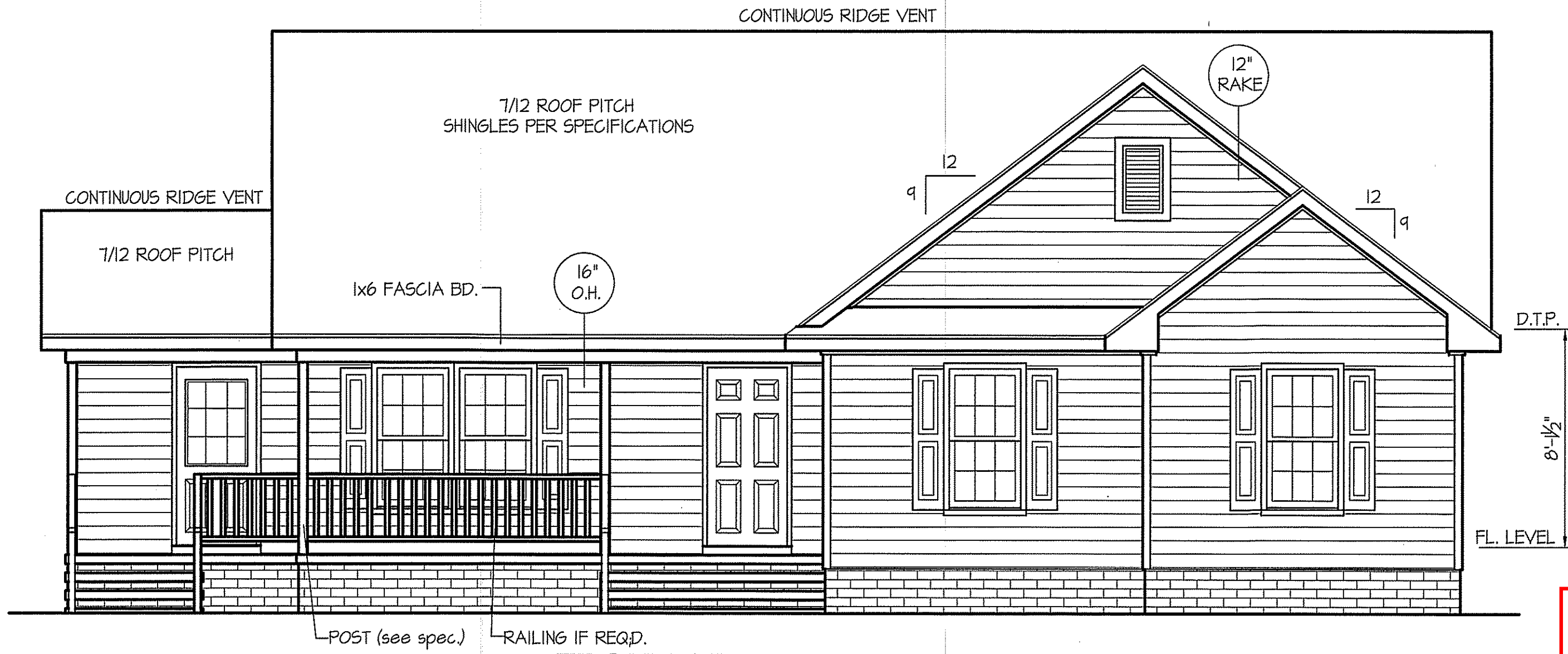


THIS PLAN IS DESIGNED TO MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION

DATE:  
FEB. 21, 2022



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

**NOTICE TO CONTRACTOR**  
All construction shall comply with current NC Building Codes and is subject to field inspection and verification.

**APPROVED**  
Unaltered building only unless Permit holder responsible for full compliance with this code.

04/18/2022

**INSULATION and FENESTRATION REQUIREMENTS**

CLIMATE ZONE	ZONE-3	ZONE-4
FENESTRATION U-FACTOR	0.35	0.35
GLAZED FENESTRATION SHGC	0.30	0.30
MINIMUM CEILING R-VALUE	R-38	R-38
MINIMUM WALL R-VALUE	R-15, I3+2.5	R-15, I3+2.5
MINIMUM FLOOR R-VALUE	R-19	R-19
MIN. CRAWL SPACE WALL R-VALUE	5/13	10/15
MIN. SLAB R-VALUE	0	R-10

PROVIDE STEPS AS REQUIRED  
GRADE MAY VARY - BUILDER TO VERIFY

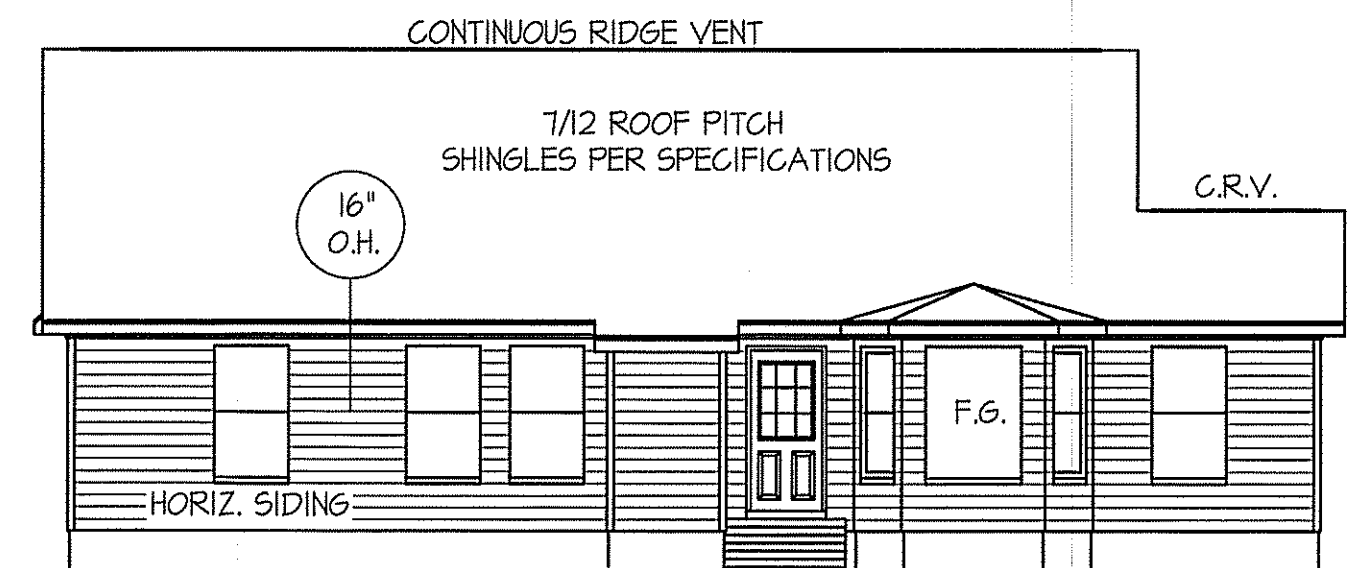
ALL EXTERIOR WALLS TO BE SHEATHED WITH CS-WSP (7/16" OSB) IN ACCORDANCE WITH SECTION R602.10.3 UNLESS OTHERWISE NOTED.

