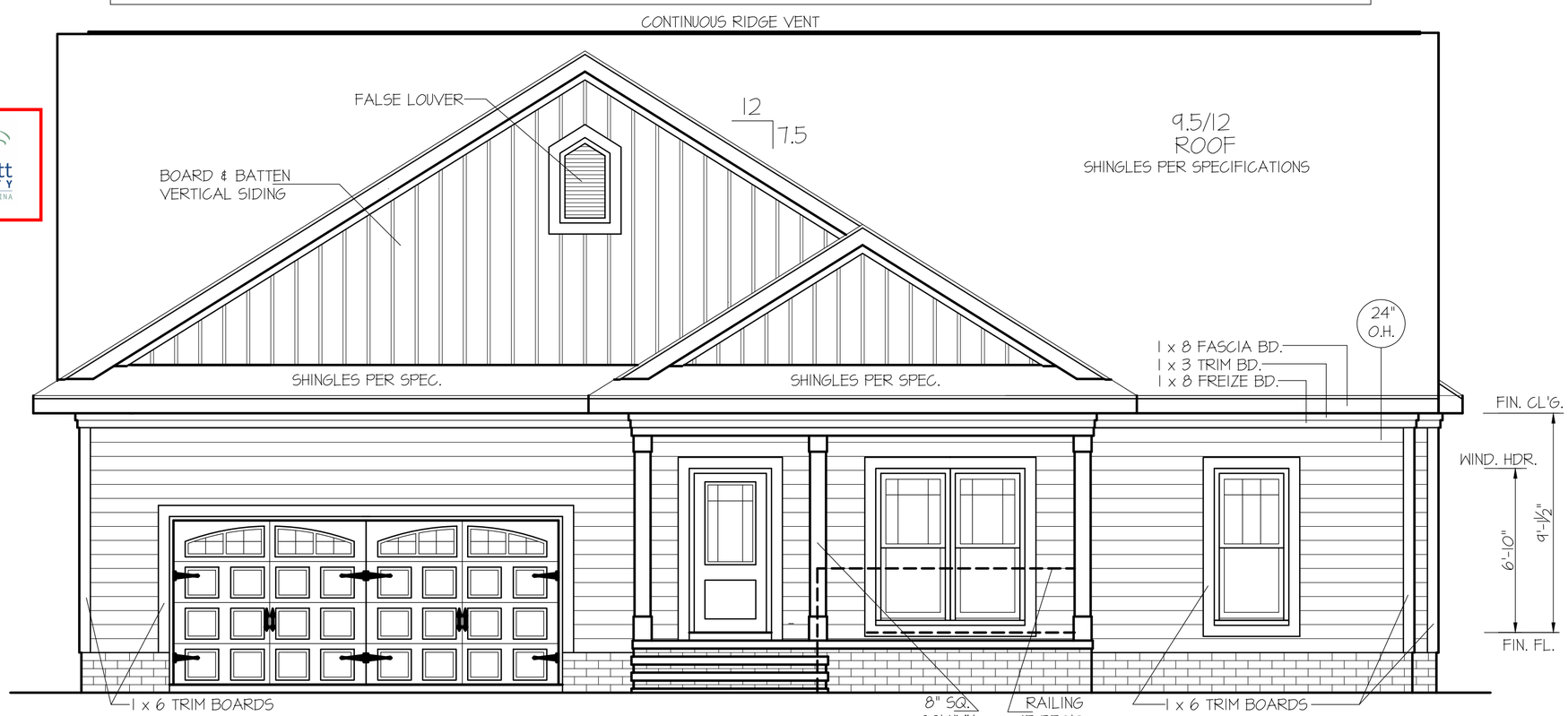
THIS PLAN IS DESIGNED TO MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION

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
07/25/2023
Harnett COUNTY NORTH CAROLINA



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

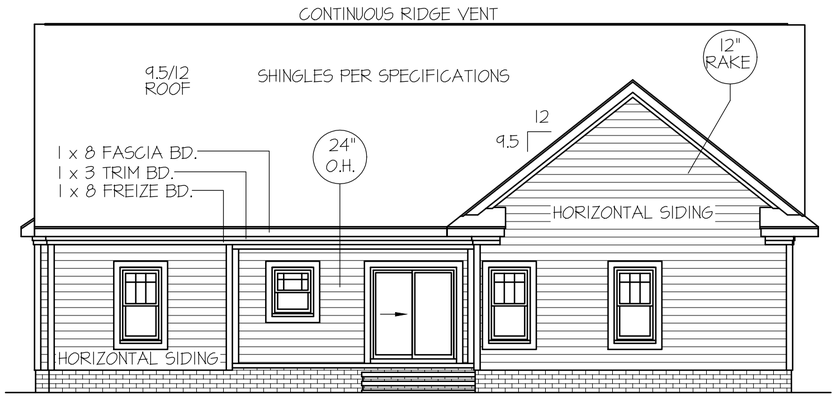
WIND ZONES (PER TABLE R301.2(4))	
COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

ROOF VENTILATION REQ'MTS.
2217 ATTIC SQ. FT. / 300 = 7.39

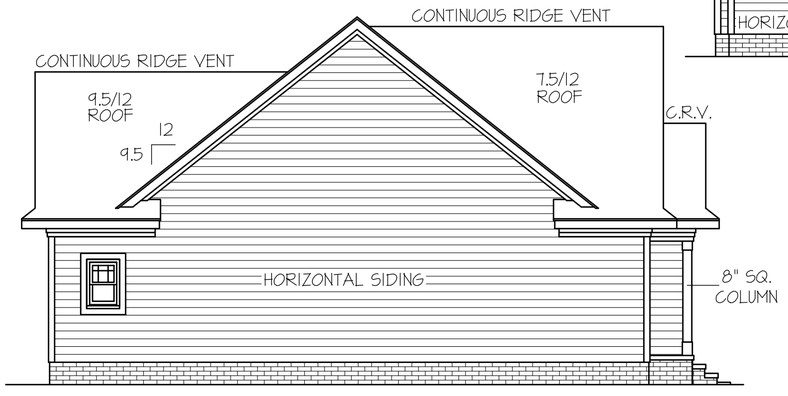
PROVIDED ON PLAN
93 L.F. RIDGE VENT = 17.43
134 L.F. SOFFIT VENT = 8.37
TOTAL = 25.8 S.F. FREE NET AREA

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

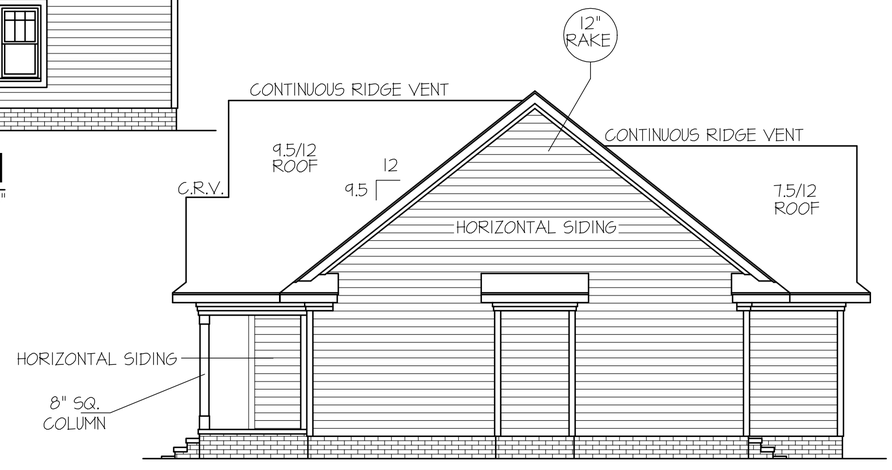
INSULATION and FENESTRATION REQUIREMENTS		
CLIMATE ZONE	ZONE-3	ZONE-4
FENESTRATION U-FACTOR	0.35	0.35
GLAZED FENESTRATION SHGC	0.30	0.30
MINIMUM CEILING R-VALUE	R-38	R-38
MINIMUM WALL R-VALUE	R-15, 13+2.5	R-15, 13+2.5
MINIMUM FLOOR R-VALUE	R-19	R-19
MIN. CRAWL SPACE WALL R-VALUE	5/13	10/15
MIN. SLAB R-VALUE	0	R-10
PROVIDE STEPS AS REQUIRED GRADE MAY VARY - BUILDER TO VERIFY		



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



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



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

DISK FILE NO. CF FILE NAME "FARMHOUSE-II" APRIL~ 2023

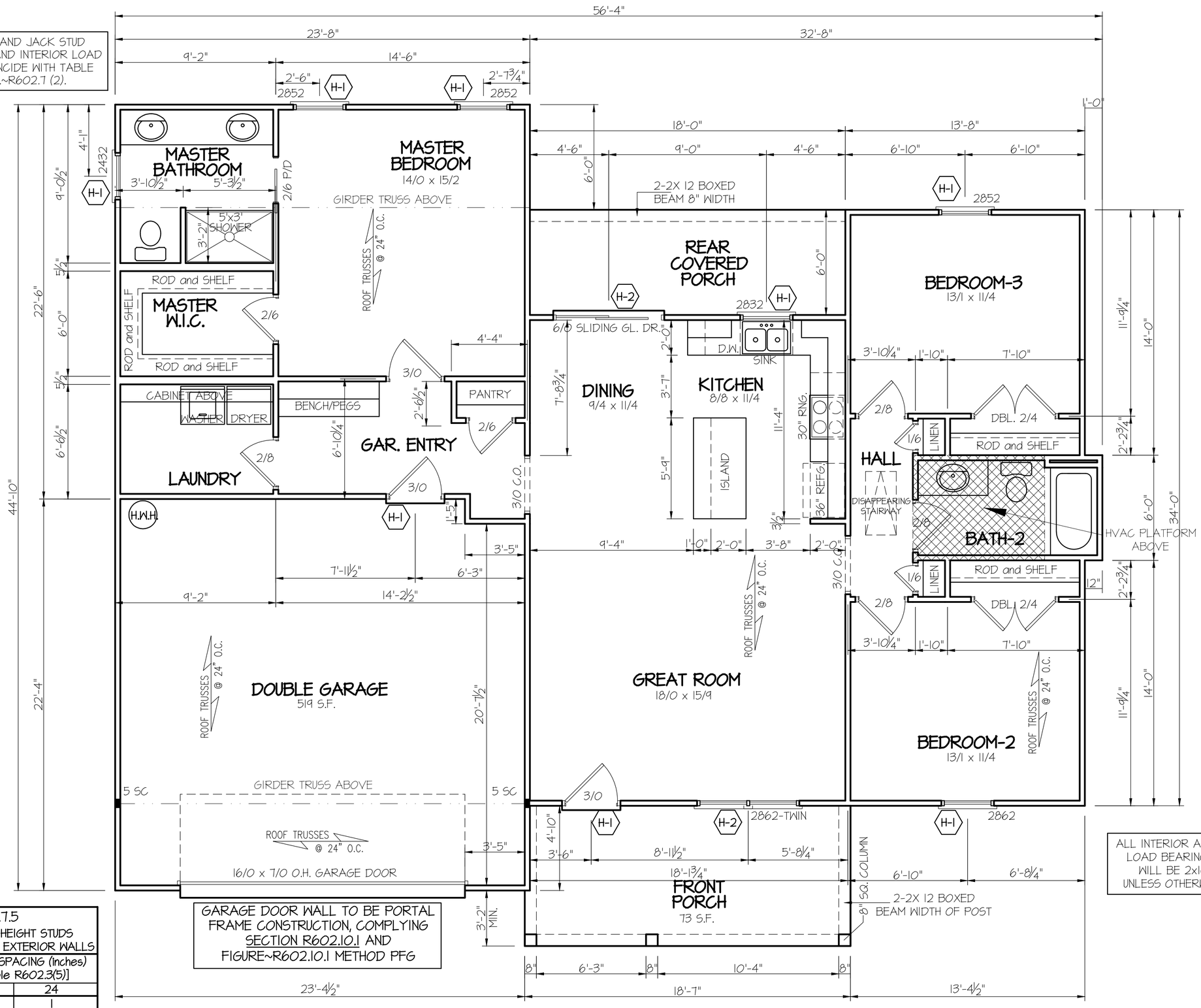
DATE:
MAY 1, 2023

WELLONS HOMES
P.O. BOX 730
DUNN, N.C. - 28335
O: (910) 892-3123 FAX: (910) 892-5032

PLAN:
FARMHOUSE~II
(GARAGE LEFT)

SHEET NO.
1

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

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

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

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

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 9.25 LVL	3

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.

WIND ZONES (PER TABLE R301.2(4)

COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

FLOOR-FRAME HEATED S.F. = 1517 s.f.
DOUBLE GARAGE = 519 s.f.
FRONT PORCH = 73 s.f.
REAR PORCH = 108 s.f.

9' CEILINGS (UNLESS OTHERWISE NOTED)

FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

DISK FILE NO. CF FILE NAME "FARMHOUSE-II" APRIL~ 2023

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O: (910) 892-3123 FAX: (910) 892-5032

PLAN: FARMHOUSE~II (GARAGE LEFT)

SHEET NO.
2

N.C. SPECIFIC
COMcheck or ASHRAE 90.1
2013 COMcheck SHALL BE PERMITTED
TO DEMONSTRATE COMPLIANCE
WITH THE N.C. 2018 ENERGY
CONSERVATION CODES.
(SECTION C401.2 (3)

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

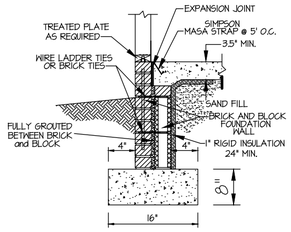


FIGURE R403(1)
GROUND SUPPORT SLAB
WITH MASONRY WALL
AND SPREAD FOOTING

HOUSE CONCRETE SLAB ON GRADE FOOTING AND WALL SECTION
1/2" = 1'-0"

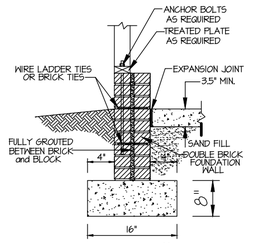


FIGURE R403(1)
GROUND SUPPORT SLAB
WITH MASONRY WALL
AND SPREAD FOOTING

GARAGE CONCRETE SLAB ON GRADE FOOTING AND WALL SECTION
1/2" = 1'-0"

N.C. SPECIFIC
COMcheck or ASHRAE 90.1
2013 COMcheck SHALL BE PERMITTED
TO DEMONSTRATE COMPLIANCE
WITH THE N.C. 2018 ENERGY
CONSERVATION CODES.
(SECTION C401.2 (3)

56'-4"
23'-8"
31'-8"
1'-0"
18'-0"
13'-8"
4'-6"
13'-6"

TYPICAL 16" WIDE x 8" DEEP
CONTINUOUS CONC. FOOTING

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).

MASTER BATHROOM
5'x3' SHOWER
3'-2"
5'-10½"
9'-0½"
5½"
3'-10½"
5'-3½"
9'-2"
6'-0"
TYP. 36"x36"x12" CONCRETE FT'G.
22'-6"
48'-0"
44'-10"

WASHER DRYER
LAUNDRY
5½"
6'-6½"
9'-2"

TYP. 36"x36"x12" CONCRETE FT'G.
12'-0"
5'-10½"
6'-0"
8" TOE FOOTING AS REQ'D.

REAR
COVERED PORCH
4" CONCRETE SLAB
ON GRADE AS REQ'D.
4'-6"
OUTSIDE FRAME LINE
6'-0"
6'-0"
6/0 SLIDER

4" CONCRETE SLAB
3000 P.S.I.
6x6 NO. 10 WIRE MESH
4" SAND OR CRUSHED ROCK
6 MIL. POLY. VAPOR BARRIER

D.W.
SINK
KITCHEN
5'-10½"
11'-9¼"
30" RNG.
36" REFG.
5'-9"
PROVIDE ELEC. CONDUIT TO ISLAND
ISLAND
HALL
14'-1¾"
14'-0"
3'-3½"
BATH-2
5'-8½"
5'-0"
2'-0"
5'-9¾"
3'-10¼"
9'-8"
6'-0"
34'-0"
48'-0"

2/8
1'-5"
2'-10"
3'-5"
19'-1½"

DOUBLE GARAGE
4" CONCRETE SLAB
FLOOR ON GRADE SLOPED TOWARD
GARAGE DOORS AS REQ'D.
22'-4"
13¾"
TYP. 36"x36"x12" CONCRETE FT'G.
4'-11¾"
3'-2"
3'-8½"
16'-3"
3'-5"
23'-4½"

TYP. 36"x36"x12" CONCRETE FT'G.
13¾"
4'-11¾"
3/0
OUTSIDE FRAME LINE
FRONT
COVERED PORCH
4" CONCRETE SLAB
ON GRADE AS REQ'D.
3½"
8'-0"
8'-0"
8" TOE FOOTING AS REQ'D.
8'-0"
3'-2"
18'-7"
13'-4½"
1'-0"
56'-4"

SLAB NOTES:
USE 4" CONCRETE SLAB ON FILL AS REQ'D.
PROVIDE ANCHOR BOLTS AROUND PERIMETER OF HOUSE
TREAT SOIL FOR TERMITES AS REQ'D. BY LOCAL/STATE CODES.
HOLD GARAGE SLAB 4" MIN. BELOW HOUSE SLAB
PROVIDE STEPS AS REQ'D.

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 (1829 mm) ON CENTER (VERIFY ZONE) 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.

FLOOR-FRAME HEATED S.F. = 1517 s.f.
DOUBLE GARAGE = 519 s.f.
FRONT PORCH = 73 s.f.
REAR PORCH = 108 s.f.

