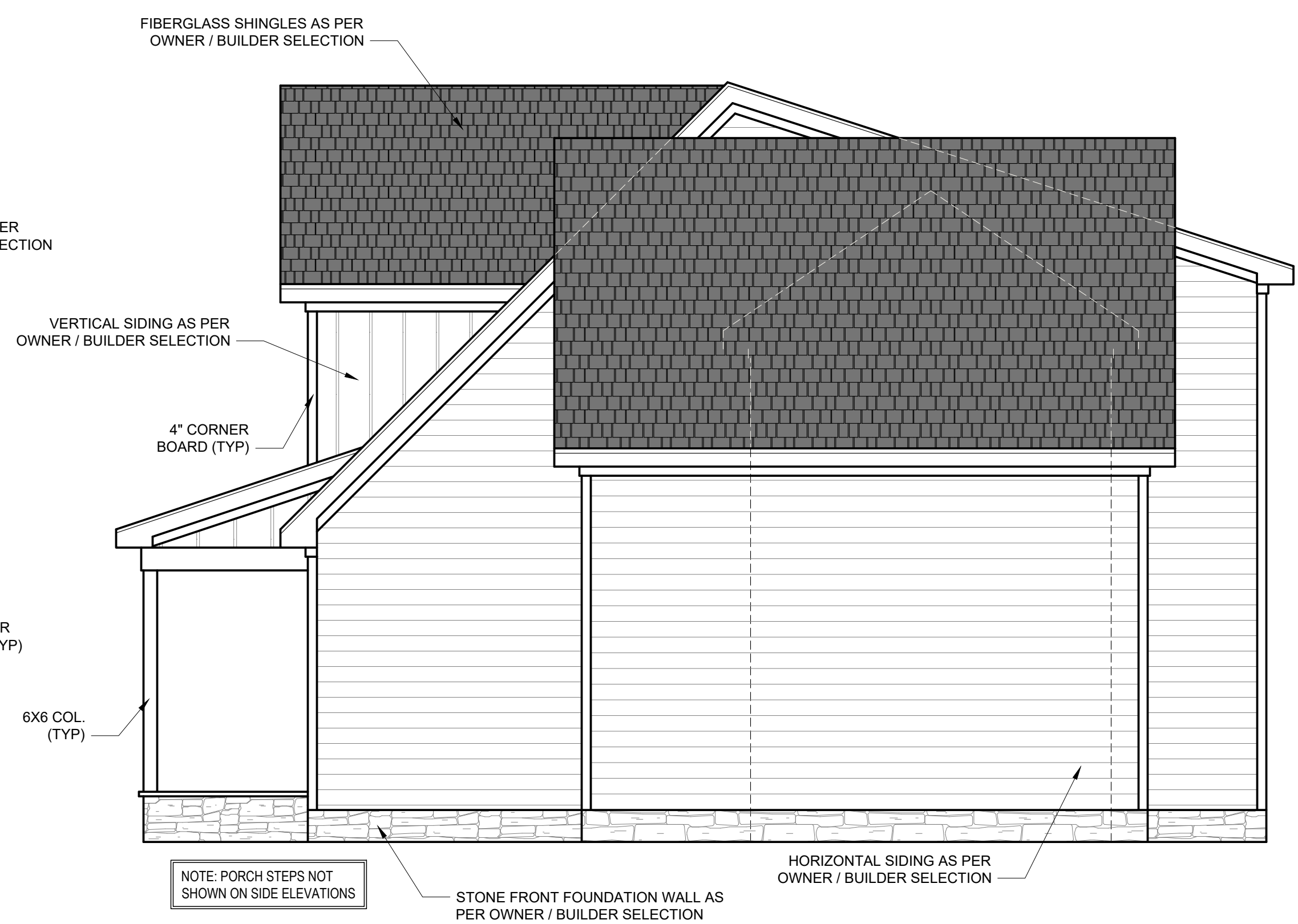


THIS COPYRIGHTED DESIGN IS THE SOLE PROPERTY OF DRB DESIGN AND MAY NOT BE USED OR REPRODUCED WITHOUT A WRITTEN CONSENT OF DRB DESIGN



### RIGHT ELEVATION

**1/4" = 1'-0"**

- 
- Architectural drawing showing a side elevation of a house. The drawing includes the following callouts and details:
- HORIZONTAL SIDING AS PER OWNER / BUILDER SELECTION**: Points to the main wall area.
  - FIBERGLASS SHINGLES AS PER OWNER / BUILDER SELECTION**: Points to the roof.
  - VERTICAL SIDING AS PER OWNER / BUILDER SELECTION**: Points to the porch area.
  - 4" CORNER BOARD (TYP)**: Points to the corner board on the porch.
  - 6X6 COL. (TYP)**: Points to the porch column.
  - STONE FRONT FOUNDATION WALL AS PER OWNER / BUILDER SELECTION**: Points to the foundation wall.
  - NOTE: PORCH STEPS NOT SHOWN ON SIDE ELEVATIONS**: Located in a box at the bottom right.
- Additional notes on the right side of the drawing:
- Any ambiguity or discrepancy of these drawings shall be the responsibility of the Designer.
  - A failure to cooperate by a simple responsibility for all consequences.
  - Changes made to these plans are the responsibility of the Designer.
  - DESIGN of responsibility for any construction.
  - Written dimensions on these plans govern over graphical dimensions.
  - It is the contractor's responsibility to verify all conditions of construction, as well as conditions of construction, as well as conditions of construction.
  - DRB DESIGN must be notified.

