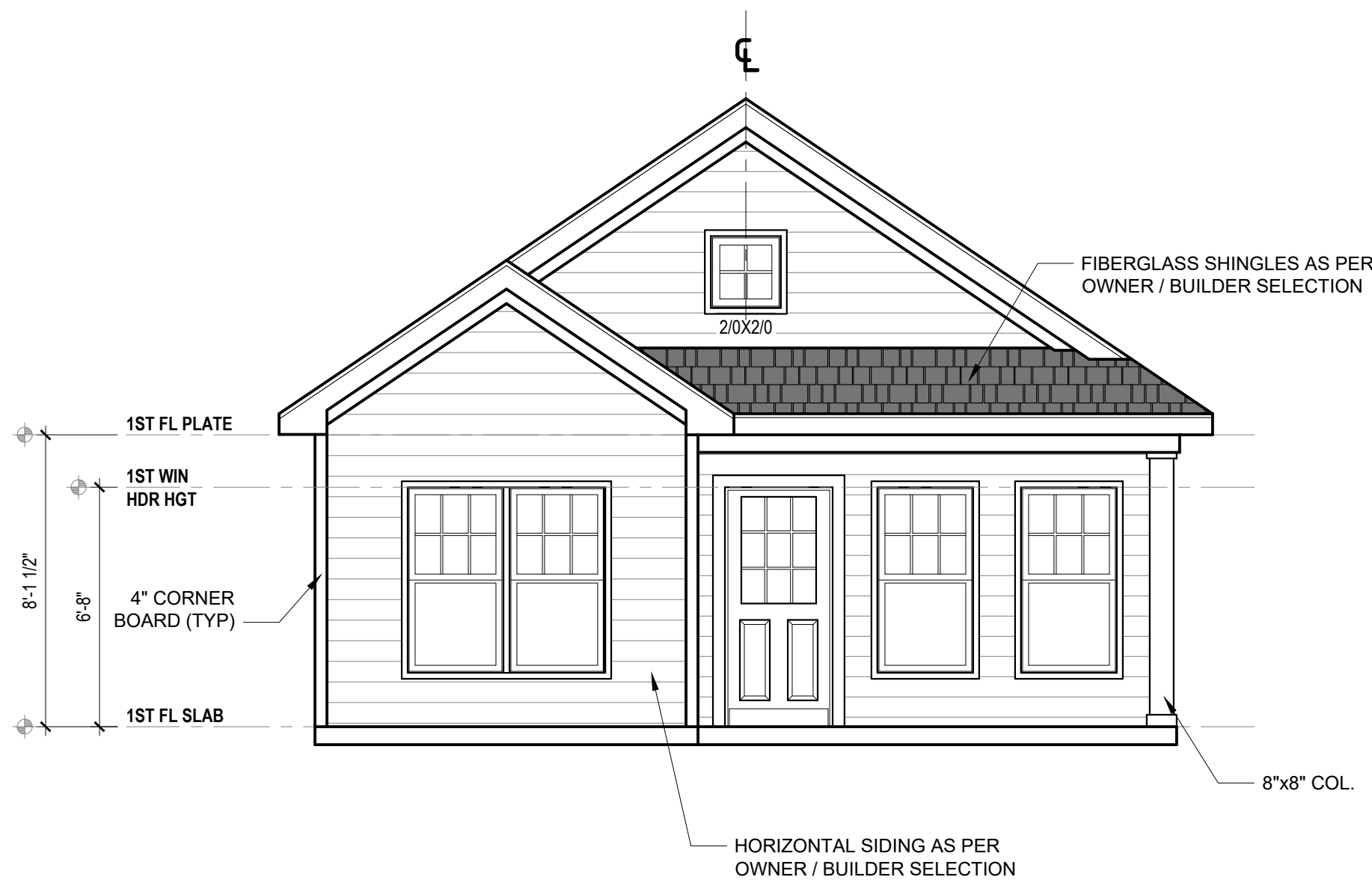


# THE LAWRENCE



## FRONT ELEVATION

1/4" = 1'-0"

FIBERGLASS SHINGLES AS PER  
OWNER / BUILDER SELECTION

NOTE: CONTRACTOR TO PROVIDE ADEQUATE  
ROOF VENTILATION PER BUILDING CODE

4" CORNER  
BOARD (TYP)

8"x8" COL.

HORIZONTAL SIDING AS PER  
OWNER / BUILDER SELECTION

## RIGHT ELEVATION

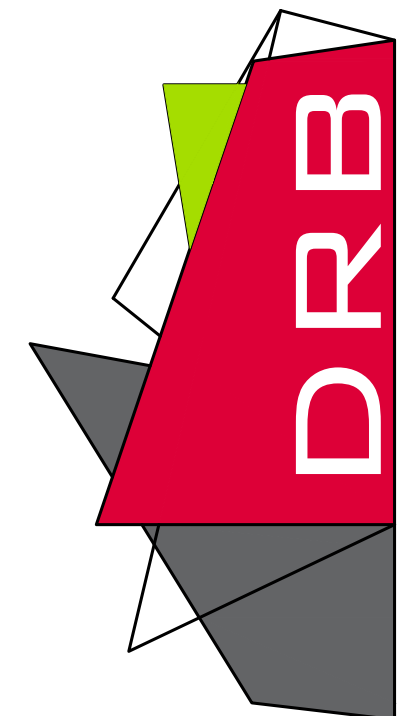
1/4" = 1'-0"

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- 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.

PROJECT #  
DRB2501-0134  
DATE  
04/02/2025  
DESIGNED BY  
MMB  
CHECKED BY  
DRB  
SCALE  
1/4" = 1'-0"

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drbhomedesign  
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PROJECT NAME  
THE  
LAWRENCE



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

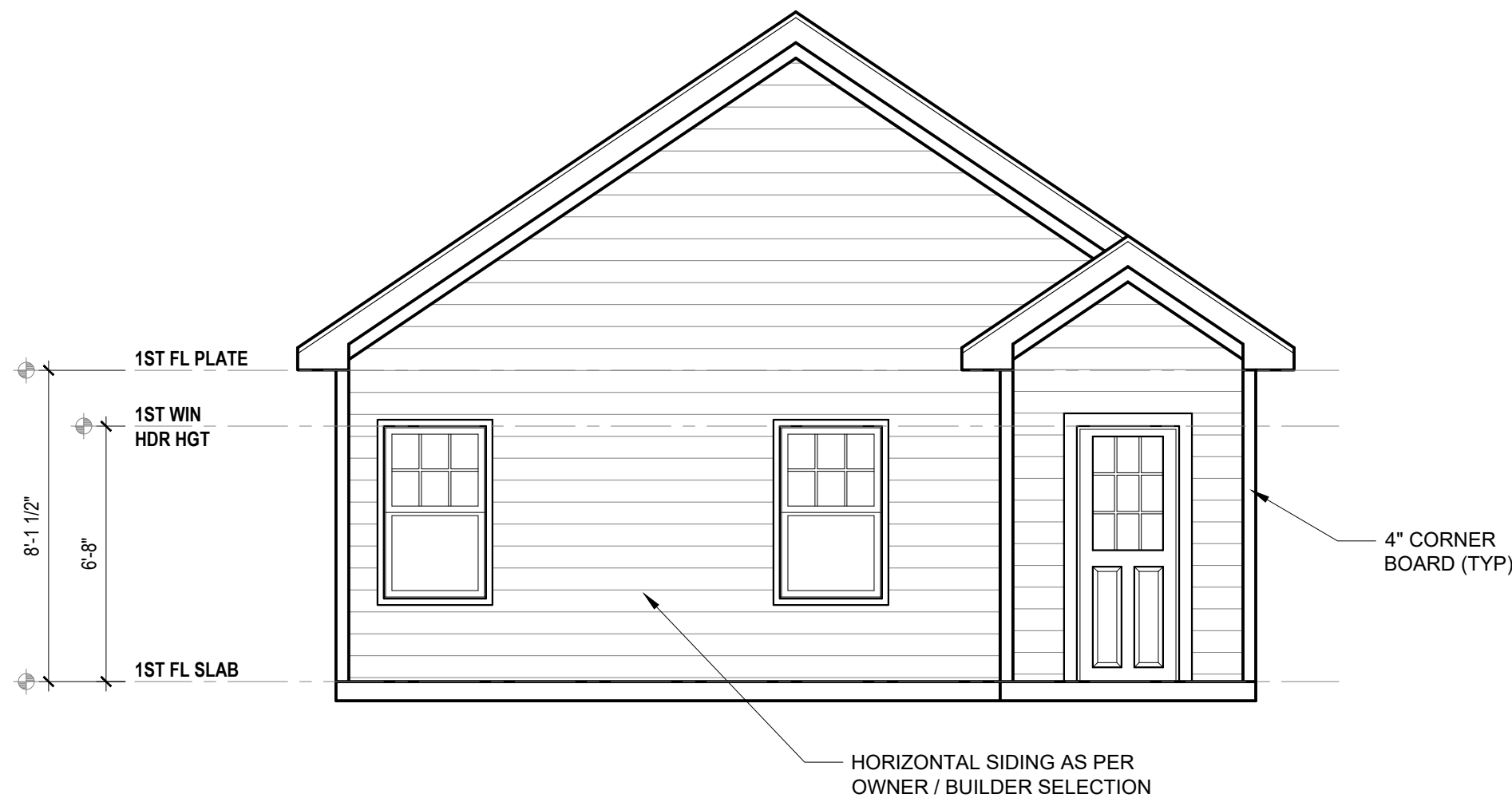
CLIENT NAME  
Veneta Ford  
1300 Benson Rd  
Garner, NC 27529  
vford@vfgrealty.com  
919-795-9764