**WIND ZONES (PER TABLE R301.2(4))**

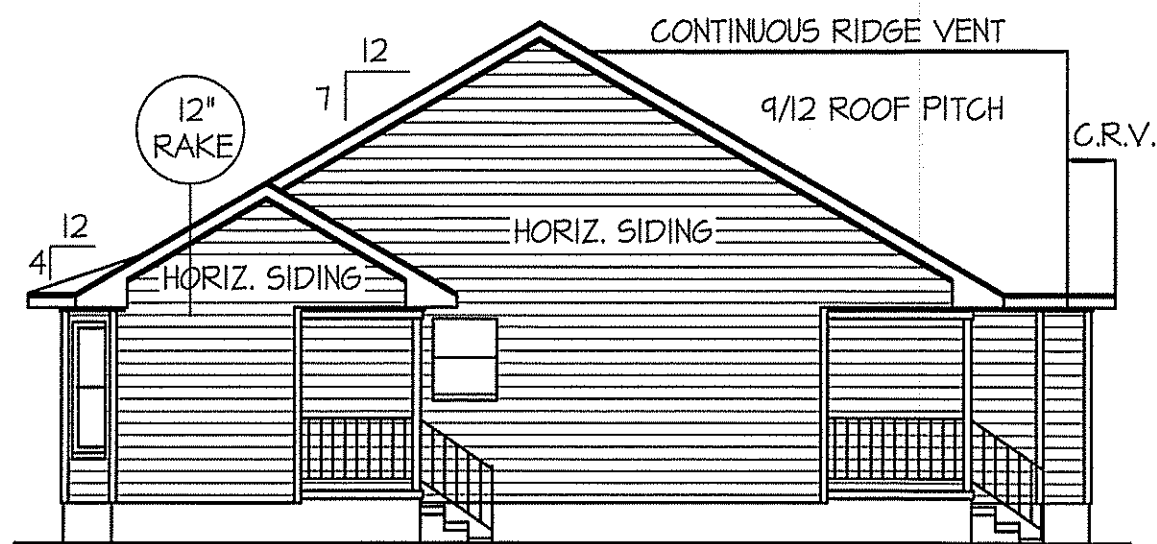
COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

**ROOF VENTILATION REQ'MTS.**  
1796 ATTIC SQ. FT. / 300 = 5.99

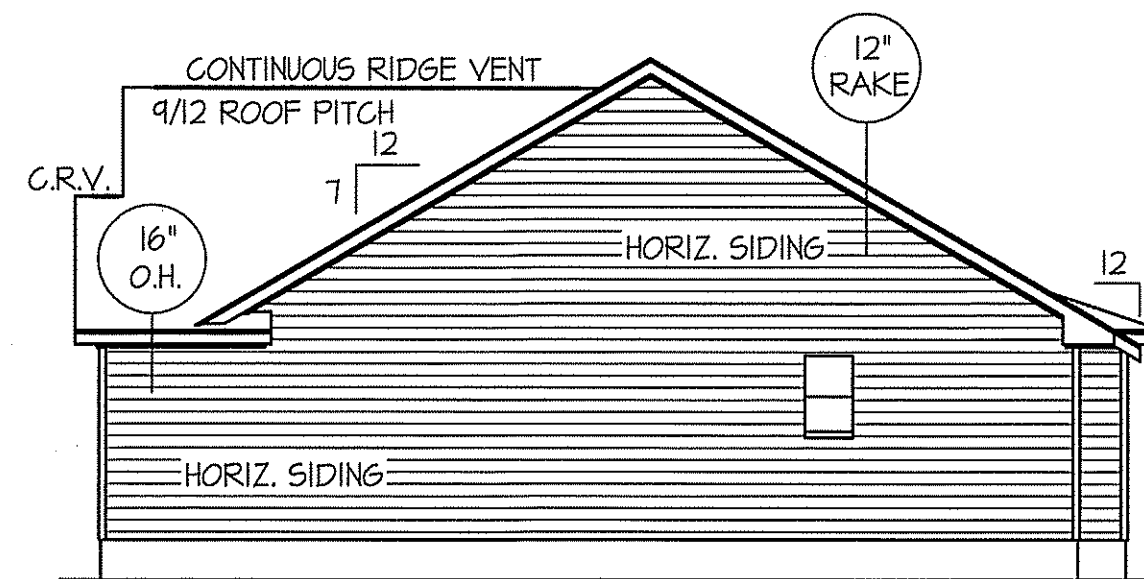
PROVIDED ON PLAN  
72 L.F. RIDGE VENT = 13.5  
91 L.F. SOFFIT VENT = 5.68  
TOTAL = 19.18 S.F. FREE NET AREA



