

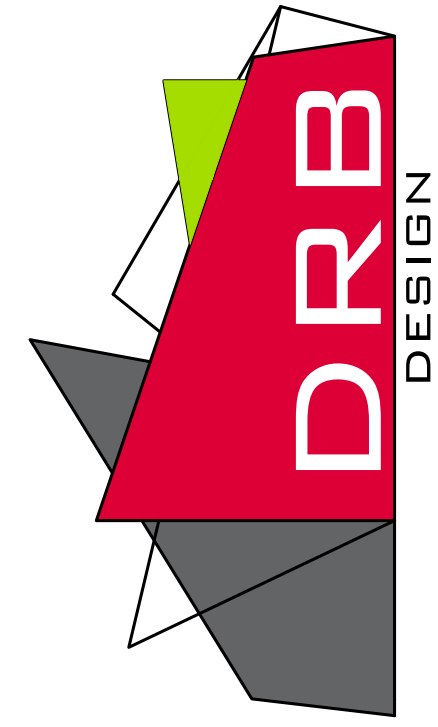
# ROBINSON RESIDENCE

PROJECT #  
DRB2201-0015  
DATE  
03/21/2022  
DESIGNED BY  
DRB  
CHECKED BY  
MMB  
SCALE  
1/4" = 1'-0"

www.  
drbhomdesign  
.com

PROJECT NAME  
ROBINSON  
RESIDENCE

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

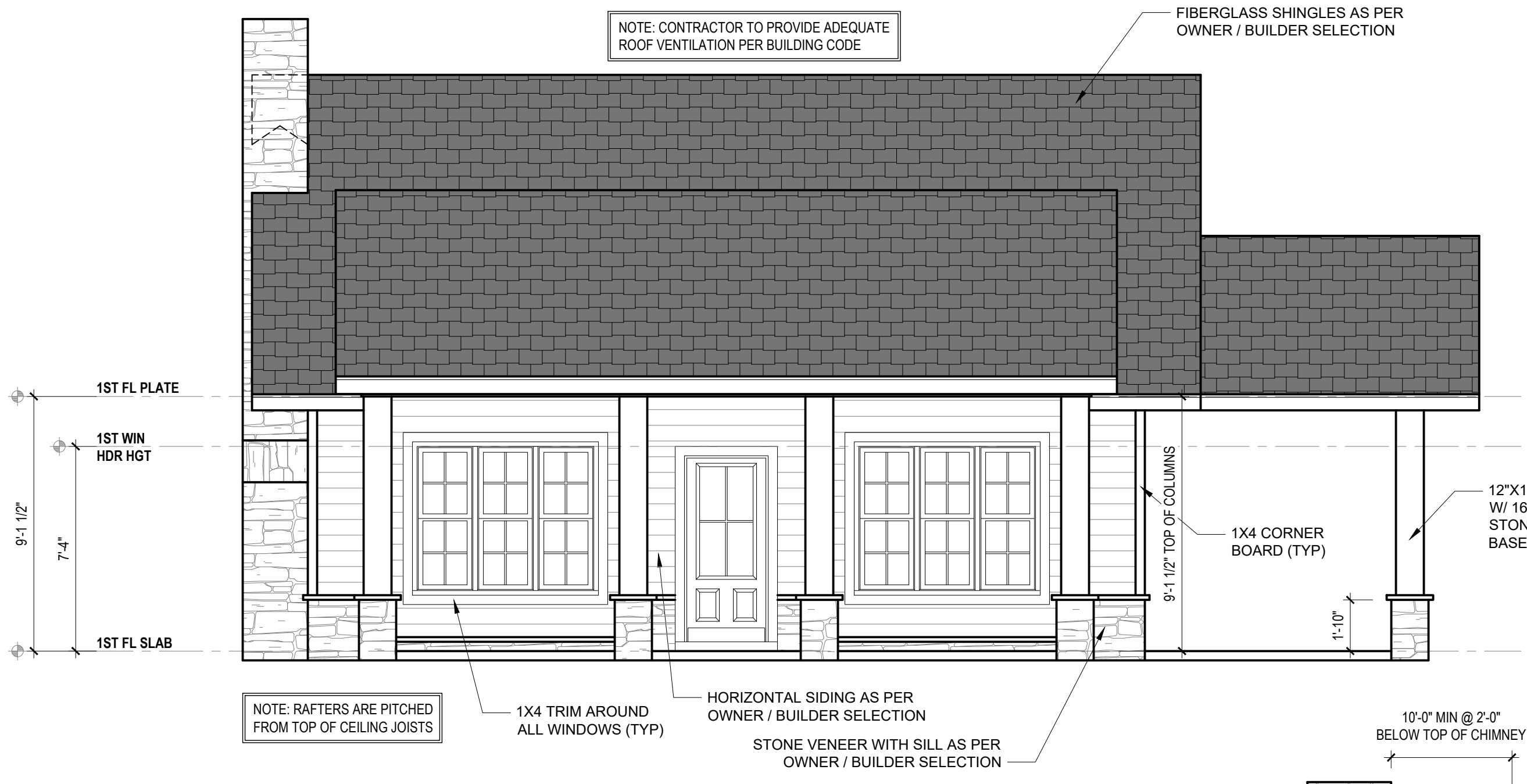


CLIENT NAME  
Smith Woodworks, Inc.  
P.O. Box 365  
Coats, NC 27521  
910-890-2923  
scbsmith@yahoo.com