SHEET NAME  
ELEVATIONS  
SHEET #

1

of 6

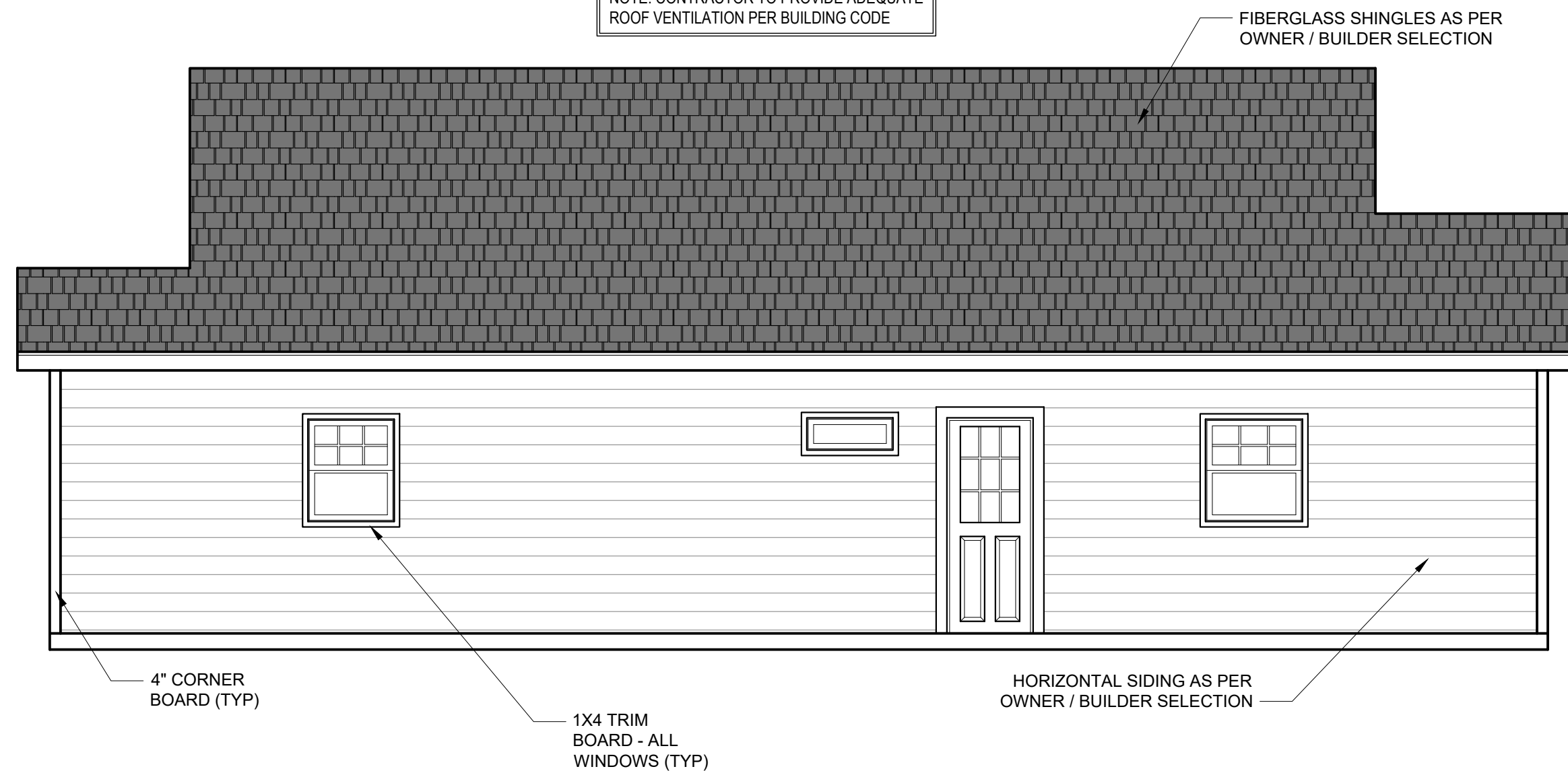
# THE LAWRENCE



## REAR ELEVATION

1/4" = 1'-0"

NOTE: CONTRACTOR TO PROVIDE ADEQUATE  
ROOF VENTILATION PER BUILDING CODE



## LEFT ELEVATION

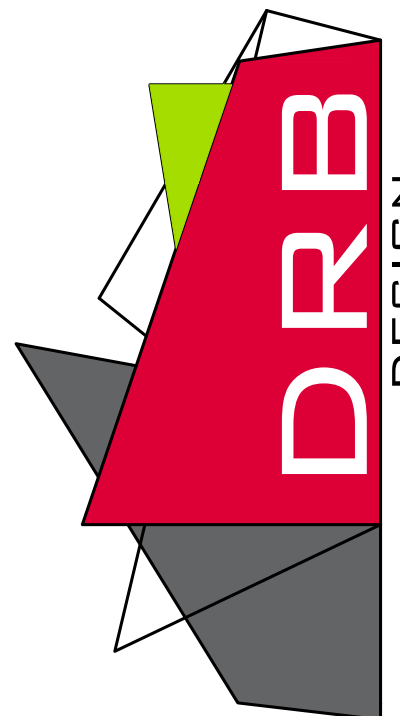
1/4" = 1'-0"

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MMB  
CHECKED BY  
DRB  
SCALE  
1/4" = 1'-0"

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PROJECT NAME  
THE  
LAWRENCE



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

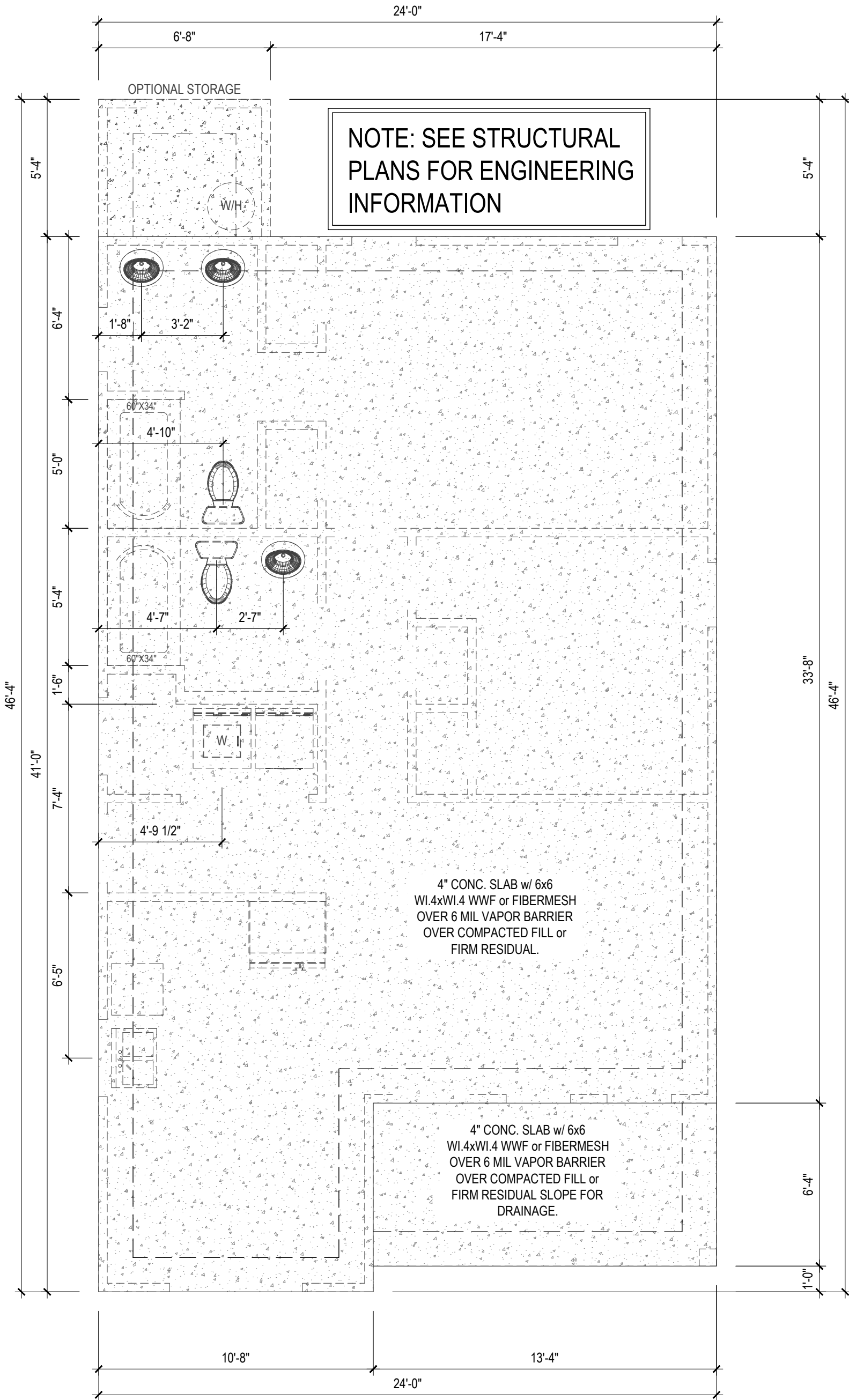
CLIENT NAME  
Veneta Ford  
1300 Benson Rd  
Garner, NC 27529  
vford@vfgrealty.com  
919-795-9764

SHEET NAME  
ELEVATIONS  
SHEET #

2

of 6

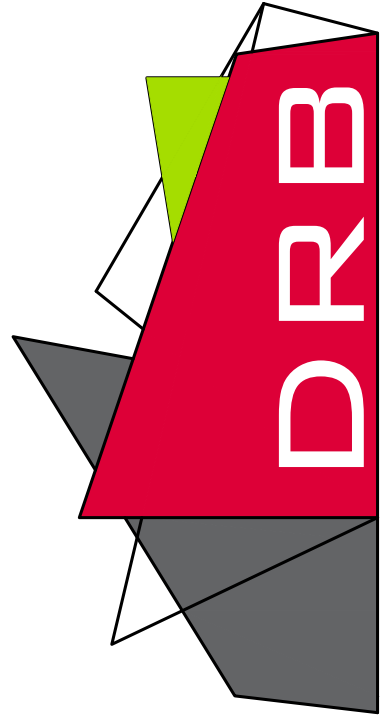
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## FOUNDATION PLAN

1/4" = 1'-0"

MONOSLAB



**PROJECT #**  
DRB2501-0134  
**DATE**  
04/02/2025  
**DESIGNED BY**  
MMB  
**CHECKED BY**  
DRB  
**SCALE**  
1/4" = 1'-0"