## REAR ELEVATION

---

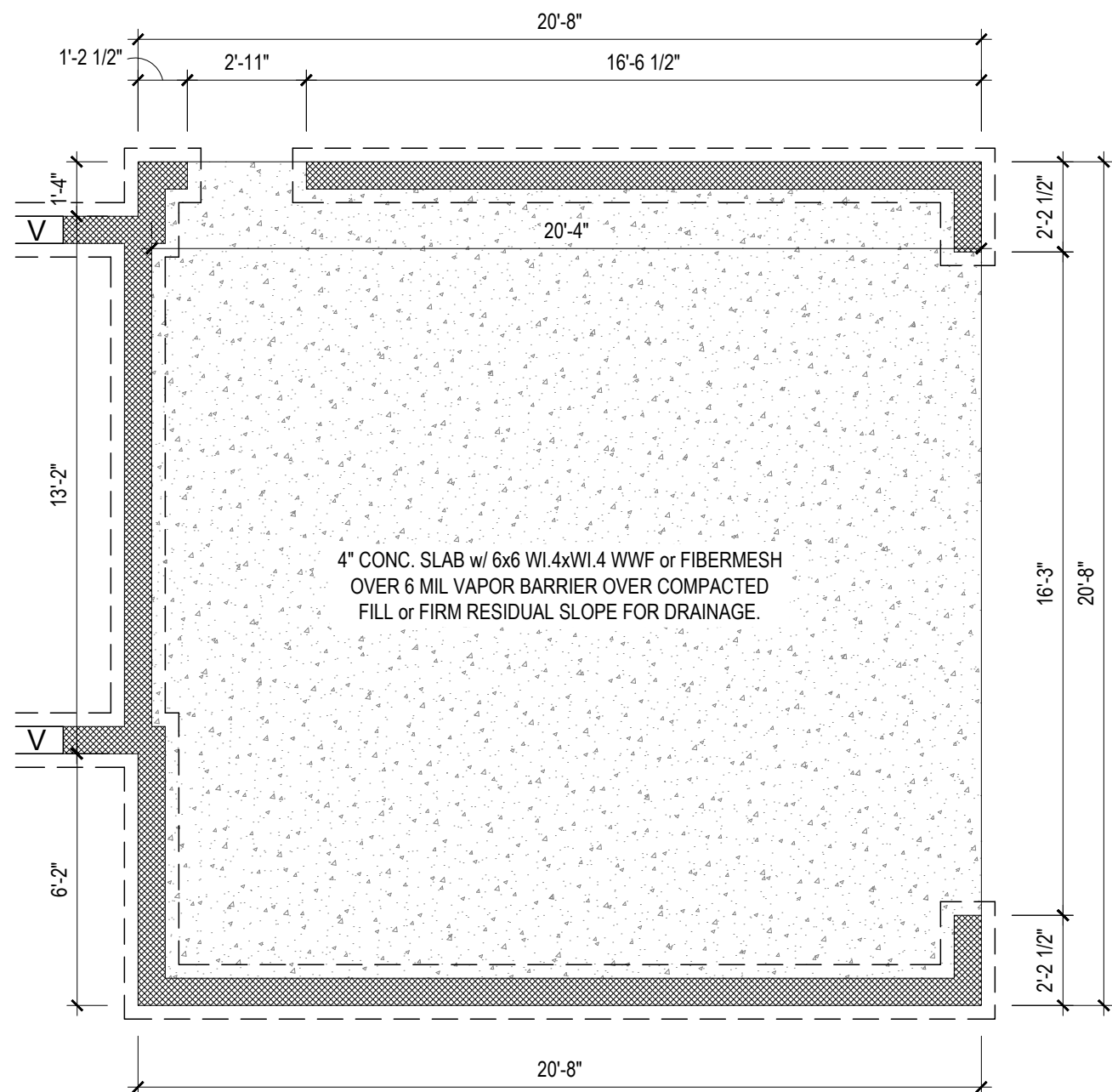
**1/4" = 1'-0"**



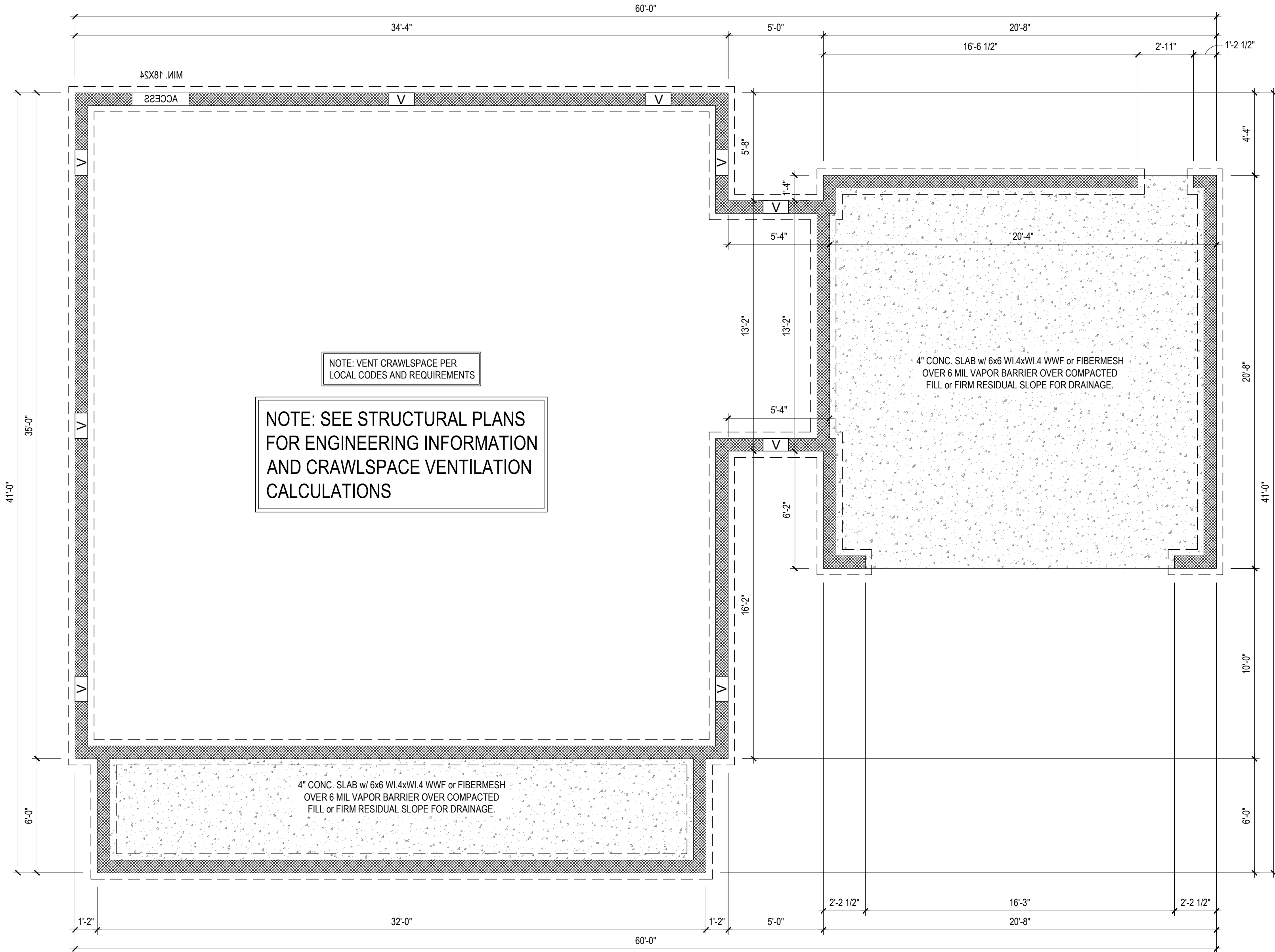
of 7



- DRB DESIGN assumes no liability for any home constructed from this plan.
- All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code", in addition to all local codes and regulations.
- 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.
- Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN.
- 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.
- A failure to cooperate by a simple notice to DRB DESIGN shall relieve the designer from any and all responsibilities for all consequences.
- 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 arising out of such changes.
- Written dimensions on these plans always have precedence over scaled dimensions.
- 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.
- DRB DESIGN must be notified of any variations from the dimensions and conditions shown on these drawings.



**FOUNDATION PLAN -  
SIDE LOAD GARAGE**  
1/4" = 1'-0" CRAWL SPACE

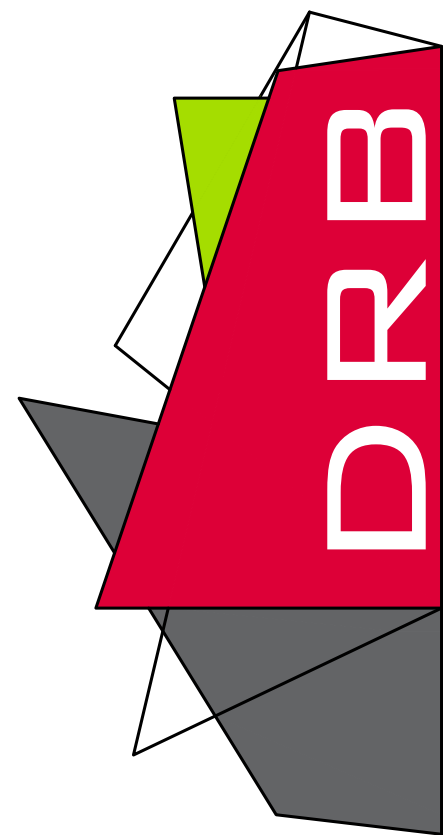


**FOUNDATION PLAN**  
1/4" = 1'-0" CRAWL SPACE

PROJECT #  
DRB2401-0315\_A  
DATE  
11/20/2024  
DRAWN/DESIGNED BY  
MMB  
CHECKED BY  
DRB  
SCALE  
1/4" = 1'-0"

WEBSITE  
www.  
drbhomedesign  
.com

PROJECT NAME  
THE  
CARDINAL

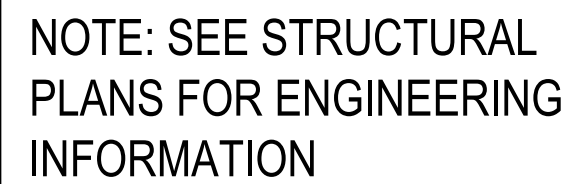


DESIGN  
drbdesign@drbhomedesign.com 919.631.5979  
250 Shipwash Dr Suite 105 Garner, NC 27529

CLIENT NAME  
RiverWILD  
114 W. Main St.  
Clayton, NC 27520  
brittany@staywild.com  
(919) 766-8782

SHEET NAME  
CRAWL SPACE  
SHEET #



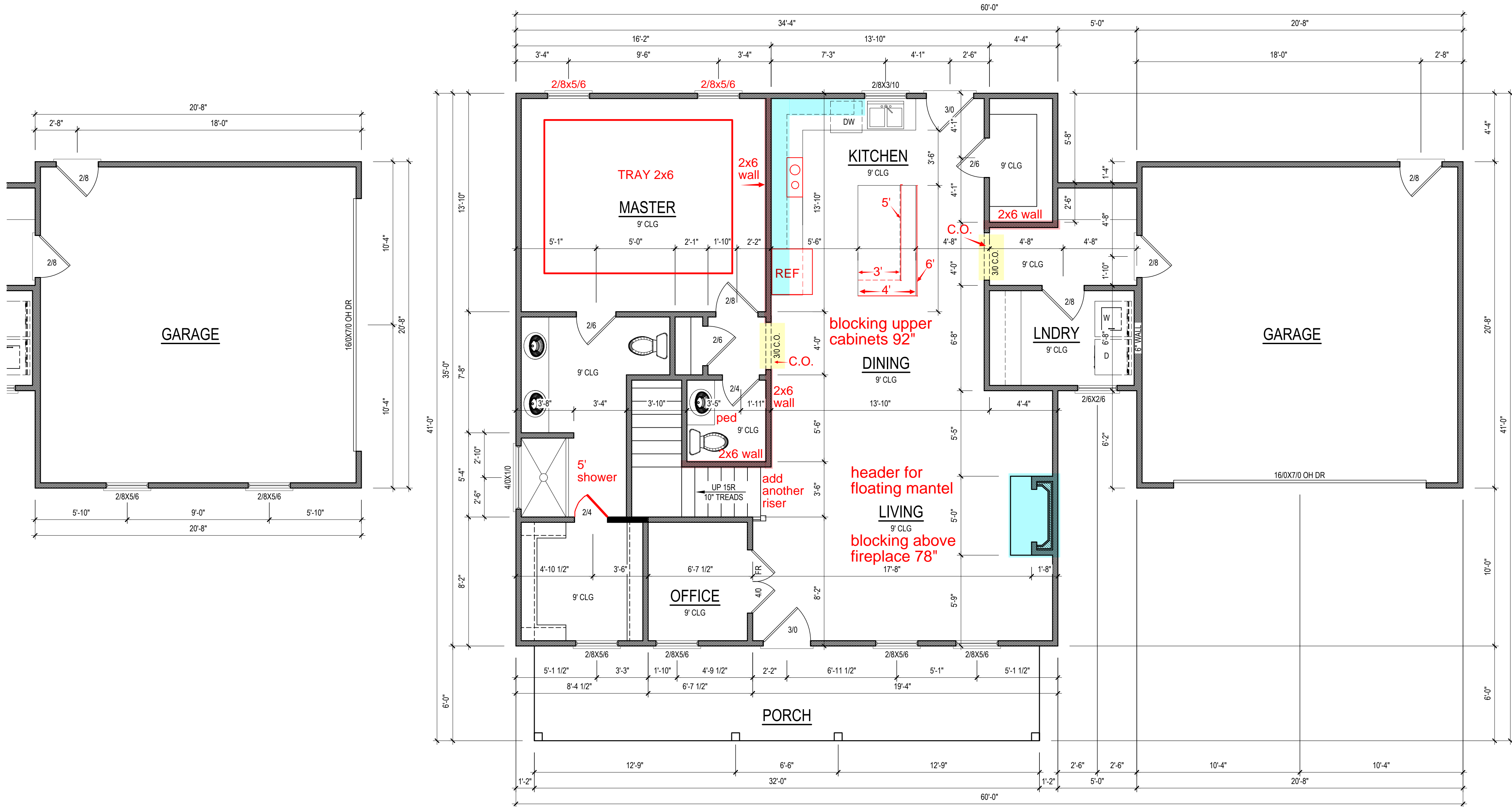


**FOUNDATION PLAN**  
1/4" = 1'-0"      STEM WALL

1. DRB DESIGN assumes no liability for any home constructed from this plan.
2. All construction shall conform to the latest regulations of "North Carolina State 2018 residential building code", in addition to all local codes and regulations.
3. 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 notification among the owner, his/her contractor, and DRB DESIGN.
5. DRB DESIGN and construction are complex and, although the designer performed his services with due care and diligence, perfection is not a guarantee.
6. Communication is imperfect and every contingency cannot be anticipated.
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.
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 arising out of such changes.
10. All dimensions on these plans are shown with 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.



- DRB DESIGN assumes no liability for any home constructed from this plan.
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NOTE: ALL EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A MINIMUM NET CLEAR OPENING OF 4 SQ FT FOR GRADE FLOOR WINDOWS AND 5.7 SQ FT FOR UPPER STORY WINDOWS. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 22". THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20". MAXIMUM SILL HEIGHT - 44" A.F.F.

