

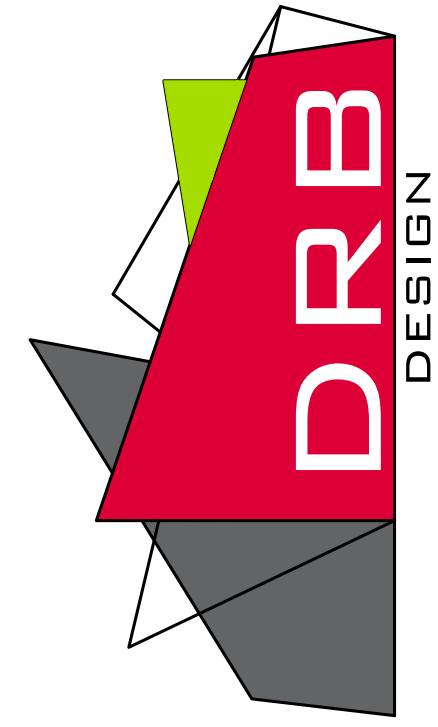
ROBINSON RESIDENCE

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

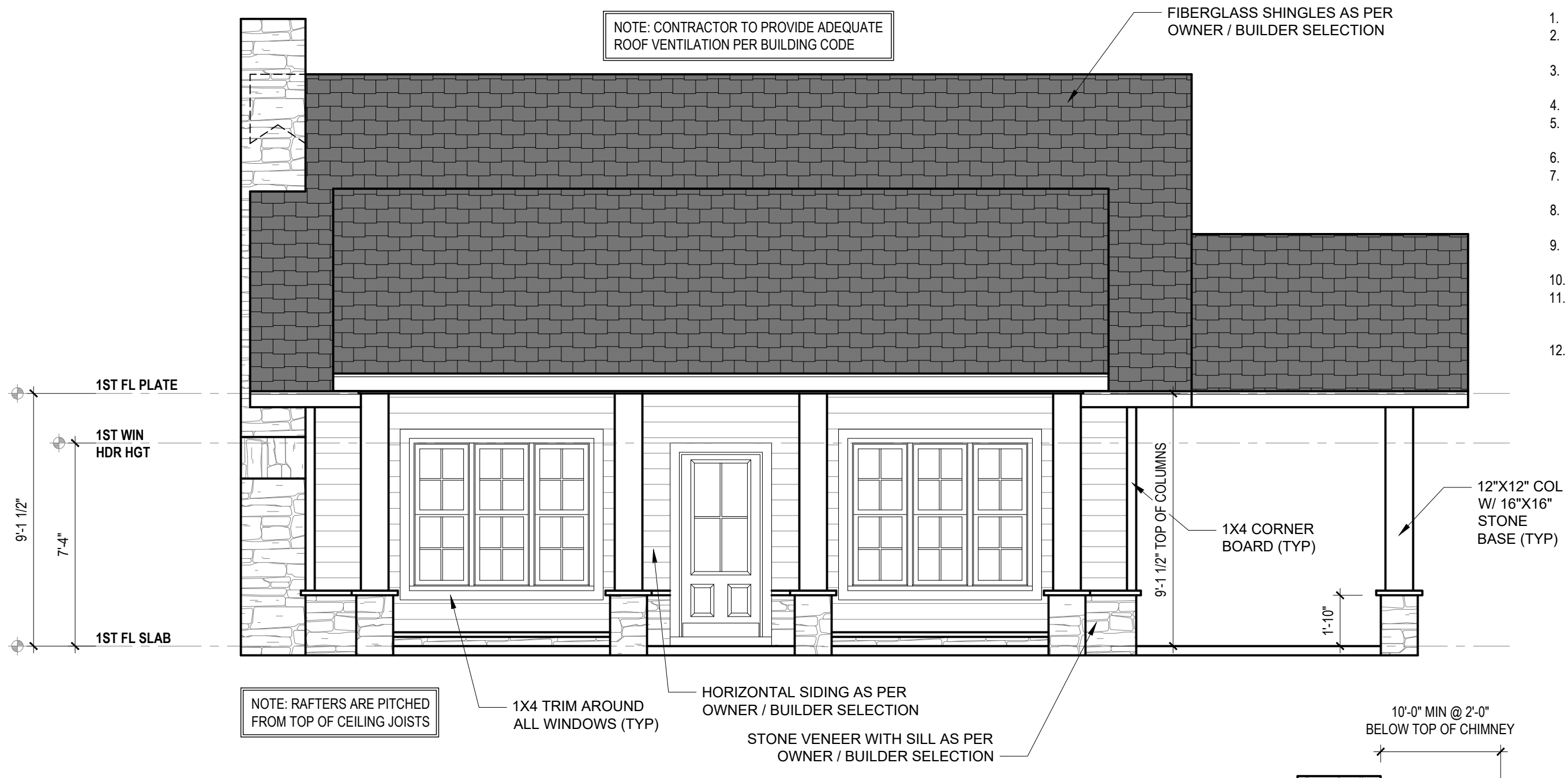


CLIENT NAME
Smith Woodworks, Inc.
P.O. Box 365
Coats, NC 27521
910-890-2923
scbsmith@yahoo.com