SLAB
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

DISK FILE NO. CF FILE NAME "FARMHOUSE-II" APRIL~ 2023

DATE:
MAY 1, 2023

WELLONS HOMES
P.O. BOX 730
DUNN, N.C. – 28335
O: (910) 892-3123 FAX: (910) 892-5032

PLAN:
FARMHOUSE~II
(GARAGE LEFT)

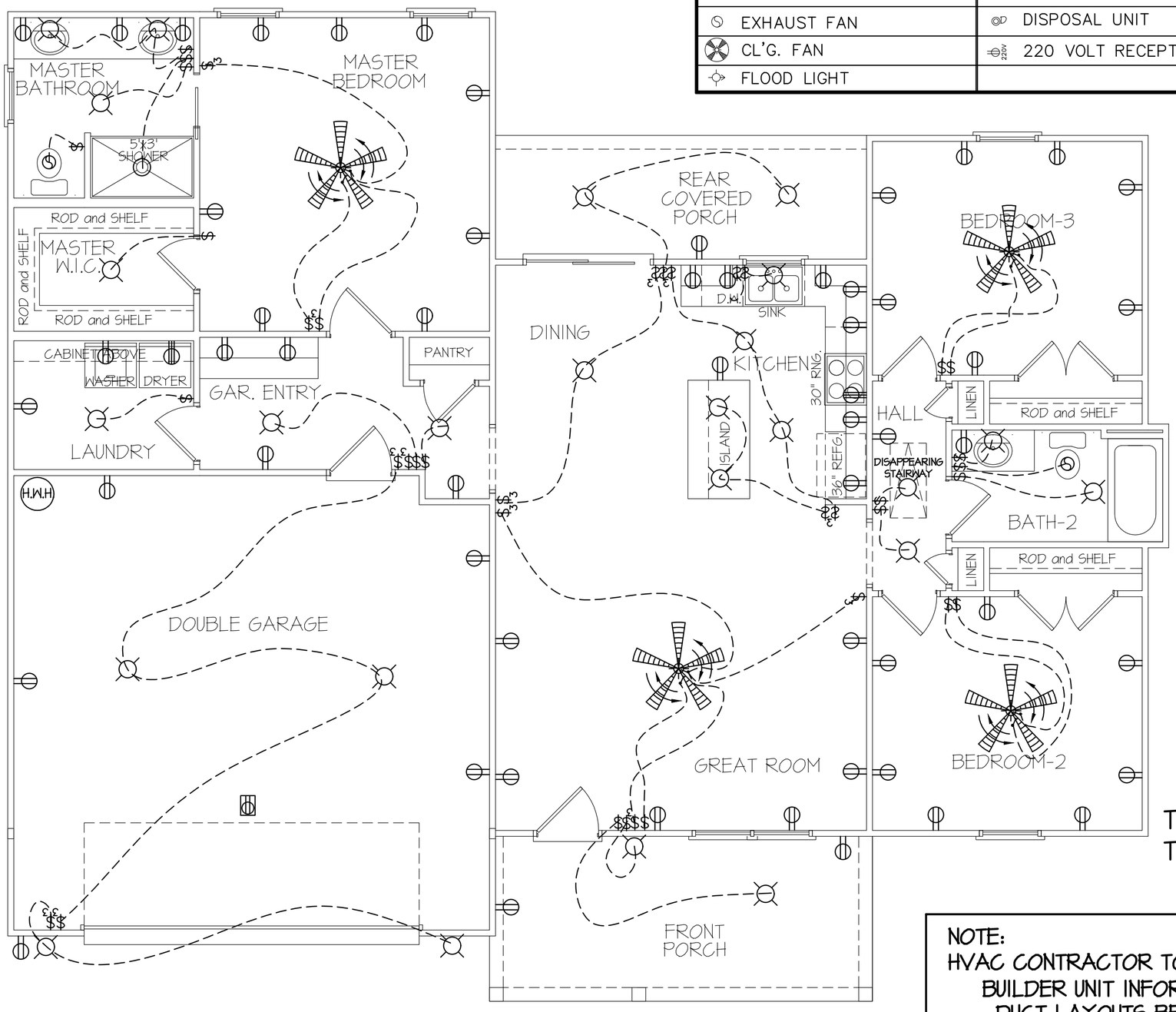
SHEET NO.
3 SLAB

WHEN SLAB FOUNDATION PLAN IS USED
BUILDERS ARE TO ADJUST HEATING AND COOLING SYSTEM
USE UNIT LOCATED IN ATTIC AREA AND FEED
DUCTS AND RETURNS THRU ATTIC AREAS AND FLOOR SYSTEM AREAS

ELECTRICAL LEGEND

PROVIDE BURGLAR/SMOKE AND FIRE DETECTORS AS PER MANUFACTURER'S SPECIFICATIONS.
PROVIDE CENTRAL VACCUUM SYSTEM AS PER MANU-FACTURER'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		



ELECTRICAL & HVAC FLOOR PLAN

SCALE: 1/4" = 1'-0"

FLOOR-FRAME HEATED S.F. = 1517 s.f.
DOUBLE GARAGE = 519 s.f.
FRONT PORCH = 73 s.f.
REAR PORCH = 108 s.f.

TOTAL HEAT GAIN = 24,424 B.T.U.H.
TOTAL HEAT LOSS = 38,608 B.T.U.H.

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

DATE:
MAY 1, 2023

WELLONS HOMES
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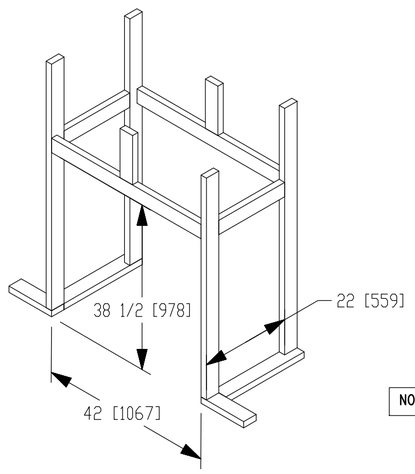
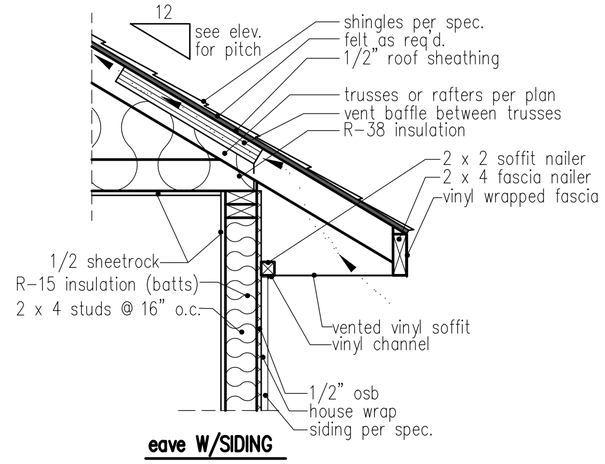
O: (910) 892-3123 FAX: (910) 892-5032

PLAN: FARMHOUSE~II (GARAGE LEFT)

SHEET NO. 4

DISK FILE NO. CF FILE NAME "FARMHOUSE-II" APRIL~ 2023

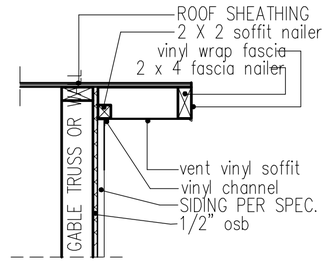




eave W/SIDING

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

standard eave details



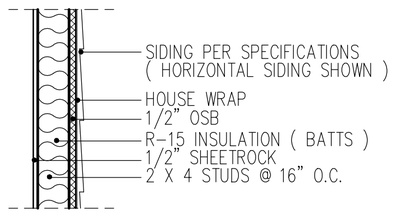
RAKE w/SIDING

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

DIMENSIONS IN [ ] ARE MM

SPECIFICATIONS										
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.

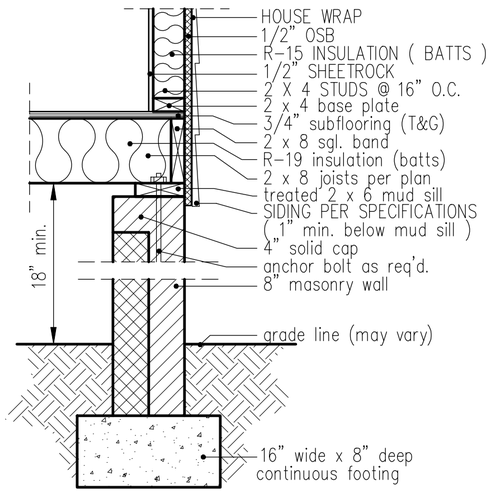


WALL W/siding

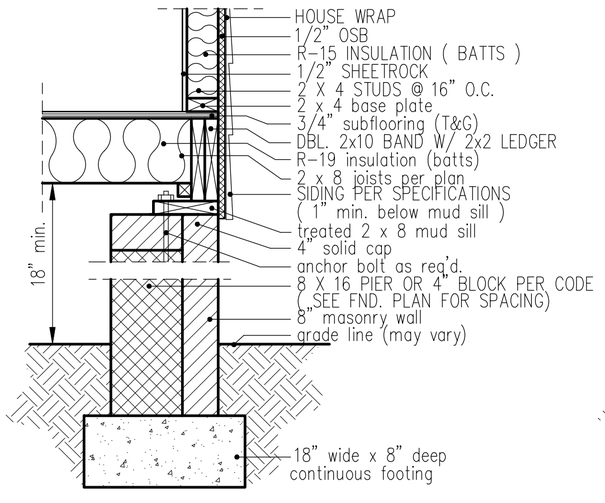
TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS		
HEADER SPAN (feet)	MAX. STUD SPACING (inches) [per Table R602.3(5)]	
	16	24
< 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

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).

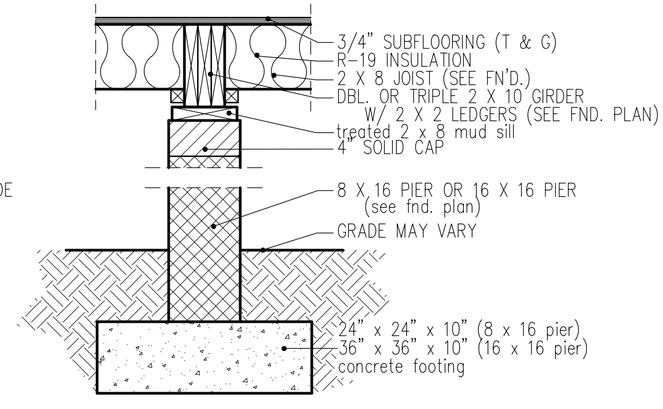
intermediate wall details



8" BOX SILL FOUNDATION WALL



PIER and CURTAIN FOUNDATION WALL



PIER and GIRDER DETAIL

WELLONS HOMES
P.O. BOX 730
DUNN, N.C. - 28335
O: (910) 892-3123 FAX: (910) 892-5032

DATE:
MAY 1, 2023

PLAN:
FARMHOUSE~II
(GARAGE LEFT)

SHEET NO.
5

DISK FILE NO. CF FILE NAME "FARMHOUSE" MAY~ 2021

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	G1	Common Structural Gable	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:51 2023 Page 1

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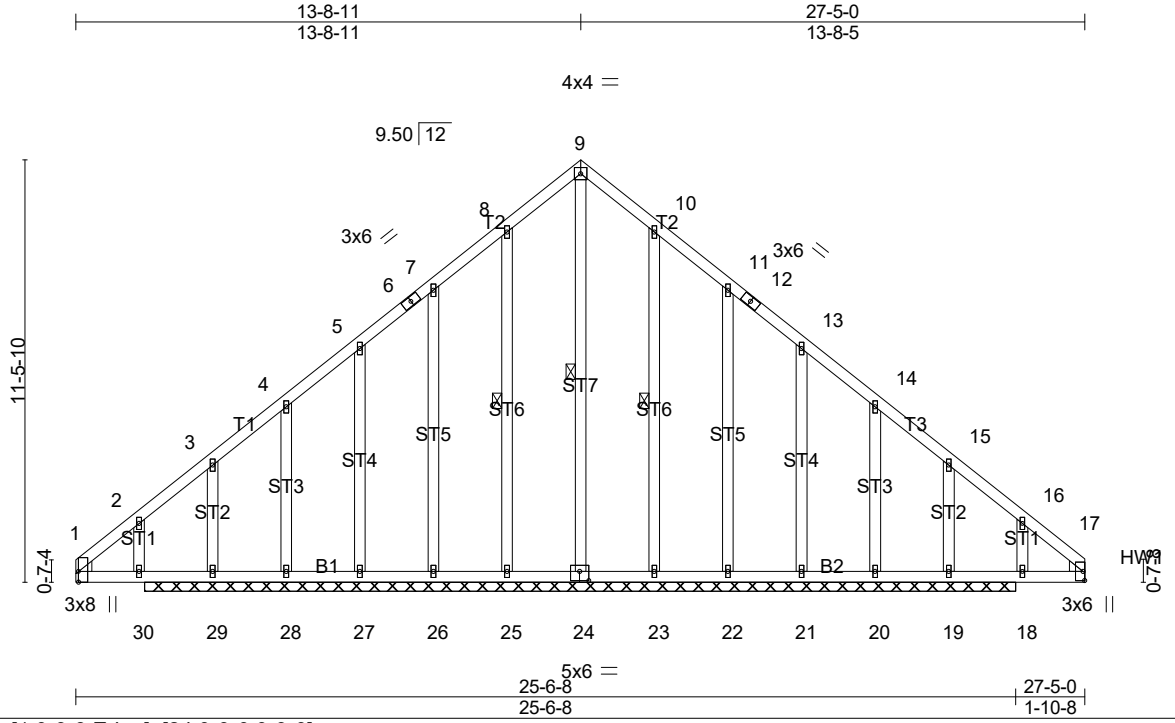

Plate Offsets (X,Y)-- [1:0-3-8,Edge], [24:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	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	0.41	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.01	19	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 207 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-24, 8-25, 10-23

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 23-8-0.
(lb) - Max Horz 29=-268(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 25, 26, 27, 23, 22, 21 except 28=-265(LC 7), 29=-168(LC 4), 20=-261(LC 6), 19=-164(LC 5)
Max Grav All reactions 250 lb or less at joint(s) 25, 26, 27, 23, 22, 21 except 24=358(LC 2), 28=359(LC 6), 29=485(LC 14), 20=358(LC 7), 19=479(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-89/264, 2-3=-48/270, 3-4=-125/273, 7-8=0/261, 8-9=0/312, 9-10=0/311, 10-11=0/260, 14-15=-123/271, 15-16=-48/268, 16-17=-90/264
WEBS 9-24=-327/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=27ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 27, 23, 22, 21 except (jt=lb) 28=265, 29=168, 20=261, 19=164.

Continued on page 2

NOTES-

9) Non Standard bearing condition. Review required.

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	G2	Common Supported Gable	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:53 2023 Page 1

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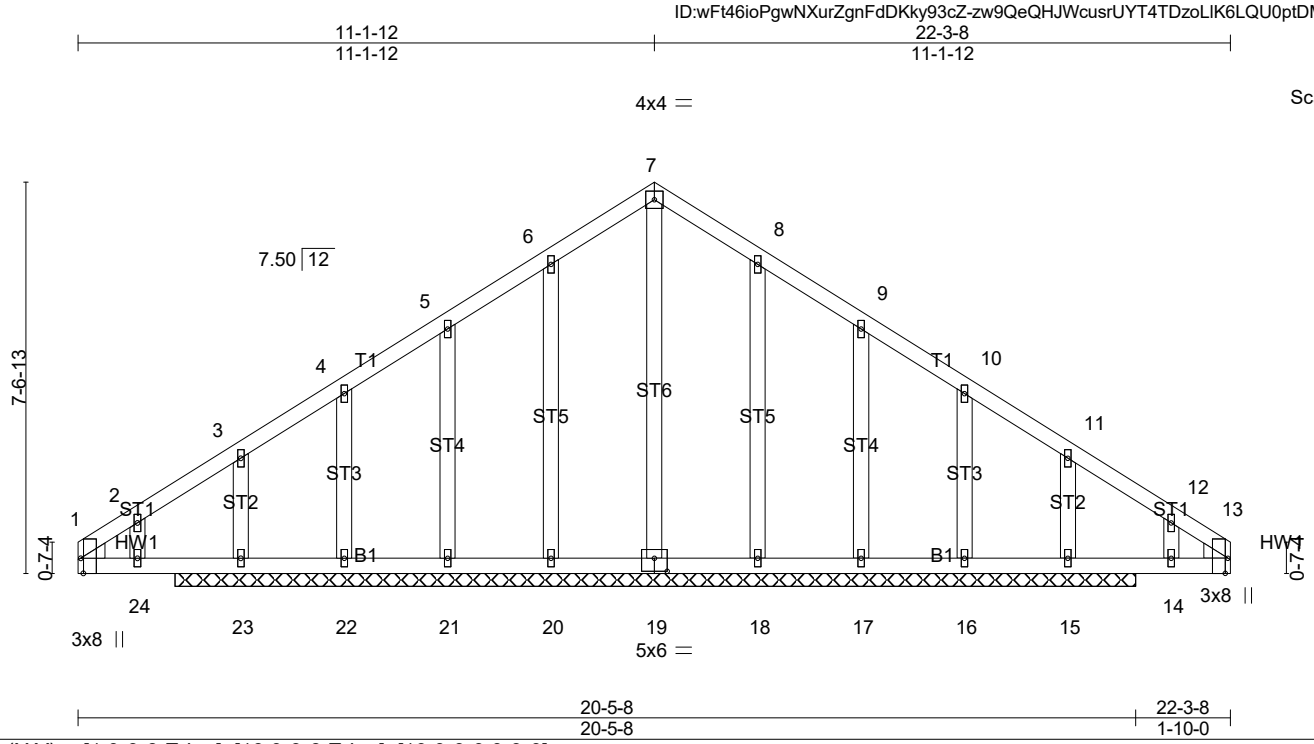

Plate Offsets (X,Y)-- [1:0-3-8,Edge], [13:0-3-8,Edge], [19:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	-0.00	15	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 133 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 18-7-0.
(lb) - Max Horz 23=160(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 22, 18, 17, 16, 15 except 23=-101(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 18, 17, 16 except 19=334(LC 2), 23=366(LC 19), 15=366(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 7-19=-262/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 22, 18, 17, 16, 15 except (jt=lb) 23=101.
9) Non Standard bearing condition. Review required.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	GR1	Common Girder	1	3	Job Reference (optional)

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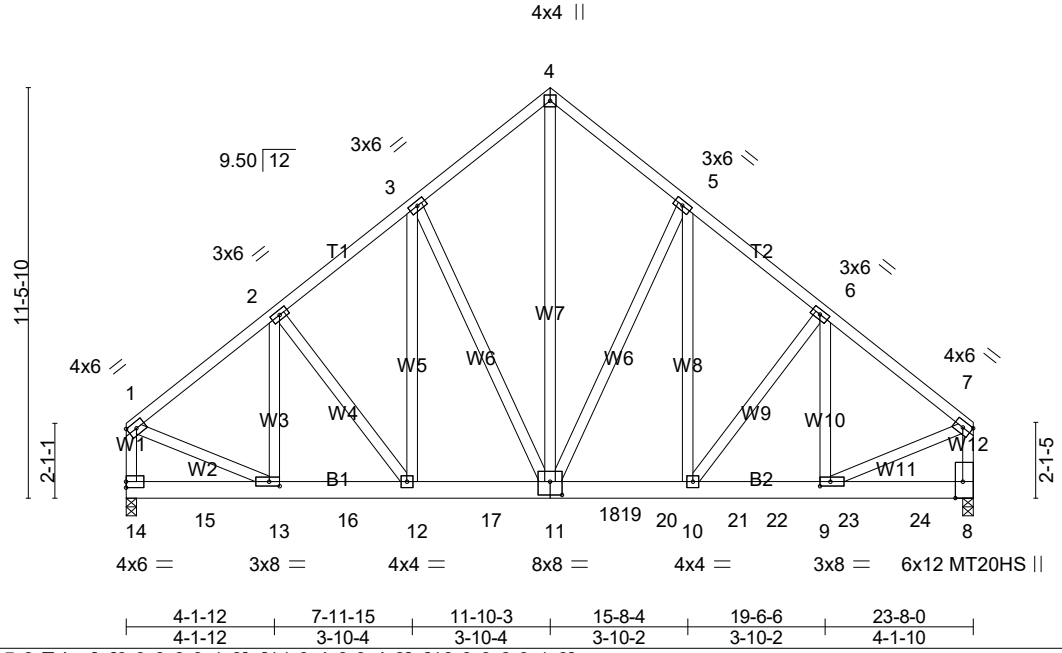
ID:wFt46ioPgwNXurZgnFdDKky93cZ-vJHA36Ja2D8a4oisCuFRtmrcL83wUakWpNxKvbyyob_

4-1-12	7-11-15	11-10-3	15-8-4	19-6-6	23-8-0
4-1-12	3-10-4	3-10-4	3-10-2	3-10-2	4-1-10

Scale: 3/16"=1'



4-1-12	7-11-15	11-10-3	15-8-4	19-6-6	23-8-0
4-1-12	3-10-4	3-10-4	3-10-2	3-10-2	4-1-10

Plate Offsets (X,Y)-- [8:0-5-8,Edge], [9:0-3-8,0-1-8], [11:0-4-0,0-4-8], [13:0-3-8,0-1-8]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL 20.0		Plate Grip DOL 1.15	TC 0.49		Vert(LL)	-0.06	11-12	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.40		Vert(CT)	-0.12	11-12	>999	240	MT20HS	187/143
BCLL 0.0	*	Rep Stress Incr NO	WB 0.82		Horz(CT)	0.02	8	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.05	11-12	>999	240	Weight: 638 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 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. (lb/size) 14=6783/0-3-8 (min. 0-2-11), 8=6998/0-3-8 (min. 0-2-12)
Max Horz 14=281(LC 7)
Max Uplift14=-495(LC 8), 8=-510(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6444/514, 2-3=-6198/559, 3-4=-5059/535, 4-5=-5059/535, 5-6=-6151/556, 6-7=-6424/513, 1-14=-6243/478, 7-8=-6247/479
BOT CHORD 14-15=-274/355, 13-15=-274/355, 13-16=-375/4991, 12-16=-375/4991, 12-17=-316/4799, 17-18=-316/4799, 11-18=-316/4799, 11-19=-261/4763, 19-20=-261/4763, 10-20=-261/4763, 10-21=-301/4975, 21-22=-301/4975, 9-22=-301/4975
WEBS 2-13=-214/285, 2-12=-344/101, 3-12=-177/2344, 3-11=-2051/257, 4-11=-580/5934, 5-11=-1972/251, 5-10=-170/2245, 6-10=-380/104, 6-9=-217/317, 1-13=-334/5297, 7-9=-333/5277

