



10401 Chapel Hill Rd Morrisville, NC 27560 Ph. 919-467-9988 Fax. 919-481-3255

DO210933 GFD BUILDERS STACEY WALKER RESID. BUNN LEVEL, NC



**Trenco** 

818 Soundside Rd Edenton, NC 27932

Re: DO210933 DON GILMORE

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Truss Builders, Inc..

Pages or sheets covered by this seal: I48157169 thru I48157194

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



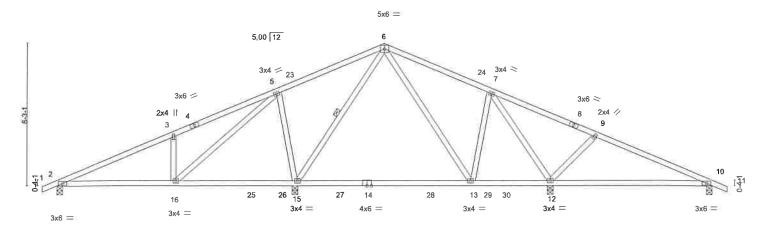
October 1,2021

Sevier, Scott

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

DON GILMORE Job Truss Truss Type Qty 148157169 DO210933 CT1 Common Job Reference (optional) Truss Builders, Inc., Morrisville, NC - 27560, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:33 2021 Page 1 ID:9lbiProxNuxtvvurUdbBCXyYoO9-ndMJAQZYr6SAMcTY7z6ufQdsRQvFbXkBeClKa0yYTca 31-2-13 38-0-0 12-10-10 6-1-6

Scale: 3/16"=1"



F 6-9		3-10-0 7-0-13		2-0 4-0		8-8-0 1-6-0	1	38-0-0 9-4-0	
COADING (psf)   TCLL (roof)   20.0   Snow (Pf)   15.0   TCDL   10.0   BCLL   0.0   * BCDL   10.0   * BCDL	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IBC2015/T	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.58 BC 0.92 WB 0.51 Matrix-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.37 13-15 -0.61 13-15 0.01 10	l/defl >484 >291 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 194 lb	<b>GRIP</b> 244/190 FT = 6%

LUMBER-

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

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt 6-15

REACTIONS. All bearings 0-4-0.

Max Horz 2=-108(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 15, 10

Max Grav All reactions 250 lb or less at joint(s) except 2=469(LC 30), 12=967(LC 31), 15=1375(LC 3),

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

TOP CHORD 2-3=-528/33, 3-5=-556/96, 5-6=0/404, 6-7=-342/129

**BOT CHORD** 2-16=-51/447

WEBS 3-16=-408/147, 7-12=-642/66, 9-12=-434/138, 6-15=-685/18, 5-15=-633/182,

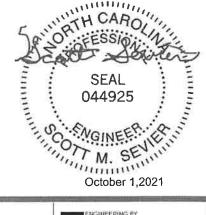
5-16=-127/850

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) 2, 12, 15, 10.

  9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



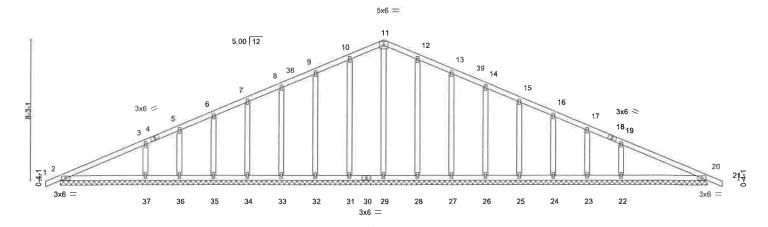
🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MTEk® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty DON GILMORE 148157170 DO210933 CT1GE Common Supported Gable Job Reference (optional) Morrisville, NC - 27560 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:35 2021 Page 1 Truss Builders, Inc., ID:9lbiProxNuxtvvurUdbBCXyYoO9-j?T3b6boNkiubwdxFO9MkriHxDmB3WmU5WnRevyYTcY 0-10-8

Scale: 3/16"=1"



						-0-0						
LOADING (psf) TCLL (roof) Snow (Pf) TCDL	20.0 15.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.26 0.19 0.16	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.01 0.02 0.01	(loc) 21 21 20	I/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 * 10.0	Code IBC2015/TP	12014	Matri	k-R	` ′					Weight: 223 lb	FT = 6%

38-0-0

LUMBER-

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

**BRACING-**

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 38-0-0.

Max Horz 2=-108(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22, 20 Max Grav All reactions 250 lb or less at joint(s) 2, 29, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 20 except 37=409(LC 30), 22=409(LC 31)

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

**WEBS** 3-37=-283/101, 19-22=-283/101

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cal. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22, 20.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 20.
- 14) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 9/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801

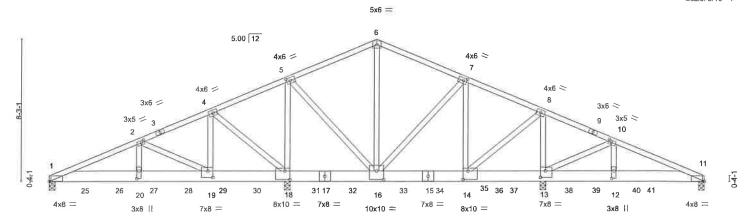


DON GILMORE Job Truss Truss Type Qty Ply 148157171 DO210933 CT1GT Common Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:39 2021 Page 1 ID:iC310G5R74jf1UmnMaZf7HyYoRf-cnjaRUeJRyCK4XxiUEDIvhtx5r0l?Bn408leogyYTcU Truss Builders, Inc., Morrisville, NC - 27560. 13-10-0 28-8-0 32-9-11 38-0-0

5-2-0

5-2-0

Scale: 3/16"=1"



13-10-0 28-8-0 38-0-0 32-9-11 [1:0-1-2,0-0-2], [2:0-2-0,0-1-8], [5:0-2-8,0-2-0], [7:0-2-8,0-2-0], [10:0-2-0,0-1-8], [11:0-1-2,0-0-2], [12:0-5-4,0-1-8], [13:0-3-8,0-4-8], [14:0-3-8,0-6-0], Plate Offsets (X,Y)-[16:0-5-0,0-6-0], [18:0-3-8,0-6-0], [19:0-3-8,0-4-8], [20:0-5-4,0-1-8] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) 1/defl L/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.04 14-16 >999 240 MT20 244/190 Snow (Pf) BC 0.66 -0.08 20-22 180 Lumber DOL 1 15 Vert(CT) >999 TCDL 10.0 Rep Stress Incr NO WB 0.73 Horz(CT) 0.01 11 n/a n/a BCLL 0.0 Code IBC2015/TPI2014 Weight: 809 lb FT = 6% Matrix-MR BCDI 10.0

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP No.2

2x4 SP No.3

All bearings 0-4-0 except (jt=length) 18=0-4-2 (input: 0-4-0), 13=0-4-6 (input: 0-4-0).

Max Horz 1=103(LC 37) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-137(LC 12)

All reactions 250 lb or less at joint(s) except 1=2983(LC 29), 18=10446(LC 3), 13=11189(LC 3), Max Grav 11=2315(LC 32)

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

4-1-11

4-6-0

TOP CHORD 1-2=-5070/259, 2-4=-1049/156, 4-5=-59/3123, 5-6=-877/0, 6-7=-888/0, 7-8=-1478/0,

8-10=0/2822, 10-11=-2068/0 1-20=-296/4666, 19-20=-296/4666, 18-19=-120/927, 16-18=-2839/143, 14-16=0/1322, BOT CHORD

13-14=-2569/0, 12-13=0/1909, 11-12=0/1909

5-18=-5660/0, 5-16=0/5302, 6-16=-30/555, 8-13=-5075/0, 10-13=-4968/0, 10-12=0/3765,

7-14=-57/731, 7-16=-835/43, 8-14=0/5047, 4-19=-160/4402, 4-18=-4822/266,

2-20=-61/3164, 2-19=-4172/196

### NOTES-

WFBS

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: 2x8 - 2 rows staggered at 0-5-0 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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)
- gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33 5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) WARNING: Required bearing size at joint(s) 18, 13 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 1.
- 11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI

SEAL 044925 NGINEER October 1,2021

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR

ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER

OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.)

6-0-0 oc bracing: 16-18,13-14.

OR THE BUILDING DESIGNER.

Continued on page 2

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 (ev. 5/19/2020 BEFORE USE Design valid for use only with MITEk® connectors. This design is based only upon parameters shown, and is for an individual building component, not a lruss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932

Job		Truss	Truss Type	Qty	Ply	DON GILMORE	1
DOMAGO	200	CT1GT	Common Cirdon			148157171	
DO2109	933	Cildi	Common Girder		3	Job Reference (optional)	

Truss Builders, Inc.,

Morrisville, NC - 27560.