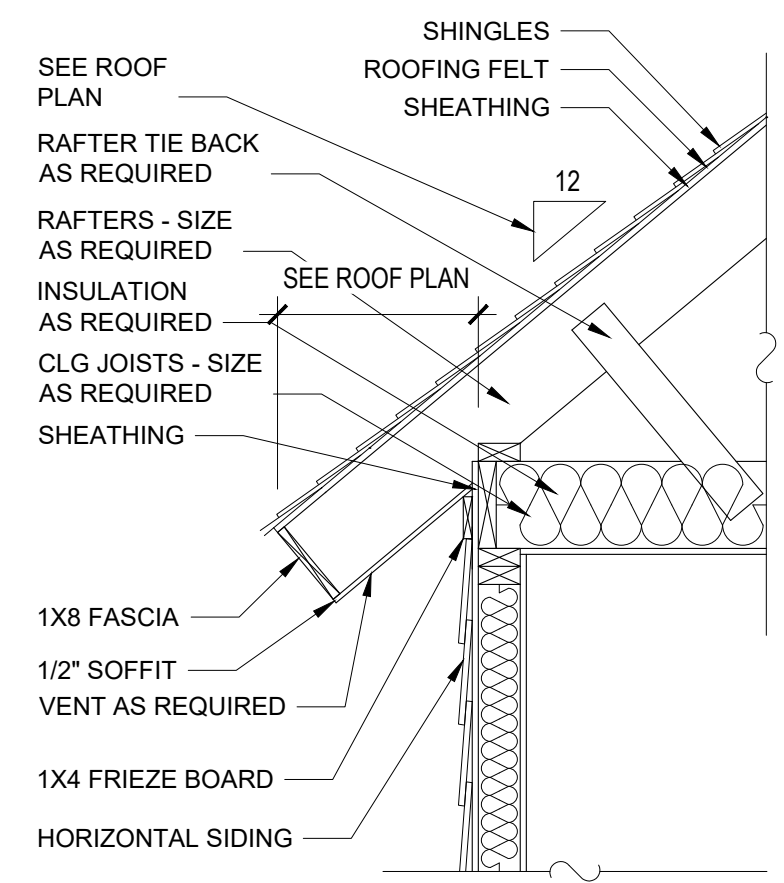
SHEET NAME
ELEVATIONS
SHEET #

A1
of 5

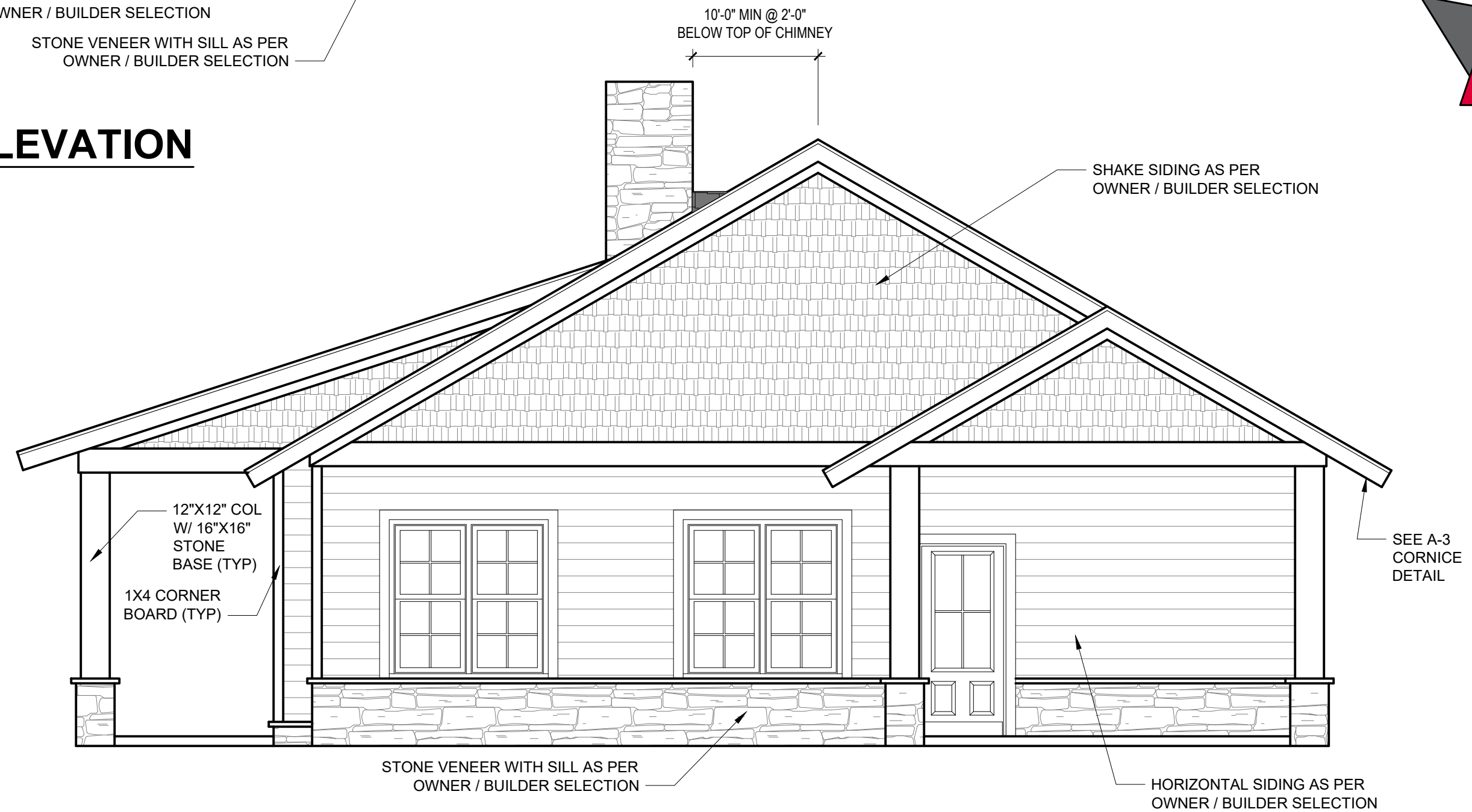
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4. Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN. Design and construction are complex and, although the designer performed his services with due care and diligence, perfection is not a guarantee.
5. Communication is imperfect and every contingency cannot be anticipated.
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FRONT ELEVATION
1/4" = 1'-0"