**PROJECT NAME**  
THE  
LAWRENCE  
**WWW.**  
drbhomedesign  
.com

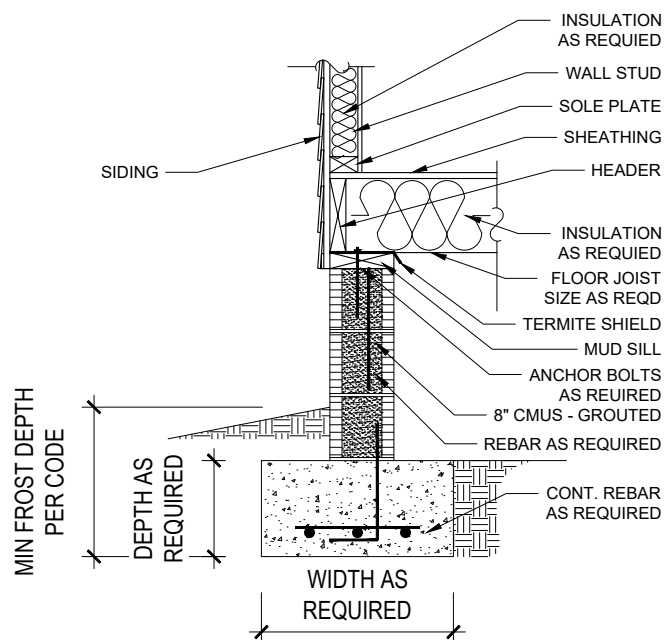
**CLIENT NAME**  
Veneta Ford  
1300 Benson Rd  
Garner, NC 27529  
vford@vfgrealty.com  
919-795-9764

**CLIENT NAME**  
Veneta Ford  
1300 Benson Rd  
Garner, NC 27529  
vford@vfgrealty.com  
919-795-9764

**SHEET NAME**  
FOUND SLAB  
**SHEET #**  
3

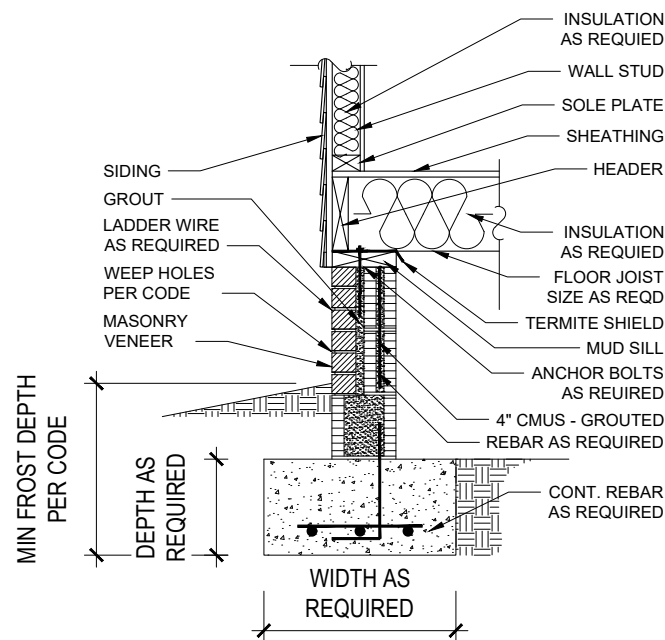


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A-31 FOUNDATION WALL DETAIL

NTS



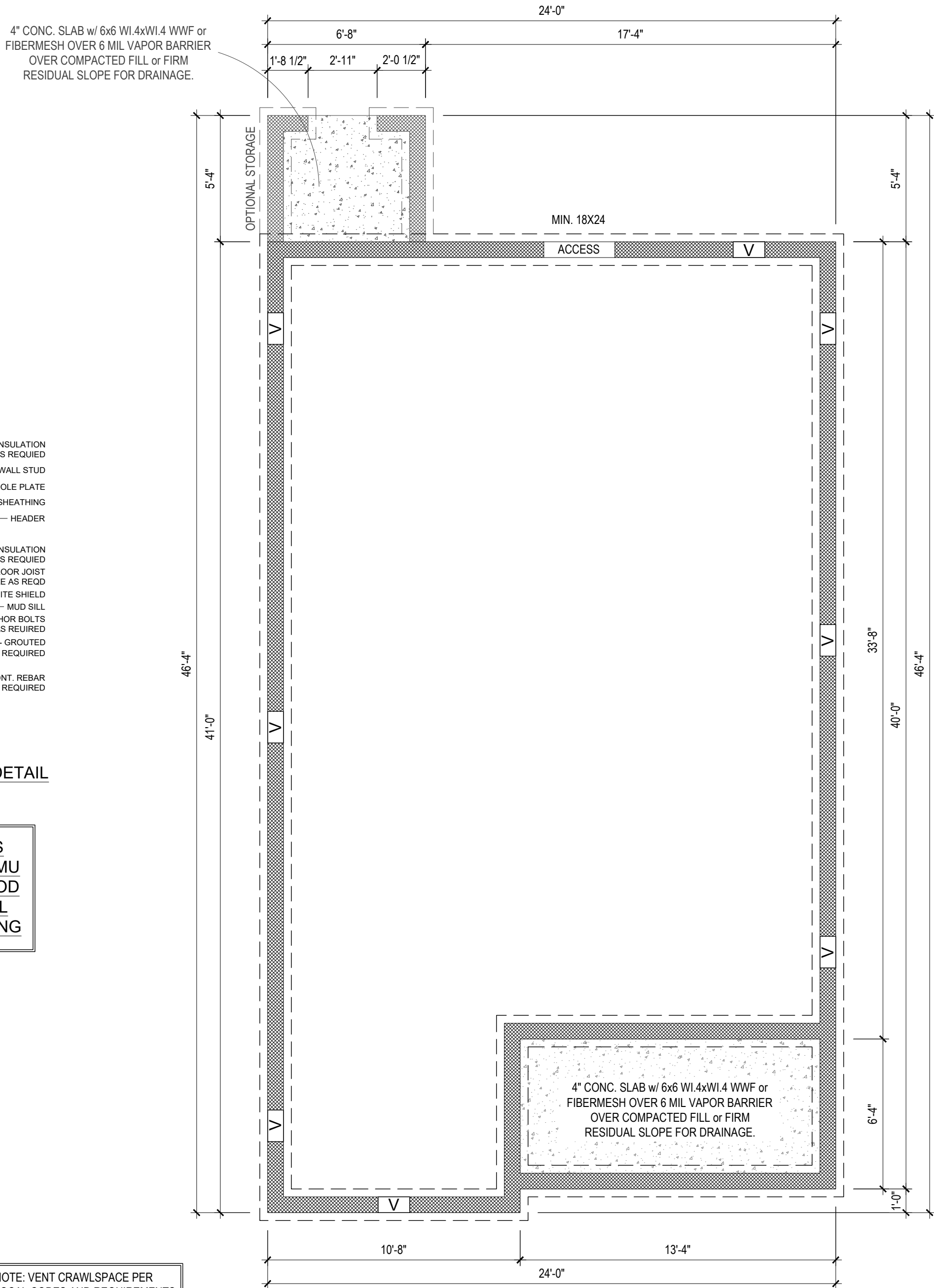
A-21 FOUNDATION WALL DETAIL

NTS

THE 8" FOUNDATION WALLS ON THIS PLAN CAN BE CONSTRUCTED AS SHOWN IN EITHER OF THESE GENERIC DETAILS. YOU CAN USE AN 8" CMU WALL OR 4" CMU WITH A BRICK FRONT. REGARDLESS OF WHICH METHOD YOU CHOOSE, THE OUTSIDE DIMENSION OF THE 8" FOUNDATION WALL SHOULD MATCH THE OUTSIDE DIMENSION OF THE FIRST FLOOR FRAMING

NOTE: VENT CRAWLSPACE PER LOCAL CODES AND REQUIREMENTS

NOTE: SEE STRUCTURAL PLANS FOR ENGINEERING INFORMATION AND CRAWLSPACE VENTILATION CALCULATIONS



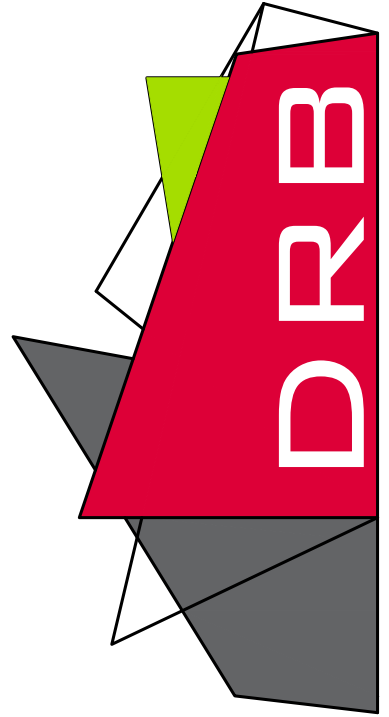
## FOUNDATION PLAN

1/4" = 1'-0"

CRAWLSPACE

PROJECT #  
DRB2501-0134  
DATE  
04/02/2025  
DESIGNED BY  
MMB  
CHECKED BY  
DRB  
SCALE  
1/4" = 1'-0"

PROJECT NAME  
THE LAWRENCE  
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250 Shipwash Dr Suite 105 Garner, NC 27529

CLIENT NAME  
Veneta Ford  
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Garner, NC 27529  
vford@vfgrealty.com  
919-795-9764