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

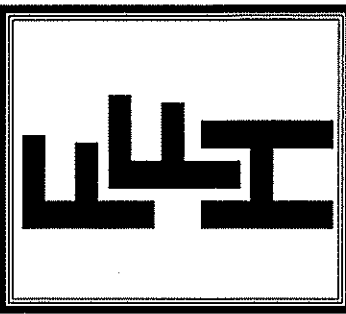


**LEFT ELEVATION**  
SCALE: 1/8" = 1'-0"



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

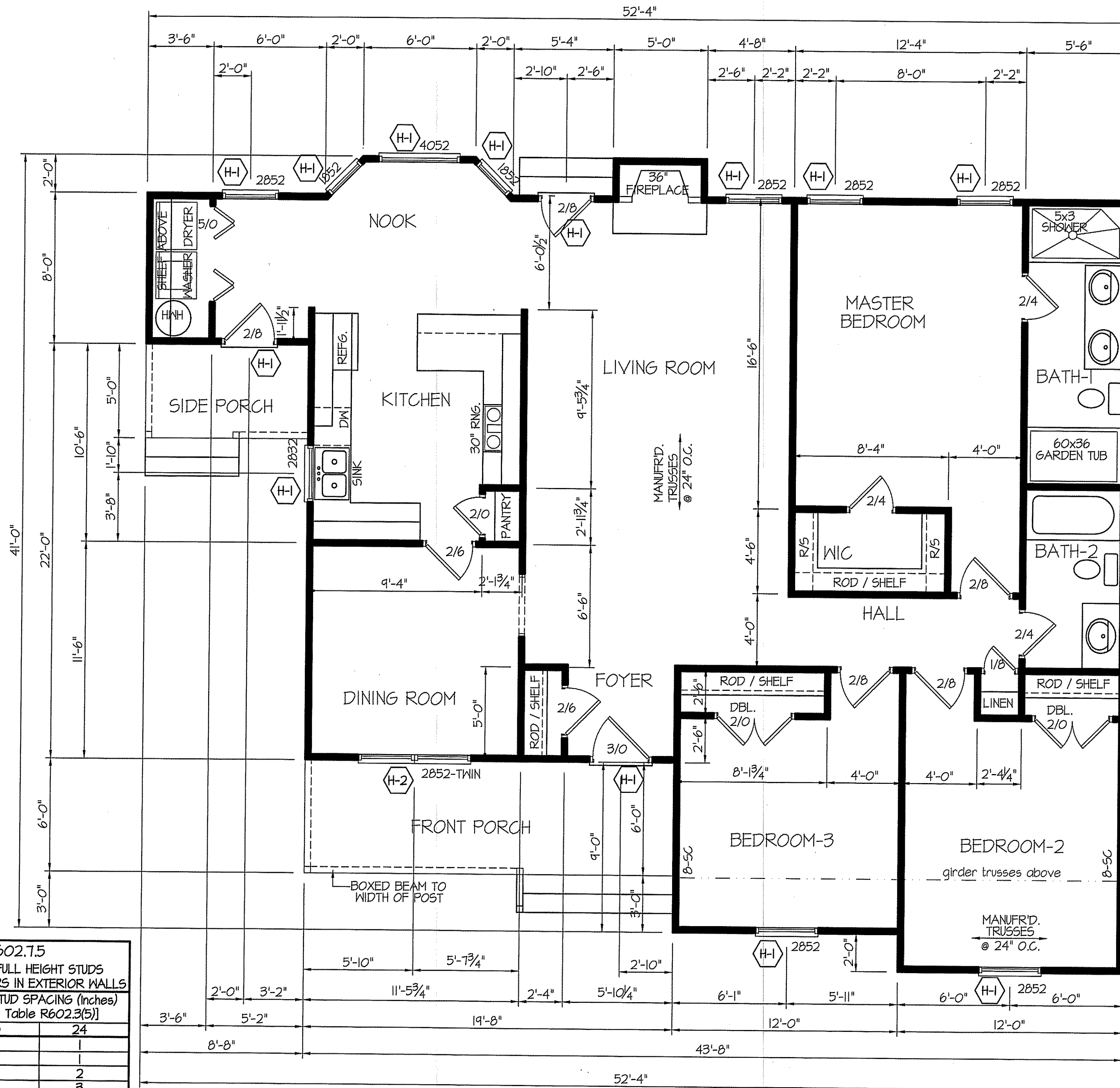
**FREEDOM FAMILY HOMES**  
P.O. BOX 608  
DUNN, N.C. - 28335  
O: (910) 892-1231 FAX: (910) 892-5680  
© 2022, FREEDOM FAMILY HOMES



**EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
CLAYTON  
MBRM. RIGHT**

PLAN:

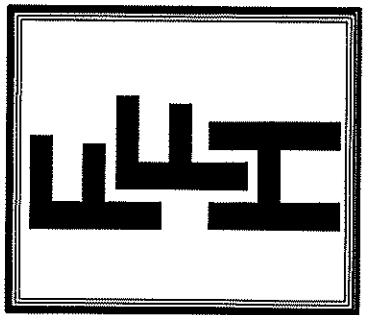
SHEET NO.  
**1**



COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

DATE:  
FEB. 21, 2022

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EXCLUSIVE PLAN FOR  
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**CLAYTON**  
MBRM. RIGHT

HEADER SPAN (feet)	MAX. STUD SPACING (Inches) [per Table R602.3(5)]	
	16	24
< 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

GIRDER AND HEADER SIZES AND JACK STUD REQUIREMENTS ON EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE TO COINCIDE WITH TABLE EXT.-R602.7 (1) AND INT.-R602.7 (2).

SECTION R407-COLUMNS  
R407.3 STRUCTURAL REQUIREMENTS.  
THE COLUMNS SHALL BE RESTRAINED TO PREVENT LATERAL DISPLACEMENT AT THE TOP AND BOTTOM END. WOOD COLUMNS SHALL BE NOT LESS IN NOMINAL SIZE THAN 4 INCHES BY 4 INCHES (102 mm BY 102 mm). STEEL COLUMNS SHALL BE NOT LESS THAN 3-INCH-DIAMETER (76 mm) SCHEDULE 40 PIPE MANUFACTURED IN ACCORDANCE WITH ASTM A53 GRADE B OR APPROVED EQUIVALENT.

1635 S.F. (HEATED-FRAME)  
118 S.F. (FRONT PORCH)  
43 S.F. (SIDE PORCH)

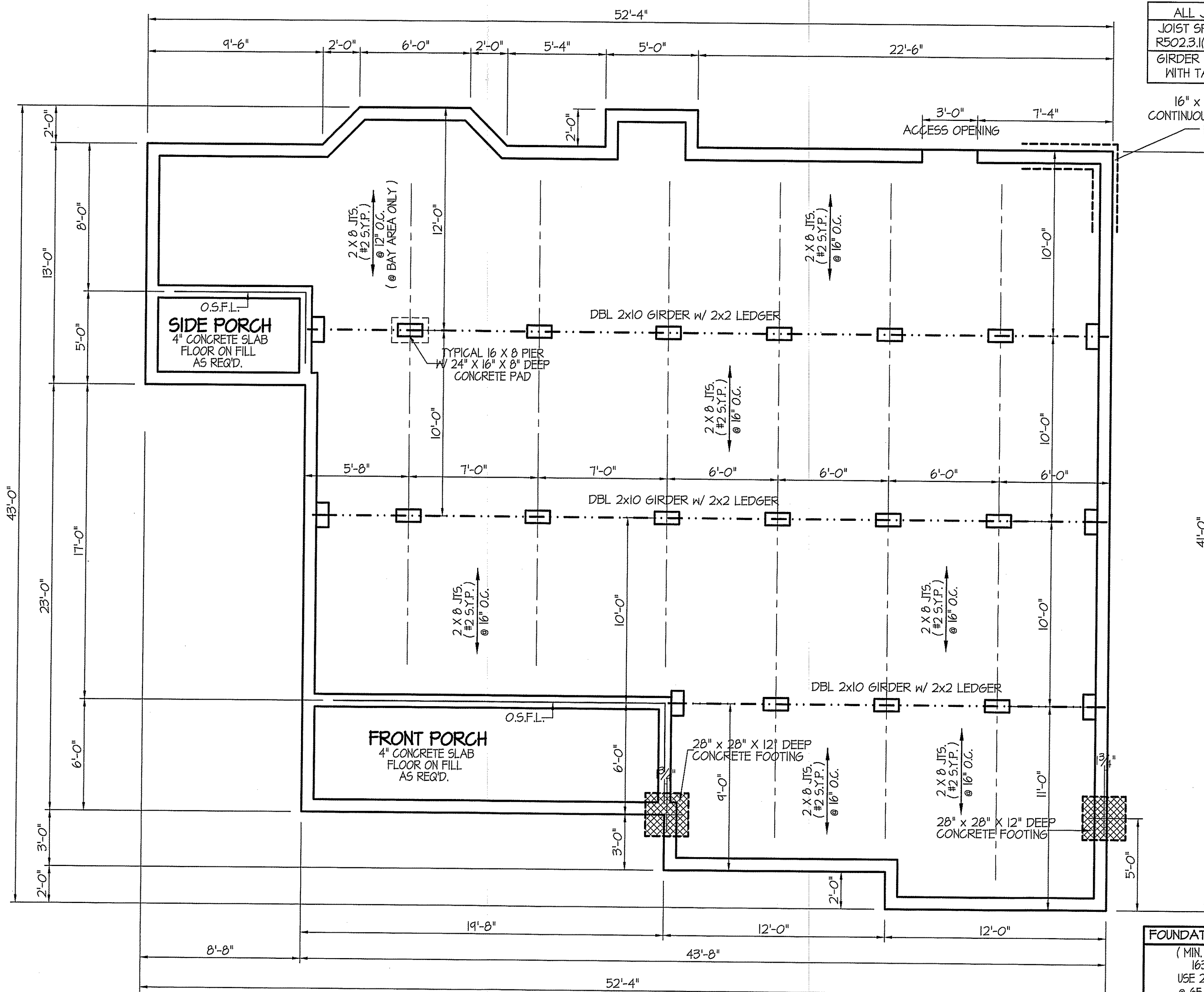
TYP. 8' CEILINGS  
**FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