A-3 CORNICE DETAIL
NTS



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

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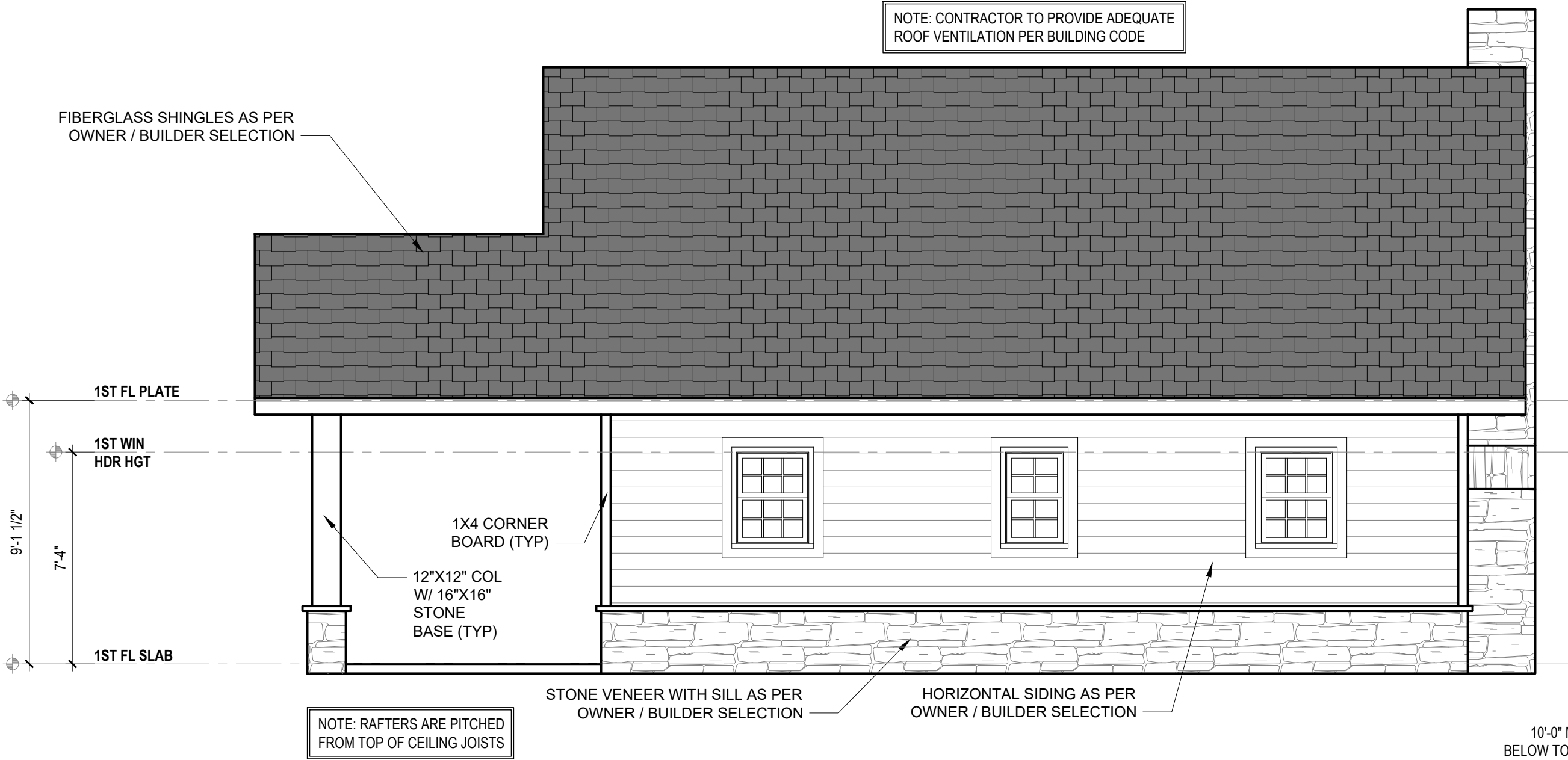
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SHEET NAME
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A2 of 5