SHEET NAME  
FOUND CRAWL  
SHEET #

4

of 6

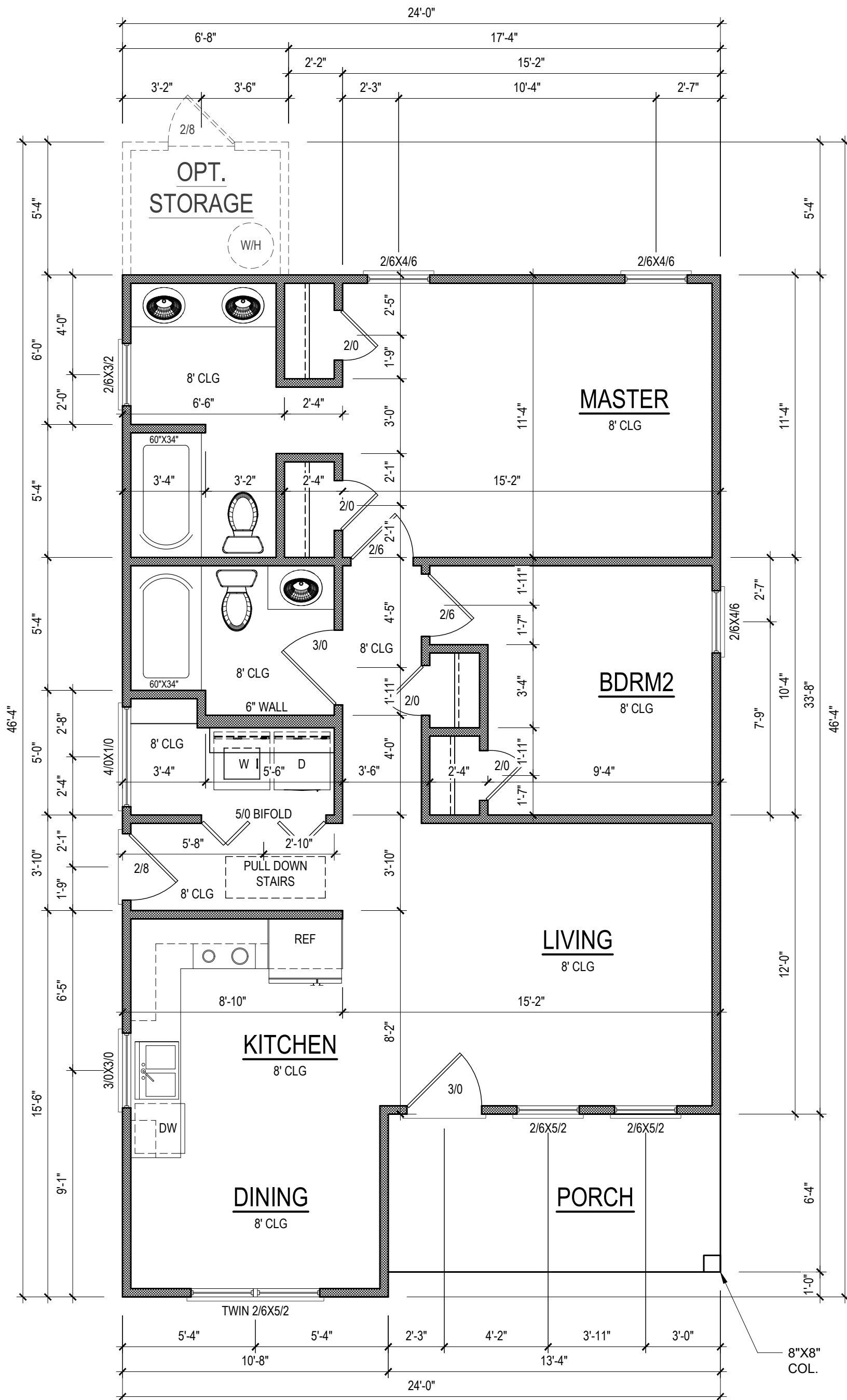
- NOTE: GLAZING IN THE FOLLOWING LOCATIONS SHALL BE TEMPERED
1. FIXED AND OPERABLE PANELS OF SWINGING, SLIDING, AND BI-FOLD DOORS
  2. INDIVIDUAL FIXED OR OPERABLE PANELS IN THE SAME PLANE AS AN ADJACENT DOOR WHERE THE BOTTOM EDGE IS LESS THAN 60" ABOVE THE FLOOR AND IS WITHIN 24" OF EITHER SIDE OF THE DOOR IN A CLOSED POSITION.
  3. FIXED OR OPERABLE PANEL THAT HAS AN EXPOSED AREA OF AN INDIVIDUAL PANE THAT IS LARGER THAN 9 SQ FT.
  4. FIXED OR OPERABLE PANEL WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR.
  5. FIXED OR OPERABLE PANEL WHERE THE TOP EDGE OF THE GLAZING IS MORE THAN 36" ABOVE THE FLOOR
  6. FIXED OR OPERABLE PANEL WHERE ONE OR MORE WALKING SURFACES ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING.
  7. GLAZING IN WALLS CONTAINING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS, AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60", MEASURED VERTICALLY, ABOVE ANY STANDING OR WALKING SURFACE.
  8. GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36" ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS, AND RAMPS
  9. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36" ABOVE THE LANDING AND WITHIN A 60" HORIZONTAL ARC LESS THAN 180° FROM THE BOTTOM TREAD NOSING.

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

NOTE: EMERGENCY AND ESCAPE RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENABLE AREA OF 4 SQUARE FEET. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 22 INCHES. THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES. EMEGENCY ESCAPE AND RESCUE OPENINGS MUST HAVE A MINIMUM TOTAL GLAZING AREA OF NOT LESS THAN 5 SQUARE FEET IN THE CASE OF A GROUND FLOOR LEVEL WINDOW AND NOT LESS THAN 5.7 SQUARE FEET IN THE CASE OF AN UPPER STORY WINDOW. MAXIMUM SILL HEIGHT - 44" A.F.F.

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

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## FIRST FLOOR PLAN

1/4" = 1'-0"

### HEATED SQUARE FOOTAGE

First Floor 887

TOTAL HEATED 887

### UNHTD SQUARE FOOTAGE

Front Porch 84

Optional Storage\* 36

TOTAL UNHEATED 120

TOTAL SQ FT 1007

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 #  
DRB2501-0134  
DATE  
04/02/2025  
DESIGNED BY  
MMB  
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DRB  
SCALE  
1/4" = 1'-0"

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PROJECT NAME  
THE  
LAWRENCE

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

CLIENT NAME  
Veneta Ford  
1300 Benson Rd  
Garner, NC 27529  
vford@vfgrealty.com  
919-795-9764

SHEET NAME  
1ST\_FLOOR  
SHEET #

5

of 6

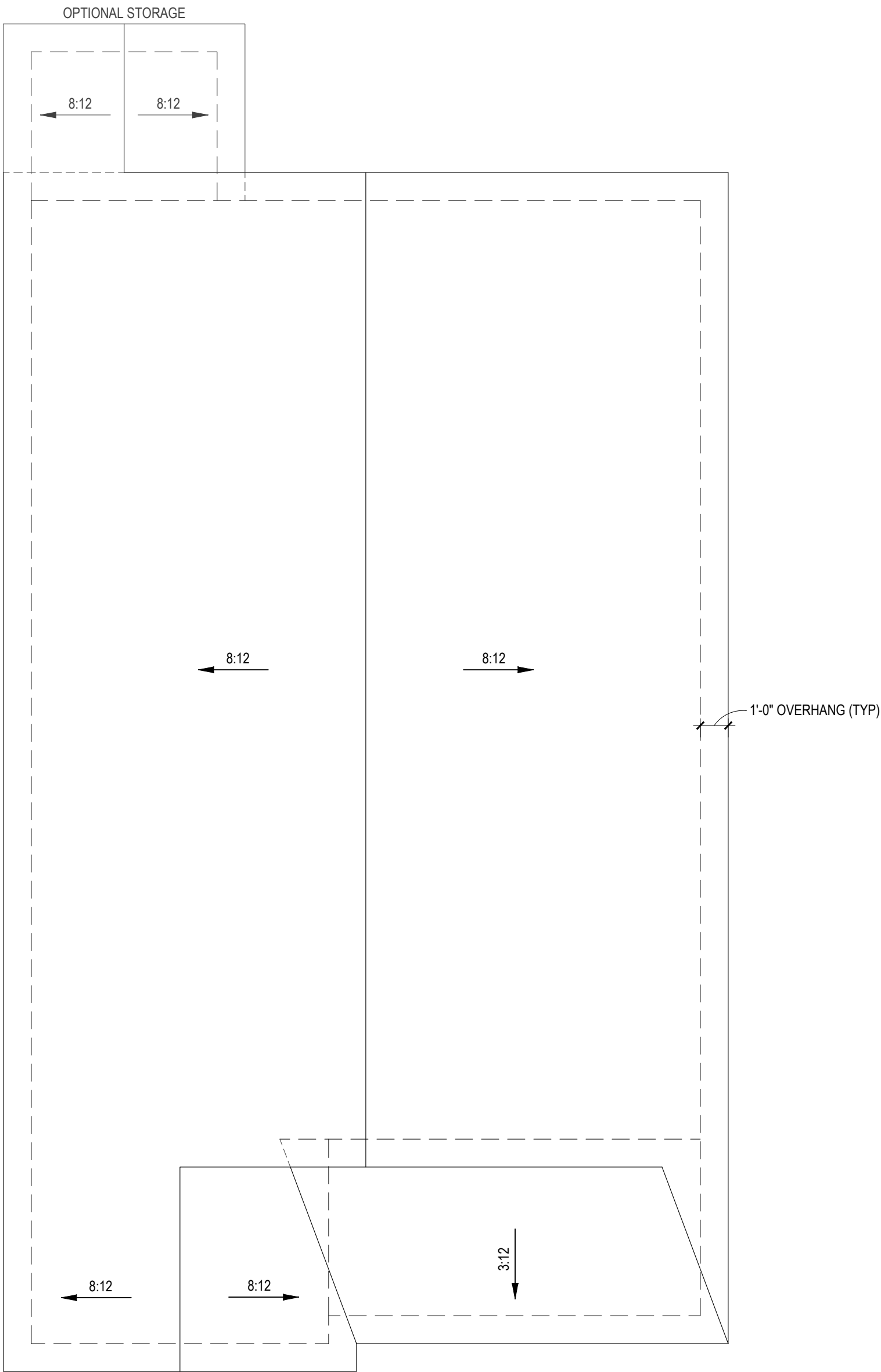


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NOTE: ANY ROOF PITCH 4:12 OR LESS SHALL BE PROPERLY WATERPROOFED PER BLDG. CODE

NOTE: OVERHANG DIMENSIONS ARE FROM FRAMING

NOTE: SEE STRUCTURAL PLANS FOR ATTIC VENTILATION CALCULATIONS



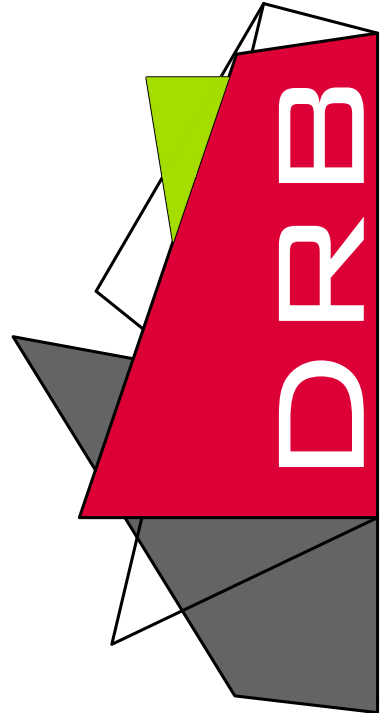
## ROOF PLAN

1/4" = 1'-0"