NOTES-
1) 3-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 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

NOTES-

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=495, 8=510.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1083 lb down and 86 lb up at 2-0-12, 1083 lb down and 86 lb up at 4-0-12, 1083 lb down and 86 lb up at 6-0-12, 1083 lb down and 86 lb up at 8-0-12, 1083 lb down and 86 lb up at 10-0-12, 1083 lb down and 86 lb up at 12-0-12, 1083 lb down and 86 lb up at 14-0-12, 1083 lb down and 86 lb up at 16-0-12, 1083 lb down and 86 lb up at 18-0-12, and 1083 lb down and 86 lb up at 20-0-12, and 1083 lb down and 86 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-7=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-1083(F) 12=-1083(F) 11=-1083(F) 15=-1083(F) 16=-1083(F) 17=-1083(F) 20=-1083(F) 21=-1083(F) 22=-1083(F) 23=-1083(F) 24=-1083(F)

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	PB1	GABLE	2	1	Job Reference (optional)

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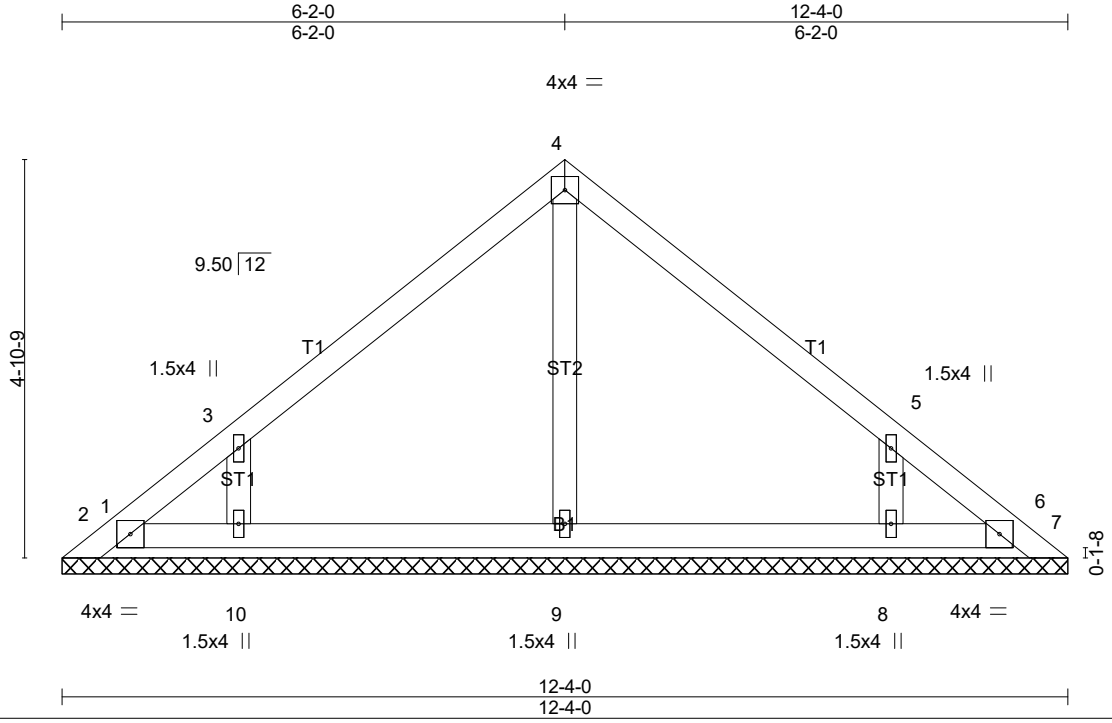

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 49 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-4-0.
(lb) - Max Horz 1=-111(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6 except
10=-103(LC 8), 8=-103(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9 except
10=329(LC 13), 8=327(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-263/144, 5-8=-261/144

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6 except (jt=lb) 10=103, 8=103.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	PB2	GABLE	27	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:57 2023 Page 1

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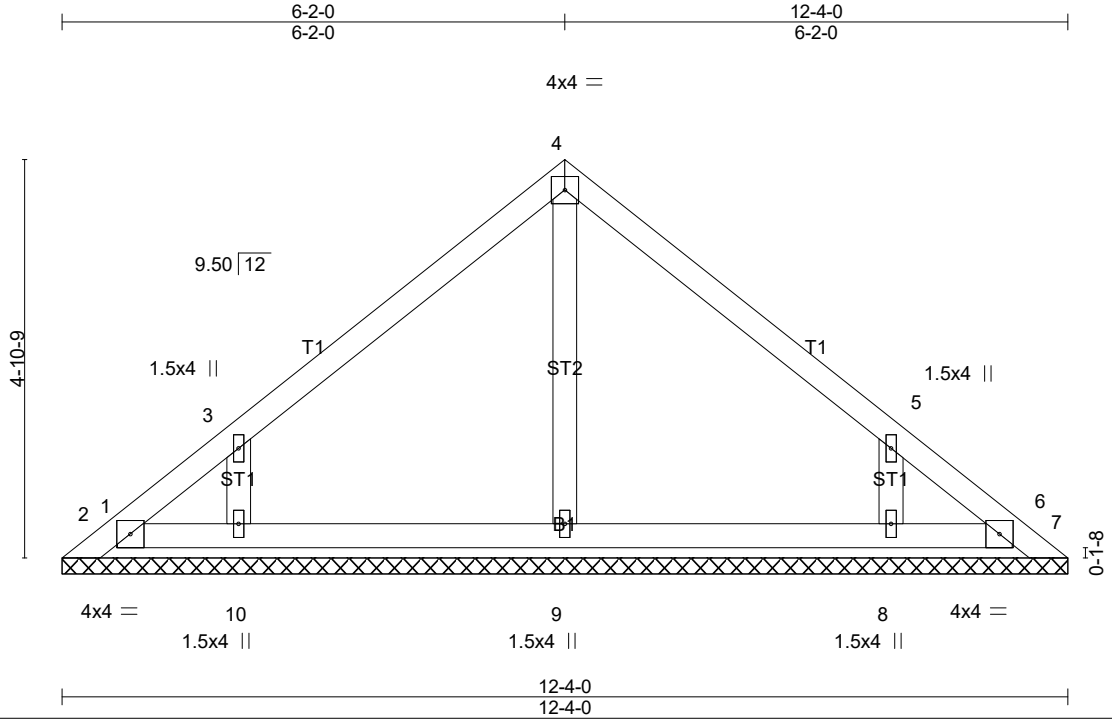

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 49 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-4-0.
(lb) - Max Horz 1=-111(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6 except
10=-103(LC 8), 8=-103(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9 except
10=329(LC 13), 8=327(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-263/144, 5-8=-261/144

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6 except (jt=lb) 10=103, 8=103.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	PB3	GABLE	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:58 2023 Page 1

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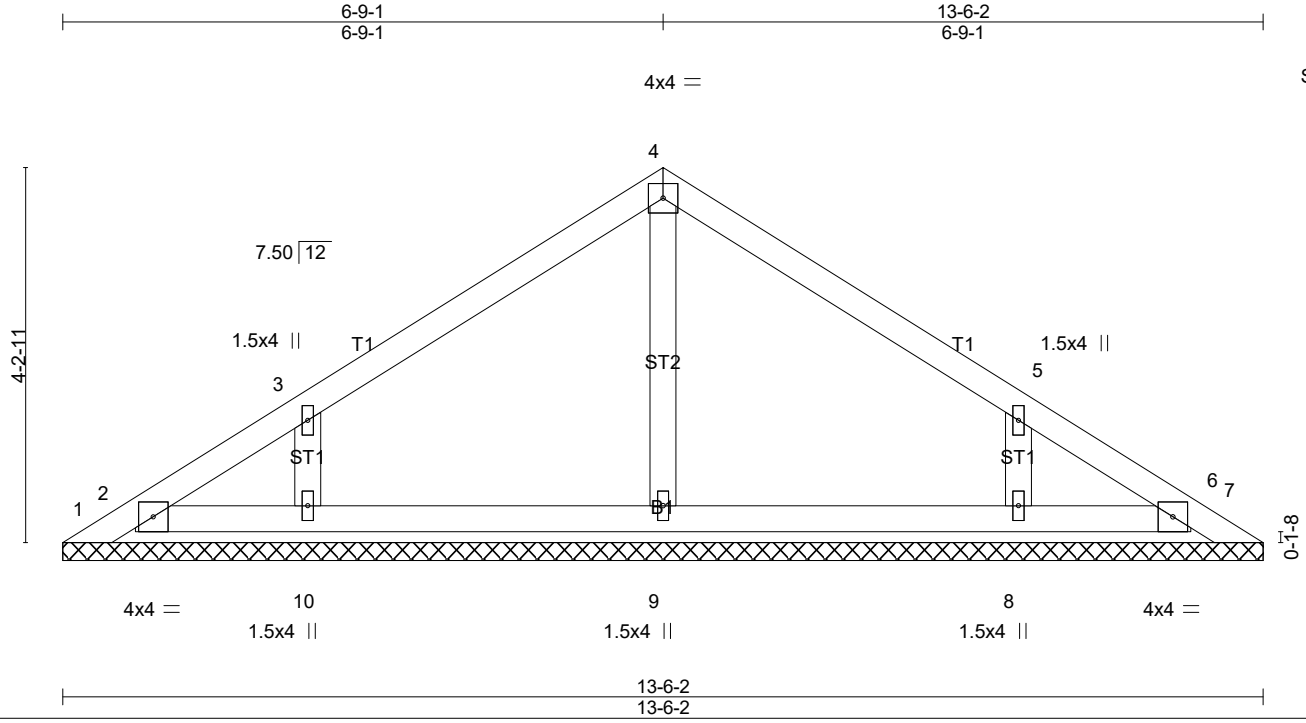

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 50 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 13-6-2.
(lb) - Max Horz 1=89(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except
9=263(LC 1), 10=306(LC 13), 8=305(LC 14)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10 , 8.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	PB4	GABLE	2	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:59 2023 Page 1

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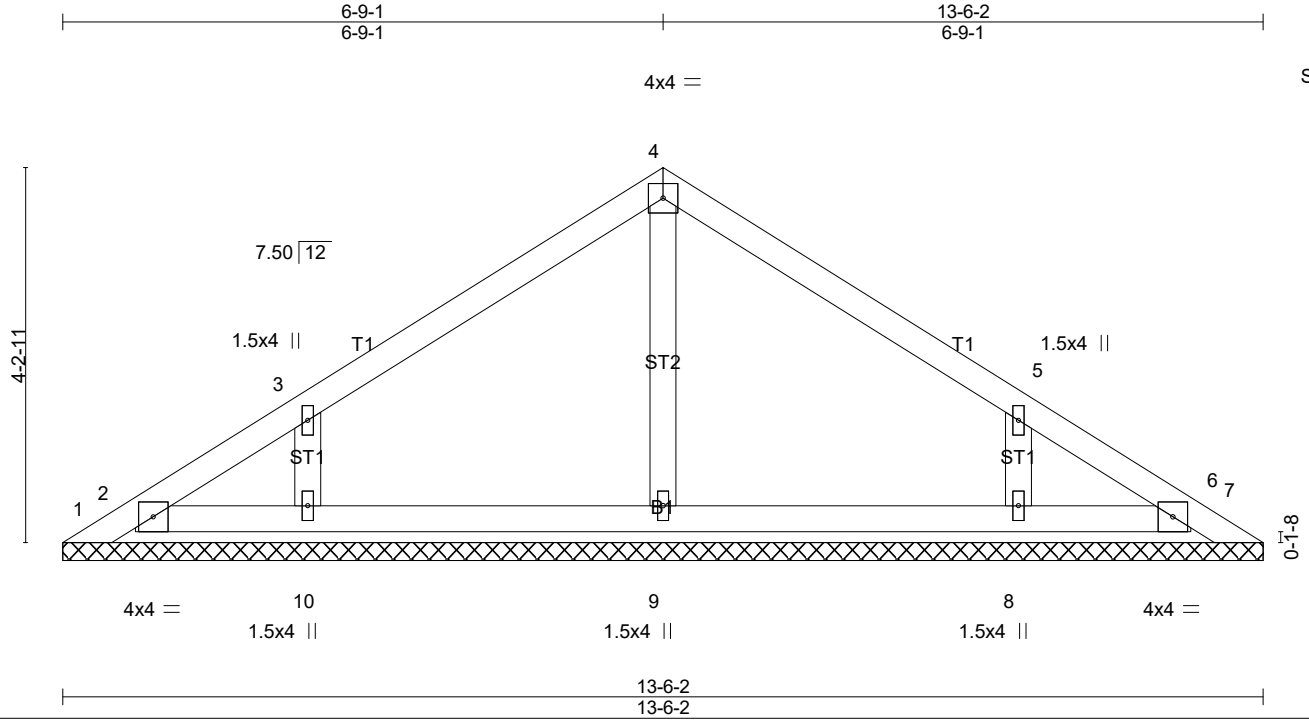

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 50 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 13-6-2.
(lb) - Max Horz 1=89(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except
9=263(LC 1), 10=306(LC 13), 8=305(LC 14)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10 , 8.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	PB5	GABLE	1	2	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:00 2023 Page 1
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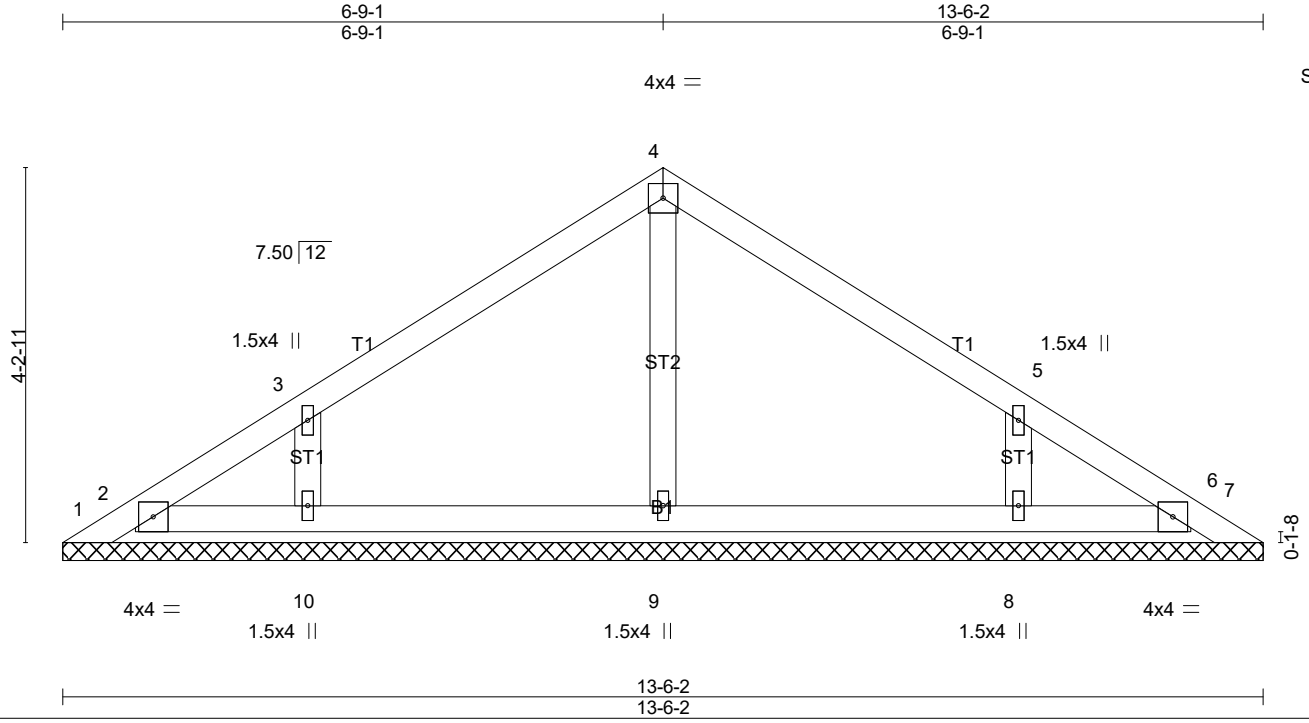


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 99 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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. All bearings 13-6-2.
(lb) - Max Horz 1=89(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except 9=263(LC 1), 10=306(LC 13), 8=305(LC 14)

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

NOTES-
1) 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: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 8.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Continued on page 2

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T1	Common	2	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:02 2023 Page 1

ID:wFt46ioPgwNXurZgnFdDKky93cZ-CfCqXVOzON1aQtkC6st4fFdtszT9dsiYQy8Behyyoat

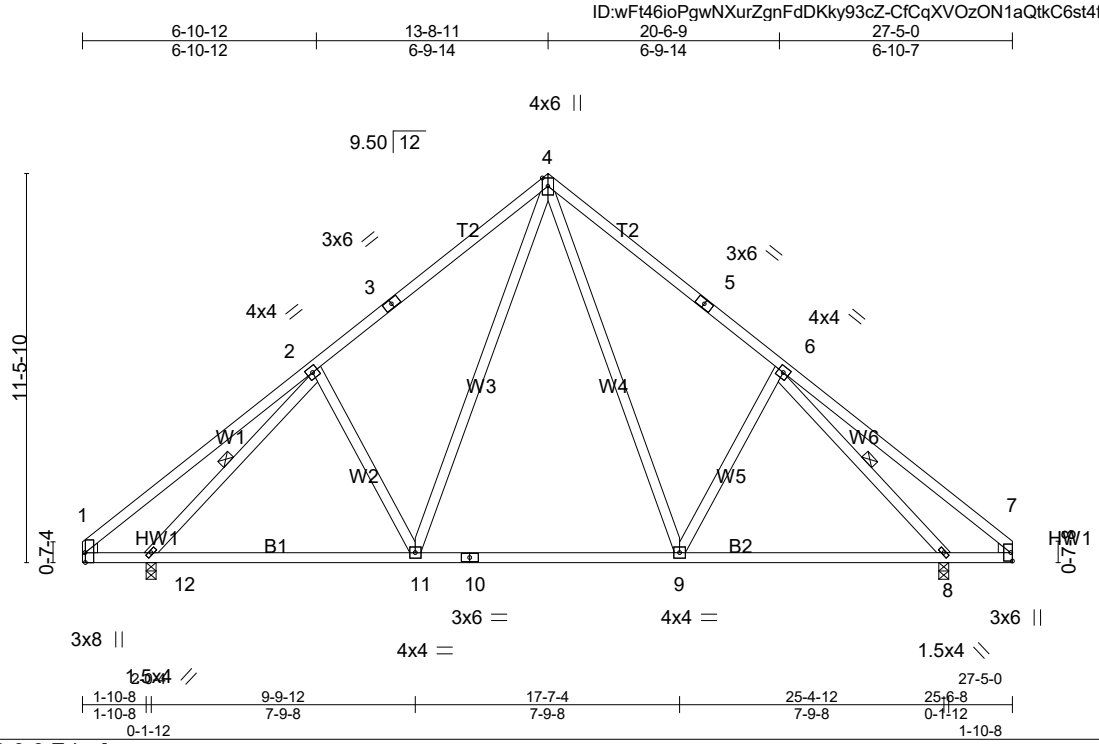


Plate Offsets (X,Y)-- [1:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.16	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.21	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.03	9-11	>999	240	Weight: 169 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-12, 6-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1097/0-3-8 (min. 0-1-8), 8=1097/0-3-8 (min. 0-1-8)
Max Horz 12=-262(LC 6)
Max Uplift12=-127(LC 8), 8=-83(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-972/182, 3-4=-856/229, 4-5=-853/230, 5-6=-970/183
BOT CHORD 11-12=-31/866, 10-11=0/629, 9-10=0/629, 8-9=-5/714
WEBS 4-11=-69/464, 4-9=-74/461, 2-12=-1111/129, 6-8=-1112/105

