


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

APPROVED
 Limited building only review.
 Permit holder responsible for full compliance with the code.

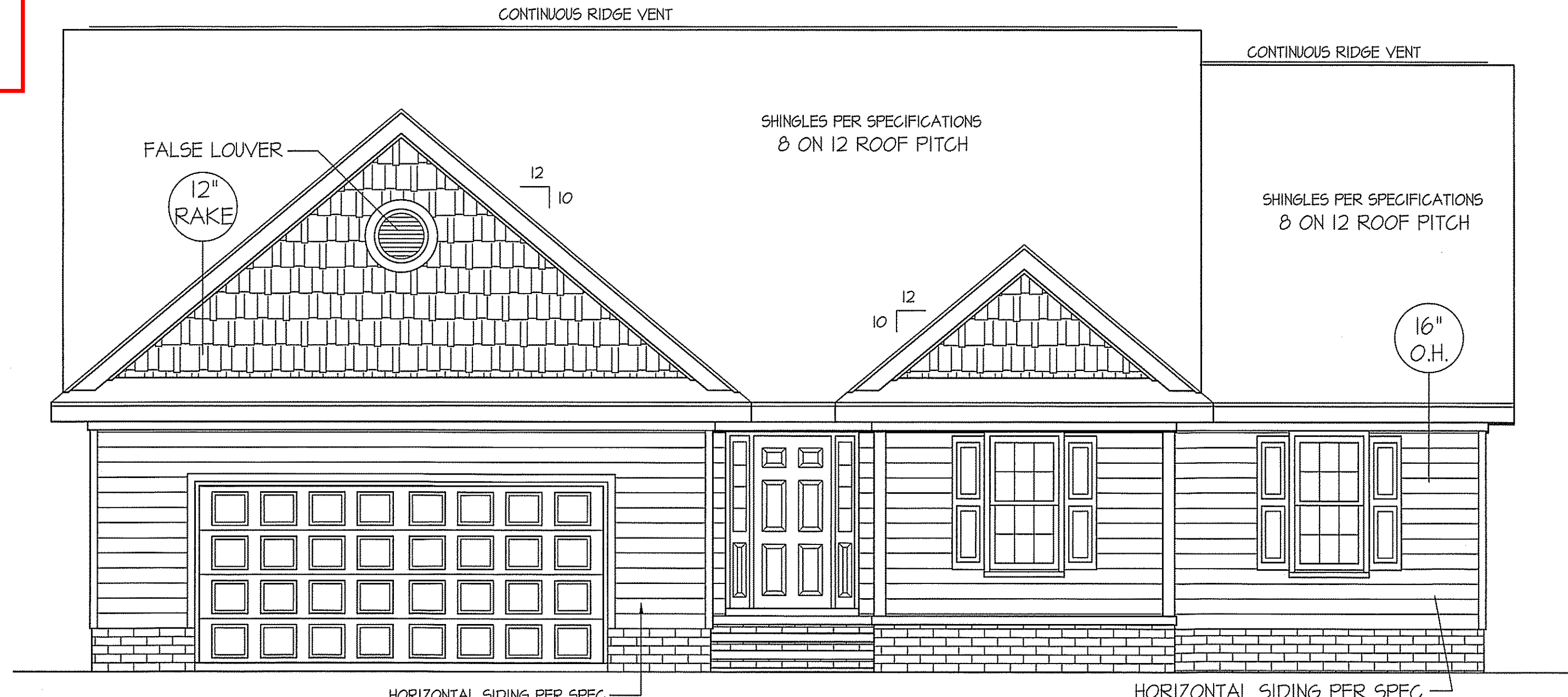
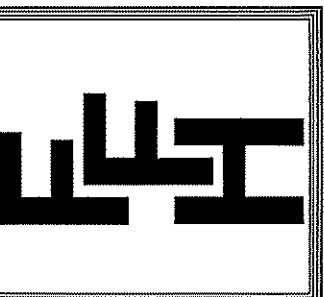
04/30/2020



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

DATE:
 OCT. 18, 2019

FREEDOM FAMILY HOMES
 P.O. BOX 608
 DUNN, N.C. - 28335
 O: (910) 892-1231 FAX: (910) 892-5680
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FRONT ELEVATION
 SCALE: 1/4" = 1'-0"

ROOF VENTILATION REQ'MTS.
 2510 ATTIC SQ. FT. / 300 = 8.37

PROVIDED ON PLAN
 97 L.F. RIDGE VENT = 18.19
 124 L.F. SOFFIT VENT = 7.75
 TOTAL = 25.94 S.F. FREE NET AREA

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

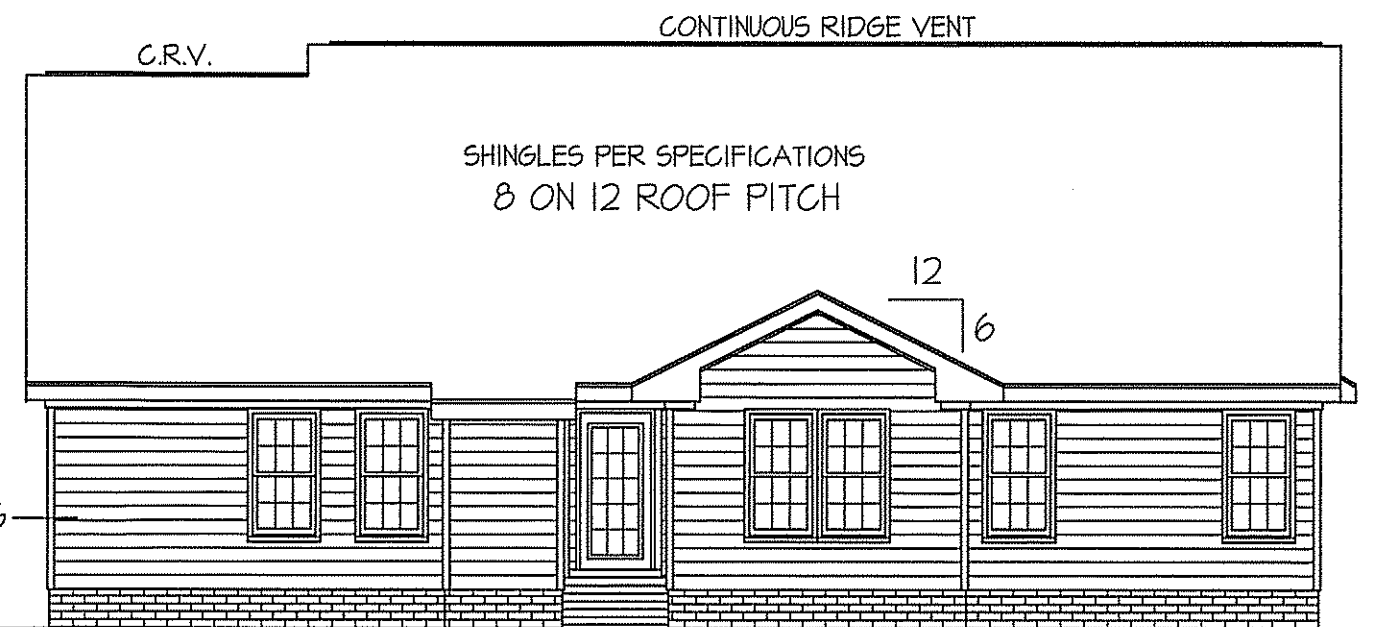
COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