NOTE: VERIFY WINDOW SILL HEIGHT CLEARANCE ABOVE TUBS AND COUNTERTOPS TO ALLOW FOR TRIM AND/OR BACKSLASH

NOTE: CONTRACTOR TO LOCATE WATER HEATER, A/C UNIT(S), AND ATTIC ACCESS ON SITE

## FIRST FLOOR PLAN

1/4" = 1'-0"

CEILING HGT. = 9'-0"

HEATED SQUARE FOOTAGE	
First Floor	1272
Second Floor	897
TOTAL HEATED	2169
UNHTD SQUARE FOOTAGE	
Garage	423
Front Porch	192
Unfinished Bonus	385
TOTAL UNHEATED	1000
TOTAL SQ FT	3169

NOTE: SEE ELEVATIONS FOR WINDOW HDR HGTS

NOTE: ALL DOORS ARE 6'-8" TALL UNO

NOTE: ALL EXTERIOR WALLS ARE NOMINAL 4" UNO

NOTE: ALL INTERIOR WALLS ARE NOMINAL 4" UNO

NOTE: ALL ANGLED WALLS ARE 45° UNO

NOTE: ALL DIMENSIONS ARE FRAME TO FRAME

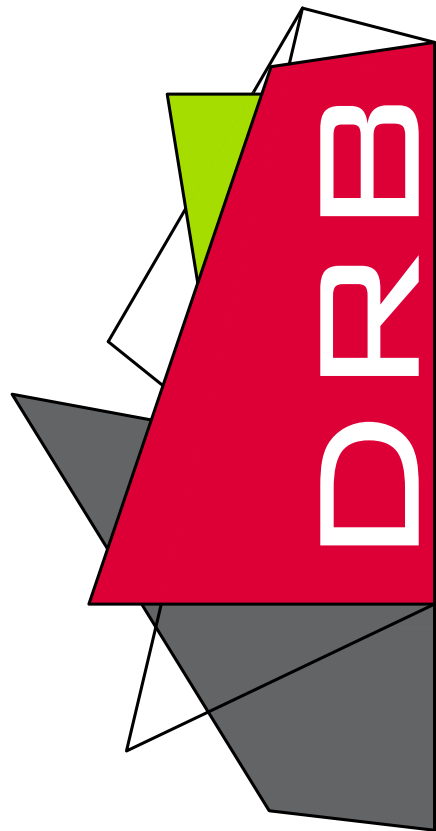
PROJECT #  
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CHECKED BY  
DRB  
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1/4" = 1'-0"

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PROJECT NAME

THE  
CARDINAL



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drbdesign@drbhomedesign.com 919.631.5979  
250 Shipwash Dr Suite 105 Garner, NC 27529

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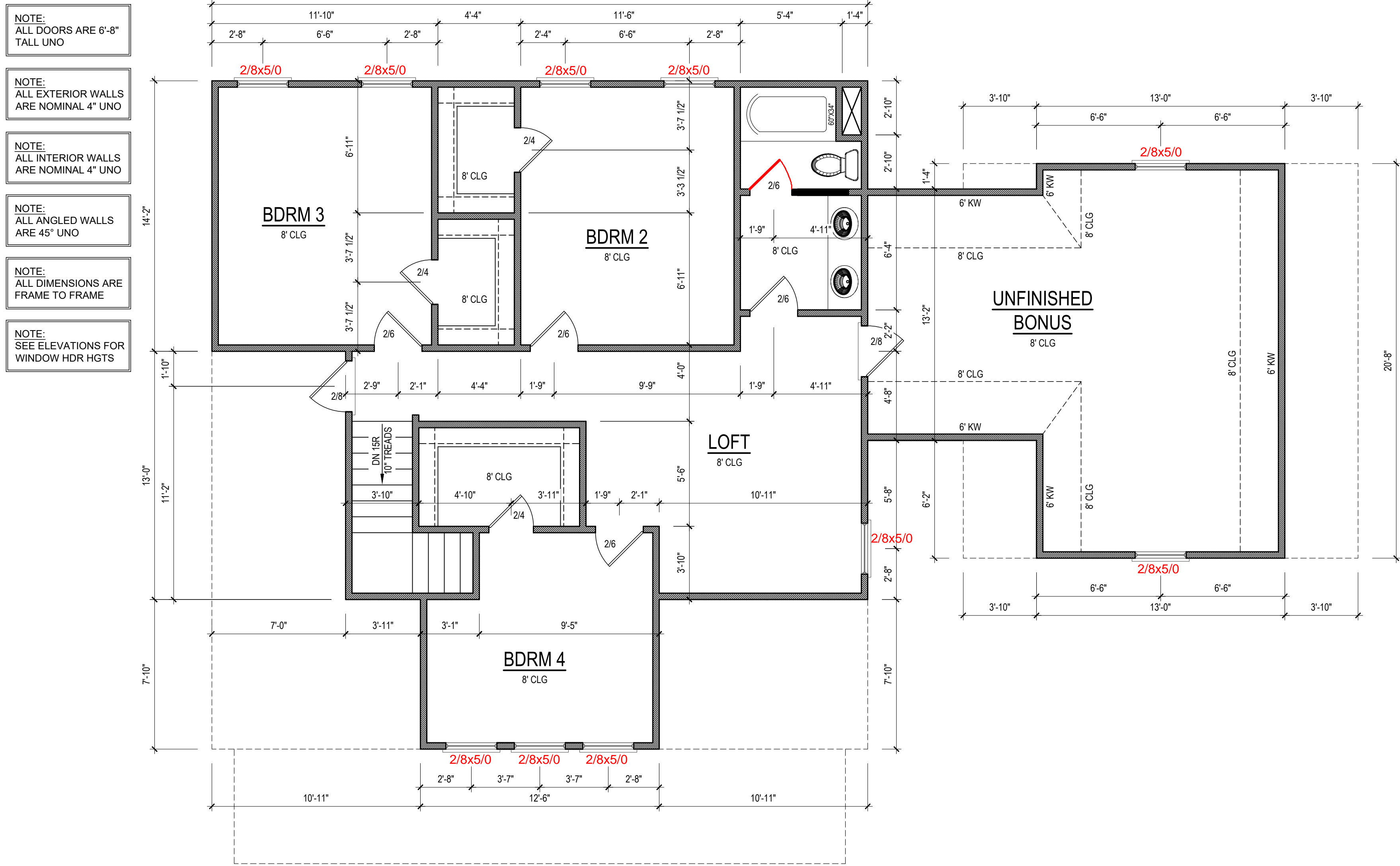
SHEET NAME

1ST\_FLOOR

SHEET #

5

of 7



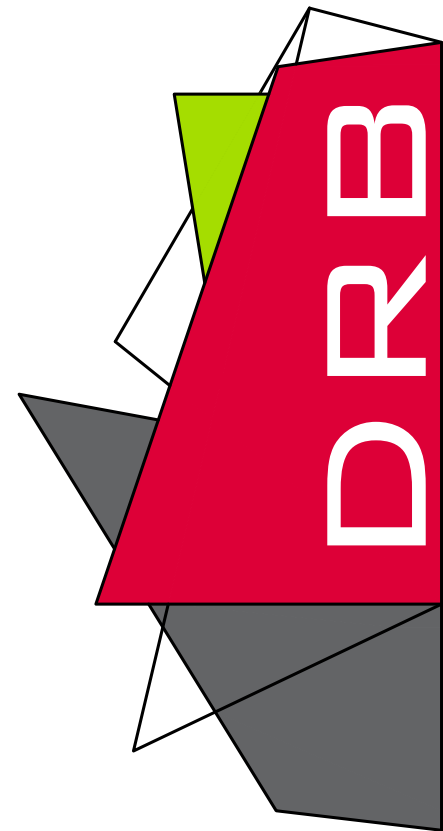
**SECOND FLOOR PLAN**  
1/4" = 1'-0"      CEILING HGT. = 8'-0"

- DRB DESIGN assumes no liability for any home constructed from this plan.
- All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code", in addition to all local codes and regulations.
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- Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN.
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DATE  
11/20/2024  
DRAWN/DESIGNED BY  
MMB  
CHECKED BY  
DRB  
SCALE  
1/4" = 1'-0"

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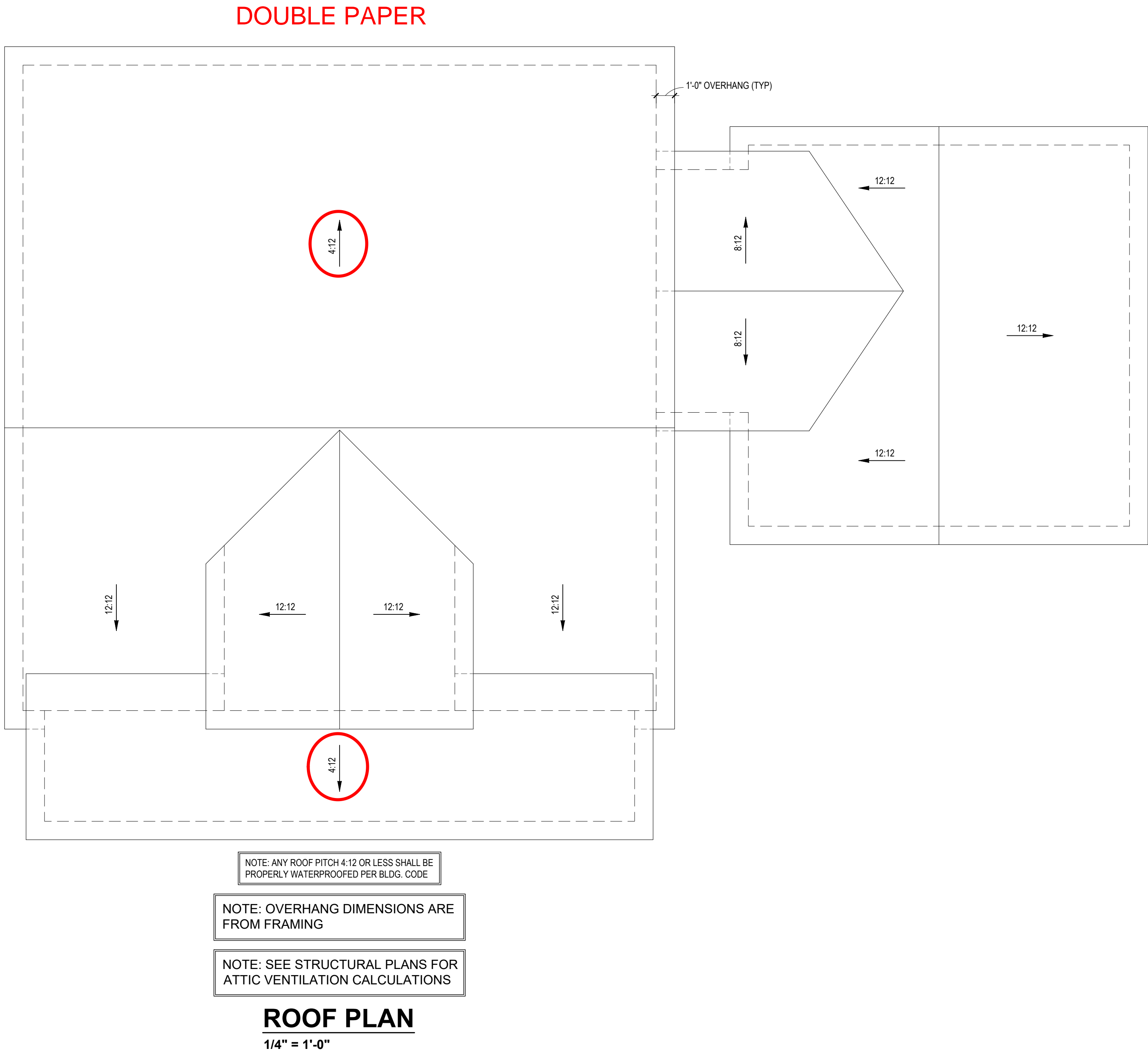
SHEET NAME  
2ND\_FLOOR