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 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 100 lb uplift at joint(s) 8 except (jt=lb) 12=127.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

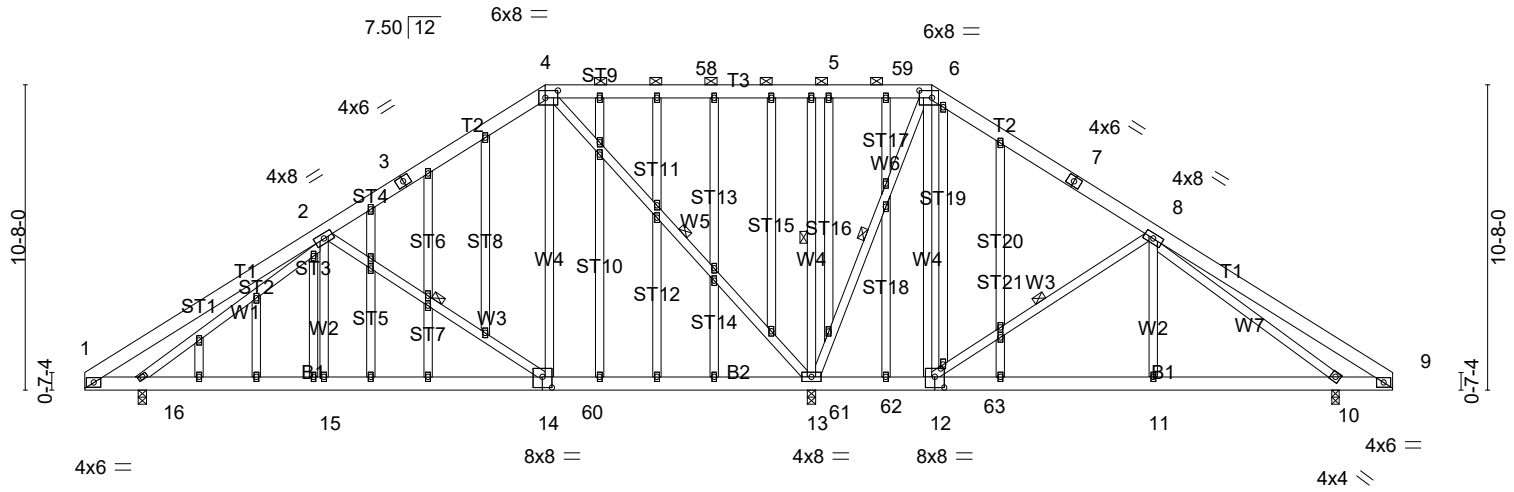
Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T2	GABLE	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:04 2023 Page 1

ID:wFt46ioPgwNXurZgnFdDKky93cZ-82JayBQDw_HIfAuaDHwYkgjBYn9Y5cWruGdIiZyyoar

8-4-6	16-1-3	25-4-12	29-7-5	37-4-2	45-8-8
8-4-6	7-8-13	9-3-9	4-2-9	7-8-13	8-4-6

Scale = 1:80.5



1-10-8	8-4-6	16-1-3	25-4-12	29-7-5	37-4-2	43-10-0	45-8-8
1-10-8	6-5-14	7-8-13	9-3-9	4-2-9	7-8-13	6-5-14	1-10-8

Plate Offsets (X,Y)-- [4:0-5-4,0-3-0], [6:0-5-4,0-3-0], [12:0-4-0,0-4-8], [14:0-4-0,0-4-8], [50:0-1-10,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.09	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.13	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.02	14-15	>999	240	Weight: 523 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 2-14, 4-13, 5-13, 6-13, 8-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1997/0-3-8 (min. 0-2-8), 16=951/0-3-8 (min. 0-1-8), 10=709/0-3-0 (min. 0-1-8)
Max Horz 16=-237(LC 6)
Max Uplift13=-159(LC 8), 16=-111(LC 8), 10=-51(LC 8)
Max Grav 13=2106(LC 13), 16=982(LC 19), 10=748(LC 20)

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

TOP CHORD	1-2=-307/59, 2-3=-603/105, 3-4=-502/150, 4-58=0/274, 5-58=0/274, 5-59=0/274, 6-59=0/274
BOT CHORD	15-16=-29/872, 14-15=-28/873, 14-60=0/509, 60-61=0/509, 13-61=0/509, 11-12=0/479, 10-11=0/478
WEBS	2-15=0/255, 2-14=-435/140, 4-14=0/570, 4-13=-1037/75, 5-13=-502/129, 6-13=-709/65, 6-12=-23/409, 8-12=-558/148, 8-11=0/300, 2-16=-786/50, 8-10=-512/2

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

NOTES-

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 13=159, 16=111.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

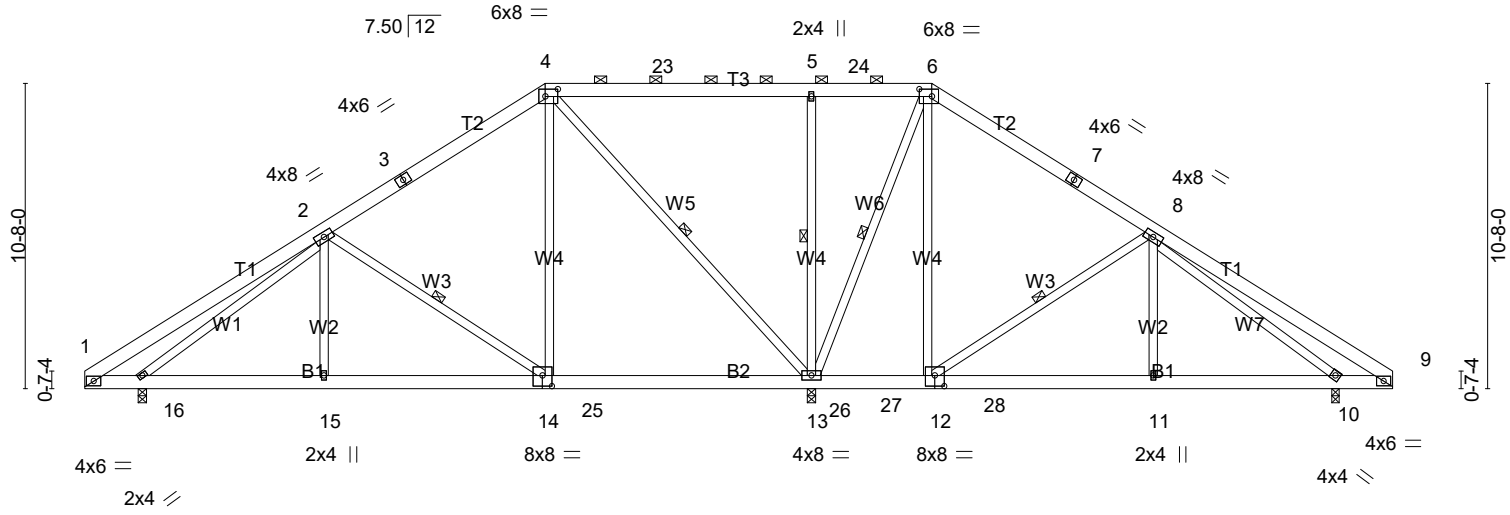
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T3	Piggyback Base	2	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:05 2023 Page 1
ID:wFt46ioPgwNXurZgnFdDKky93cZ-cEty9XRrhIP9HKTnn_RnHtFMIAVnq3m_6wMrE0yyoaq

8-4-6	16-1-3	25-4-12	29-7-5	37-4-2	45-8-8
8-4-6	7-8-13	9-3-9	4-2-9	7-8-13	8-4-6

Scale = 1:80.5



1-10-8	8-4-6	16-1-3	25-4-12	29-7-5	37-4-2	43-10-0	45-8-8
1-10-8	6-5-14	7-8-13	9-3-9	4-2-9	7-8-13	6-5-14	1-10-8

Plate Offsets (X,Y)-- [4:0-5-4,0-3-0], [6:0-5-4,0-3-0], [12:0-4-0,0-4-8], [14:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.09	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.13	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.02	14-15	>999	240	Weight: 372 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-14, 4-13, 5-13, 6-13, 8-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1997/0-3-8 (min. 0-2-8), 16=951/0-3-8 (min. 0-1-8), 10=709/0-3-0 (min. 0-1-8)
Max Horz 16=-237(LC 6)
Max Uplift 13=-159(LC 8), 16=-111(LC 8), 10=-51(LC 8)
Max Grav 13=2106(LC 13), 16=982(LC 19), 10=748(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-307/59, 2-3=-603/105, 3-4=-502/150, 4-23=0/274, 5-23=0/274, 5-24=0/274, 6-24=0/274
BOT CHORD 15-16=-29/872, 14-15=-28/873, 14-25=0/509, 25-26=0/509, 13-26=0/509, 11-12=0/479, 10-11=0/478
WEBS 2-15=0/255, 2-14=-435/140, 4-14=0/570, 4-13=-1037/75, 5-13=-502/129, 6-13=-709/65, 6-12=-23/409, 8-12=-558/148, 8-11=0/300, 2-16=-786/50, 8-10=-512/2

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 13=159, 16=111.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

NOTES-

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

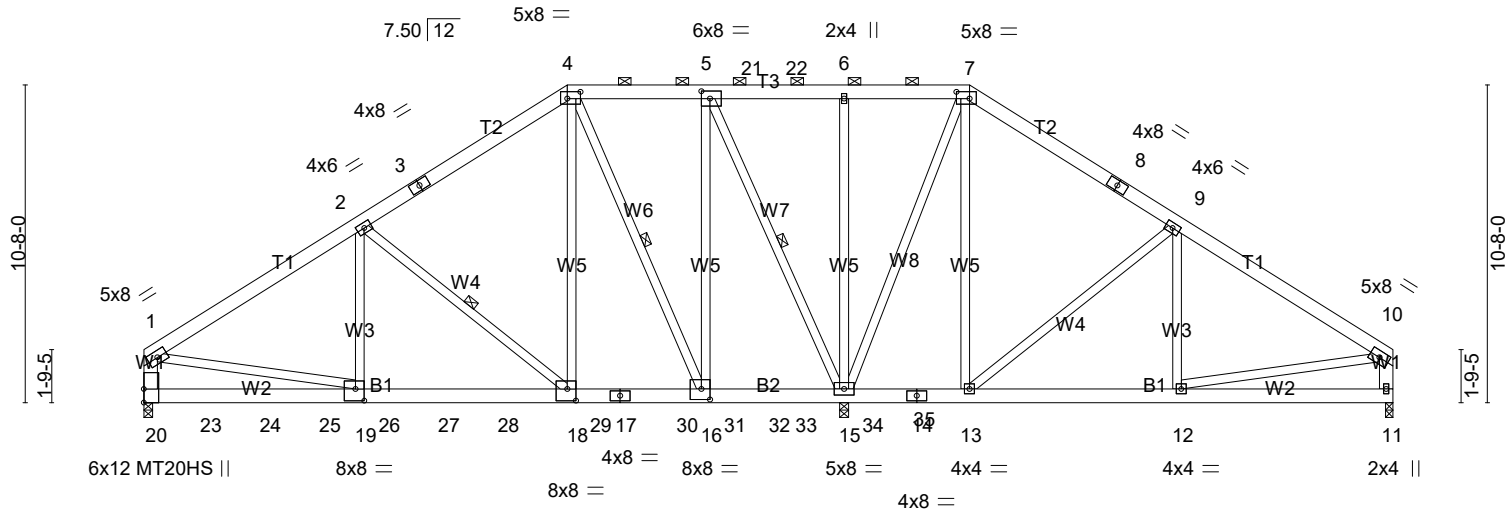
Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T4	Piggyback Base Girder	1	2	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:08 2023 Page 1

ID:wFt46ioPgwNXurZgnFdDKky93cZ-1pZ5nYTk_Dnk8oBMS6_UuWtqGOPj1SVRoubWrLyyoan

7-3-2	14-2-11	18-10-8	23-6-4	27-8-13	34-8-6	41-11-8
7-3-2	6-11-10	4-7-12	4-7-12	4-2-9	6-11-10	7-3-2

Scale = 1:77.4



7-3-2	14-2-11	18-10-8	23-6-4	27-8-13	34-8-6	41-11-8
7-3-2	6-11-10	4-7-12	4-7-12	4-2-9	6-11-10	7-3-2

Plate Offsets (X,Y)-- [4:0-5-4,0-2-12], [5:0-3-8,0-3-0], [7:0-5-4,0-2-12], [16:0-3-8,0-4-4], [18:0-3-8,0-4-12], [19:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.14	18-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.29	18-19	>969	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.11	18-19	>999	240	Weight: 763 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except*
B2: 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
W5,W2: 2x4 SP No.2, W7: 2x4 SP 2400F 2.0E
W1: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15.
WEBS 1 Row at midpt 2-18, 4-16, 5-15

REACTIONS. (lb/size) 20=6448/0-3-8 (min. 0-2-11), 15=8050/0-3-8 (req. 0-4-12), 11=459/0-3-0 (min. 0-1-8)
Max Horz 20=-253(LC 6)
Max Uplift 20=-452(LC 8), 15=-600(LC 8), 11=-144(LC 27)
Max Grav 20=6466(LC 19), 15=8050(LC 1), 11=633(LC 14)

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

TOP CHORD 1-2=-7435/561, 2-3=-4514/389, 3-4=-4404/430, 4-5=-2330/301, 5-21=0/369, 21-22=0/369, 6-22=0/369, 6-7=0/369, 7-8=-170/310, 8-9=-276/269, 9-10=-675/226, 1-20=-5157/400, 10-11=-567/174
BOT CHORD 20-23=-261/1118, 23-24=-261/1118, 24-25=-261/1118, 19-25=-261/1118, 19-26=-424/6198, 26-27=-424/6198, 27-28=-424/6198, 28-29=-424/6198, 18-29=-424/6198, 17-18=-231/3796, 17-30=-231/3796, 30-31=-231/3796, 16-31=-231/3796, 16-32=-195/2330, 32-33=-195/2330, 33-34=-195/2330, 15-34=-195/2330, 12-13=-77/456
WEBS 2-19=-161/3212, 2-18=-3204/332, 4-18=-359/5256, 4-16=-3558/261, 5-16=-344/5553, 5-15=-6433/471, 6-15=-314/78, 7-15=-702/129, 7-13=-162/459, 9-13=-588/146, 9-12=0/313, 1-19=-299/5280, 10-12=-63/351

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.

Continued on page 2

NOTES-

4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
9) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=452, 15=600, 11=144.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1058 lb down and 83 lb up at 2-0-12, 1058 lb down and 83 lb up at 4-0-12, 1058 lb down and 83 lb up at 6-0-12, 1058 lb down and 83 lb up at 8-0-12, 1058 lb down and 83 lb up at 10-0-12, 1058 lb down and 83 lb up at 12-0-12, 1058 lb down and 83 lb up at 14-0-12, 1058 lb down and 83 lb up at 16-0-12, 1058 lb down and 83 lb up at 18-0-12, and 1058 lb down and 83 lb up at 20-0-12, and 1058 lb down and 83 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-7=-60, 7-10=-60, 11-20=-20
   Concentrated Loads (lb)
   Vert: 17=-1058(B) 23=-1058(B) 24=-1058(B) 25=-1058(B) 26=-1058(B) 27=-1058(B) 28=-1058(B) 29=-1058(B) 30=-1058(B) 32=-1058(B) 33=-1058(B)

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T5	GABLE	1	1	Job Reference (optional)

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ID:wFt46ioPgwNXurZgnFdDKky93cZ-V?7T?uUMlWvamxmY0qVjRjQ03ovlm4xa1YK3Onyyoam

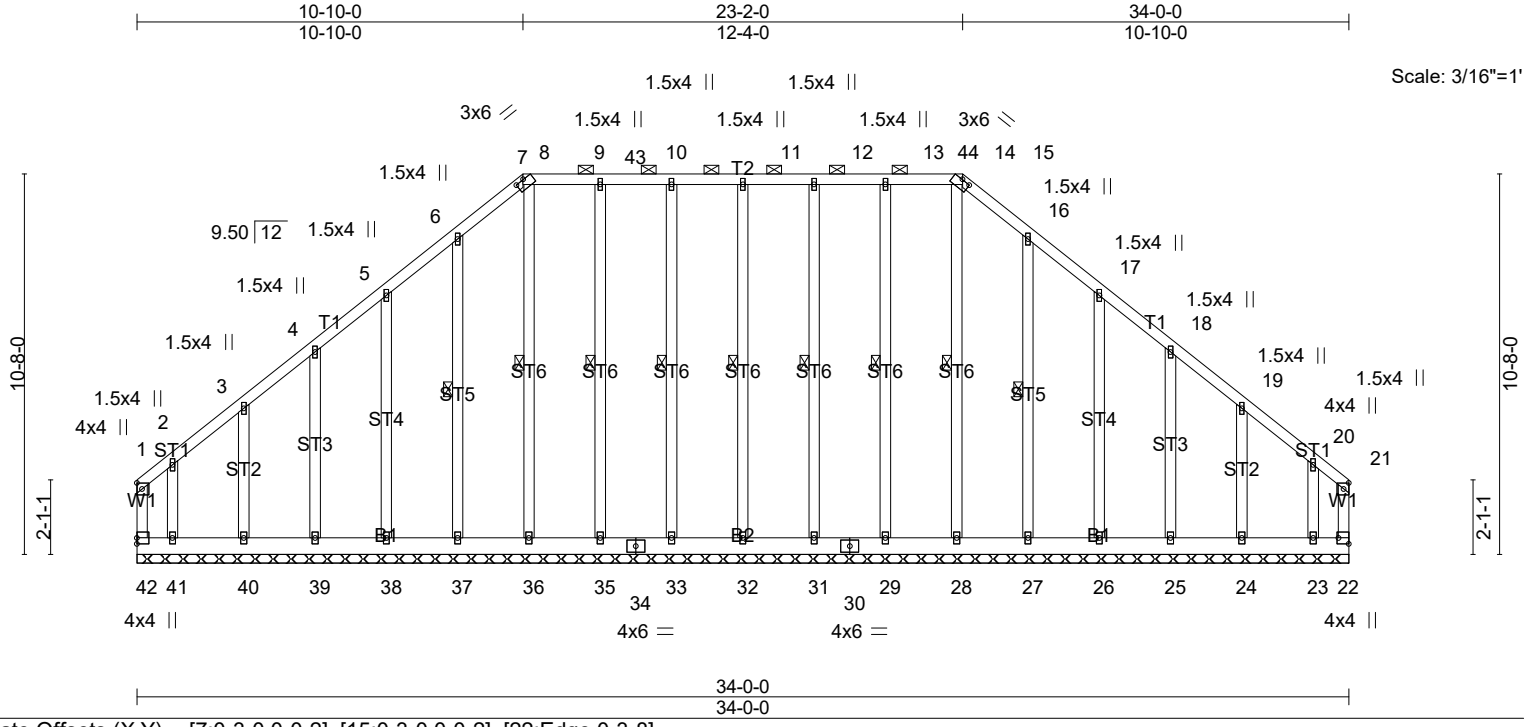

Plate Offsets (X,Y)-- [7:0-3-0,0-0-2], [15:0-3-0,0-0-2], [22:Edge,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	22	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 326 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x6 SP No.1
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, and 2-0-0 oc purlins (6-0-0 max.): 7-15.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 11-32, 10-33, 9-35, 8-36, 6-37, 12-31, 13-29, 14-28, 16-27

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 34-0-0.