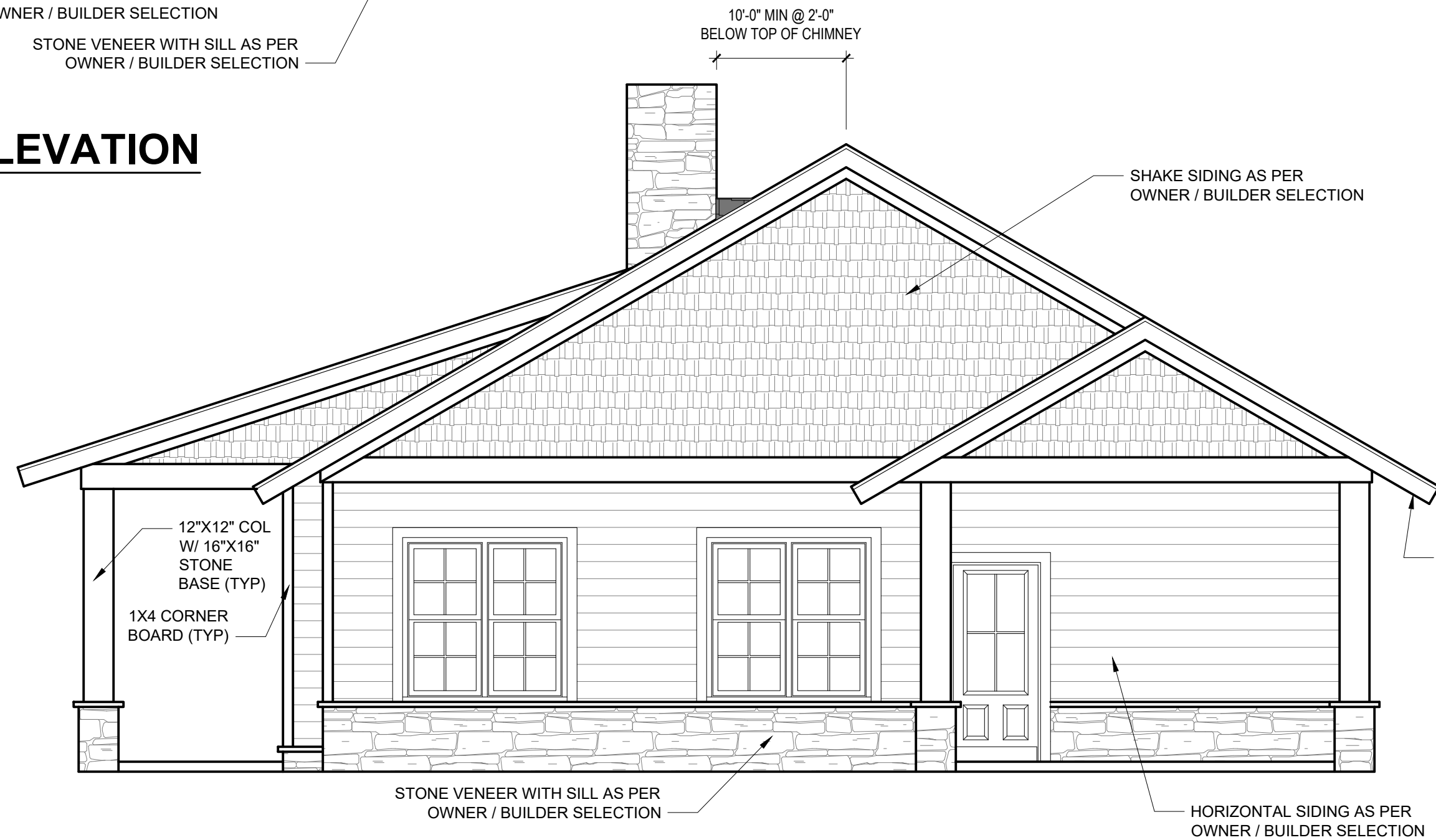
SHEET NAME  
ELEVATIONS  
SHEET #

A1  
of 5

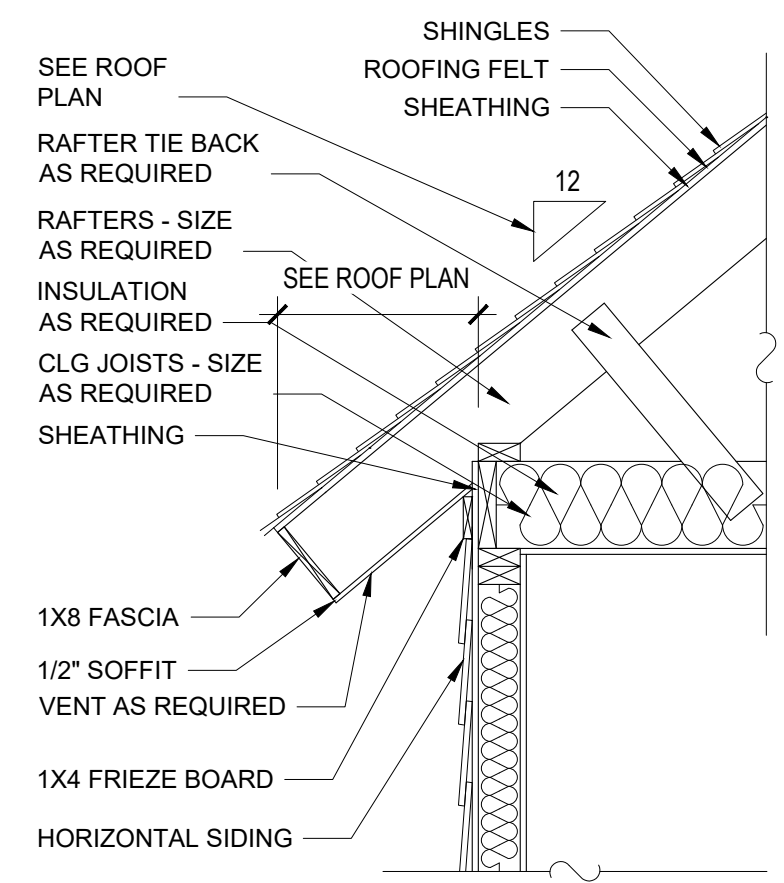
1. DRB DESIGN assumes no liability for any home constructed from this plan.
2. All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code", in addition to all local codes and regulations.
3. Should these plans require structural calculations for 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.
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. 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.



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



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



**A-3 CORNICE DETAIL**  
NTS

# ROBINSON RESIDENCE

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03/21/2022  
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1/4" = 1'-0"

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drbdesign  
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PROJECT NAME  
ROBINSON  
RESIDENCE

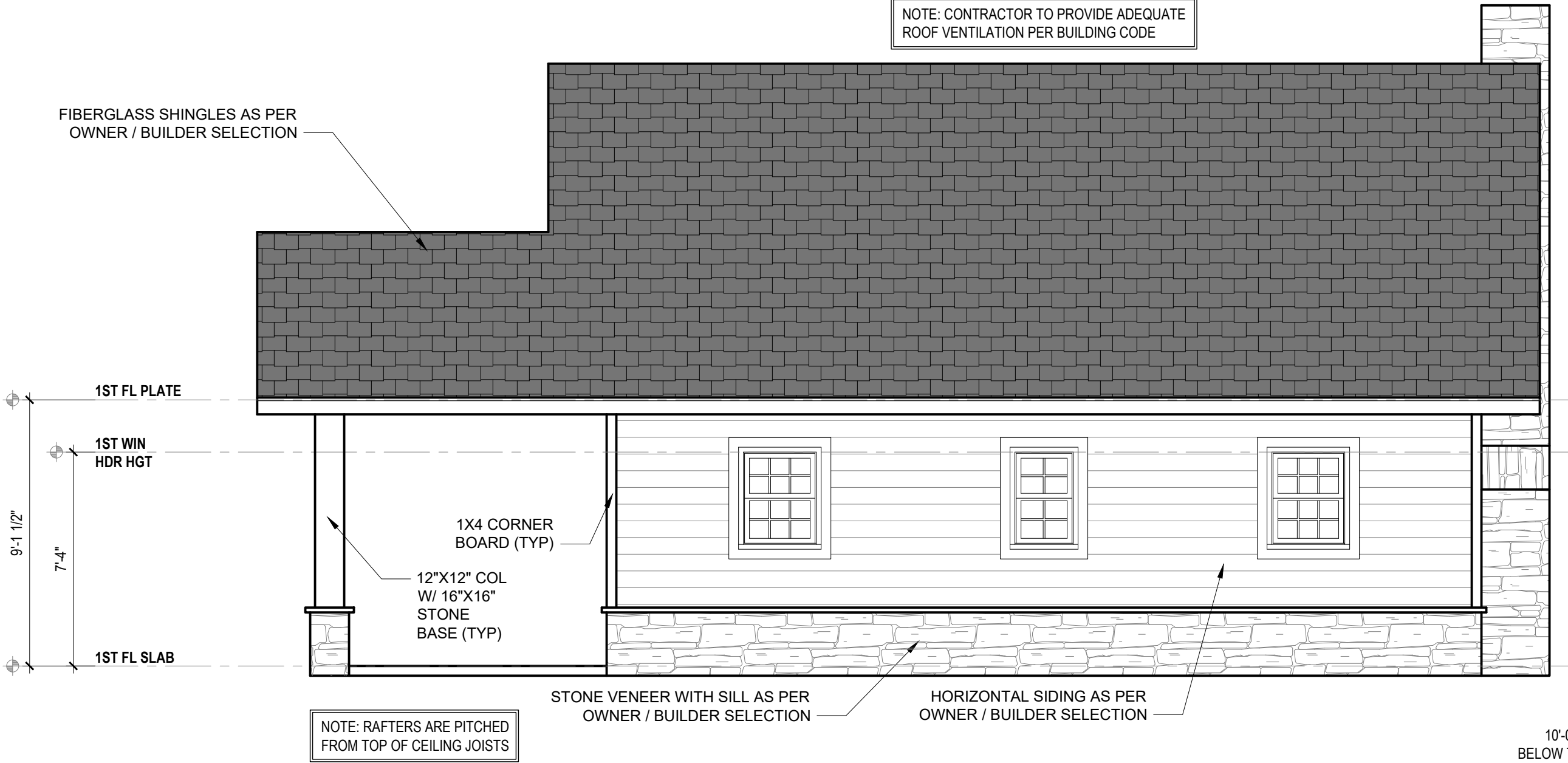
drbdesign@drbdesign.com 919.631.5979  
250 Shipwash Dr Suite 105 Garner, NC 27529

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SHEET NAME  
ELEVATIONS  
SHEET #

A2 of 5

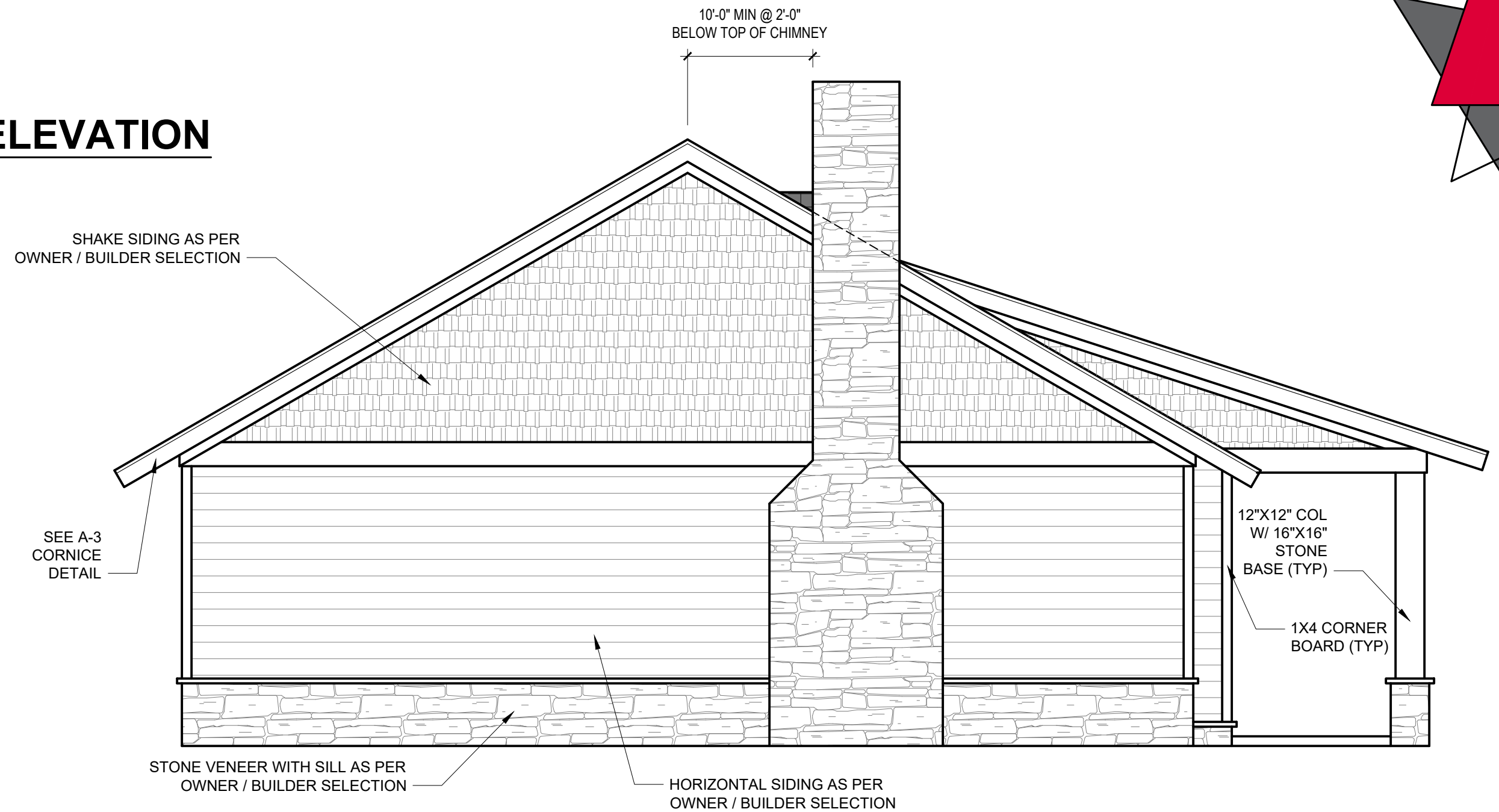
NOTE: CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION PER BUILDING CODE



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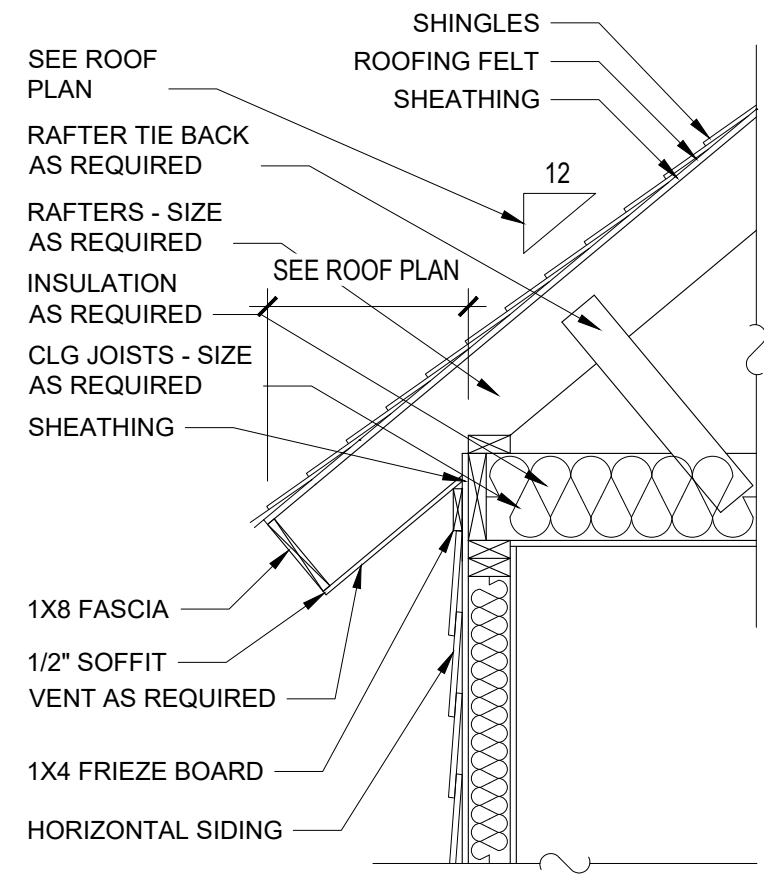
## REAR ELEVATION

1/4" = 1'-0"



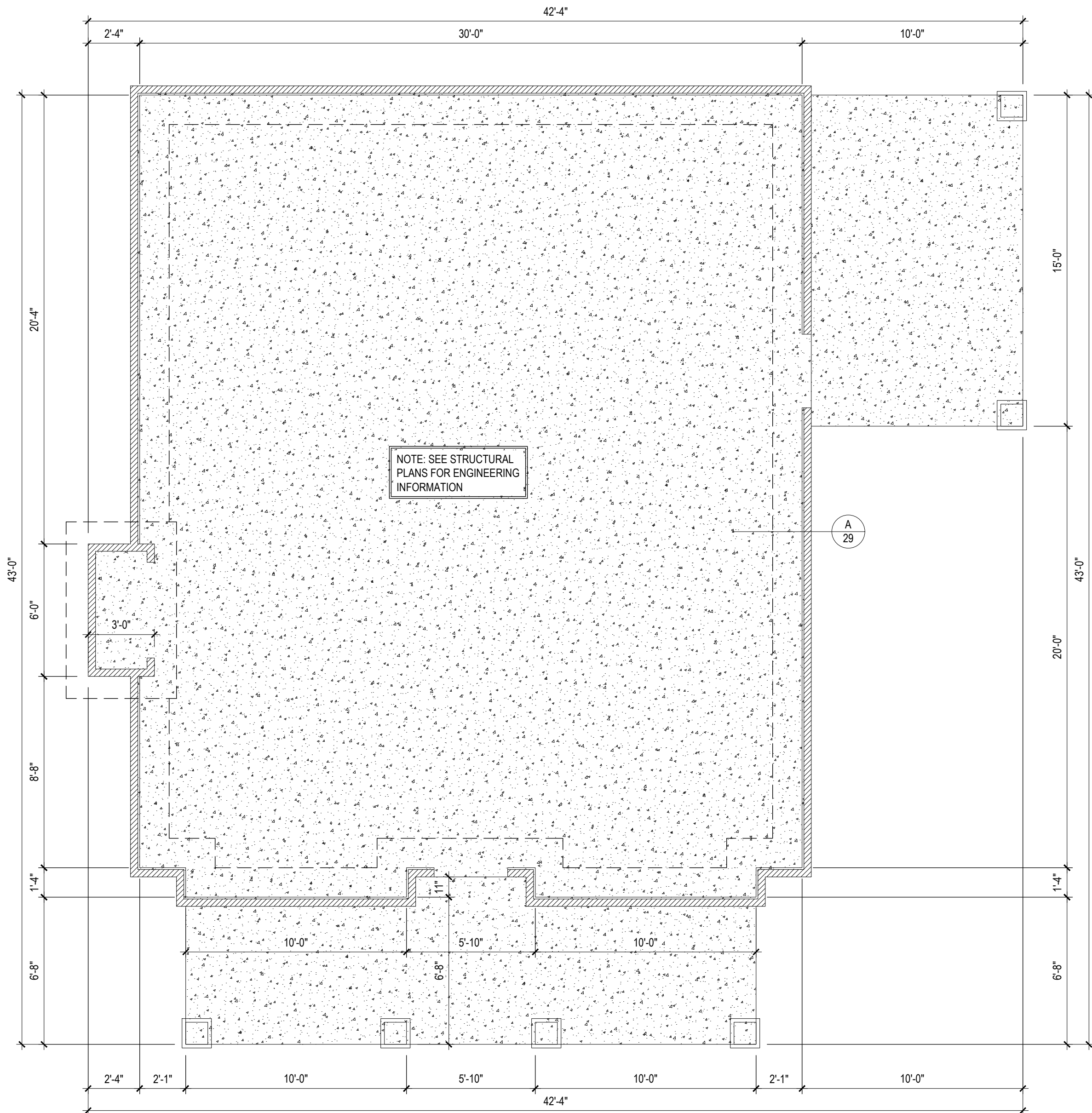
## LEFT ELEVATION

1/4" = 1'-0"



## A-3 CORNICE DETAIL

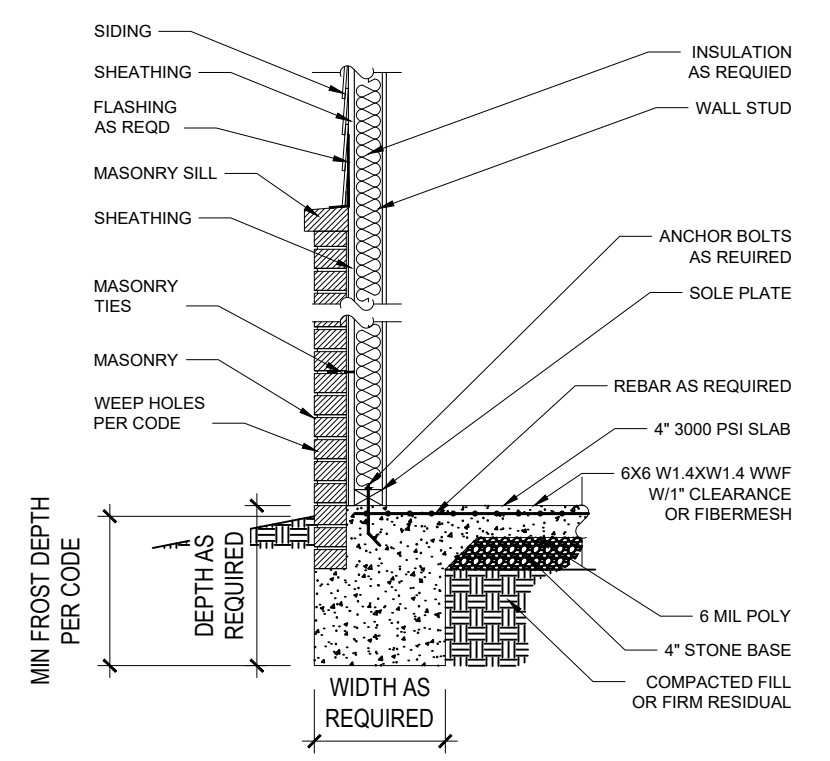
NTS



NOTE: SEE STRUCTURAL PLANS FOR ENGINEERING INFORMATION

A  
29

**FOUNDATION PLAN**  
1/4" = 1'-0" MONOLITHIC SLAB



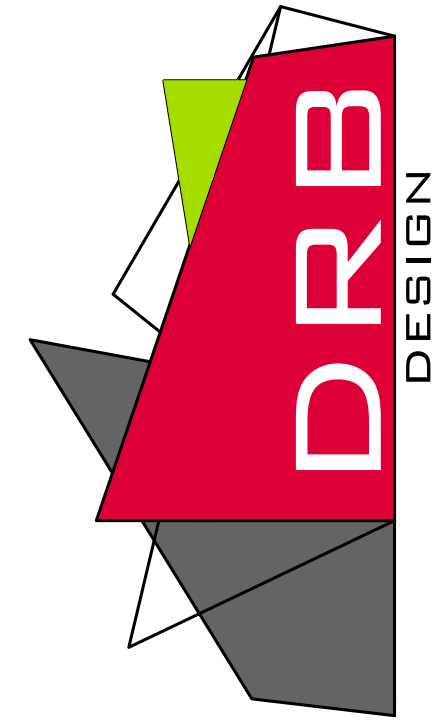
**A-29 MASONRY SILL DETAIL**  
NTS

1. DRB DESIGN assumes no liability for any home constructed from this plan.
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1/4" = 1'-0"

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PROJECT NAME  
ROBINSON  
RESIDENCE

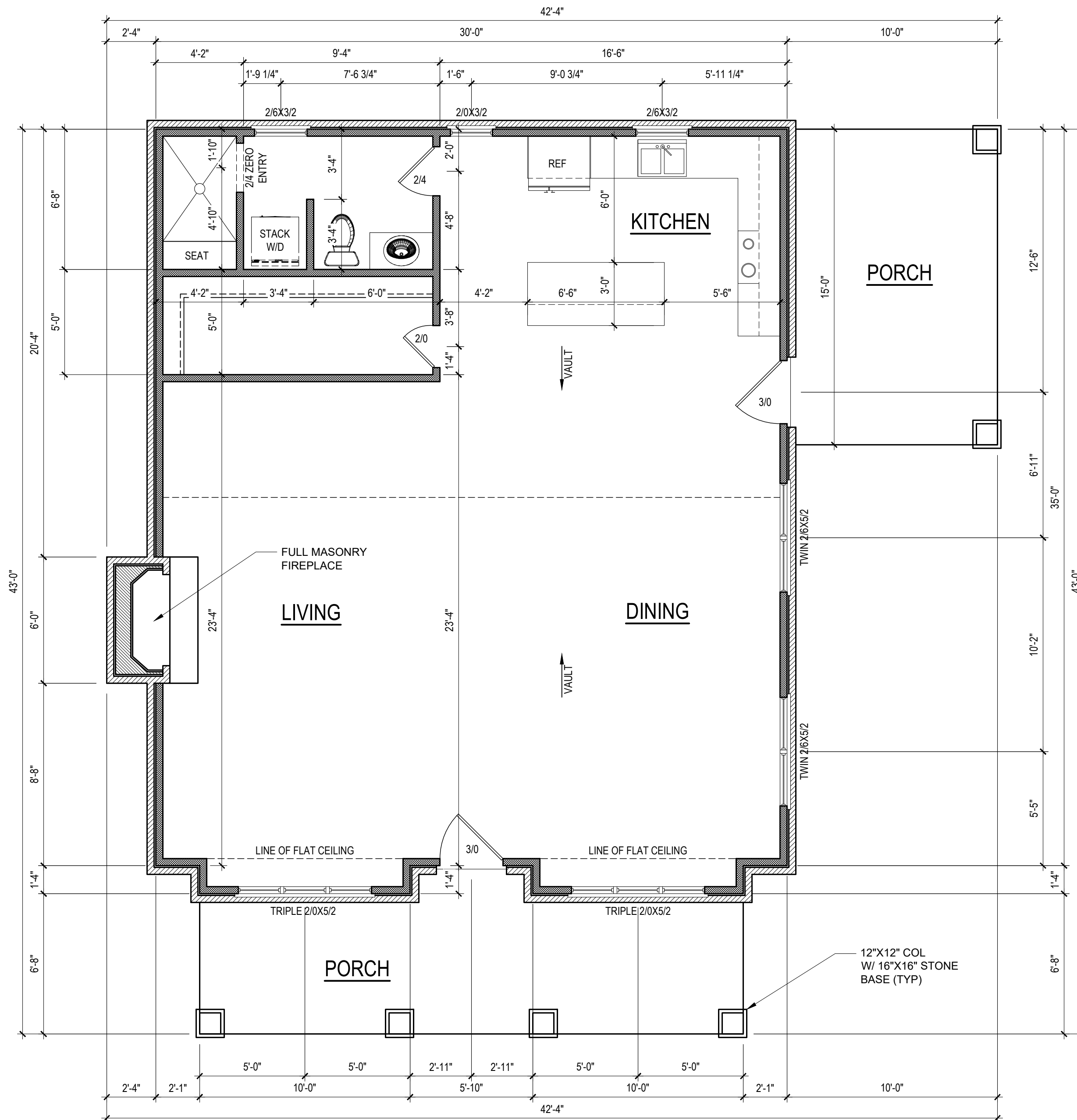


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910-890-2923  
scbsmith@yahoo.com

SHEET NAME  
FOUNDATION  
SHEET #

A3 of 5



HEATED SQUARE FOOTAGE	
First Floor	1077
<b>TOTAL HEATED</b>	<b>1077</b>
UNHTD SQUARE FOOTAGE	
Front Porch	180
Side Porch	150
<b>TOTAL UNHEATED</b>	<b>330</b>
<b>TOTAL SQ FT</b>	<b>1407</b>

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

NOTE: ALL EXTERIOR WALLS ARE NOMINAL 4" UNO

NOTE: ALL INTERIOR WALLS ARE NOMINAL 4" UNO

NOTE: ALL DIMENSIONS ARE FRAME TO FRAME

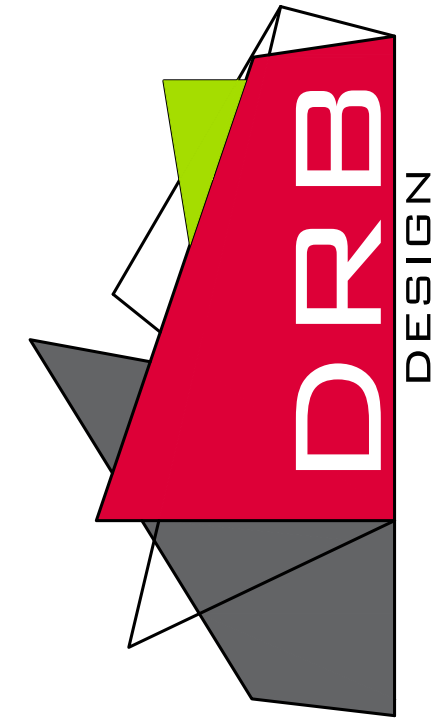
## FIRST FLOOR PLAN

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

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SCALE  
1/4" = 1'-0"

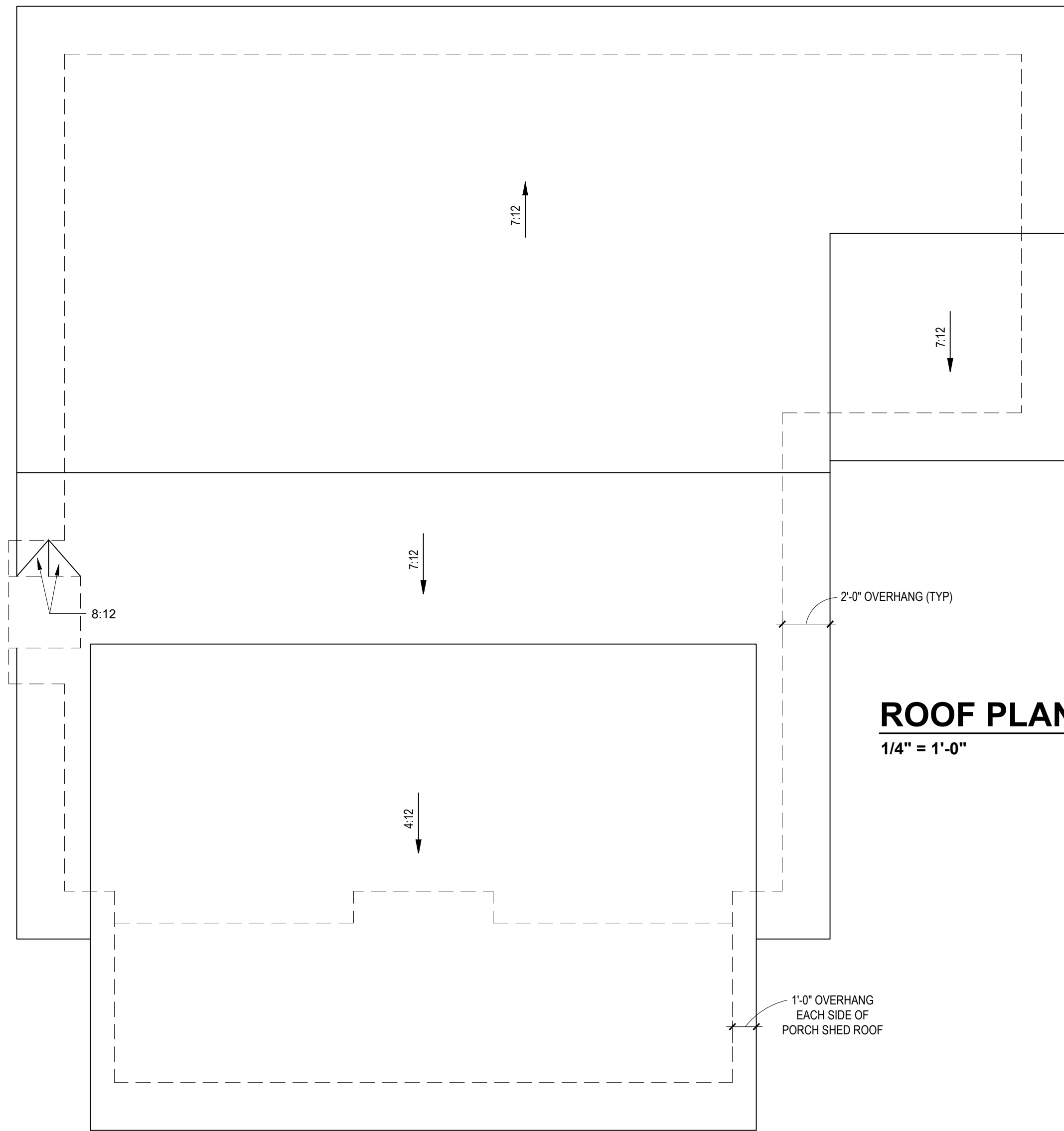
PROJECT NAME  
ROBINSON  
RESIDENCE  
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drbdesign@drbhomdesign.com 919.631.5979  
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910-890-2923  
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SHEET NAME  
1ST FLOOR  
SHEET #



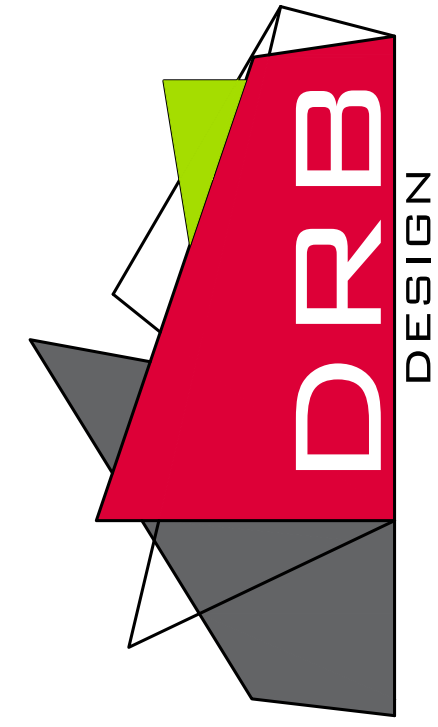
**ROOF PLAN**  
1/4" = 1'-0"

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PROJECT #  
DRB2201-0015  
DATE  
03/21/2022  
DESIGNED BY  
DRB  
CHECKED BY  
MMB  
SCALE  
1/4" = 1'-0"

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drbhomedesign  
.com

PROJECT NAME  
ROBINSON  
RESIDENCE



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

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Coats, NC 27521  
910-890-2923  
scbsmith@yahoo.com

SHEET NAME  
ROOF  
SHEET #  
A5 of 5

**DESIGN LOADS**

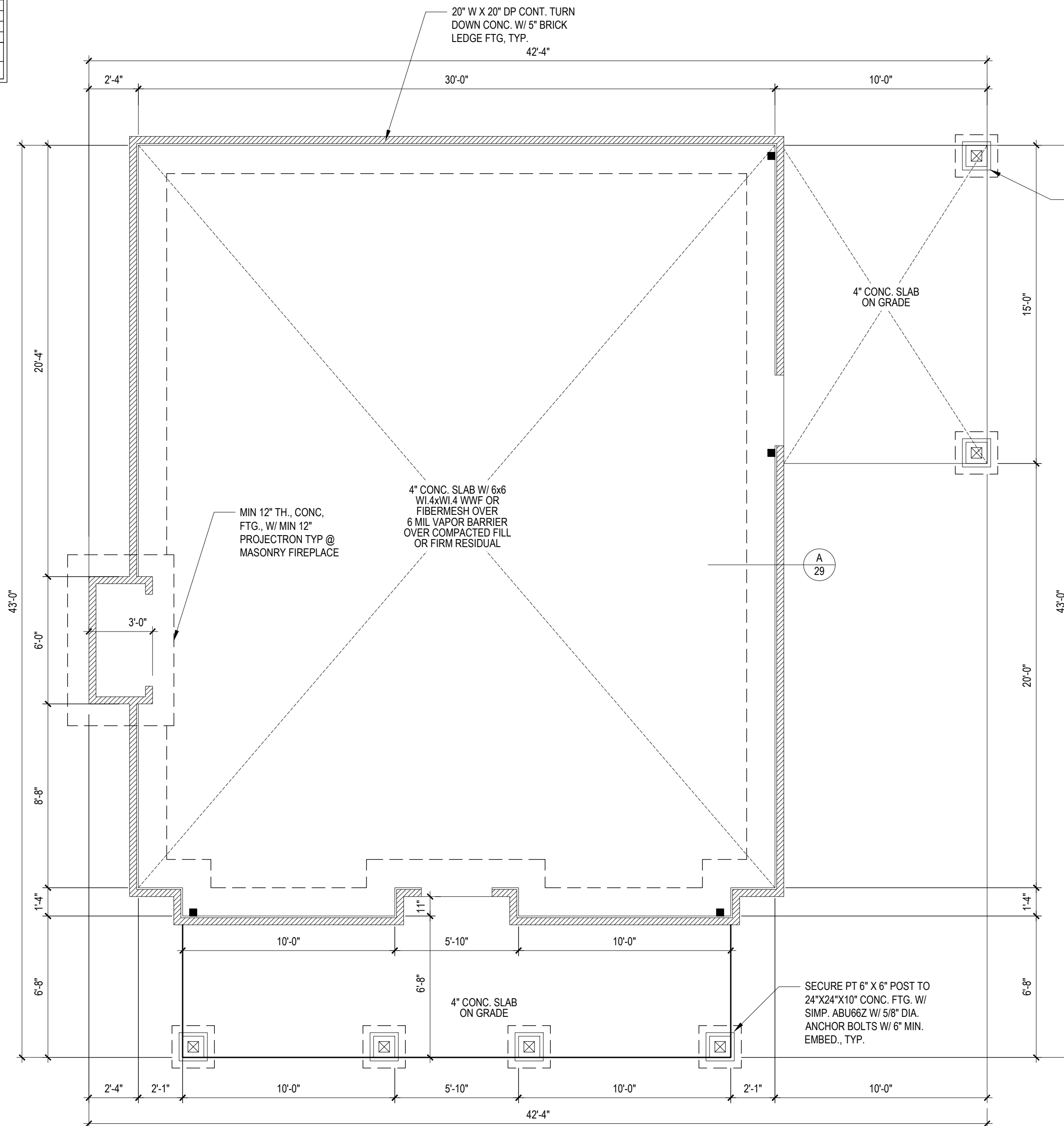
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
			LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 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 CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, P.A. 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 NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI E = 1.9M PSI  
(I.E. LEVEL MICROLAM)  
ALL LSL LUMBER IS TO BE 1.5E (Fb = 2325 PSI)
- 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) AND R602.7(2).
- ALL INTERIOR LOAD BEARING HEADERS ARE 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.
- 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.

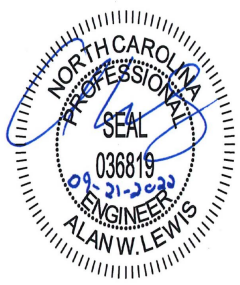
**STRUCTURAL SHEATHING NOTES**

- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCR.
- 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 NCR.
- 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



**FOUNDATION PLAN**  
1/4" = 1'-0" MONOLITHIC SLAB

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.

199 778-3800 • F 919 778-5488  
www.tyndalleengineering.com

280 Shipwash Drive • Garner • North Carolina • 27839

SMITH WOODWORKS, INC.

ROBINSON RESIDENCE

**FDN. PLAN**  
**MONO SLAB**

Project #:	DRB2201-0015
Date:	09/21/2022
Engineered By:	JA
DWG. Checked By:	AWL
Scale:	SEE PLAN

REVISIONS		
No.	Date	Remarks

Sheet Number  
**S1**  
1 of 6

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



199 778-3800 • F 919 778-9488  
 280 Shipwash Drive • Garner • North Carolina • 27539  
 www.tyndalldesign.com

Client: SMITH WOODWORKS, INC.

Date: ROBINSON RESIDENCE

**FDN. PLAN  
 STEM WALL**

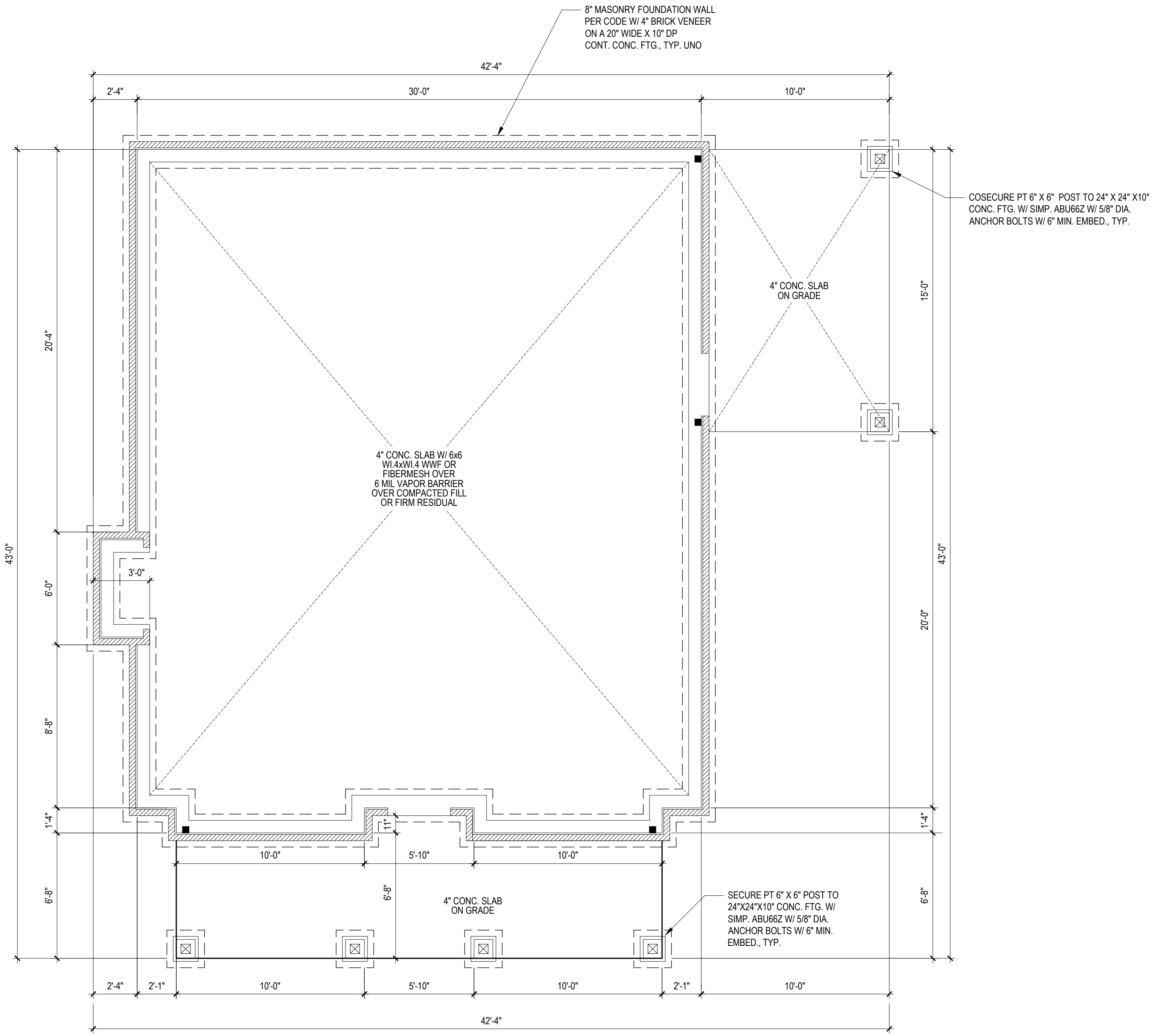
Project #:	DRB2201-0015
Date:	09/21/2022
Engineered By:	JA
DWG. Checked By:	AWL
Scale:	SEE PLAN

REVISIONS		
No.	Date	Remarks

Sheet Number

**S1**

2 of 6



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

FILENAME: Z:\P86\096\_2022\DRB2201-0015\_BRANDON\_SMITH\DRB2201-0015\_E.DWG SWIDED BY: JAY LAST PLOT DATE: 9/21/2022 3:27 PM





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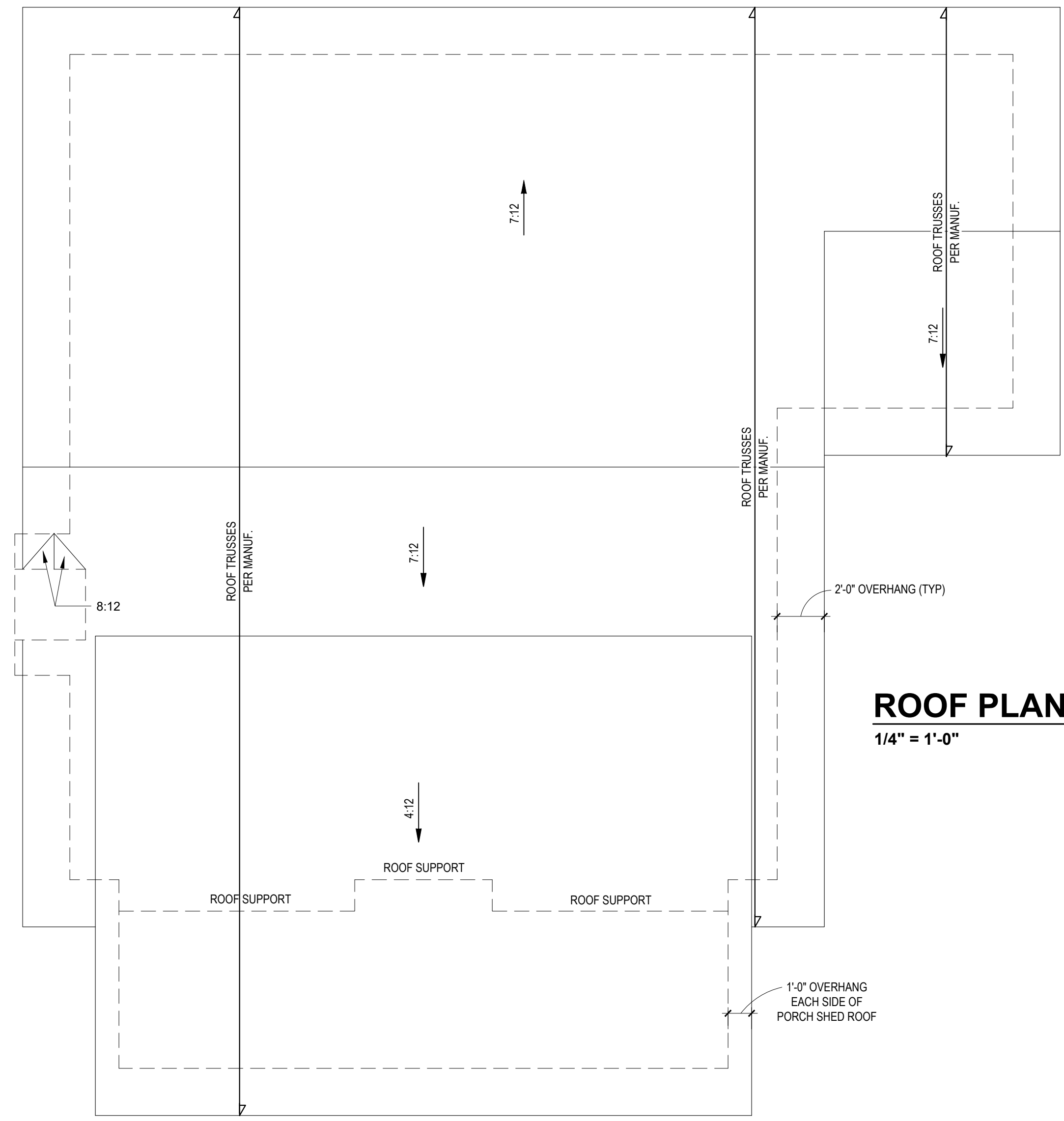
Client: SMITH WOODWORKS, INC.  
 Date: ROBINSON RESIDENCE

# ROOF PLAN

Project #: DRB2201-0015  
 Date: 09/21/2022  
 Engineer: JA  
 DWG. Checked By: AWL  
 Scale: SEE PLAN

No.	Date	Remarks

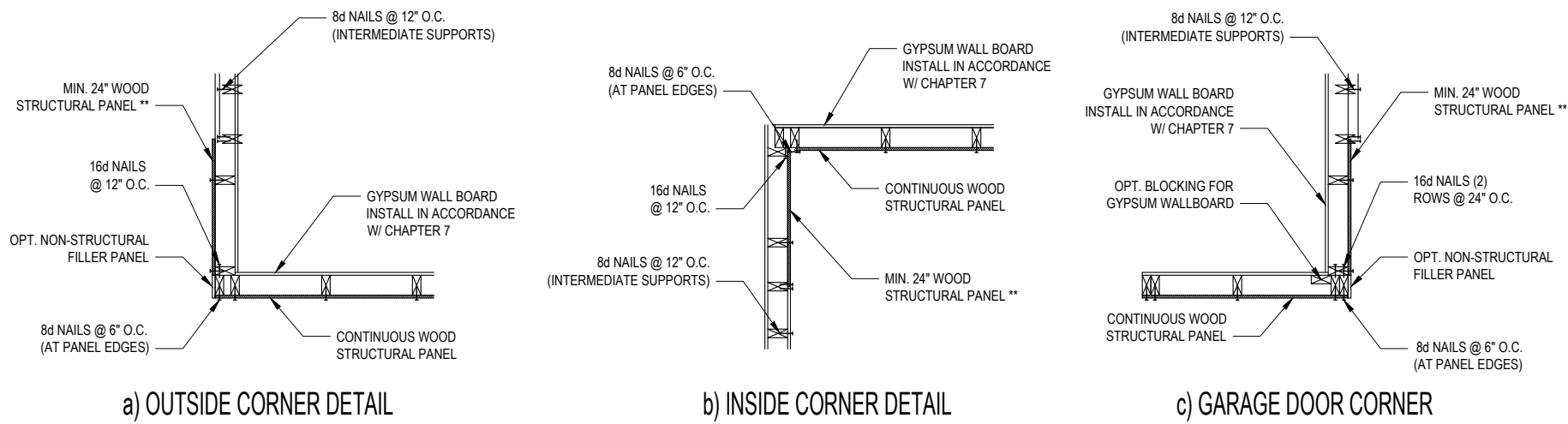
Sheet Number  
**S3**  
 4 of 6



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

FILENAME: Z:\096\096\_2022\0962201-0015\_BRANDON\_SMITH\0962201-0015\_BRANDON\_SMITH\CAD\_FILES\0962201-0015\_E.DWG SWID: BR - JAY LAST PLOT DATE: 9/21/2022 3:28 PM





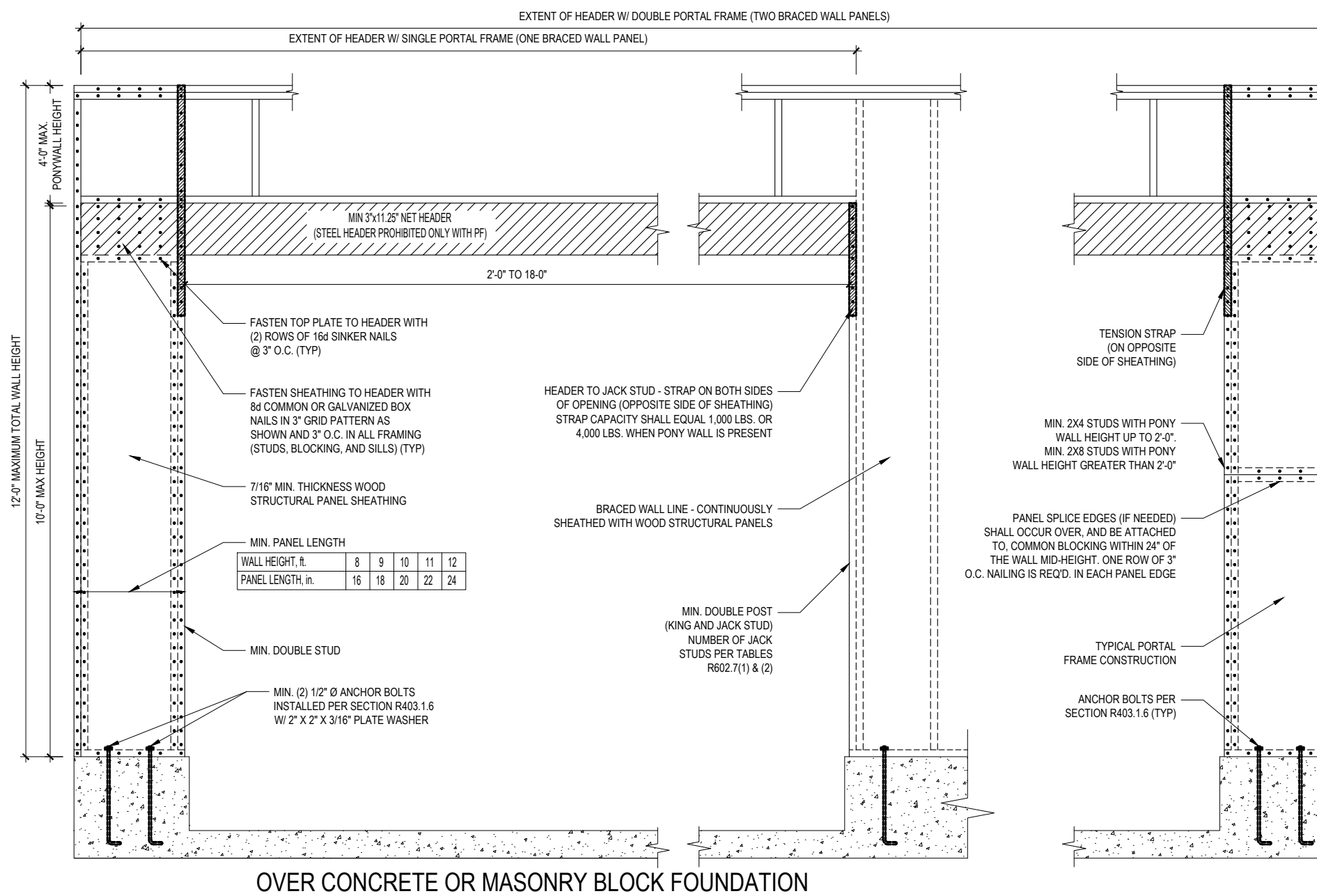
**B1: TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING**  
NO SCALE

**STRUCTURAL SHEATHING NOTES**

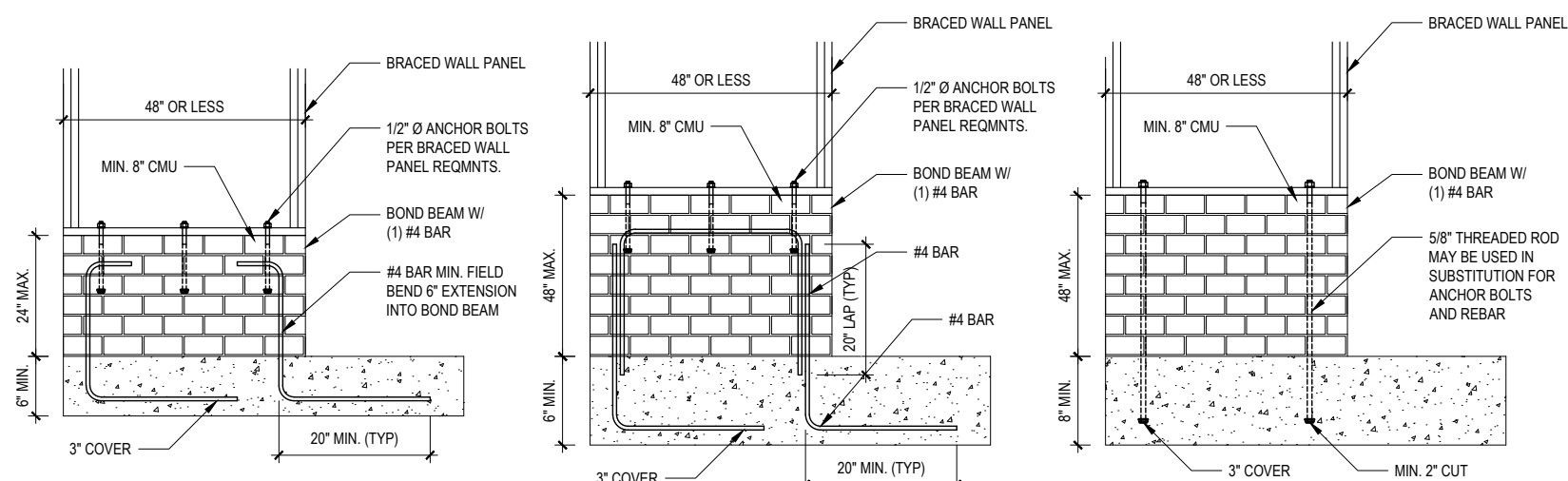
- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10.3 OF THE 2018 NRC.
- BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3 REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
- 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 (LNU).
- 12\"/>

REQUIRED BRACED WALL PANEL CONNECTIONS				
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			@ PANEL EDGES	@ INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6\"/>	

**B3: BRACE WALL PANEL CONNECTIONS**  
NO SCALE



**B2: METHOD CS-PF: CONTINUOUSLY SHEATHED PORTAL FRAME**  
FIGURE R602.10.1



**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

Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precautions. 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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SMITH WOODWORKS, INC.  
ROBINSON RESIDENCE

**SHEATHING DETAILS**

Project #: DRB2201-0015  
Date: 09/21/2022  
Engineered By: JA  
DWG. Checked By: AWL  
Scale: NOT TO SCALE

REVISIONS		
No.	Date	Remarks

Sheet Number  
**D2**  
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