INSULATION and FENESTRATION REQUIREMENTS

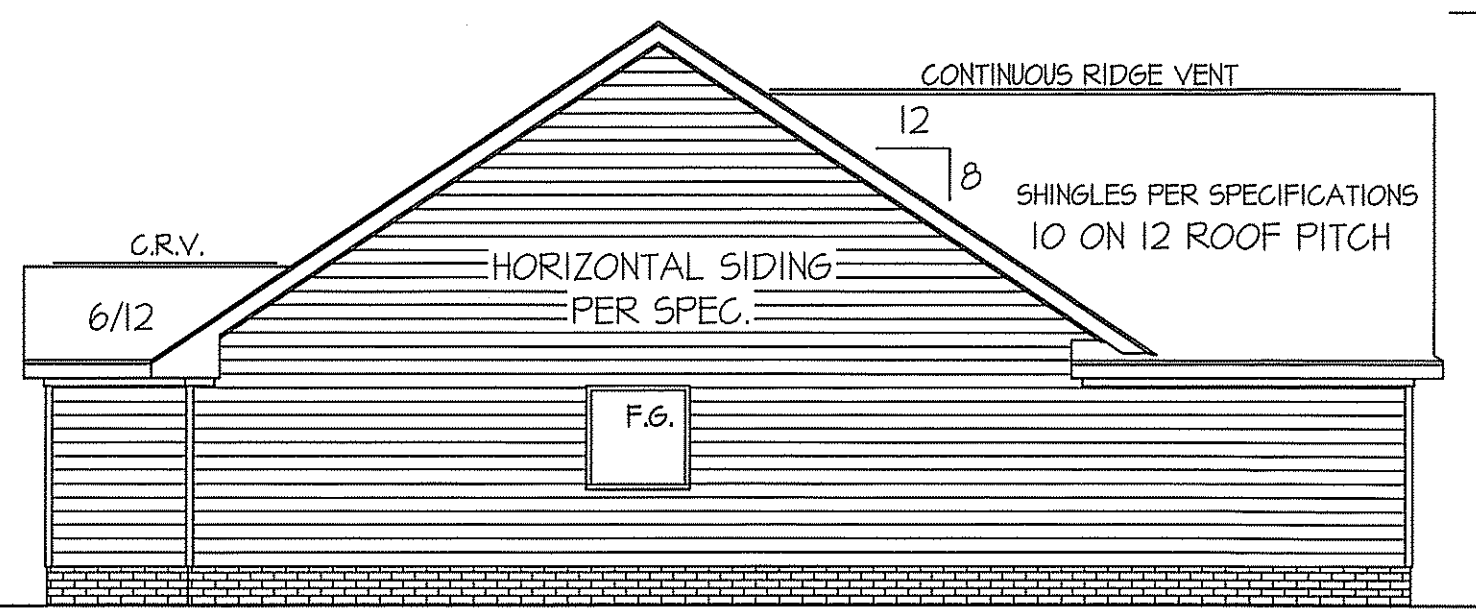
CLIMATE ZONE	ZONE-3	ZONE-4
FENESTRATION U-FACTOR	0.35	0.35
GLAZED FENESTRATION SHGC	0.30	0.30
MINIMUM CEILING R-VALUE	R-38	R-38
MINIMUM WALL R-VALUE	R-15, 13+2.5	R-15, 13+2.5
MINIMUM FLOOR R-VALUE	R-19	R-19
MIN. CRAWL SPACE WALL R-VALUE	5/8	10/15
MIN. SLAB R-VALUE	0	R-10

PROVIDE STEPS AS REQUIRED
 GRADE MAY VARY - BUILDER TO VERIFY

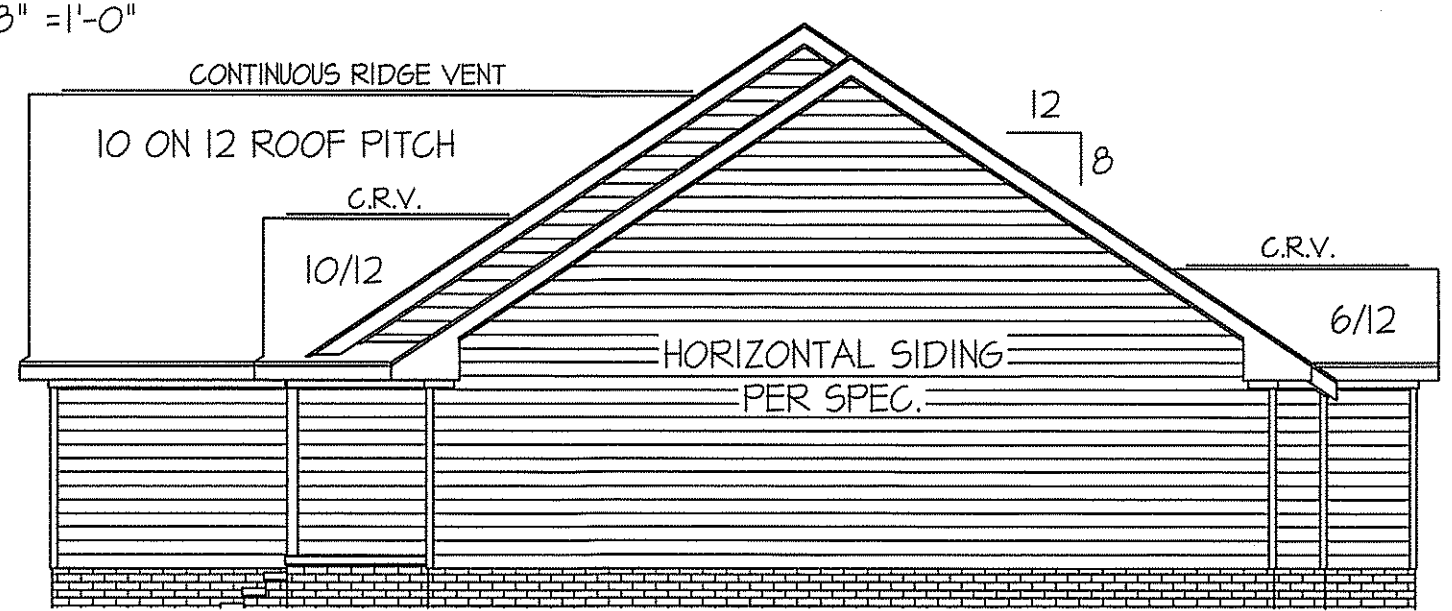
ALL EXTERIOR WALLS TO BE SHEATHED WITH CS-WSP (1/16" OSB) IN ACCORDANCE WITH SECTION R602.10.3 UNLESS OTHERWISE NOTED.



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



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



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

MAIN COMPUTER FILE: FFH - WILSON - DEC - 2019

EXCLUSIVE PLAN FOR
 FREEDOM FAMILY HOMES
WILSON ~ LEFT

SHEET NO.
1

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

COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

HEADER SCHEDULE

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 4.25 LVL	3

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

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).