ALL INTERIOR AND EXTERIOR LOAD BEARING HEADERS WILL BE 2x10 #2 SPF UNLESS OTHERWISE NOTED.

SYMBOL #	SIZE	JACKS
H-1	(2) 2x10	1
H-2	(2) 2x10	2
H-3	(2) 2x8	2
H-4	(2) 2x12	2
H-5	(2) 1.75 x 9.25 LVL	3

ALL EXTERIOR WALLS TO BE SHEATHED WITH CS-WSP (1/16" OSB) IN ACCORDANCE WITH SECTION R602.10.3 UNLESS OTHERWISE NOTED.

SHEET NO.  
**2**



ALL JOISTS AND GIRDERS WILL BE #2 S.Y.P.  
 JOIST SPANS TO COINCIDE WITH REVISED TABLES  
 R502.3.1(1) and R502.3.1(2) FROM 2018 NCR CODES  
 GIRDER SPANS AND HEADER SPANS TO COINCIDE  
 WITH TABLE R602.7(1), R602.7(2) AND R602.7(3).

16" x 8" DEEP  
 CONTINUOUS CONC.  
 FOOTING

**FOUNDATION DRAINAGE EXCEPTION**  
 A DRAINAGE SYSTEM IS NOT REQUIRED WHEN THE FOUNDATION IS  
 INSTALLED ON WELL-DRAINED GROUND OR SAND-GRAVEL MIXTURE SOILS  
 ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM,  
 GROUP 1 SOILS, AS DETAILED IN TABLE R405.1

**NOTES:**  
 USE 2 X 6 MUD SILL W/ SGL. 2X8 BANDS ON 8" WALLS  
 PROVIDE ANCHOR BOLTS PER NC STATE CODE  
 USE DOUBLE 2X10 GIRDERS W/ 2X2 LEDGERS  
 USE 2X8 JOISTS @ 12" and 16" O.C., ADD SGL. JOIST  
 UNDER PARALLEL INTERIOR WALLS AS REQ'D.  
 PROVIDE 24 X 36 ACCESS OPENING IN FND. WALL.  
 PROVIDE STEPS TO GRADE (MAX. 8")  
 HOLD ALL PIERS 1/2" BELOW FND. WALLS.

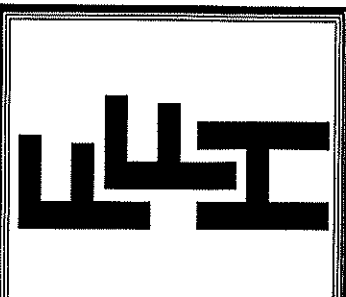
**FOUNDATION ANCHORAGE**  
 THE WOOD SILL PLATE ON PERIMETER SHALL BE ANCHORED  
 TO THE FOUNDATION WALLS WITH ANCHOR BOLTS  
 SPACED A MAXIMUM OF 4' ON CENTER. ANCHOR BOLTS SHALL  
 ALSO BE LOCATED WITHIN 12" FROM THE ENDS  
 OF EACH PLATE SECTION. BOLTS SHALL BE AT LEAST  
 1/2" IN DIAMETER AND SHALL EXTEND A MINIMUM  
 OF 15" INTO MASONRY OR CONCRETE.  
 BOLTS CAN BE SUBSTITUTED WITH  
 SIMPSON-MAS STRAPS @ 4' O.C.

**FOUNDATION VENTILATION INFORMATION**  
 (MIN. NET AREA OF VENT. REQ'D. = 1/150)  
 1635 S.F. (CRAWL) x .96 = 1569.6 S.I.  
 USE 25" WITTEN AUTO. VENT" FND. VENTS  
 @ 65 S.I. FREE NET AREA or EQUIVALENT.  
 (MIN. NET AREA CAN BE REDUCED TO 1/1,500)  
 1635 S.F. (CRAWL) x .096 = 157 S.I.  
 USE 3" WITTEN AUTO. VENT" FND. VENTS  
 @ 65 S.I. FREE NET AREA or EQUIVALENT.  
 w/ APPROVED 6-mil POLYETHYLENE VAPOR RETARDER  
 or EQUIVALENT IN CRAWL SPACE.  
 REQUIRED VENTS ARE TO BE PLACED SO AS TO  
 PROVIDE CROSS-VENTILATION OF THE CRAWL SPACE.