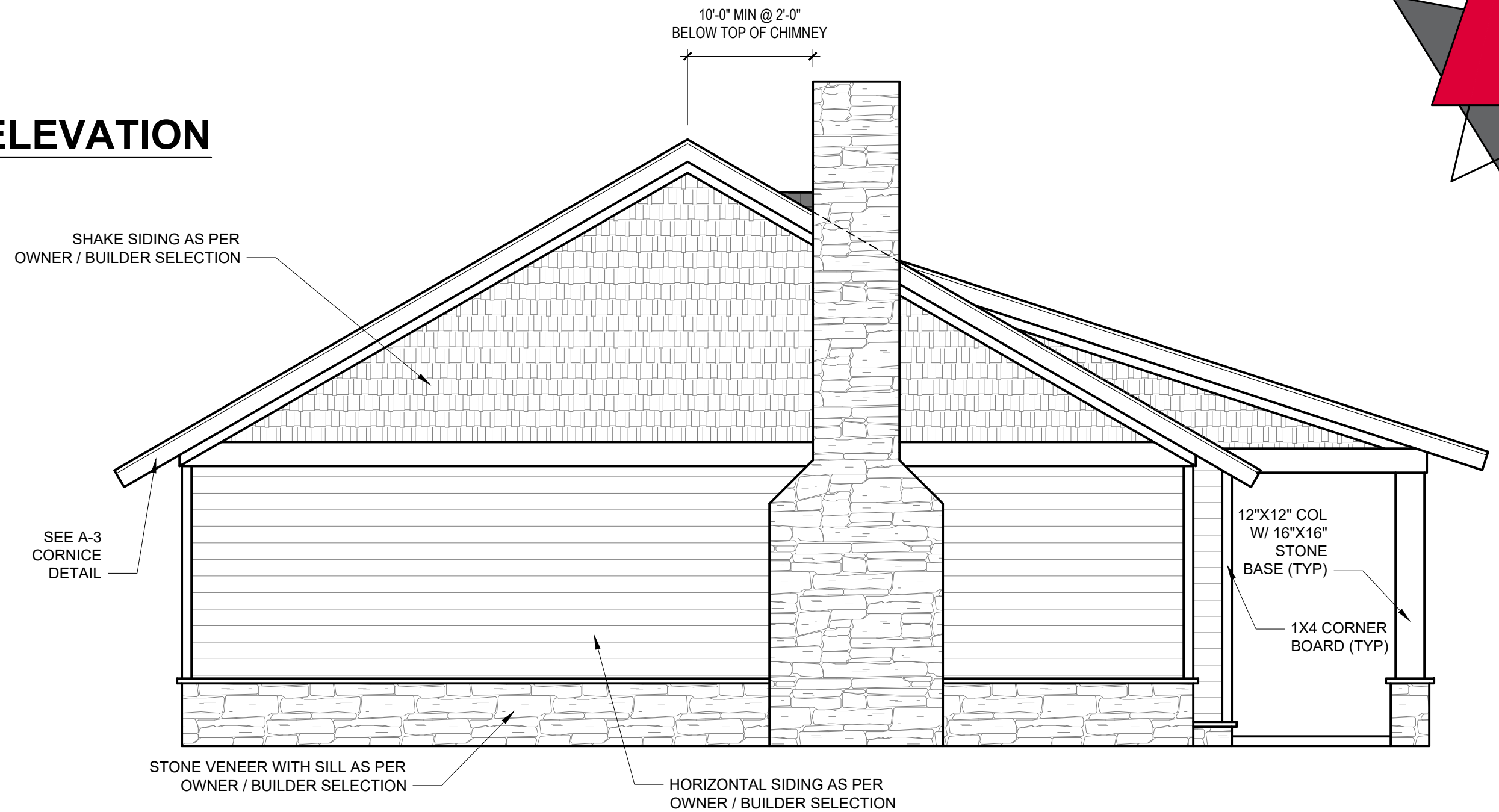
NOTE: CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION PER BUILDING CODE



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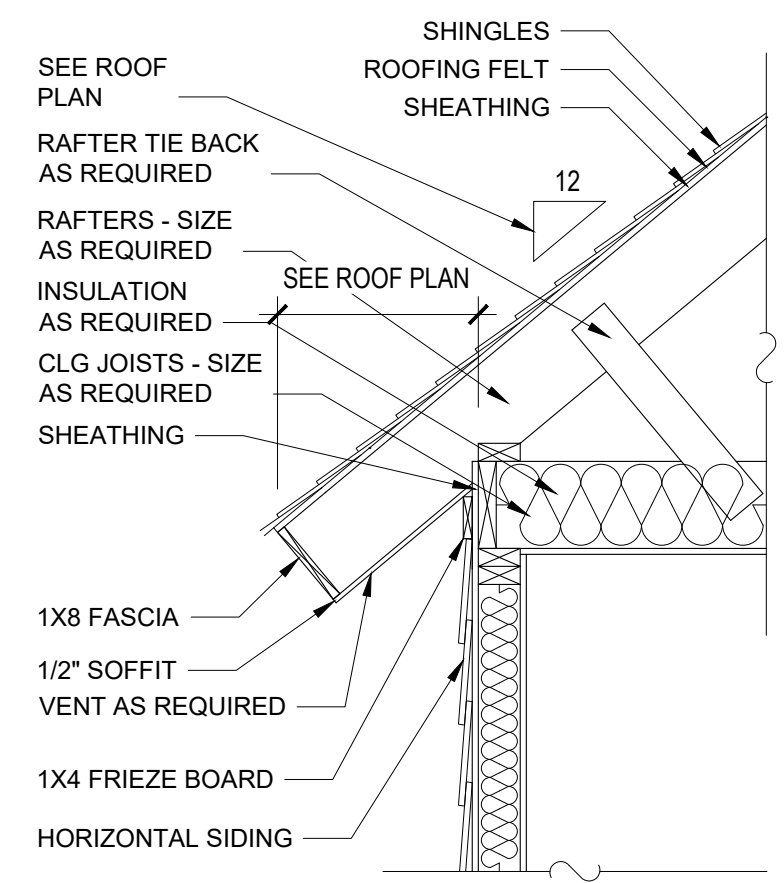
REAR ELEVATION

1/4" = 1'-0"