SHEET #

6

of 7



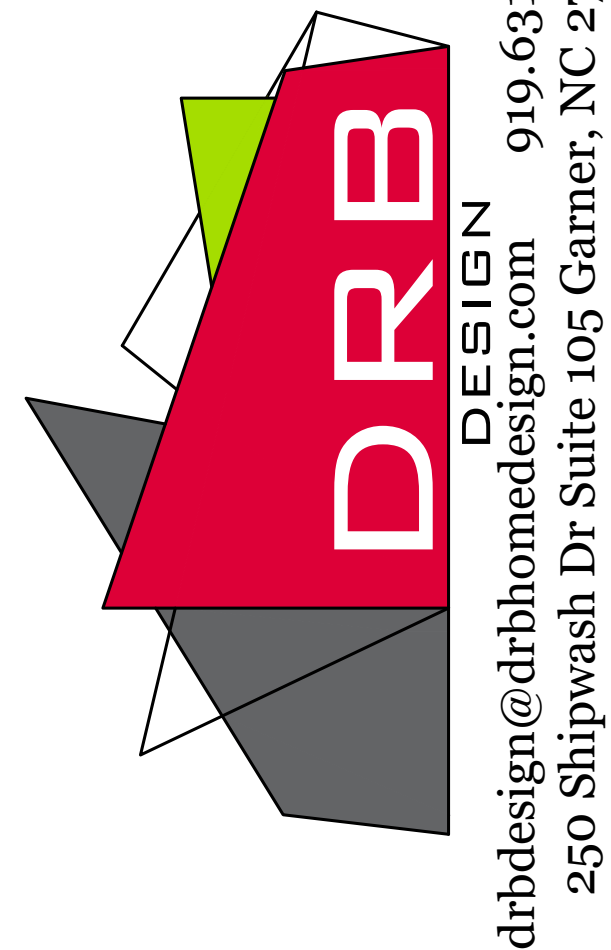


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- Should these plans require structural calculations for permitting the contractor shall be required to obtain the services of a structural engineer after notifying DRB DESIGN that such services are required.
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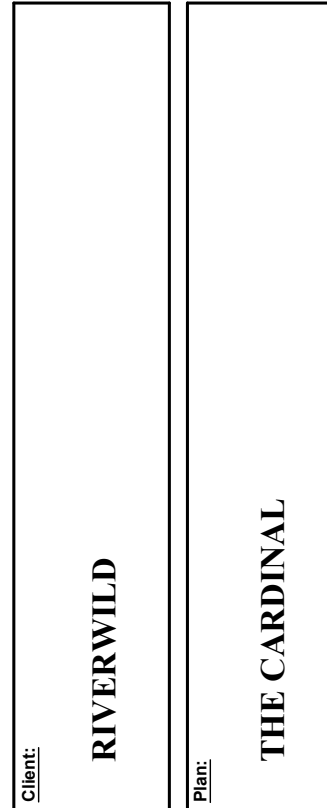
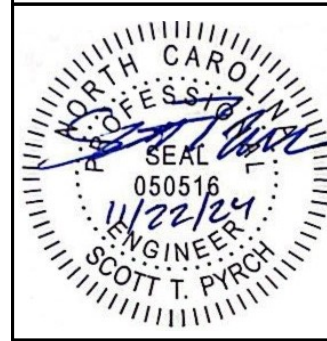
SHEET NAME  
ROOF  
SHEET #  
7  
of 7

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
			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			

STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL LUMBER SHALL BE SYP #2 (UNO).  
ALL LVL LUMBER TO BE 1.75" WIDE (ACTUAL) EACH SINGLE MEMBER AND  $F_b = 2600$  PSI,  $E = 1.9M$  PSI (OR GREATER) (I.E. iLEVEL MICROLAM)  
ALL LSL LUMBER IS TO BE 1.55E ( $F_b = 2325$  PSI) (OR GREATER)  
ALL PSL LUMBER IS TO BE 1.8E ( $F_b = 2400$  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 R602.7.3, 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) AND R602.7(2).
- 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  $F_y = 50$  KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE, 16 = 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.
- 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 602.10.3 OF THE 2018 NCR.
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

\*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.  
Any deviation or discrepancy 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 interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.

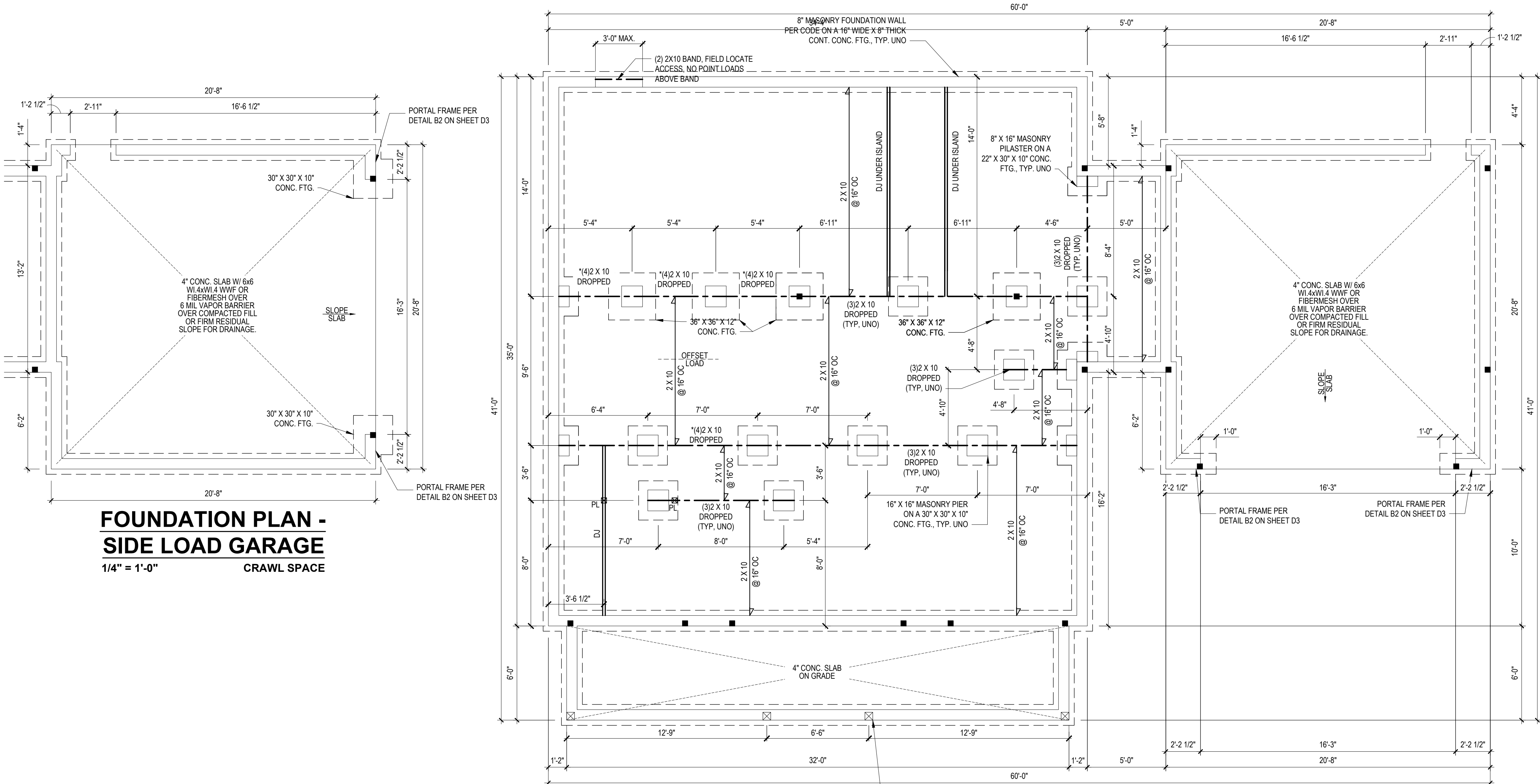


FOUNDATION PLAN  
1ST FLOOR FRAMING

Project #:	DRB2401-0315_A
Date:	11/22/2024
Engineered by:	VA
Checked by:	PAT
Scale:	SEE PLAN

REVISIONS		
No.	Date	Remarks
1		
2		
3		
4		

Sheet Number  
**S1.0**  
1 of 8



FOUNDATION PLAN -  
SIDE LOAD GARAGE  
1/4" = 1'-0" CRAWL SPACE

1268 SQ. FT. OF CRAWL SPACE / 150 = 8.5 SQ. FT. OF REQ'D VENTILATION WITHOUT CROSS VENTILATION  
8.5 SQ. FT. OF VENTILATION REQ'D / 0.88 SQ.FT. PER VENT = 9.6 VENTS REQ'D (BASED ON 8" X 16" VENTS)

-OR-

1268 SQ. FT. OF CRAWL SPACE / 1500 = 0.85 SQ. FT. OF REQ'D VENTILATION WITH CROSS VENTILATION  
0.85 SQ. FT. OF VENTILATION REQ'D / 0.88 SQ.FT. PER VENT = 1 VENT REQ'D (BASED ON 8" X 16" VENTS):

- 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.
- 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 COVERS SHALL NOT BE PROHIBITED. ONE FOUNDATION VENT SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING. TO PREVENT RAINWATER ENTRY WHEN THE CRAWL SPACE IS BUILT ON A SLOPED SITE, THE UPRIAL 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.