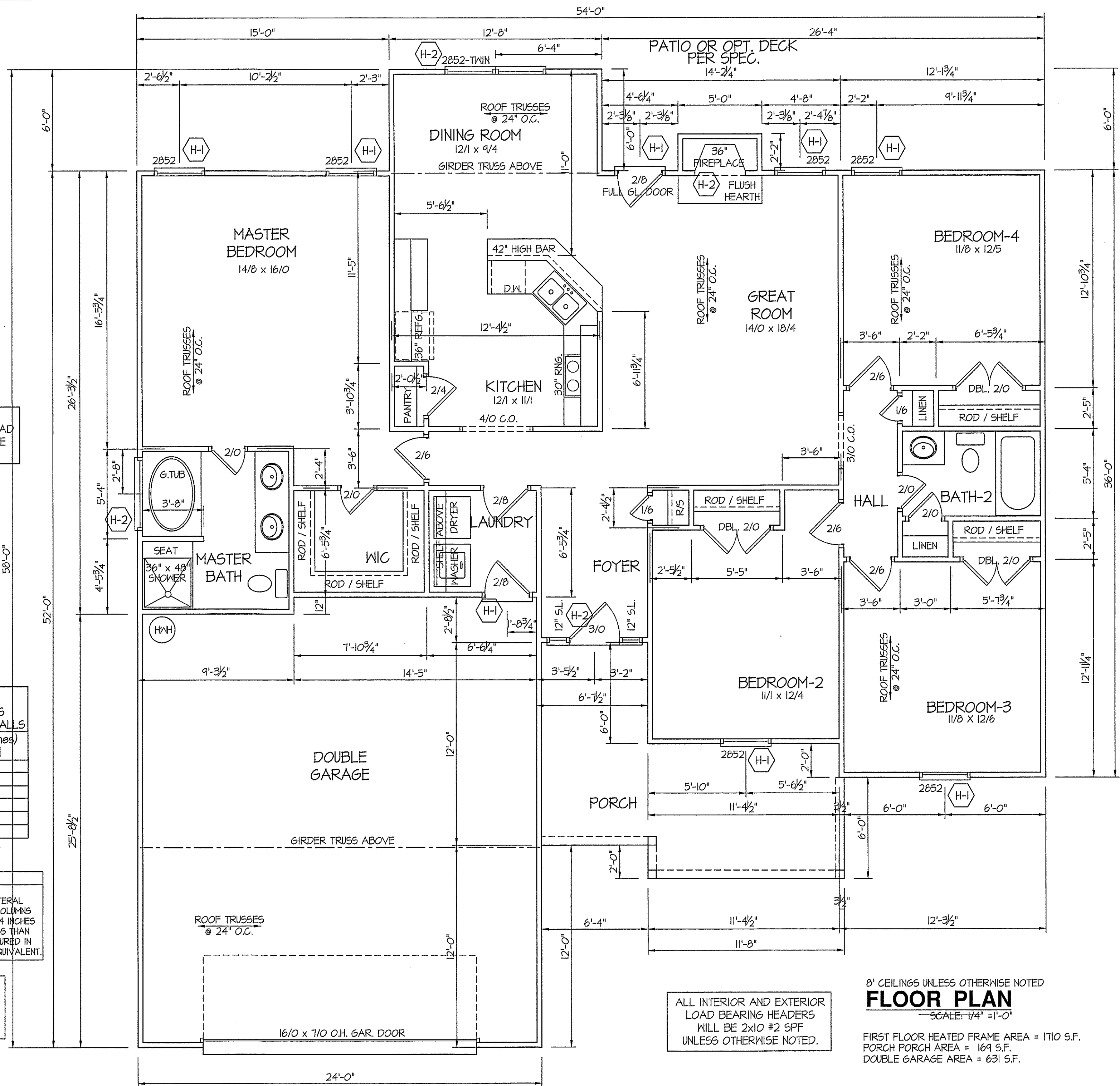
TABLE R602.7.5
MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

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

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.

GARAGE DOOR WALL TO BE PORTAL FRAME CONSTRUCTION, COMPLYING SECTION R602.10.1 AND FIGURE~R602.10.1 METHOD PFG

MAIN COMPUTER FILE: FFH - WILSON - DEC - 2014



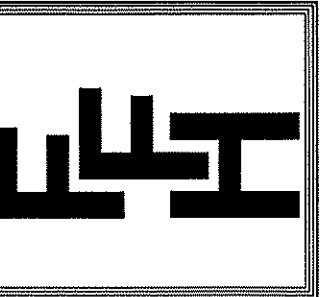
ALL INTERIOR AND EXTERIOR LOAD BEARING HEADERS WILL BE 2x10 #2 SFP UNLESS OTHERWISE NOTED.

8' CEILINGS UNLESS OTHERWISE NOTED
FLOOR PLAN
SCALE: 1/4" = 1'-0"

FIRST FLOOR HEATED FRAME AREA = 1710 S.F.
PORCH PORCH AREA = 169 S.F.
DOUBLE GARAGE AREA = 631 S.F.

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EXCLUSIVE PLAN FOR
FREEDOM FAMILY HOMES
WILSON~LEFT

PLAN:
SHEET NO.
2

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

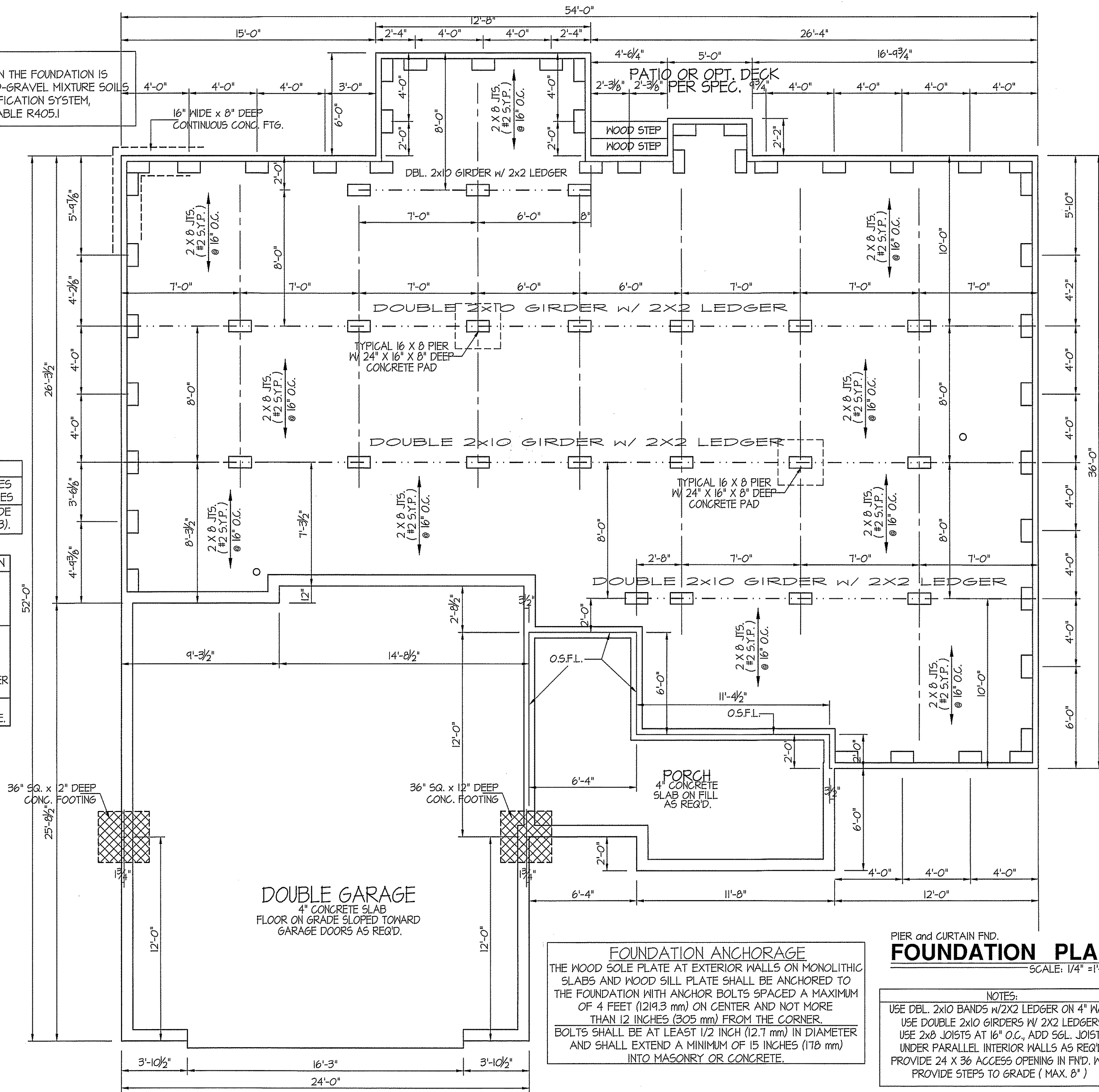
ALL JOISTS AND GIRDERS WILL BE #2 S.Y.P.
 JOIST SPANS TO COINCIDE WITH REVISED TABLES R502.3.1(1) and R502.3.1(2) FROM 2018 NCR CODES
 GIRDER SPANS AND HEADER SPANS TO COINCIDE WITH TABLE R602.7(1), R602.7(2) AND R602.7(3).