PROJECT #  
DRB2501-0134  
DATE  
04/02/2025  
DESIGNED BY  
MMB  
CHECKED BY  
DRB  
SCALE  
1/4" = 1'-0"

PROJECT NAME  
THE  
LAWRENCE

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250 Shipwash Dr Suite 105 Garner, NC 27529

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Garner, NC 27529  
vford@vfgrealty.com  
919-795-9764

SHEET NAME  
ROOF  
SHEET #  
6  
of 6

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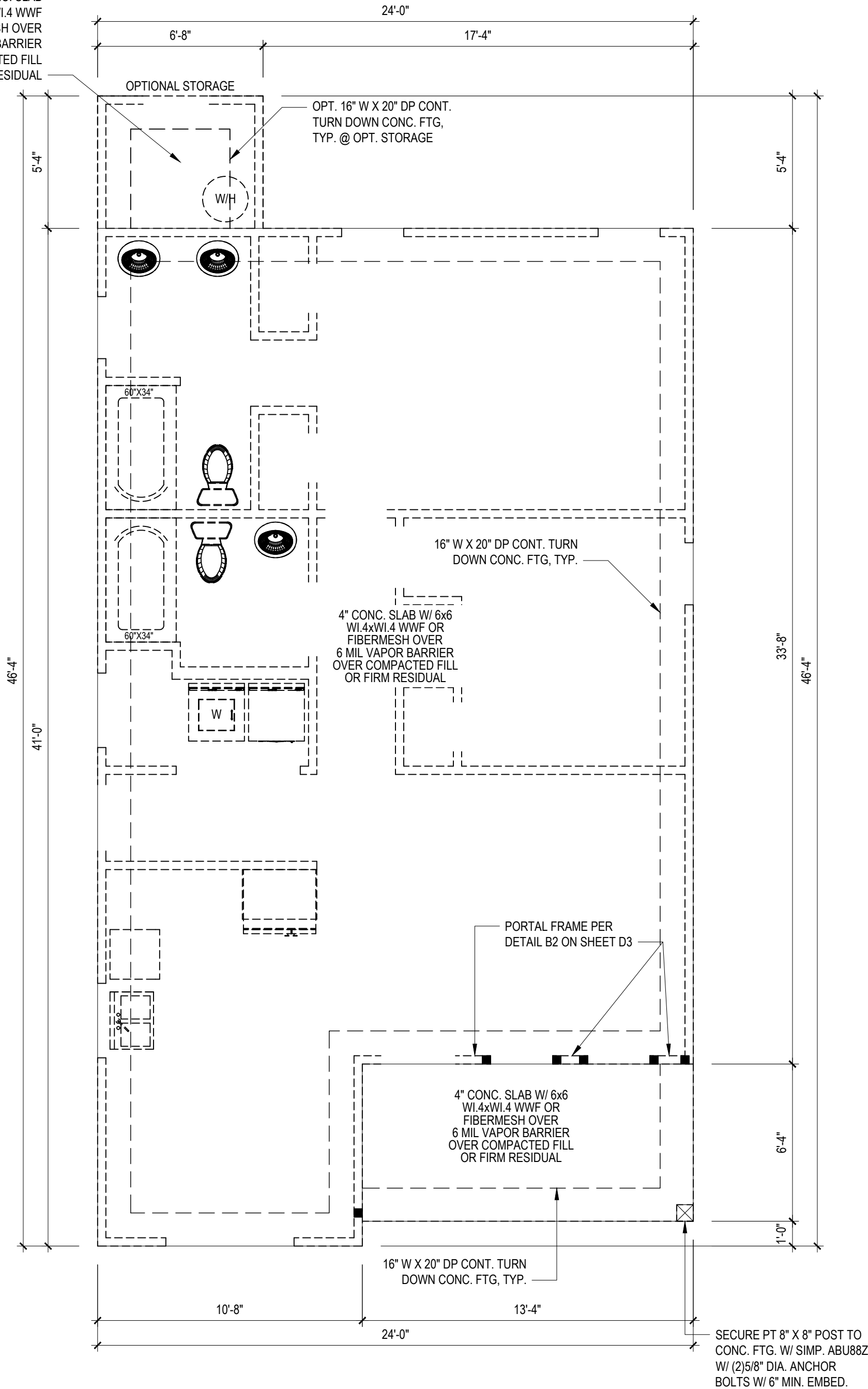
DESIGN LOADS

	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 130 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 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'-0". 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  
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" ANCHOR BOLTS SPACED AT MAXIMUM OF 4'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLT SHALL EXTEND 15" INTO MASONRY AND 7" INTO CONCRETE.
- 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 IRC.
- 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.

OPT. 4" CONC. SLAB  
W/ 6x6 W1.4xW1.4 WWF  
OR FIBERMESH OVER  
6 MIL VAPOR BARRIER  
OVER COMPACTED FILL  
OR FIRM RESIDUAL

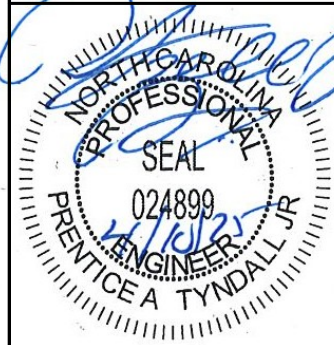


FOUNDATION PLAN

1/4" = 1'-0"

MONOSLAB

\* 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.  
\* 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.



**TYNDALL**  
ENGINEERING & DESIGN, P.A.

1919 775-1800 • F 919-775-9668  
250 Shipwash Drive • Garner • North Carolina • 27529  
www.tyndallengineering.com

**VENETA FORD**

1300 BENSON RD.  
GARNER, NC 27529

FDN. PLAN  
MONO SLAB

Project #:	DRB2501-0134
Date:	04/10/2025
Engineered By:	JA
DWG. Checked By:	PTII
Scale:	SEE PLAN

REVISIONS		
No.	Date:	Remarks
1		
2		
3		
4		

Sheet Number

S1

1 of 6





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DESIGN LOADS

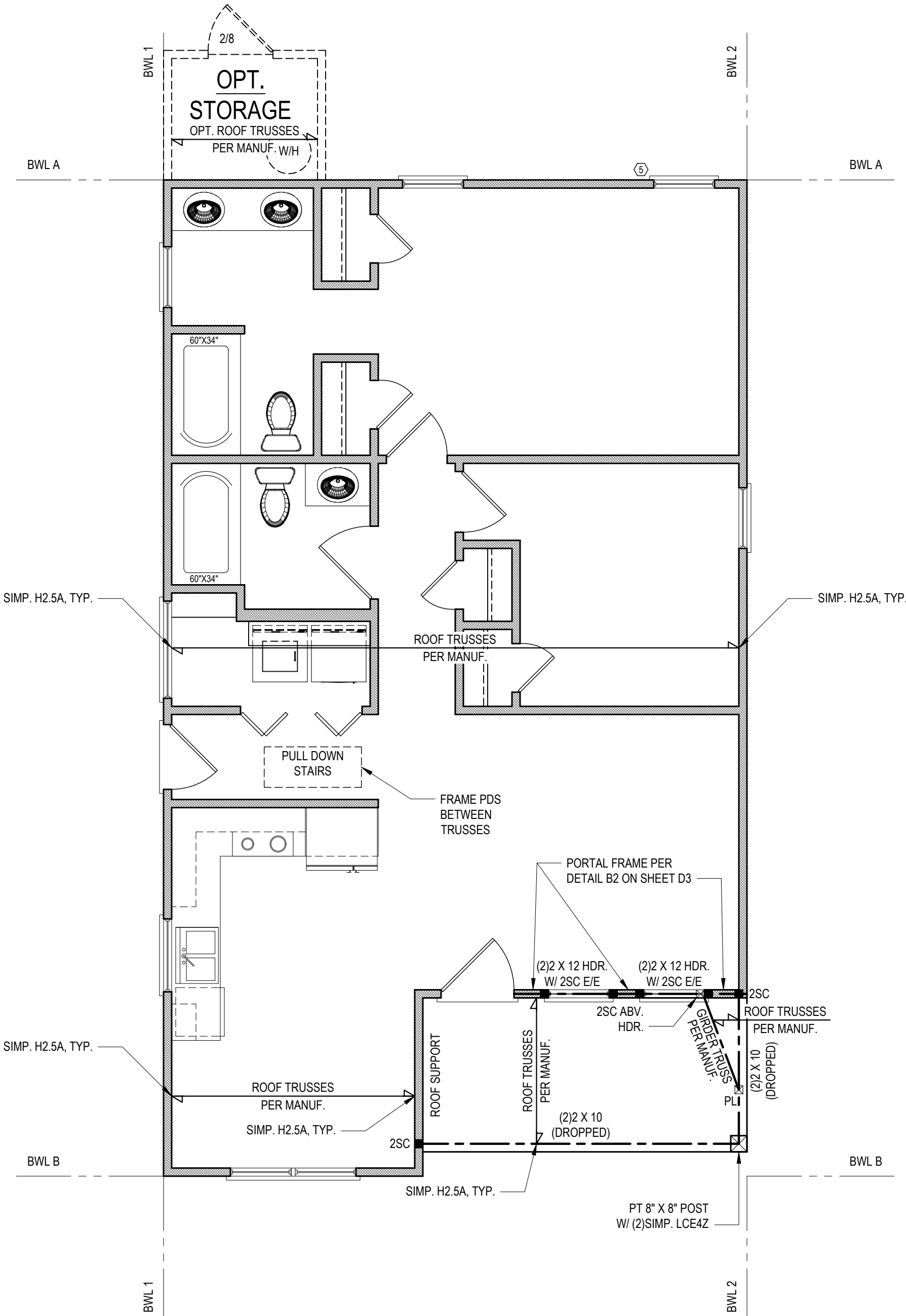
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EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 130 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

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 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'-0". 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  
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" ANCHOR BOLTS SPACED AT MAXIMUM OF 4'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLT SHALL EXTEND 15" INTO MASONRY AND 7" INTO CONCRETE.
- 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 IRC.
- 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 130 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/ 8d COMMON NAILS SPACED AT 4" O.C. AT PANEL EDGES AND 6" 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 7/16". SHEATHING SHALL BE SECURED WITH MINIMUM 8d COMMON OR GALVANIZED BOX NAILS (2-1/2" LONG X 0.131" DIA.) SPACED AT 4" O.C. AT PANEL EDGES AND SPACED AT 6" 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