**CRAWL SPACE VENTILATION CALCULATION**

NO SCALE

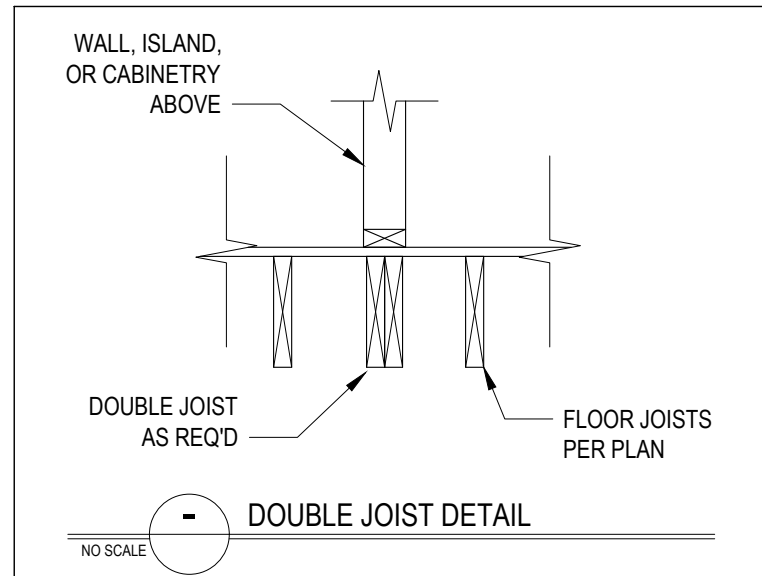
FOUNDATION PLAN  
1/4" = 1'-0" CRAWL SPACE

SECURE PT 6" X 6" POST TO  
FND. WALL W/ SIMP. ABU66Z  
W/ 5/8" DIA. ANCHOR BOLTS  
W/ 6" MIN. EMBED, TYP.

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

NOTE: ADDITIONAL JOISTS

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



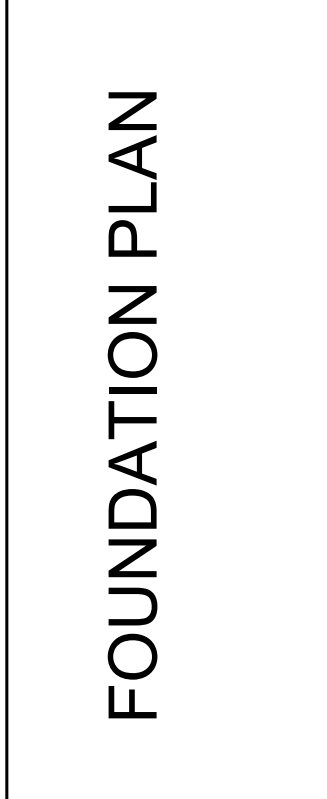
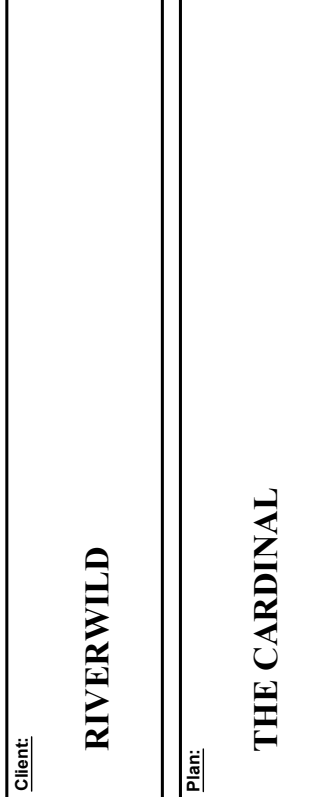
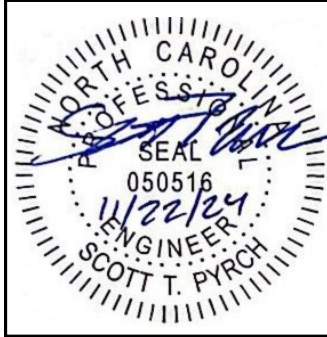


	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
			LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

STRUCTURAL NOTES:

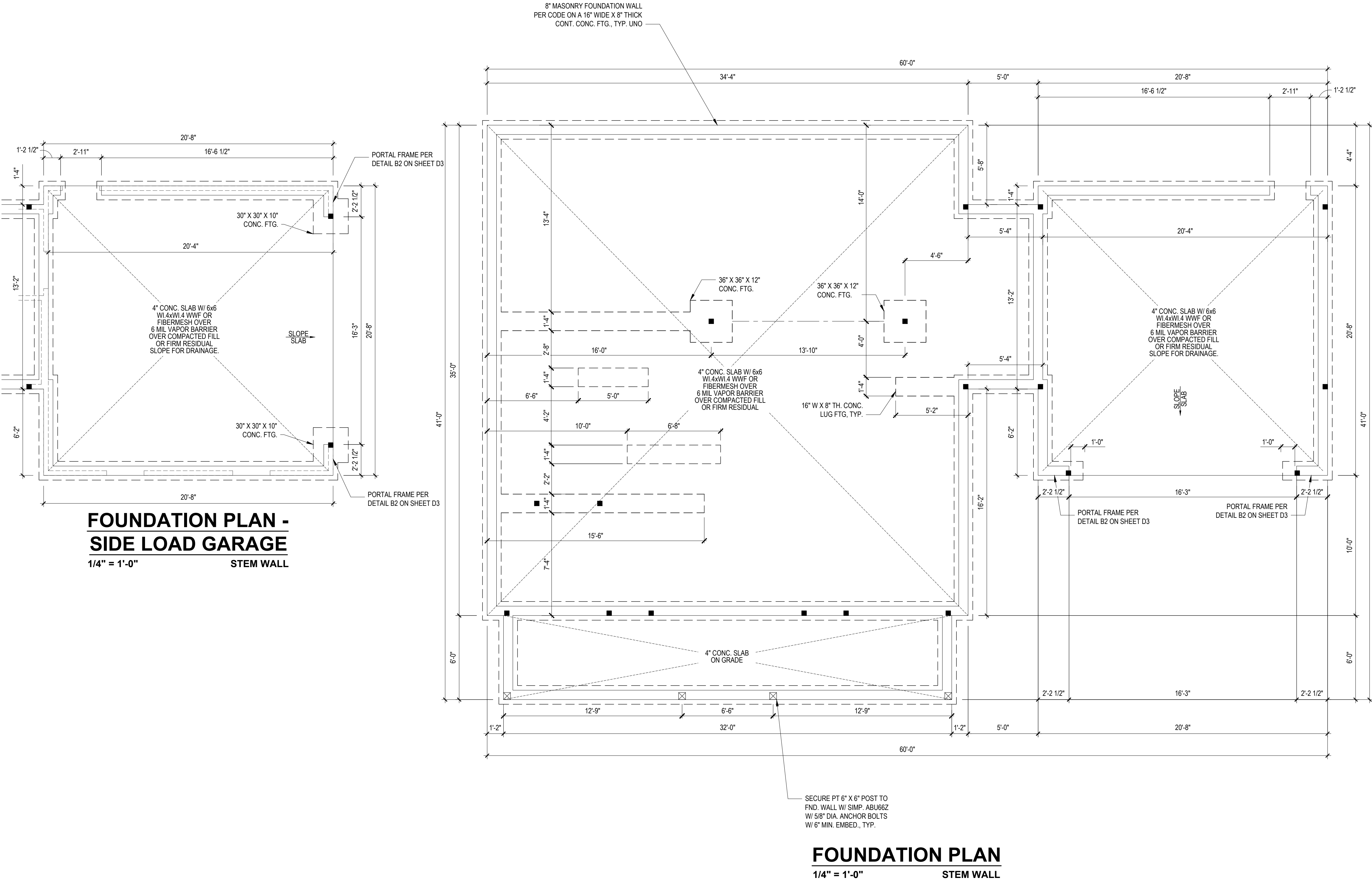
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ALL LVL LUMBER TO BE 1.75" WIDE (ACTUAL) EACH SINGLE MEMBER AND  $P_b = 2600$  PSI,  $E = 1.9M$  PSI (OR GREATER)  
(I.E. iLEVEL MICROLAM)  
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- ALL CONCRETE, 16 = 3000 PSI MIN.
- PRESUMPTIVE BEARING 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.
- 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 602.10.3 OF THE 2018 NCR.
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

\*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.  
Any deviation 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 interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.



Project #:	DRB2401-0315_A
Date:	11/22/2024
Engineered By:	VA
DWG. Checked By:	PAT
Scale:	SEE PLAN

REVISIONS		
No.	Date:	Remarks
1		
2		
3		
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**FOUNDATION PLAN -  
SIDE LOAD GARAGE**  
1/4" = 1'-0" STEM WALL

**FOUNDATION PLAN**  
1/4" = 1'-0" STEM WALL



FILENAME: Z:\MURSHI OFFICE\PROJECTS\2024\DRB2401-0315\_1\INTERMD-CORNWALL\DRB2401-0315\_1\_INTERMD-CORNWALL\DWG\122\2024\_337.PN

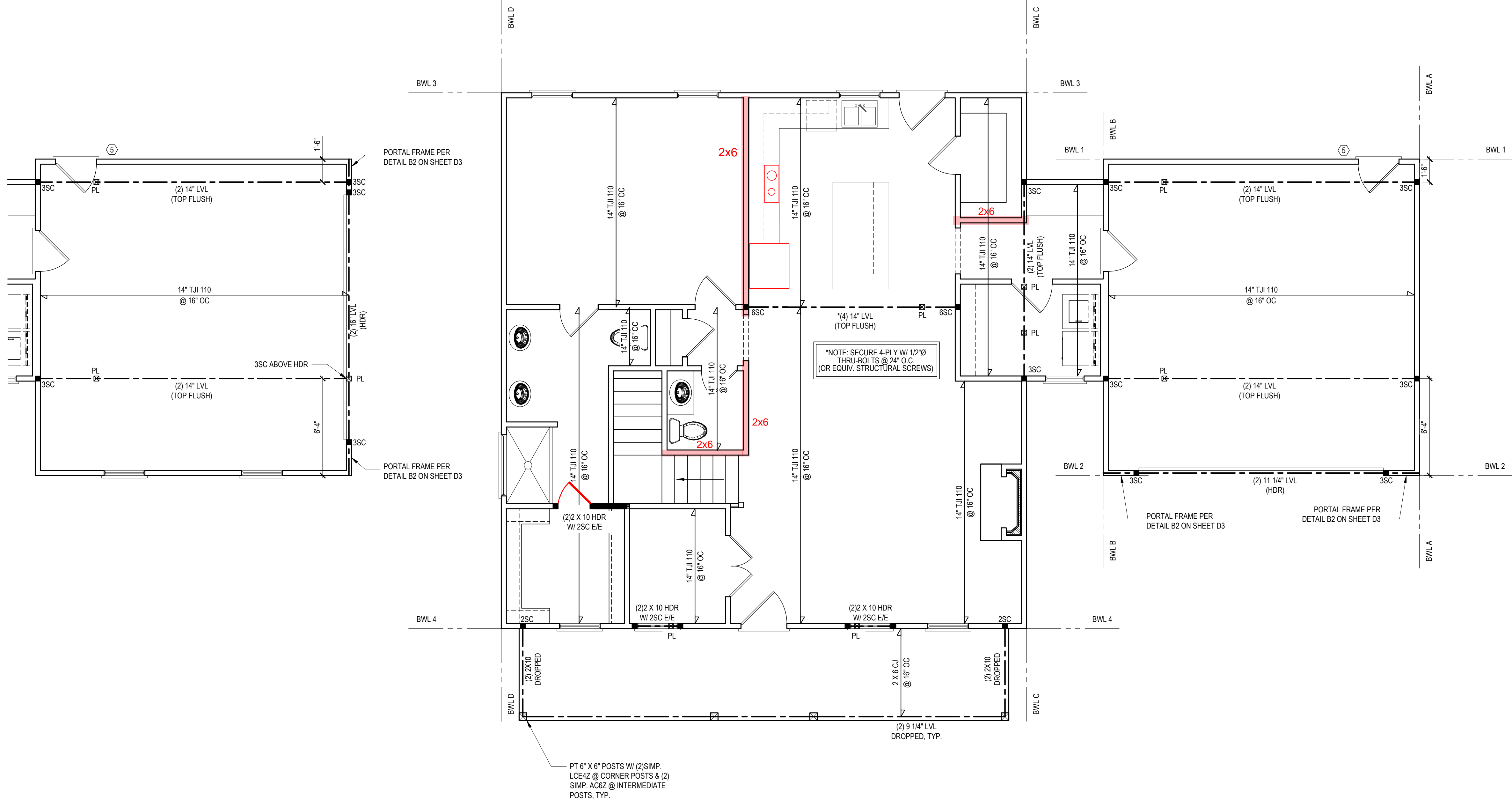
KING STUD SCHEDULE		
	MIN. # OF FULL HEIGHT STUDS (KING) E.E. OF OPENING PER WALL DEPTH	
HEADER SPAN (FT)	2 X 4 STUD WALL	2 X 6 STUD WALL
UP TO 3'-0"	1	1
3'-1" TO 6'-0"	2	1
6'-1" TO 9'-0"	3	2
9'-1" TO 12'-0"	4	2
12'-1" TO 15'-0"	5	3
15'-1" TO 18'-0"	6	3