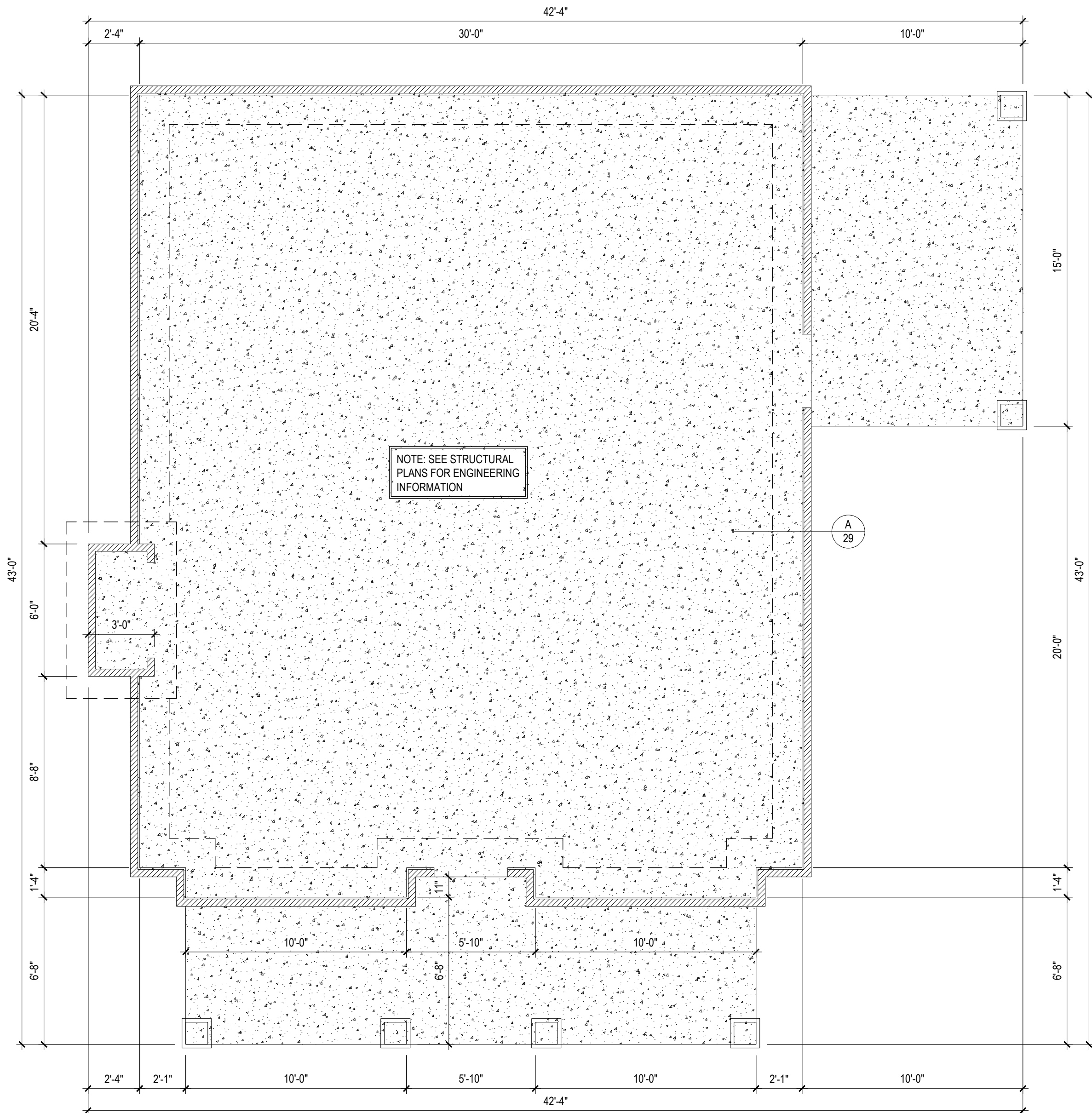
LEFT ELEVATION

1/4" = 1'-0"

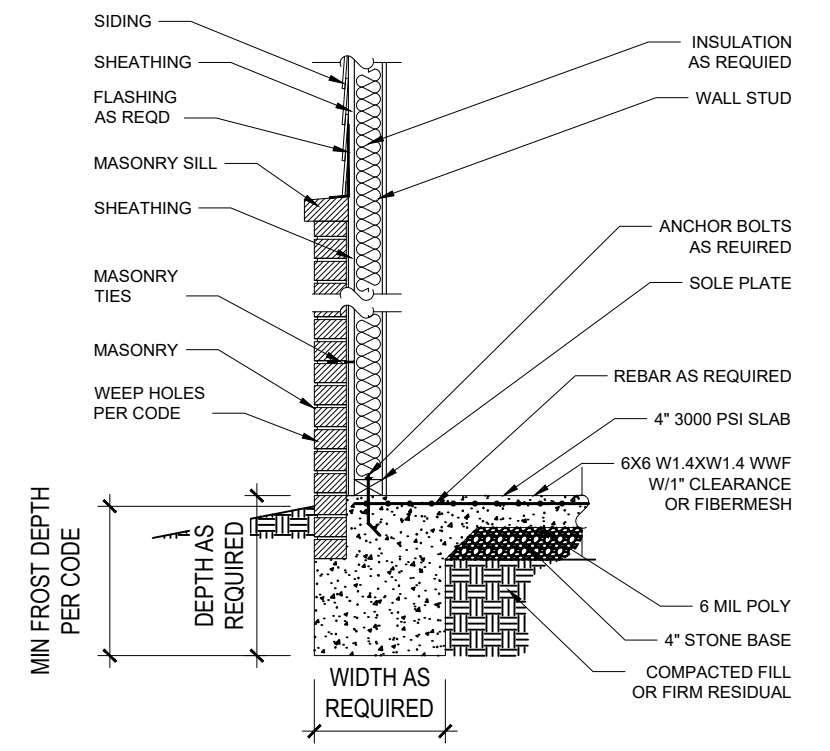


A-3 CORNICE DETAIL

NTS



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



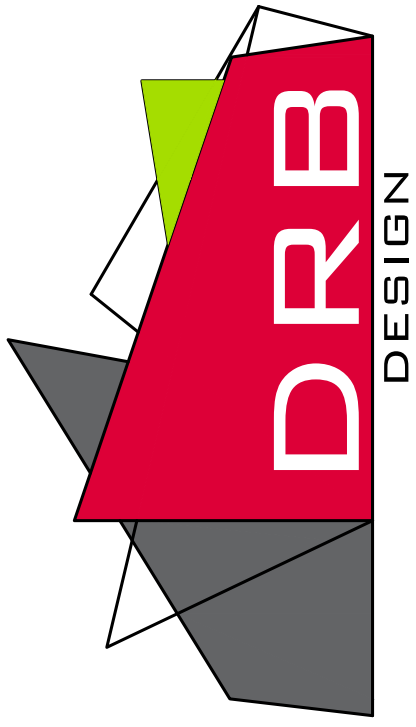
A-29 MASONRY SILL DETAIL
 NTS

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PROJECT NAME
 ROBINSON
 RESIDENCE