(lb) - Max Horz 42=-275(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 35, 37, 38, 39, 40, 31, 29, 27, 26, 25, 24 except 42=-368(LC 6), 22=-340(LC 7), 41=-272(LC 7), 23=-250(LC 6)

Max Grav All reactions 250 lb or less at joint(s) 32, 33, 35, 36, 37, 38, 39, 40, 31, 29, 28, 27, 26, 25, 24 except 42=391(LC 7), 22=363(LC 6), 41=418(LC 6), 23=396(LC 7)

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

TOP CHORD 5-6=-85/256, 6-7=-69/305, 7-8=-29/261, 8-9=-29/261, 9-43=-29/261, 10-43=-29/261, 10-11=-29/261, 11-12=-29/261, 12-44=-29/261, 13-44=-29/261, 13-14=-29/261, 14-15=-29/261, 15-16=-60/305, 16-17=-76/256

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

Continued on page 2

NOTES-

8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 35, 37, 38, 39, 40, 31, 29, 27, 26, 25, 24 except (jt=lb) 42=368, 22=340, 41=272, 23=250.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T6	Piggyback Base	10	1	Job Reference (optional)

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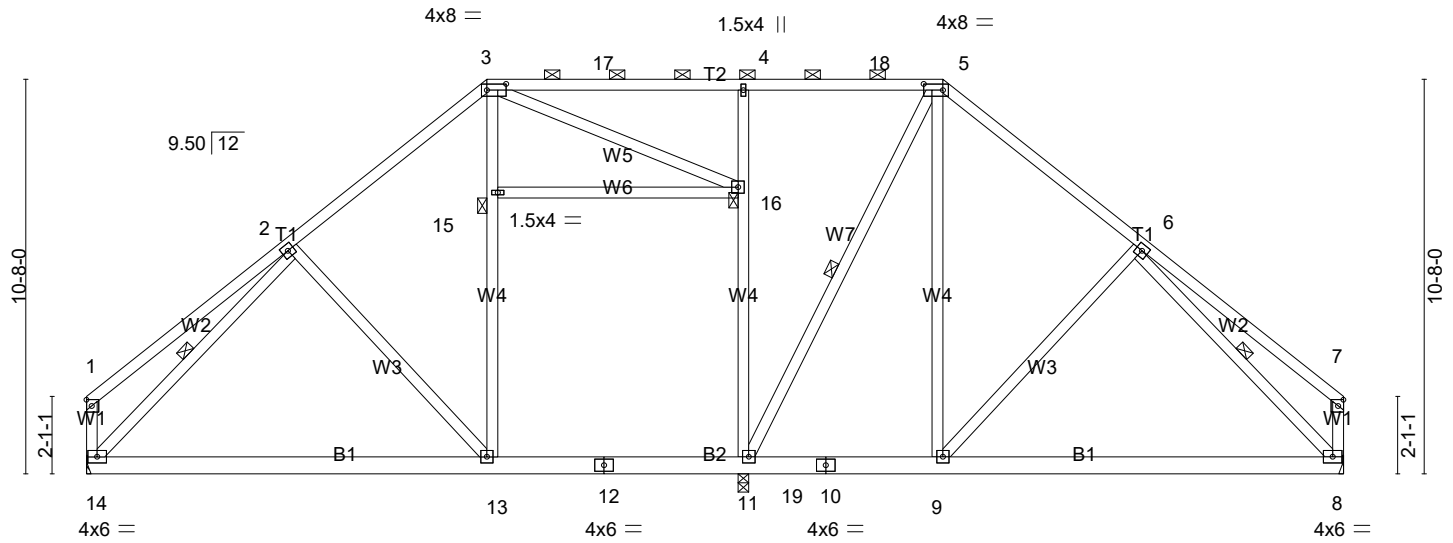
ID:wFt46ioPgwNXurZgnFdDKky93cZ-ROFDQaVcH89I?Fww8FYBW8VHsbXkExatVspASfyyoak

5-6-12	10-10-0	17-9-4	23-2-0	28-5-4	34-0-0
5-6-12	5-3-4	6-11-4	5-4-12	5-3-4	5-6-12

Scale = 1:62.3



10-10-0	17-9-4	23-2-0	34-0-0
10-10-0	6-11-4	5-4-12	10-10-0

Plate Offsets (X,Y)-- [3:0-6-4,0-2-0], [5:0-6-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.09	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.20	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.03	13-14	>999	240	Weight: 270 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11, 2-14, 6-8
JOINTS 1 Brace at Jt(s): 15, 16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=517/0-3-8 (min. 0-1-8), 14=1102/Mechanical, 8=1078/Mechanical
Max Horz 14=-275(LC 6)
Max Uplift 11=-127(LC 4), 14=-66(LC 8), 8=-63(LC 8)
Max Grav 11=762(LC 14), 14=1163(LC 13), 8=1078(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-297/111, 2-3=-1133/175, 3-17=-821/181, 4-17=-821/181, 4-18=-831/182, 5-18=-831/182, 5-6=-1053/172, 6-7=-283/108, 1-14=-286/96, 7-8=-276/94
BOT CHORD 13-14=-101/1000, 12-13=-18/912, 11-12=-18/912, 11-19=0/818, 10-19=0/818, 9-10=0/818, 8-9=0/803
WEBS 13-15=0/378, 3-15=0/379, 11-16=-442/116, 4-16=-428/116, 5-9=0/367, 2-14=-1026/37, 6-8=-1035/37

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (jt=lb) 11=127.

Continued on page 2

NOTES-

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

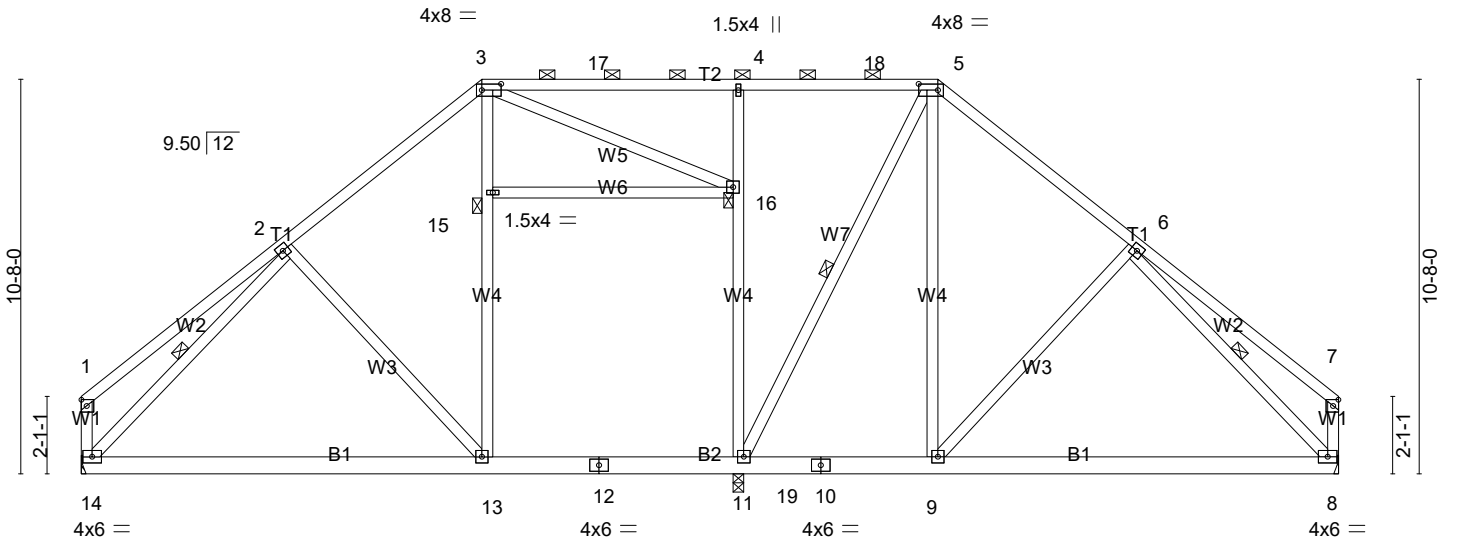
Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T7	Piggyback Base	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:12 2023 Page 1

ID:wFt46ioPgwNXurZgnFdDKky93cZ-vaocdwWE2RI9dPV7hy3Q3L2Sb?tzzOq0jWZj_6yyoaj

5-6-12	10-10-0	17-9-4	23-2-0	28-5-4	34-0-0
5-6-12	5-3-4	6-11-4	5-4-12	5-3-4	5-6-12

Scale = 1:62.3



10-10-0	17-9-4	23-2-0	34-0-0
10-10-0	6-11-4	5-4-12	10-10-0

Plate Offsets (X,Y)-- [3:0-6-4,0-2-0], [5:0-6-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.09	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.20	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.03	13-14	>999	240	Weight: 270 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11, 2-14, 6-8
JOINTS 1 Brace at Jt(s): 15, 16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=517/0-3-8 (min. 0-1-8), 14=1102/Mechanical, 8=1078/Mechanical
Max Horz 14=-275(LC 6)
Max Uplift 11=-127(LC 4), 14=-66(LC 8), 8=-63(LC 8)
Max Grav 11=762(LC 14), 14=1163(LC 13), 8=1078(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-297/111, 2-3=-1133/175, 3-17=-821/181, 4-17=-821/181, 4-18=-831/182, 5-18=-831/182, 5-6=-1053/172, 6-7=-283/108, 1-14=-286/96, 7-8=-276/94
BOT CHORD 13-14=-101/1000, 12-13=-18/912, 11-12=-18/912, 11-19=0/818, 10-19=0/818, 9-10=0/818, 8-9=0/803
WEBS 13-15=0/378, 3-15=0/379, 11-16=-442/116, 4-16=-428/116, 5-9=0/367, 2-14=-1026/37, 6-8=-1035/37

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (jt=lb) 11=127.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T7	Piggyback Base	1	1	Job Reference (optional)

NOTES-

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T8	Piggyback Base	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:13 2023 Page 1
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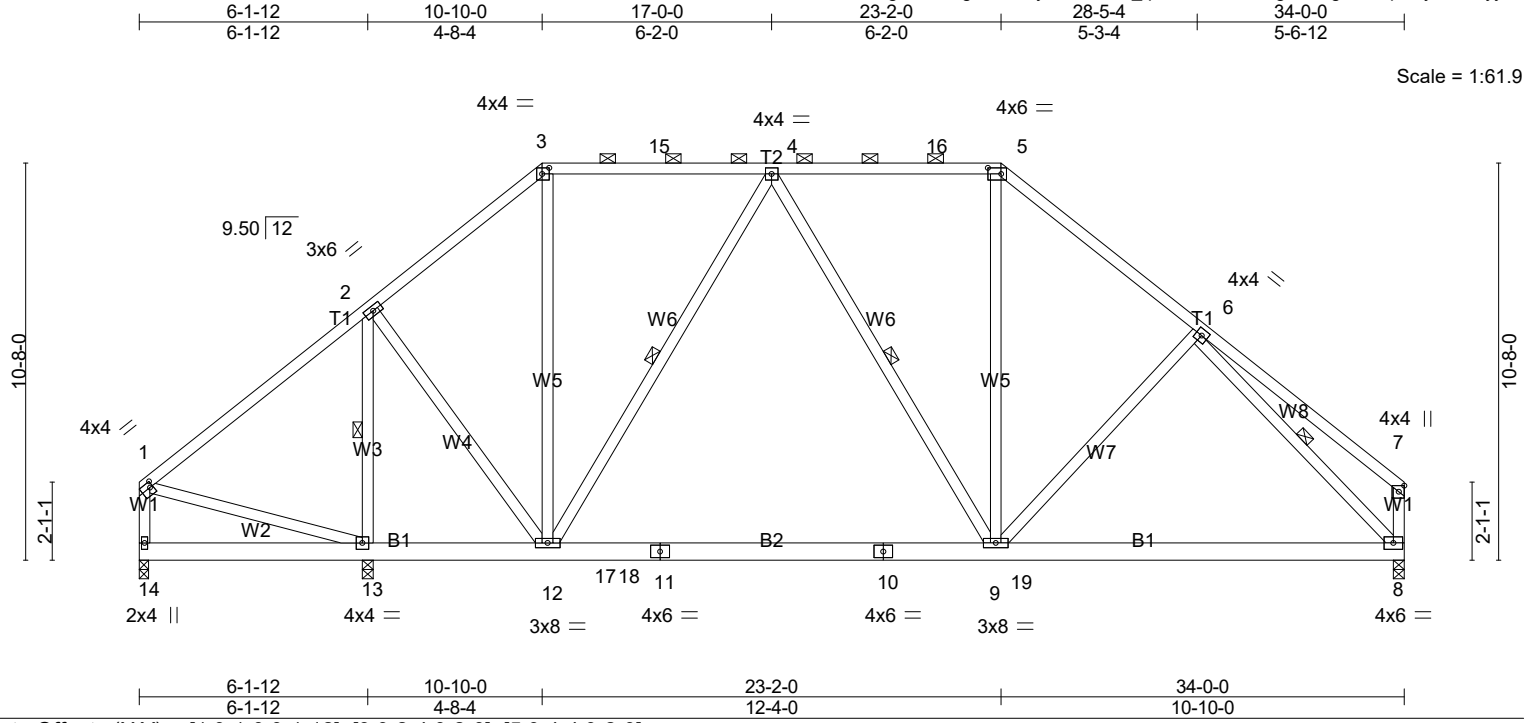


Plate Offsets (X,Y)-- [1:0-1-0,0-1-12], [3:0-2-4,0-2-0], [5:0-4-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.25	9-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.35	9-12	>941	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.02	9-12	>999	240	Weight: 260 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 4-12, 4-9, 6-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=343/0-3-0 (min. 0-1-8), 13=1224/0-3-8 (min. 0-1-9), 8=1131/0-3-8 (min. 0-1-8)
Max Horz 14=-275(LC 6)
Max Uplift14=-8(LC 8), 13=-118(LC 8), 8=-83(LC 8)
Max Grav 14=351(LC 19), 13=1332(LC 13), 8=1195(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-288/55, 2-3=-841/179, 3-15=-606/175, 4-15=-606/175, 4-16=-908/195, 5-16=-908/195, 5-6=-1217/193, 1-14=-293/42, 7-8=-255/100
BOT CHORD 13-14=-244/306, 13-17=-142/250, 12-17=-142/250, 12-18=-20/886, 11-18=-20/886, 10-11=-20/886, 10-19=-20/886, 9-19=-20/886, 8-9=-9/869
WEBS 2-13=-1324/138, 2-12=0/801, 3-12=-15/253, 4-12=-530/88, 5-9=-11/403, 6-8=-1168/49

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (jt=lb) 13=118.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

NOTES-

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T9	Piggyback Base	8	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:14 2023 Page 1

ID:wFt46ioPgwNXurZgnFdDKky93cZ-rzwM2bXUZ3YtsjfVpN5u8m7rHpXoRGjJBq2q3_yyoah

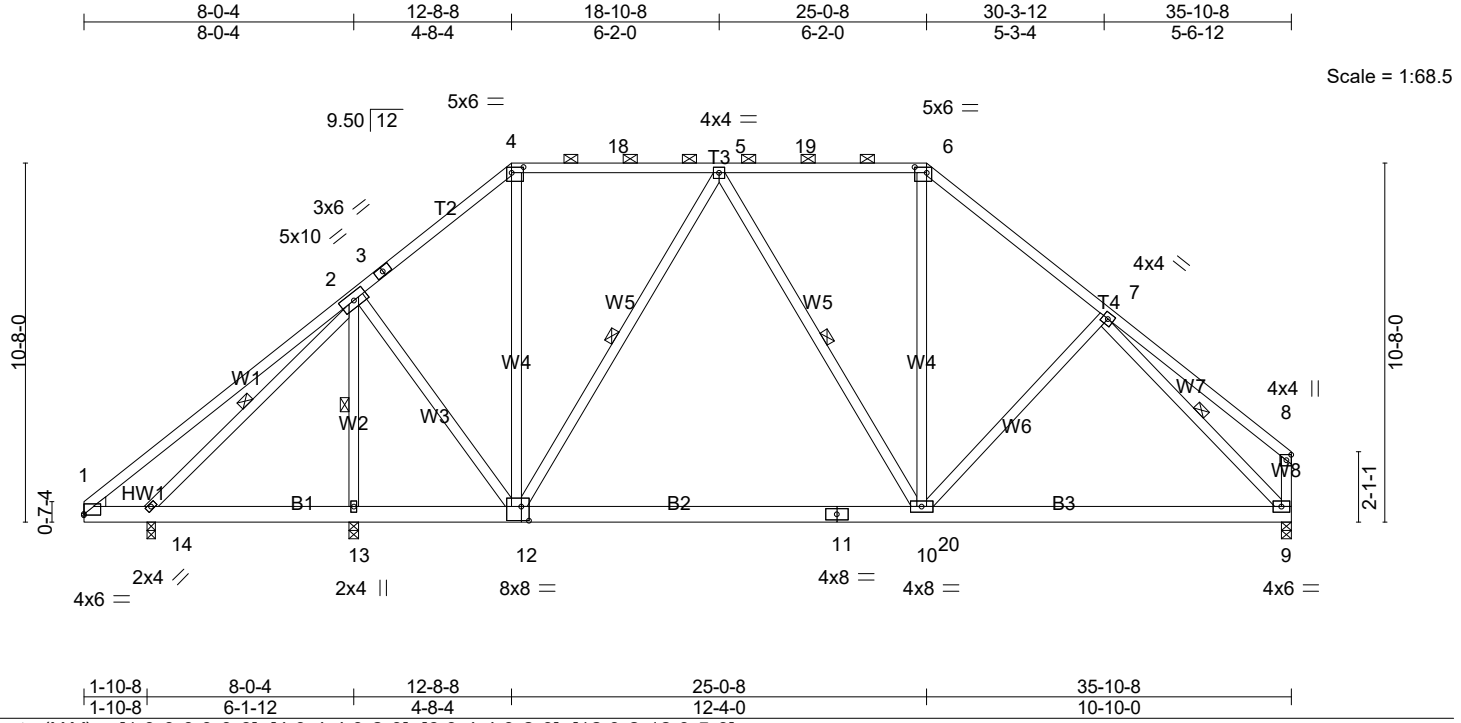


Plate Offsets (X,Y)-- [1:0-0-0,0-0-6], [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [12:0-2-12,0-5-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC	0.58	Vert(LL)	-0.24	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.50	Vert(CT)	-0.34	10-12	>980	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.42	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.02	10-12	>999	240	Weight: 270 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 5-12, 5-10, 2-14, 7-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1201/0-3-8 (min. 0-1-8), 9=1133/0-3-8 (min. 0-1-8), 14=524/0-3-0 (min. 0-1-8)
Max Horz 14=279(LC 7)
Max Uplift13=-90(LC 8), 9=-87(LC 8), 14=-82(LC 8)
Max Grav 13=1295(LC 13), 9=1204(LC 14), 14=529(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-874/161, 3-4=-847/194, 4-18=-629/184, 5-18=-629/184, 5-19=-916/200, 6-19=-916/200, 6-7=-1226/199, 8-9=-257/100
BOT CHORD 13-14=-128/286, 12-13=-130/279, 11-12=-25/899, 11-20=-25/899, 10-20=-25/899, 9-10=-12/875
WEBS 2-13=-1305/142, 2-12=0/775, 4-12=-30/273, 5-12=-521/85, 6-10=-15/409, 2-14=-272/33, 7-9=-1176/55

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 9, 14.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T9	Piggyback Base	8	1	Job Reference (optional)

NOTES-

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T10	Piggyback Base	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:15 2023 Page 1