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:39 2021 Page 2 ID:iC310G5R74jf1UmnMaZf7HyYoRf-cnjaRUeJRyCK4XxiUEDlvhtx5r0l?Bn408leogyYTcU

### NOTES:

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1250 lb down and 53 lb up at 2-0-0, 1250 lb down and 53 lb up at 4-0-0, 1250 lb down and 53 lb up at 6-0-0, 1250 lb down and 53 lb up at 10-0-0, 1250 lb down and 53 lb up at 12-0-0, 194 lb down and 163 lb up at 13-11-4, 1217 lb down at 17-6-8, 1285 lb down at 18-10-12, 1285 lb down at 20-5-15, 1280 lb down at 22-1-2, 1268 lb down at 23-8-5, 1285 lb down at 25-3-8, 1285 lb down at 26-10-11, 1285 lb down at 28-5-14, 1285 lb down at 30-1-1, 1285 lb down at 33-3-7, and 1285 lb down at 33-3-7, and 1285 lb down at 36-5-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

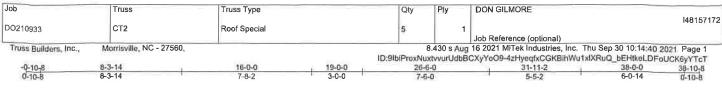
Uniform Loads (plf)

Vert: 1-6=-50, 6-11=-50, 1-11=-20

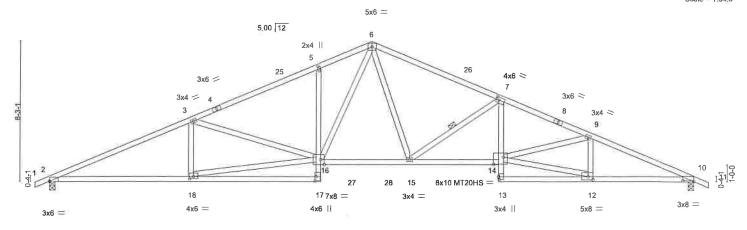
Concentrated Loads (lb)

Material Clouds (in)

Vert: 18=-40 16=-875(F) 13=-875(F) 15=-875(F) 24=-875(F) 25=-1074(F) 26=-1074(F) 27=-1074(F) 28=-1074(F) 29=-1074(F) 30=-1074(F) 32=-875(F) 35=-875(F) 35=-875(F) 36=-875(F) 37=-875(F) 38=-875(F) 39=-875(F) 40=-875(F) 41=-875(F)



Scale = 1:64.8



10.	8-3-1	4	16-0-0	21-3-0	y	26-6-0		31-11-2	38-0-0	
	8-3-1	4	7-8-2	5-3-0	k	5-3-0		5-5-2	6-0-14	
Plate Offsets	(X,Y) [2:0-0	-2,Edge], [5:0-2-0,0-0-12	, [7:0-1-12,0-2	!-0], [10:0-8-0,0-0-10], [12:	0-3-8,0-2-4], [13:	0-2-0,0-0-1	8], [14:0-7-4,0	-5-0], [16:0-2	-8,Edge], [17:0-3-0,0-0-	12],
	[18:0-	2-12,0-1-8]							V. 12 200	- 00/1
LOADING (ps TCLL (roof) Snow (Pf) TCDL	20.0 15.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.85 BC 0.99 WB 0.71	DEFL. Vert(LL) Vert(CT) Horz(CT)	in ( -0.26 14 -0.54 14 0.21		L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 244/190 187/143
BCLL BCDL	10.0	Code IBC2015/T	PI2014	Matrix-MR	(- ,				Weight: 213 lb	FT = 6%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

HIMBER-

2x4 SP No.2 \*Except\* TOP CHORD

1-4: 2x4 SP No.1D 2x4 SP No.2 \*Except\* BOT CHORD

2-17: 2x4 SP No.1D, 5-17,7-13: 2x4 SP No.3

2x4 SP No.3 \*Except\* WFBS

16-18.12-14: 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 10=0-4-0

Max Horz 2=108(LC 12)

Max Uplift 2=-58(LC 12), 10=-58(LC 13)

Max Grav 2=1573(LC 2), 10=1573(LC 2)

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

TOP CHORD 2-3=-3254/94, 3-5=-2803/79, 5-6=-2715/131, 6-7=-2648/56, 7-9=-3693/73,

9-10=-3391/95

BOT CHORD 2-18=-115/2952, 17-18=0/257, 5-16=-339/120, 15-16=0/2101, 14-15=0/3422, 7-14=0/755, 10-12=-26/3078

16-18=-150/2728, 3-16=-561/120, 6-16=-112/975, 6-15=-13/842, 7-15=-1292/143, 12-14=-22/2901, 9-14=-5/298, 9-12=-521/65

### NOTES-

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2 and 58 lb uplift at ioint 10.
- 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI



Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

7-15

2-2-0 oc bracing: 14-15,10-12.

1 Row at midpt

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-7473 rev, £/19/2020 BEFORE USE. Design valid for use only with MTER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for slability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



DON GILMORE Job Truss Truss Type Qty 148157173 DO210933 CT2GE Common Supported Gable Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:41 2021 Page 1 Morrisville, NC - 27560, Truss Builders, Inc., ID:9IbiProxNuxtvvurUdbBCXyYoO9-Y9rKrAfZzaS2Jr54bfGm\_6yJpeqdTGjMTSElsZyYTcS 14-0-0 7-0-0 15-7-8 4x6 = Scale = 1:35.4 9.00 12 0-6-13 5x6 = 12 10 5x6 = 11 14 13 LOADING (psf) SPACING-CSI. DEFL. in I/defl L/d **PLATES** GRIP 1-11-4 (loc) TCLL (roof) 20.0 244/190 Plate Grip DOL 1.15 TC 0.24 Vert(LL) -0.01 120 MT20 n/r Snow (Pf) 15.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.01 9 n/r 120 TCDL 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0,00 8 n/a 0.0 **BCLL** Code IBC2015/TPI2014 Matrix-R Weight: 80 lb FT = 6% BCDL 10.0

**BRACING-**

TOP CHORD

**BOT CHORD** 

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

REACTIONS.

All bearings 14-0-0.

(lb) - Max Horz 2=121(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) 2, 8, 13, 14, 11, 10.
- 12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

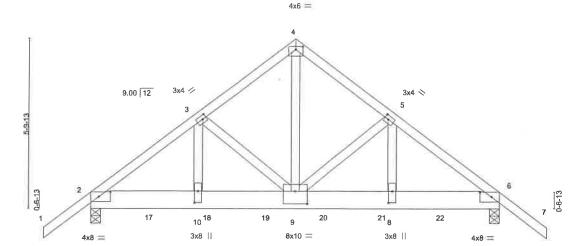
Rigid ceiling directly applied or 10-0-0 oc bracing.

WARNING + Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIE/7475 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \_\_\_\_\_ASTIFP11 Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Joh Truss Truss Type Qty Ply DON GILMORE 148157174 DO210933 CT2GT 2 Common Girder 2 Job Reference (optional) Truss Builders, Inc., Morrisville, NC - 27560, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:43 2021 Page 1 ID:iC31OG5R74jf1UmnMaZf7HyYoRf-UYy5GrhpVBjlZ9ETj4lE3X2fGSNZxxxfxmjsxRyYTcQ 14-0-0 10-3-15 15-7-8 3-8-3-3-15 3-3-15 3-8-1



	3-8-1 3-8-1	7-0-0 3-3-15	10-3-15 3-3-15	14-0-0 3-8-1		
Plate Offsets (X,Y) [2:0-4-13	3,0-2-0], [3:0-1-8,0-1-8], [4:0-3-0,0-1-4]	. [5:0-1-8,0-1-8], [6:0-4-1	3,0-1-15], [8:0-4-12,0-1-8],	[9:0-5-0,0-5-4], [10:0-4-12,0-	1-8]	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-         1-11-4           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         NO           Code IBC2015/TPI2014	CSI. TC 0.24 BC 0.67 WB 0.98 Matrix-MR	DEFL. in Vert(LL) -0.05 Vert(CT) -0.10 Horz(CT) 0.02	(loc) I/defl L/d 8-9 >999 240 8-9 >999 180 6 n/a n/a	MT20 24	RIP 4/190 -T = 6%

7-0-0

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP No.2 2x4 SP No.3 WEBS

BRACING-TOP CHORD BOT CHORD

10-3-15

Structural wood sheathing directly applied or 5-1-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-0, 6=0-4-0 Max Horz 2=-121(LC 32)

Max Uplift 2=-135(LC 10), 6=-135(LC 11) Max Grav 2=4352(LC 3), 6=4352(LC 3)

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

TOP CHORD 2-3=-5797/156, 3-4=-4148/157, 4-5=-4148/157, 5-6=-5797/154

**BOT CHORD** 2-10=-119/4604, 9-10=-119/4604, 8-9=-73/4604, 6-8=-73/4604

WEBS 4-9=-125/4716, 5-9=-1713/110, 5-8=-23/1982, 3-9=-1713/108, 3-10=-21/1982

### NOTES-

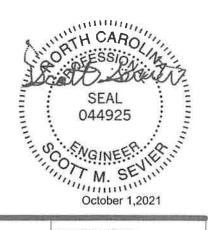
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15
- Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=135, 6=135.
- 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1266 lb down and 42 lb up at 2-0-0, 1266 lb down and 42 lb up at 4-0-0, 1266 lb down and 42 lb up at 6-0-0, 1266 lb down and 42 lb up at 8-0-0, and 1266 lb down and 42 lb up at 10-0-0, and 1266 lb down and 42 lb up at 12-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Scale = 1:37.6

rt.OAD.CASE(SheStandard

🛕 WARNING - Verify design paraméters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 (ev. 6/19/2020 BEFORE USE. Design valid for use only with MTEA® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of Inusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job	Truss	Truss Type	Qty	Ply	DON GILMORE	
DOGGOOGO	OTOOT	0			I48157	174
DO210933	CT2GT	Common Girder	2	2	Job Reference (optional)	

Truss Builders, Inc.,

Morrisville, NC - 27560,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:43 2021 Page 2
ID:iC31OG5R74jf1UmnMaZf7HyYoRf-UYy5GrhpVBjlZ9ETJ4lE3X2fGSNZxxxfxmjsxRyYTcQ

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-48, 4-7=-48, 11-14=-19

Concentrated Loads (lb)

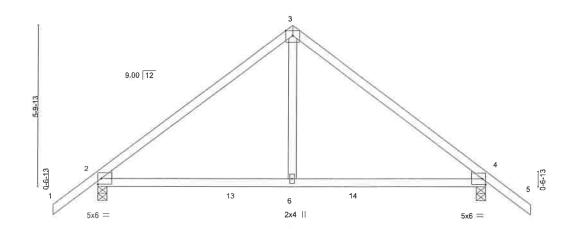
Vert: 17=-1074(B) 18=-1074(B) 19=-1074(B) 20=-1074(B) 21=-1074(B) 22=-1074(B)

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

Job Truss Truss Type Qty DON GILMORE Ply 148157175 DO210933 CT3 Common 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:44 2021 Page 1 Morrisville, NC - 27560, Truss Builders, Inc., ID:9lbiProxNuxtvvurUdbBCXyYoO9-zkWTUBiRFVrcAJpfGnpTckalMsmDgcap9QSPTuyYTcP 15-7-8 1-7-8 14-0-0 7-0-0

5x6 MT20HS =

Scale = 1:39.6



			7-0-0	135	7-0-0				
LOADING (p: TCLL (roof) Snow (Pf) TCDL BCLL	5f) 20.0 15.0 10.0	SPACING- 1-11-4 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.54 BC 0.45 WB 0.12	( ,	in (loc) -0.06 6-12 -0.10 6-12 0.01 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	<b>GRIP</b> 244/190 187/143
BCDL	10.0	Code IBC2015/TPI2014	Matrix-MR					Weight: 62 lb	FT = 6%

**BRACING-**

TOP CHORD

BOT CHORD

14-0-0

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

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

WEBS 2x4 S WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS.