FOUNDATION VENTILATION INFORMATION

(MIN. NET AREA OF VENT. REQ'D. = 1/150)
 1710 S.F. (CRAWL) x .096 = 1641.6 S.I.
 USE 26" WITTEN AUTO. VENT. FN'D. VENTS @ 65 S.I. FREE NET AREA or EQUIVALENT.

(MIN. NET AREA CAN BE REDUCED TO 1/1500)
 1710 S.F. (CRAWL) x .096 = 1641.6 S.I.
 USE 3" WITTEN AUTO. VENT. FN'D. 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.



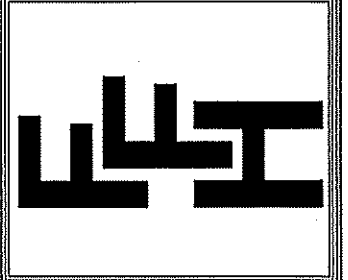
FOUNDATION ANCHORAGE
 THE WOOD SOLE PLATE AT EXTERIOR WALLS ON MONOLITHIC SLABS AND WOOD SILL PLATE SHALL BE ANCHORED TO THE FOUNDATION WITH ANCHOR BOLTS SPACED A MAXIMUM OF 4 FEET (1219.3 mm) ON CENTER AND NOT MORE THAN 12 INCHES (305 mm) FROM THE CORNER. BOLTS SHALL BE AT LEAST 1/2 INCH (12.7 mm) IN DIAMETER AND SHALL EXTEND A MINIMUM OF 15 INCHES (178 mm) INTO MASONRY OR CONCRETE.

PIER and CURTAIN FND.
FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"

NOTES:
 USE DBL. 2x10 BANDS w/2x2 LEDGER ON 4" WALLS
 USE DOUBLE 2x10 GIRDERS W/ 2x2 LEDGERS
 USE 2x8 JOISTS AT 16" O.C., ADD 56L JOIST UNDER PARALLEL INTERIOR WALLS AS REQ'D.
 PROVIDE 24 X 36 ACCESS OPENING IN FN'D. WALL.
 PROVIDE STEPS TO GRADE (MAX. 8")

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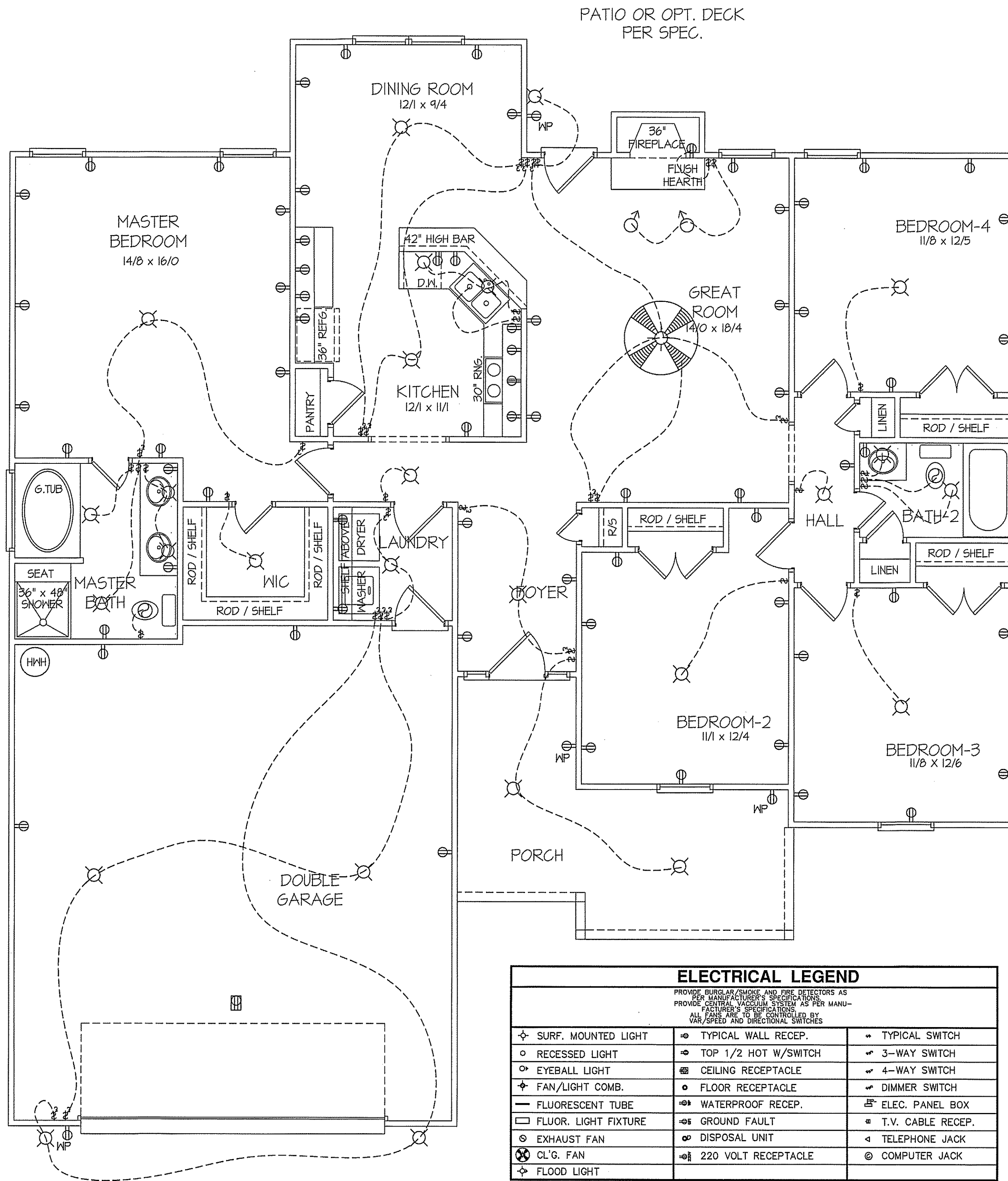