ID:wFt46ioPgwNXurZgnFdDKky93cZ-J9UkFxY7KMgkUsEiN4c7h_g01Cs1AjzTPUnNbRyyoag

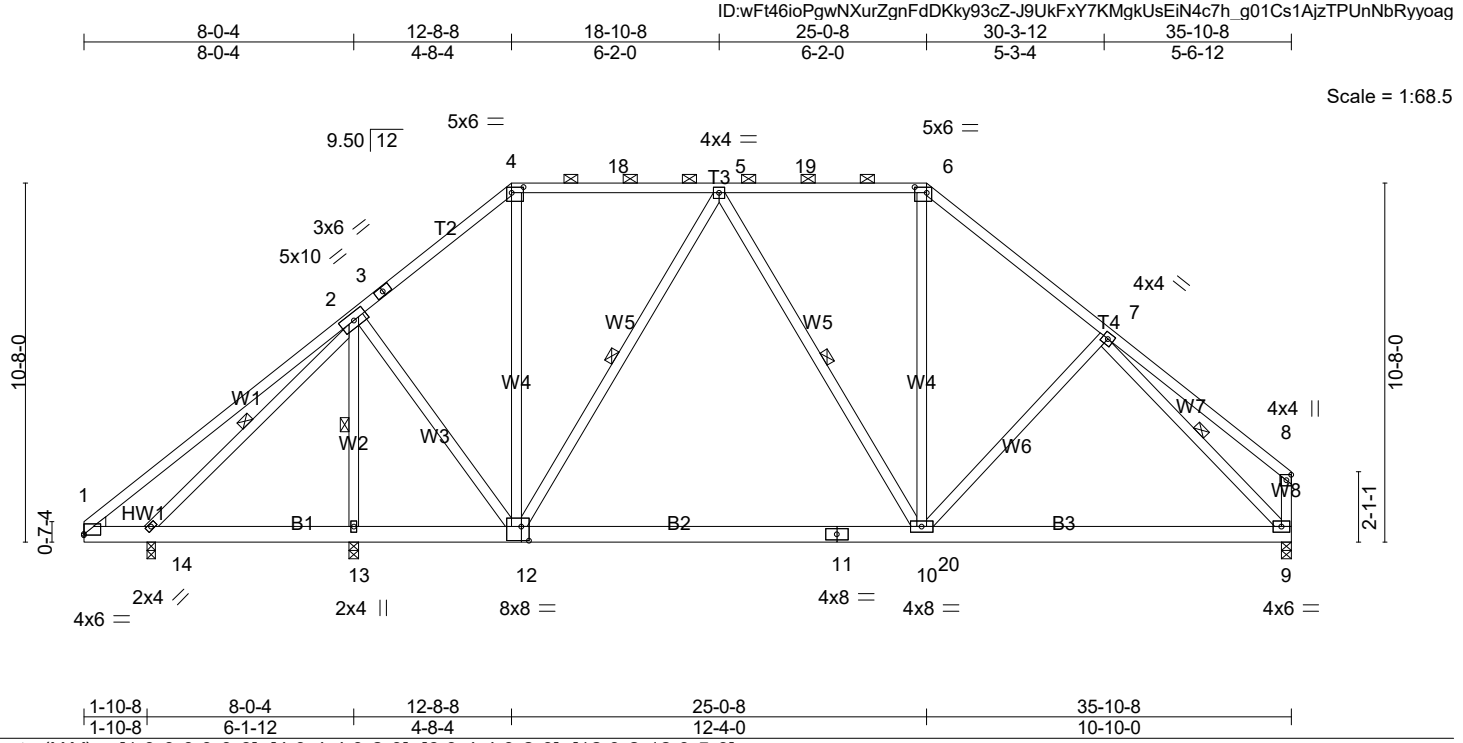


Plate Offsets (X,Y)-- [1:0-0-0,0-0-6], [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [12:0-2-12,0-5-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC	0.58	Vert(LL)	-0.24	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.50	Vert(CT)	-0.34	10-12	>980	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.42	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.02	10-12	>999	240	Weight: 270 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 5-12, 5-10, 2-14, 7-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1201/0-3-8 (min. 0-1-8), 9=1133/0-3-8 (min. 0-1-8), 14=524/0-3-0 (min. 0-1-8)
Max Horz 14=279(LC 7)
Max Uplift13=-90(LC 8), 9=-87(LC 8), 14=-82(LC 8)
Max Grav 13=1295(LC 13), 9=1204(LC 14), 14=529(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-874/161, 3-4=-847/194, 4-18=-629/184, 5-18=-629/184, 5-19=-916/200, 6-19=-916/200, 6-7=-1226/199, 8-9=-257/100
BOT CHORD 13-14=-128/286, 12-13=-130/279, 11-12=-25/899, 11-20=-25/899, 10-20=-25/899, 9-10=-12/875
WEBS 2-13=-1305/142, 2-12=0/775, 4-12=-30/273, 5-12=-521/85, 6-10=-15/409, 2-14=-272/33, 7-9=-1176/55

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 9, 14.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

NOTES-

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

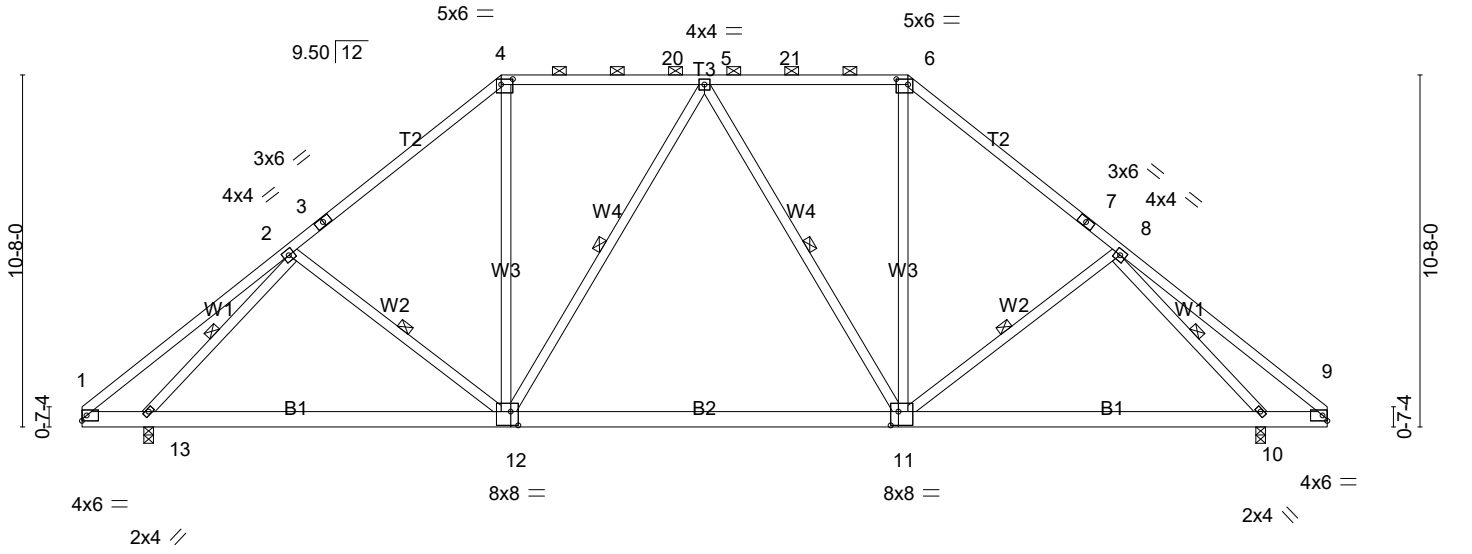
Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T11	Piggyback Base	6	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:17 2023 Page 1

ID:wFt46ioPgwNXurZgnFdDKky93cZ-GYcVgdaNs_wSjAN4UVebmPlR40X2ecrltoGUgJyyoae

6-4-11	12-8-8	18-10-8	25-0-8	31-4-5	37-9-0
6-4-11	6-3-13	6-2-0	6-2-0	6-3-13	6-4-11

Scale = 1:69.8



1-10-8	12-8-8	25-0-8	35-10-8	37-9-0
1-10-8	10-10-0	12-4-0	10-10-0	1-10-8

Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [11:0-2-12,0-5-0], [12:0-2-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.27	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.37	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.04	11-12	>999	240	Weight: 262 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-12, 5-12, 5-11, 8-11, 2-13, 8-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1510/0-3-8 (min. 0-1-13), 10=1510/0-3-8 (min. 0-1-13)
Max Horz 13=-254(LC 6)
Max Uplift 13=-157(LC 8), 10=-116(LC 8)
Max Grav 13=1549(LC 13), 10=1549(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-263/67, 2-3=-1538/169, 3-4=-1432/213, 4-20=-1161/220, 5-20=-1161/220, 5-21=-1161/221, 6-21=-1161/221, 6-7=-1432/215, 7-8=-1538/171, 8-9=-263/67
BOT CHORD 12-13=-61/1263, 11-12=0/1297, 10-11=-46/1072
WEBS 4-12=-6/588, 5-12=-311/92, 5-11=-311/92, 6-11=-8/587, 2-13=-1618/234, 8-10=-1618/212

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=157, 10=116.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

NOTES-

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T12	GABLE	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:18 2023 Page 1

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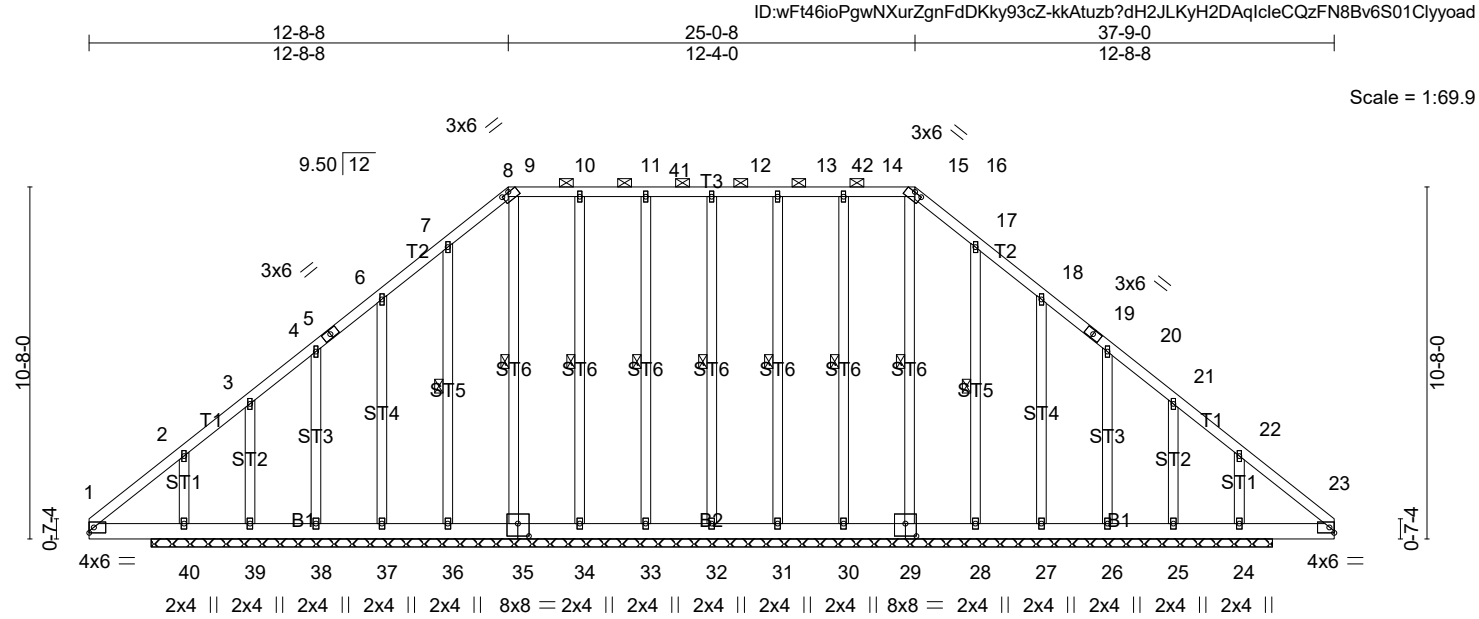

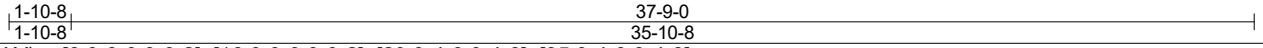

Plate Offsets (X,Y)-- [8:0-3-0,0-0-2], [16:0-3-0,0-0-2], [29:0-4-0,0-4-8], [35:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	24	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 338 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except
2-0-0 oc purlins (10-0-0 max.): 8-16.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 12-32, 11-33, 10-34, 9-35, 7-36, 13-31, 14-30, 15-29, 17-28

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 34-0-0.
(lb) - Max Horz 40=259(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 34, 36, 37, 38, 31, 30, 28, 27, 26 except 39=-207(LC 7), 40=-159(LC 4), 25=-190(LC 6), 24=-149(LC 5)
Max Grav All reactions 250 lb or less at joint(s) 32, 33, 34, 36, 37, 38, 31, 30, 28, 27, 26 except 35=261(LC 13), 39=337(LC 6), 40=419(LC 14), 29=256(LC 14), 25=321(LC 7), 24=405(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-6/282, 16-17=0/281

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

NOTES-

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 34, 36, 37, 38, 31, 30, 28, 27, 26 except (jt=lb) 39=207, 40=159, 25=190, 24=149.
10) Non Standard bearing condition. Review required.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T13	Common	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:19 2023 Page 1

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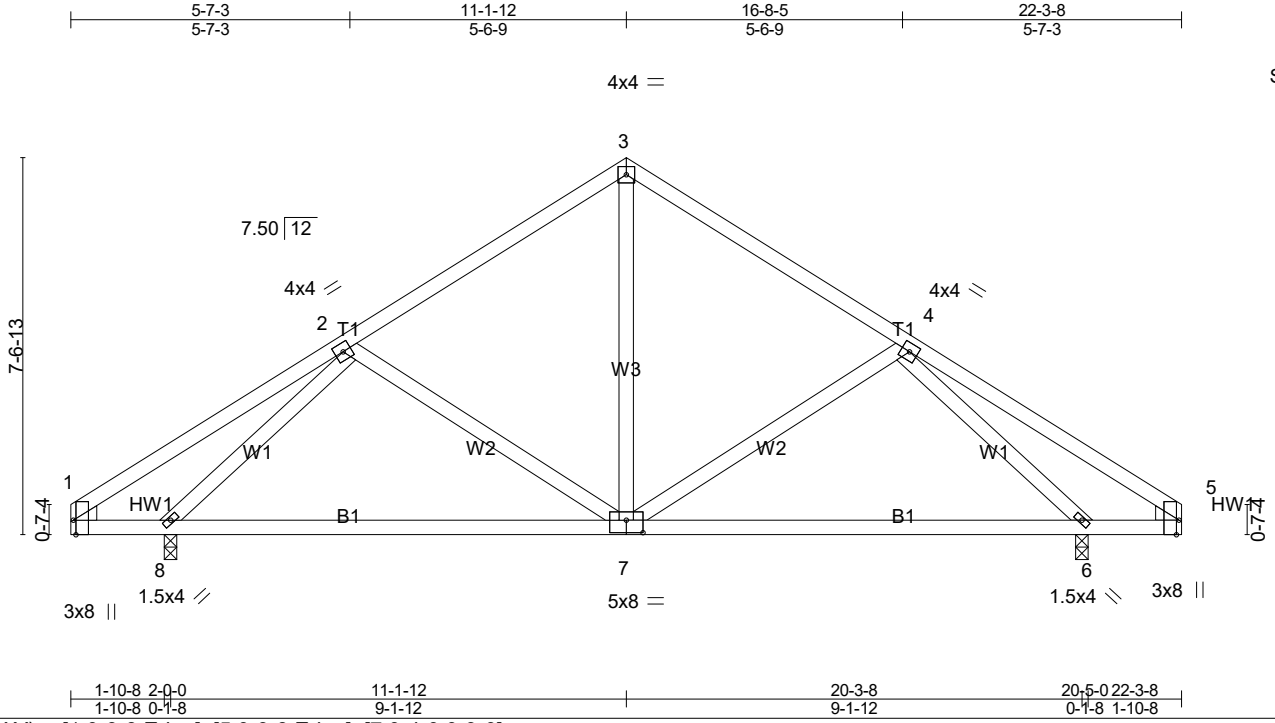


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [5:0-3-8,Edge], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.08	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.16	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.01	7	>999	240	Weight: 119 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=892/0-3-0 (min. 0-1-8), 6=892/0-3-0 (min. 0-1-8)
Max Horz 8=-154(LC 6)
Max Uplift 8=-111(LC 8), 6=-67(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-675/118, 3-4=-675/118
BOT CHORD 7-8=-23/616, 6-7=-29/575
WEBS 3-7=-9/376, 2-8=-832/177, 4-6=-832/150

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=111.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	T14	Common	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:20 2023 Page 1

ID:wFt46ioPgwNXurZgnFdDKky93cZ-g7HdIfcF9vI1ae6f9eCIO1NxuDd8r_mCZIV8Geyyoab

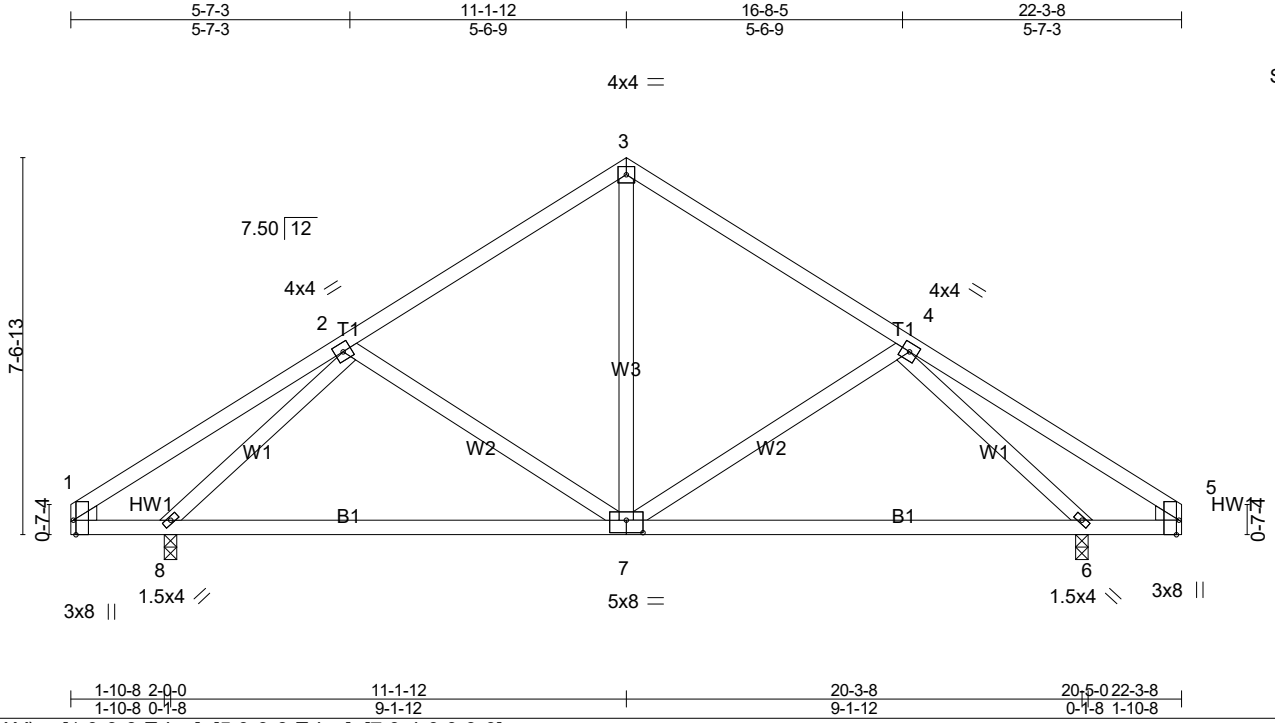


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [5:0-3-8,Edge], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.08	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.16	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.01	7	>999	240	Weight: 119 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=892/0-3-0 (min. 0-1-8), 6=892/0-3-0 (min. 0-1-8)
Max Horz 8=-154(LC 6)
Max Uplift8=-111(LC 8), 6=-67(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-675/118, 3-4=-675/118
BOT CHORD 7-8=-23/616, 6-7=-29/575
WEBS 3-7=-9/376, 2-8=-832/177, 4-6=-832/150