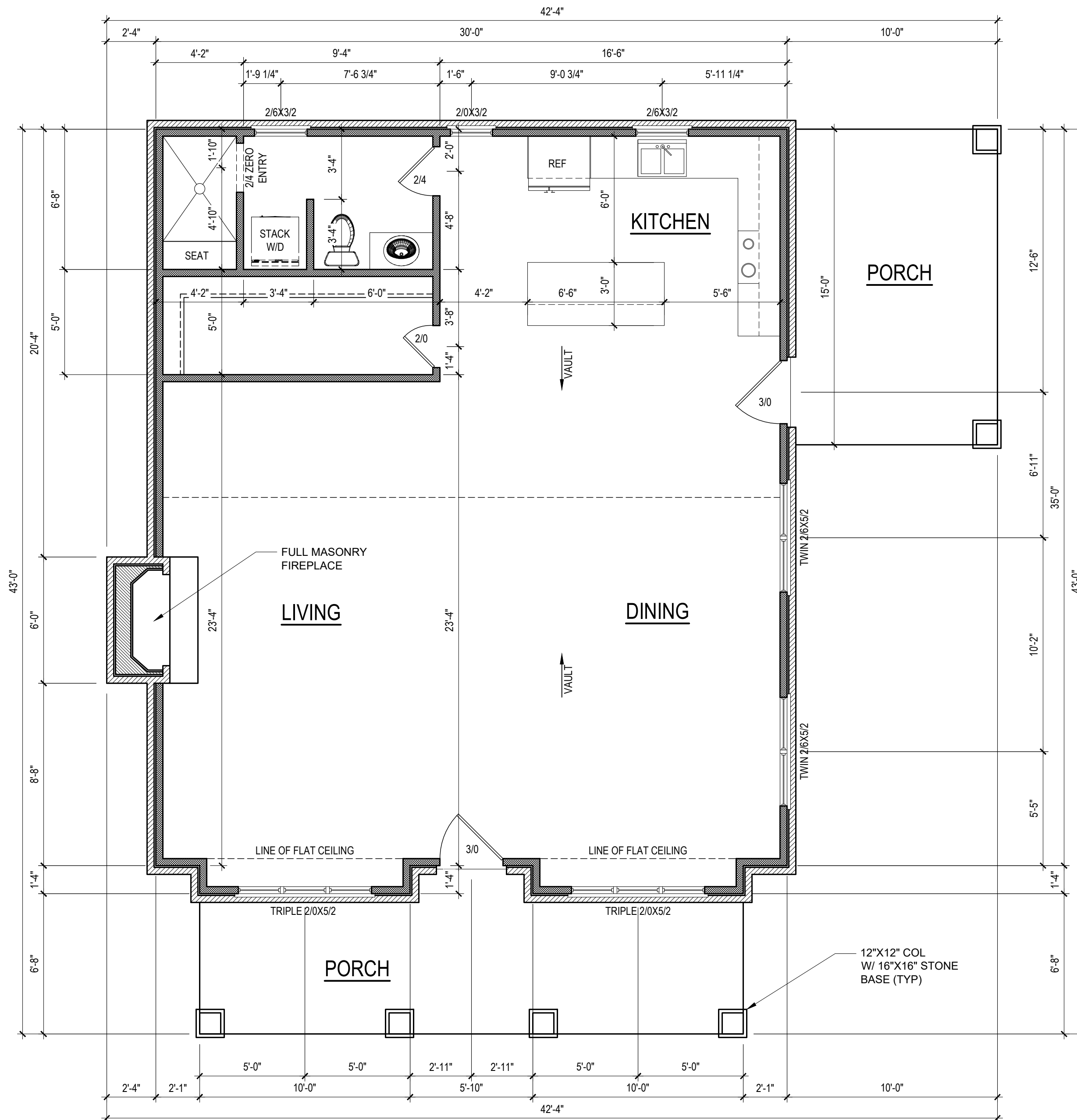


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SHEET NAME
 FOUNDATION

SHEET #
 A3 of 5



FIRST FLOOR PLAN

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

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

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

NOTE: ALL EXTERIOR WALLS ARE NOMINAL 4" UNO

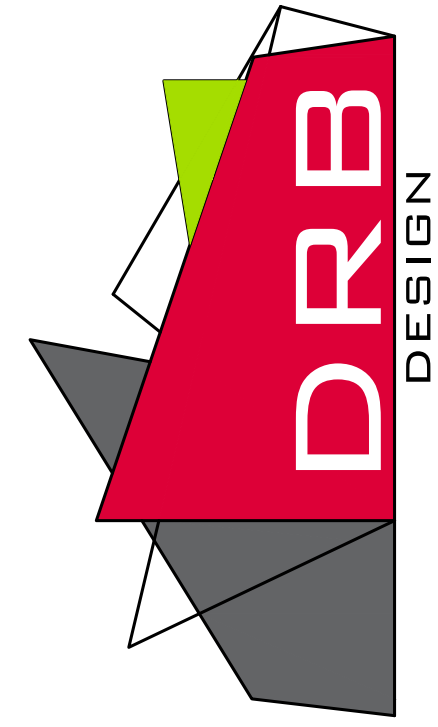