EXCLUSIVE PLAN FOR
 FREEDOM FAMILY HOMES
WILSON ~ LEFT

PLAN:

SHEET NO.
3

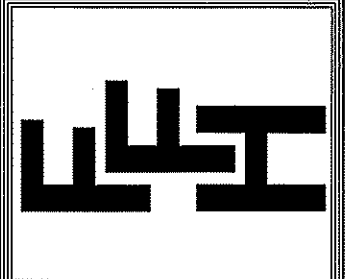
MAIN COMPUTER FILE: FFH - WILSON - DEC - 2019



PATIO OR OPT. DECK
PER SPEC.

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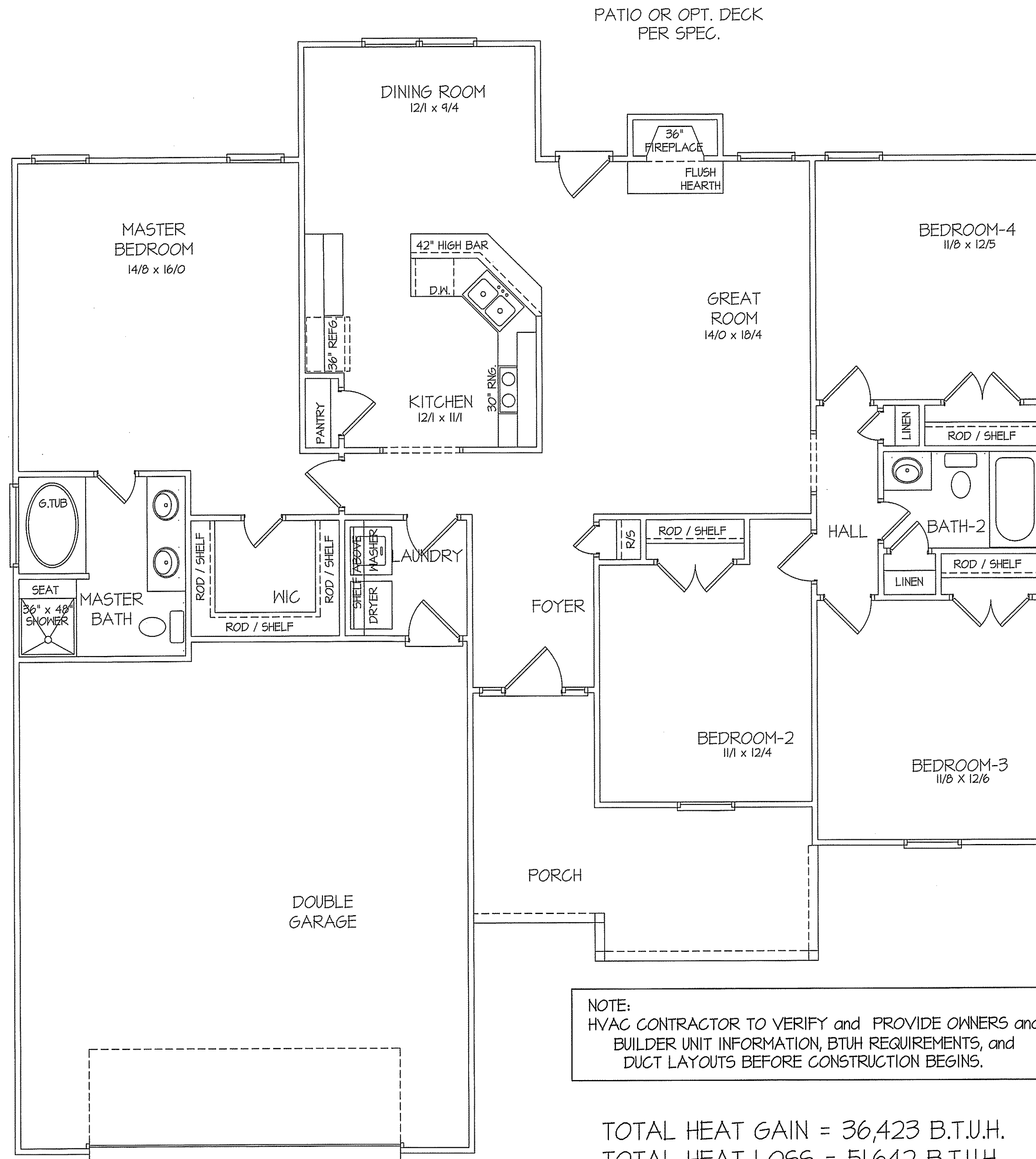
EXCLUSIVE PLAN FOR
FREEDOM FAMILY HOMES
WILSON ~ LEFT

SHEET NO.
4

ELECTRICAL LEGEND		
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		
⊕ 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		

8' CL.G. UNLESS OTHERWISE NOTE
ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

FIRST FLOOR HEATED FRAME AREA = 1710 S.F.
PORCH PORCH AREA = 169 S.F.
DOUBLE GARAGE AREA = 631 S.F.



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

TOTAL HEAT GAIN = 36,423 B.T.U.H.
 TOTAL HEAT LOSS = 51,642 B.T.U.H.

8' CEILINGS UNLESS OTHERWISE NOTED

**HVAC
 FLOOR PLAN**
 SCALE: 1/4" = 1'-0"

FIRST FLOOR HEATED FRAME AREA = 1710 S.F.
 PORCH PORCH AREA = 169 S.F.
 DOUBLE GARAGE AREA = 631 S.F.

DATE:

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**EXCLUSIVE PLAN FOR
 FREEDOM FAMILY HOMES
 WILSON~LEFT**

PLAN:

SHEET NO.