BOX SILL  
**FOUNDATION PLAN**  
 SCALE: 1/4" = 1'-0"

DATE:  
 FEB. 21, 2022

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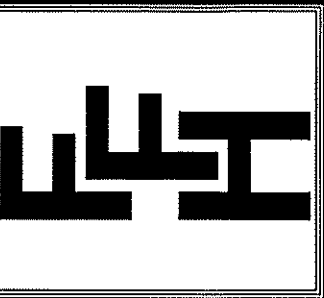
**EXCLUSIVE PLAN FOR**  
**FREEDOM FAMILY HOMES**  
**CLAYTON**  
 MBRM. RIGHT

PLAN:  
 SHEET NO.  
**3**



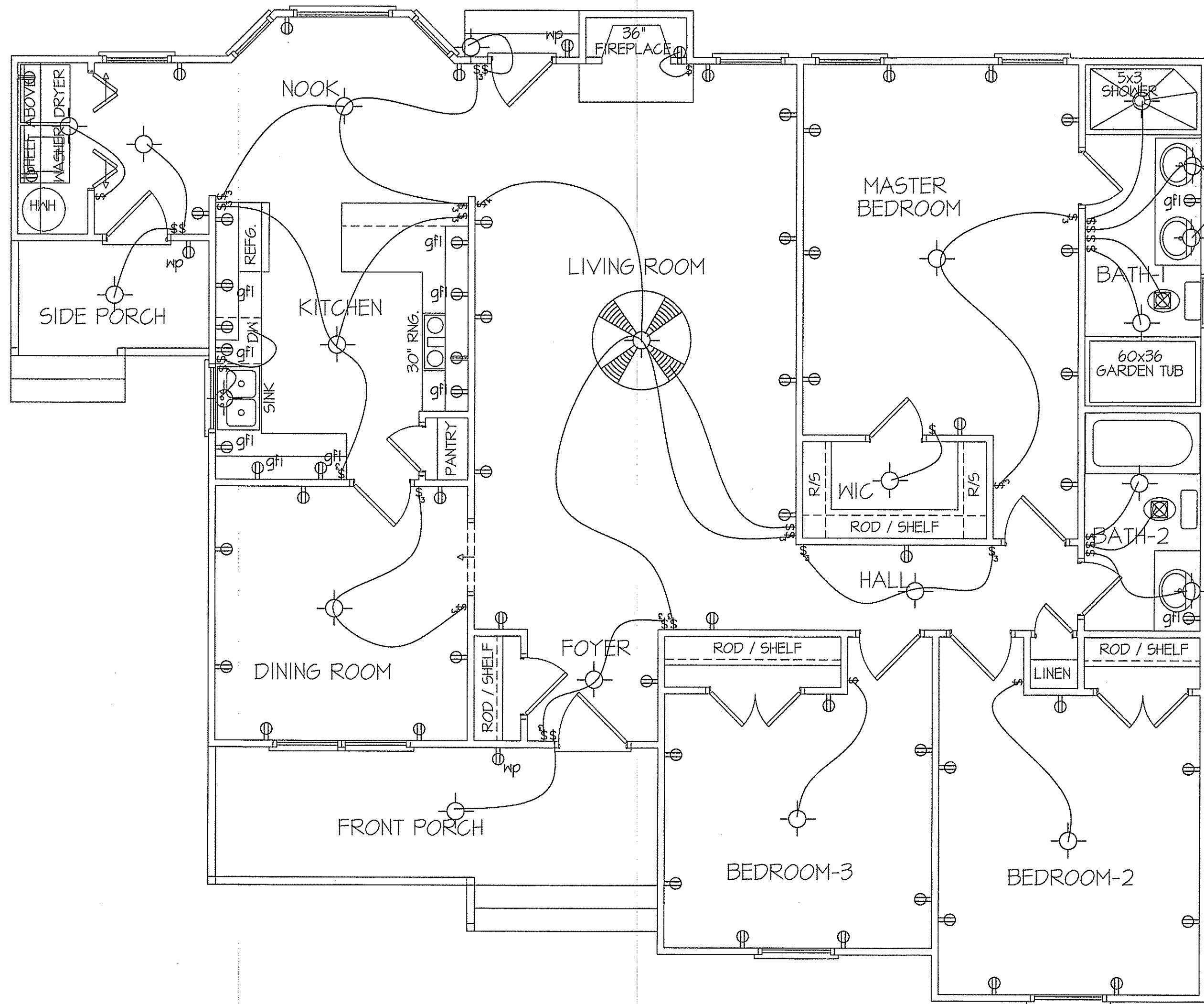
DATE:  
FEB. 21, 2022

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**EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
CLAYTON  
MBRM. RIGHT**

SHEET NO.  
**4**



TYP. 8' CEILINGS  
**ELECTRICAL  
FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

1635 S.F. (HEATED-FRAME)  
118 S.F. (FRONT PORCH)  
43 S.F. (SIDE PORCH)

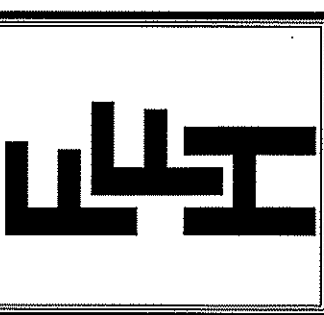
TOTAL HEAT GAIN = 34,662 B.T.U.H.  
TOTAL HEAT LOSS = 50,848 B.T.U.H.

**NOTE:**  
HVAC CONTRACTOR TO VERIFY and PROVIDE OWNERS and BUILDER UNIT INFORMATION, BTUH REQUIREMENTS, and DUCT LAYOUTS BEFORE CONSTRUCTION BEGINS.

<b>ELECTRICAL LEGEND</b>		
<small>PROVIDE BURGLAR/SMOKE AND FIRE DETECTORS AS PER MANUFACTURER'S SPECIFICATIONS. PROVIDE CENTRAL VACUUM SYSTEM AS PER MANUFACTURER'S SPECIFICATIONS. ALL FANS ARE TO BE CONTROLLED BY VAR/SPEED AND DIRECTIONAL SWITCHES</small>		
⊕ SURF. MOUNTED LIGHT	⊕ TYPICAL WALL RECEP.	⊕ TYPICAL SWITCH
○ RECESSED LIGHT	⊕ TOP 1/2 HOT W/SWITCH	⊕ 3-WAY SWITCH
⊕ EYEBALL LIGHT	⊕ CEILING RECEPTACLE	⊕ 4-WAY SWITCH
⊕ FAN/LIGHT COMB.	⊕ FLOOR RECEPTACLE	⊕ DIMMER SWITCH
— FLUORESCENT TUBE	⊕ WATERPROOF RECEP.	⊕ ELEC. PANEL BOX
□ FLUOR. LIGHT FIXTURE	⊕ GROUND FAULT	⊕ T.V. CABLE RECEP.
⊕ EXHAUST FAN	⊕ DISPOSAL UNIT	⊕ TELEPHONE JACK
⊕ CL'G. FAN	⊕ 220 VOLT RECEPTACLE	⊕ COMPUTER JACK
⊕ FLOOD LIGHT		