(size) 2=0-4-0, 4=0-4-0 Max Horz 2=121(LC 9)

Max Uplift 2=-30(LC 10), 4=-30(LC 11) Max Grav 2=643(LC 22), 4=643(LC 23)

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

TOP CHORD 2-3=-646/56, 3-4=-646/56

BOT CHORD 2-6=0/482, 4-6=0/482

WEBS 3-6=0/309

### NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33

7-0-0

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) 2, 4.
- 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1,



WARNING + Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIN-7473 rev. 6/19/2020 BEFORE USE
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DON GILMORE Qty Job Truss Truss Type Plv 148157176 DO210933 CT3GE Piggyback Base Structural Gable COMMON Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:46 2021 Page 1

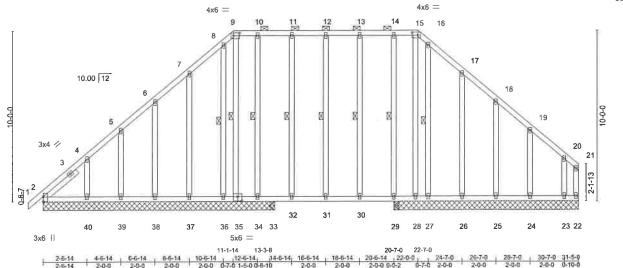
Truss Builders, Inc.

Morrisville, NC - 27560,

ID:iC31QG5R74jf1UmnMaZf7HyYoRf-v7eDvtjin65KQcz2QCrxh9g7AfP88VT6dkxWXmyYTcN

22-7-0 -p-10-6 2-6-14 4-5-14 6-6-14 8-6-14 10-6-14 12-6-14 14-6-14 16-6-14 18-6-14 20-6-14 22-0-0 24-7-0
0-10-8 2-6-14 20-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 1-5-1 0-7-0 2-0-0

Scale: 3/16"=11



LOADING (ps TCLL (roof) Snow (Pf) TCDL	20.0 15.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.39 0.68 0.16	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.07 30-31 -0.12 30-31 0.00 22	l/defl >999 >715 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	10.0	Code IBC2015/TF			x-MR	1.0.2(0.1)				Weight: 293 lb	FT = 6%

1-3-6

LUMBER-

TOP CHORD 2x4 SP No.2

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

Left 2x4 SP No.3 2-6-0 SLIDER

BRACING-TOP CHORD

BOT CHORD

**WEBS** 

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-15.

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt

1-5-0

9-35, 12-31, 13-30, 14-29, 10-34, 11-32, 8-36, 16-27

REACTIONS.

All bearings 13-7-0 except (jt=length) 28=10-10-0, 22=10-10-0, 27=10-10-0, 26=10-10-0, 25=10-10-0, 24=10-10-0, 23=10-10-0, 33=0-3-8, 29=0-3-8, 29=0-3-8.

Max Horz 2=214(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 35, 22, 39, 38, 37, 36, 26, 25, 24, 33, 29 except 2=-104(LC 6),

28=-408(LC 28), 34=-329(LC 3), 40=-102(LC 10), 23=-159(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 35, 28, 22, 34, 40, 39, 38, 37, 36, 27, 26, 25, 24, 23, 2 except 33=798(LC 3), 29=755(LC 28), 29=538(LC 1)

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

14-29=-315/50 WFRS

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

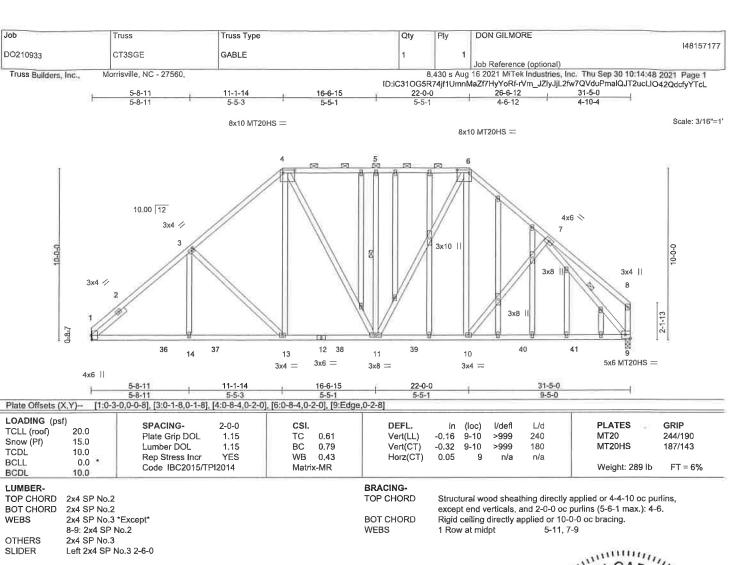
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) qable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) 35, 22, 39, 38, 37, 36, 26, 25, 24, 33, 29 except (jt=lb) 2=104, 28=408, 34=329, 40=102, 23=159, 2=104
- 12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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818 Soundside Road



(size) 1=Mechanical, 9=0-3-8

Max Horz 1=204(LC 9)

Max Uplift 1=-33(LC 10), 9=-23(LC 11) Max Grav 1=1270(LC 3), 9=1286(LC 3)

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

TOP CHORD 1-3=-1635/73, 3-4=-1359/127, 4-5=-1057/114, 5-6=-1057/114, 6-7=-1255/114,

7-8=-369/46, 8-9=-325/54

BOT CHORD 1-14=-90/1269, 13-14=-90/1269, 11-13=-57/988, 10-11=0/911, 9-10=-10/872 WEBS 3-13=-392/142, 4-13=-22/458, 4-11=-115/254, 5-11=-338/114, 6-11=-104/388,

6-10=-11/304, 7-9=-1134/33

### NOTES-

REACTIONS.

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
- 13) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 1,2021





B18 Soundside Road Edenlon, NC 27932

DON GIL MORE Joh Truss Truss Type Qty 148157178 DO210933 CT5 Piggyback Base Job Reference (optional) 8,430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:50 2021 Page 1
ID:iC310G5R74jf1UmnMaZf7HyYoRf-nutkkEmCrLbmuEHpd2wtr?qmpGkX4EJhYMvkgXyYTcJ Truss Builders, Inc., Morrisville, NC - 27560 16-6-15 5-5-1 22-0-0 0-10-8 26-6-12 4-6-12 5-5-1 Scale: 3/16"=1' 8x10 MT20HS = 8x10 MT20HS = 2x4 || 10.00 12 4x6 💉 3x4 // 3x4 II 3x4 4 21 13 22 25 20 10 15 3x6 = 5x6 MT20HS == 2x4 || 3x4 = 3x8 = 3x4 =4x6 || 11-1-14 22-0-0 16-6-15 31-5-0 [2:Edge,0-0-0], [4:0-1-8,0-1-8], [5:0-8-4,0-2-0], [7:0-8-4,0-2-0], [10:Edge,0-2-8] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. DEEL. (loc) **PLATES** GRIP 2-0-0 in I/defl I /d TCLL (roof) 20.0 244/190 Plate Grip DOL TC 0.61 Vert(LL) -0.16 10-11 MT20 1.15 >999 240 Snow (Pf) 15.0 MT20HS Vert(CT) 187/143 Lumber DOL 1.15 BC 0.77 -0.32 10-11 >999 180 TCDL 10.0 YES WB 0.42 Rep Stress Incr Horz(CT) 0.05 10 n/a n/a **BCLL** 0.0 Code IBC2015/TPI2014 FT = 6% Matrix-MR Weight: 224 lb BCDL 10.0 LUMBER-**BRACING-**2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins,

BOT CHORD

WEBS

TOP CHORD

**BOT CHORD** 2x4 SP No.2

**WEBS** 2x4 SP No.3 \*Except\*

9-10: 2x4 SP No.2

Left 2x4 SP No.3 2-6-0 SLIDER

REACTIONS.

(size) 2=0-4-0, 10=Mechanical

Max Horz 2=214(LC 9)

Max Uplift 2=-45(LC 10), 10=-23(LC 11) Max Grav 2=1314(LC 3), 10=1282(LC 3)

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

TOP CHORD 2-4=-1631/72, 4-5=-1357/127, 5-6=-1056/114, 6-7=-1056/114, 7-8=-1253/114,

8-9=-365/46, 9-10=-323/54

BOT CHORD 2-15=-88/1265, 14-15=-88/1265, 12-14=-57/986, 11-12=0/909, 10-11=-10/870 WEBS

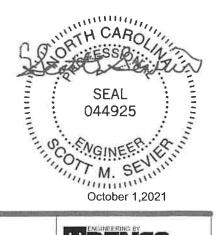
4-14=-388/141, 5-14=-22/456, 5-12=-115/254, 6-12=-338/114, 7-12=-104/387,

7-11=-11/302, 8-10=-1133/33

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs
- non-concurrent with other live loads.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



except end verticals, and 2-0-0 oc purlins (5-6-1 max.): 5-7.