NOTE: ALL INTERIOR WALLS ARE NOMINAL 4" UNO

NOTE: ALL DIMENSIONS ARE FRAME TO FRAME

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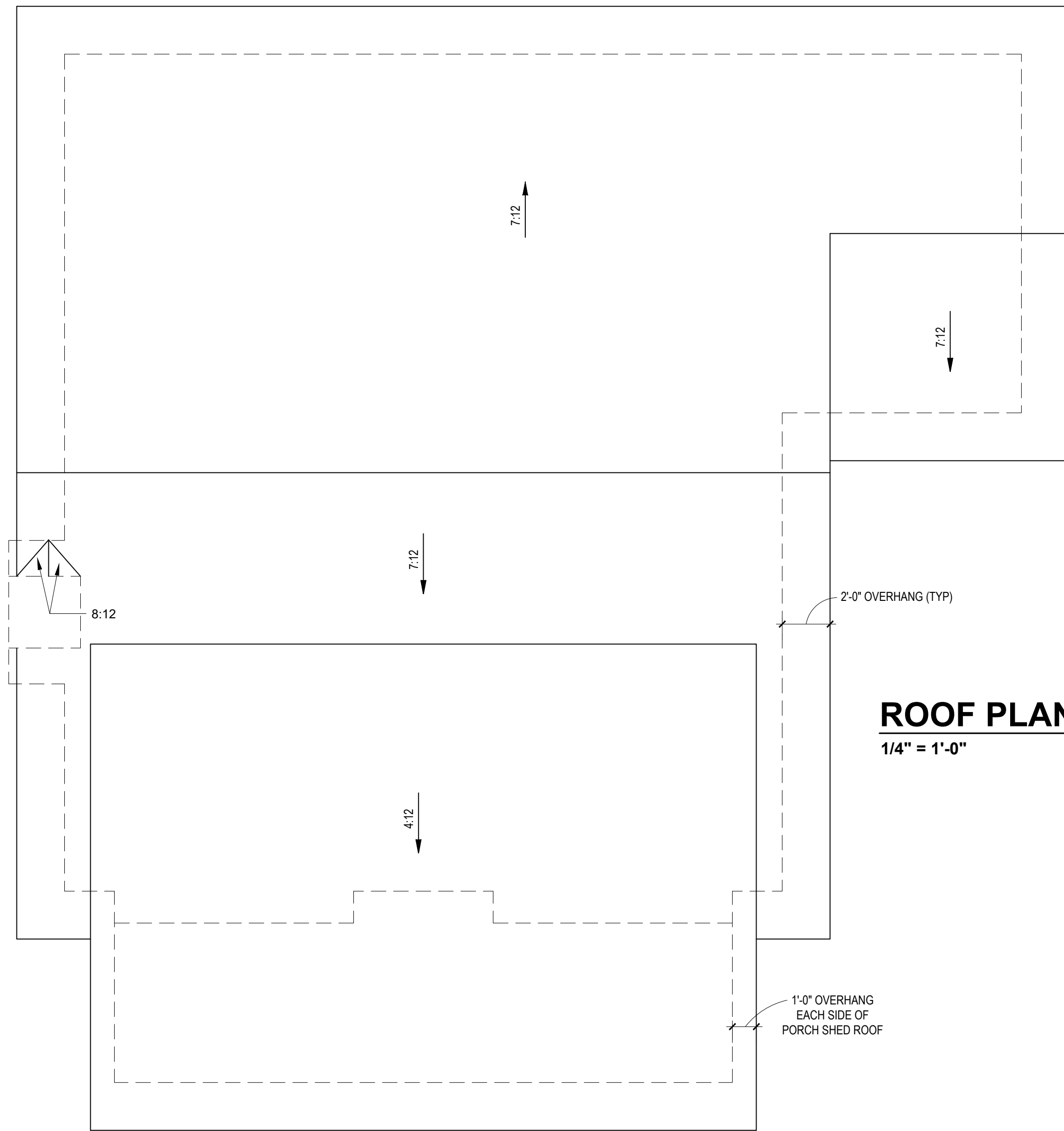
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SHEET NAME
1ST FLOOR
SHEET #



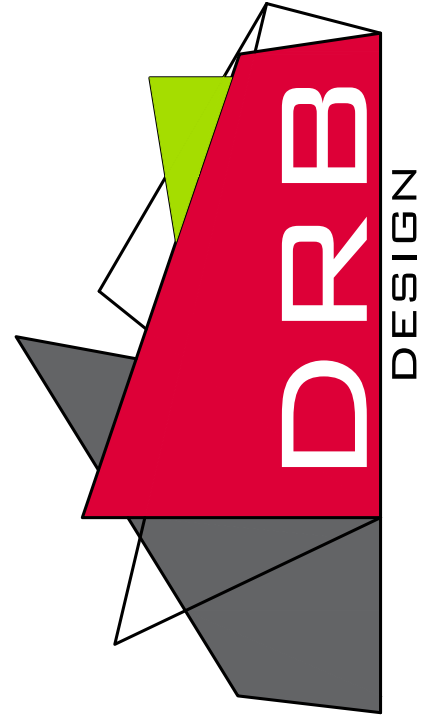
ROOF PLAN
1/4" = 1'-0"

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SHEET NAME
ROOF
SHEET #
A5 of 5

