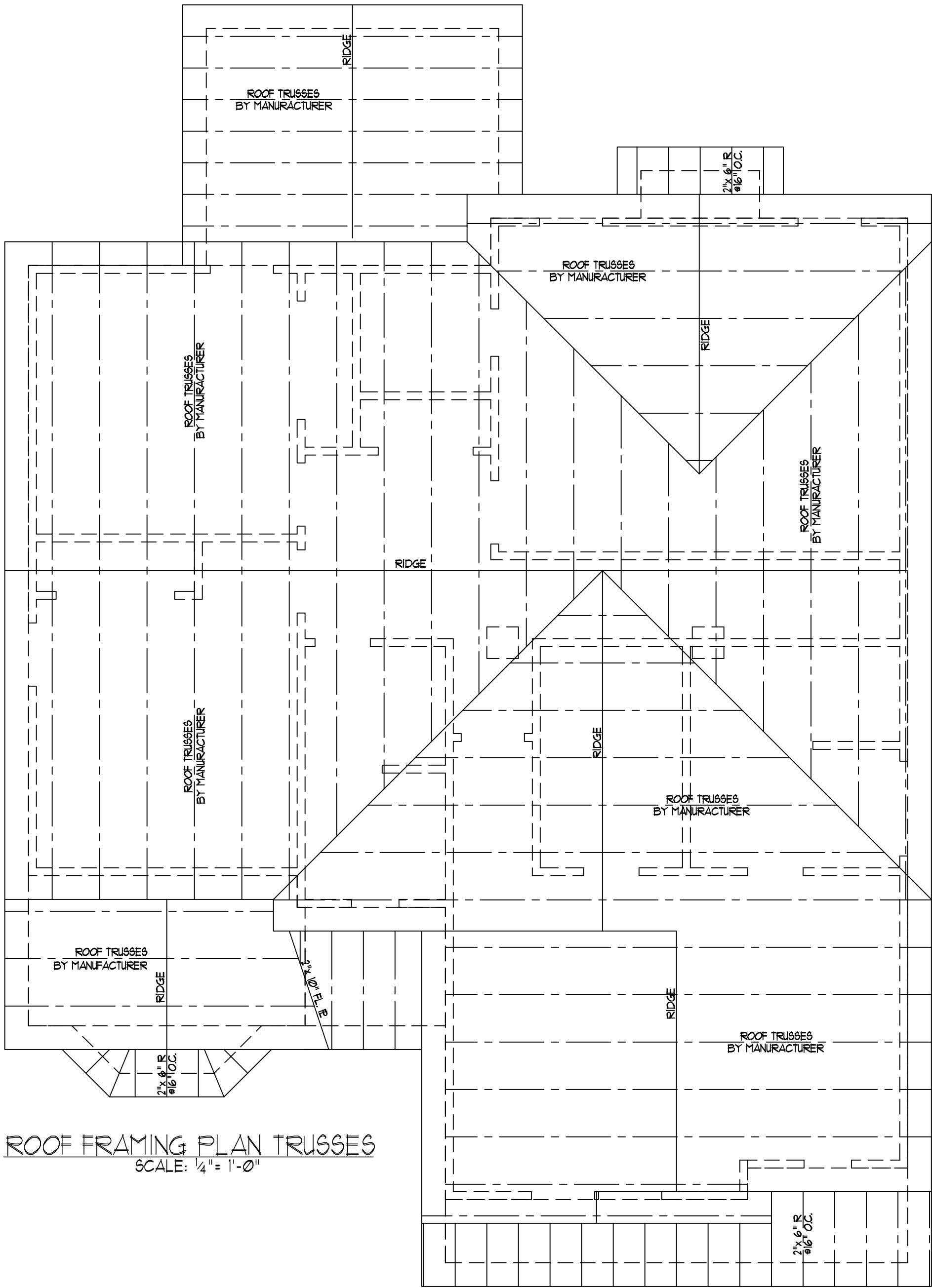
1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
2. ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) ARE AS FOLLOWS:
45.5 #9F FOR ROOF PITCHES FROM 0/12 TO 2.25/12
34.5 #9F FOR ROOF PITCHES FROM 2.25/12 TO 1/12
21 #9F FOR ROOF PITCHES FROM 1/12 TO 12/12
3. THE MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 16 FEET.
4. ALL ROOFING ELEMENTS SHALL MEET THE REQUIREMENTS OF CHAPTER 8 OF THE CODE.
5. ALL LUMBER SHALL BE #2 SPF, SYP OR BETTER.
6. THIS STRUCTURE DESIGNED FOR 115 MPH WIND ZONES.
7. THE TRUSSES SHOWN ARE TO BE DESIGNED BY THE MANUFACTURER AND ANALYSIS PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

STRUCTURAL EVALUATION BY:
WILKINS ENGINEERING, P.C.
Post Office Box 37446, Raleigh, NC 27621
FILE: JEFFRY



12/29/2021

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ROOF FRAMING PLAN TRUSSES
SCALE: 1/4" = 1'-0"

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