NOTES:

a. TABLE DENOTES REQUIRED MINIMUM NUMBER OF STUDS E.E. OF HEADER, TYP. UNO ON PLANS.

b. NUMBER OF KING STUDS LISTED ABOVE ARE BASED 17' NOMINAL WALL HEIGHT, TYP. SPACING OF 16" O.C. AND ULTIMATE WIND SPEED OF 120 MPH (EXPOSURE B).

c. 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.



BRACING PANEL LENGTHS REQUIRED:  
BWL A = 5.9 FT CS-WSP  
BWL B = 5.9 FT CS-WSP  
BWL 1 = 5.9 FT CS-WSP  
BWL 2 = 5.9 FT CS-WSP

BRACING PANEL LENGTHS PROVIDED:  
BWL A = 20.6 FT CS-WSP  
BWL B = 6.1 FT CS-WSP  
BWL 1 = 16.6 FT CS-WSP  
BWL 2 = 6.9 CS-WSP/PF

## FIRST FLOOR PLAN

1/4" = 1'-0"      CEILING HGT. = 9'-0"

BRACING PANEL LENGTHS REQUIRED:  
BWL C = 8.8 FT CS-WSP  
BWL D = 8.8 FT CS-WSP  
BWL 3 = 9.0 FT CS-WSP  
BWL 4 = 5.7 FT CS-WSP

BRACING PANEL LENGTHS PROVIDED:  
BWL C = 21.6 FT CS-WSP  
BWL D = 30.3 FT CS-WSP  
BWL 3 = 20.8 FT CS-WSP  
BWL 4 = 14.7 FT CS-WSP

### DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
			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			

### STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL LUMBER SHALL BE SYP #2 (UNO)  
ALL LVL LUMBER TO BE 1.75" WIDE (ACTUAL) EACH SINGLE MEMBER AND  $F_b = 2600$  PSI,  $E = 1.9M$  PSI (OR GREATER) (I.E. LEVEL MICROLAM)  
ALL LSL LUMBER IS TO BE 1.55E ( $F_b = 2325$  PSI) (OR GREATER)  
ALL PSL LUMBER IS TO BE 1.8E ( $F_b = 2400$  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) 10x 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) AND R602.7(2).
- 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  
 $F_y = 50$  KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE,  $f_c = 3000$  PSI MIN.
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 1/2" 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.
- 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 602.10.3 OF THE 2018 NCRC.
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

### STRUCTURAL SHEATHING NOTES

- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCRC.
- 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.
- 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 EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS

3

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
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- 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

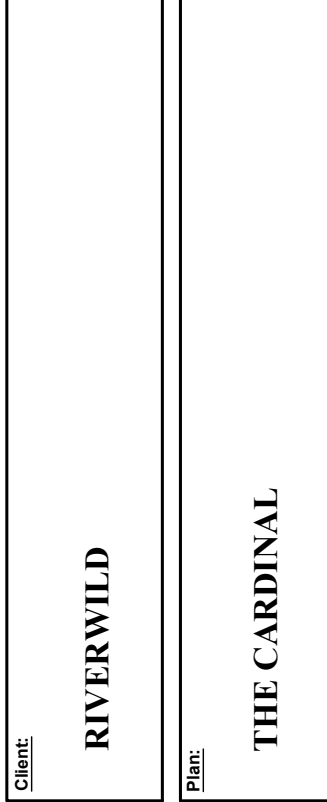
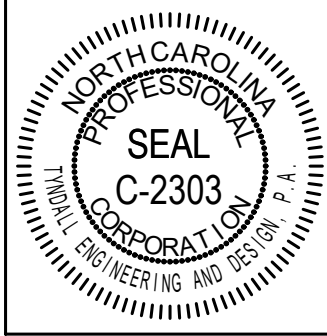
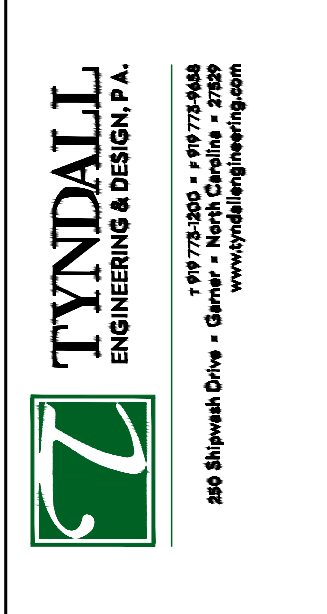
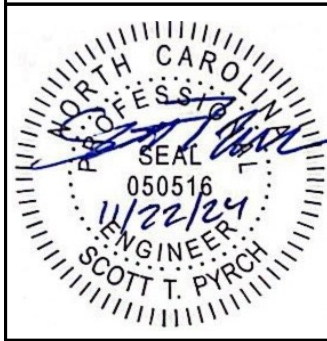
- 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT.

- 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT
- SHEATH INTERIOR & EXTERIOR
- FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE 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 FRAMING BELOW.  

5

MINIMUM 800# HOLD-DOWN DEVICE

\*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.  
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## 1ST FLOOR HEADER 2ND FLOOR FRAMING

Project #:	DRB2401-0315_A
Date:	11/22/2024
Engineered By:	VA
DWG. Checked By:	PAT
Scale:	SEE PLAN

REVISIONS		
No.	Date	Remarks
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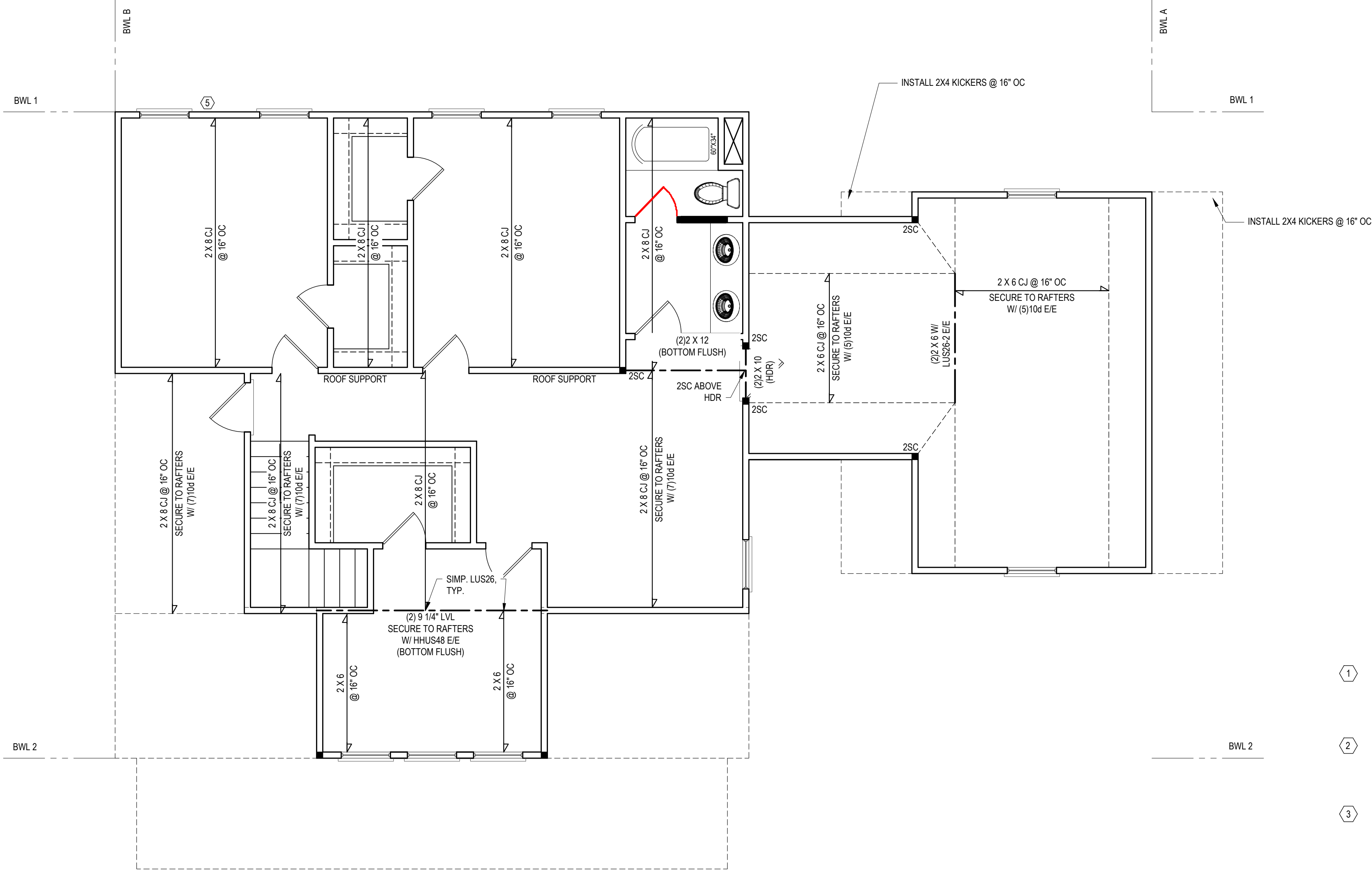