6-12, 8-10

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

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ANS/ITPI1 Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932

Job Truss Type Qty DON GILMORE Truss Ply 148157179 DO210933 CT5A Piggyback Base 6 Job Reference (optional) Morrisville, NC - 27560 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:51 2021 Page 1 Truss Builders, Inc., ID:iC31OG5R74jf1UmnMaZf7HyYoRf-F4R6yanqcejdWNr?BIR6ODNxYg4bphUrm?fHD\_yYTcl 31-5-0 11-1-14 16-6-15 22-0-0 26-6-12 5-5-Scale: 3/16"=1" 8x10 MT20HS = 8x10 MT20HS = 2x4 || 10.00 12 4x6 < 3x4 / 3x4 || 2-1-13 0-B-7 12 21 22 24 19 20 13 10 14 11 3x6 5x6 MT20HS = 2x4 || 3x4 = 3x8 = 3x4 = 4x6 || 11-1-14 5-5-3 16-6-15 31-5-0 [1:0-3-0,0-0-8], [3:0-1-8,0-1-8], [4:0-8-4,0-2-0], [6:0-8-4,0-2-0], [9:Edge,0-2-8] Plate Offsets (X,Y)-LOADING (psf) SPACING-CSI DEFL. I/defl L/d **PLATES** GRIP (loc) TCLL (roof) 20.0 Plate Grip DOL TC 0.61 Vert(LL) -0.16 9-10 >999 240 MT20 244/190 1.15 Snow (Pf) 15.0 Lumber DOL 1.15 ВС 0.79 Vert(CT) -0.32 9-10 >999 180 MT20HS 187/143 TCDL 10.0 Rep Stress Incr YES WB 0.43 Horz(CT) 0.05 9 n/a n/a BCLL. 0.0 Code IBC2015/TPI2014 Matrix-MR Weight: 222 lb FT = 6% BCDL 10.0 LUMBER-BRACING-2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins, TOP CHORD except end verticals, and 2-0-0 oc purlins (5-6-1 max.): 4-6. Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD 2x4 SP No.2 2x4 SP No.3 \*Except\* BOT CHORD WEBS 8-9: 2x4 SP No.2 5-11, 7-9 WEBS 1 Row at midpt

Left 2x4 SP No.3 2-6-0 SLIDER

REACTIONS.

(size) 1=Mechanical, 9=Mechanical

Max Horz 1=204(LC 9)

Max Uplift 1=-33(LC 10), 9=-23(LC 11)

Max Grav 1=1270(LC 3), 9=1286(LC 3)

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

TOP CHORD 1-3=-1635/73, 3-4=-1359/127, 4-5=-1057/114, 5-6=-1057/114, 6-7=-1255/114, 7-8=-369/46, 8-9=-325/54

**BOT CHORD** 

1-14=-90/1269, 13-14=-90/1269, 11-13=-57/988, 10-11=0/911, 9-10=-10/872 **WEBS** 3-13=-392/142, 4-13=-22/458, 4-11=-115/254, 5-11=-338/114, 6-11=-104/388,

6-10=-11/304, 7-9=-1134/33

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
- 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



▲ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-7473 (ev. 5/19/2020 BEFORE USE. 



Job DON GILMORE Truss Truss Type Qtv Plv 148157180 DO210933 CT6 Piggyback Base Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:54 2021 Page 1 Morrisville, NC - 27560, Truss Builders, Inc., ID:iC31OG5R74jf1UmnMaZf7HyYoRf-gf7FacpjvZ5CNraast?p0r?QRu7w0\_0HTztxplyYTcF 17-10-0 22-0-0 4-2-0 24-10-0 31-5-0 6-7-0

6-8-2

Scale: 3/16"=1" 7x8 = 7x8 = 3x4 = 6 2x4 || 3x4 / 10.00 12 2x4 ||

23

14

5x8 =

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

24

6-0-0 oc bracing: 13-14.

1 Row at midpt

3x8 =

Structural wood sheathing directly applied or 3-11-8 oc purlins,

7-14, 8-13

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

11-1-14 3-10-15 17-10-0 2-10-0 5-2-1 2-0-14

[2:0-2-11,0-0-6], [6:0-6-4,0-2-0], [8:0-6-4,0-2-0], [10:0-3-4,0-1-4], [12:0-2-12,0-1-8], [14:0-5-4,0-2-4] Plate Offsets (X,Y)-LOADING (psf) **PLATES** SPACING-CSI. I/defl **GRIP** (loc) L/d TCLL (roof) 20.0 -0.11 13-14 240 MT20 244/190 Plate Grip DOL 1.15 TC 0.69 Vert(LL) >999 Snow (Pf) 15.0 Vert(CT) -0.19 16-17 Lumber DOL 1.15 BC 0.68 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.70 Horz(CT) 0.13 12 n/a n/a **BCLL** 0.0 Code IBC2015/TPI2014 Matrix-MR Weight: 228 lb FT = 6% BCDL 10.0

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.3 2-6-0

3x4 /

4x6 ||

(size) 2=0-4-0, 12=0-4-0, 13=0-4-0 Max Horz 2=219(LC 9)

Max Uplift 2=-35(LC 10), 12=-355(LC 26), 13=-48(LC 10) Max Grav 2=911(LC 2), 12=99(LC 7), 13=1904(LC 2)

3x4 =

5.00 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1721/129, 4-5=-1673/250, 5-6=-1422/154, 6-7=-684/122, 7-8=-302/127,

8-9=-65/585, 9-10=-57/675, 10-12=-62/411 2-17=-198/1382, 16-17=-185/1270, 15-16=-117/755, 14-15=-72/341 BOT CHORD

6-15=-501/123, 7-15=-70/580, 7-14=-799/165, 9-13=-360/217, 10-13=-554/108, WEBS

8-14=-63/888, 8-13=-1316/109, 5-16=-266/150, 6-16=-113/1125

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33

5x6 = 15

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 12=355.
- 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



10

3x5 ||

2-1-13

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 5/19/2020 6EFORE USE, Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design, Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for slability and to prevent uccliagse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-69 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



DON GILMORE Job Truss Truss Type Qty 148157181 DO210933 PB1GE GABLE 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:56 2021 Page 1 ID:9lbiProxNuxtvvurUdbBCXyYoO9-c2F??lrzRBLvd9kzzI1H5G4v5hzJU2sawHM2uByYTcD Truss Builders, Inc., Morrisville, NC - 27560, Scale = 1:28.7 4x6 =10.00 12 2x4 II 5 2x4 || 19-1 9 10 3x6 = 3x6 = 2x4 || 2x4 || 2x4 || 10-10-1 LOADING (psf) **PLATES** GRIP SPACING-DEFL. 2-0-0 CSI. în (loc) I/defl I/d TCLL (roof) Plate Grip DOL 0.11 Vert(LL) MT20 244/190 1.15 TC n/a n/a 999 15.0 Snow (Pf) BC 0.05 Vert(CT) 999 Lumber DOL 1.15 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 6 n/a n/a BCLL 0.0 Code IBC2015/TPI2014 Weight: 47 lb FT = 6% Matrix-R 10.0 BCDL LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SP No.2 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.3 OTHERS

REACTIONS. All bearings 10-10-1.

(lb) -Max Horz 1=-83(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 6, 10, 8 except 1=-138(LC 22) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 6, 9, 10, 8 except 2=265(LC 22)

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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- 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 where a reclangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 6, 10, 8 except (jt=lb) 1=138.
- 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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DON GILMORE Job Ply Truss Truss Type Qty 148157182 DO210933 PB2 21 Piggyback Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:57 2021 Page 1 Morrisville, NC - 27560. Truss Builders, Inc., ID:iC31OG5R74jf1UmnMaZf7HyYoRf-4EoOCesbBUUmEIJ9X0YWdUd0D5HeDUXj9x6bQdyYTcC 10-10-1 Scale = 1:29.3 4x6 || 10.00 12 구 4 6 3x6 = 2x4 || 10-10-1 Plate Offsets (X,Y)-- [2:0-4-1,0-1-8], [4:0-4-1,0-1-8] LOADING (psf) **PLATES** GRIP SPACING-2-0-0 CSI. DEFL. l/defl Ľd (loc) TCLL (roof) 20.0 MT20 244/190 Plate Grip DOL 1.15 TC 0.34 Vert(LL) -0.01 4-6 >999 240 Snow (Pf) 15.0 Vert(CT) Lumber DOL 1.15 вС 0.17 -0.01 4-6 >999 180 TCDL 10.0 Rep Stress Incr WB 0.07 Horz(CT) n/a n/a **BCLL** 0.0 Code IBC2015/TPI2014 Weight: 41 lb FT = 6% BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SP No.3

REACTIONS. All bearings 10-10-1.

(lb) -Max Horz 1=-84(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-384(LC 22), 5=-278(LC 27), 5=-211(LC 1), 2=-191(LC

10), 4=-140(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=620(LC 22), 4=540(LC 27), 6=315(LC 2)

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

TOP CHORD 1-2=-139/282

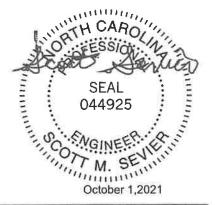
### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 384 lb uplift at joint 1, 278 lb uplift at joint 5, 191 lb uplift at joint 2 and 140 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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818 Soundside Road

Job DON GILMORE Truss Truss Type Qty Plv 148157183 DO210933 PB3 Piggyback 12 | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:58 2021 Page 1 Morrisville, NC - 27560, Truss Builders, Inc., ID:iC31OG5R74jf1UmnMaZf7HyYoRf-YQMmQ\_tDyocdsSuL5j3lAh9EvVeCyyWtNbr9z4yYTcB 3-10-2 3-10-2 7-8-4 4x6 = Scale = 1:21.1 3 10,00 12 -0-13 0-4-13 0-4-13 0-1-10 0-1-10 3x6 = 3x6 == 2x4 || Plate Offsets (X,Y)-- [2:0-4-1,0-1-8], [4:0-4-1,0-1-8] LOADING (psf) SPACING-1-7-3 CSI. DEFL **PLATES** (loc) I/defl L/d TCLL (roof) 20.0 MT20 244/190 Plate Grip DOL 1.15 TC 0.15 Vert(LL) 0.00 n/r 120 Snow (Pf) 15.0 120 Lumber DOL 1.15 вс 0.08 Vert(CT) 0.01 n/r TCDL 10.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IBC2015/TPI2014 Matrix-P Weight: 28 lb FT = 6% BCDI 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD

BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=6-4-13, 4=6-4-13, 6=6-4-13

Max Horz 2=-46(LC 8)

Max Uplift 2=-17(LC 10), 4=-23(LC 11)

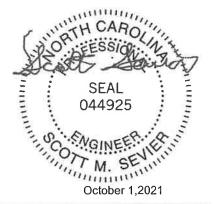
Max Grav 2=138(LC 2), 4=138(LC 2), 6=172(LC 2)

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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; L=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2 and 23 lb uplift at
- 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 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.