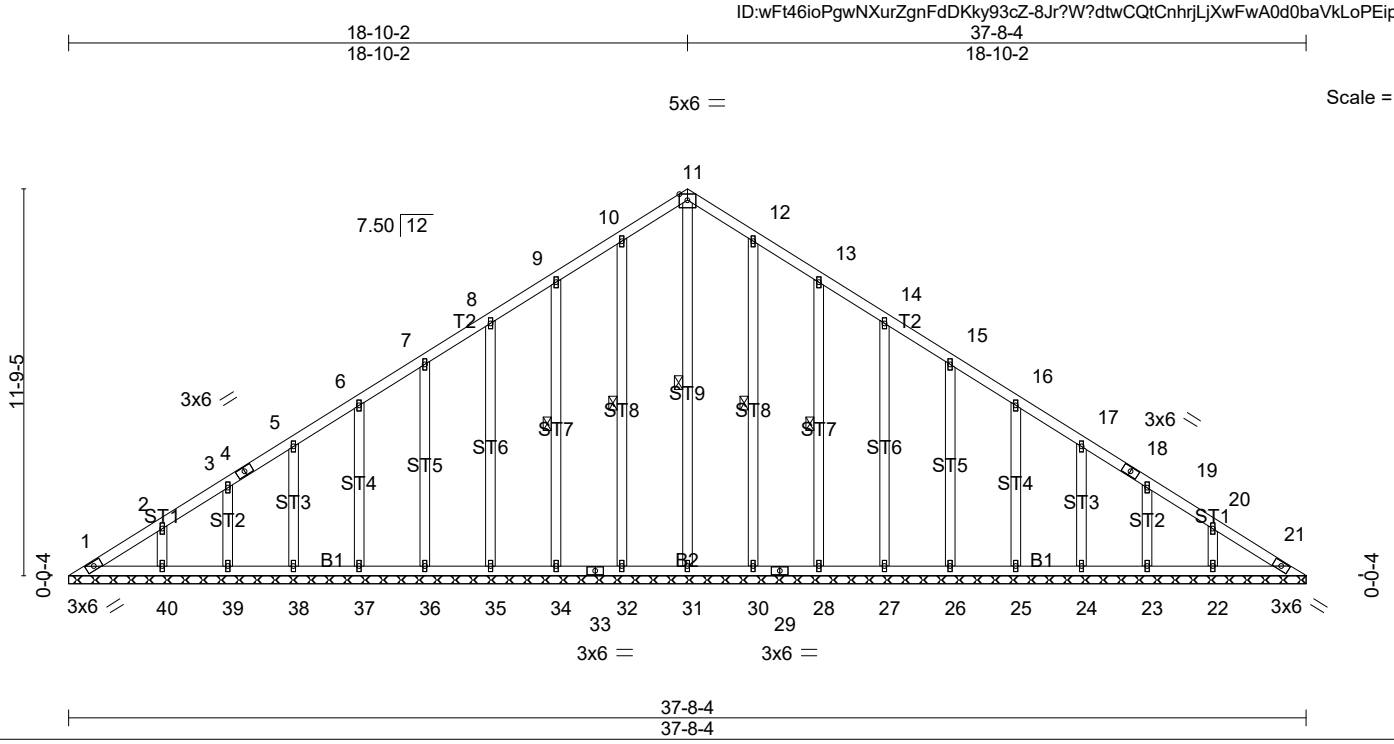
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=111.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V1	Valley	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:21 2023 Page 1

ID:wFt46ioPgwNXurZgnFdDKky93cZ-8Jr?W?dtwCQtCnhrjLjXwFwA0d0baVkLoPEip4yyoaa



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	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	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 270 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.
WEBS 1 Row at midpt 11-31, 10-32, 9-34, 12-30, 13-28

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 37-8-4.
(lb) - Max Horz 1=260(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 32, 34, 35, 36, 37, 38, 39, 40, 30, 28, 27, 26, 25, 24, 23, 22
Max Grav All reactions 250 lb or less at joint(s) 1, 31, 32, 34, 35, 36, 37, 38, 39, 40, 30, 28, 27, 26, 25, 24, 23, 22, 21

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 32, 34, 35, 36, 37, 38, 39, 40, 30, 28, 27, 26, 25, 24, 23, 22.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V2	Valley	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:22 2023 Page 1

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16-3-11 / 16-3-11 — 32-7-7 / 16-3-11

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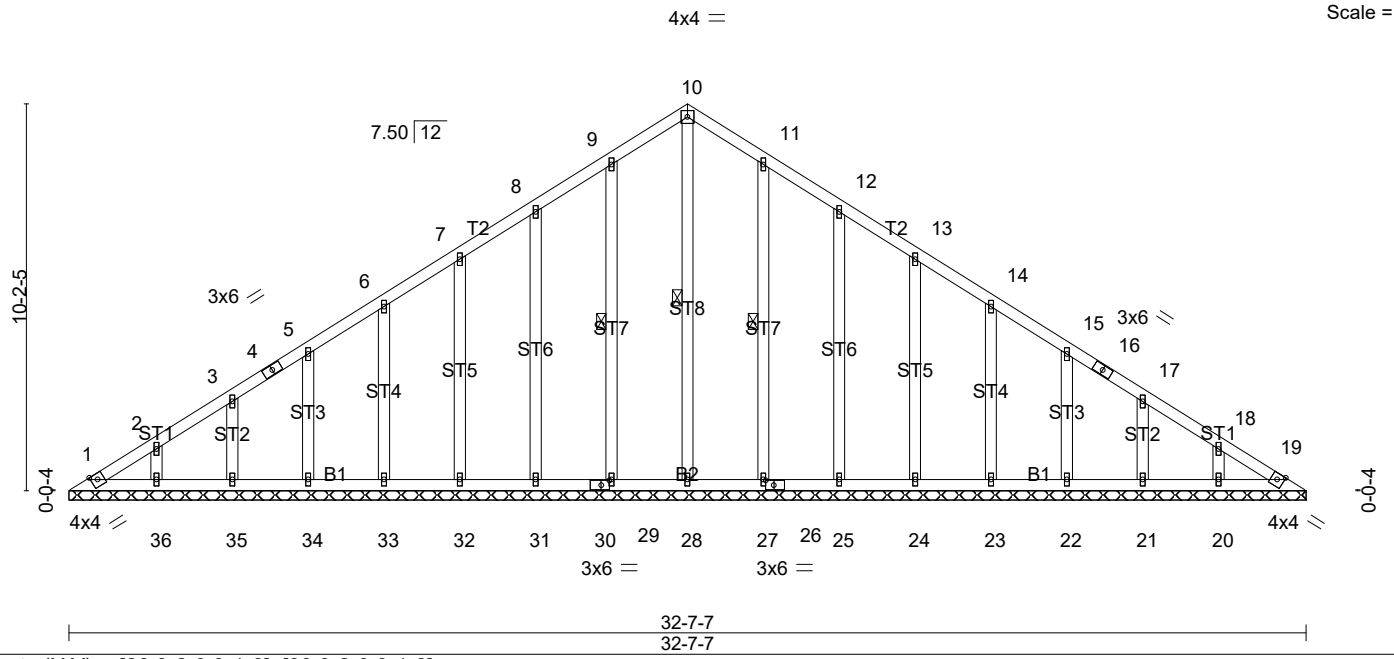

32-7-7 / 32-7-7

Plate Offsets (X,Y)-- [26:0-2-9,0-1-8], [30:0-2-9,0-1-8]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	*	Rep Stress Incr YES	WB	0.13	Horz(CT)	0.01	19	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014	Matrix-S							Weight: 215 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.
WEBS 1 Row at midpt 10-28, 9-29, 11-27

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 32-7-7.
(lb) - Max Horz 1=223(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 29, 31, 32, 33, 34, 35, 36, 27, 25, 24, 23, 22, 21, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 1, 28, 29, 31, 32, 33, 34, 35, 36, 27, 25, 24, 23, 22, 21, 20, 19

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 29, 31, 32, 33, 34, 35, 36, 27, 25, 24, 23, 22, 21, 20, 19.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V3	Valley	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:24 2023 Page 1

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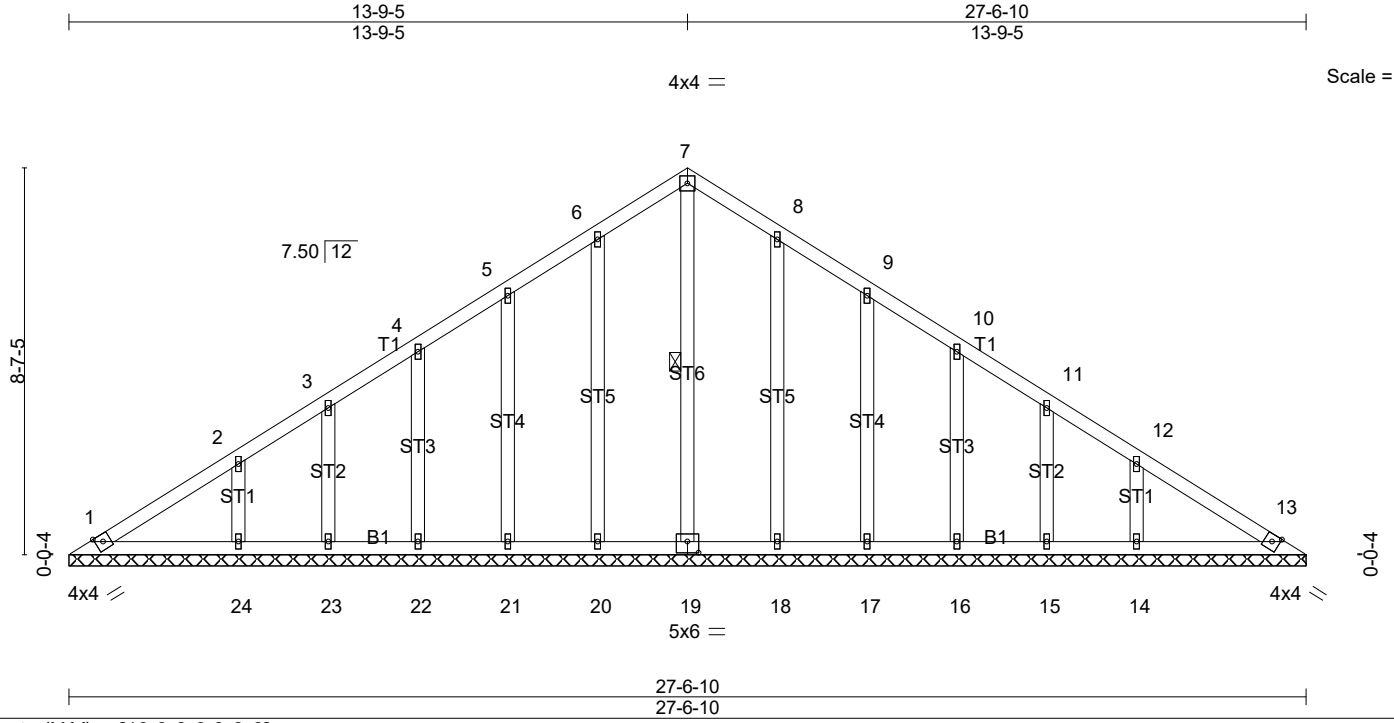

27-6-10
27-6-10

Plate Offsets (X,Y)-- [19:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 163 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.
WEBS 1 Row at midpt 7-19

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 27-6-10.
(lb) - Max Horz 1=-185(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 20, 21, 22, 23, 24, 18, 17, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 20, 21, 22, 23, 18, 17, 16, 15 except 24=273(LC 13), 14=273(LC 14)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 20, 21, 22, 23, 24, 18, 17, 16, 15, 14.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V4	Valley	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:25 2023 Page 1

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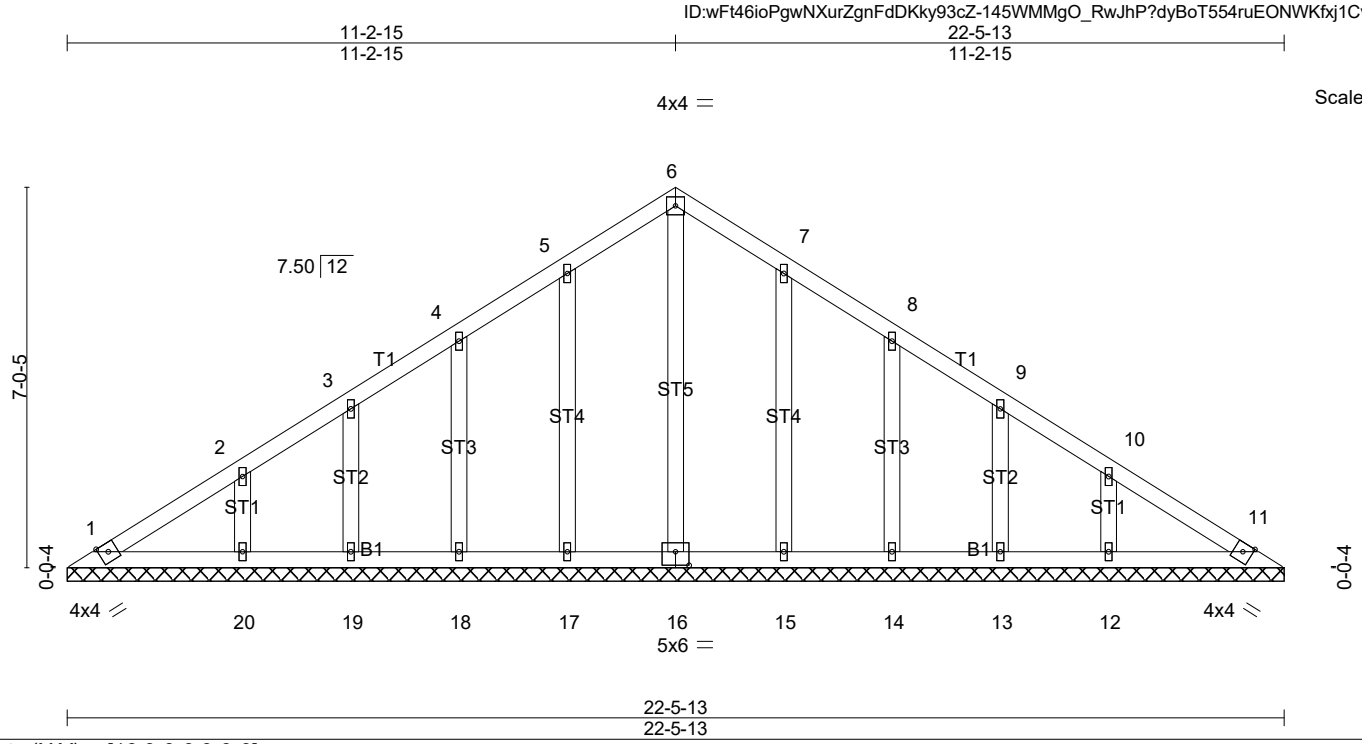

Plate Offsets (X,Y)-- [16:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 120 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 22-5-13.
(lb) - Max Horz 1=148(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 19, 20, 15, 14, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 19, 20, 15, 14, 13, 12

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 19, 20, 15, 14, 13, 12.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V5	Valley	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:25 2023 Page 1

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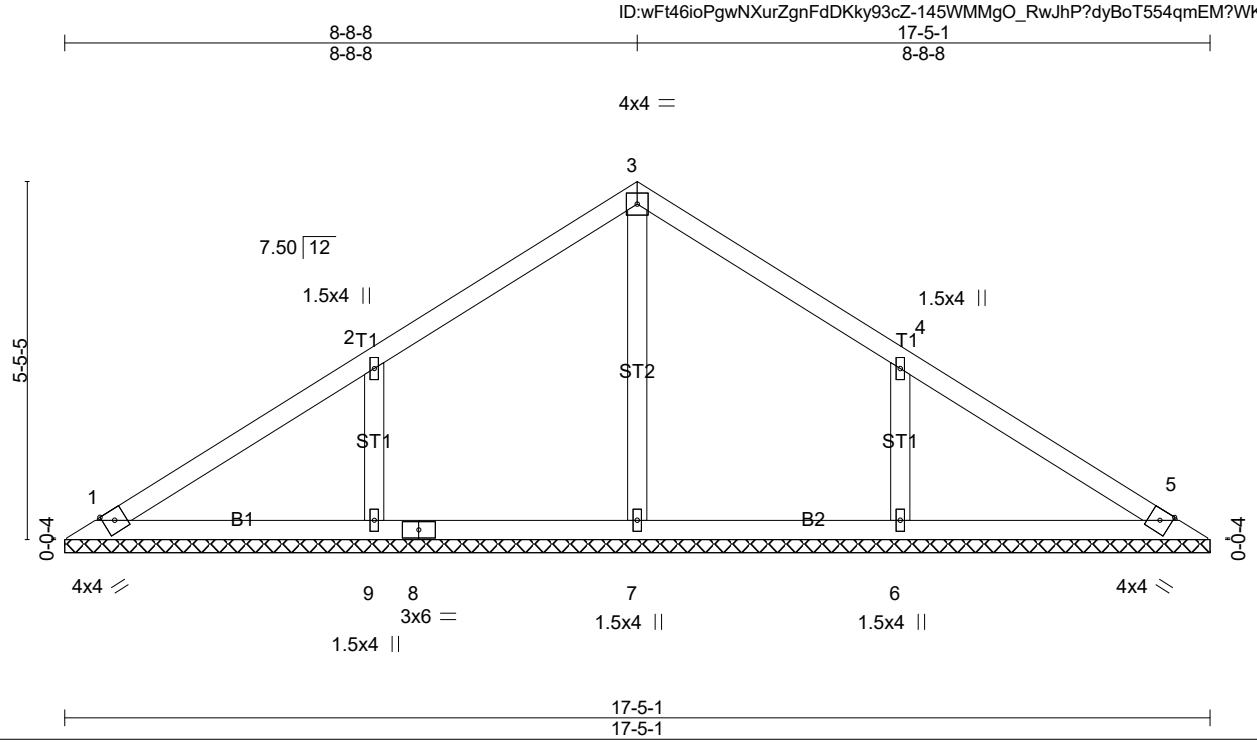

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 69 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 17-5-1.
(lb) - Max Horz 1=-113(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 9, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except
9=402(LC 13), 6=402(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-302/140, 4-6=-302/140

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V6	Valley	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:26 2023 Page 1

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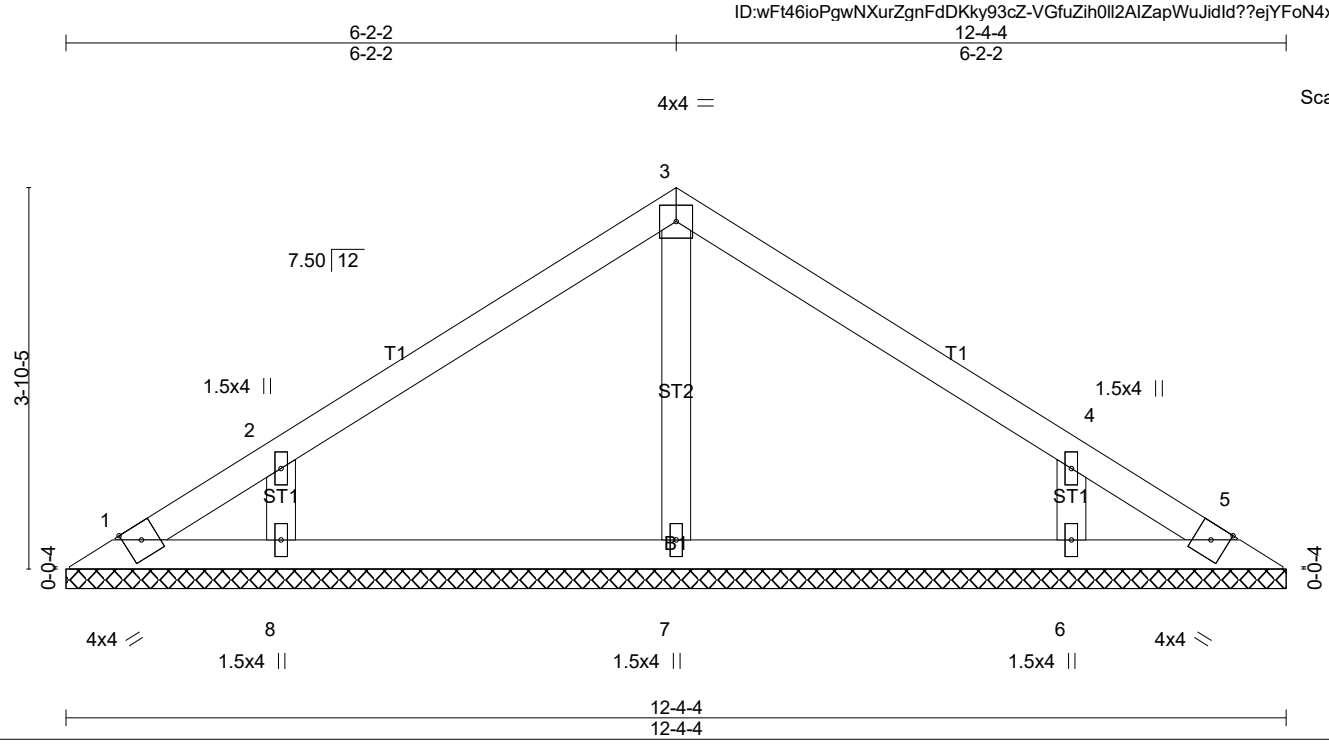