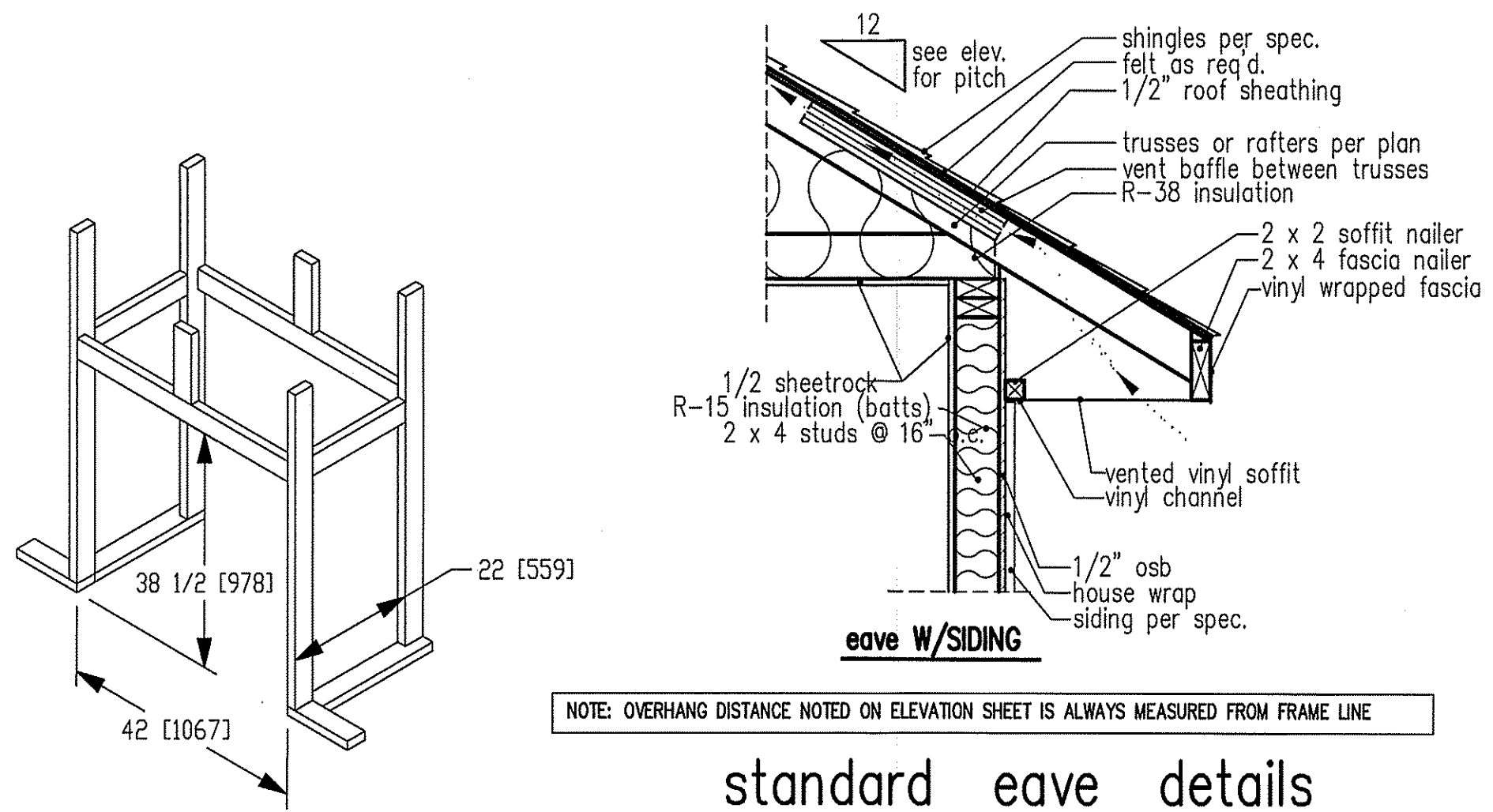
DATE:  
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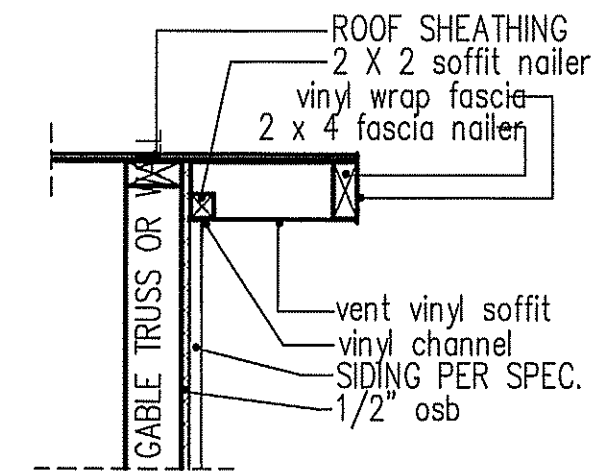
**EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
CLAYTON  
MBRM. RIGHT**

PLAN:  
SHEET NO.  
**5**



NOTE: OVERHANG DISTANCE NOTED ON ELEVATION SHEET IS ALWAYS MEASURED FROM FRAME LINE

**standard eave details**



**RAKE w/SIDING**

NOTE: OVERHANG DISTANCE NOTED ON ELEVATION SHEET IS ALWAYS MEASURED FROM FRAME LINE

TABLE R602.15  
MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

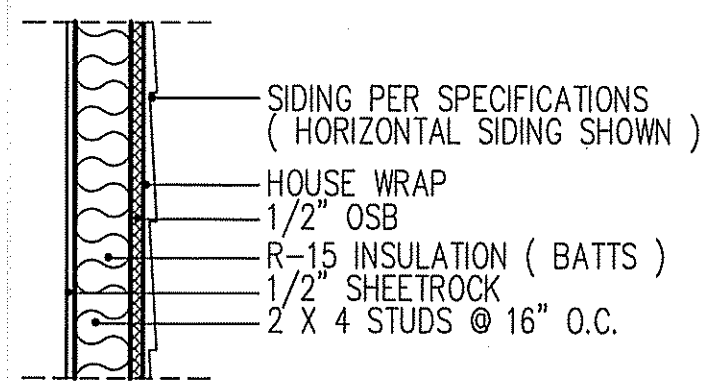
HEADER SPAN (feet)	MAX. STUD SPACING (Inches) [per Table R602.3(5)]	
	16	24
< 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

GIRDER AND HEADER SIZES AND JACK STUD REQUIREMENTS ON EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE TO COINCIDE WITH TABLE EXT.~R602.1 (1) AND INT.~R602.1 (2).

DIMENSIONS IN [ ] ARE MM

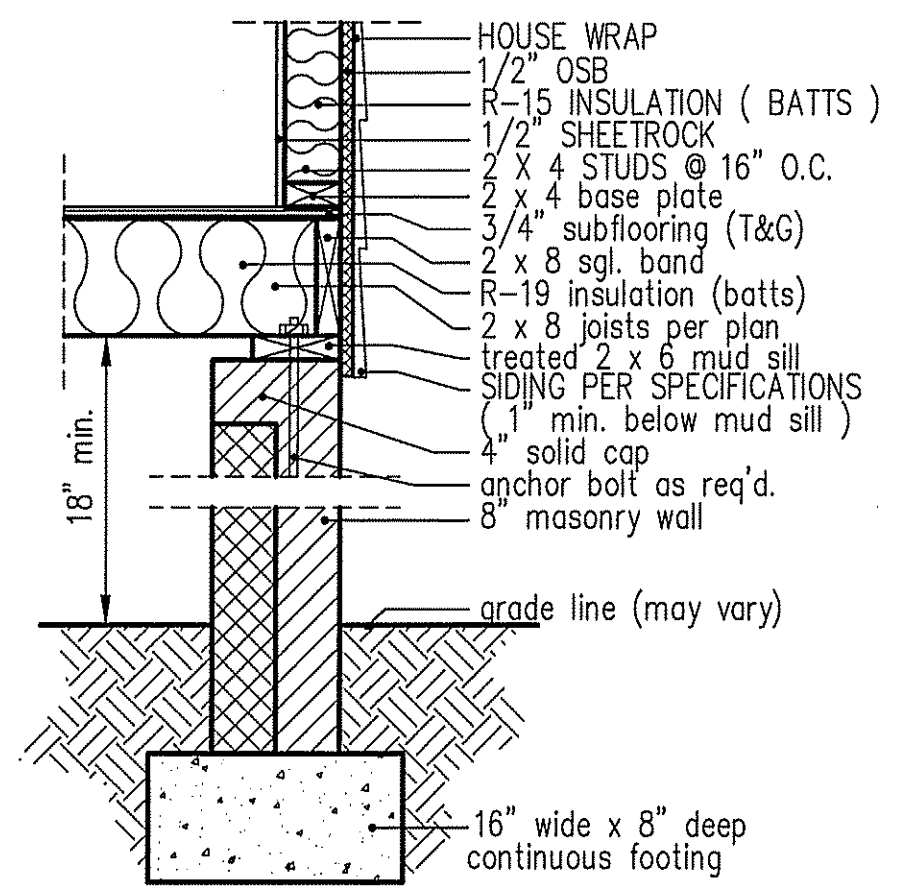
Model 6000-TR	Height		Front Width		Back Width		Depth		Glass Size	BTU Input
	Actual	Framing	Actual	Framing	Actual	Framing	Actual	Framing		
Inches	38	38-1/2	41	42	28-1/2	42	21-1/2	22		

Reference dimensions only. We recommend measuring individual units at installation.

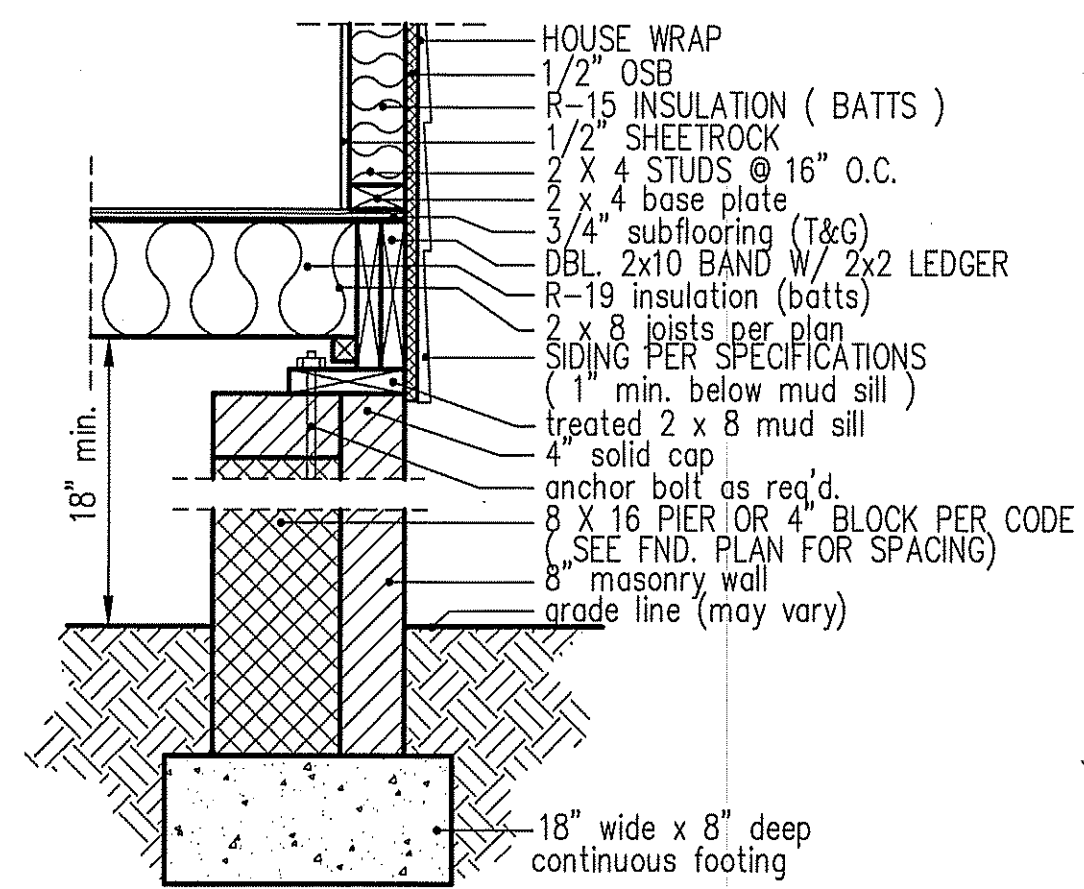


**WALL W/siding**

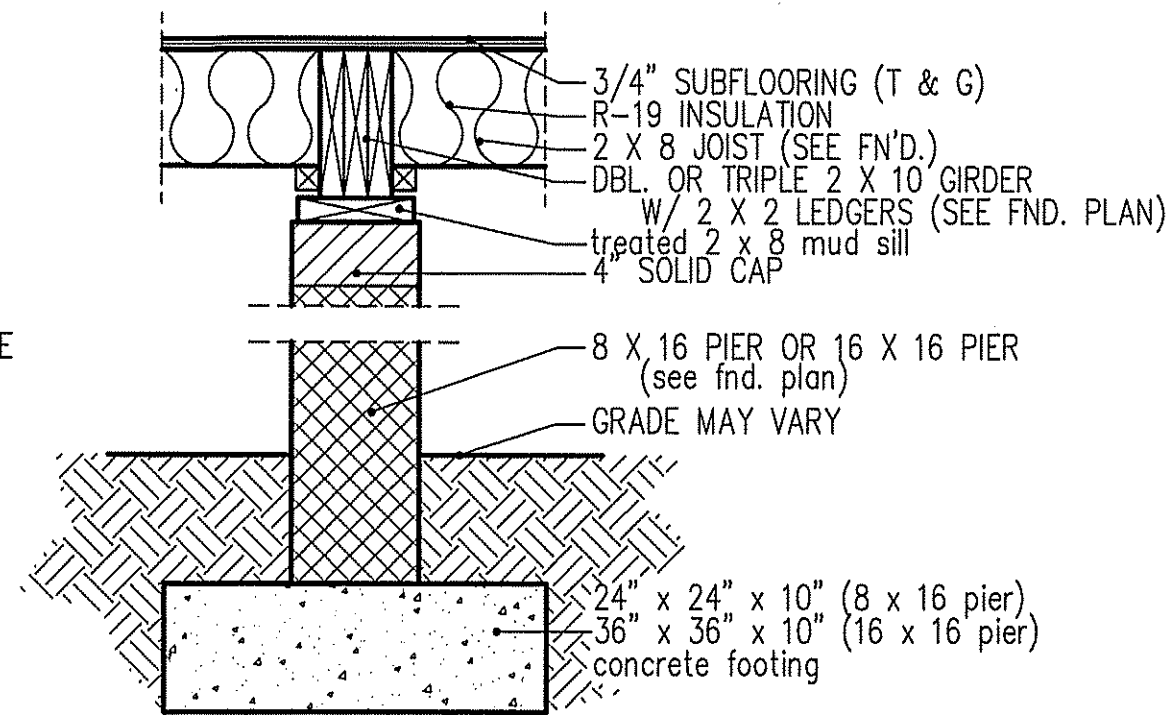
**intermediate wall details**



**8" BOX SILL FOUNDATION WALL**



**PIER and CURTAIN FOUNDATION WALL**

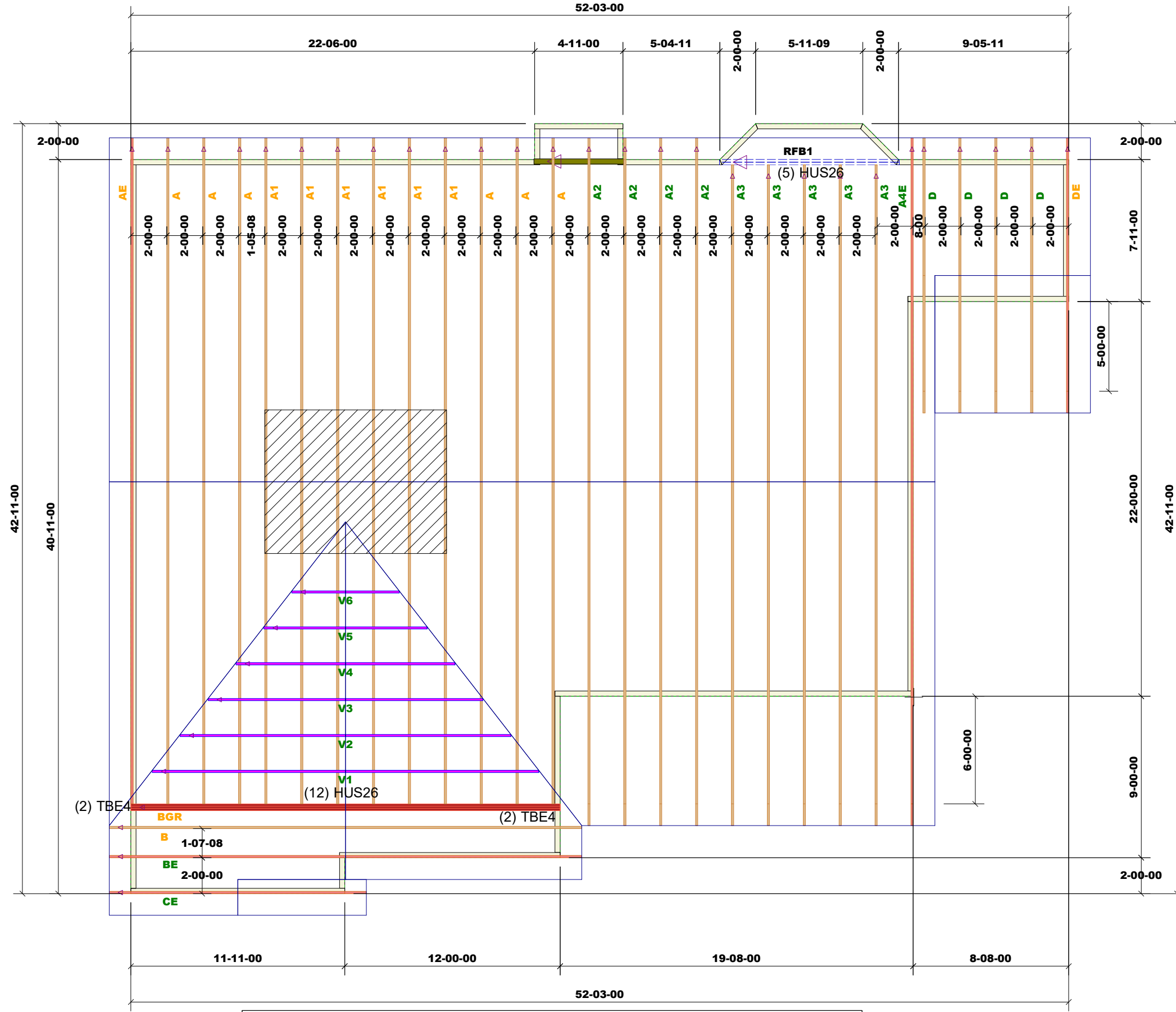


**PIER and GIRDER DETAIL**

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



DEDICATED TO QUALITY AND EXCELLENCE  
 200 EMMETT ROAD  
 DUNN, NORTH CAROLINA 28334  
 PHONE: 910-892-8400



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
RFB1	12-00-00	1-3/4" x 9-1/4" VERSA-LAM@ 2.0 3100 SP	2	2	MFD

**ROOFAREA: 2351**

1st Level Roof Area	2nd Level Roof Area
0	0

PROJECT: Freedom Solar Clayton Plan

CUSTOMER: FREEDOM CONSTRUCTION

MODEL: Clayton

QUOTE #: 2100795  
 PRINT DATE: 9/29/2021  
 DRAWN BY: Rodney Evans  
 SCALE: N.T.S

TOP LIVE LOAD: 20.0 lb/ft<sup>2</sup>  
 TOP DEAD LOAD: 10.0 lb/ft<sup>2</sup>  
 BOTTOM DEAD LOAD: 10.0 lb/ft<sup>2</sup>  
 WIND SPEED: 130 mph

GENERAL NOTES:  
 - DO NOT CUT OR MODIFY TRUSSES  
 - TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED  
 - REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.  
 - PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.