FIRST FLOOR PLAN

1/4" = 1'-0"

BRACING PANEL LENGTHS REQUIRED:  
BWL A = 7.14 FT  
BWL B = 7.14 FT  
BWL 1 = 4.19 FT  
BWL 2 = 4.19 FT

BRACING PANEL LENGTHS PROVIDED:  
BWL A = 17.67 FT CS-WSP  
BWL B = 12.38 FT CS-WSP / PF  
BWL 1 = 27.75 FT CS-WSP  
BWL 2 = 31.17 FT CS-WSP

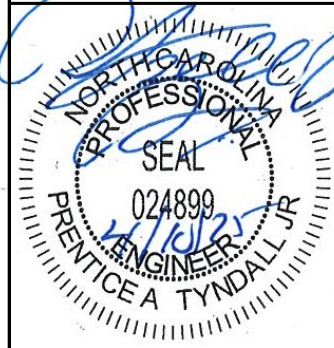
KING STUD SCHEDULE

HEADER SPAN (FT)	MIN. # OF FULL HEIGHT STUDS (KING) E.E. OF OPENING PER WALL DEPTH	
	2 X 4 STUD WALL	2 X 6 STUD WALL
UP TO 3'-0"	2	1
3'-1" TO 6'-0"	3	2
6'-1" TO 9'-0"	4	3
9'-1" TO 12'-0"	5	4
12'-1" TO 15'-0"	6	5
15'-1" TO 18'-0"	7	5

NOTES:

- 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 130 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

\* 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.  
\* 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.



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Client:  
VENETA FORD

Date:  
1300 BENSON RD.  
GARNER, NC 27529

1ST FLR. HDR.  
1ST FLR. CLG.

Project #:  
DRB2501-0134

Date:  
04/10/2025

Engineered By:  
JA

DWG. Checked By:  
PTII

Scale:  
SEE PLAN

REVISIONS

No.	Date:	Remarks
1		
2		
3		
4		

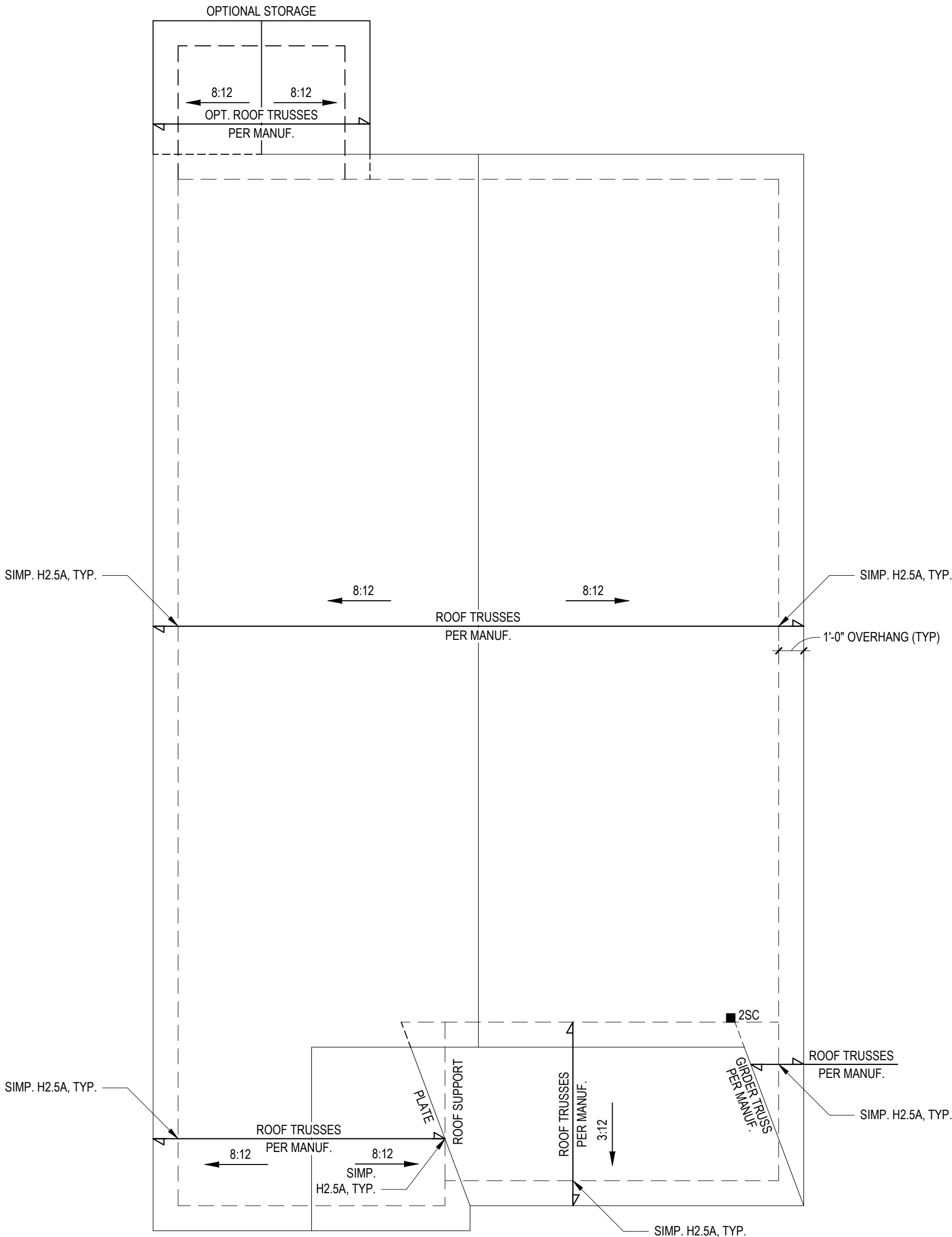
Sheet Number

S2

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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 130 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			



887 SQ. FT. OF ATTIC / 300 = 2.96 SQ. FT. INLETS/OUTLETS REQUIRED

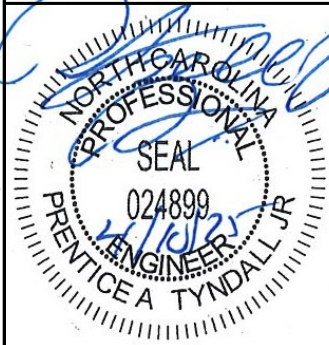
- 1) CALCULATION BASED ON VENTILATORS USED AT LEAST 3'-0" ABOVE THE COMICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED BY EAVE VENTS.
- 2) CATHEDRAL CEILINGS SHALL HAVE A 1" MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

NO SCALE  ATTIC VENTILATION CALCULATION

ROOF PLAN

1/4" = 1'-0"

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250 Shipwash Drive • Garner • North Carolina • 27529  
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Client:

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Date:

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GARNER, NC 27529

## ROOF PLAN





Project #:  
DRB2501-0134

Date:  
04/10/2025

Engineered By:  
JA

DWG. Checked By:  
PTIII

Scale:  
SEE PLAN

REVISIONS		
No.	Date:	Remarks
		
		
		
		