5

DATE:

OCT. 18, 2019

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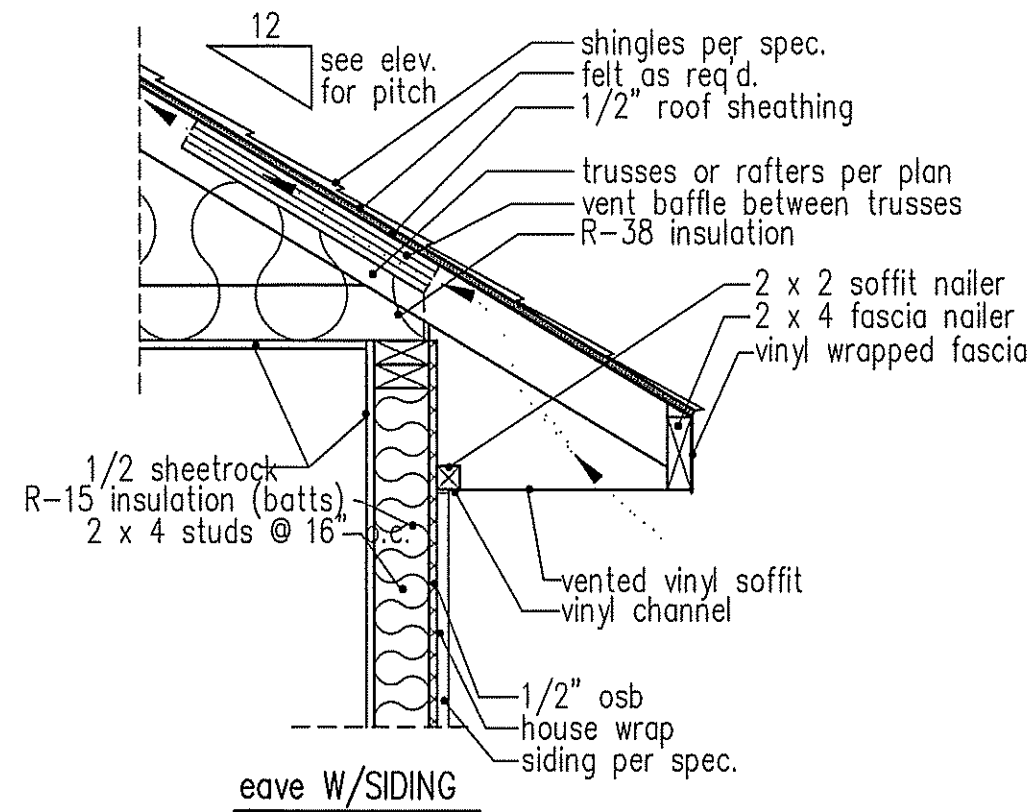
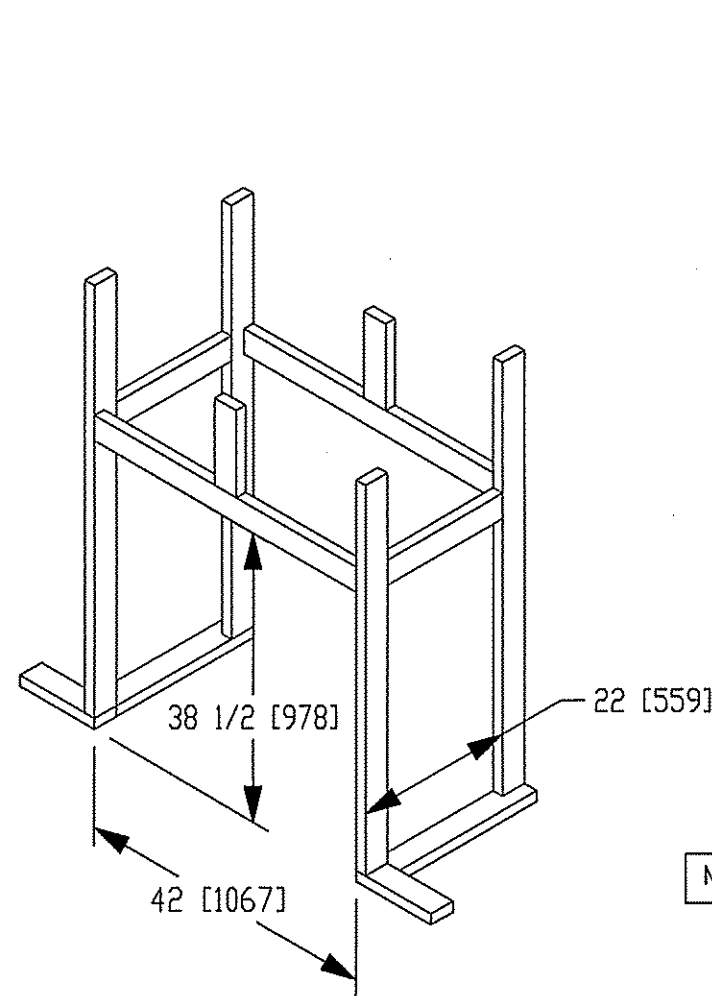


**EXCLUSIVE PLAN FOR
 FREEDOM FAMILY HOMES
 WILSON**

PLAN:

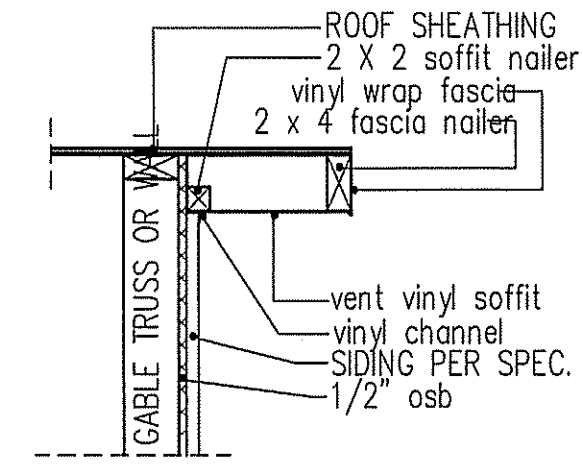
SHEET NO.

6



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 R602.7.5
 MINIMUM NUMBER OF FULL HEIGHT STUDS
 AT EACH END OF HEADERS IN EXTERIOR WALLS

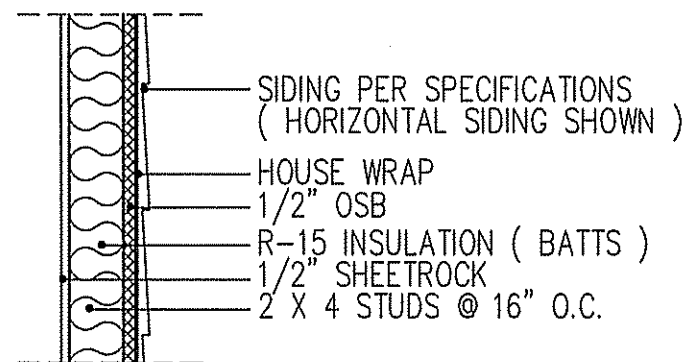
HEADER SPAN (feet)	MAX. STUD SPACING (Inches) [per Table R602.3(5)]	
	16	24
< 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

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

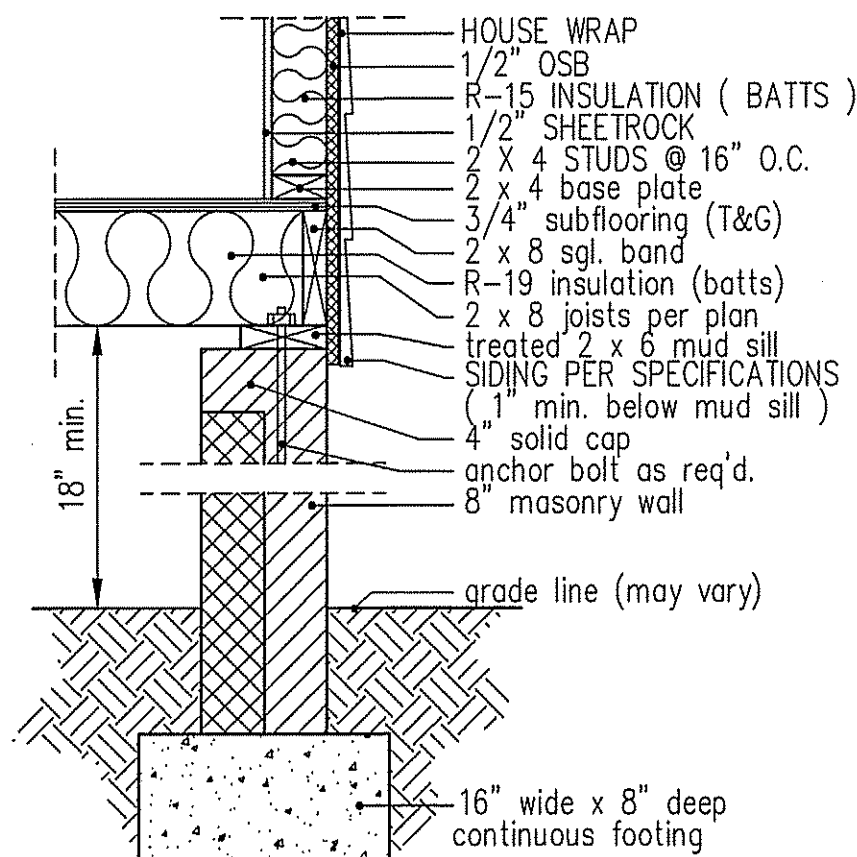
Model 6000-TR	Height		Front Width		Back Width		Depth		Glass Size	BTU Input
	Actual	Framing	Actual	Framing	Actual	Framing	Actual	Framing		
Inches	38	38-1/2	41	42	28-1/2	42	21-1/2	22		

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

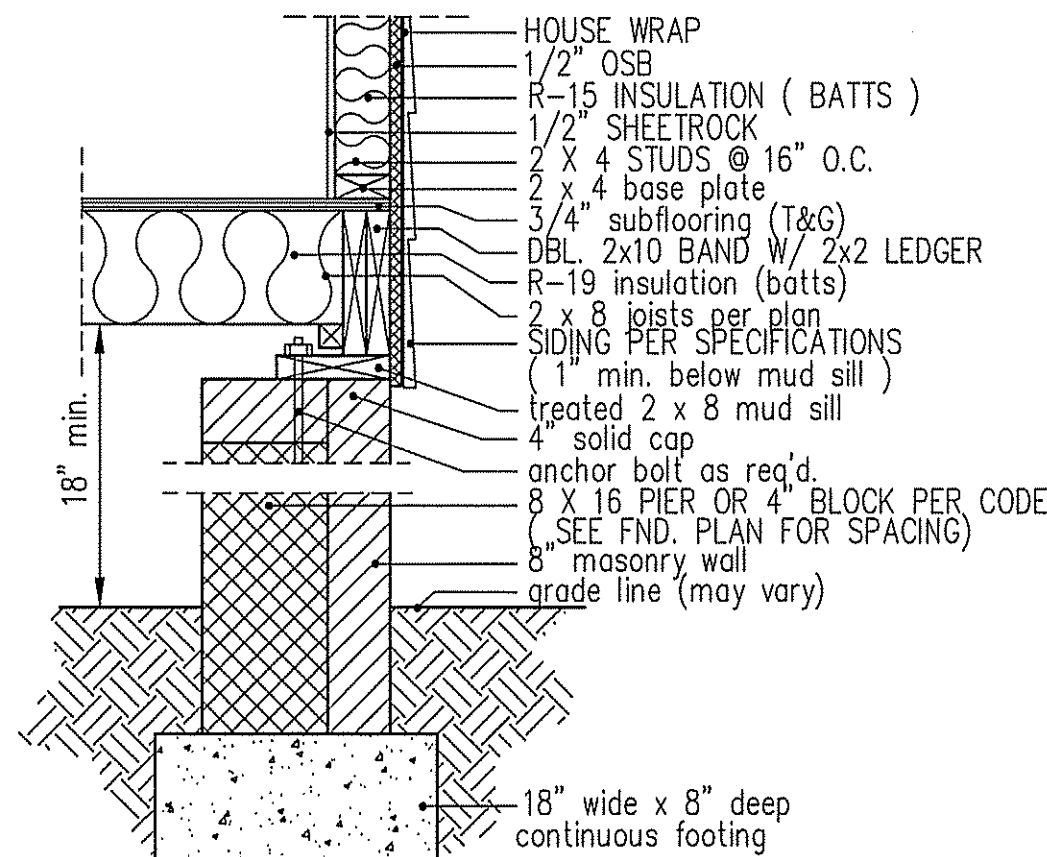


WALL w/siding

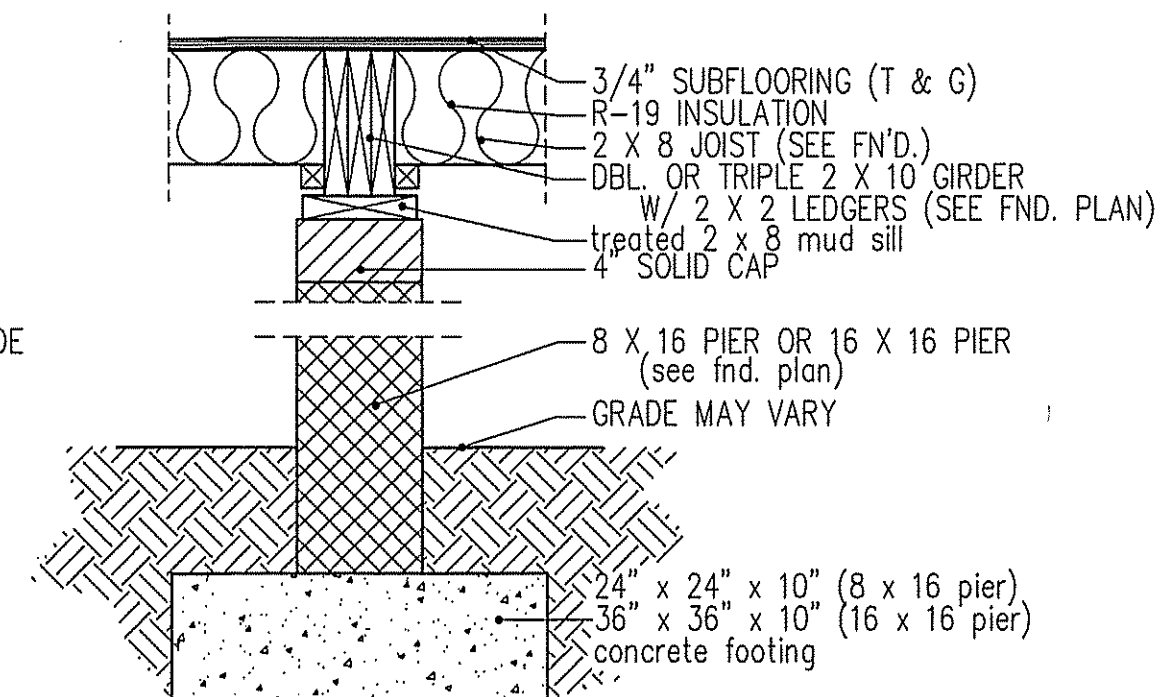
intermediate wall details



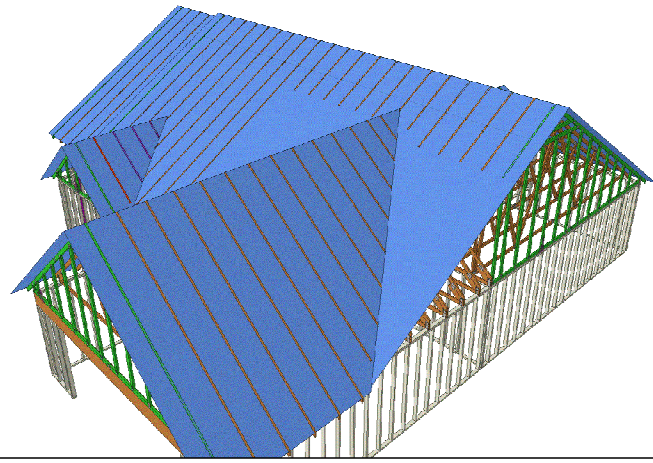
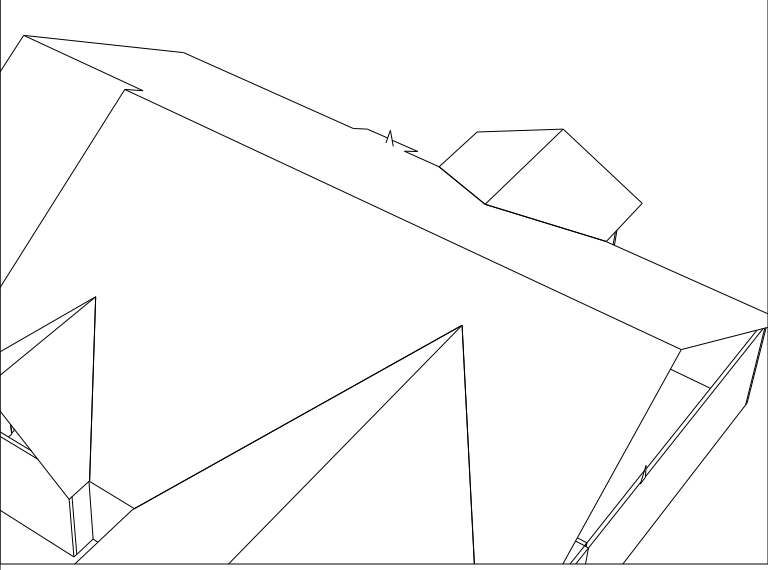
8" BOX SILL
 FOUNDATION WALL



PIER and CURTAIN
 FOUNDATION WALL

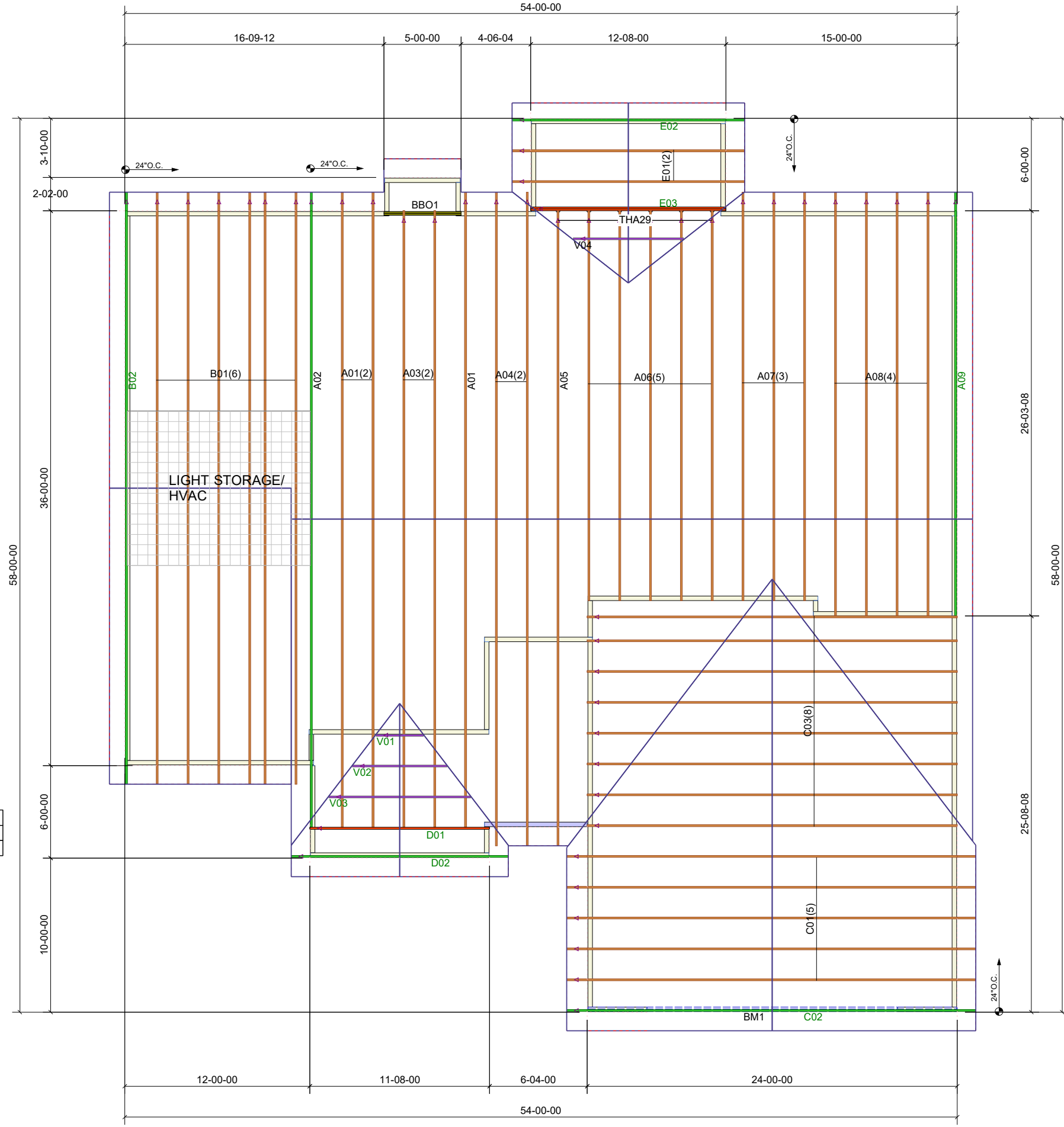


PIER and GIRDER
 DETAIL



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	24-00-00	1-3/4X14 LP-LVL 2900Fb-2.0E	2	2	MFD

Truss Connector Total List		
Manuf	Product	Qty
Simpson	THA29	6



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY:

DATE:

Job #: 200607RT1

Customer: GARRIS EVANS LUMBER CO

Site Address:

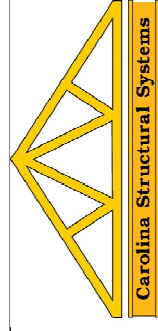
City, ST, ZIP: ,

Plan: FREEDEOM FAMILY HOMES - WILSON

Date: 4/20/2020

Sales Rep: JSL

Designer: EFT



Carolina Structural Systems

Roof Trusses • Floor Trusses • EWP

Carolina Structural Systems

P.O. Box 157, Ether, NC 27247

225 Frame Shop Rd., Star, NC 27356

910-491-9004