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818 Soundside Road

Job DON GILMORE Truss Truss Type Qty Ply 148157184 DO210933 PB3GE Piggyback Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:14:59 2021 Page 1 ID:iC310G5R74jf1UmnMaZf7HyYoRf-0dw8dJlsj6kUUcTYfRa\_iviPfv\_RhPm0cFbivWyYTcA Morrisville, NC - 27560. Truss Builders, Inc., Scale = 1:21.1 4x6 =10.00 12 0-4-13 0-4-13 0-1-10 6 3x6 = 3x6 = 2x4 П Plate Offsets (X,Y)-[2:0-4-1,0-1-8], [4:0-4-1,0-1-8] LOADING (psf) SPACING-1-7-3 CSI. DEFL. PLATES GRIP in (loc) I/defl I/dTCLL (roof) 20.0 Plate Grip DOL 244/190 1.15 0.00 TC 0.15 Vert(LL) MT20 5 n/r 120 Snow (Pf) 15.0 Vert(CT) BC Lumber DOL 1.15 0.08 0.01 5 n/r 120 TCDL 10.0 Rep Stress Incr WB YES 0.03 Horz(CT) 0.00 4 n/a n/a 0.0 **BCLL** Code IBC2015/TPI2014 FT = 6% Matrix-P Weight: 28 lb BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS

2x4 SP No.3

REACTIONS.

(size) 2=6-4-13, 4=6-4-13, 6=6-4-13 Max Horz 2=-46(LC 8)

Max Uplift 2=-17(LC 10), 4=-23(LC 11)

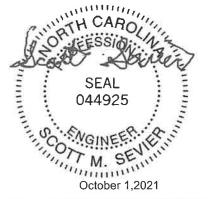
Max Grav 2=138(LC 2), 4=138(LC 2), 6=172(LC 2)

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 7-10; Vull=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15
- Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2 and 23 lb uplift at
- 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 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



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT 7473 (ev. 9/19/2020 BEFORE USE Design valid for use only with MTTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss experts. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type DON GILMORE Qty Ply 148157185 DO210933 PB4 Piggyback Job Reference (optional) 8.430 s Aug 16 2021 MTek Industries, Inc. Thu Sep 30 10:15:00 2021 Page 1 ID:iC31OG5R74jf1UmnMaZf7HyYoRf-VpUWrfuUUPsL5m2kC85DF6FbblKKQsE9rvKG1yyYTc9 Morrisville, NC - 27560, Truss Builders, Inc., 3-10-2 Scale = 1:21.1 4x6 = 3 THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0" OF UNIFORM LOAD AS SHOWN 10,00 12 0-4-13 0-4-13 3x6 =3x6 =2x4 || Plate Offsets (X,Y)- [2:0-4-1,0-1-8], [4:0-4-1,0-1-8] LOADING (psf) SPACING-DEFL. **PLATES** 1-7-3 CSI. I/defl L/d GRIP in (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) 244/190 0.00 120 MT20 n/r Snow (Pf) 15.0 Lumber DOL 1.15 BC 0.04 0.00 120 Vert(CT) 5 n/r TCDL 10.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IBC2015/TPI2014 Matrix-P Weight: 56 lb FT = 6% BCDI 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=6-4-13, 4=6-4-13, 6=6-4-13 Max Horz 2=-46(LC 8) Max Uplift 2=-17(LC 10), 4=-23(LC 11)

Max Grav 2=138(LC 2), 4=138(LC 2), 6=172(LC 2)

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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2 and 23 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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DON GILMORE Job Qty Plv Truss Truss Type 148157186 DO210933 T1 Attic 12 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:15:02 2021 Page 1 Morrisville, NC - 27560, Truss Builders, Inc., ID:iC31OG5R74jf1UmnMaZf7HyYoRf-RCcHFLwk0163L4B7KZ8hKXKmy6qYuXPSIDpM6ryYTc7 11-1-14 20-3-3 1-7-8 3-11-0 1-7-8 3-11-0 9-8-12 10-7-12 0-11-0 5x6 MT20HS = Scale: 3/16"≈1' 5x6 MT20HS = 2x4 || 5x6 = 5x6 = 4x8 / 9 4x8 N 218 4x6 / 4x6 N 4x8 = 10 10:00 12 4x6 / 4x6 \ 12 18-15 17 16 14 13 5x8 = 7x10 = 3x6 || 10x10 = 10x10 = 3x6 || 5x8 = 26-1-0 30-0-0 3-11-0 3-11-4 3-11-4 [2:0-3-3,0-2-8], [5:Edge,0-2-4], [6:0-4-4,0-2-0], [8:0-4-4,0-2-0], [9:Edge,0-2-4], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-3-3,0-2-8], [14:0-3-8], [14:0-3-8], [14:0-3-8], [14:0-3-8], [14:0-3-8], [14:0-3-8], [14:0-3-8], [14:0-3-Plate Offsets (X,Y)-,0-7-0], [16:0-3-8,0-7-0] LOADING (psf) **PLATES** GRIP SPACING-1-7-3 CSI. DEFL. in (loc) I/defl Ľd TCLL (roof) 20.0 240 MT20 244/190 Plate Grip DOL 1.15 TC 0.79 Vert(LL) -0.32 14-16 >999 Snow (Pf) 15.0 -0.45 14-16 Lumber DOL 1.15 вс 0.83 Vert(CT) >801 180 MT20HS 187/143 TCDL 10.0 Rep Stress Inci YES WB 0.99 Horz(CT) 0.02 n/a n/a 0.0 BCLL Code IBC2015/TPI2014 -0.19 14-16 923 360 Weight: 280 ib FT = 6% Matrix-MR Attic BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 \*Except\* TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except 1-6,8-12: 2x6 SP No.1D 2-0-0 oc purlins (6-0-0 max.): 6-8. BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. JOINTS 1 Brace at Jt(s): 18

2x10 SP No.2 WEBS 2x4 SP No.3 \*Except\*

5-9: 2x4 SP No.2

(size) 12=Mechanical, 2=0-4-0

Max Horz 2=160(LC 9)

Max Uplift 2=-5(LC 10)

Max Grav 12=1238(LC 3), 2=1306(LC 3)

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

TOP CHORD 2-3=-1685/1, 3-4=-1789/0, 4-5=-1135/50, 5-6=-25/698, 6-7=-22/1219, 7-8=-22/1219,

8-9=-23/697, 9-10=-1135/49, 10-11=-1791/0, 11-12=-1705/15

2-17=-50/1399, 16-17=-50/1399, 14-16=0/1192, 13-14=0/1337, 12-13=0/1337 BOT CHORD WEBS 4-16=0/967, 5-18=-2136/109, 9-18=-2129/103, 10-14=0/968, 3-17=-401/69, 3-16=-322/163, 11-13=-392/71, 11-14=-346/176, 8-18=-261/382, 6-18=-257/384

### NOTES-

REACTIONS.

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-18, 9-18
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 2.
- 13) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 (ev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters and properly and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent occllapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, rection and bracing of trusses and truss systems, see AISTIPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road

Job Truss Type Qty Ply DON GILMORE Truss 148157187 ATTIC DO210933 TG1 Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:15:04 2021 Page 1 Truss Builders, Inc., Morrisville, NC - 27560, ID:iC31OG5R74jf1UmnMaZf7HyYoRf-Nak1g1x\_YeMnaNLVR\_AAQyP5SwVbMaeImXiTAjyYTc5 10-7-12 20-3-3 9-8-12 11-1-14 19-4-4 | 22-1-12 0-6-2 | 1-10-9 5x6 MT20HS = 0-10-15 Scale = 1:68.0 5x6 MT20HS = 2x4 || 5x6 = 5x6 = 4x8 // q 4x8 N 150 3x8 // 3x8 N 4x8 = 10 10,00 12 3x4 N 11 3 122-8-0 15 17 16 14 13 5x8 = 7x10 = 3x6 || 10x10 = 10x10 = 3x6 || 5x8 = 3-11-0 7-10-4 22-1-12 26-1-0 30-0-0 3-11-4 3-11-0 3-11-4 [2:0-3-3,0-2-8], [3:0-1-8,0-1-8], [4:0-3-8,0-1-8], [5:Edge,0-2-4], [6:0-4-4,0-2-0], [8:0-4-4,0-2-0], [9:Edge,0-2-4], [10:0-3-8,0-1-8], [11:0-1-8,0-1-8], [12:0-3-8,0-1-8], [11:0-1-8,0-1-8], [11 Plate Offsets (X,Y)--0-2-8], [14:0-3-8,0-7-0], [16:0-3-8,0-7-0] LOADING (psf) SPACING-DEFL. **PLATES GRIP** CSI. (loc) 1/defl L/d TCLL (roof) 20.0 Plate Grip DOL TC 0.85 -0.30 14-16 240 MT20 244/190 1.15 Vert(LL) >999 Snow (Pf) 15.0 Lumber DOL 1.15 BC 0.85 Vert(CT) -0.42 14-16 >854 180 MT20HS 187/143 TCDI 10.0 Rep Stress Incr NO WB 0.43 Horz(CT) 0.02 12 n/a n/a **BCLL** 0.0 Code IBC2015/TPI2014 Matrix-MR Attic -0.17 14-16 984 360 Weight: 560 lb FT = 6% BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 \*Except\* TOP CHORD 2-0-0 oc purlins (6-0-0 max.) 1-6.8-12: 2x6 SP No.1D (Switched from sheeted: Spacing > 2-8-0). 2x10 SP No.2 2x4 SP No.3 \*Except\* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD

**JOINTS** 

1 Brace at Jt(s): 6, 8, 18

Thillimmondian

WEBS

5-9: 2x4 SP No.2

REACTIONS. (size) 12=Mechanical, 2=0-4-0

Max Horz 2=300(LC 9)

Max Uplift 2=-9(LC 10)

Max Grav 12=2322(LC 3), 2=2451(LC 3)

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

TOP CHORD 2-3=-3162/0, 3-4=-3355/0, 4-5=-2130/94, 5-6=-47/1309, 6-7=-42/2286, 7-8=-42/2286,

8-9=-43/1309, 9-10=-2129/91, 10-11=-3358/0, 11-12=-3197/27

2-17=-93/2623, 16-17=-93/2623, 14-16=0/2236, 13-14=0/2504, 12-13=0/2504 BOT CHORD 4-16=0/1812, 5-18=-4008/204, 9-18=-3993/194, 10-14=0/1815, 3-17=-748/130, WFBS

3-16=-602/305, 11-13=-732/133, 11-14=-645/331, 7-18=-290/79, 8-18=-490/717,

6-18=-481/721

### 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, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs
- non-concurrent with other live loads. Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

11) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-18, 9-18

Clay(Rolldmichogelize load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16

October 1,2021





Job	Truss	Truss Type	Qty	Ply	DON GILMORE	
DO210933	TG1	ATTIC	1		148	8157187
	10.	73.1.10		2	Job Reference (optional)	

Truss Builders, Inc.,

Morrisville, NC - 27560,

8.430 s Aug 16 2021 MITek Industries, Inc. Thu Sep 30 10:15:04 2021 Page 2 ID:iC31OG5R74jf1UmnMaZf7HyYoRf-Nak1g1x\_YeMnaNLVR\_AAQyP5SwVbMaeImXITAjyYTc5

### NOTES-

13) Refer to girder(s) for truss to truss connections.

14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 2.

15) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

17) Attic room checked for L/360 deflection.



DON GILMORE Joh Truss Truss Type Qty 148157188 DO210933 TGE1 GABLE Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:15:07 2021 Page 1
ID:iC310G5R74jftUmnMaZf7HyYoRf-n9PAJ2\_trZkLRr4476kt1b1dh7XiZofBSVX7n2yYTc2 Truss Builders, Inc., Morrisville, NC - 27560, 10-7-12 20-3-3 0-6-2 2-9-8-12 11-1-14 1-10-8 0-11-0 0-11-0 5x6 MT20HS = Scale = 1:68.4 5x6 MT20HS = 5x6 =5x6 = 4x8 // 9 4x8 N 4x6 // 4x6 💉 4x8 =10.00 12 4x6 🥢 4x6 💉 12 1-8-0 15 14 17 3x6 || 16 13 3x6 II 5x8 = 7x10 =10x10 = 3x6 || 10x10 = 3x6 || 5x8 = 3x6 [] 3x6 || 26-1-0 3-11-4 [2:0-3-3,0-2-8], [5:Edge,0-2-4], [6:0-4-4,0-2-0], [8:0-4-4,0-2-0], [9:Edge,0-2-4], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-3-3,0-2-8], [14:0-3-8] Plate Offsets (X,Y)--,0-7-0], [16:0-3-8,0-7-0], [26:0-0-0,0-0-0], [27:0-0-0,0-0-0], [28:0-0-0,0-0-0], [30:0-0-0,0-0-0], [32:0-0-0,0-0-0] LOADING (psf) SPACING-1-7-3 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 244/190 Plate Grip DOL 1.15 TC 0.79 Vert(LL) -0.32 14-16 >999 240 MT20 15.0 Snow (Pf) BC 0.83 Vert(CT) -0.45 14-16 >801 180 MT20HS 187/143 1,15 Lumber DOL **TCDL** 10.0 YES WB 0.99 0.02 12 n/a Rep Stress Incr Horz(CT) n/a **BCLL** 0.0 Weight: 310 lb FT = 6% Code IBC2015/TPI2014 Matrix-MR Attic -0.19 14-16 923 360 BCDL 10.0 **BRACING-**LUMBER-TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except TOP CHORD 2x4 SP No.2 \*Except\* 1-6,8-12: 2x6 SP No.1D 2-0-0 oc purlins (6-0-0 max.): 6-8 2x10 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD 2x4 SP No.3 \*Except\* JOINTS 1 Brace at Jt(s): 18 **WEBS** 5-9: 2x4 SP No.2 **OTHERS** 2x4 SP No.3 REACTIONS. (size) 12=Mechanical, 2=0-4-0

Max Horz 2=160(LC 9) Max Uplift 2=-5(LC 10)

Max Grav 12=1238(LC 3), 2=1306(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1685/1, 3-4=-1789/0, 4-5=-1135/50, 5-6=-25/698, 6-7=-22/1219, 7-8=-22/1219,

8-9=-23/697, 9-10=-1135/49, 10-11=-1791/0, 11-12=-1705/15

2-17=-50/1399, 16-17=-50/1399, 14-16=0/1192, 13-14=0/1337, 12-13=0/1337 BOT CHORD 4-16=0/967, 5-18=-2136/109, 9-18=-2129/103, 10-14=0/968, 3-17=-401/69, **WEBS** 

3-16=-322/163, 11-13=-392/71, 11-14=-346/176, 8-18=-261/382, 6-18=-257/384

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 12) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-18, 9-18
- 13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16

14) Refer to girder(s) for truss to truss connections.

Os)tFroudermodeanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 2

October 1,2021



dimmanana.

Job	Truss	Truss Type	Qty	Ply	DON GILMORE
					I48157188
DO210933	TGE1	GABLE	1	1	Job Reference (optional)
					Job Releience (obtional)

Truss Builders, Inc.,

Morrisville, NC - 27560,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:15:07 2021 Page 2 ID:iC31OG5R74jf1UmnMaZf7HyYoRf-n9PAJ2\_trZkLRr4476kt1b1dh7XiZofBSVX7n2yYTc2

### NOTES-

- 16) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Attic room checked for L/360 deflection.



DON GIL MORE Job Truss Truss Type Qty Ply 148157189 DO210933 V1 Valley Job Reference (optional) 8.430 s Aug 16 2021 MTek Industries, Inc. Thu Sep 30 10:15:08 2021 Page 1
ID:iC31OG5R74jf1UmnMaZf7HyYoRf-GMzYWO\_VctsC3?fGqqF6aoa\_uX1QITNLh9GhJVyYTc1 Truss Builders, Inc., Morrisville, NC - 27560, 2-2-11 2-2-11 2-2-11 3x6 = Scale = 1:11.1 9,00 12 3 0-0-4 .0-<u>0</u>-3x6 // 3x6 🛇 Plate Offsets (X,Y)-- [2:0-3-0,Edge] LOADING (psf) SPACING-2-0-0 DEFL. PLATES GRIP CSI. (loc) I/defl L/d TCLL (roof) Plate Grip DOL 1.15 TC 0.05 Vert(LL) 999 MT20 244/190 n/a n/a Snow (Pf) 15.0 BC Vert(CT) 999 Lumber DQL 1.15 0.15 n/a n/a TCDL 10.0 WB Rep Stress Incr Horz(CT) YES 0.00 0.00 3 n/a n/a **BCLL** 0.0 Code IBC2015/TPI2014 Weight: 13 lb FT = 6% Matrix-P BCDL 10.0 LUMBER-**BRACING-**TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 4-5-5 oc purlins.

BOT CHORD 2x4 SP No.2

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-4-11, 3=4-4-11

Max Horz 1=-26(LC 6)

Max Uplift 1=-2(LC 10), 3=-2(LC 11)

Max Grav 1=143(LC 2), 3=143(LC 2)

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

### NOTES-

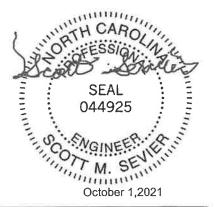
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 2 lb uplift at joint
- 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-7473 rev. 5/19/2020 BEFORE USE. WARNINGS - VAID ASSESS PARAMETERS AND RESOLUTION THIS AND INCLUDED MITER REPRESENCE PAGE MINERA TO BE ONE USE.

Design valid for use only with MITERS connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusse systems, see ANSITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job DON GILMORE Truss Truss Type Qty 148157190 DO210933 V2 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 10:15:09 2021 Page 1 Morrisville, NC - 27560. Truss Builders, Inc., ID:iC31OG5R74jf1UmnMaZf7HyYoRf-kYXwkk?7NA\_3g8ETEXmL7064cxNX1wwUvp0ErxyYTc0 4-5-5 Scale = 1:22.5 4x6 =9.00 12 400 40.4 3x6 / 3x6 💉 2x4 |! 8-10-5 LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl L/d TCLL (roof) 20.0 TC 244/190 Plate Grip DOL 1.15 0.31 Vert(LL) 999 MT20 n/a n/a Snow (Pf) 15.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) n/a 999 n/a TÇDL 10.0 Rep Stress Incr YES WB 0.05 3 Horz(CT) 0.00 n/a n/a 0.0 **BCLL** Code IBC2015/TPI2014 Weight: 32 lb FT = 6% Matrix-F BCDL 10.0 BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 **OTHERS** 

REACTIONS.