KING STUD SCHEDULE		
	MIN. # OF FULL-HEIGHT STUDS (KING) E.E. OF OPENING PER WALL DEPTH	
HEADER SPAN (FT)	2 X 4 STUD WALL	2 X 6 STUD WALL
UP TO 3'-0"	1	1
3'-1" TO 6'-0"	2	1
6'-1" TO 9'-0"	3	2
9'-1" TO 12'-0"	4	2
12'-1" TO 15'-0"	5	3
15'-1" TO 18'-0"	6	3

NOTES:  
a. TABLE DENOTES REQUIRED MINIMUM NUMBER OF STUDS E.E. OF HEADER, TYP. UNO ON PLANS  
b. NUMBER OF KING STUDS LISTED ABOVE ARE BASED TO NOMINAL WALL HEIGHT, STUD SPACING OF 16" O.C., AND ULTIMATE WIND SPEED OF 120 MPH (EXPOSURE B)  
c. 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

BRACING PANEL LENGTHS REQUIRED:  
BWL A = 8.8 FT CS-WSP  
BWL B = 8.8 FT CS-WSP  
BWL 1 = 5.7 FT CS-WSP  
BWL 2 = 5.7 FT CS-WSP

BRACING PANEL LENGTHS PROVIDED:  
BWL A = 14.1 FT CS-WSP  
BWL B = 14.1 FT CS-WSP  
BWL 1 = 16.88 FT CS-WSP  
BWL 2 = 13.5 CS-WSP



## SECOND FLOOR PLAN

1/4" = 1'-0"      CEILING HGT. = 8'-0"

### DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
			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			

### STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
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- ALL LUMBER SHALL BE SYP #2 (UNO)  
ALL LVL LUMBER TO BE 1.75" WIDE (ACTUAL) EACH SINGLE MEMBER AND  $F_b = 2600$  PSI,  $E = 1.9M$  PSI (OR GREATER)  
(I.E. i-LEVEL MICROLAM)  
ALL LSL LUMBER IS TO BE 1.55E ( $F_b = 2325$  PSI) (OR GREATER)  
ALL PSL LUMBER IS TO BE 1.8E ( $F_b = 2400$  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) 10# 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) AND R602.7(2).
- 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  
 $F_y = 50$  KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE,  $f_c = 3000$  PSI MIN.
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 1/2" 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.
- 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 602.10.3 OF THE 2018 NCRC.
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

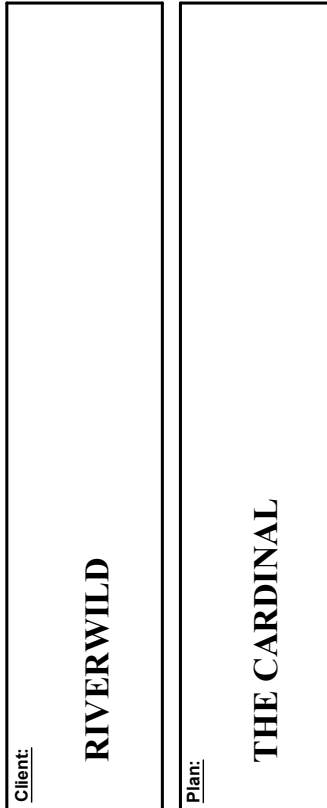
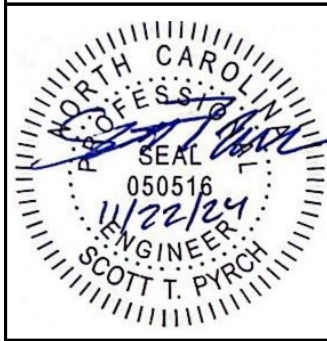
### STRUCTURAL SHEATHING NOTES

- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCRC.
- 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.
- REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
- 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)  
  
1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING).  
SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) 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 8" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- 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 WALL HEIGHT
- SHEATH INTERIOR & EXTERIOR

- FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE 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 FRAMING BELOW.

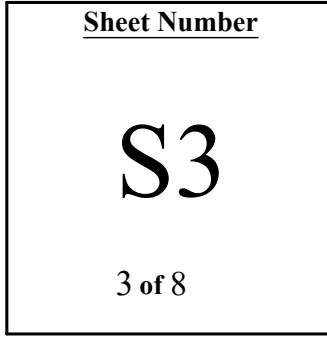
- MINIMUM 800# HOLD-DOWN DEVICE

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Project #:	DRB2401-0315_A
Date:	11/22/2024
Engineered By:	VA
DWG. Checked By:	PAT
Scale:	SEE PLAN

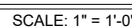
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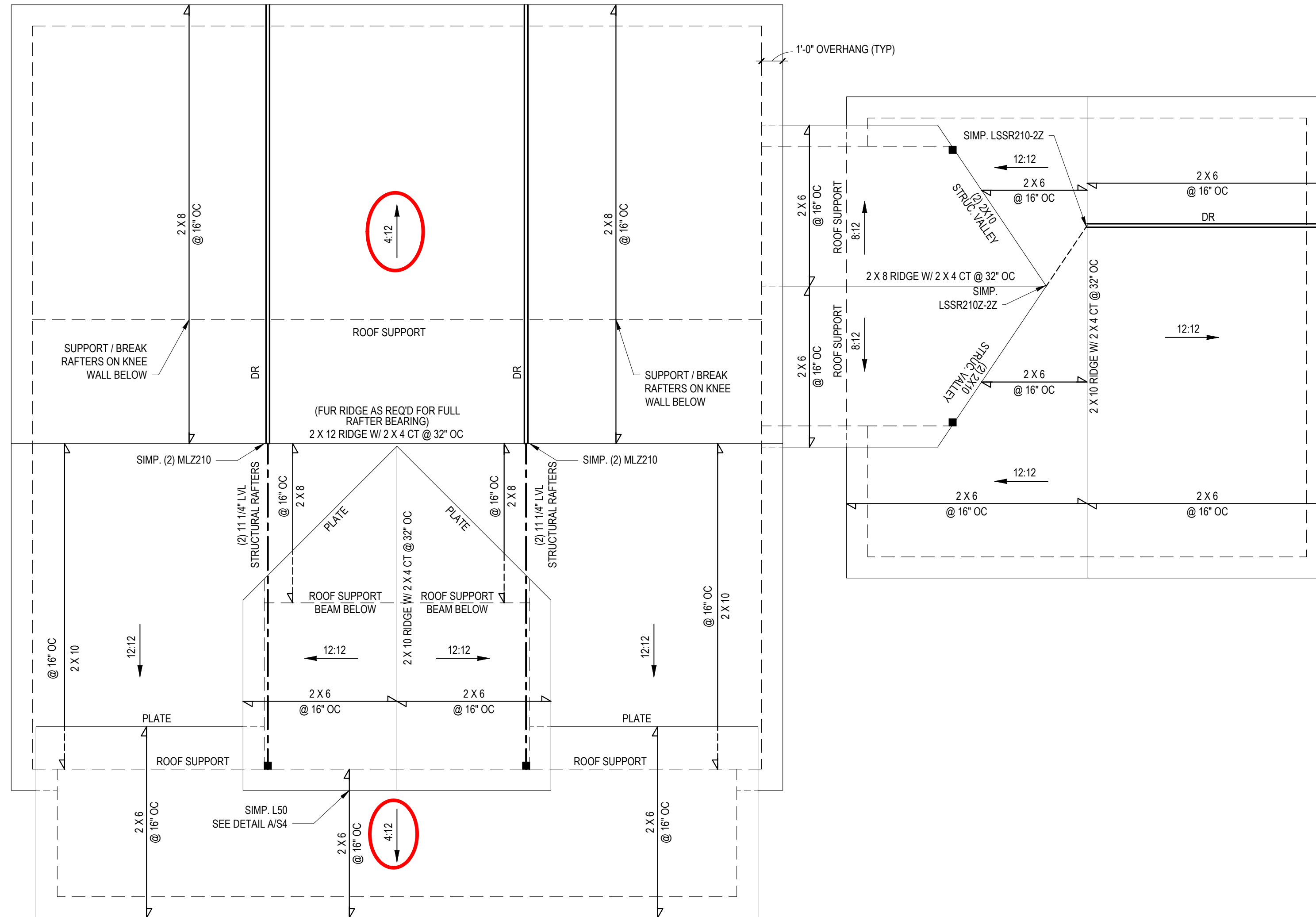


- 1) CALCULATION BASED ON VENTILATORS USED AT LEAST 3'-0" ABOVE THE COMICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED BY EAVE VENTS.
- 2) CATHEDRAL CEILINGS SHALL HAVE A 1" MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

NO SCALE



**1/4" = 1'-0"**



2

250 Shipwash

# ROOF PLAN

**Date:**  
11/22/2024

VA

Scale:

F

S4

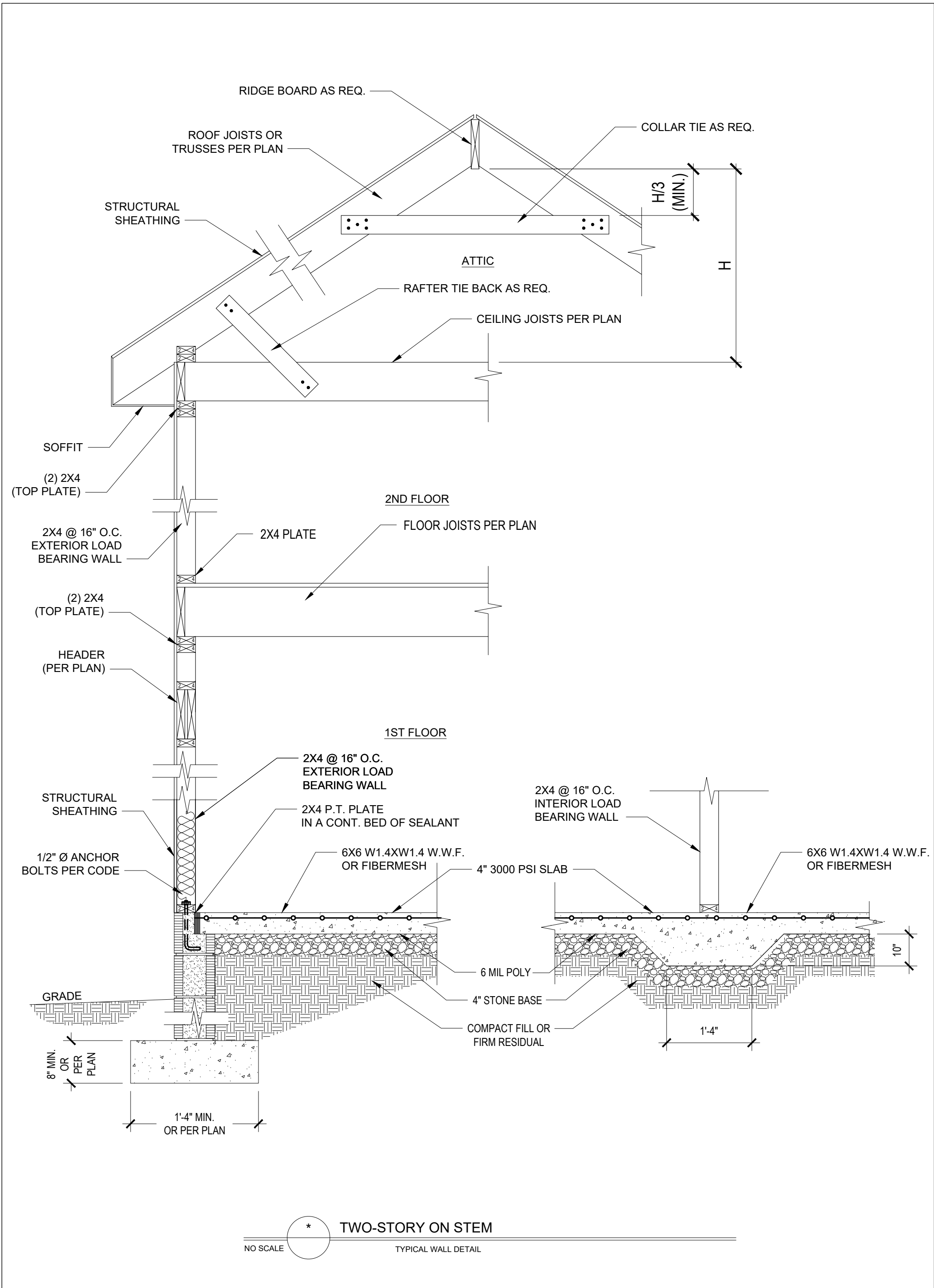
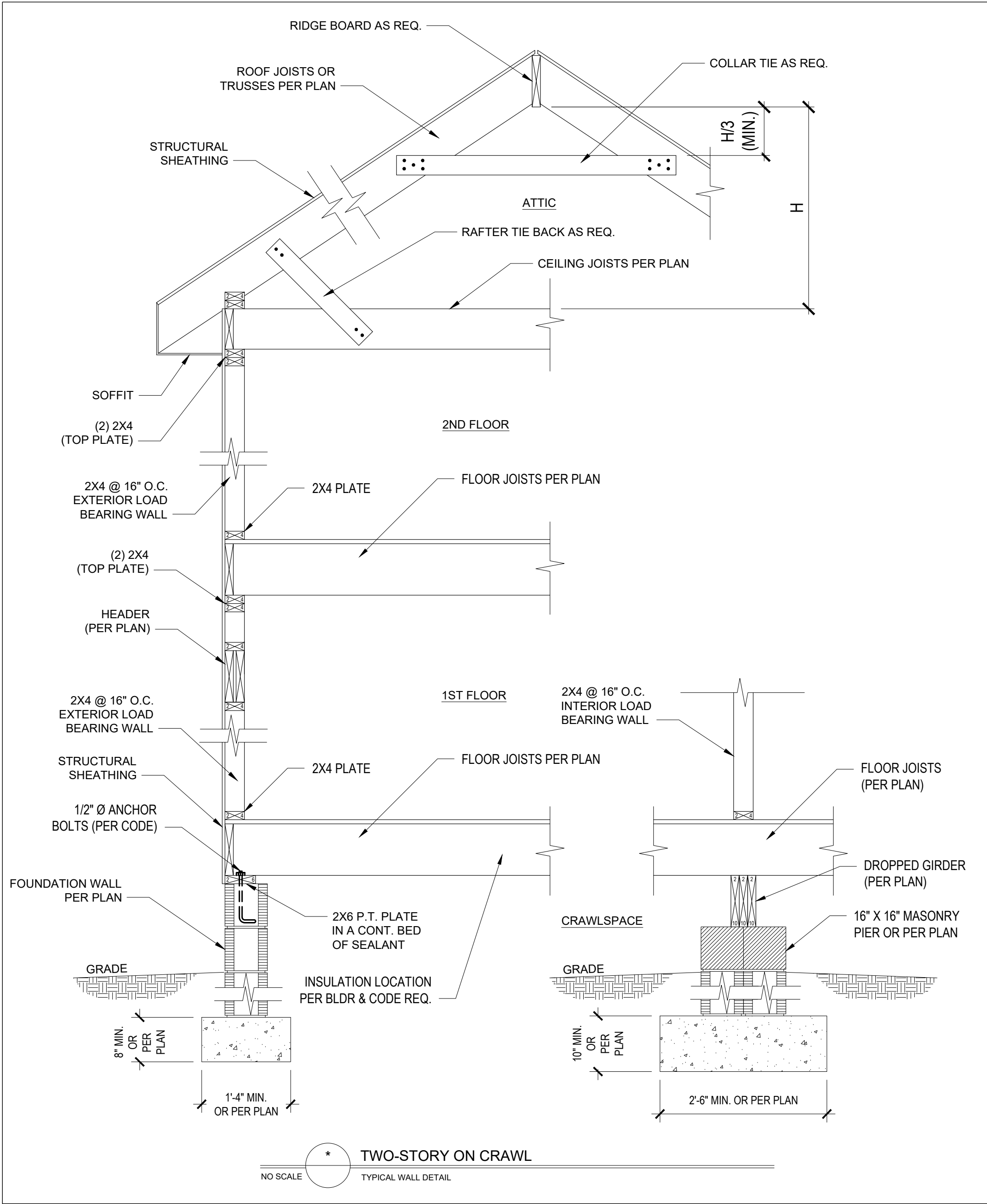
4 of 8







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Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution. Any deviation 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 interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.

Professional Seal  
050516  
11/22/24  
ENGINEER  
SCOTT T. PIRCH

**TYNDALL**  
ENGINEERING & DESIGN P.A.  
189-773-3901 • 189-773-4444  
www.tyndallengineering.com  
189 Blywood Drive • Garner • North Carolina • 27828

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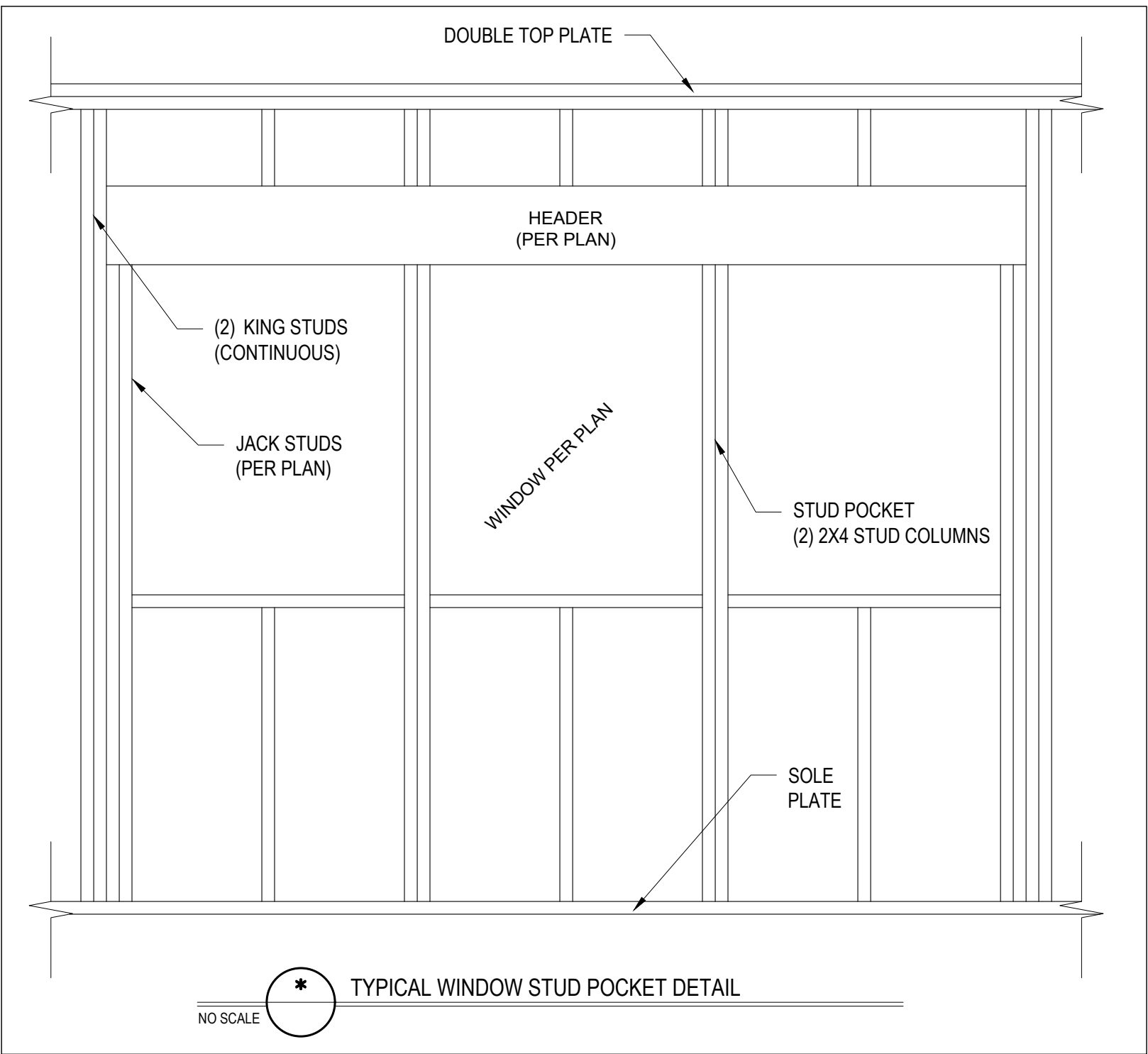
Client: **RIVERWILD**  
Plan: **THE CARDINAL**

**STANDARD DETAILS**

Project #: **DRB2401-0315\_A**  
Date: **11/22/2024**  
Engineered By: **VA**  
DWG. Checked By: **PAT**  
Scale: **SEE PLAN**

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6 of 8





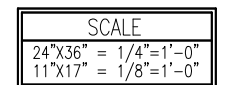


NO SCALE

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REVISIONS:


## Screen Porch Detail

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GN

WN
ADS
CKED

1/15/2013

T