Sheet Number

# S3

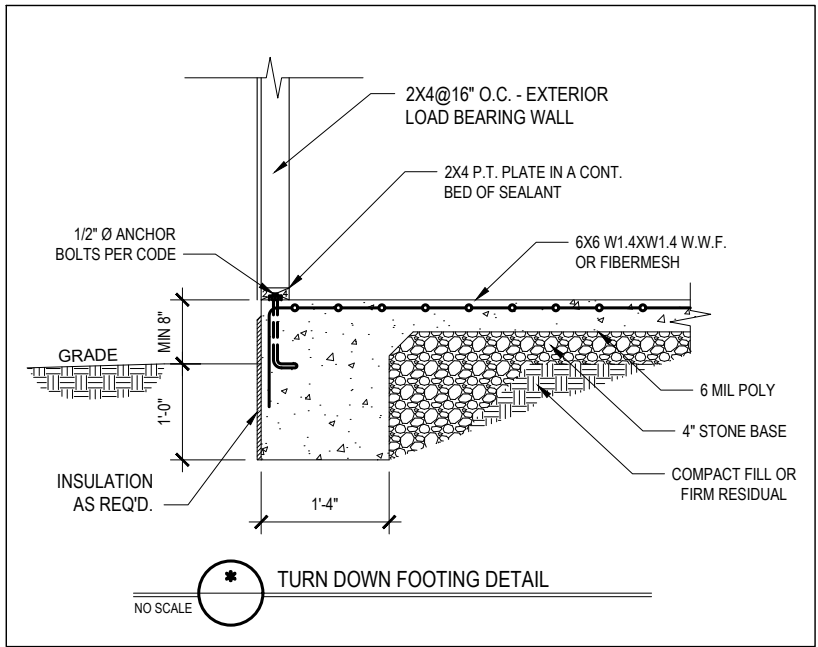
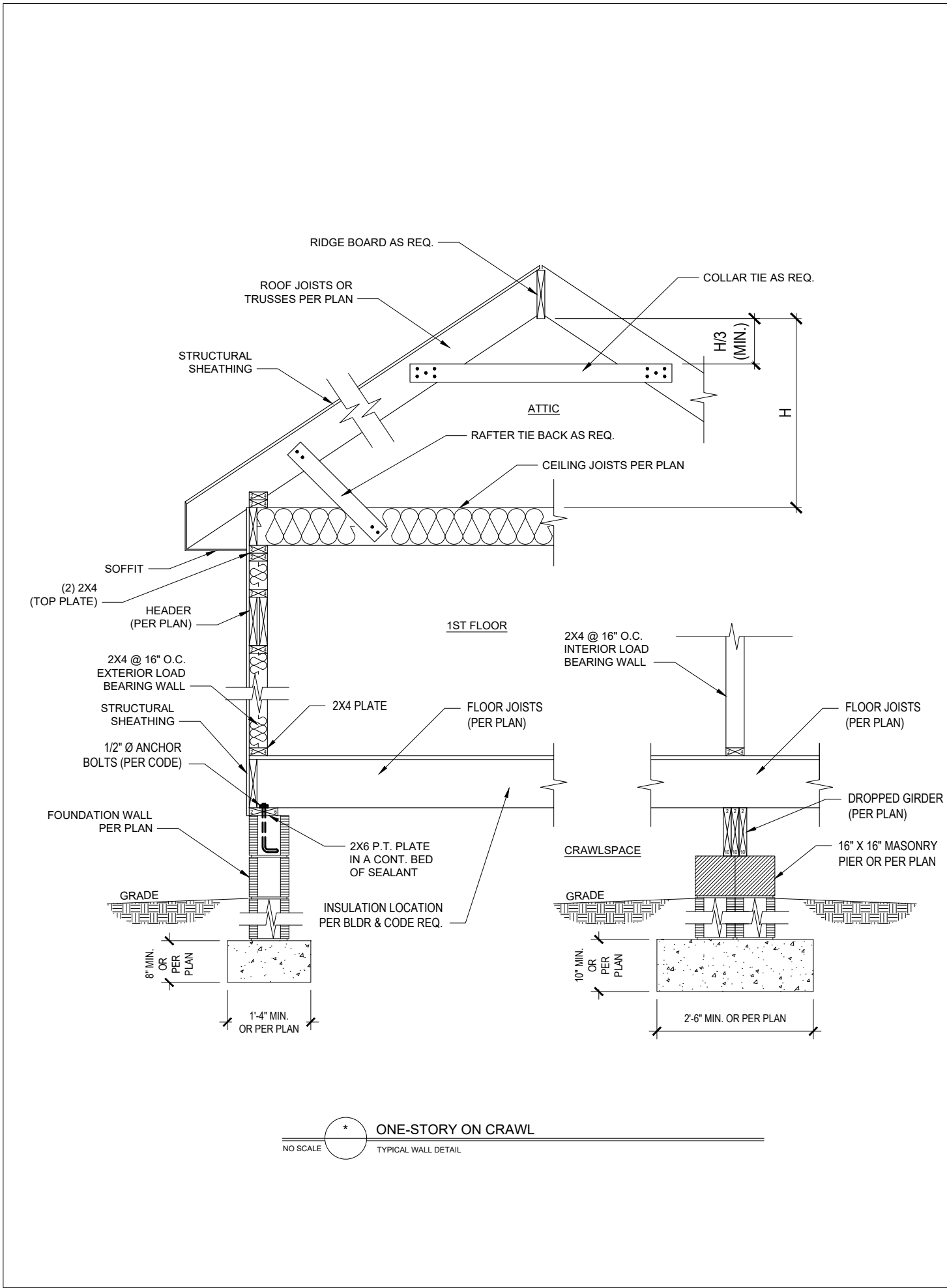
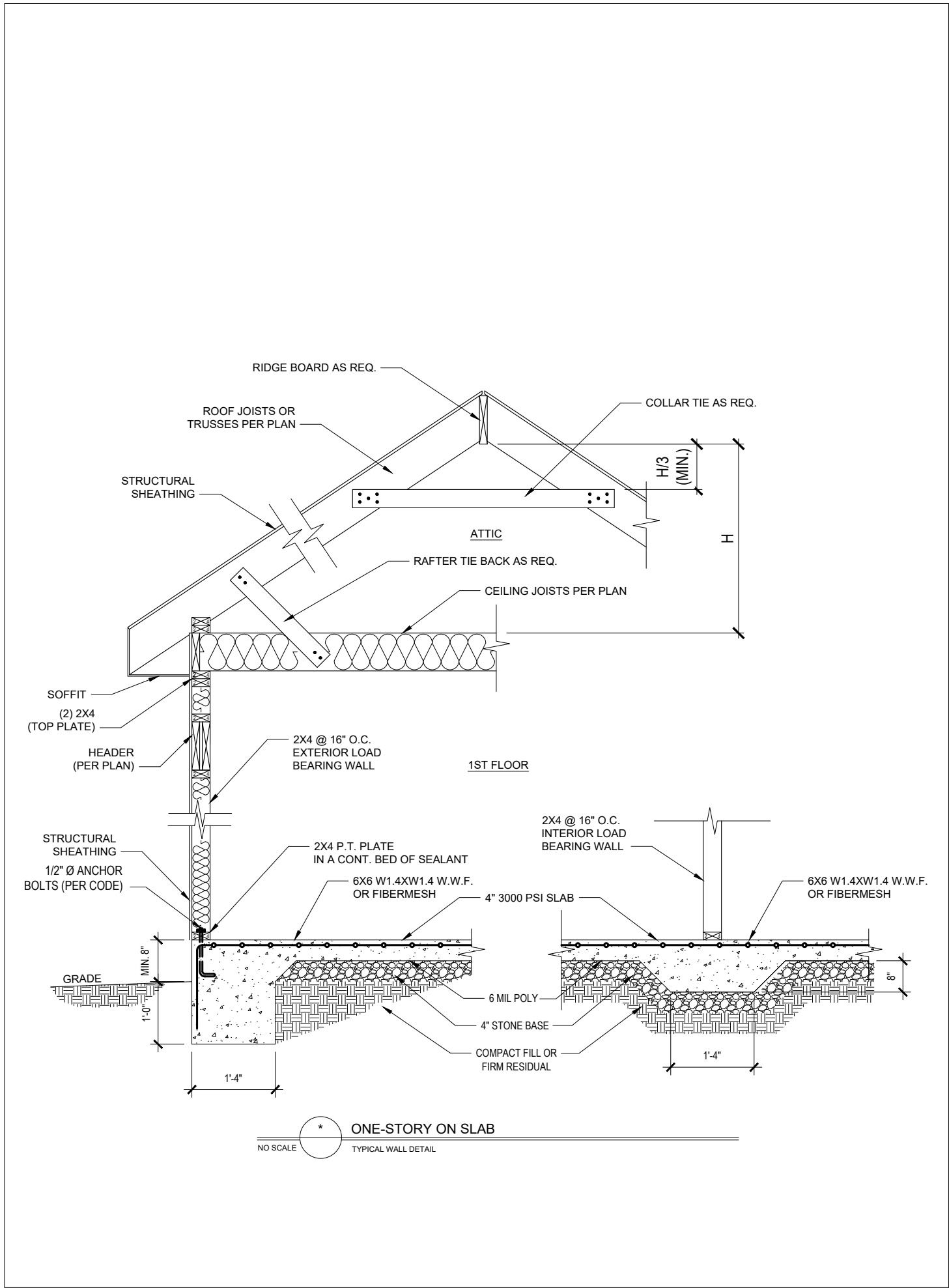
3 of 6



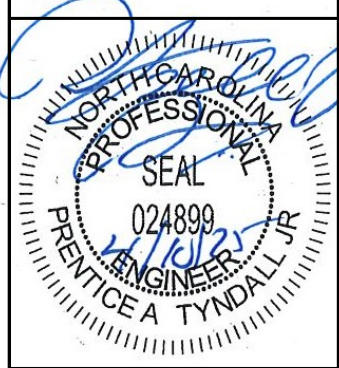





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Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability.  
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www.tyndallengineering.com

Client:  
**VENETA FORD**

Date:  
**1300 BENSON RD.  
GARNER, NC 27529**

**STANDARD  
DETAILS**

Project #:  
**DRB2501-0134**

Date:  
**04/10/2025**

Engineered By:  
**JA**

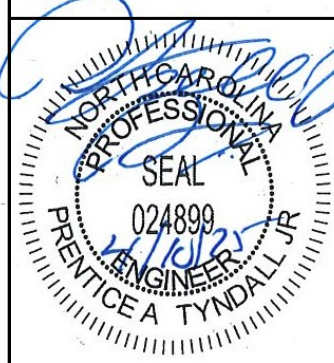
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**PTII**

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2		
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Sheet Number  
**D2**  
5 of 6

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

1300 BENSON RD.  
GARNER, NC 27529

# SHEATHING DETAILS

Project #: DRB2501-0134

Date: 04/10/2025

Engineered By: JA

DWG. Checked By: PTII

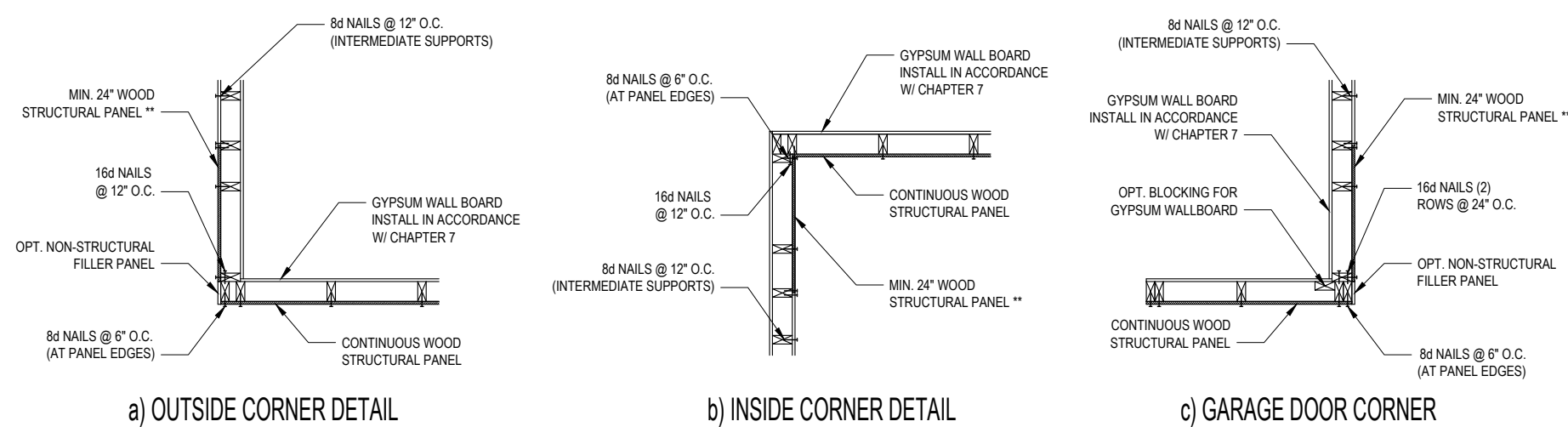
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D3