(size) 1=8-10-0, 3=8-10-0, 4=8-10-0

Max Horz 1=-58(LC 6)

Max Uplift 1=-20(LC 10), 3=-27(LC 11)

Max Grav 1=179(LC 2), 3=179(LC 2), 4=284(LC 2)

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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33 ) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15
- Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 27 lb uplift at ioint 3.
- 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



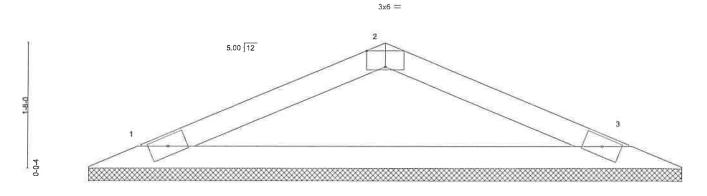
🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 (ev. 5/19/2020 BEFORE USE Design valid for use only with MTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designs. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for slability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see AISTPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DON GILMORE	
DO210933	V3	Velley	4			148157191
DO210933	V3	Valley	1	'	Job Reference (optional)	
Truss Builders, Inc.,	Morrisville, NC - 27560				16 2021 MiTek Industries, Inc. Thu Sep 30 10:1 aZf7HyYoRf-Ck5lx40l8U6wllofoEHafDfGBKdUn	
F		4-0-0			8-0-0	
		4-0-0	347		4-0-0	

Scale = 1:14.6

0-0,4



	0-0 <sub>1</sub> 10 0-0-10				8-0-0 7-11-6							
Plate Offsets (	X,Y)- [2:0-3-	-0,Edge]										
LOADING (ps TCLL (roof) Snow (Pf) TCDL	20.0 15.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.19 0.56 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 ·	Code IBC2015/TF		Matri		11012(01)	0.00	Ü	1,,,,	1110	Weight: 22 lb	FT = 6%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2

(size) 1=7-10-13, 3=7-10-13

3x6 =

Max Horz 1=-18(LC 17)

Max Uplift 1=-8(LC 12), 3=-8(LC 13)

Max Grav 1=260(LC 2), 3=260(LC 2)

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

TOP CHORD 1-2=-282/60, 2-3=-282/60

### NOTES-

1) Unbalanced roof live loads have been considered for this design,

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 8 lb uplift at joint
- 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Will M.

3x6 ≥

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

October 1,2021





Job	Truss	Truss Type	Qty	Ply	DON GILMORE	
DO210933	V4	GABLE	1		1	148157192
00210933	V +	GABLE			Job Reference (optional)	
Truss Builders, Inc.,	Morrisville, NC - 27560,			8.430 s Au	ig 16 2021 MiTek Industries, Inc. T	hu Sep 30 10:15:11 2021 Page 1
	8-0-0		ID:iC310G5R74j	f1UmnMaZf	f7HyYoRf-gxfg8Q1NuoEnwSNrMyo	ppCRCSEk4qVqEnN7VLwpyYTc_
1	8-0-0				16-0-0 8-0-0	
						0 1 1057
						Scale = 1:25.7
			4x6 =			
Ť			3			
	5.00 12					
	5.00   12	9		10		
	2x4				2x4	
q	2				4	
340					T	
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1						
14			***************************************	*********		
0 8000000000000000000000000000000000000			***************************************	******		
3x6 =	8		7		6	3x6 ≿
	2x4	2	2x4		2x4	
£			16-0-0 16-0-0			-1
			10-0-0			

				-0-0					WI	
LOADING (ps TCLL (roof) Snow (Pf) TCDL	20.0 15.0 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.18 BC 0.11 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0,00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 * 10.0	Code IBC2015/TPI2014	Matrix-R						Weight: 54 lb	FT = 6%

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-0-0.

(lb) - Max Horz 1=-40(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=303(LC 2), 8=333(LC 29), 6=333(LC 30)

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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Cl=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) 5, 8, 6.
- 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

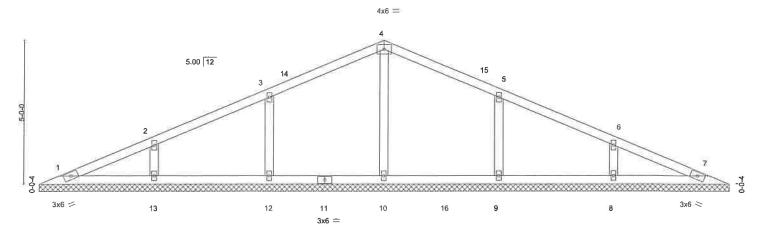


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIP-7475 (ev., 2/19/2020 BEFORE USE.)
Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for slability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see

ASTRIPHI Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Scale = 1:38.2



H	24-0-0 24-0-0											
LOADING (psf) TCLL (roof) Snow (Pf) TCDL	20.0 15.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.18 0.14 0.10	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 * 10.0	Code IBC2015/TF	12014	Matri	∢-R						Weight: 90 lb	FT = 6%

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 24-0-0.

(lb) - Max Horz 1=-61(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 12, 13, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=372(LC 3), 12=331(LC 29), 13=322(LC 2), 9=331(LC 30), 8=322(LC 2)

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

WEBS 3-12=-252/99, 5-9=-252/99

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 13, 9, 8.

### LOAD CASE(S)

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)

Vert: 1-4=-50, 4-7=-50, 1-7=-20

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 1-7=-20

3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-50, 4-7=-50, 1-11=-20, 11-16=-50, 7-16=-20

4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-42, 4-7=-43, 1-11=-20, 11-16=-50, 7-16=-20



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	DON GILMORE
DO210933	V5	GABLE	1	1	14815719
To the many that the standards	Vic.				Job Reference (optional)  8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 1 13:37:13 2021 Page 2
Truss Builders, Inc., Morrisville,	NC			non was wareness	6.430 5 Aug 16 2021 Willek Industries, Inc. 111 Oct 1 13:37:13 2021 Page 2

ID:iC31OG5R74jf1UmnMaZf7HyYoRf-tsMDWJlkW89LdSPwzFEXJF6JWwgT1Fwh7KexSSyXmSa

LOAD CASE(S)

5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-14=-42, 4-14=-55, 4-7=-27, 1-11=-20, 11-16=-50, 7-16=-20

6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-27, 4-15=-55, 7-15=-43, 1-11=-20, 11-16=-50, 7-16=-20

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-20, 1-7=-40

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=10, 4-7=8, 1-7=-12

Horz: 1-4=-22, 4-7=20

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=8, 4-7=10, 1-7=-12 Horz: 1-4=-20, 4-7=22

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4-7, 4-7=-9, 1-7=-20

Horz: 1-4=-13, 4-7=11

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=-9, 4-7=-7, 1-7=-20

Horz: 1-4=-11, 4-7=13

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf)

Vert: 1-4=18, 4-7=5, 1-7=-12

Horz: 1-4=-30 4-7=17

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=5, 4-7=18, 1-7=-12

Horz: 1-4--17, 4-7-30

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=9, 4-7=1, 1-7=-12

Horz: 1-4=-21, 4-7=13

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=1, 4-7=9, 1-7=-12

Horz: 1-4=-13, 4-7=21

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=2, 4-7=-12, 1-7=-20

Horz: 1-4=-22, 4-7=8

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=-12, 4-7=2, 1-7=-20

Horz: 1-4-8, 4-7=22

18) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-14=-50, 4-14=-67, 4-7=-29, 1-7=-20

19) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-29, 4-15=-67, 7-15=-50, 1-7=-20

20) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-20, 1-11=-20, 11-16=-60, 7-16=-20

21) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=-33, 4-7=-34, 1-11=-20, 11-16=-50, 7-16=-20

Horz: 1-4=-10, 4-7=8

22) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate

Increase=1.33

Uniform Loads (plf)

Vert: 1-4=-34, 4-7=-33, 1-11=-20, 11-16=-50, 7-16=-20

Horz: 1-4=-8, 4-7=10

23) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33,

Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-4=-26, 4-7=-36, 1-11=-20, 11-16=-50, 7-16=-20

Horz: 1-4=-16, 4-7=6

24) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33,

Plate Increase=1.33

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Job	Truss	Truss Type	Qty	Ply	DON GILMORE	
DO210933	V5	GABLE	1	1		148157193
					Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 1 13:37:13 2021 Page 3 ID:iC31OG5R74jf1UmnMaZf7HyYeRf-tsMDWJlkW89LdSPwzFEXJF6JWwgT1Fwh7KexSSyXmSa

### LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-4=36, 4-7=-26, 1-11=-20, 11-16=-50, 7-16=-20

Horz: 1-4=-6, 4-7=16

25) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf)

Vert: 1-4=-40, 4-7=-42, 1-11=-20, 11-16=-50, 7-16=-20

Horz: 1-4-10, 4-7-8

26) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf)

Vert: 1-4=-42, 4-7=-40, 1-11=-20, 11-16=-50, 7-16=-20

Horz: 1-4=-8, 4-7=10

27) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf)

Vert: 1-4=-34, 4-7=-44, 1-11=-20, 11-16=-50, 7-16=-20

Horz: 1-4=-16, 4-7=6

28) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf)

Vert: 1-4-44, 4-7-34, 1-11-20, 11-16-50, 7-16-20

Horz: 1-4=-6, 4-7=16

29) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-20, 1-7=-20

30) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-60, 1-7=-20

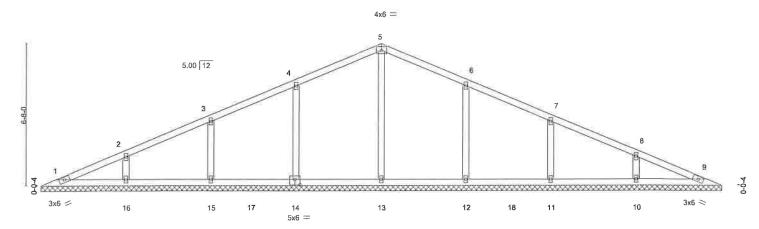
31) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-50, 4-7=-20, 1-11=-20, 11-16=-50, 7-16=-20

32) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-50, 1-11=-20, 11-16=-50, 7-16=-20

Scale = 1:51.6



					33	2-0-0						
Plate Offsets (X,Y)-	[14:0-3-0	0,0-3-0]										
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 15.0 TCDL 10.0 BCLL 0.0	0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.18 0.17 0.18	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 9	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0		Code IBC2015/TP	12014	Matri	c-R						Weight: 130 lb	FT = 6%

32-0-0

LUMBER-TOP CHORD

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

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

REACTIONS. All bearings 32-0-0.

(lb) - Max Horz 1=-83(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 15, 16, 12, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 13=392(LC 28), 14=406(LC 5), 15=319(LC 2),

16=323(LC 29), 12=405(LC 6), 11=320(LC 2), 10=323(LC 30)

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

WEBS 4-14=-257/97, 6-12=-256/97

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 15, 16, 12, 11, 10.

### LOAD CASE(S)

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-50, 5-9=-50, 1-9=-20

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60, 5-9=-60, 1-9=-20

3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-50, 5-9=-50, 1-17=-20, 17-18=-50, 9-18=-20

4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15



October 1,2021

Continued on page 2

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		470				disser.		
Job		Truss	Truss Type		Qty	Ply	DON GILMORE	I48157 <sup>-</sup>
DQ2	10933	V6	GABLE	ľ	1	1	Job Reference (options	al)
Tru	ss Builders, Inc., Morrisville	, NC	<u> </u>	ID:iC310	G5R74if	1UmnMaZ	8.430 s Aug 16 2021 MiT	ek Industries, Inc. Fri Oct 1 13:38:02 2021 Page 2 KOO_eLL2c0oaeh8gOV0OtuOS01f7yXmRp
5) 6)	Dead + 0.75 Snow (Uniform Loads (plf) Vert: 1-4=-43 Dead + 0.75 Snow (Uniform Loads (plf) Vert: 1-5=-27	, 4-5=-59, 5-9=-27, 1-17=-20, nbal. Right) + 0.75 Uninhab. A , 5-6=-59, 6-9=-42, 1-17=-20,	tic Storage: Lumber Increase=1 17-18=-50, 9-18=-20 attic Storage: Lumber Increase=	=1.15, Plate Increase				
Í	Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-5=10, Horz: 1-5=-22	5-9=8, 1-9=-12 , 5-9=20	per Increase=1.33, Plate Increa					
	Uniform Loads (plf)	-9=10, 1-9=-12						
10)	Uniform Loads (plf)	, 5-9=-9, 1-9=-20	nber Increase=1.33, Plate Incre	ease=1.33				
11)	Uniform Loads (plf)	5-9=-7, 1-9=-20	ımber Increase=1.33, Plate Inc	rease=1.33				
12)	Uniform Loads (plf)	, 5-9=5, 1-9=-12	lel: Lumber Increase=1.33, Pla	te Increase=1.33				
13)	Dead + 0.6 MWFRS Uniform Loads (plf)	Wind (Pos. Internal) 2nd Para 5-9=18, 1-9=-12	illel: Lumber Increase=1.33, Pla	ate Increase=1.33				
14)	Dead + 0.6 MWFRS Uniform Loads (plf) Vert: 1-5=9,	Wind (Pos. Internal) 3rd Para 5-9=1, 1-9=-12	llel: Lumber Increase=1.33, Pla	ate Increase=1.33				
15)	Uniform Loads (plf)		lel: Lumber Increase=1.33, Pla	te Increase=1.33				
16)	Uniform Loads (plf)	*	llel: Lumber Increase=1.33, Pla	ate Increase=1.33				
17)	Horz: 1-5=-2 Dead + 0.6 MWFRS V Uniform Loads (plf)	2, 5-9=8	allel: Lumber Increase=1.33, Pla	ate Increase=1.33				
18)	Horz: 1-5=-8 Dead + Snow (Unbal. Uniform Loads (plf)	, 5-9=22 Left): Lumber Increase=1.15	, Plate Increase=1.15					
19)	Dead + Snow (Unbal. Uniform Loads (plf)	0, 4-5=-72, 5-9=-29, 1-9=-20 Right): Lumber Increase=1.1 0, 5-6=-72, 6-9=-50, 1-9=-20	5, Plate Increase=1.15					
20)	Uniform Loads (plf)	Attic Storage: Lumber Increa 0, 5-9=-20, 1-17=-20, 17-18=-	ase=1.25, Plate Increase=1.25 60, 9-18=-20					
21)	Increase=1.33 Uniform Loads (plf)	3, 5-9=-34, 1-17=-20, 17-18=-	rage + 0.75(0.6 MWFRS Wind (	(Neg. Int) Left): Lum	ber Incre	ease=1.33	3, Plate	
22)	Dead + 0.75 Snow (b Increase=1.33 Uniform Loads (plf) Vert: 1-5=-34	al.) + 0.75 Uninhab. Attic Stor	rage + 0.75(0.6 MWFRS Wind ( 50, 9-18=-20	(Neg. Int) Right): Lui	mber Inc	rease=1.	33, Plate	
23)	Plate Increase=1.33 Uniform Loads (plf)		rage + 0.75(0.6 MWFRS Wind (	(Neg. Int) 1st Paralle	el): Lumb	er Increa	se=1.33,	

Horz: 1-5=-16, 5-9=6

Continued on page 3

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148157194

Job	Truss	Truss Type	Qty	Ply	DON GILMORE
DO210933	V6	GABLE	1		1481571
20210933	VO	GABLE			Job Reference (optional)
Truss Builders, Inc., Morrisville, I	NC		ID:jC310G5R74	ijf1UmnMa	8.430 s Aug 16.2021 MITek Industries, Inc. Fri Oct 1 13:38:02 2021 Page 3 aZI7HyYoRFxHpko3LT_CKOO_eLL2c0oaeh8gOV0OtuOS01f7yXmRp
LOAD CASE(S)					
24) Dead + 0.75 Snow (bal	l.) + 0.75 Uninhab. Attic s	Storage + 0.75(0.6 MWFRS Wind (N	leg. Int) 2nd Parallel): Lu	ımber inc	crease=1.33, Plate Increase=1.33
Uniform Loads (plf)					
Vert: 1-5=-36,	5-9=-26, 1-17=-20, 17-1	8=-50, 9-18=-20			
Horz: 1-5=-6, 5	5-9=16				
25) Dead + 0.75 Roof Live	(bal.) + 0.75 Uninhab. A	ttic Storage + 0.75(0.6 MWFRS Wind	d (Neg. Int) Left): Lumbe	er Increas	se=1.33, Plate Increase=1.33
Uniform Loads (plf)					
	5-9=-42, 1-17=-20, 17-1	8=-50, 9-18=-20			
Horz: 1-5=-10,					
	(bal.) + 0.75 Uninhab. A	ttic Storage + 0.75(0.6 MWFRS Wind	d (Neg. Int) Right): Luml	ber Increa	ase=1.33, Plate Increase=1.33
Uniform Loads (plf)					
	5-9=-40, 1-17=-20, 17-1	8=-50, 9-18=-20			
Horz: 1-5=-8, 5					
	(bal.) + 0.75 Uninhab. A	ttic Storage + 0.75(0.6 MWFRS Wind	d (Neg. Int) 1st Parallel)	: Lumber	Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)	-	. 50 0 40 00			
	5-9=-44, 1-17=-20, 17-1	8=-50, 9-18=-20			
Horz: 1-5=-16,		Min Channel I O ZE/O C BAIMEDO IA/in	d (Alas 154) 25 d Davellal	). I	
,	(bai.) + 0.75 Uninnab. A	tile Storage + 0.75(0.6 MWFRS Wint	a (Neg. mi) zna Paranei	): Lumber	r Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)	5-9=-34, 1-17=-20, 17-1	8- 50 0 19- 30			
Horz: 1-5=-6, 5		330, 9-1020			
		crease=1.15, Plate Increase=1.15			
Uniform Loads (plf)	inbalanced). Edinber me	rease-1.15, Flate Increase-1.15			
	5-9=-20, 1-9=-20				
		crease=1.15, Plate Increase=1.15			
Uniform Loads (plf)	andaranouji Lumbor mi				
	5-9=-60, 1-9=-20				
		Uninhab. Attic Storage: Lumber Incr	rease=1.15, Plate Increa	se=1.15	
Uniform Loads (plf)	,	•			
Vert: 1-5=-50,	5-9=-20, 1-17=-20, 17-18	8=-50, 9-18=-20			
32) 4th Dead + 0.75 Roof L	ive (unbalanced) + 0.75	Uninhab. Atlic Storage: Lumber Incr	ease=1.15, Plate Increa	se=1.15	

Uniform Loads (plf)

Vert: 1-5=-20, 5-9=-50, 1-17=-20, 17-18=-50, 9-18=-20



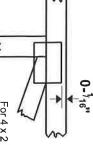
148157194

### Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y and fully embed teeth. Apply plates to both sides of truss Dimensions are in ft-in-sixteenths. offsets are indicated.



For 4 x 2 orientation, locate plates 0-  $^{\eta_{16}"}$  from outside edge of truss

required direction of slots in connector plates. This symbol indicates the

\* Plate location details available in MiTek 20/20 software or upon request

### PLATE SIZE



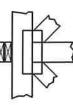
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

## LATERAL BRACING LOCATION



if indicated. Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing

### **BEARING**



number where bearings occur.

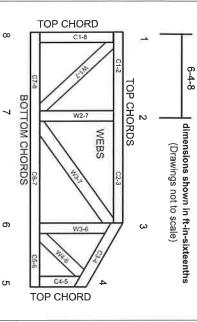
Min size shown is for crushing only. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

ANSI/TPI1: National Design Specification for Metal Building Component Safety Information Plate Connected Wood Truss Construction Design Standard for Bracing.

Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling,

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

section 6.3 These truss designs rely on lumber values established by others Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer, For wide truss spacing, individual lateral braces themselves bracing should be considered. may require bracing, or alternative Tor I
- ω Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.