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 45 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-4-4.
(lb) - Max Horz 1=-78(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=265(LC 1), 8=299(LC 13), 6=299(LC 14)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V7	Valley	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:27 2023 Page 1

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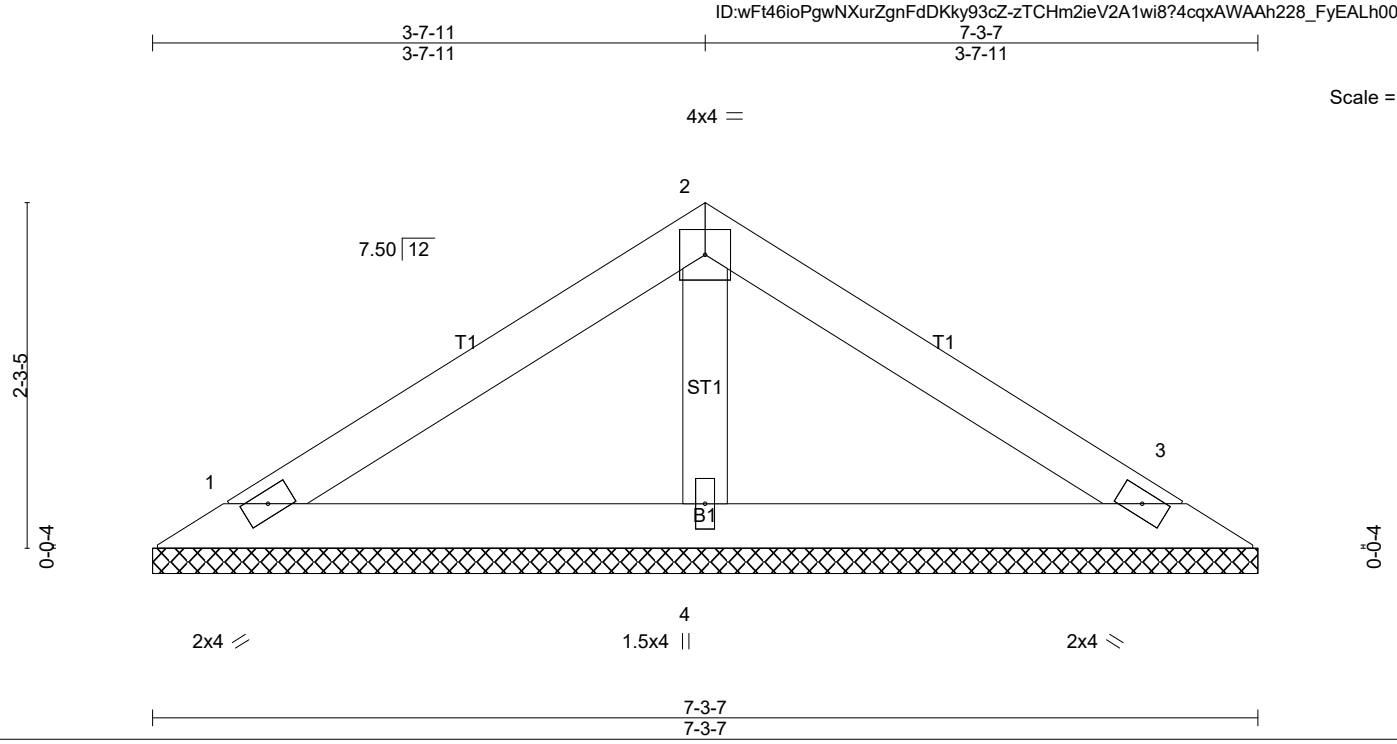

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=136/7-3-7 (min. 0-1-8), 3=136/7-3-7 (min. 0-1-8), 4=229/7-3-7 (min. 0-1-8)
Max Horz 1=-43(LC 6)
Max Uplift1=-27(LC 8), 3=-27(LC 8)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V8	Valley	1	1	Job Reference (optional)

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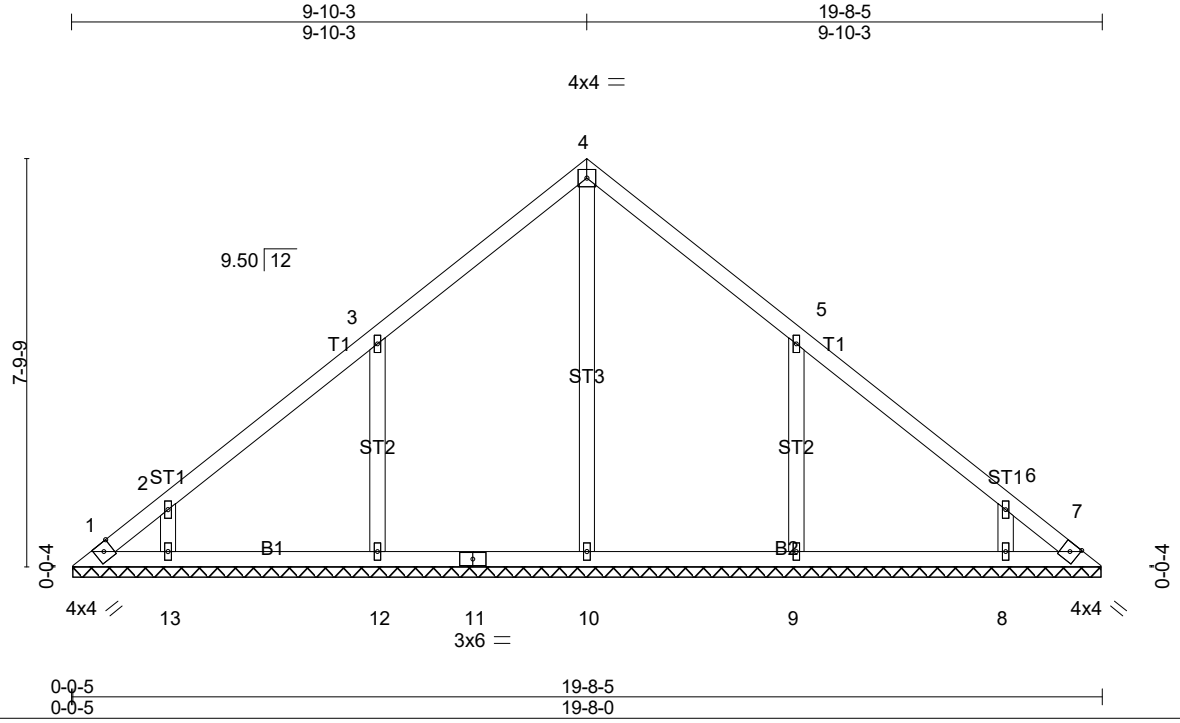

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 91 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 19-7-11.
(lb) - Max Horz 1=-176(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-111(LC 8), 9=-111(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=365(LC 13), 12=433(LC 13), 13=267(LC 13), 9=433(LC 14), 8=267(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-292/160, 5-9=-291/160

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13 , 8 except (jt=lb) 12=111, 9=111.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V9	Valley	1	1	Job Reference (optional)

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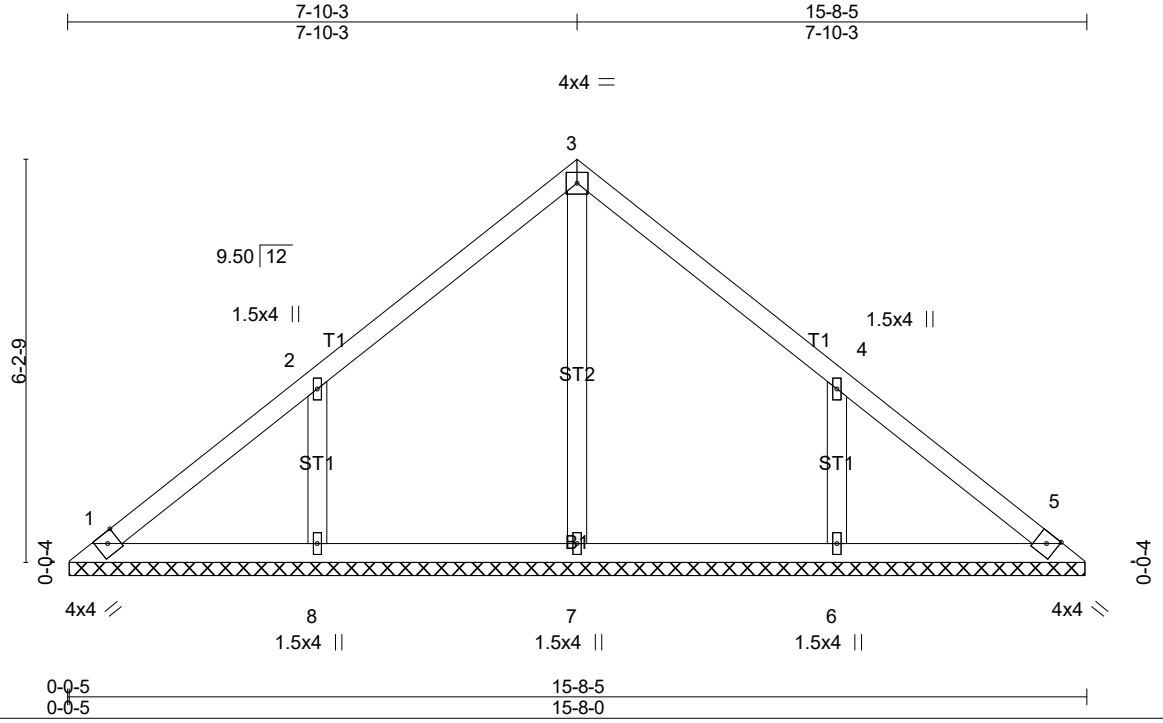

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 67 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 15-7-11.
(lb) - Max Horz 1=138(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except 8=-112(LC 8), 6=-112(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=376(LC 13), 6=375(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-289/157, 4-6=-289/157

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 8 and 112 lb uplift at joint 6.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V10	Valley	1	1	Job Reference (optional)

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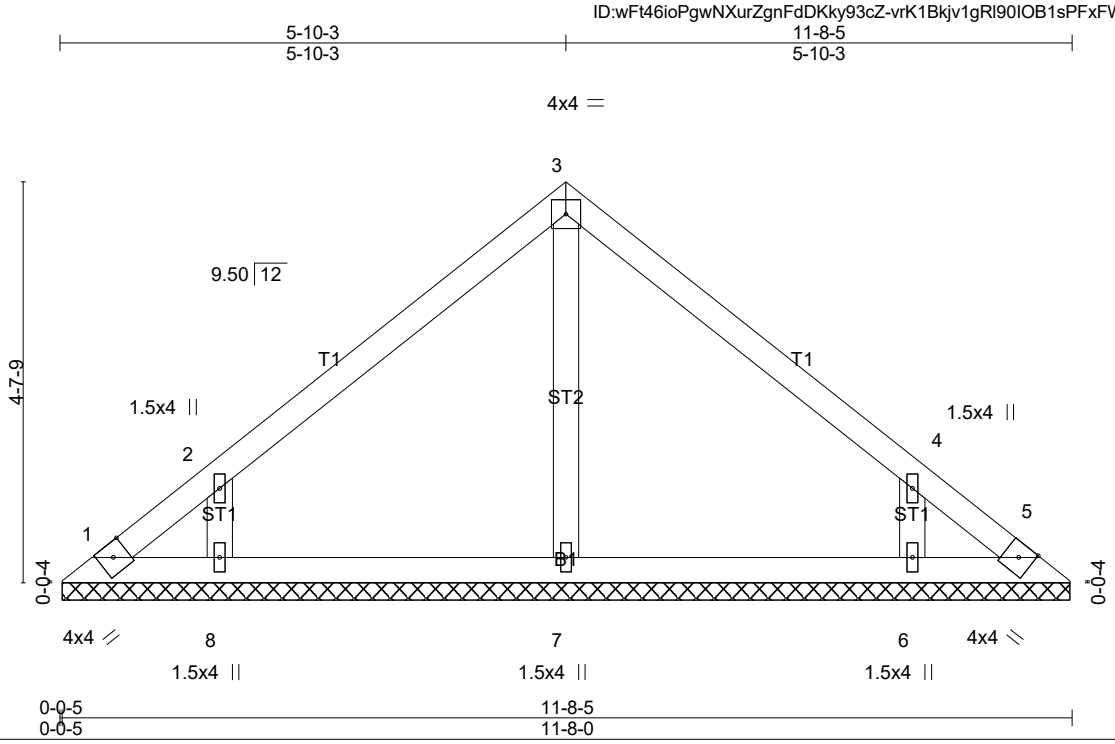

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 47 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 11-7-11.
(lb) - Max Horz 1=-101(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except
8=316(LC 13), 6=315(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-254/140, 4-6=-254/140

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V11	Valley	1	1	Job Reference (optional)

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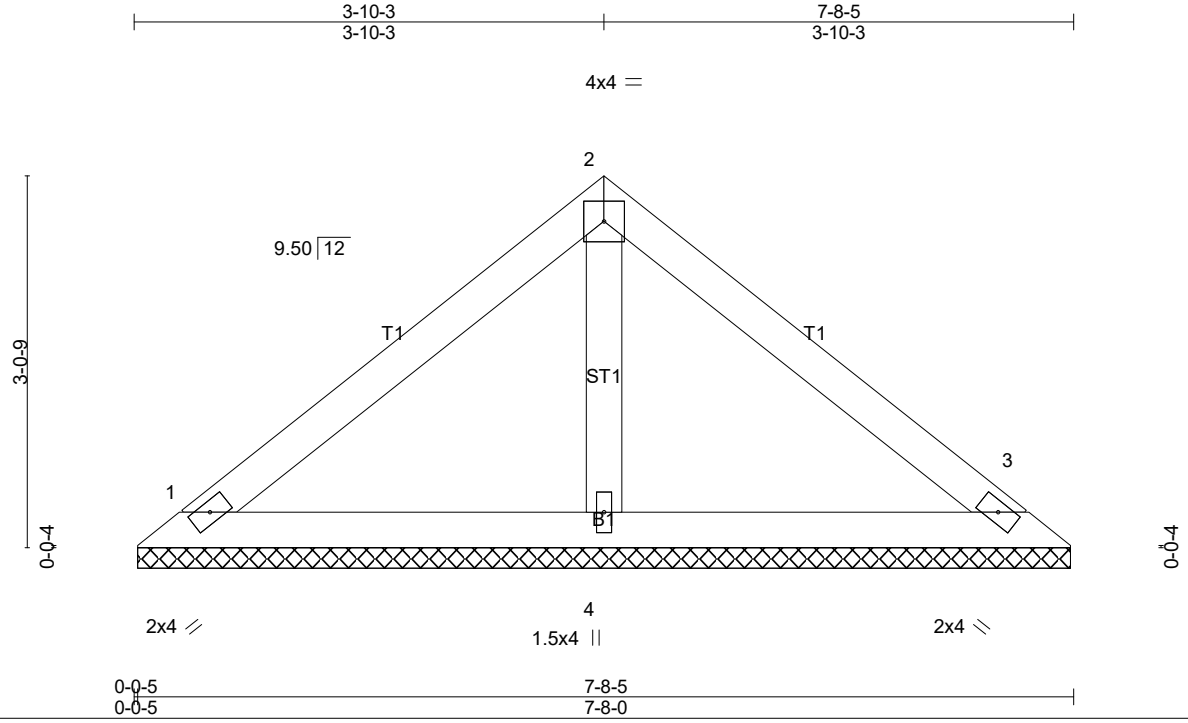

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=160/7-7-11 (min. 0-1-8), 3=160/7-7-11 (min. 0-1-8), 4=229/7-7-11 (min. 0-1-8)
Max Horz 1=64(LC 7)
Max Uplift1=-34(LC 8), 3=-34(LC 8)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedpm Const\Wellons Realty\
27453	V12	Valley	1	1	Job Reference (optional)

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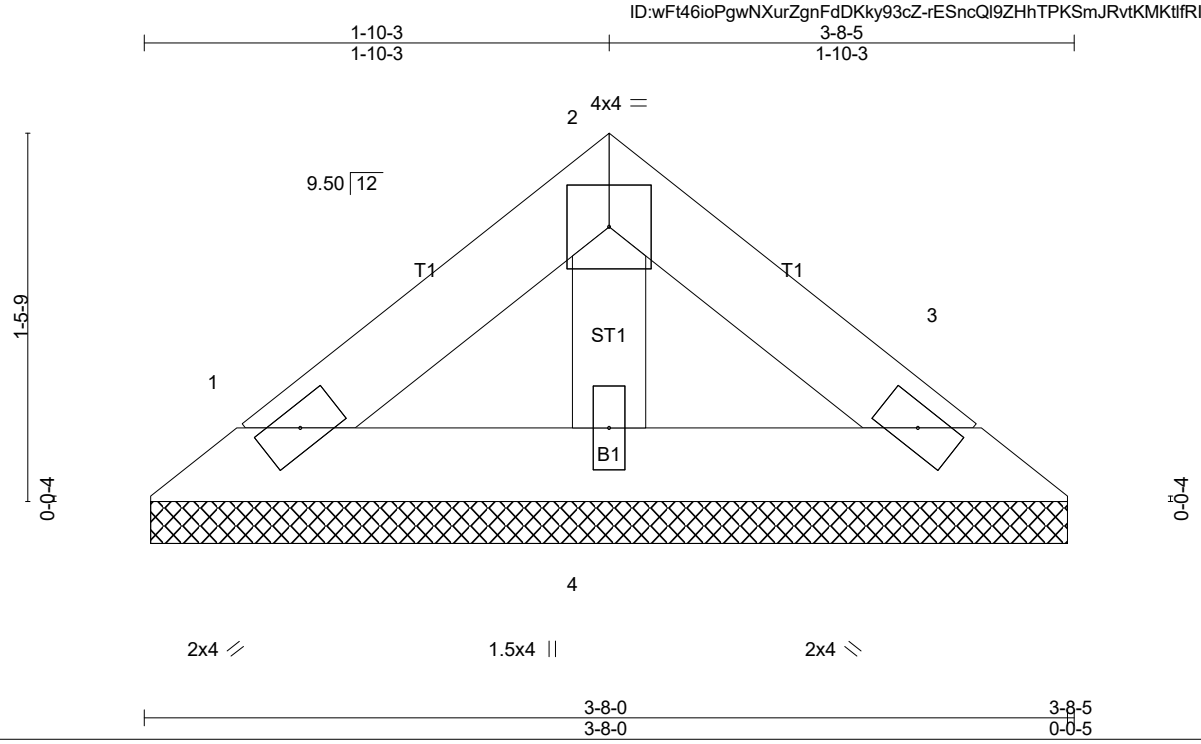

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=67/3-7-11 (min. 0-1-8), 3=67/3-7-11 (min. 0-1-8), 4=95/3-7-11 (min. 0-1-8)
Max Horz 1=27(LC 7)
Max Uplift1=-14(LC 8), 3=-14(LC 8)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard