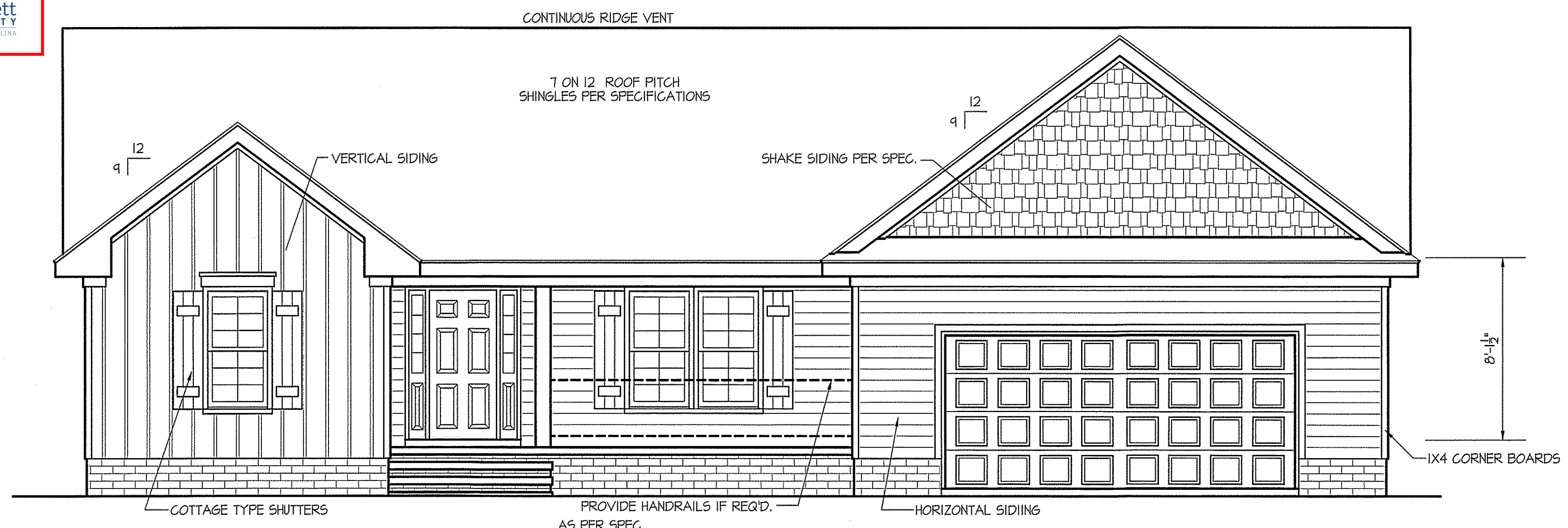


NOTICE TO CONTRACTOR  
 All construction must comply with current NC Building Codes and is subject to field inspection and verification.  
 APPROVED  
 Limited liability only unless  
 stated otherwise. Architect is not responsible for  
 full compliance with the code.  
 02/09/2021  
 HARNETT COUNTY  
 NORTH CAROLINA

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

DATE:  
 APRIL 26, 2019

**FREEDOM FAMILY HOMES**  
 P.O. BOX 608  
 DUNN, N.C. - 28335  
 O: (910) 892-1231 FAX: (910) 892-5680  
 ©2019, FREEDOM FAMILY HOMES

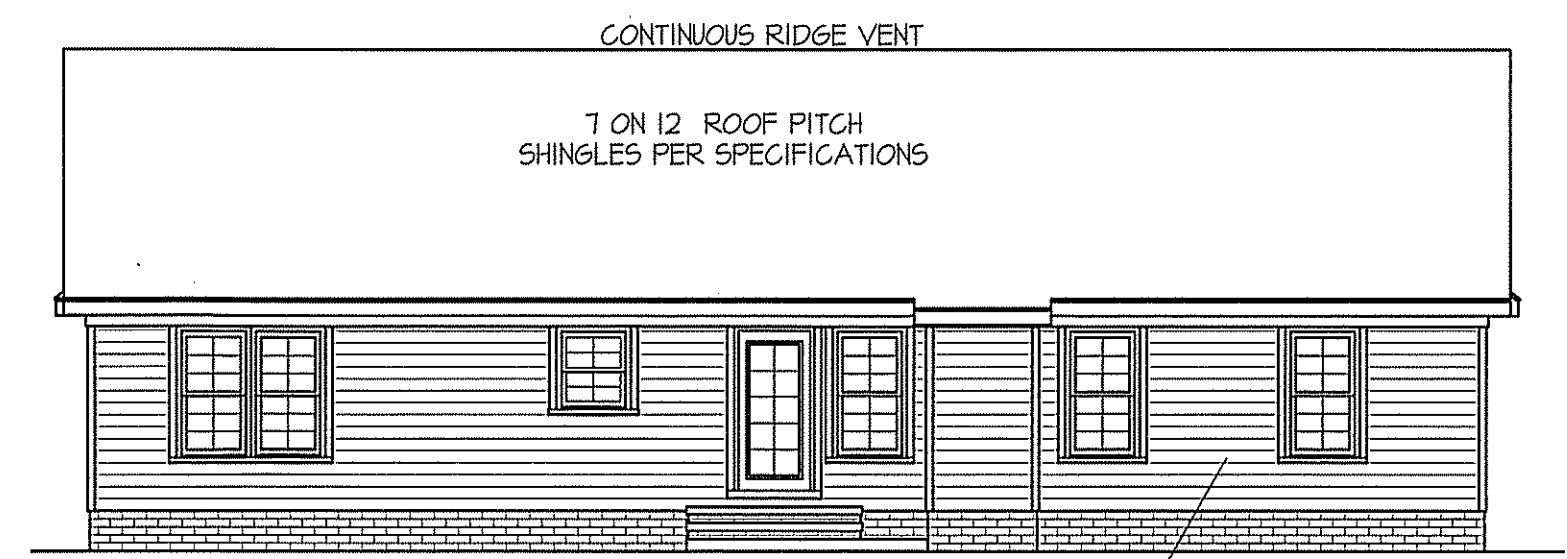


**FRONT ELEVATION**  
 SCALE: 1/4" = 1'-0"

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

COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

ROOF VENTILATION REQ'MTS.  
 2357 ATTIC SQ. FT. / 300 = 7.85  
 PROVIDED ON PLAN  
 95 L.F. RIDGE VENT = 17.81  
 133 L.F. SOFFIT VENT = 8.31  
 TOTAL = 26.12 S.F. FREE NET AREA



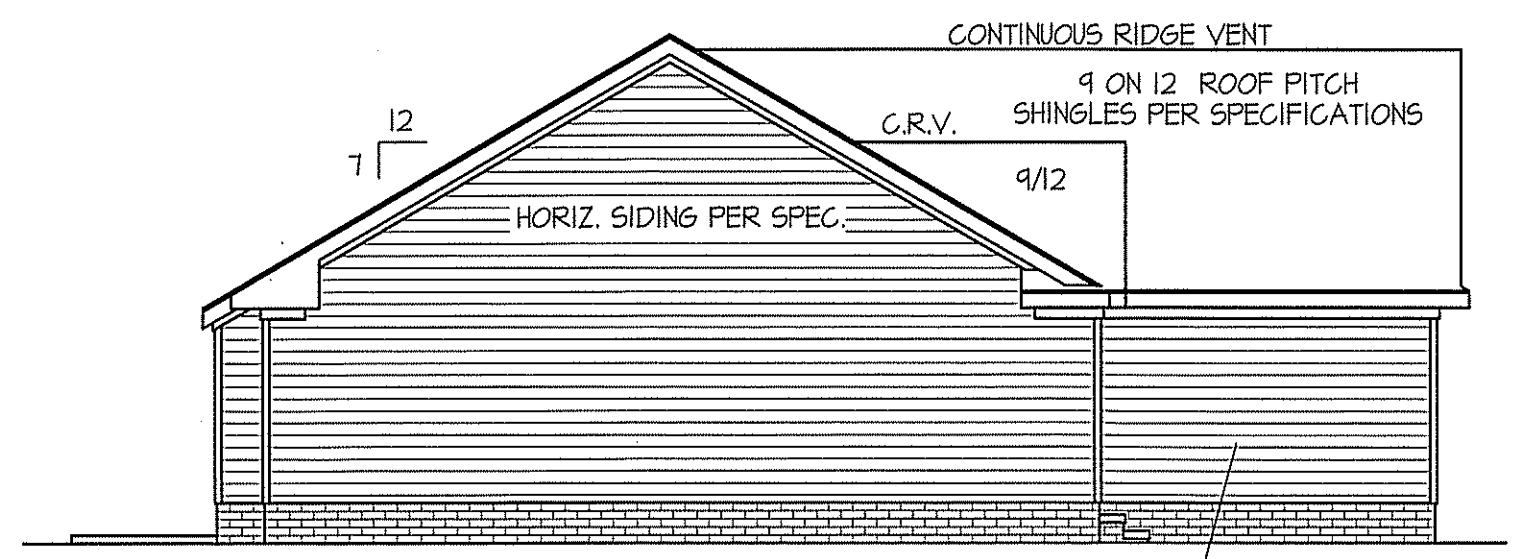
**REAR ELEVATION**  
 SCALE: 1/8" = 1'-0"

INSULATION and FENESTRATION REQUIREMENTS

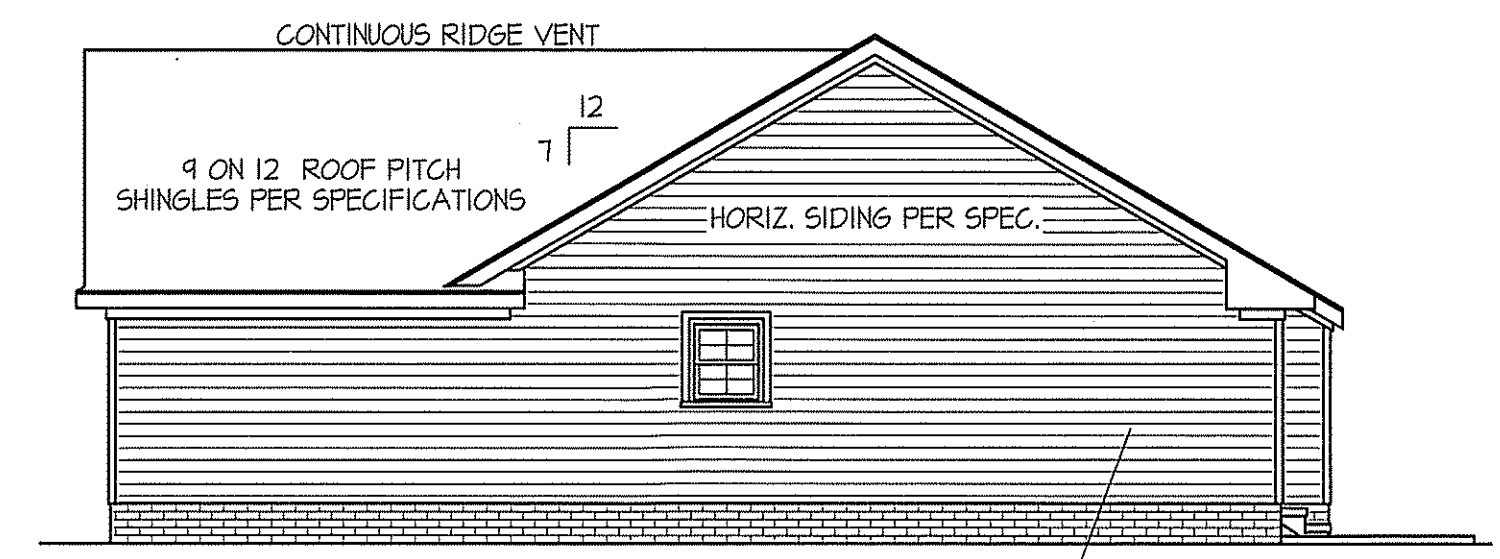
CLIMATE ZONE	ZONE-3	ZONE-4
FENESTRATION U-FACTOR	0.35	0.35
GLAZED FENESTRATION SHGC	0.30	0.30
MINIMUM CEILING R-VALUE	R-30	R-30
MINIMUM WALL R-VALUE	R-15, I3+2.5	R-15, I3+2.5
MINIMUM FLOOR R-VALUE	R-19	R-19
MIN. CRAWL SPACE WALL R-VALUE	5/13	10/15
MIN. SLAB R-VALUE	0	R-10

PROVIDE STEPS AS REQUIRED  
 GRADE MAY VARY - BUILDER TO VERIFY

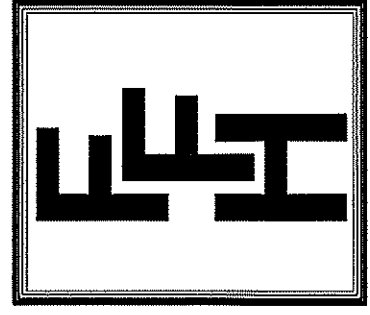
ALL EXTERIOR WALLS TO BE SHEATHED WITH CS-WSP (1/16" OSB) IN ACCORDANCE WITH SECTION R602.10.3 UNLESS OTHERWISE NOTED.



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



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



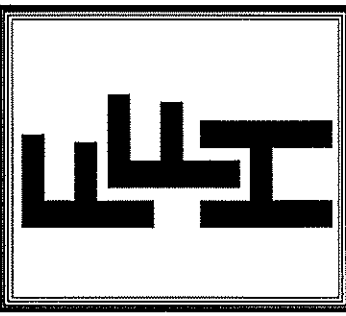
EXCLUSIVE PLAN FOR  
 FREEDOM FAMILY HOMES  
**BENSON**  
 PLAN:

SHEET NO.  
**1**

WIND ZONES (PER TABLE R301.2(4))	
COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

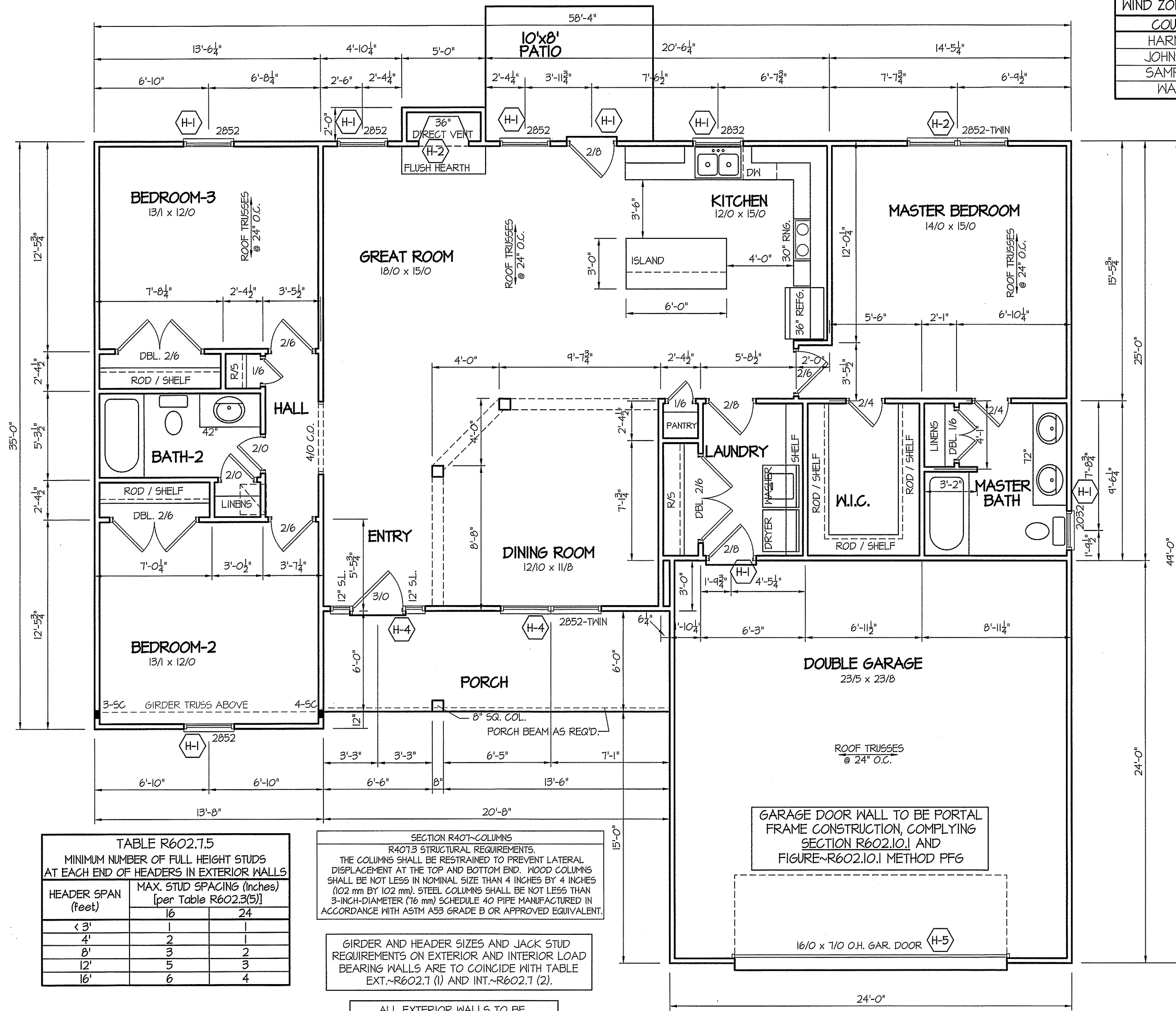
DATE:  
APRIL 26, 2019

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EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
**BENSON**

SHEET NO.  
**2**



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

HEADER SCHEDULE		
JACKS	SIZE	SYMBOL #
1	(2) 2x10	H-1
2	(2) 2x10	H-2
2	(2) 2x8	H-3
2	(2) 3/4" x 9 1/4" LVL	H-4
3	(2) 3/4" x 11 7/8" LVL	H-5

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)]	
< 3'	16	24
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.

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).

ALL EXTERIOR WALLS TO BE SHEATHED WITH C5-W5P (1/16" OSB) IN ACCORDANCE WITH SECTION R602.10.3 UNLESS OTHERWISE NOTED.

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

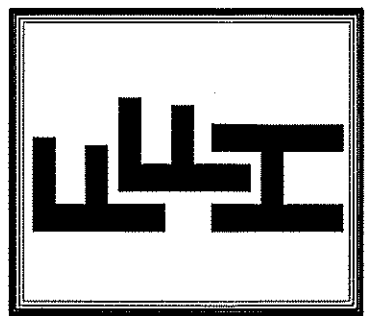
8' CEILINGS  
**FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
1658 SQUARE FEET - HEATED (FRAME)



COMPUTER FILE: BENSON 2018 UPDATED - APRIL-2019

DATE:  
APRIL 26, 2019

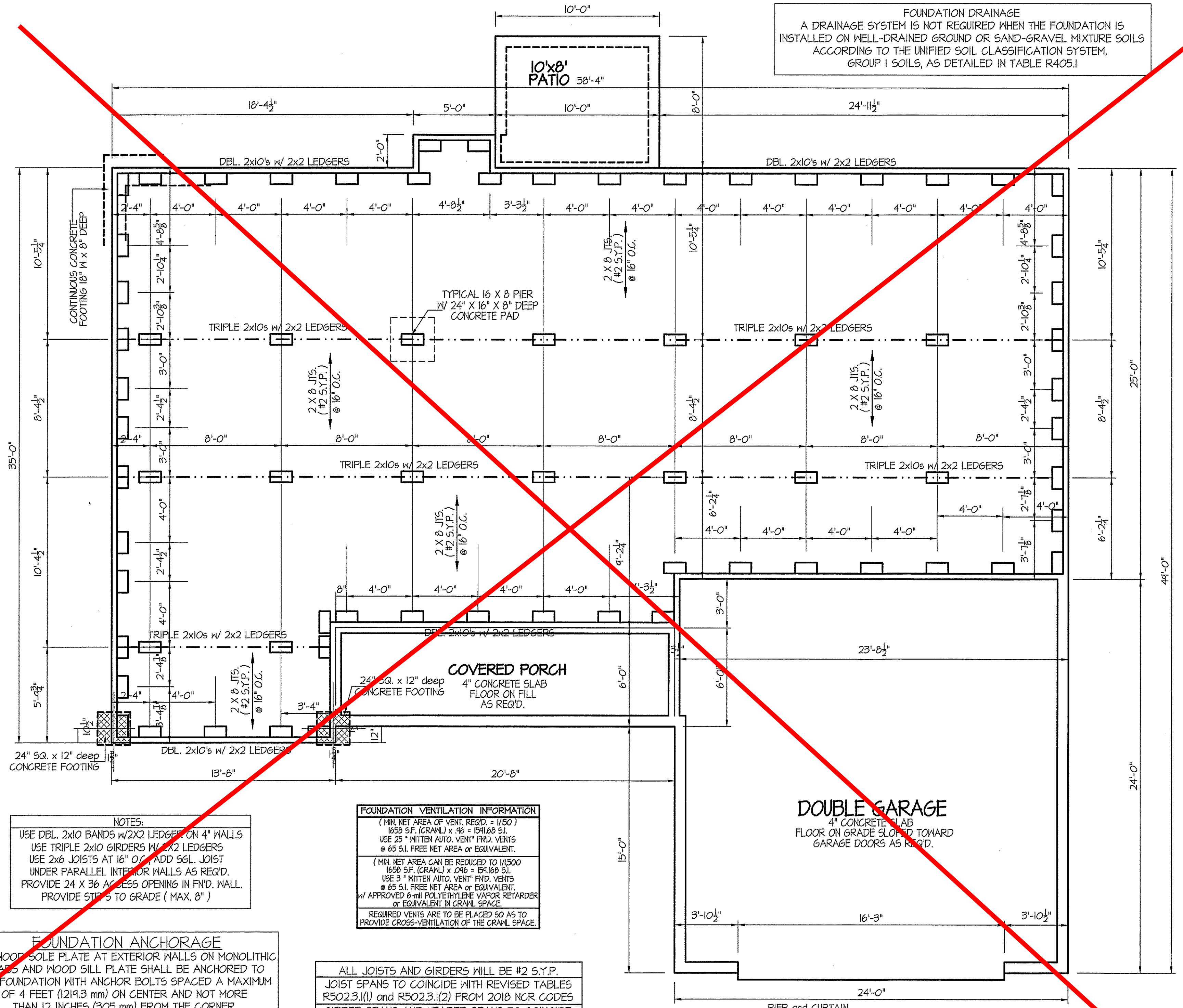
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EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
**BENSON**  
PLAN:

SHEET NO.  
**3**

**FOUNDATION DRAINAGE**  
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 DBL. 2x10 BANDS w/2x2 LEDGER ON 4" WALLS  
USE TRIPLE 2x10 GIRDERs w/ 2x2 LEDGERS  
USE 2x6 JOISTS AT 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")

**FOUNDATION VENTILATION INFORMATION**  
(MIN. NET AREA OF VENT. REQ'D. = 1/150)  
1658 S.F. (CRAWL) x .16 = 1541.68 S.I.  
USE 25" MITTEN AUTO. VENT. FND. VENTS  
@ 65 S.I. FREE NET AREA OR EQUIVALENT.  
(MIN. NET AREA CAN BE REDUCED TO 1/1500)  
1658 S.F. (CRAWL) x .016 = 1541.68 S.I.  
USE 3" MITTEN 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.

**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  
INTO MASONRY OR CONCRETE.

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(1), R602.7.2) AND R602.7(3).

PIER and CURTAIN  
**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"  
1658 SQUARE FEET - HEATED (FRAME)

DATE:  
APRIL 26, 2019

**FREEDOM FAMILY HOMES**  
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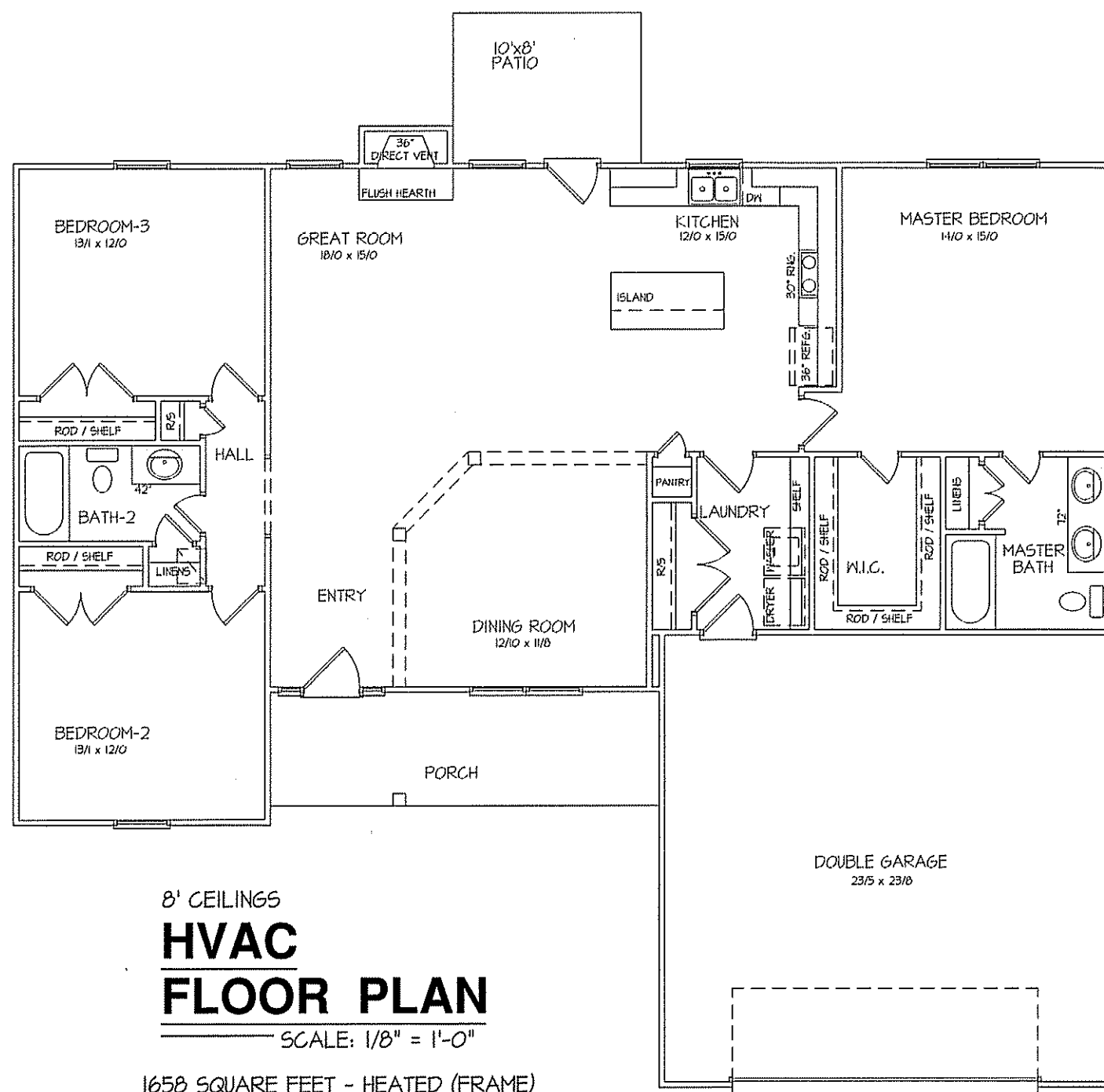


EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
**BENSON**

PLAN:

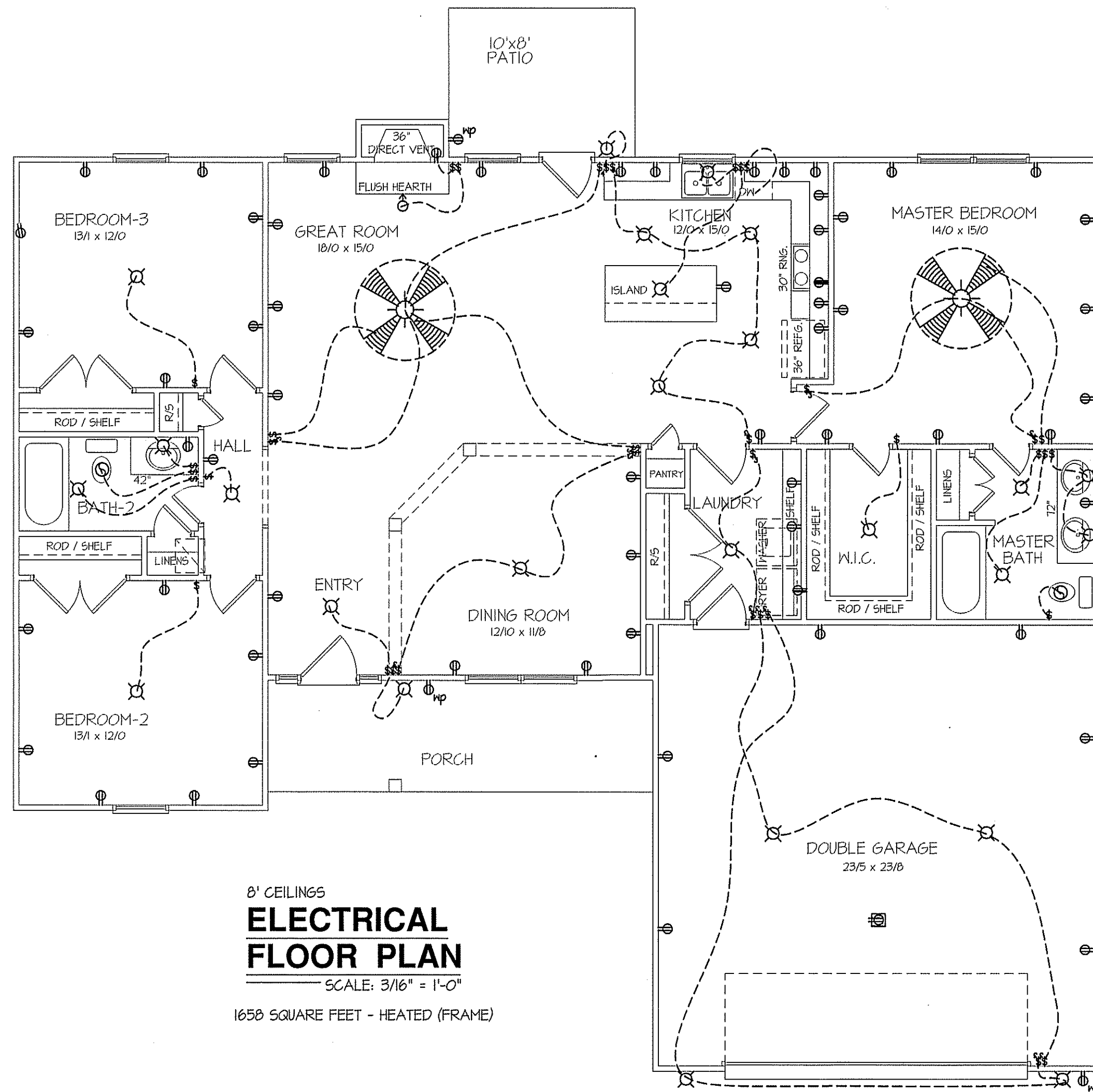
SHEET NO.

**4**



TOTAL HEAT GAIN = 35,150 B.T.U.H.  
TOTAL HEAT LOSS = 51,895 B.T.U.H.

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



**ELECTRICAL LEGEND**

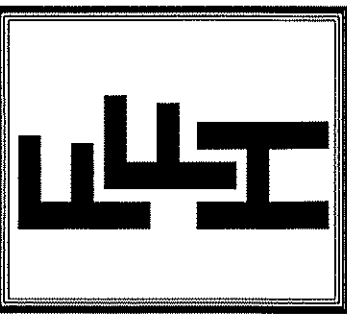
PROVIDE BURGLAR/SMOKE AND FIRE DETECTORS AS PER MANUFACTURER'S SPECIFICATIONS.  
PROVIDE CENTRAL VACUUM SYSTEM AS PER MANUFACTURER'S SPECIFICATIONS.  
ALL FANS ARE TO BE CONTROLLED BY VAR/SPEED AND DIRECTIONAL SWITCHES

⊕ 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		



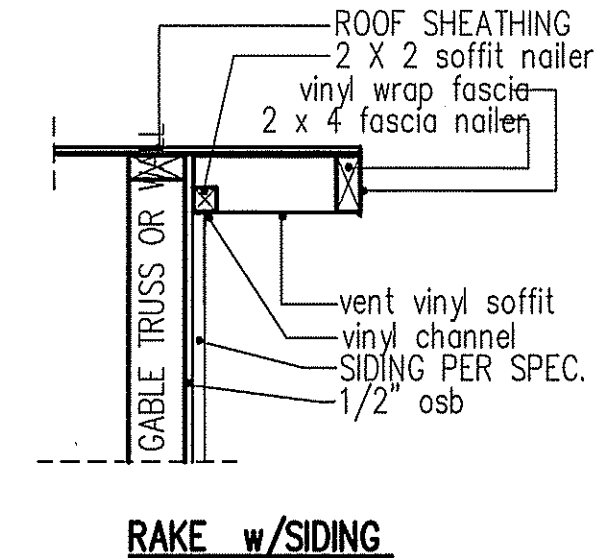
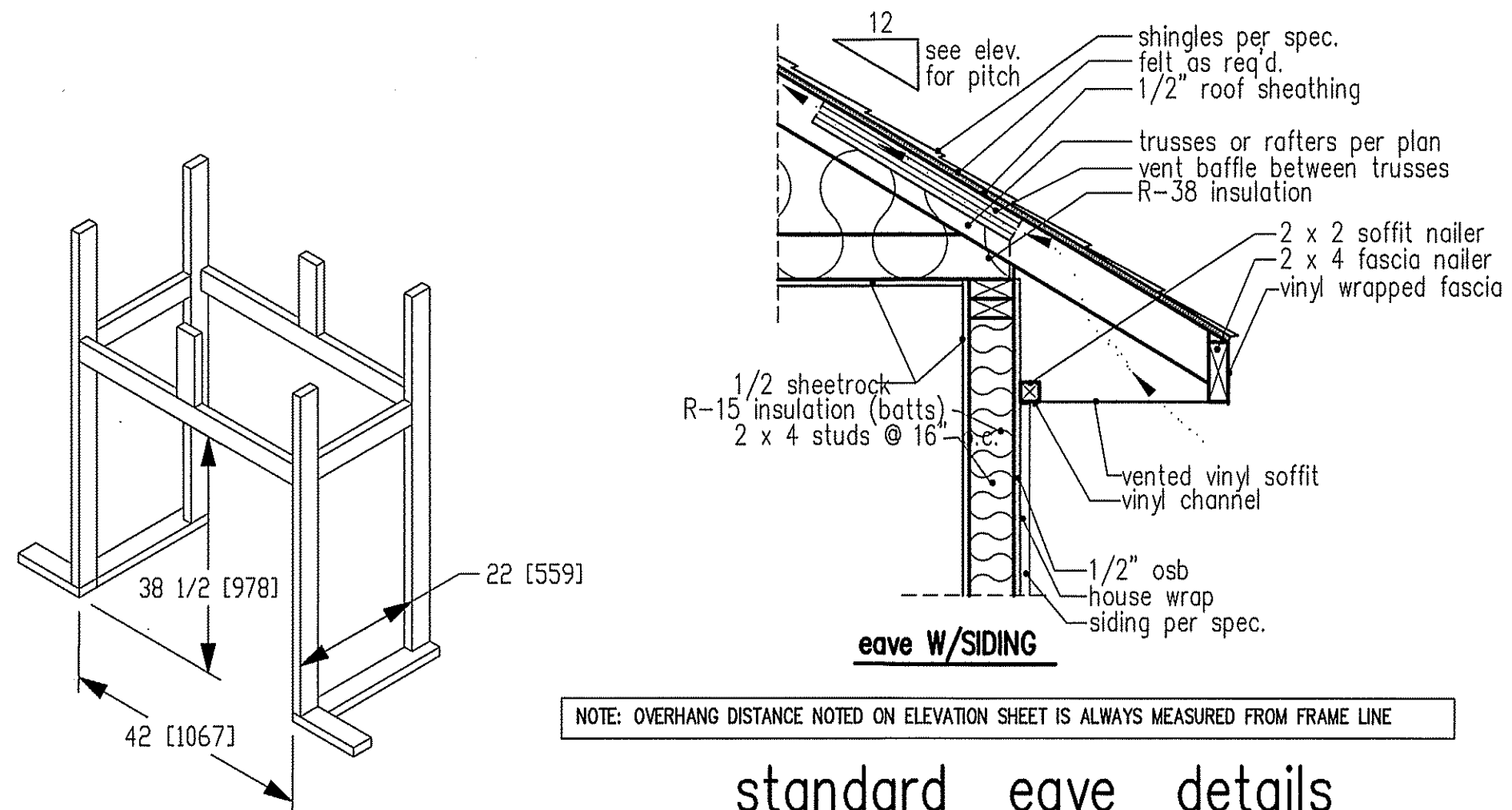
DATE:  
APRIL 26, 2019

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EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
**BENSON**  
PLAN:

SHEET NO.  
**5**



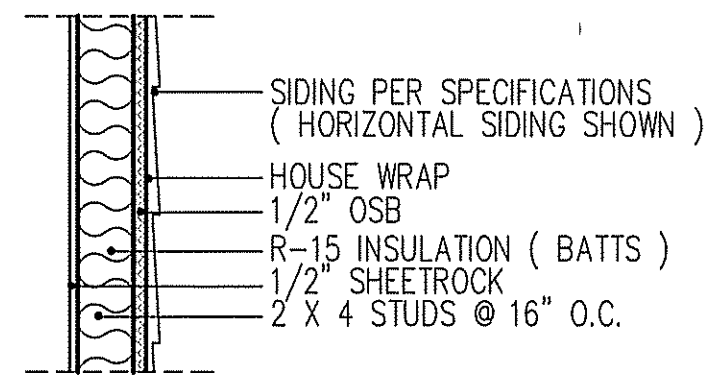
NOTE: OVERHANG DISTANCE NOTED ON ELEVATION SHEET IS ALWAYS MEASURED FROM FRAME LINE

**standard eave details**

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.

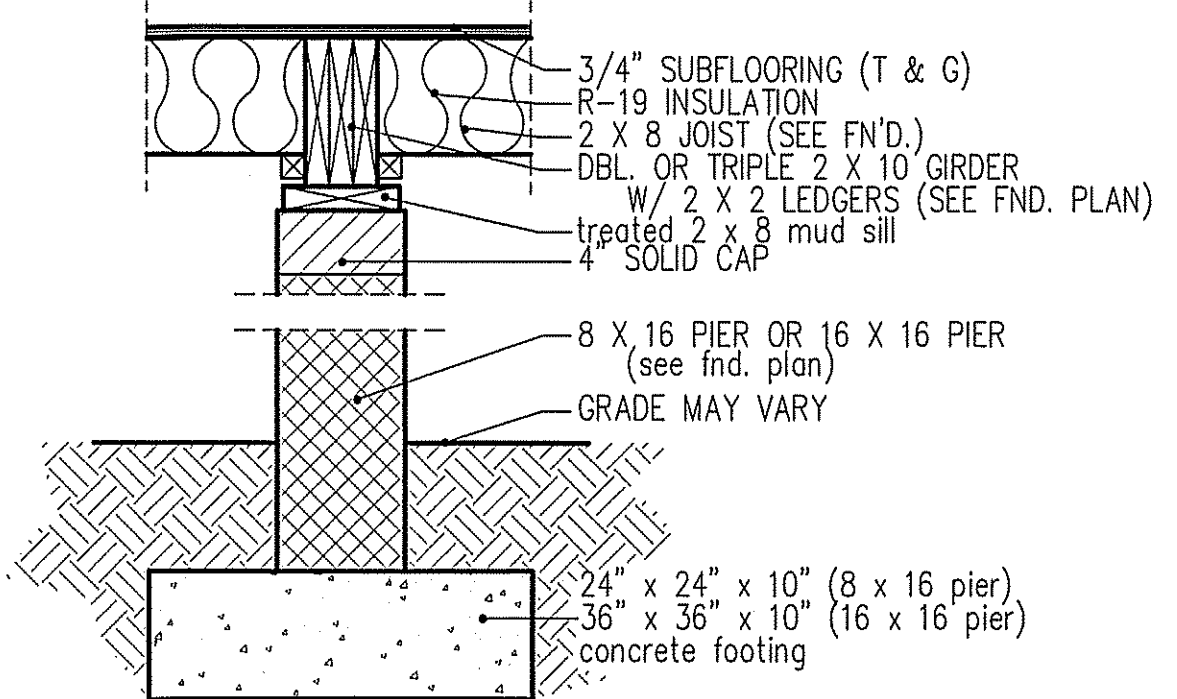
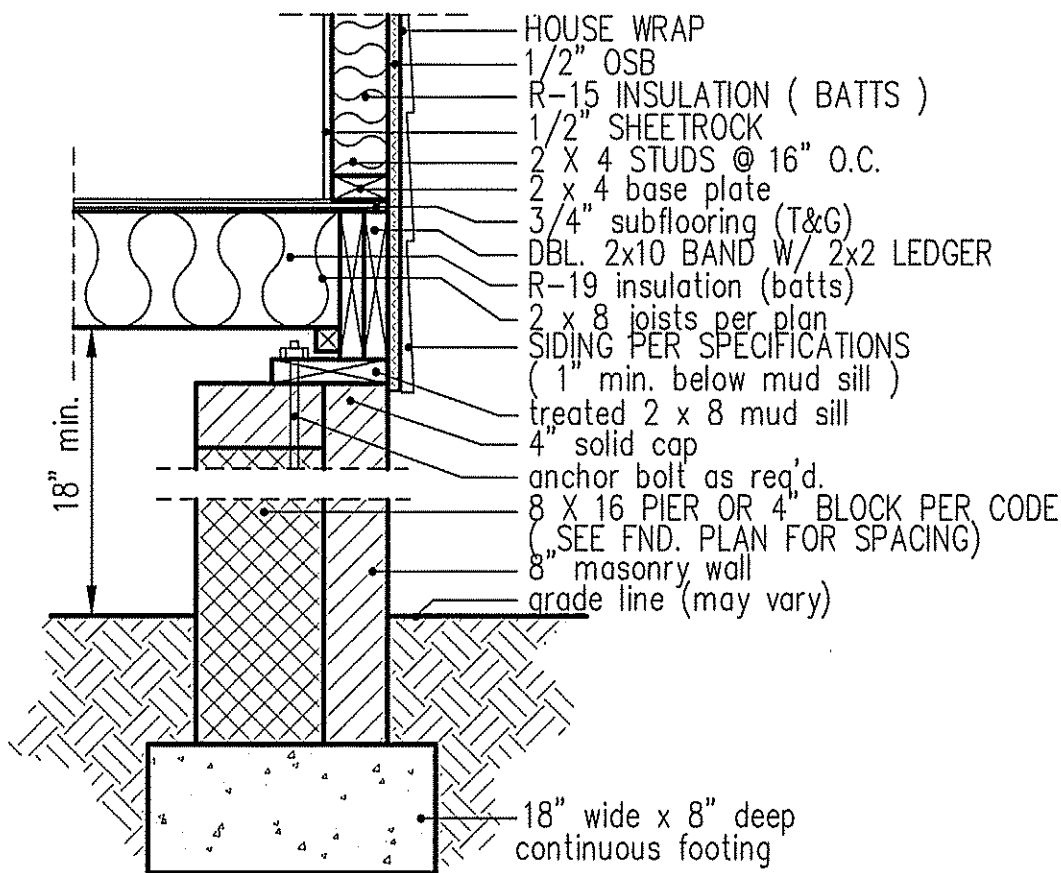
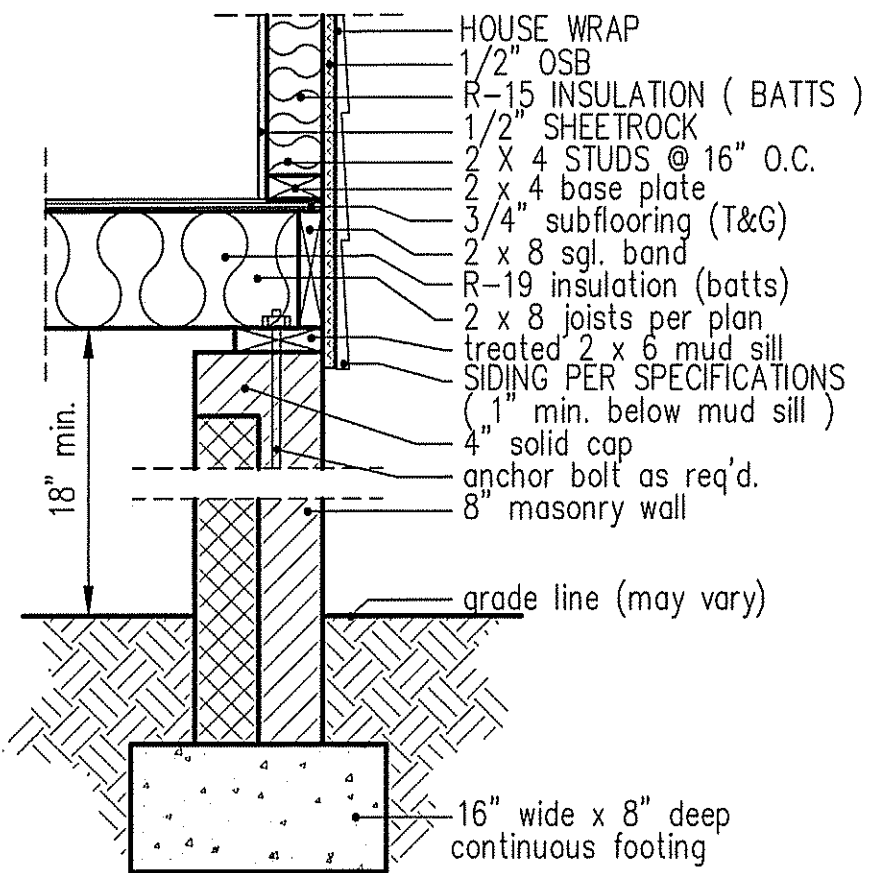


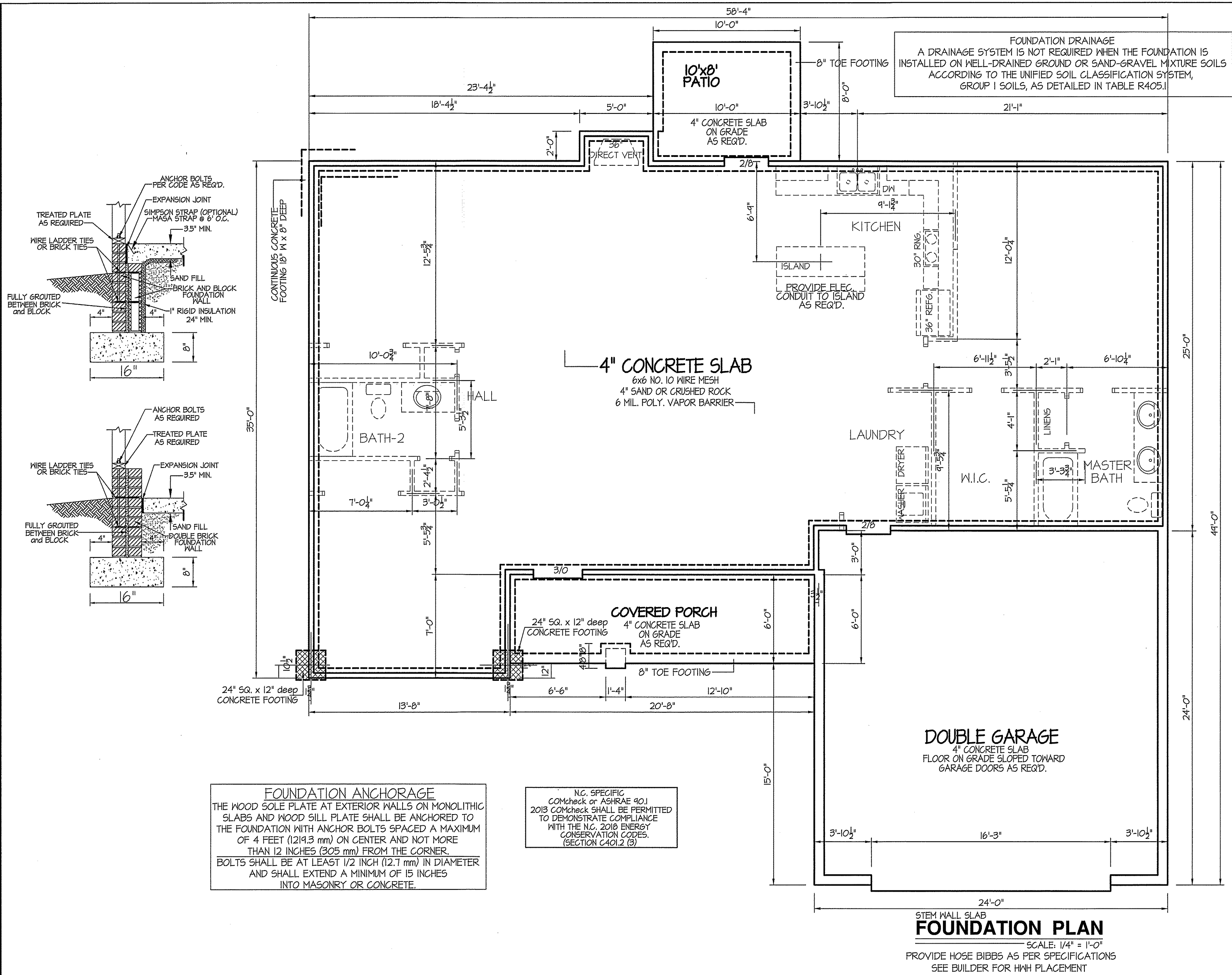
**intermediate wall details**

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

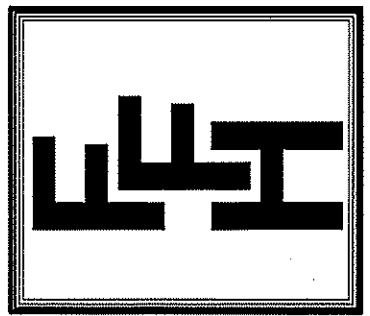
GIRDER AND HEADER SIZES AND JACK STUD REQUIREMENTS ON EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE TO COINCIDE WITH TABLE EXT.~R602.7 (1) AND INT.~R602.7 (2).





DATE:  
 NOV. 16, 2020

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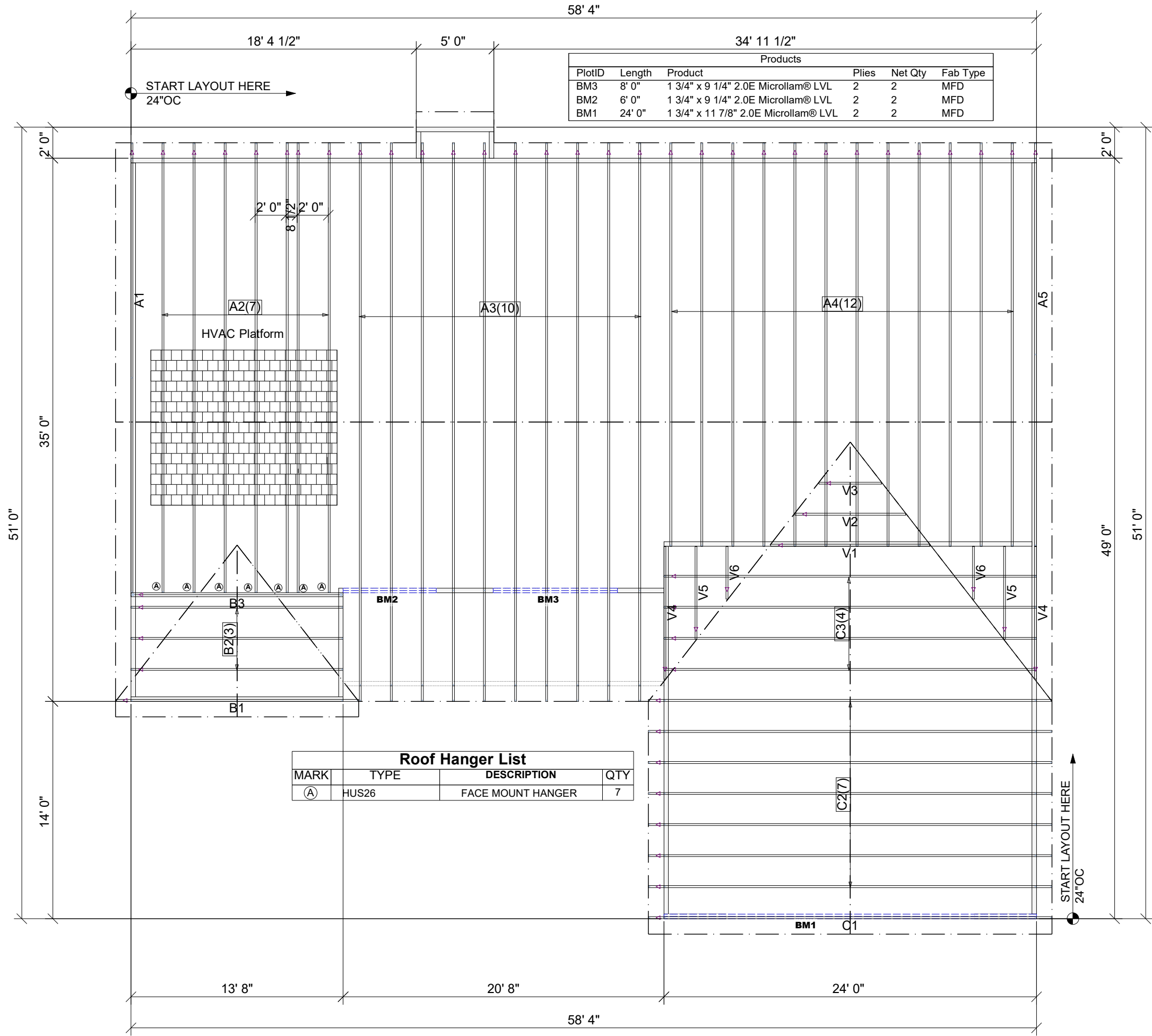
EXCLUSIVE PLAN FOR  
 FREEDOM FAMILY HOMES  
**BENSON ~ RIGHT**  
 w/ STONE

SHEET NO.  
**3s**

**FOUNDATION PLAN**

SCALE: 1/4" = 1'-0"  
 PROVIDE HOSE BIBBS AS PER SPECIFICATIONS  
 SEE BUILDER FOR HWY PLACEMENT

TRUSS TO WALL CONNECTIONS, IF SHOWN, ARE FOR UPLIFT ONLY AND DO NOT CONSIDER LATERAL LOADS. ALL CONNECTORS ON THIS PROJECT ARE TO BE INSTALLED PER THE CONNECTOR MANUFACTURER'S SPECIFICATIONS. ALL CONNECTORS SHOWN THAT ARE NOT "TRUSS TO TRUSS" ARE SUGGESTIONS ONLY AND ARE TO BE VERIFIED BY THE BUILDING DESIGNER OR ENGINEER OF RECORD FOR SUITABILITY TO THIS PARTICULAR PROJECT. UFP MID-ATLANTIC, LLC. ACCEPTS NO RESPONSIBILITY FOR THE SPECIFIC APPLICATION OR SUITABILITY OF ANY CONNECTOR THAT IS NOT "TRUSS TO TRUSS" AS THEY APPLY TO THIS SPECIFIC STRUCTURE.