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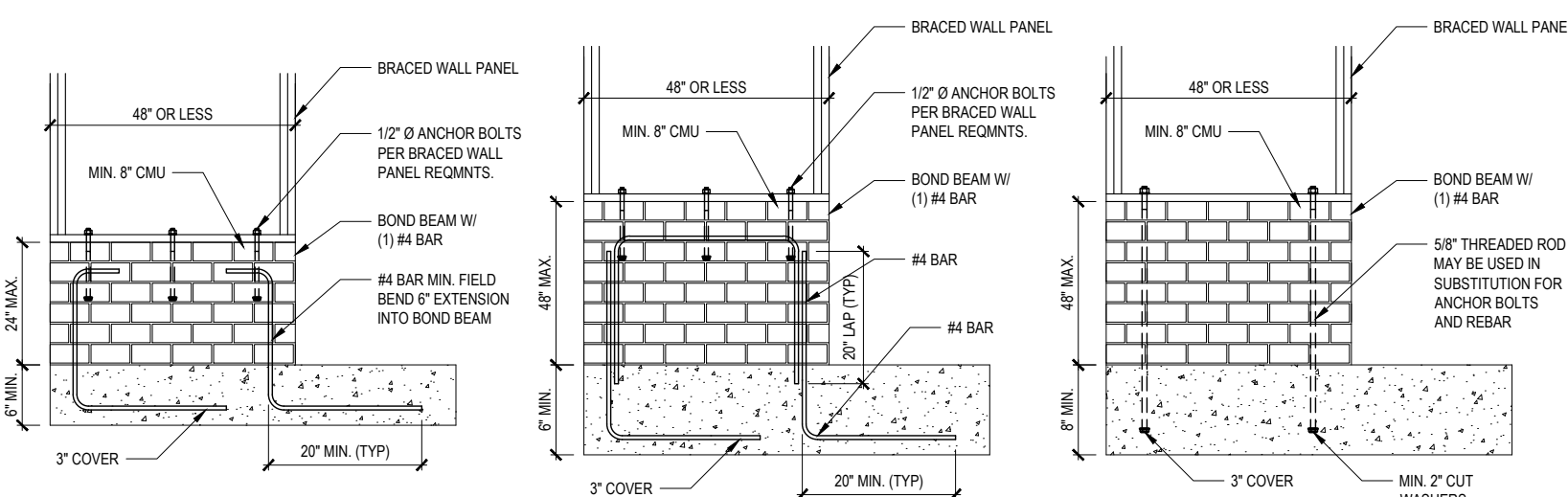
B1: TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING  
NO SCALE

### STRUCTURAL SHEATHING NOTES

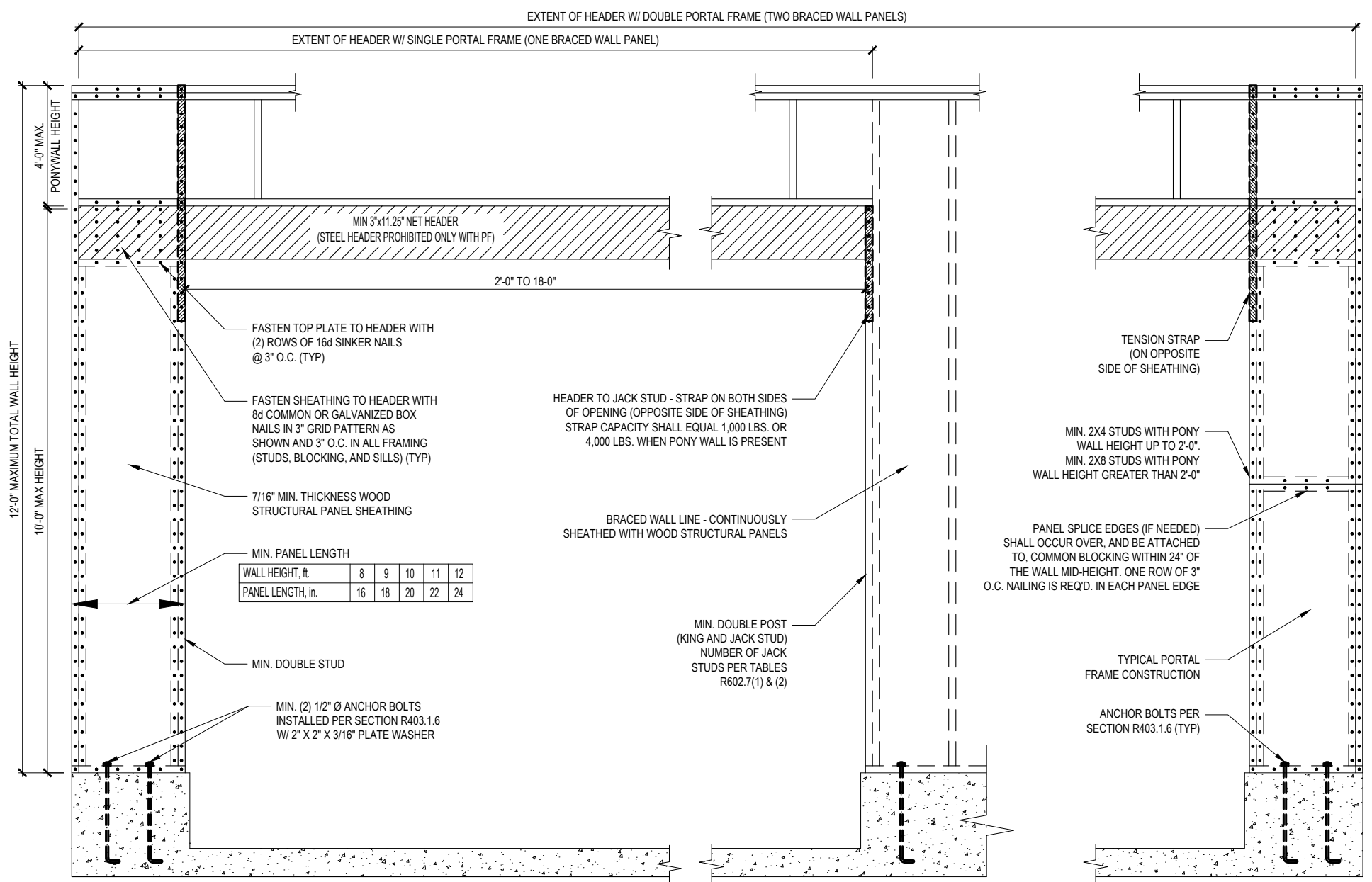
- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NRC.
- BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
- REFERENCE FIGURE R602.10.4.3 OF THE 2018 NRC.
- 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).
- 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE W/ 6d COMMON NAILS SPACED AT 4" O.C. AT PANEL EDGES AND 6" 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 7/16" SHEATHING SHALL BE SECURED WITH MINIMUM 8d COMMON OR GALVANIZED BOX NAILS @ 12" LONG & 6" SPACED AT 4" O.C. AT PANEL EDGES AND SPACED AT 6" 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 AND 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 MINIMUM 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.

REQUIRED BRACED WALL PANEL CONNECTIONS				
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			@ PANEL EDGES	@ INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	7/16"	8d COMMON NAILS @ 4" O.C.	8d COMMON NAILS @ 6" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL** @ 7" O.C.	5d COOLER NAIL** @ 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.

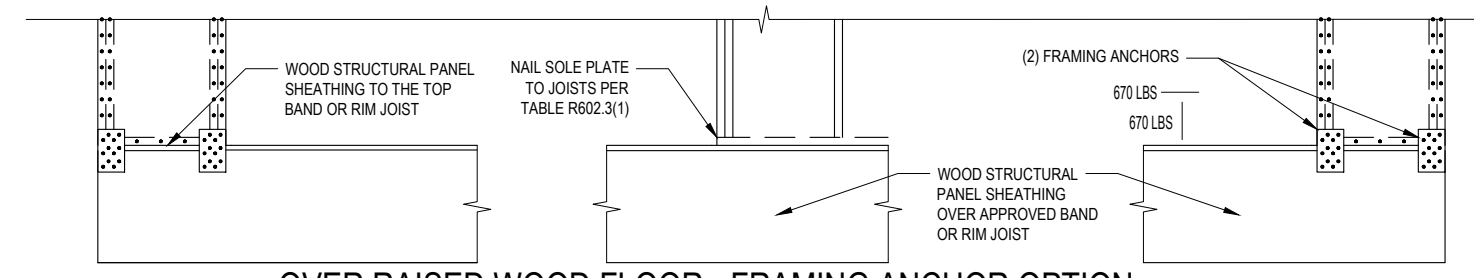
\*\*OR EQUIVALENT PER TABLE R702.3.5  
B3: BRACE WALL PANEL CONNECTIONS  
NO SCALE



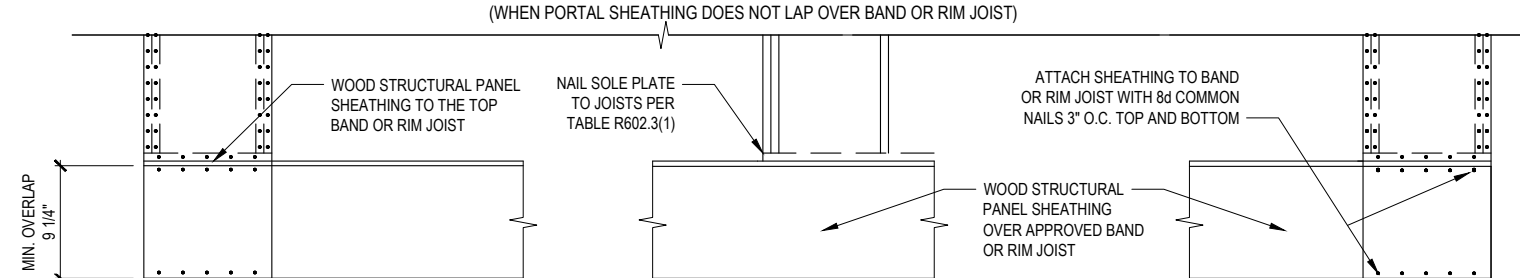
B4: MASONRY STEM WALL SUPPORTING BRACED WALL PANELS  
FIGURE R602.10.4.3 OF THE 2018 NRC  
NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS



OVER CONCRETE OR MASONRY BLOCK FOUNDATION



OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION  
(WHEN PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)



OVER RAISED WOOD FLOOR - OVERLAP OPTION  
(WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM JOIST)

B2: METHOD PF: PORTAL FRAME CONSTRUCTION  
FIGURE R602.10.1