DESIGN LOADS

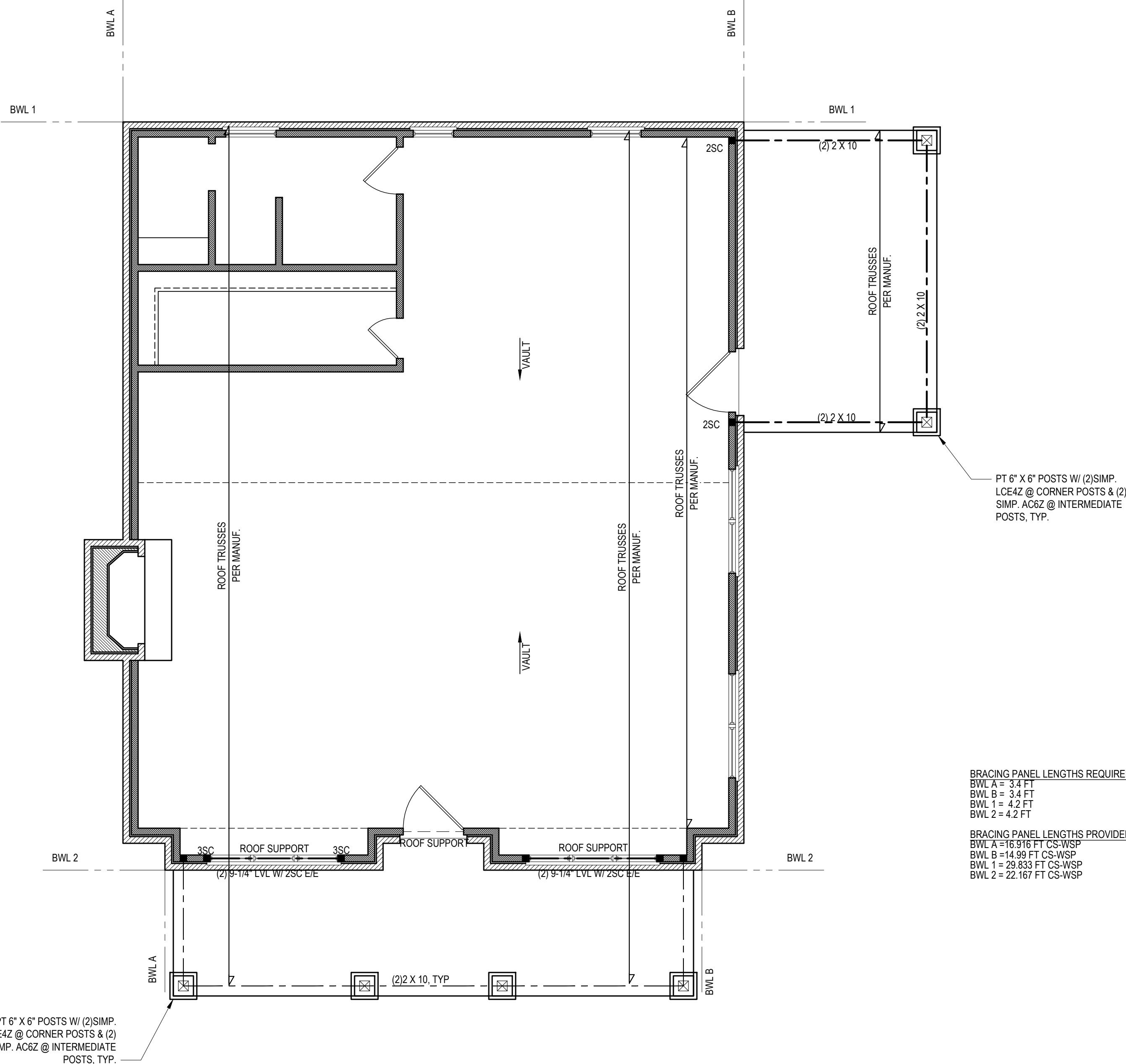
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
			LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 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, 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 NOMINAL EACH SINGLE MEMBER AND $F_b = 2600$ PSI $E = 1.9M$ PSI
(I.E. LEVEL MICROLAM)
ALL LSL LUMBER IS TO BE 1.55E ($F_b = 2325$ 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 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" 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.
- FSL 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.
- 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)
- 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 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.
- MINIMUM 800# HOLD-DOWN DEVICE



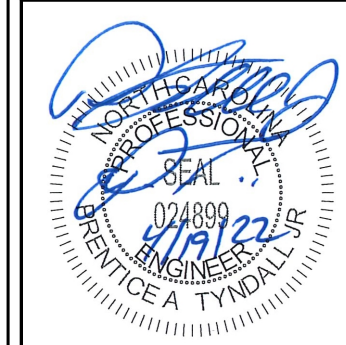
BRACING PANEL LENGTHS REQUIRED:
 BWL A = 3.4 FT
 BWL B = 3.4 FT
 BWL 1 = 4.2 FT
 BWL 2 = 4.2 FT

BRACING PANEL LENGTHS PROVIDED:
 BWL A = 16.916 FT CS-WSP
 BWL B = 14.99 FT CS-WSP
 BWL 1 = 29.833 FT CS-WSP
 BWL 2 = 22.167 FT CS-WSP

FIRST FLOOR PLAN

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

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.
 199 778-0800 • 919 778-5488
 www.tyndalldesign.com
 280 Shipwash Drive • Garner • North Carolina • 27839

SMITH WOODWORKS, INC.
 ROBINSON RESIDENCE

**1ST FLR. HEADER
 2ND FLR. FRMG.**

Project #:	DRB2201-0015
Date:	4/11/22
Engineered By:	JBE
DWG. Checked By:	PTH
Scale:	SEE PLAN

No.	Date	Remarks

Sheet Number
S2
 2 of 5

FILENAME: Z:\086\086_2022\0862201-0015_BRANDON_SMITH\0862201-0015_BRANDON_SMITH\0862201-0015_E.DWG. SAVED BY: JAY LAST PLOT DATE: 4/19/2022 4:34 PM

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TYNDALL
ENGINEERING & DESIGN, P.A.

1 919 775-3800 • F 919 775-9458
www.tyndalldesign.com

280 Shipwash Drive • Garner • North Carolina • 27839

Client: SMITH WOODWORKS, INC.

Date: ROBINSON RESIDENCE

ROOF PLAN

Project #: DRB2201-0015
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 Engineer: JBE
 DWG. Checked By: PTH
 Scale: SEE PLAN

No.	Date:	Remarks

Sheet Number
S3
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