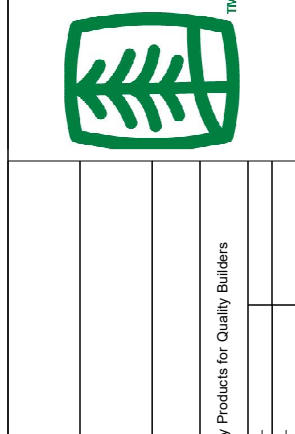


ROOF AREA: 3060.53 ft<sup>2</sup> RIDGE LINE: 103.12 ft VALLEY LINES: 74.72 HIP LINES: 0 Indicates Left End of Truss

Customer  
**PBS**  
Job Name  
**Benson**  
Date: 02/04/21  
Scale: NTS  
Revision Date 1:  
Revision Date 2:

Quality Products for Quality Builders  
Date: 02/04/21  
Scale: NTS  
Revision Date 1:  
Revision Date 2:

Drawn By: jnn  
Checked By: \*\*\*  
Drawing Number  
**21013422**



**UFP MID-ATLANTIC, LLC**  
A UFP INDUSTRIES COMPANY

BURLINGTON, NC PHONE (800) 476-9356  
CHESAPEAKE, VA PHONE (800) 476-3190  
CLINTON, NC PHONE (810) 590-3220  
CONWAY, SC PHONE (800) 397-9572  
JEFFERSON, GA PHONE (800) 648-4038  
LOCUST, NC PHONE (704) 888-0920  
LIBERTY, NC PHONE (800) 648-4038  
OOLTEWAH, TN PHONE (641) 497-0056  
PEARISBURG, VA PHONE (800) 397-9571

NOTES: THIS DRAWING IS THE PROPERTY OF UFP MID-ATLANTIC, LLC AND IS NOT TO BE USED FOR ANY PURPOSE DETRIMENTAL TO THE INTEREST OF UFP MID-ATLANTIC, LLC. THIS DRAWING MUST BE USED IN CONJUNCTION WITH ALL OTHER TECHNICAL DRAWINGS SUPPLIED BY UFP MID-ATLANTIC, LLC AND "BRACING WOOD TRUSS, COMMENTARY AND RECOMMENDATIONS" AS PUBLISHED BY THE TRUSS PLATE INSTITUTE FOR INDUSTRY STANDARDS IN ERECTING TRUSSES. (TFI) IS LOCATED AT 583 D'ONOFRIO DR. SUITE 200 MADISON, WI 53719 (608) 833-5900

1. TEMPORARY BRACING TO BE INSTALLED w/7.P.I. STANDARD BCS-B1.
2. SEE ENGINEERED DRAWING FOR PERMANENT BRACING MINIMUM REQUIREMENTS.
3. FRAMER TO VERIFY ALL DIMENSIONS, DROP, & RISE LOCATIONS PRIOR TO TRUSS PLACEMENT.
4. BLDR/FRAMER RESPONSIBLE FOR ADJUSTMENT OF TRUSS SPACING TO MISS PLUMBING DROPS, UNLESS NOTED OTHERWISE.
5. THIS LAYOUT IS NOT AN ENGINEERED DRAWING. THIS DRAWING WAS CREATED TO ESTABLISH TRUSS PLACEMENT ONLY. IT IS THE RESPONSIBILITY OF THE BUILDER TO PROVIDE ADEQUATE SUPPORT FOR ALL THE ELEMENTS SHOWN IN THIS DRAWING.

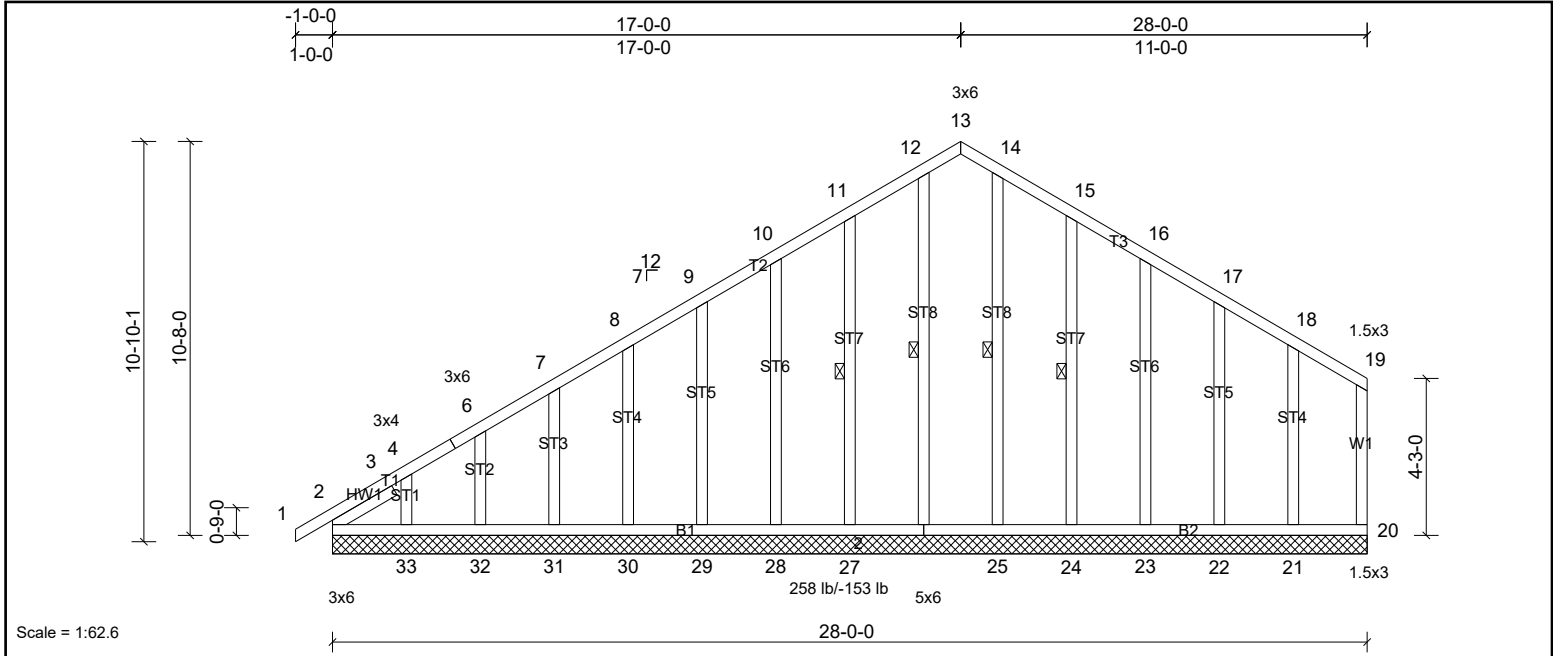
Job 21013422	Truss A1	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Jerry Naylor

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Fri Feb 05 12:34:37

Page: 1

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Scale = 1:62.6

Plate Offsets (X, Y):	[2:Edge,0-0-0], [13:0-3-0,Edge], [26:0-3-0,0-3-0]											
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	20	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 219 lb	FT = 20%

<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt
OTHERS	2x4 SP No.3		12-26, 14-25, 11-27, 15-24
SLIDER	Left 2x4 SP No.3 -- 1-11-0		

<b>REACTIONS</b>	All bearings 28-0-0.
(lb) - Max Horiz	2=327 (LC 9), 34=327 (LC 9)
Max Uplift	All uplift 100 (lb) or less at joint(s) 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32 except 2=154 (LC 6), 33=127 (LC 10), 34=154 (LC 6)
Max Grav	All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33 except 2=259 (LC 18), 34=259 (LC 18)

<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-4=-329/292, 4-5=-282/232, 5-6=-270/246, 6-7=-271/243, 7-8=-255/238, 10-11=-221/252, 11-12=-282/325, 12-13=-233/262, 13-14=-233/262, 14-15=-282/325, 15-16=-221/252

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 2x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 26, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21 except (jt=lb) 2=153, 33=127, 2=153.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

<b>LOAD CASE(S)</b>	Standard
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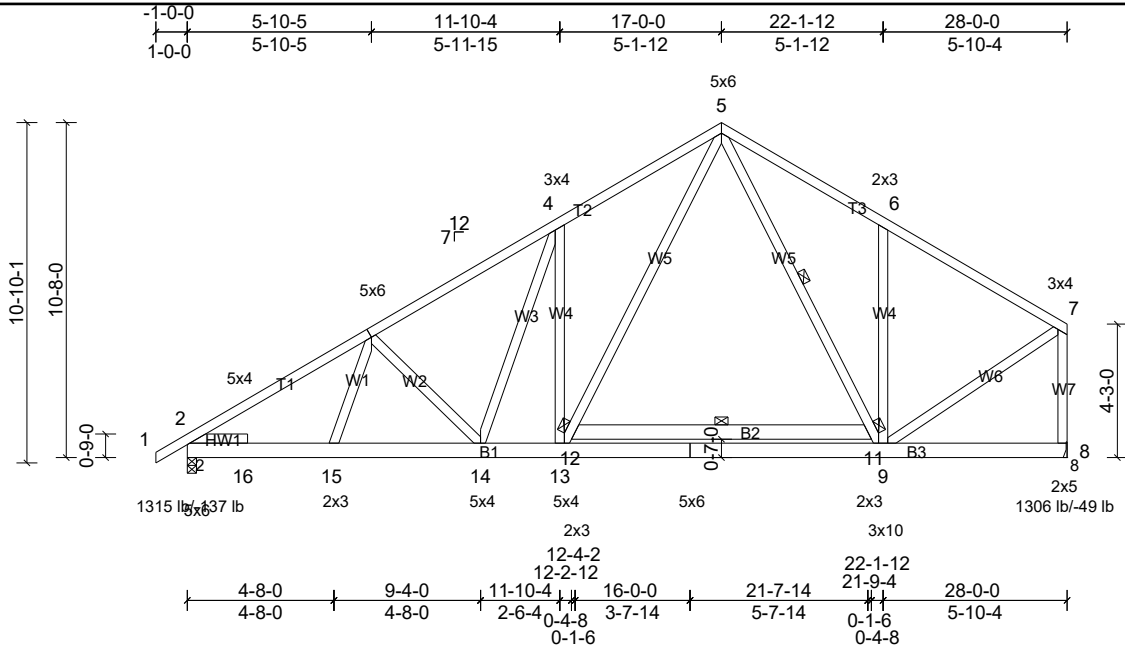
Job 21013422	Truss A2	Truss Type Truss	Qty 7	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Jerry Naylor

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Fri Feb 05 12:34:38

Page: 1

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Scale = 1:73.6

Plate Offsets (X, Y): [3:0-3-0,0-3-0], [7:0-2-4,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.23	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.41	11-12	>806	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 233 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS	2x4 SP No.3	WEBS	6-0-0 oc bracing: 11-12
SLIDER	Left 2x4 SP No.3 -- 1-10-1		1 Row at midpt
<b>REACTIONS</b>	(lb/size) 2=1254/0-3-8, (min. 0-1-9), 8=1224/ Mechanical, (min. 0-1-8)		5-11
	Max Horiz 2=325 (LC 9)		
	Max Uplift 2=-137 (LC 10), 8=-49 (LC 11)		
	Max Grav 2=1315 (LC 17), 8=1306 (LC 17)		
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-1835/225, 3-4=-1683/266, 4-5=-1666/374, 5-6=-1201/326, 6-7=-1143/174, 7-8=-1292/147		
BOT CHORD	2-16=-279/643, 15-16=-233/1700, 14-15=-245/1718, 13-14=-72/1471, 13-21=0/996, 10-21=0/996, 10-22=0/996, 22-23=0/996, 9-23=0/996		
WEBS	7-9=-5/1142, 3-14=-303/191, 4-14=-124/253, 12-13=-279/992, 5-12=-211/1174, 5-11=-141/300, 4-13=-564/349, 6-9=-400/268		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2 and 49 lb uplift at joint 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job 21013422	Truss A3	Truss Type Truss	Qty 10	Ply 1	Job Reference (optional)
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Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Fri Feb 05 12:34:38

Page: 1

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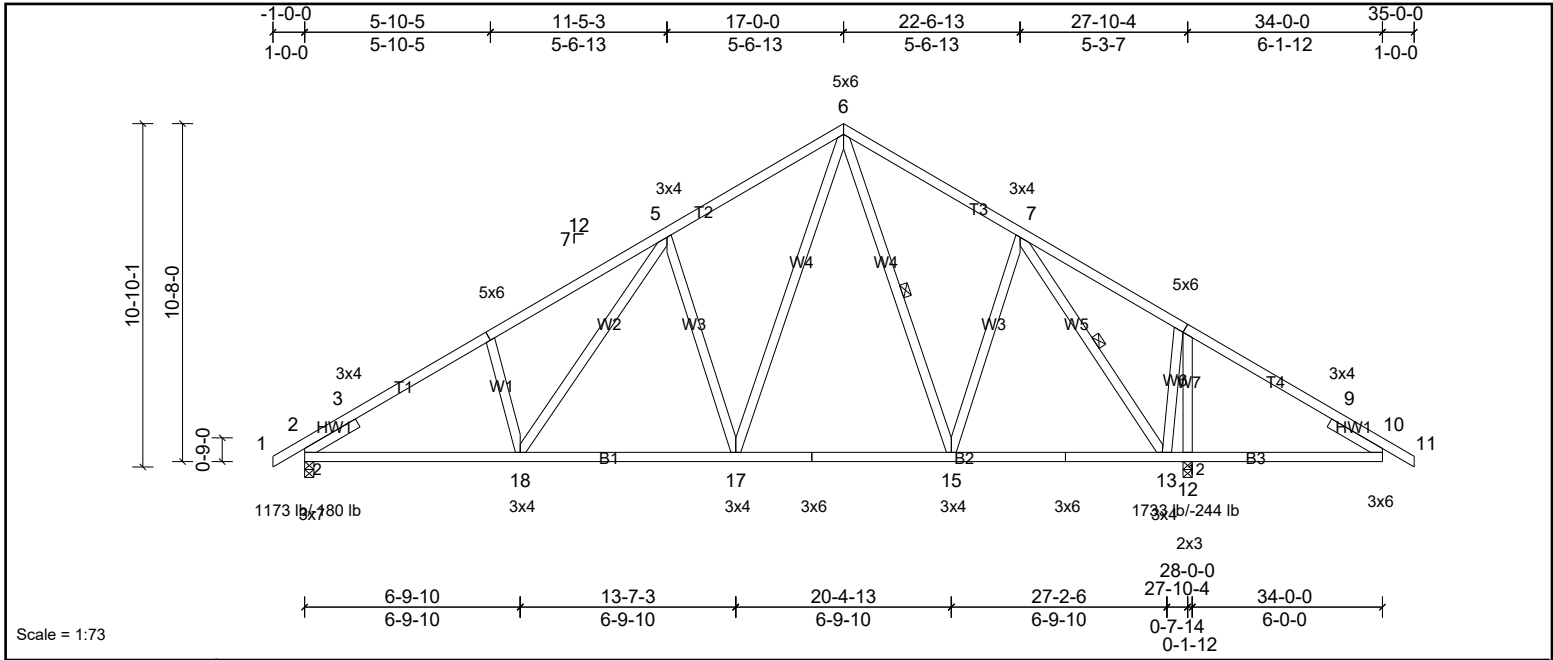


Plate Offsets (X, Y): [2:0-4-15,Edge], [4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [10:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.11	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.20	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 213 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-15, 7-13
SLIDER Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0	

REACTIONS	(lb/size)
2=1107/0-3-8, (min. 0-1-8), 12=1733/0-3-8, (min. 0-2-1)	
Max Horiz 2=271 (LC 9)	
Max Uplift 2=-180 (LC 10), 12=-244 (LC 11)	
Max Grav 2=1173 (LC 17), 12=1733 (LC 1)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-533/0, 3-4=-1646/249, 4-5=-1604/338, 5-6=-1179/309, 6-7=-842/242, 7-8=-146/363, 8-9=-288/535, 9-10=-169/264
BOT CHORD	2-18=-292/1544, 18-27=-158/1225, 27-28=-158/1225, 17-28=-158/1225, 17-29=-7/789, 16-29=-7/789, 16-30=-7/789, 15-30=-8/622, 15-31=-8/622, 14-31=-8/622, 14-32=-8/622, 13-32=-8/622, 12-13=-349/333, 10-12=-369/336
WEBS	4-18=-270/207, 5-18=-148/463, 5-17=-574/295, 6-17=-209/860, 7-15=-28/419, 7-13=-1281/331, 8-13=0/1001, 8-12=-1441/157

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 3x4 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 2 and 244 lb uplift at joint 12.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

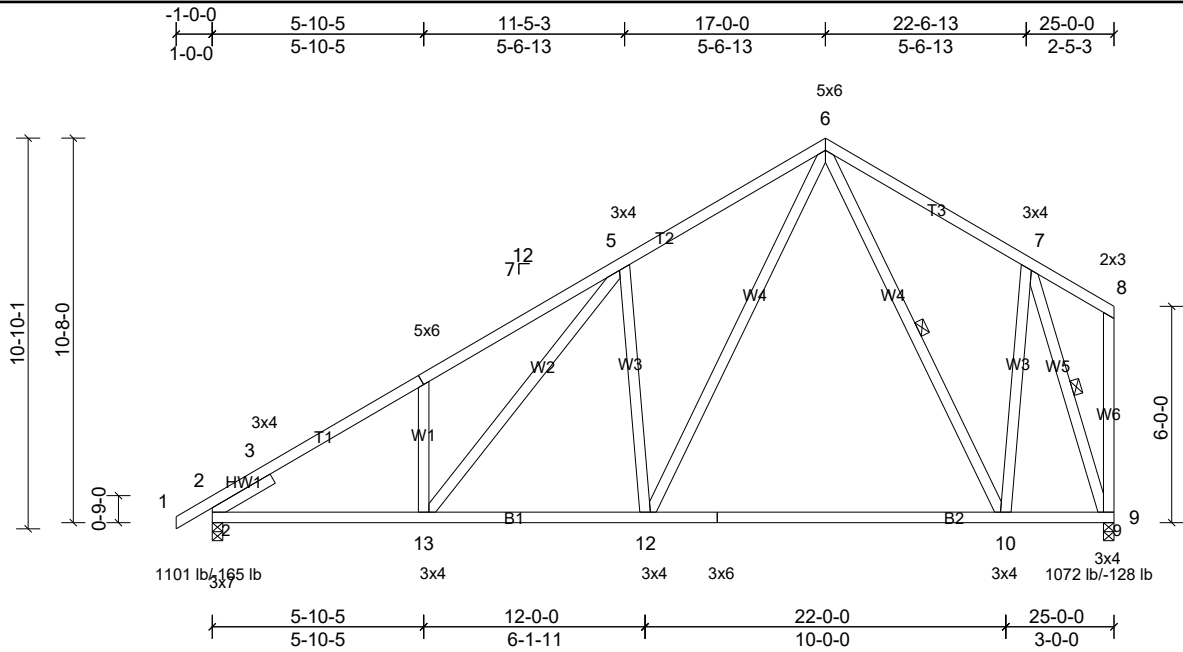
Job 21013422	Truss A4	Truss Type Truss	Qty 12	Ply 1	Job Reference (optional)
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Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Fri Feb 05 12:34:39

Page: 1

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Scale = 1:64.2

Plate Offsets (X, Y): [2:0-4-15,Edge], [4:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.35	10-12	>844	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.58	10-12	>518	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 176 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.3		2-2-0 oc bracing: 10-12.
SLIDER	Left 2x4 SP No.3 -- 1-11-0	WEBS	1 Row at midpt
			7-9, 6-10
REACTIONS			
(lb/size)	2=1055/0-3-8, (min. 0-1-8), 9=993/0-3-8, (min. 0-1-8)		
Max Horiz	2=351 (LC 9)		
Max Uplift	2=-165 (LC 10), 9=-128 (LC 10)		
Max Grav	2=1101 (LC 17), 9=1072 (LC 17)		
FORCES			
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-3=-500/0, 3-4=-1506/280, 4-5=-1541/416, 5-6=-1224/399, 6-7=-615/290		
BOT CHORD	2-13=-287/1417, 13-18=-143/1133, 18-19=-143/1133, 12-19=-143/1133, 11-12=-67/639, 11-20=-67/639, 10-20=-67/639, 9-10=-76/390		
WEBS	7-9=-1219/117, 4-13=-304/229, 5-13=-228/488, 5-12=-569/336, 6-12=-252/1030, 6-10=-434/123, 7-10=0/719		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2 and 128 lb uplift at joint 9.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.





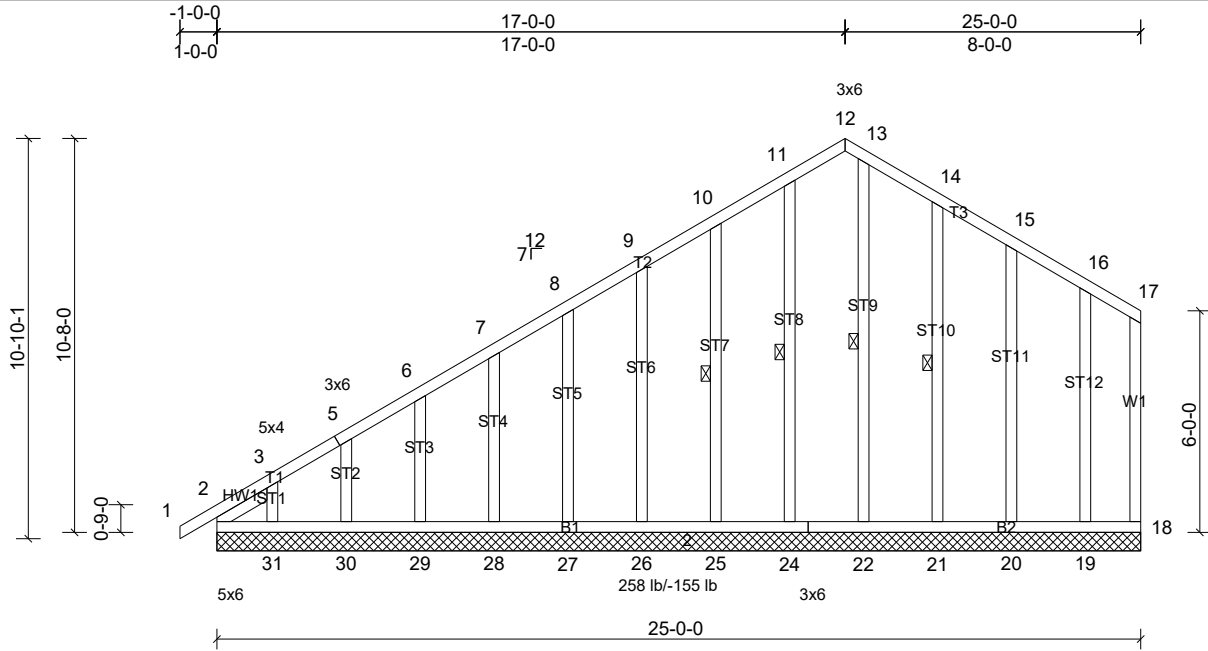
Job 21013422	Truss A5	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Fri Feb 05 12:34:39

Page: 1

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Scale = 1:62.6

Plate Offsets (X, Y): [2:Edge,0-1-12], [4:0-1-9,Edge], [12:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 203 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 10-25, 11-24, 13-22, 14-21
OTHERS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 -- 1-7-9	

**REACTIONS** All bearings 25-0-0.  
 (lb) - Max Horiz 2=351 (LC 9), 32=351 (LC 9)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30 except 2=155 (LC 6), 31=130 (LC 10), 32=155 (LC 6)  
 Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31 except 2=258 (LC 18), 32=258 (LC 18)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-299/233, 4-5=-288/244, 5-6=-275/224, 6-7=-260/218, 10-11=-234/264, 11-12=-238/268, 13-14=-259/294

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 2x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 26, 25, 27, 28, 29, 30, 24, 22, 21, 20, 19 except (jt=lb) 2=155, 31=130, 2=155.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



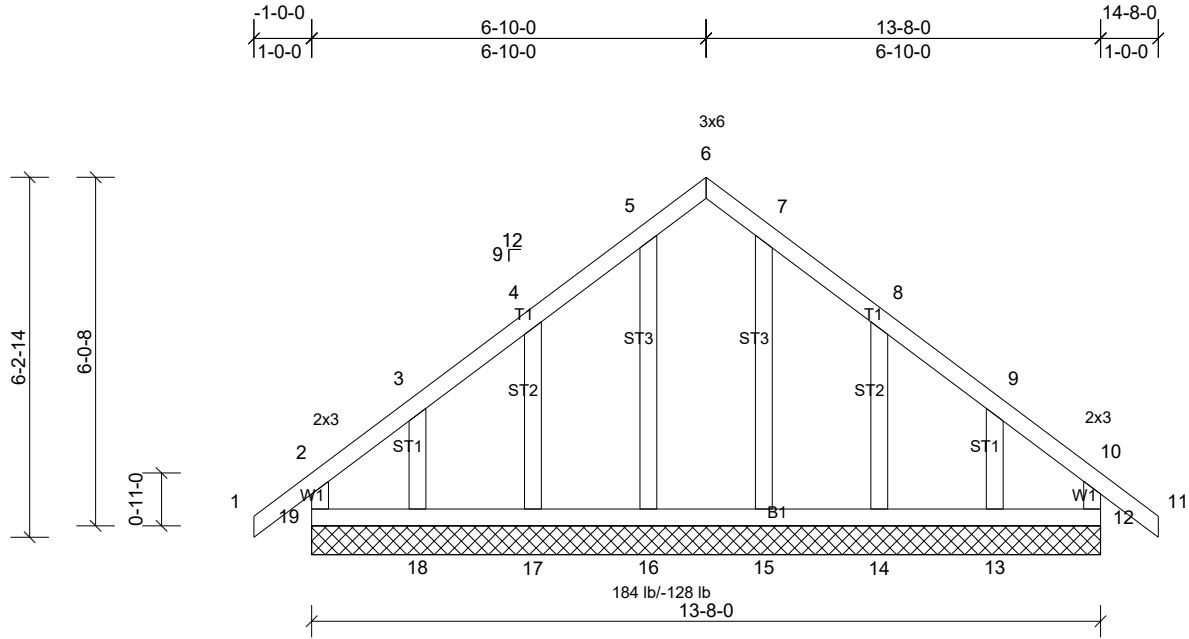
Job 21013422	Truss B1	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Fri Feb 05 12:34:39

Page: 1

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Scale = 1:40.1

Plate Offsets (X, Y): [6:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 80 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** All bearings 13-8-0.  
(lb) - Max Horiz 19=178 (LC 9)  
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 14, 17, 19 except 13=124 (LC 11), 18=128 (LC 10)  
Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19  
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12, 17, 14 except (jt=lb) 18=128, 13=124.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



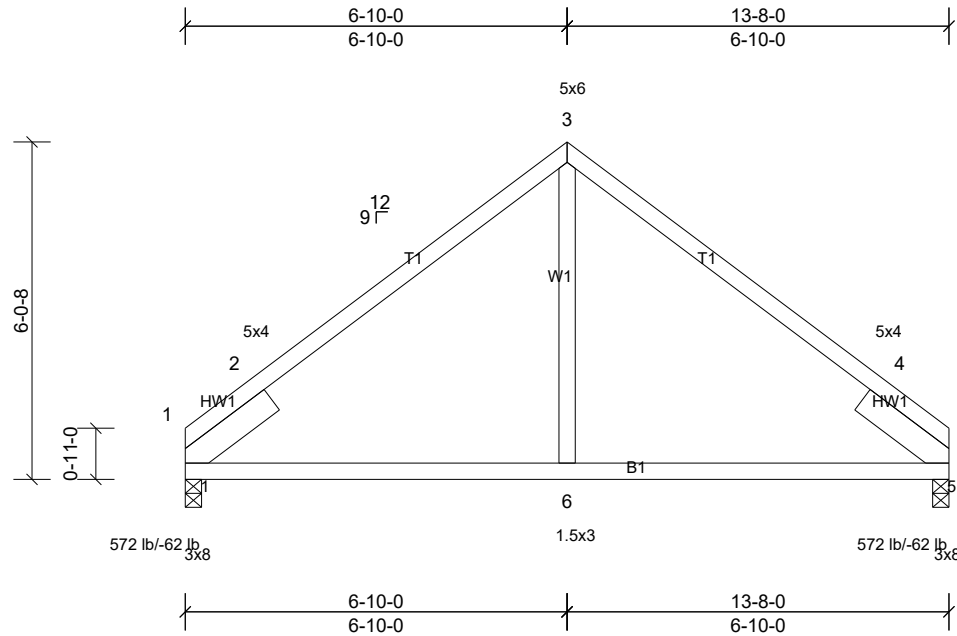
Job 21013422	Truss B2	Truss Type Truss	Qty 3	Ply 1	Job Reference (optional)
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Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Fri Feb 05 12:34:39

Page: 1

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Scale = 1:41.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.09	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.11	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.04	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 63 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

**REACTIONS**  
(lb/size) 1=547/0-3-8, (min. 0-1-8), 5=547/0-3-8, (min. 0-1-8)  
Max Horiz 1=132 (LC 7)  
Max Uplift 1=62 (LC 10), 5=62 (LC 11)  
Max Grav 1=572 (LC 17), 5=572 (LC 18)

**FORCES**  
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-357/118, 2-3=-627/159, 3-4=-627/159, 4-5=-268/73  
BOT CHORD 1-15=-248/463, 6-15=-22/463, 6-16=-22/463, 5-16=-22/463  
WEBS 3-6=0/326

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-00-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 1 and 62 lb uplift at joint 5.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.





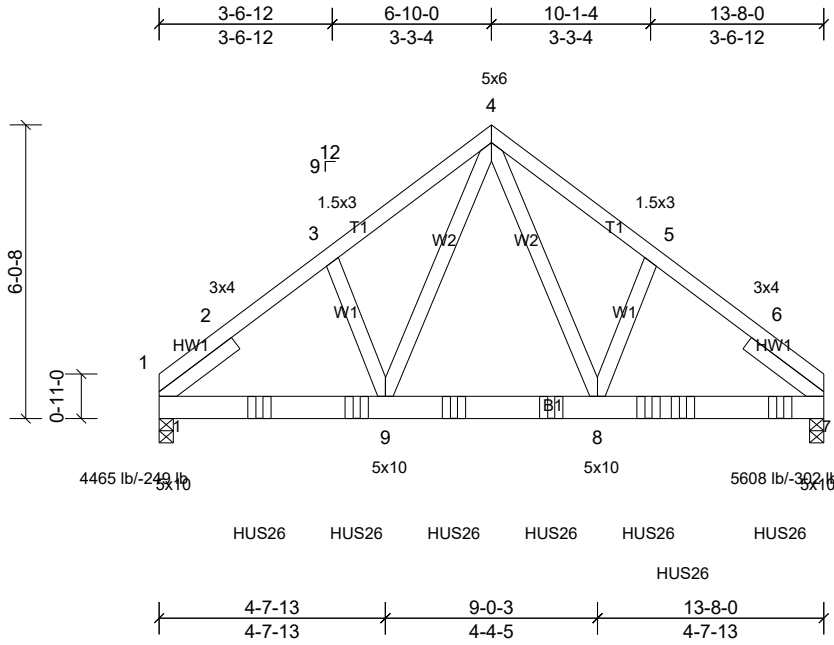
Job 21013422	Truss B3	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Jerry Naylor

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Page: 1

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Scale = 1:47.6

Plate Offsets (X, Y): [4:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.05	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.11	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 179 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0	
<b>REACTIONS</b>	
(lb/size) 1=4231/0-3-8, (min. 0-2-10), 7=5293/0-3-8, (min. 0-3-5)	
Max Horiz 1=132 (LC 7)	
Max Uplift 1=-249 (LC 8), 7=-302 (LC 9)	
Max Grav 1=4465 (LC 15), 7=5608 (LC 16)	
<b>FORCES</b>	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-3525/163, 2-3=-5262/315, 3-4=-5176/379, 4-5=-5637/401, 5-6=-5708/336, 6-7=-3961/194	
BOT CHORD 1-18=-273/4188, 18-19=-273/4188, 9-19=-273/4188, 9-20=-141/3164, 20-21=-141/3164, 8-21=-141/3164, 8-22=-223/4493, 22-23=-223/4493, 23-24=-223/4493, 7-24=-223/4493	
WEBS 4-8=-276/3869, 4-9=-229/2860, 3-9=-60/262	

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-8-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section.  
Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 1 and 302 lb uplift at joint 7.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 12-9-4 to connect truss(es) A2 (1 ply 2x6 SP) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-4=-60, 4-7=-60, 10-14=-20  
Concentrated Loads (lb)  
Vert: 18=-1204 (B), 19=-1204 (B), 20=-1204 (B), 21=-1204 (B), 22=-1204 (B), 23=-1204 (B), 24=-1205 (B)

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



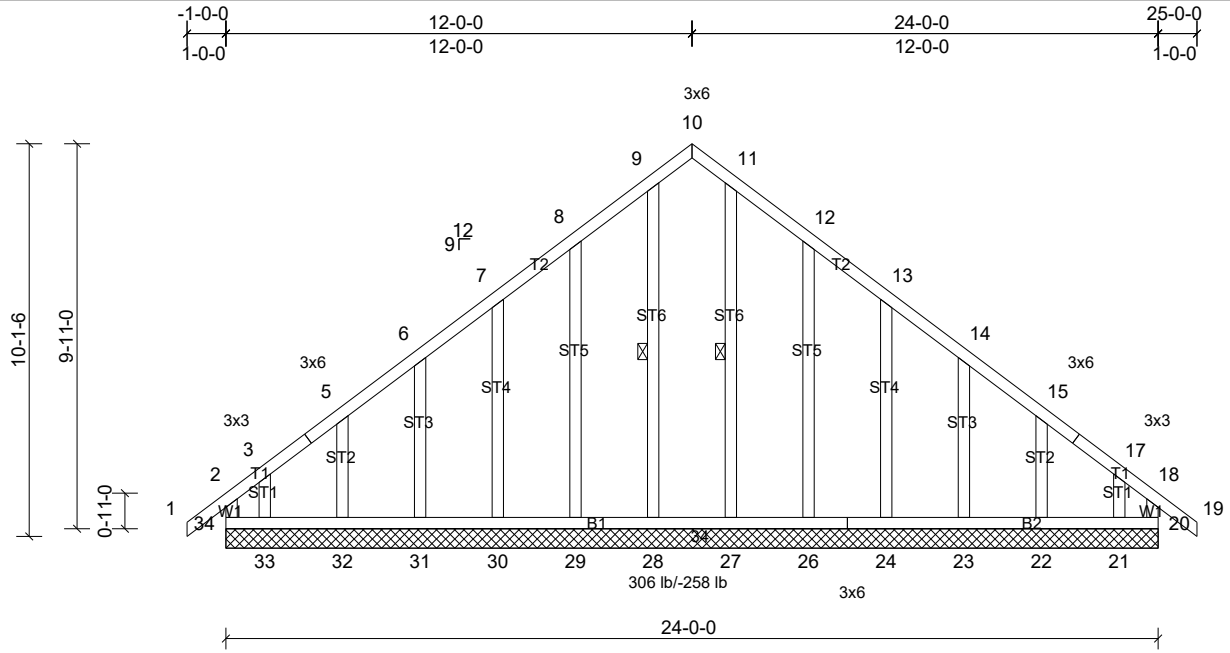
Job 21013422	Truss C1	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Page: 1

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Scale = 1:59.6

Plate Offsets (X, Y): [10:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 173 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt
OTHERS	2x4 SP No.3		9-28, 11-27

**REACTIONS**  
 All bearings 24-0-0.  
 (lb) - Max Horiz 34=-278 (LC 8)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 22, 23, 24, 30, 31, 32 except 20=-116 (LC 9), 21=-240 (LC 11), 26=-112 (LC 11), 29=-109 (LC 10), 33=-258 (LC 10), 34=-173 (LC 8)  
 Max Grav All reactions 250 (lb) or less at joint(s) 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33 except 20=276 (LC 11), 34=306 (LC 10)

**FORCES**  
 (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-305/205, 17-18=-278/192

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 2x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 31, 32, 24, 23, 22 except (jt=lb) 34=173, 20=116, 29=109, 33=258, 26=112, 21=240.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job 21013422	Truss C2	Truss Type Truss	Qty 7	Ply 1	Job Reference (optional)
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Page: 1

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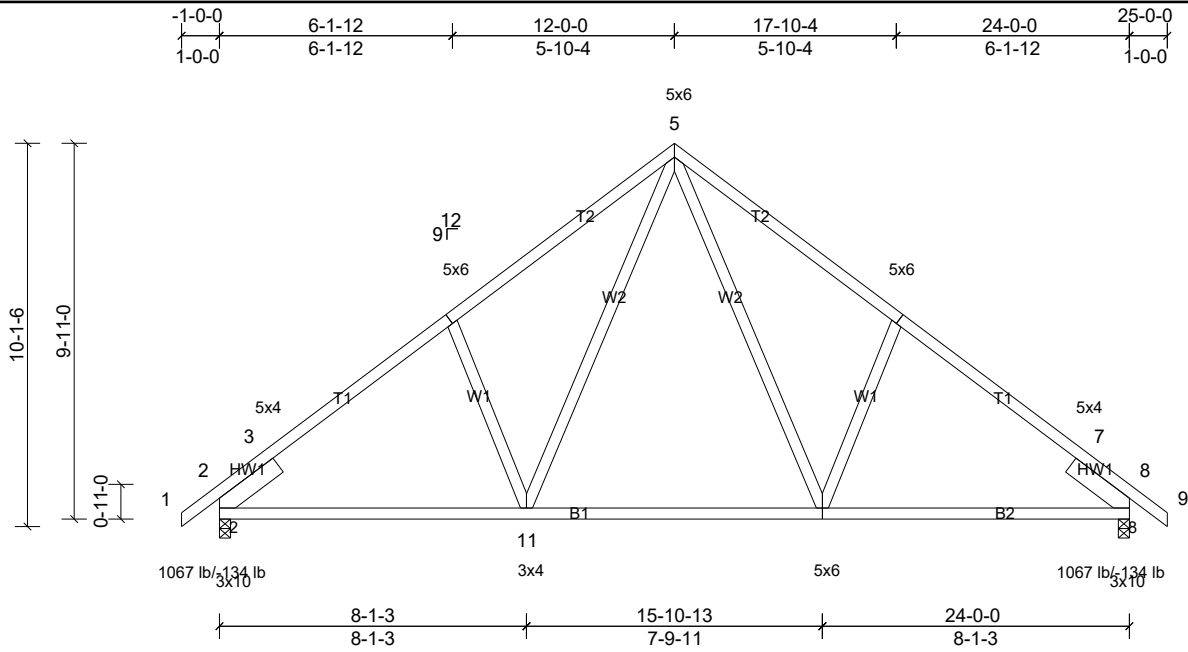


Plate Offsets (X, Y): [2:0-6-10,Edge], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [8:0-6-10,Edge], [10:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	-0.16	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.25	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH						Weight: 139 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-9 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0	

**REACTIONS**

(lb/size)	2=1020/0-3-8, (min. 0-1-8), 8=1020/0-3-8, (min. 0-1-8)
Max Horiz	2=-252 (LC 8)
Max Uplift	2=-134 (LC 10), 8=-134 (LC 11)
Max Grav	2=1067 (LC 17), 8=1067 (LC 18)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-527/0, 3-4=-1228/258, 4-5=-1166/365, 5-6=-1166/365, 6-7=-1228/258, 7-8=-430/0
BOT CHORD	2-20=-251/1083, 20-21=-171/1083, 11-21=-171/1083, 11-22=0/733, 22-23=0/733, 10-23=0/733, 10-24=-58/943, 24-25=-58/943, 8-25=-58/943
WEBS	5-10=-186/616, 6-10=-343/276, 5-11=-186/616, 4-11=-343/276

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 2 and 134 lb uplift at joint 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





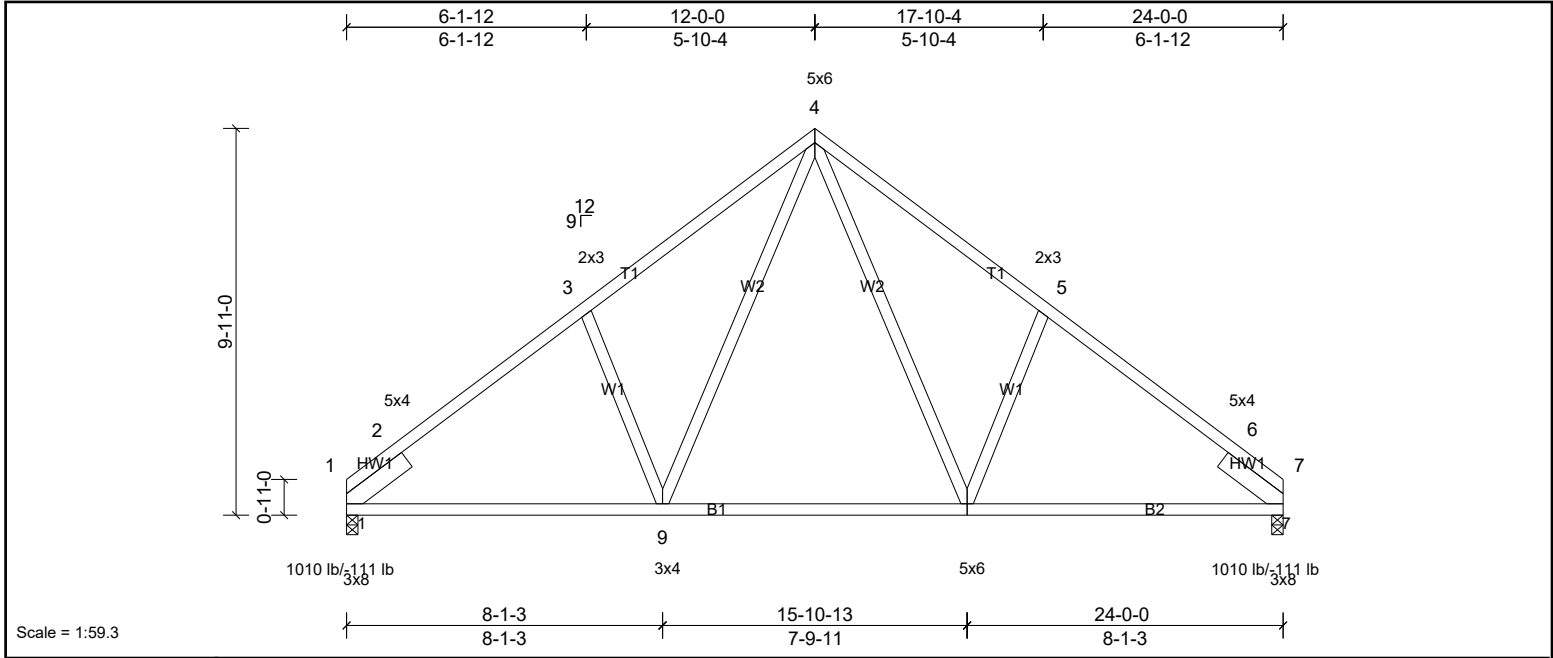
Job 21013422	Truss C3	Truss Type Truss	Qty 4	Ply 1	Job Reference (optional)
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Page: 1

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Scale = 1:59.3

Plate Offsets (X, Y):	[8:0-3-0,0-3-0]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.16	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.24	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 135 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-7 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0	
<b>REACTIONS</b>	
(lb/size) 1=960/0-3-8, (min. 0-1-8), 7=960/0-3-8, (min. 0-1-8)	
Max Horiz 1=-233 (LC 6)	
Max Uplift 1=-111 (LC 10), 7=-111 (LC 11)	
Max Grav 1=1010 (LC 17), 7=1010 (LC 18)	
<b>FORCES</b>	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-538/0, 2-3=-1232/261, 3-4=-1172/370, 4-5=-1173/370, 5-6=-1232/261, 6-7=-455/0	
BOT CHORD 1-18=-262/1078, 18-19=-184/1078, 9-19=-184/1078, 9-20=-12/726, 20-21=-12/726, 8-21=-12/726, 8-22=-103/937, 22-23=-103/937, 7-23=-103/937	
WEBS 4-8=-189/623, 5-8=-344/278, 4-9=-189/623, 3-9=-344/278	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 1 and 111 lb uplift at joint 7.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

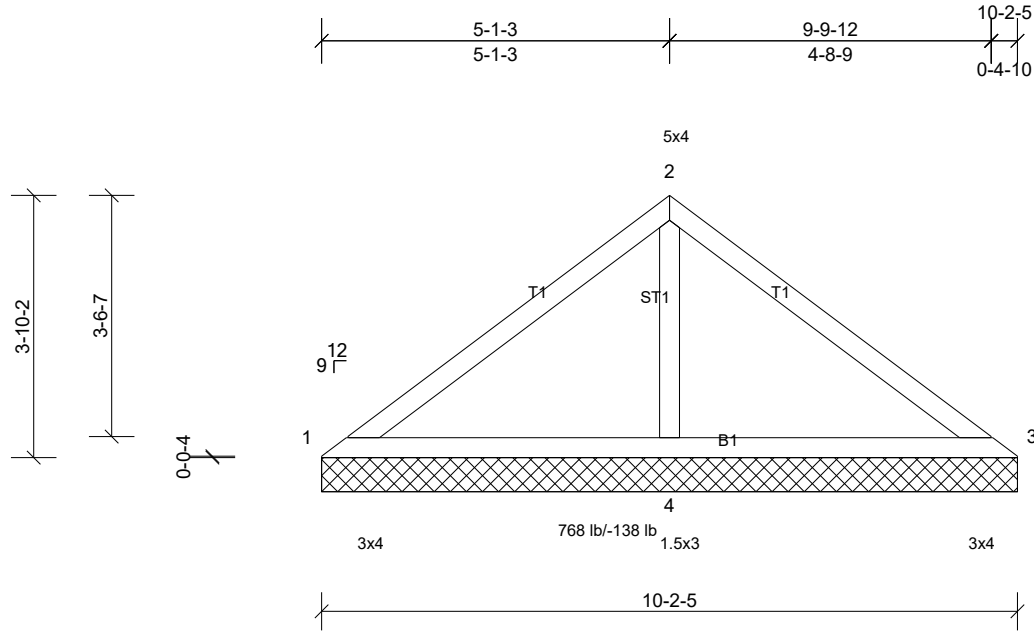
Job 21013422	Truss V1	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Page: 1

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Scale = 1:33.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 37 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS	(lb/size)	1=24/10-2-5, (min. 0-1-8), 3=24/10-2-5, (min. 0-1-8), 4=768/10-2-5, (min. 0-1-8)
Max Horiz	1=95 (LC 9)	
Max Uplift	1=-34 (LC 22), 3=-34 (LC 21), 4=-138 (LC 10)	
Max Grav	1=68 (LC 21), 3=68 (LC 22), 4=768 (LC 1)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-108/346, 2-3=-108/346
BOT CHORD	1-4=-285/159, 3-4=-285/159
WEBS	2-4=-592/235

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 34 lb uplift at joint 3 and 138 lb uplift at joint 4.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)	Standard





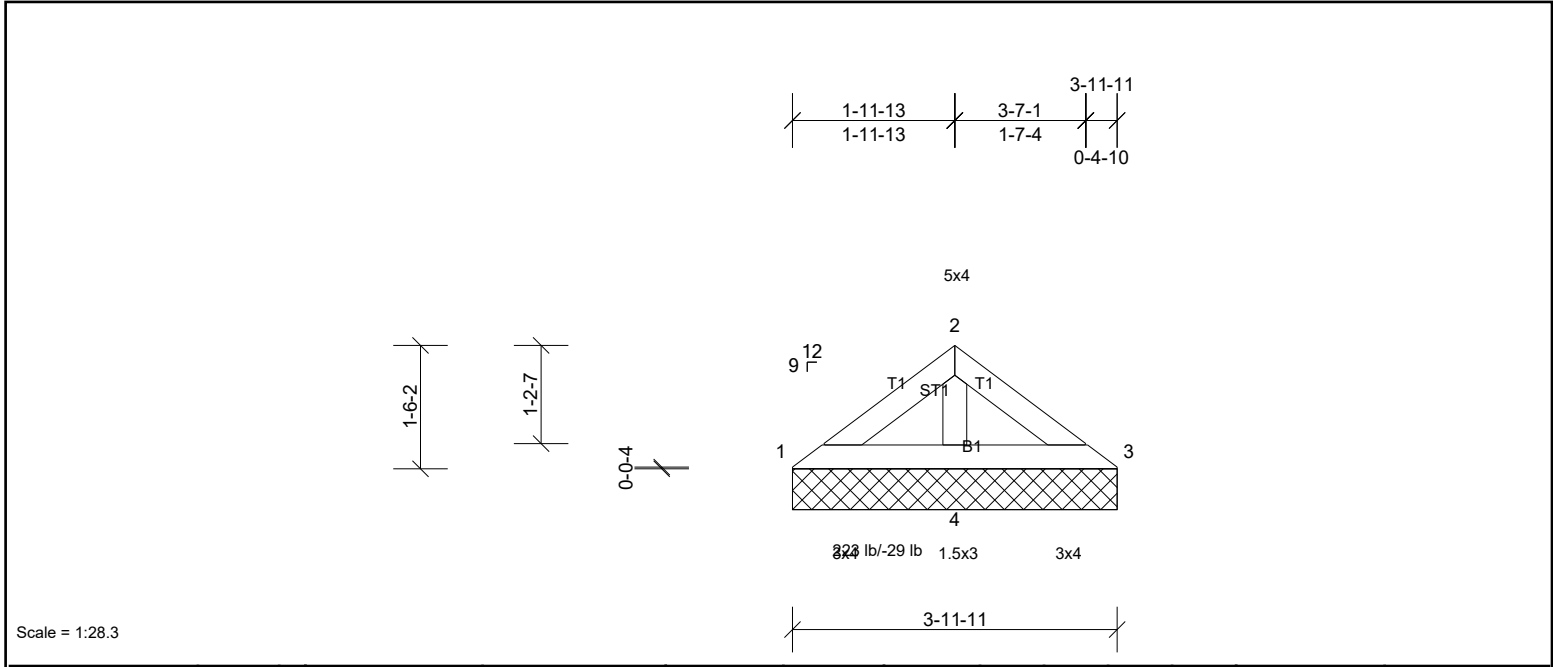
Job 21013422	Truss V3	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Page: 1

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Scale = 1:28.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

**LUMBER**

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

**BRACING**

TOP CHORD	Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS**

(lb/size)	1=48/3-11-11, (min. 0-1-8), 3=48/3-11-11, (min. 0-1-8), 4=223/3-11-11, (min. 0-1-8)
Max Horiz	1=34 (LC 6)
Max Uplift	1=-6 (LC 10), 3=-12 (LC 11), 4=-29 (LC 10)
Max Grav	1=55 (LC 21), 3=55 (LC 22), 4=223 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 12 lb uplift at joint 3 and 29 lb uplift at joint 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



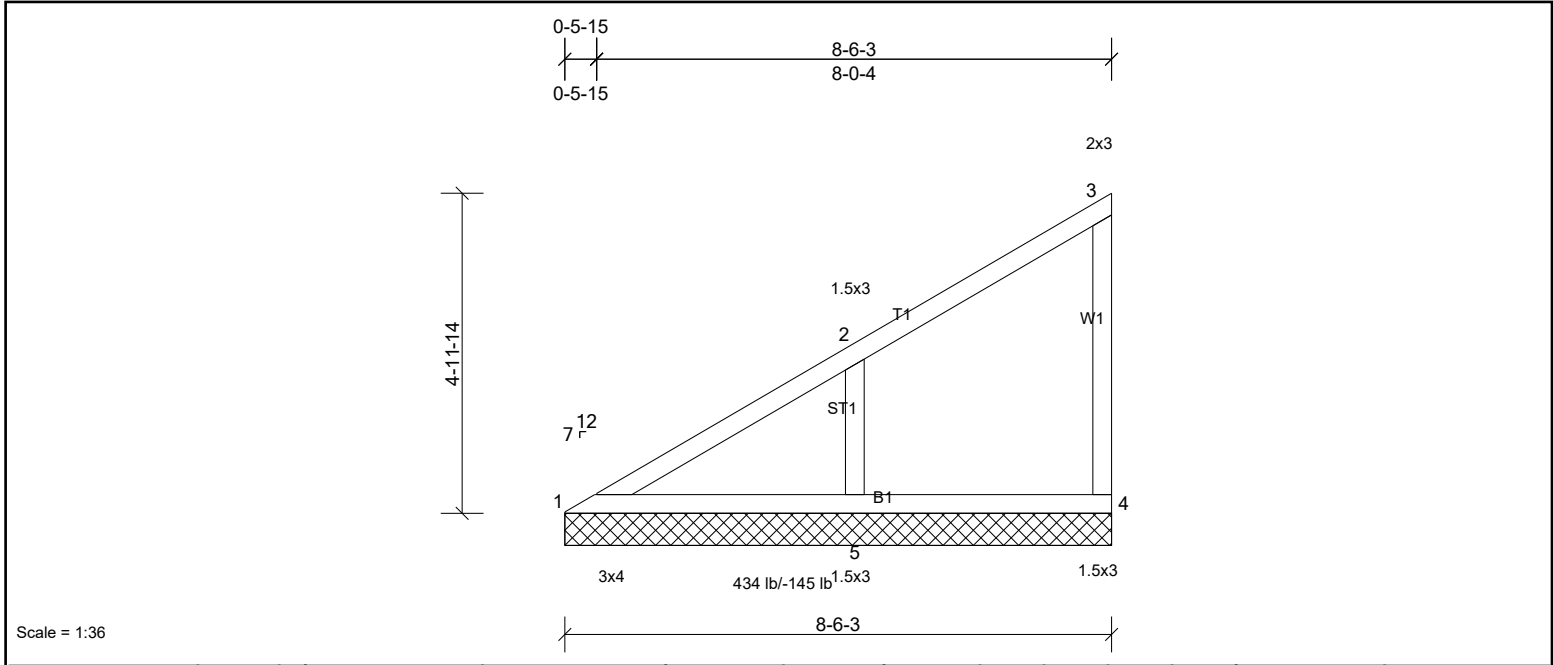
Job 21013422	Truss V4	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Page: 1

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Scale = 1:36

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 36 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

**REACTIONS**

(lb/size) 1=145/8-6-3, (min. 0-1-8), 4=112/8-6-3, (min. 0-1-8), 5=414/8-6-3, (min. 0-1-8)

Max Horiz 1=184 (LC 7)

Max Uplift 4=-33 (LC 7), 5=-145 (LC 10)

Max Grav 1=156 (LC 18), 4=129 (LC 17), 5=434 (LC 17)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-309/182

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 4 and 145 lb uplift at joint 5.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.





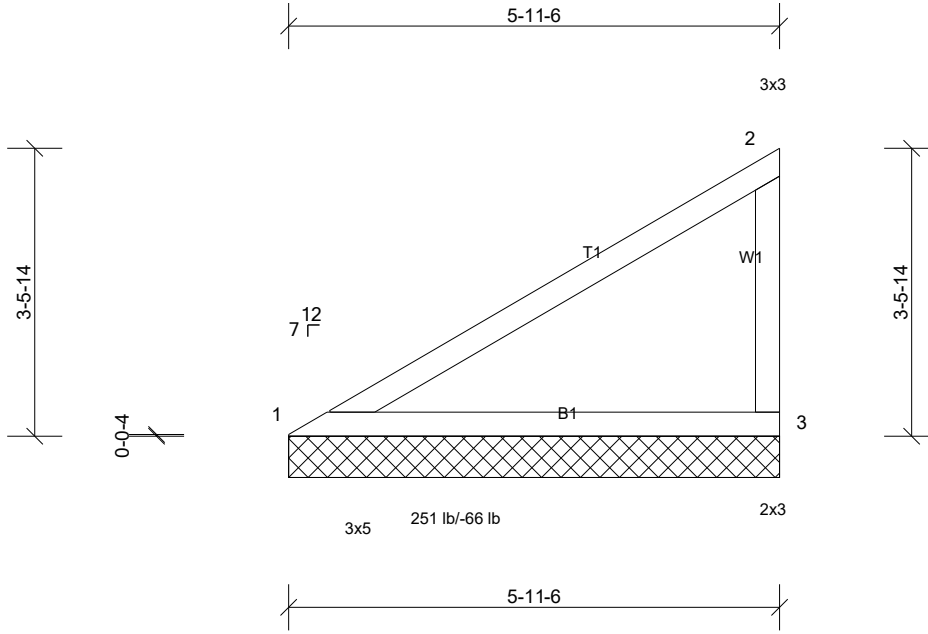
Job 21013422	Truss V5	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Page: 1

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Scale = 1:28

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 22 lb FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-11-6 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	1=232/5-11-6, (min. 0-1-8), 3=232/5-11-6, (min. 0-1-8)
Max Horiz	1=125 (LC 7)	
Max Uplift	1=-29 (LC 10), 3=-66 (LC 10)	
Max Grav	1=232 (LC 1), 3=251 (LC 17)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-367/76
BOT CHORD	1-3=-92/347

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 3 and 29 lb uplift at joint 1.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



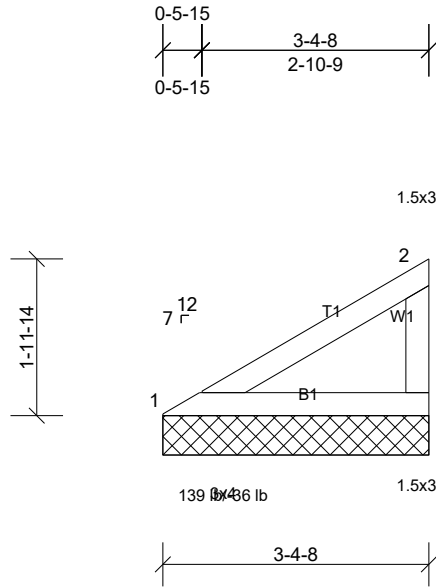
Job 21013422	Truss V6	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Fri Feb 05 12:34:41

Page: 1

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Scale = 1:29.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(lb/size) 1=129/3-4-8, (min. 0-1-8), 3=129/3-4-8, (min. 0-1-8)  
 Max Horiz 1=66 (LC 7)  
 Max Uplift 1=-17 (LC 10), 3=-36 (LC 10)  
 Max Grav 1=129 (LC 1), 3=139 (LC 17)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 3 and 17 lb uplift at joint 1.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)**

Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

