

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: DO210811
WALNUT GROVE

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: I47426010 thru I47426063

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

North Carolina COA: C-0844



August 13, 2021

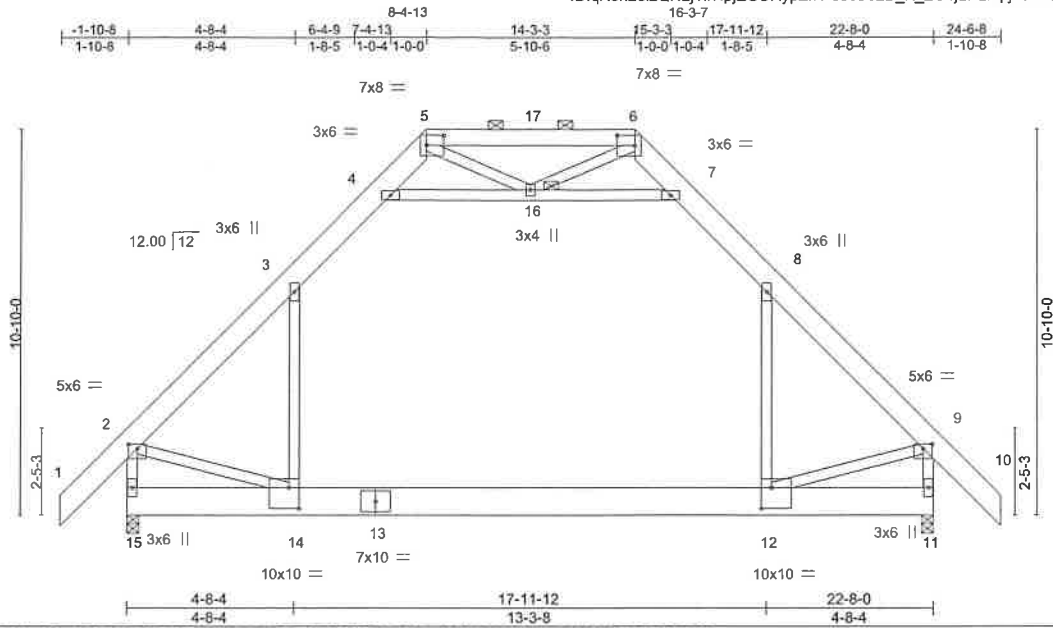
Sevier, Scott

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.

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426010
DO210811	AT1	Attic	3	1	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:12:55 2021 Page 1
ID:qX5h23lzQN2jTlrHqjZGURypZh1-e80bbLD_K_ZU4jLRzmpjo0TZ9gXB2916eAnfPvyof_c



Scale = 1:61.7

Plate Offsets (X,Y)- [2:0-3-0,0-1-8], [5:0-6-0,0-3-8], [6:0-6-0,0-3-8], [9:0-3-0,0-1-8], [12:0-3-8,0-7-0], [14:0-3-8,0-7-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.24 12-14	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.31 12-14	>878	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.01 11	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-MR	Attic	-0.18 12-14	903	360		
BCDL 10.0								Weight: 251 lb	FT = 6%

LUMBER-
TOP CHORD 2x8 SP No.2 *Except*
5-6: 2x6 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 5-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 15=0-4-0, 11=0-4-0
Max Horz 15=253(LC 8)
Max Grav 15=1350(LC 3), 11=1350(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1349/22, 3-4=861/82, 4-5=-344/141, 5-6=-237/255, 6-7=-344/141, 7-8=-861/82,
8-9=1349/22, 2-15=-1474/0, 9-11=-1474/0
BOT CHORD 14-15=-224/286, 12-14=0/872
WEBS 3-14=-27/674, 4-16=-1082/128, 7-16=-1082/128, 8-12=-27/674, 2-14=-13/848,
9-12=-17/851

- NOTES-**
- Unbalanced roof live loads have not been considered for this design.
 - 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
 - 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 7-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
 - 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.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPH Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



816 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	I47426011
DO210811	AT1A	Attic	4	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:03 2021 Page 1
ID:qx5h23lzQN2jTirHpjZGURypZh1-PhVcG4K?RRZM1xyzR1yb6ioVHuG1wm_HTPJ4hRyof_U

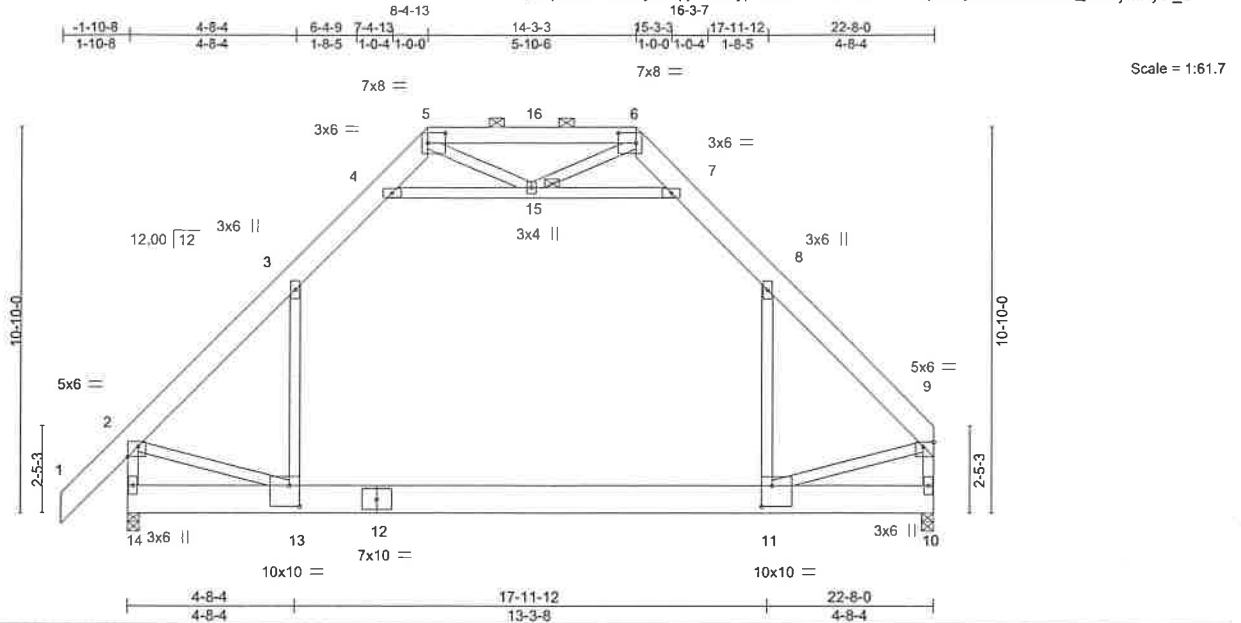


Plate Offsets (X,Y)-	[2:0-3-8,Edge], [5:0-6-0,0-3-8], [6:0-6-0,0-3-8], [9:Edge,0-1-8], [11:0-3-8,0-7-0], [13:0-3-8,0-7-0]
----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.60	Vert(LL)	-0.24 11-13	>999	240	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.83	Vert(CT)	-0.31 11-13	>876	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.34	Horz(CT)	0.01 10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Attic	-0.18 11-13	903	360		
BCDL 10.0	Code IBC2015/TPI2014						Weight: 243 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
5-6: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2x10 SP No.2	JOINTS 1 Brace at Jt(s): 15
WEBS 2x4 SP No.3	

REACTIONS. (size) 14=0-4-0, 10=0-4-0
 Max Horz 14=239(LC 7)
 Max Grav 14=1355(LC 3), 10=1244(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1360/21, 3-4=-866/81, 4-5=-342/144, 5-6=-234/259, 6-7=-344/143, 7-8=-865/81, 8-9=-1353/16, 2-14=-1484/0, 9-10=-1366/0
 BOT CHORD 13-14=233/260, 11-13=0/859
 WEBS 3-13=-24/676, 4-15=-1088/128, 7-15=-1088/128, 8-11=-35/671, 2-13=-12/857, 9-11=-30/819

- 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) 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-15, 7-15
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 11-13
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Attic room checked for L/360 deflection.



August 13, 2021

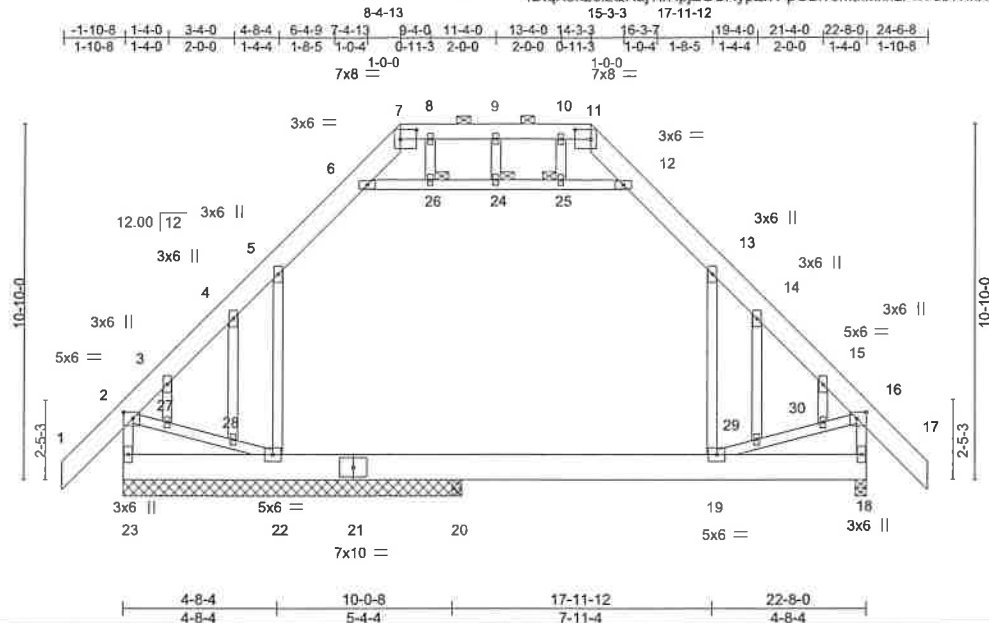
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MITTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426012
DO210811	AT1GE	Attic Structural Gable	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MITEK Industries, Inc. Thu Aug 12 08:13:06 2021 Page 1
ID:qX5h23lzQN2jTlRHpjZGURypZh1-pGBlv6MtkMxxuPhY69WlkkQVA6N577ZkANyklmyof_R



Scale = 1:66.9

Plate Offsets (X,Y)- [2:0-3-8,0-2-4], [7:0-6-0,0-3-8], [11:0-6-0,0-3-8], [16:0-3-8,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.05 19-20	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.07 19-20	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.00 18	n/a	n/a		
BCLL 0.0	Code IBC2015/TPI2014		Matrix-MR	Attic	-0.05 19-20	3740	360		
BCDL 10.0								Weight: 262 lb	FT = 6%

LUMBER-

TOP CHORD 2x8 SP No.2 *Except*
7-11: 2x6 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 7-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 22-23.
JOINTS 1 Brace at Jt(s): 24, 25, 26

REACTIONS.

All bearings 10-4-0 except (jt=length) 18=0-4-0, 20=0-3-8.
(lb) - Max Horz 23=-253(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 23, 18 except 22=-262(LC 7)
Max Grav All reactions 250 lb or less at joint(s) except 23=999(LC 24), 22=285(LC 8), 18=1008(LC 3), 20=915(LC 17)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-824/112, 3-4=-830/135, 4-5=-708/138, 5-6=-632/113, 6-7=-425/73, 7-8=-321/106, 8-9=-321/106, 9-10=-321/106, 10-11=-321/106, 11-12=-407/108, 12-13=-611/101, 13-14=-661/25, 14-15=-758/0, 15-16=-773/0, 2-23=-934/86, 16-18=-904/17
BOT CHORD 20-22=0/472, 19-20=0/472
WEBS 5-22=-293/183, 6-26=-402/177, 24-26=-401/176, 24-25=-401/176, 12-25=-401/176, 2-27=-78/526, 27-28=-75/499, 22-28=-79/526, 19-29=-2/451, 29-30=0/428, 16-30=0/451

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=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
- 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.
- 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 12-13, 6-26, 24-26, 24-25, 12-25
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 20-22, 19-20
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 18 except (jt=lb) 22=262.
- 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.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mil-7473 rev. 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 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/TPI1 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
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426013
DO210811	CAT1A	Attic	2	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:09 2021 Page 1
 ID:qX5h23lzQN2jTlrHpjZGURypZh1-DrsuX8Om1HKVlsQ7ol37Mz2xmJJKUXAsLAOu5yof_O
 16-3-7

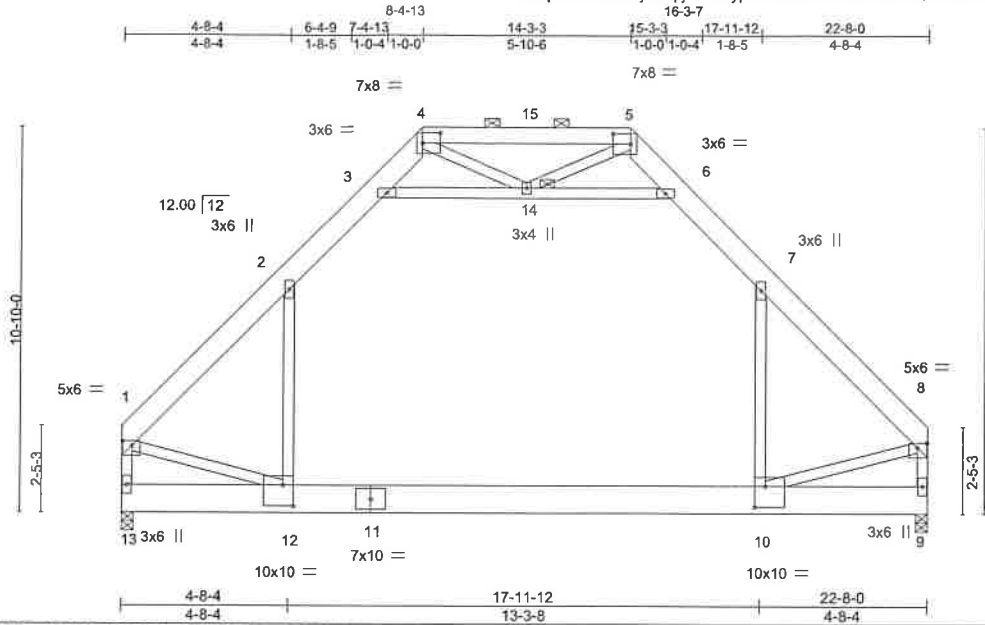


Plate Offsets (X,Y) - [1:0-3-4,0-1-8], [4:0-6-0,0-3-8], [5:0-6-0,0-3-8], [8:0-3-4,0-1-8], [10:0-3-8,0-7-0], [12:0-3-8,0-7-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.60	Vert(LL)	-0.24 10-12	>999	240	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.83	Vert(CT)	-0.31 10-12	>873	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.34	Horz(CT)	0.01 9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Attic	-0.18 10-12	903	360		
BCDL 10.0	Code IBC2015/TPI2014						Weight: 234 lb	FT = 6%

LUMBER-
 TOP CHORD 2x8 SP No.2 *Except*
 4-5: 2x6 SP No.2
 BOT CHORD 2x10 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 14

REACTIONS. (size) 13=0-4-0, 9=0-4-0
 Max Horz 13=214(LC 7)
 Max Grav 13=1249(LC 3), 9=1249(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1364/16, 2-3=-871/80, 3-4=-342/146, 4-5=-224/262, 5-6=-342/146, 6-7=-871/80,
 7-8=-1363/16, 1-13=-1377/0, 8-9=-1377/0
 BOT CHORD 12-13=-215/272, 10-12=0/866
 WEBS 2-12=-32/674, 3-14=-1094/128, 6-14=-1094/128, 7-10=-32/674, 1-12=-25/826,
 8-10=-29/828

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-14, 6-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 10-12
 - 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 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 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 ANSITPM1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

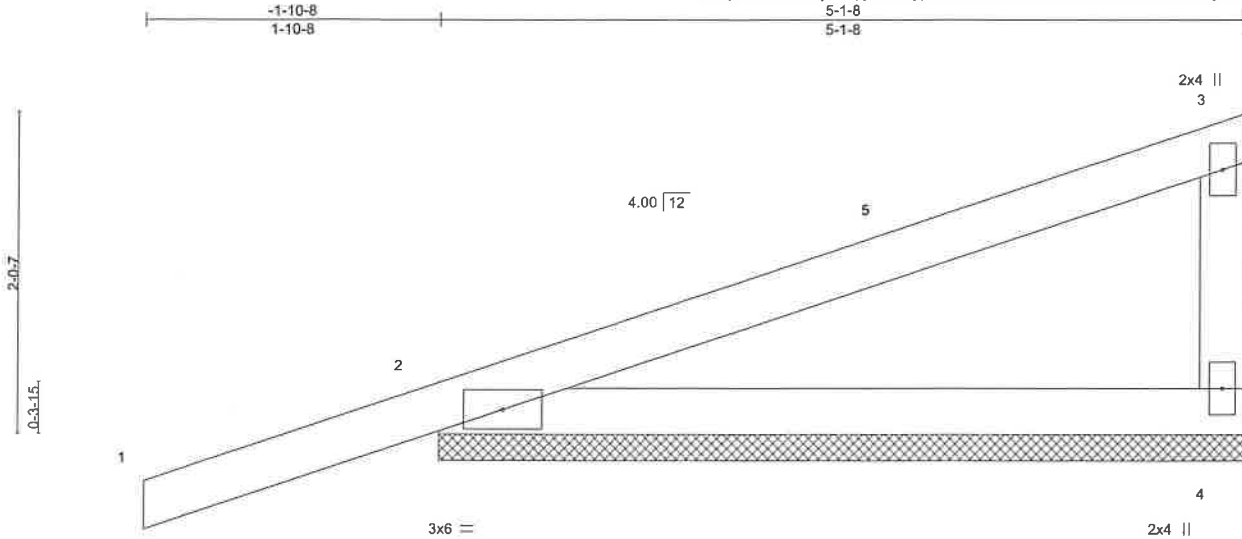
ENGINEERING BY
TRENCO
 A MITEK AFFILIATE

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426014
DO210811	CJ1	Jack-Open Supported Gable	1	1	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 Mitek Industries, Inc. Thu Aug 12 08:13:10 2021 Page 1
ID:qX5h23lzQN2jTlrHpjZGURypZh1-h1QGkUPOobSMN0?KL7aEvAbAFjnn301J4?wyRXyof_N



Scale = 1:13.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) 0.00 1 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) 0.01 1 n/r 120		
BCLL 0.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 21 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=5-1-8, 2=5-1-8
Max Horz 2=65(LC 9)
Max Uplift 4=-14(LC 12), 2=-76(LC 8)
Max Grav 4=178(LC 2), 2=333(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
- 2) 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.
- 3) TCCL: 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) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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 100 lb uplift at joint(s) 4, 2.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 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 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/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

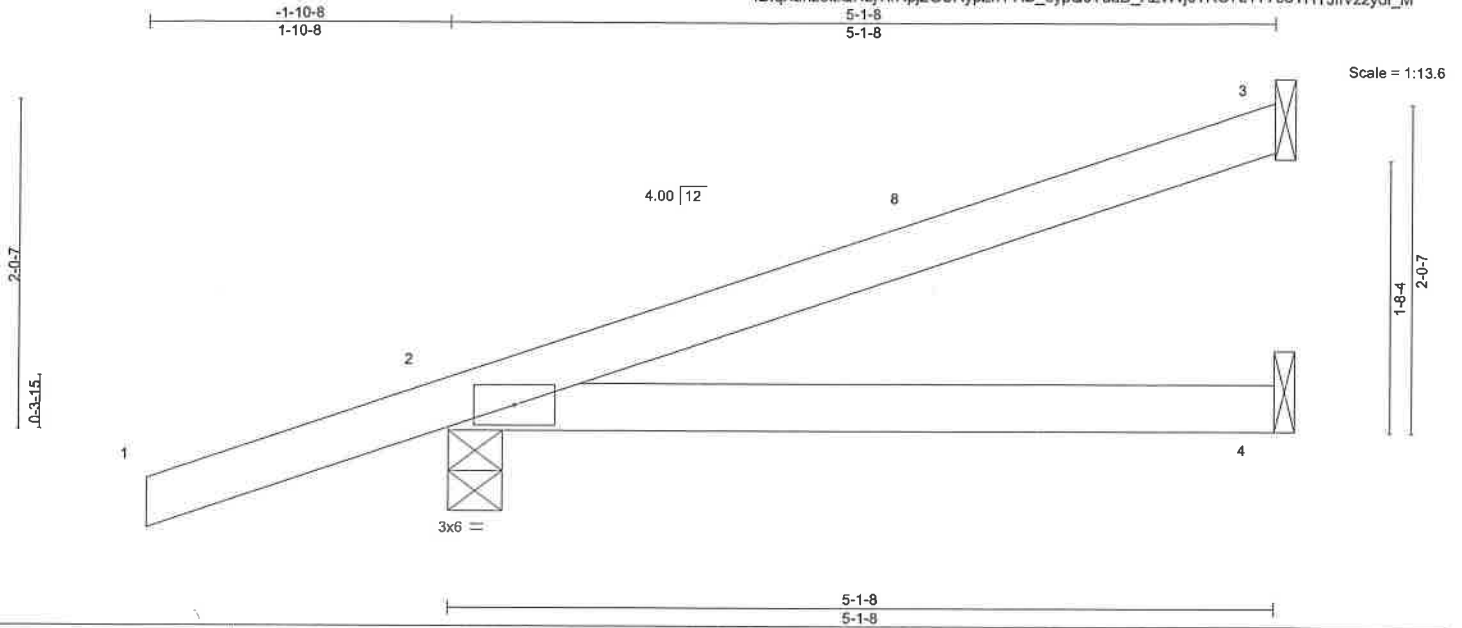


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426015
DO210811	CJ2	Jack-Open	6	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:11 2021 Page 1
 ID:qX5h23lzQN2jTrHpjZGURypZh1-AD_eypQ0YuaD_AZWvj6TRO7LY773oTHTJfVzzyof_M



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) -0.02 4-7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.06 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 19 lb	FT = 6%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
 Max Horz 2=76(LC 8)
 Max Uplift 3=-37(LC 12), 2=-71(LC 8)
 Max Grav 3=123(LC 2), 2=336(LC 2), 4=89(LC 7)

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

NOTES-

- 1) 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
- 2) 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
- 3) Unbalanced snow loads have been considered for this design.
- 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) 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



August 13, 2021

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 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/TPI1 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
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	
DO210811	CT1	Common	1	1		I47426016

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:12 2021 Page 1
 ID:qX5h23lzQN2jTlrHpiZGURypZh1-eQY099ReJci4ck8ITQdi_bgVbWSaXvKcYJP2VQyof_L



Scale = 1:52.5

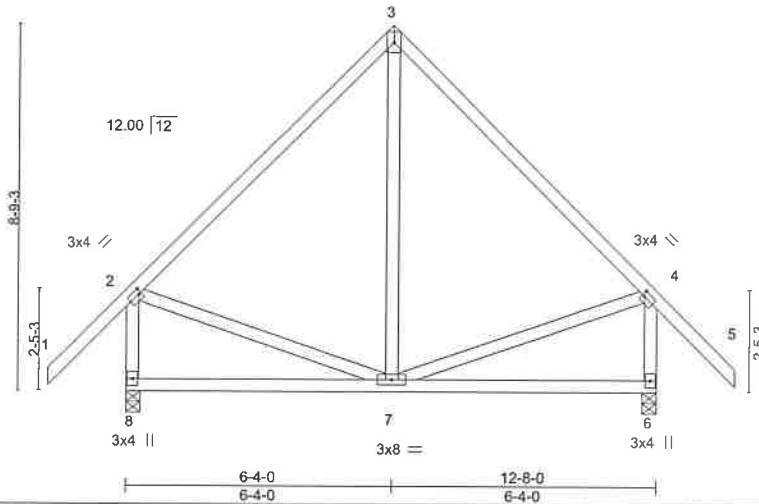


Plate Offsets (X,Y) - [2:0-0-12,0-1-8], [4:0-0-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	1-11-4	TC 0.43	Vert(LL)	-0.02	7-8	>999	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.29	Vert(CT)	-0.05	7-8	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 91 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 8=0-4-0, 6=0-4-0
 Max Horz 8=-215(LC 8)
 Max Uplift 8=-16(LC 10), 6=-16(LC 11)
 Max Grav 8=597(LC 2), 6=597(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=397/88, 3-4=397/88, 2-8=539/47, 4-6=539/47

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=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
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



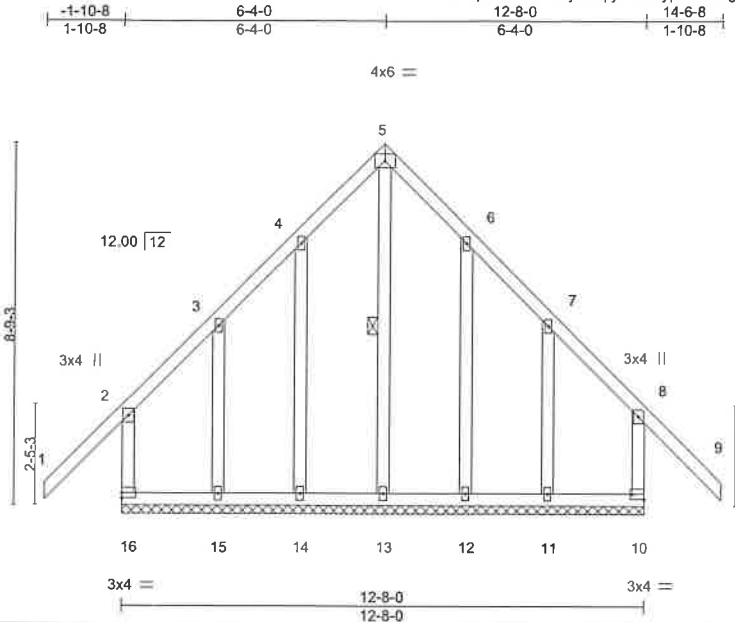
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPH 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
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	
DO210811	CT1GE	Common Supported Gable	1	1		147426017
Truss Builders, Inc., Morrisville, NC - 27560,					Job Reference (optional)	

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:14 2021 Page 1
 ID:qX5h23lzQN2jTlrHjZGURypZh1-aogmarSurpyorel5arfA30lrHK9n?pQv?du9alyof_J



Scale = 1:53.2

Plate Offsets (X,Y)- [10-Edge,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	1-11-4	TC 0.42	Vert(LL)	-0.03	9	n/r	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	-0.05	9	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Horz(CT)	-0.00	10	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 103 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-13

REACTIONS.

All bearings 12-8-0.
 (lb) - Max Horz 16=215(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 16=132(LC 6), 10=126(LC 7), 15=154(LC 7), 11=150(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 10, 14, 12 except 16=255(LC 23), 13=317(LC 25), 15=287(LC 22), 11=283(LC 23)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=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
- 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.
- 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
- 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.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 12 except (jt=lb) 16=132, 10=126, 15=154, 11=150.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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 ANSITPH 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
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	I47426018
DO210811	CT2	Common	1	1		

Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:15 2021 Page 1
ID:qX5h23lzQN2jTrHpjZGURypZh1-2?D9oBTWc74TtntH8YAPcEI?EkSEkGJ2EHdi6lyof_I



4x6 ||

Scale = 1:45.5

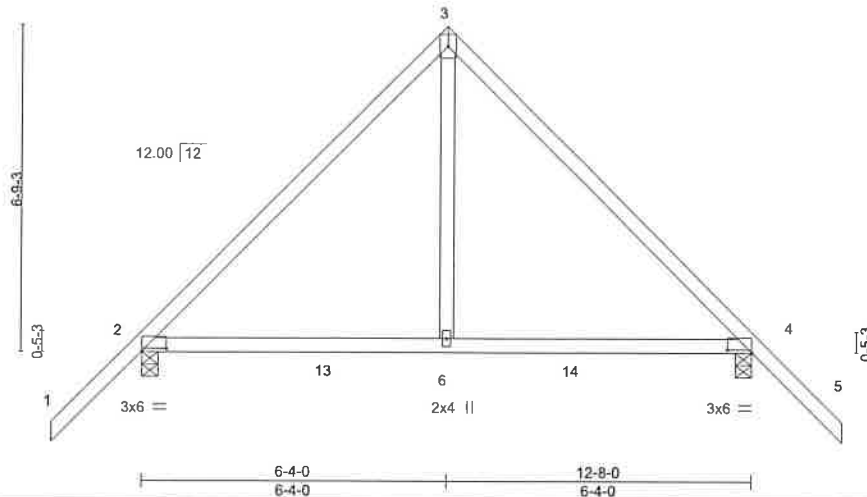


Plate Offsets (X,Y) - [2:0-6-0,0-0-10], [4:0-6-0,0-0-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) -0.04 6-12 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.08 6-12 >999 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 63 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-4-0, 4=0-4-0
Max Horz 2=-159(LC 8)
Max Uplift 2=-27(LC 10), 4=-27(LC 11)
Max Grav 2=632(LC 22), 4=632(LC 23)

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

TOP CHORD 2-3=581/62, 3-4=581/62
BOT CHORD 2-6=0/388, 4-6=0/388
WEBS 3-6=0/332

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

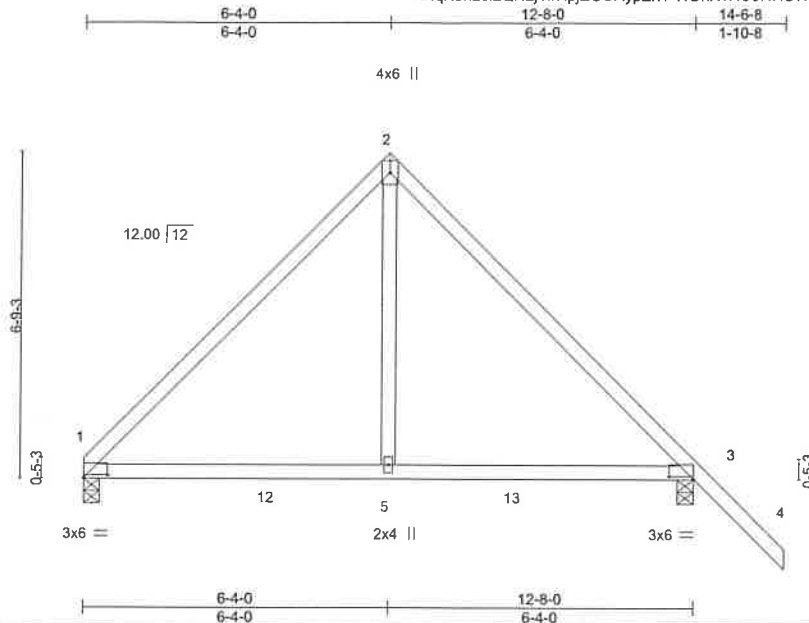


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	
DO210811	CT2A	Common	2	1		I47426019

Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:16 2021 Page 1
 ID:qX5h23lzQN2jTirHjZGURypZh1-WBnX?XU9NRCW5xSTiGhe8RqAX8o0TVCTxNGeByof_H



Scale = 1:45.5

Plate Offsets (X,Y) - [1:0-6-0,0-0-10], [3:0-6-0,0-0-10]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	0.06	5-8	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.10	5-8	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	1	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-MR							
BCDL 10.0										
								Weight: 59 lb	FT = 6%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=0-4-0, 3=0-4-0
 Max Horz 1=-147(LC 8)
 Max Uplift 3=-29(LC 11)
 Max Grav 1=521(LC 22), 3=637(LC 23)

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

TOP CHORD 1-2=-566/64, 2-3=-597/72
 BOT CHORD 1-5=0/400, 3-5=0/400
 WEBS 2-5=0/336

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M9-7473 rev. 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 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/TP1 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
 Eden, NC 27932

Job DO210811	Truss CT2GE	Truss Type Common Supported Gable	Qty 1	Ply 1	WALNUT GROVE	147426020
-----------------	----------------	--------------------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:17 2021 Page 1
ID:qX5h23lzQN2jTlHhPjZGURypZh1_NLvCIVn8KNI51gGzCthfNMcXBBCAOLhb6pAodyof_G



Scale = 1:45.5

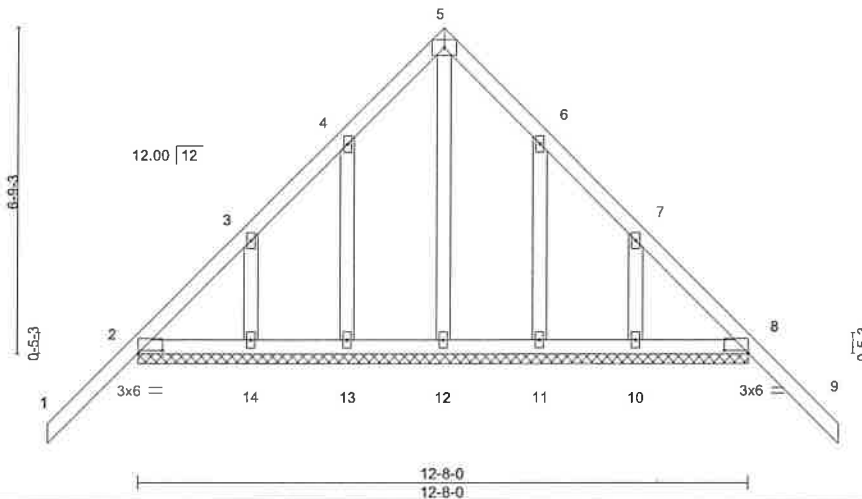


Plate Offsets (X,Y) - [2-0-6-0,0-0-10], [8-0-6-0,0-0-10]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.02	9	n/r	120	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.03	9	n/r	120		
TCDL 10.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	8	n/a	n/a		
BCLL 0.0	Code IBC2015/TPI2014		Matrix-R							
BCDL 10.0										
								Weight: 82 lb	FT = 6%	

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 12-8-0.
(lb) - Max Horz 2=159(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 12, 13, 14, 11, 10 except 2=269(LC 16), 8=269(LC 16)

FORCES.

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
- 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.
- 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 14, 11, 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 02/18/2020 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

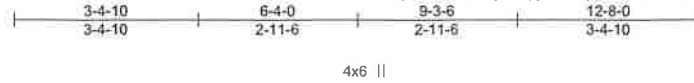


818 Soundside Road
Edenton, NC 27932

Job DO210811	Truss CT2GT	Truss Type Common Girder	Qty 1	Ply 2	WALNUT GROVE	147426021
-----------------	----------------	-----------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8,430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:18 2021 Page 1
ID:qX5h23lzQN2jTlrHpjZGURypZh1-SavHQDVPv2SEKFcsphk6DswZxxPlxPTVwFsnj4yof_F



Scale = 1:40.4

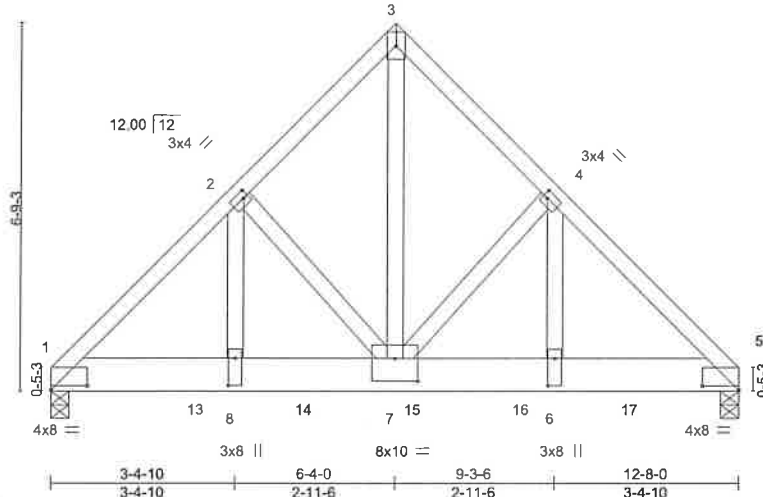


Plate Offsets (X,Y) - [1:0-8-0,0-0-15], [2:0-1-0,0-1-8], [4:0-1-0,0-1-8], [5:0-8-0,0-0-15], [6:0-6-0,0-1-8], [7:0-5-0,0-5-0], [8:0-6-0,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
Snow (PF) 15.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) -0.04 7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 1.00	Vert(CT) -0.08 7 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MR	Horz(CT) 0.02 5 n/a n/a		
BCDL 10.0	Code IBC2015/TP12014			Weight: 191 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-4-0, 5=0-4-0
Max Horz 1=123(LC 32)
Max Uplift 1=150(LC 10), 5=122(LC 10)
Max Grav 1=5096(LC 2), 5=4203(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=5232/189, 2-3=3608/186, 3-4=3606/187, 4-5=5183/190
BOT CHORD 1-8=1411/3673, 7-8=141/3673, 6-7=92/3633, 5-6=92/3633
WEBS 3-7=196/4809, 4-7=1654/145, 4-6=57/2195, 2-7=1714/147, 2-8=59/2268

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCCL=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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=150, 5=122.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1384 lb down and 51 lb up at 0-8-0, 1380 lb down and 54 lb up at 2-8-0, 1380 lb down and 54 lb up at 4-8-0, 1380 lb down and 54 lb up at 6-8-0, and 1380 lb down and 54 lb up at 8-8-0, and 1380 lb down and 54 lb up at 10-8-0 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



August 13, 2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 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
Edenon, NC 27932

Job DO210811	Truss CT2GT	Truss Type Common Girder	Qty 1	Ply 2	WALNUT GROVE Job Reference (optional)	I47426021
-----------------	----------------	-----------------------------	----------	----------	--	-----------

Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:18 2021 Page 2
ID:qX5h23lzQN2jTlrHpjZGURypZh1-SavHQDVPv2SEKFcshk6DswZxxPlxPTVwFsNj4yof_F

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-50, 3-5=-50, 1-5=-20

Concentrated Loads (lb)

Vert: 10=-1209(B) 13=-1205(B) 14=-1205(B) 15=-1205(B) 16=-1205(B) 17=-1205(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 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
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	
DO210811	CT3	Common	2	1		I47426022

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:19 2021 Page 1

ID:qX5h23lzQN2jTlrHpjZGURypZh1-xmTfdYW1gMa4yPB2NOFLm4Sd9Lm_g3ne9vbwFWyof_E

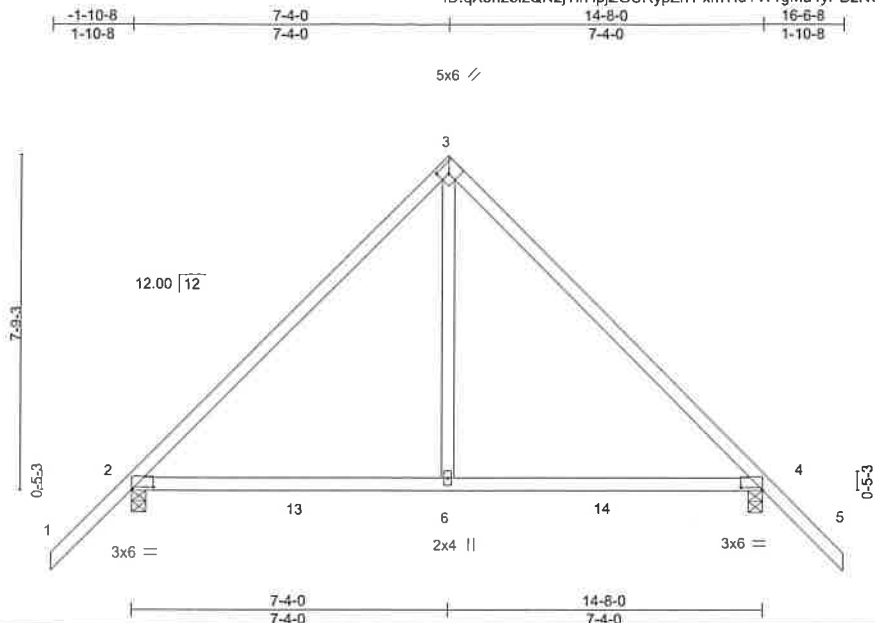


Plate Offsets (X,Y) - [2:0-6-0,0-0-10], [3:0-2-8,0-2-8], [4:0-6-0,0-0-10]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.08 6-12	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.15 6-12	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01 4	n/a	n/a		
BCLL 0.0	Code IBC2015/TPI2014		Matrix-MR						
BCDL 10.0								Weight: 72 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-4-0, 4=0-4-0
 Max Horz 2=-178(LC 8)
 Max Uplift 2=-26(LC 10), 4=-26(LC 11)
 Max Grav 2=733(LC 22), 4=733(LC 23)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=700/75, 3-4=700/75
 BOT CHORD 2-6=0/466, 4-6=0/466
 WEBS 3-6=0/420

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



August 13, 2021

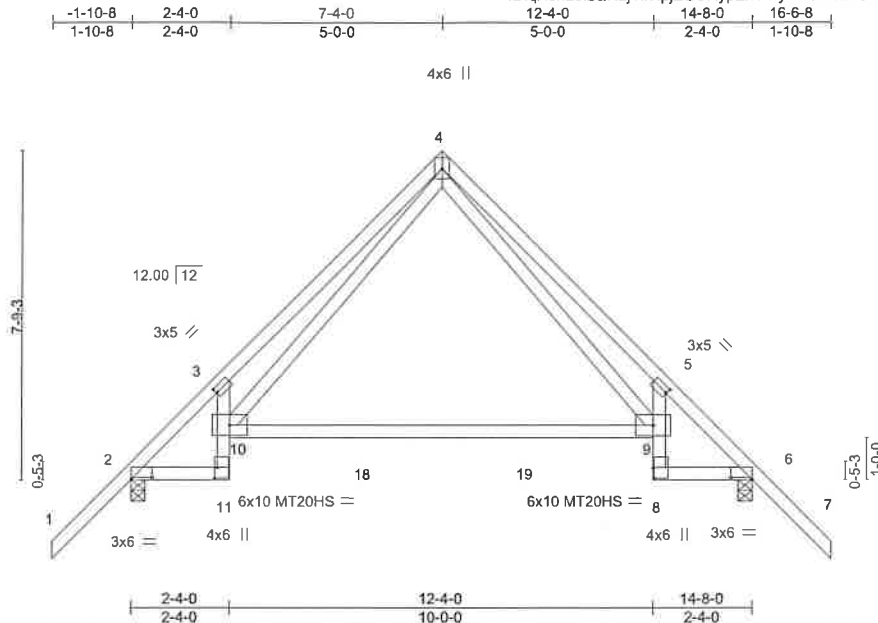
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Eden, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426023
DO210811	CT3A	Roof Special	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 Mitek Industries, Inc. Thu Aug 12 08:13:20 2021 Page 1
ID:qX5h23lzQN2jTlrHpjZGURypZh1-Py12ruXfRfixaZIFx6maJH?sx12fPQLoOZLTnyof_D



Scale = 1:51.8

Plate Offsets (X, Y) - [2:0-6-0,0-0-6], [3:0-0-4,0-1-8], [5:0-0-4,0-1-8], [6:0-6-0,0-0-6], [8:0-3-0,0-0-4], [11:0-3-0,0-0-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.41	Vert(LL)	-0.27 9-10	>646	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.56 9-10	>314	180	MT20HS	187/143
TCDL 10.0	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.16 6	n/a	n/a		
BCLL 0.0 *	Code	IBC2015/TPI2014	Matrix-MR						
BCDL 10.0								Weight: 91 lb	FT = 6%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-11,5-8: 2x4 SP No.1D
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

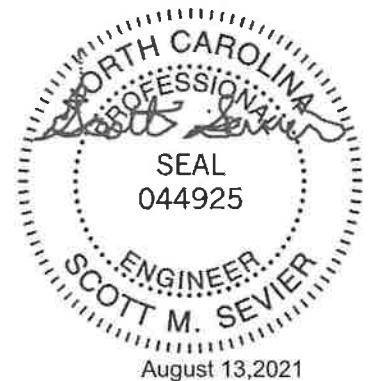
(size) 2=0-4-0, 6=0-4-0
Max Horz 2=-178(LC 8)
Max Uplift 2=-26(LC 10), 6=-26(LC 11)
Max Grav 2=699(LC 2), 6=699(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-764/0, 3-4=-1670/120, 4-5=-1540/2, 5-6=-788/0
BOT CHORD 2-11=-20/542, 3-10=-639/171, 9-10=0/409, 5-9=-589/126, 6-8=0/472
WEBS 4-9=0/1166, 4-10=-86/1283

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=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) 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, 6.



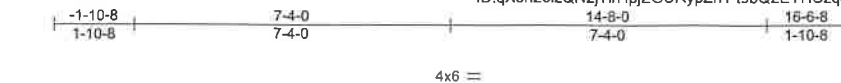
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A Mitek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426024
DO210811	CT3GE	Common Supported Gable	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8,430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:21 2021 Page 1
ID:qX5h23lzQN2jTlrHpjZGURypZh1-19bQ2EYHCzqoBiKRvPpHrVY2b9ZU7yxcC41J0yof_C



Scale = 1:50.8

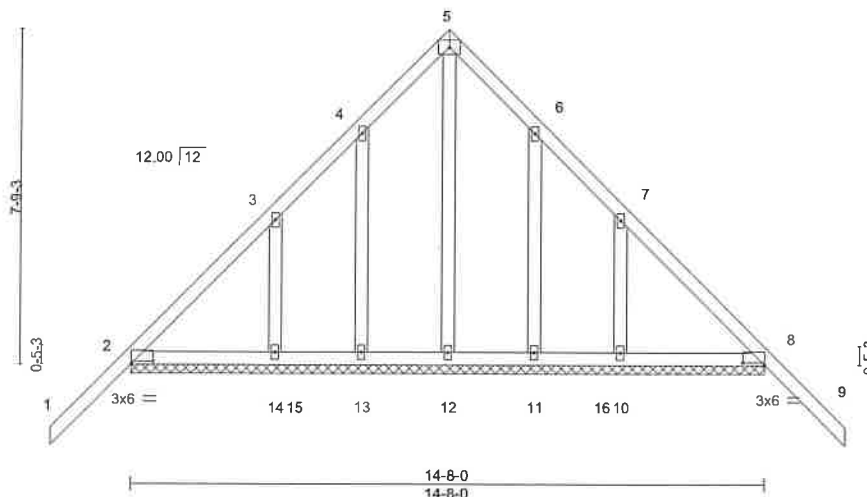


Plate Offsets (X,Y)--		[2:0-6-0,0-0-10], [8:0-6-0,0-0-10]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf)	15.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code IBC2015/TPI2014	
BCDL	10.0		
		CSI.	
		TC	0.35
		BC	0.17
		WB	0.13
		Matrix-R	
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	-0.02 9 n/r 120
		Vert(CT)	-0.03 9 n/r 120
		Horz(CT)	0.00 8 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 97 lb	FT = 6%

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

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

REACTIONS. All bearings 14-8-0.
(lb) - Max Horz 2=178(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 12, 13, 14, 11, 10 except 2=285(LC 2), 8=285(LC 2)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
 - 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.
 - 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 14, 11, 10.

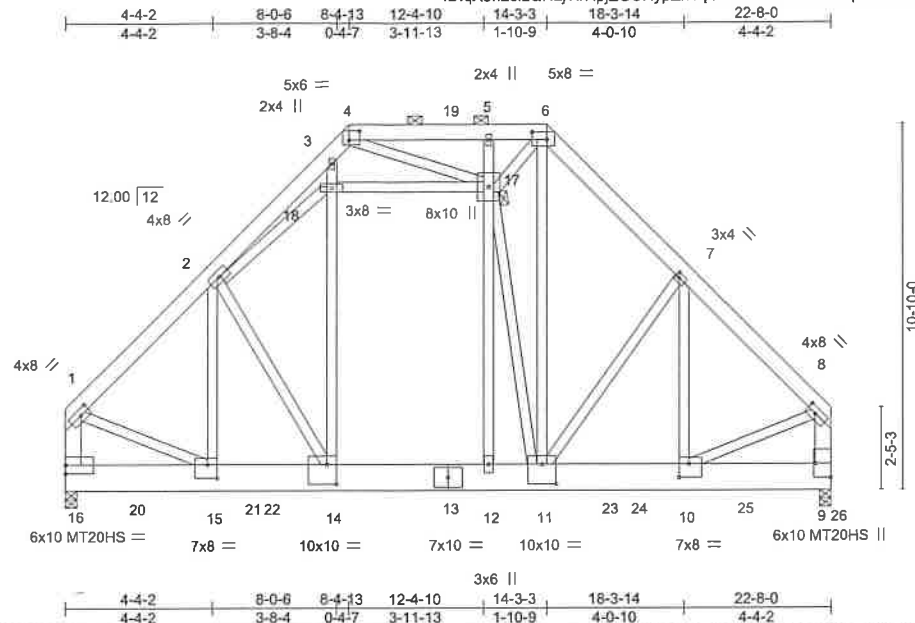


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M1-7473 rev. 6/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426025
DO210811	CT3GT	Piggyback Base Girder	1	2	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560, 8.430 s Jun 2 2021 MITek Industries, Inc. Thu Aug 12 06:13:23 2021 Page 1
 ID:qX5h23lzQN2jTlrlHpjZGURypZh1-pXiATwZYka4WR0UpcEJHwwdMzy95bi2E4WZ8OHyoF_A



Scale = 1:65.0

Plate Offsets (X,Y) - [1:0-3-8,0-2-0], [4:0-3-12,0-3-4], [6:0-5-4,0-2-12], [7:0-1-4,0-1-8], [8:0-3-4,0-2-0], [9:Edge,0-5-8], [10:0-3-8,0-4-12], [11:0-5-0,0-7-0], [14:0-3-8,0-7-0], [15:0-3-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
Snow (PF) 15.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.05 14 >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.09 14-15 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MR	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 582 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-16,8-9: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 17

REACTIONS. (size) 16=0-4-0, 9=0-4-0 (req. 0-4-8)
 Max Horz 16=-215(LC 6)
 Max Uplift 16=-562(LC 10), 9=-513(LC 11)
 Max Grav 16=6541(LC 3), 9=7605(LC 3)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-5638/563, 2-3=-3369/458, 3-4=-2367/322, 4-5=-3865/517, 5-6=-3945/540, 6-7=-5153/609, 7-8=-5728/483, 1-16=-5688/554, 8-9=-5819/475
 BOT CHORD 15-16=-228/584, 14-15=-466/3911, 12-14=-453/3733, 11-12=-453/3737, 10-11=-281/3937, 9-10=-75/582
 WEBS 2-15=-47/757, 6-11=-318/2662, 7-11=-560/55, 7-10=-18/784, 1-15=-331/3774, 8-10=-270/3713, 12-17=-76/439, 5-17=-960/371, 14-18=-308/2232, 3-18=-192/1109, 4-17=-244/1871, 17-18=-1494/207, 6-17=-199/473, 11-17=-503/389, 2-14=-426/78, 2-18=-1718/241

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - WARNING: Required bearing size at joint(s) 9 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)



Job DO210811	Truss CT3GT	Truss Type Piggyback Base Girder	Qty 1	Ply 2	WALNUT GROVE Job Reference (optional)	I47426025
-----------------	----------------	-------------------------------------	----------	----------	--	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:23 2021 Page 2
ID:qX5h23lzQN2jTlrHpjZGURypZh1-pXiATwZYka4WR0UpcEJHwwdMzy95bi2E4WZ8OHoyof_A

NOTES-

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1475 lb down and 413 lb up at 12-6-8, and 80 lb down and 37 lb up at 22-5-4 on top chord, and 1171 lb down and 40 lb up at 2-0-12, 1163 lb down and 40 lb up at 4-0-12, 1165 lb down and 40 lb up at 6-0-12, 1492 lb down and 421 lb up at 7-10-8, 1171 lb down and 40 lb up at 14-0-12, 1170 lb down and 40 lb up at 16-0-12, 1155 lb down and 40 lb up at 18-0-12, and 1171 lb down and 40 lb up at 20-0-12, and 1178 lb down and 34 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-50, 4-6=-50, 6-8=-50, 9-16=-20

Concentrated Loads (lb)

Vert: 8=-37 15=-960(B) 11=-960(B) 10=-960(B) 5=-1241 14=-1271 20=-960(B) 22=-960(B) 23=-960(B) 25=-960(B) 26=-966(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/18/2020 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426026
DO210811	CT4	Common	3	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8,430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:24 2021 Page 1

ID:qX5h23lzQN2jTirHjzGURypZh1-HkGYgGaAUuCN2A30AxxWT7AZpMS0KIJNJAJhwjyof_9



4x6 =

Scale = 1:59.2

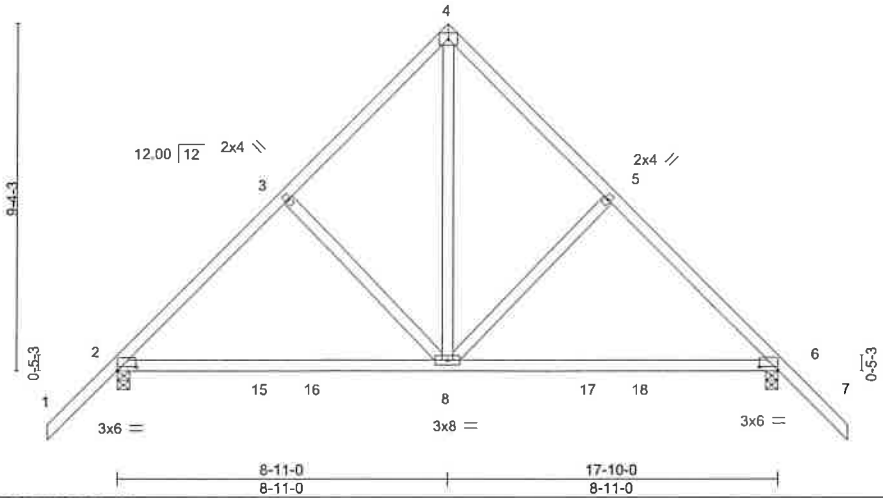


Plate Offsets (X,Y) - [2:0-6-0,0-1-2], [6:0-6-0,0-1-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.35	Vert(LL)	-0.11	8-11	>999	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.70	Vert(CT)	-0.22	8-14	>978		
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Horz(CT)	0.01	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 104 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-4-0, 6=0-4-0
 Max Horz 2=209(LC 9)
 Max Uplift 2=-25(LC 10), 6=-25(LC 11)
 Max Grav 2=826(LC 2), 6=826(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=793/58, 3-4=617/96, 4-5=617/96, 5-6=793/58
 BOT CHORD 2-8=22/599, 6-8=0/528
 WEBS 4-8=31/529

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) 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426027
DO210811	CT4A	Common	2	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MITek Industries, Inc. Thu Aug 12 08:13:24 2021 Page 1

ID:qX5h23lzQN2jTlrHpjZGURypZh1-HkGYgGaAUuCN2A30AxrWT7AZpMSaKIONJAjhwjyof_9



4x6 =

Scale = 1:59.2

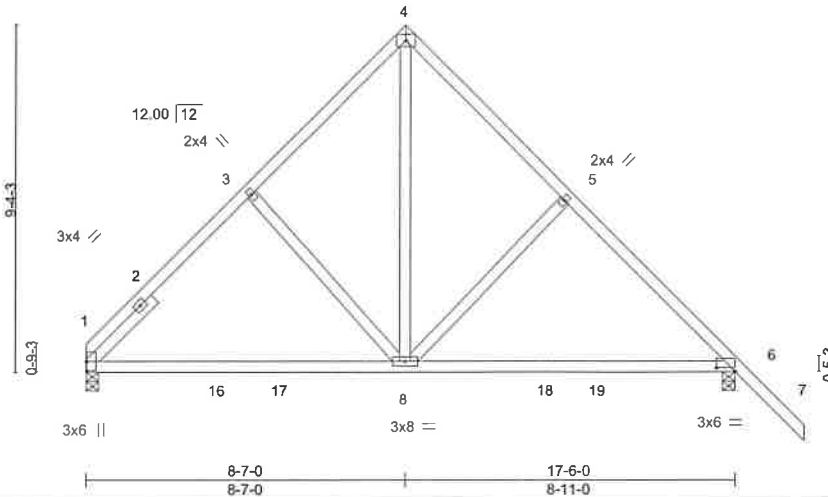


Plate Offsets (X,Y)-- [1:0-3-0,0-0-2], [6:0-6-0,0-1-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.35	Vert(LL) -0.11	8-15	>999	240	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.66	Vert(CT) -0.23	8-15	>904	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Horz(CT) 0.01	1	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 102 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=0-4-0, 6=0-4-0
 Max Horz 1=-196(LC 6)
 Max Uplift 6=-27(LC 11)
 Max Grav 1=694(LC 2), 6=819(LC 2)

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

TOP CHORD 1-3=-678/61, 3-4=-599/100, 4-5=-606/103, 5-6=-764/65
 BOT CHORD 1-8=-27/577, 6-8=0/523
 WEBS 4-8=48/507

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 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 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



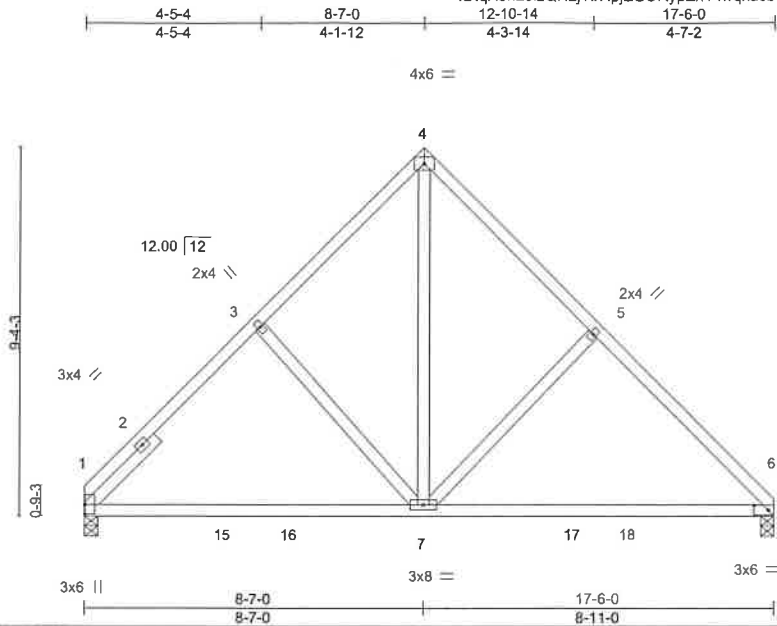
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	
DO210811	CT4B	Common	1	1		147426028

Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:25 2021 Page 1

ID:qX5h23lzQN2jTlrHpjZGURypZh1-lwqxucboFCLegKeCkfMI?Likhmoe3lXXXq2ETAYof_8



Scale = 1:55.7

Plate Offsets (X,Y) - [1.0-3.0,0-0-2], [6.0-4.6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.34	Vert(LL)	-0.11	7-14	>999	240	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.67	Vert(CT)	-0.24	7-14	>861	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.01	1	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR							
BCDL 10.0	Code IBC2015/TPI2014							Weight: 98 lb	FT = 6%

LUMBER-

- 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

BRACING-

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

REACTIONS.

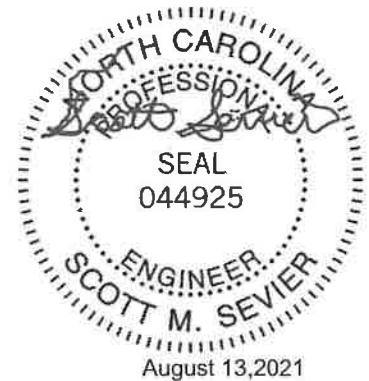
- (size) 1=0-4-0, 6=0-4-0
- Max Horz 1=-172(LC 6)
- Max Grav 1=700(LC 2), 6=700(LC 2)

FORCES.

- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 1-3=-687/68, 3-4=-608/107, 4-5=-618/106, 5-6=-776/67
- BOT CHORD 1-7=-52/563, 6-7=0/517
- WEBS 4-7=-52/513, 5-7=-252/156

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
- TCCL: 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



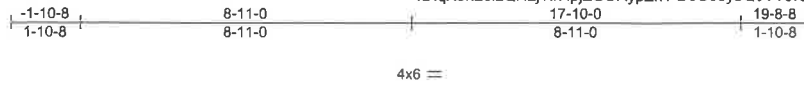
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426029
DO210811	CT4GE	Common Supported Gable	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:26 2021 Page 1
 ID:qX5h23lzQN2jTlrHjzGURypZh1-D6OJ5ybQ0VT5IUODOHML_YYFvLAFEOE0gmUoo?cyof_7



Scale = 1:59.2

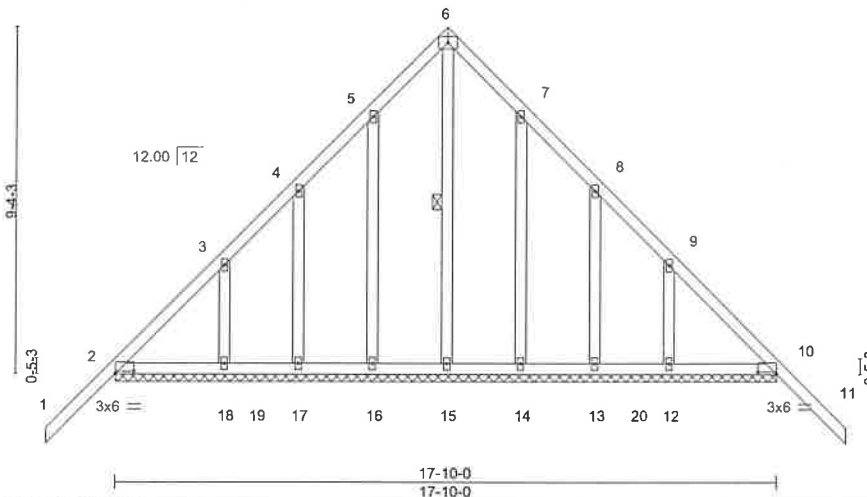


Plate Offsets (X,Y)-- [2:0-6-0,0-0-10], [10:0-6-0,0-0-10]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.02	11	n/r	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.03	11	n/r		
TCDL 10.0	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	10	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-R						
BCDL 10.0								Weight: 128 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-15

REACTIONS.

All bearings 17-10-0.
 (lb) - Max Horz 2=209(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 18, 14, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18, 14, 13, 12 except 2=277(LC 2), 10=277(LC 2)

FORCES.

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
- 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.
- 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 17, 18, 14, 13, 12.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Eden, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426030
DO210811	CT5	Roof Special	4	1		

Truss Builders, Inc., Morrisville, NC - 27560, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:28 2021 Page 1
 ID:qX5h23lzQN2jTlrHjZGURypZh1-AVW3WddgY7jpXnNnPrvSdzKFozqCG3NzDoHv3Uyof_5

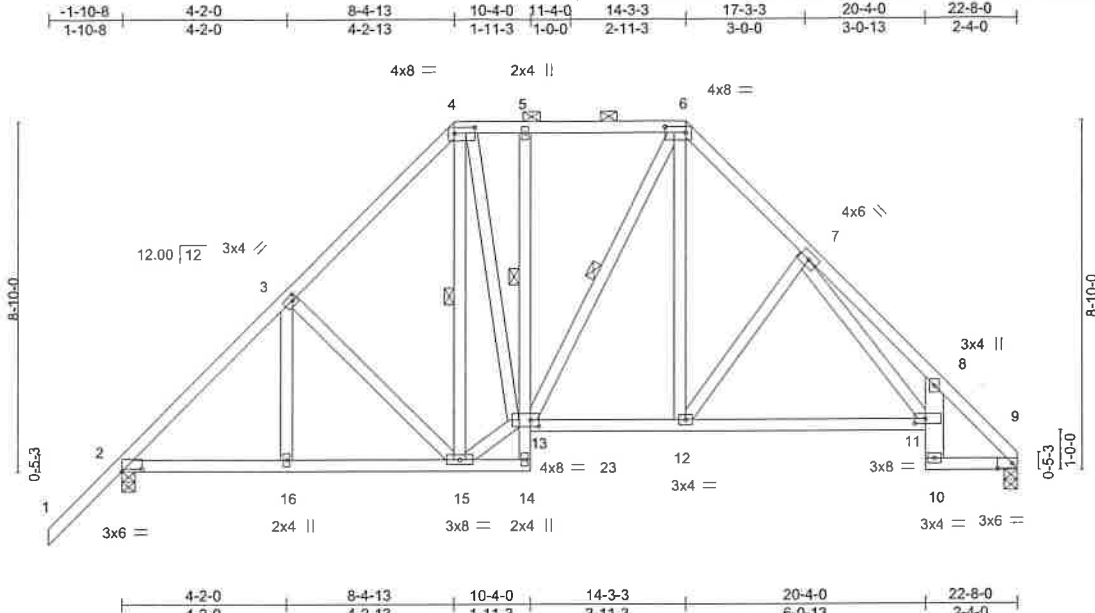


Plate Offsets (X,Y) - [2:0-6-0,0-0-10], [3:0-1-4,0-1-8], [4:0-6-4,0-1-12], [6:0-6-4,0-1-12], [9:0-4-6,0-1-8], [11:0-3-4,0-1-8], [13:0-2-8,0-2-0]

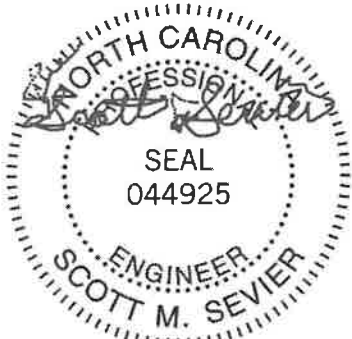
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.07 11-12 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.39	Vert(CT) -0.16 11-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.09 9 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 178 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-0 cc purlins, except
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 cc purlins (6-0-0 max.); 4-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 cc bracing, Except: 6-0-0 cc bracing: 14-15,13-14.
	WEBS 1 Row at midpt 5-13
	1 Row at midpt 6-13, 4-15

REACTIONS. (size) 9=0-4-0, 2=0-4-0
 Max Horz 2=188(LC 7)
 Max Uplift 2=-20(LC 10)
 Max Grav 9=902(LC 2), 2=1024(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=1111/0, 3-4=-893/61, 6-7=-988/48, 7-8=-2004/28, 8-9=-1230/0, 4-5=-665/69, 5-6=-671/69
 BOT CHORD 2-16=-44/729, 15-16=-44/729, 12-13=0/653, 11-12=0/838, 8-11=-550/77, 9-10=0/786
 WEBS 6-12=-27/445, 7-12=-326/122, 7-11=-23/947, 3-15=-253/111, 13-15=-10/609, 4-13=0/475

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



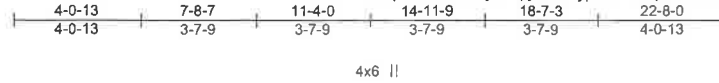
August 13, 2021

Job DO210811	Truss CT5GT	Truss Type Common Girder	Qty 1	Ply 3	WALNUT GROVE	147426031
-----------------	----------------	-----------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8 430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:30 2021 Page 1

ID:qX5h23lzQN2jTlrHjzGURypZh1-6tdqxJfx4kzXm5WAWCxiwOQcKnWokwLGH6m?8Nyof_3



Scale = 1:69.7

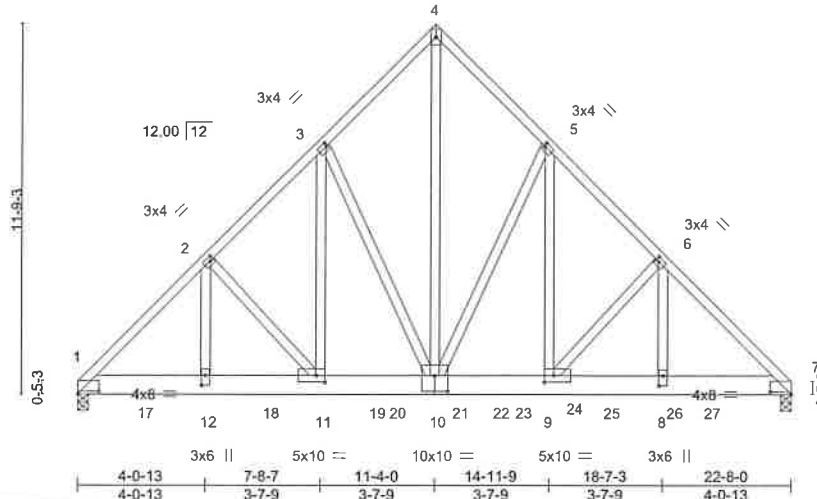


Plate Offsets (X,Y) - [1:0-8-0,0-0-15], [2:0-1-4,0-1-8], [3:0-0-12,0-1-8], [5:0-0-12,0-1-8], [6:0-1-4,0-1-8], [7:0-8-0,0-0-15], [8:0-3-12,0-1-8], [9:0-3-8,0-2-8], [10:0-5-0,0-6-0], [11:0-3-8,0-2-8], [12:0-3-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	1-11-4	TC 0.29	Vert(LL)	-0.09	9-10	>999	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.61	Vert(CT)	-0.17	9-10	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.62	Horz(CT)	0.04	7	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MR						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 616 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-10: 2x4 SP No.2	

REACTIONS. (size) 1=0-4-0, 7=0-4-0
 Max Horz 1=213(LC 31)
 Max Uplift 1=178(LC 10), 7=175(LC 11)
 Max Grav 1=6849(LC 2), 7=7697(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-8970/276, 2-3=-7169/260, 3-4=-5597/230, 4-5=-5597/231, 5-6=-7364/243, 6-7=-9090/236
 BOT CHORD 1-12=-253/6316, 11-12=-253/6316, 10-11=-125/5005, 9-10=-62/5142, 8-9=-120/6405, 7-8=-120/6405
 WEBS 4-10=-244/7554, 5-10=-2785/262, 5-9=-177/3597, 6-9=-1878/163, 6-8=-57/2395, 3-10=-2466/295, 3-11=-221/3165, 2-11=-1949/190, 2-12=-96/2506

- NOTES-**
- 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=178, 7=175.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1108 lb down and 46 lb up at 2-0-12, 1108 lb down and 46 lb up at 4-0-12, 1108 lb down and 46 lb up at 6-0-12, 1286 lb down and 241 lb up at 7-10-8, 704 lb down at 10-0-12, 704 lb down at 12-0-12, 1291 lb down and 241 lb up at 12-6-8, 1101 lb down and 46 lb up at 14-0-12, 1108 lb down and 46 lb up at 16-0-12, 1108 lb down and 46 lb up at 18-0-12, and 1108 lb down and 46 lb up at 20-0-12, and 1112 lb down and 46 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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 ANSIT/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

TRENCO ENGINEERING BY
 818 Soundside Road
 Edenton, NC 27932

Job DO210811	Truss CT5GT	Truss Type Common Girder	Qty 1	Ply 3	WALNUT GROVE Job Reference (optional)	I47426031
-----------------	----------------	-----------------------------	----------	----------	--	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:30 2021 Page 2
ID:qX5h23lzQN2jTlrHpjZGURypZh1-6tdqxJfx4kzXm5WAWCxwiOQcKnWokwLGH6m78Nyof_3

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, 1-7=-19

Concentrated Loads (lb)

Vert: 11=-1122(F) 12=-961(F) 16=-964(F) 17=-961(F) 18=-961(F) 20=-614(F) 21=-614(F) 22=-1122(F) 24=-961(F) 25=-961(F) 26=-961(F) 27=-961(F)

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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



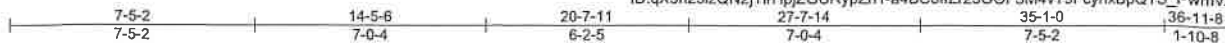
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426032
DO210811	CT6	Piggyback Base	6	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 Mitek Industries, Inc. Thu Aug 12 08:13:31 2021 Page 1

ID:qX5h23zqNzjTlrHqjZGURypZh1-a4BC8fzr25OOF5M4vT9FcyhxBpQTS_PwmVZgpyof_2



Scale = 1:66.6

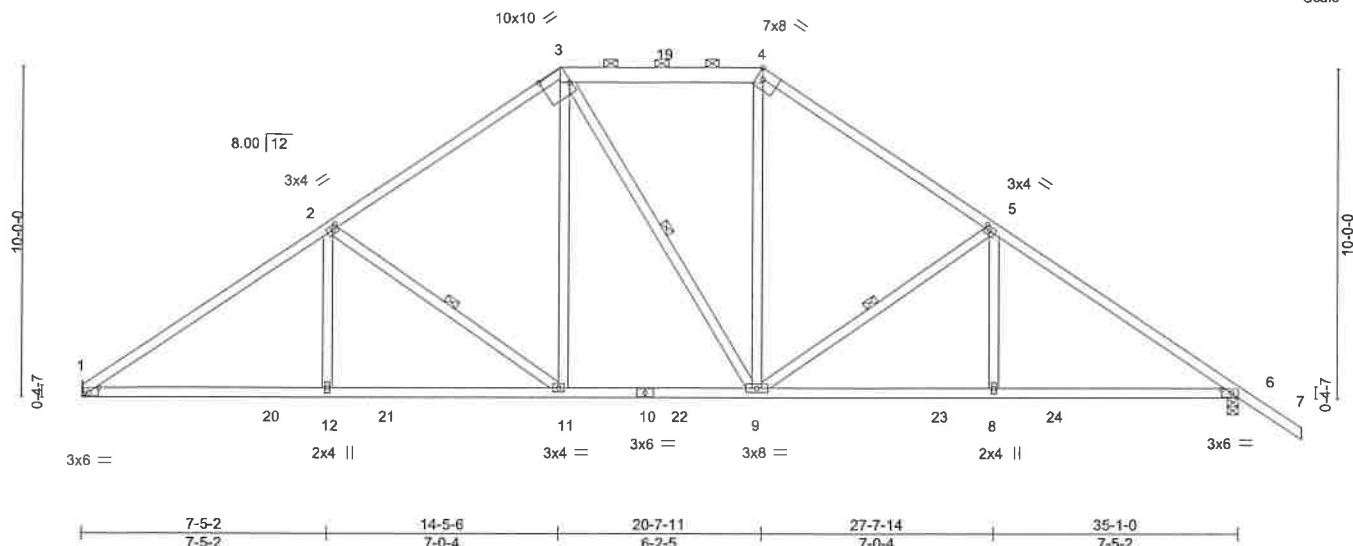


Plate Offsets (X,Y)--	[1:0-3-9,0-1-8], [2:0-1-12,0-1-8], [3:0-9-8,0-6-4], [5:0-1-12,0-1-8], [6:0-3-9,0-1-8]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.12 9-11	>999	240	MT20	244/190
Snow (Pf)	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.22 12-15	>999	180		
TCDL	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.09 6	n/a	n/a		
BCLL	Code IBC2015/TPI2014		Matrix-MR					Weight: 205 lb	FT = 6%
BCDL									

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-4: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-11, 3-9, 5-9

REACTIONS. (size) 1=Mechanical, 6=0-4-0
 Max Horz 1=-202(LC 8)
 Max Uplift 1=-34(LC 10), 6=-62(LC 11)
 Max Grav 1=1400(LC 2), 6=1519(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2173/70, 2-3=-1624/105, 3-4=-1257/133, 4-5=-1623/103, 5-6=-2151/62
 BOT CHORD 1-12=-75/1849, 11-12=-75/1849, 9-11=0/1304, 8-9=0/1712, 6-8=0/1712
 WEBS 2-12=0/320, 2-11=-675/146, 3-11=-3/588, 4-9=-1/545, 5-9=-654/138, 5-8=0/315

- 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) 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) 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, 6.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 13, 2021

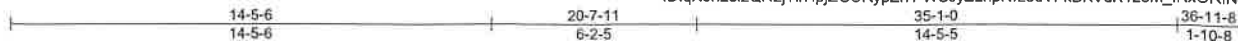
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A Mitek Affiliate 818 Soundside Road Edenton, NC 27932</p>
--	--

Job DO210811	Truss CT6GE	Truss Type GABLE	Qty 1	Ply 1	WALNUT GROVE	147426033
-----------------	----------------	---------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8,430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:33 2021 Page 1

ID:qX5h23lzQN2jTlrHpjZGURypZh1-WSJyZLhpNfL5dYFkBKvK125m_fRxORIN4_fiyof_0



Scale = 1:65.9

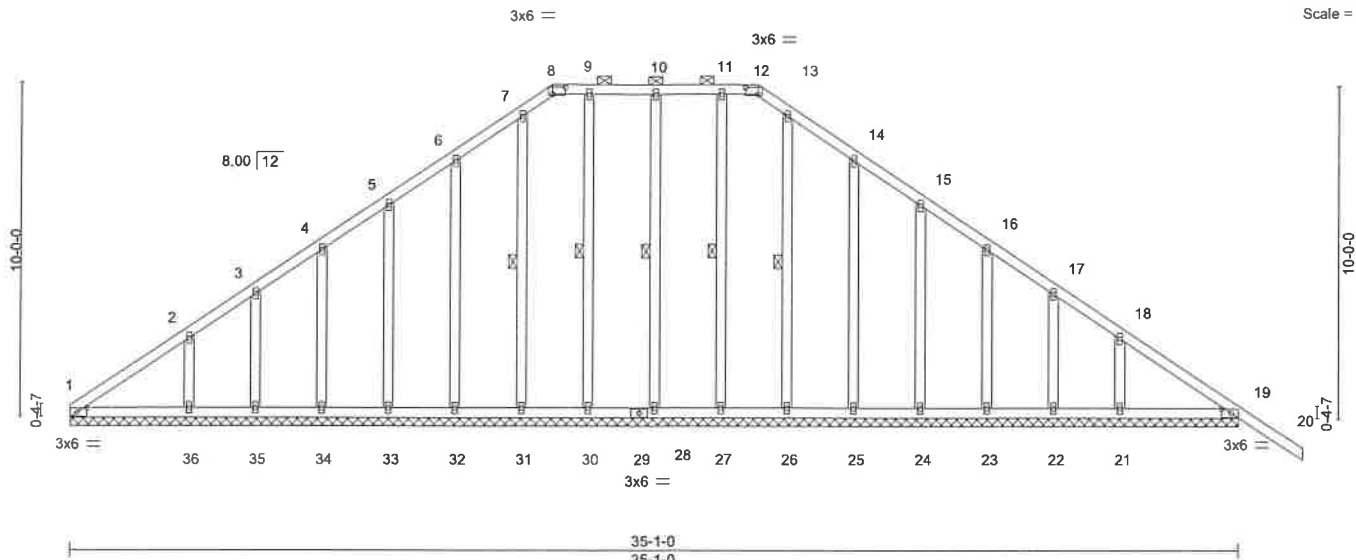


Plate Offsets (X,Y) - [1:0-3-9,0-1-8], [8:0-4-8,0-2-8], [12:0-4-8,0-2-8], [13:0-0-0,0-0-0], [14:0-0-0,0-0-0], [15:0-0-0,0-0-0], [16:0-0-0,0-0-0], [17:0-0-0,0-0-0], [18:0-0-0,0-0-0], [19:0-3-9,0-1-8]

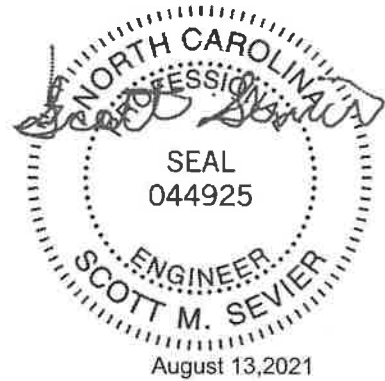
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) -0.02 20 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.02 20 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.01 19 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 257 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 8-12.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 10-28, 9-30, 7-31, 11-27, 13-26

REACTIONS. All bearings 35-1-0.
 (lb) - Max Horz 1=203(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 28, 30, 32, 33, 34, 35, 36, 27, 25, 24, 23, 22, 21
 Max Grav All reactions 250 lb or less at joint(s) 1, 28, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21 except 36=293(LC 22), 19=281(LC 2)

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

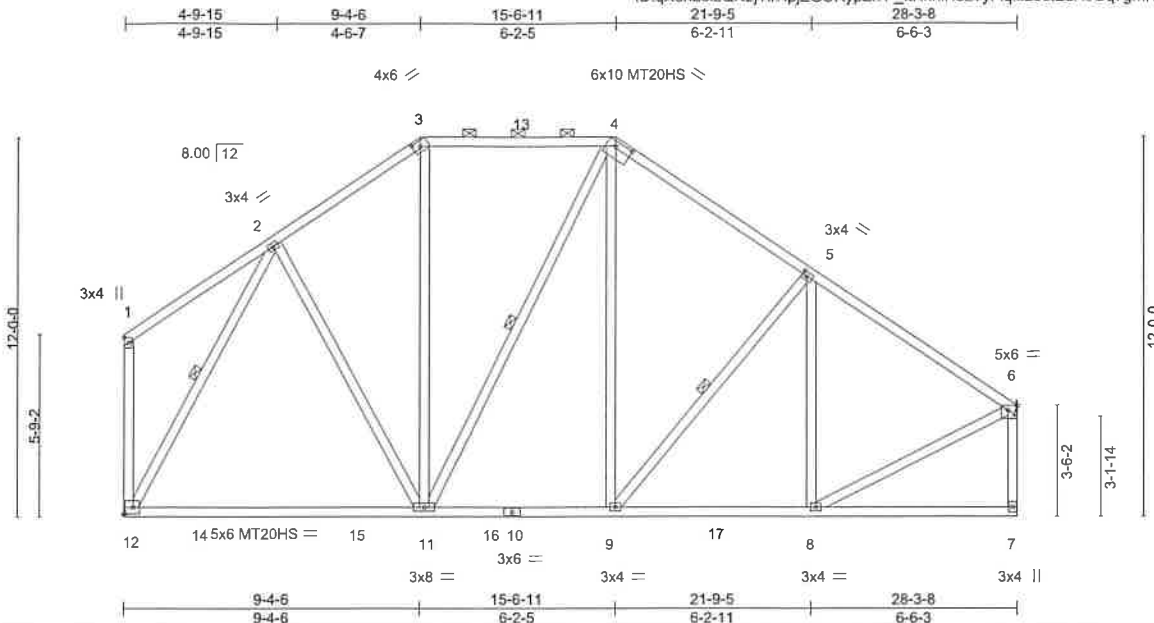
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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.
 - 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 28, 30, 32, 33, 34, 35, 36, 27, 25, 24, 23, 22, 21.
 - 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 MII-7473 rev. 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 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	
DO210811	CT7	Piggyback Base	8	1		147426034
Truss Builders, Inc., Morrisville, NC - 27560,					8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:34 2021 Page 1	
					Job Reference (optional)	
					ID:qX5h23izQN2jTirHpjZGURypZh1- flKnhIR8zTyFiqxl20stEaA6Oq7gmNrokkDH8yof_7	



Scale = 1:69.5

Plate Offsets (X,Y)- [1:Edge,0-1-12], [3:0-2-12,0-2-0], [4:0-6-8,0-1-12], [5:0-1-12,0-1-8], [6:Edge,0-1-12], [12:Edge,0-2-8]

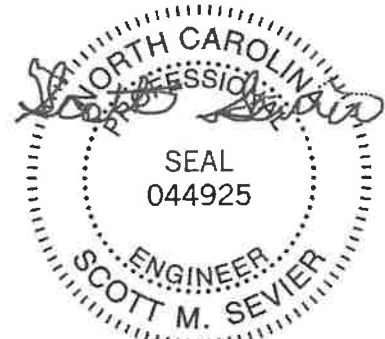
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15		TC 0.75	Vert(LL) -0.27	11-12	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15		BC 0.84	Vert(CT) -0.45	11-12	>752	180	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES		WB 0.49	Horz(CT) 0.01	6	n/a	n/a		
BCLL 0.0	Code IBC2015/TPI2014		Matrix-MR						
BCDL 10.0								Weight: 220 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-11,1-12: 2x4 SP No.2	WEBS 1 Row at midpt 4-11, 5-9, 2-12

REACTIONS. (size) 6=Mechanical, 12=Mechanical
 Max Horz 12=279(LC 6)
 Max Uplift 6=27(LC 11), 12=20(LC 10)
 Max Grav 6=1127(LC 3), 12=1191(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-852/114, 3-4=-662/112, 4-5=-954/127, 5-6=-1047/59
 BOT CHORD 11-12=-118/633, 9-11=-1/739, 8-9=-5/801
 WEBS 2-11=-54/328, 4-9=-31/362, 2-12=-977/47, 6-8=0/837

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



August 13, 2021

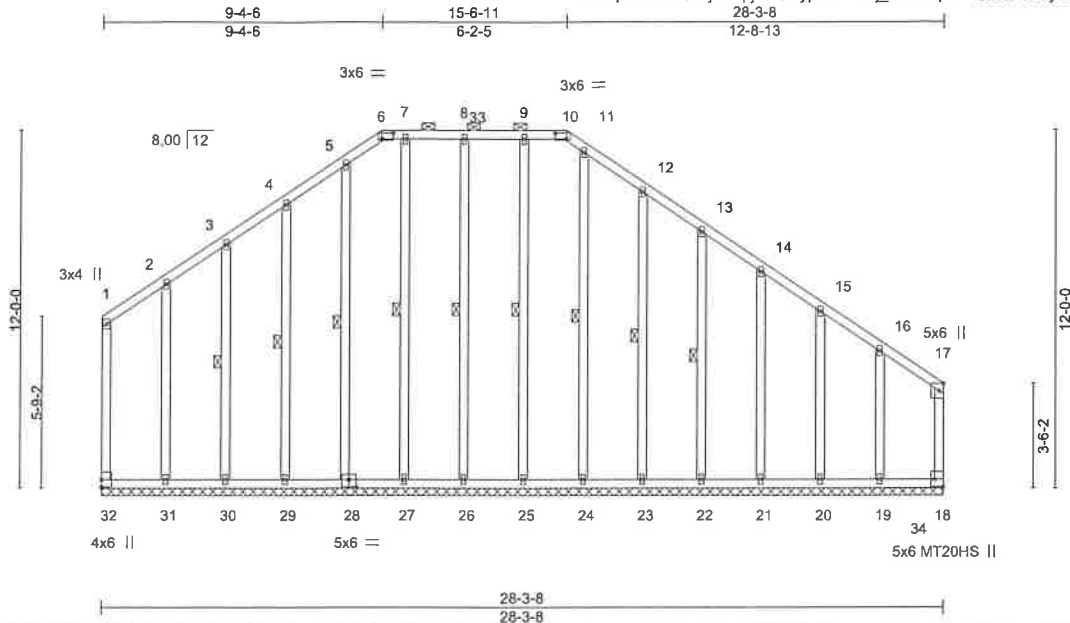
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 6/18/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20687</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Alliance</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
--	--

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	47426035
DO210811	CT7GE	GABLE COMMON	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:35 2021 Page 1

ID:qX5h23lzQN2jTlrHpjZGURypZh1-TrRj_113vGbpsP7JIX5PS7LyoE_Plm?qOTmpayof



Scale = 1:73.7

Plate Offsets (X,Y)-- [6:0-4-8,0-2-8], [10:0-4-8,0-2-8], [18:Edge,0-3-8], [28:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	n/a	-	n/a	MT20HS	187/143
TCDL 10.0	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	18	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-R						
BCDL 10.0								Weight: 275 lb	FT = 6%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 1-32: 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 9-25, 8-26, 7-27, 5-28, 4-29, 3-30, 11-24, 12-23, 13-22

REACTIONS. All bearings 28-3-8.
 (lb) - Max Horz 32--279(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 25, 26, 27, 29, 30, 24, 23, 22, 21, 20 except 32--146(LC 6), 18--365(LC 7), 31--181(LC 7), 19--443(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 32, 28, 25, 26, 27, 29, 30, 24, 23, 22, 21 except 18--460(LC 8), 31--384(LC 21), 20--257(LC 21), 19--539(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 16-17--273/236, 17-18--265/211
 WEBS 16-19--267/226

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.Opsf; BCDL=6.Opsf; 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
 - 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.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.Opsf 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.Opsf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 27, 29, 30, 24, 23, 22, 21, 20 except (jt=lb) 32=146, 18=365, 31=181, 19=443.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 13, 2021

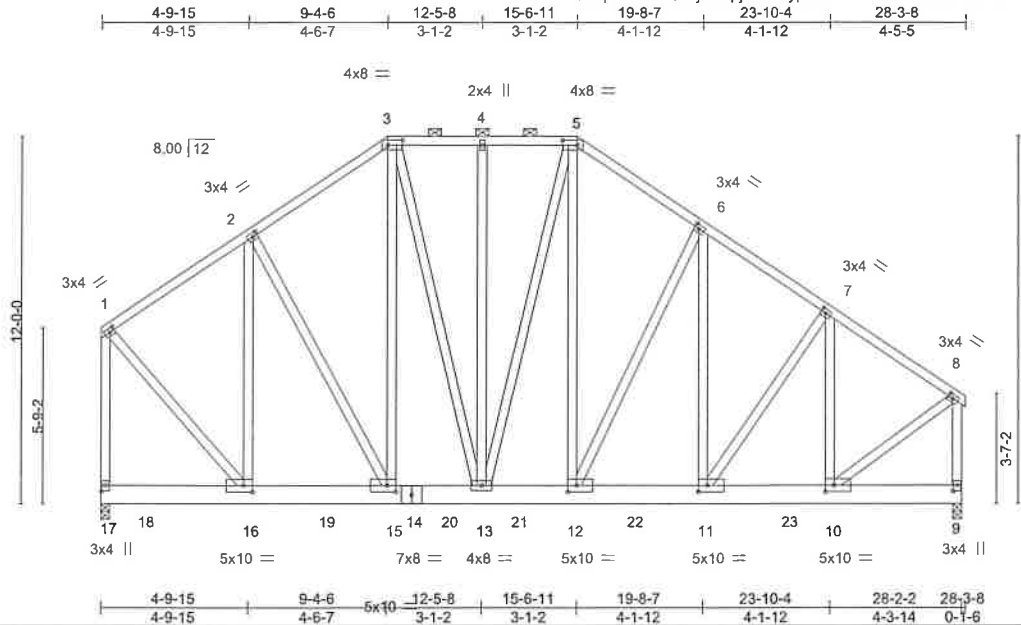
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job DO210811	Truss CT7GT	Truss Type Piggyback Base Girder	Qty 2	Ply 2	WALNUT GROVE	147426036
-----------------	----------------	-------------------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:37 2021 Page 1
ID:qX5h23lzQN2jTlrHjZGURypZh1-PEYTPikKRurX6AZWQAZVICpb1NtB8IlytTyoezy



Scale = 1:71.7

Plate Offsets (X,Y)- [1:0-1-12,0-1-8], [2:0-1-12,0-1-8], [3:0-5-12,0-2-0], [5:0-5-12,0-2-0], [6:0-1-12,0-1-8], [7:0-1-12,0-1-8], [8:0-1-12,0-1-8], [9:0-2-4,0-1-8], [10:0-3-8,0-2-8], [11:0-3-8,0-2-8], [12:0-3-8,0-2-8], [15:0-3-8,0-2-8], [16:0-3-8,0-2-8], [17:0-2-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) -0.02 15 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.03 15 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MR	Horz(CT) 0.01 9 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 637 lb	FT = 6%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-3-8, 9=0-3-8
Max Horz 17=274(LC 6)
Max Uplift 17=401(LC 10), 9=220(LC 11)
Max Grav 17=1623(LC 45), 9=1367(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=1060/325, 2-3=1274/478, 3-4=1006/391, 4-5=1006/391, 5-6=1202/390, 6-7=1275/318, 7-8=1104/204, 1-17=1553/416, 8-9=1315/231
BOT CHORD 15-16=319/938, 13-15=362/1091, 12-13=211/996, 11-12=160/1021, 10-11=152/854
WEBS 2-16=734/277, 2-15=265/443, 3-15=385/536, 3-13=273/375, 5-13=339/330, 5-12=135/405, 6-12=321/198, 7-11=125/294, 7-10=526/156, 1-16=303/1217, 8-10=150/1028

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=401, 9=220.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 762 lb down and 583 lb up at 9-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	47426036
DO210811	CT7GT	Piggyback Base Girder	2	2	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:37 2021 Page 2
 ID:qX5h23lzQN2jTlRHpjZGURypZh1-PEYTPikKRurX6AZWQAZZVICpb1NtB8llytTyoezy

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-50, 3-5=-50, 5-8=-50, 9-17=-20

Concentrated Loads (lb)

Vert: 15=-474(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

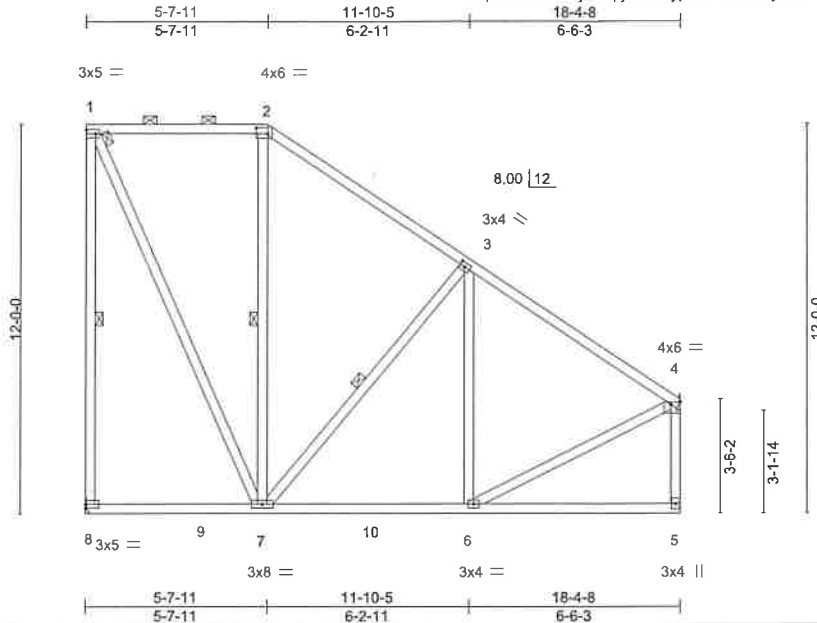


818 Soundside Road
 Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426037
DO210811	CT7S	Piggyback Base	2	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8,430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:38 2021 Page 1
ID:qX5h23lzQNzJTrHpiZGURypZh1-iQ6rc2lyBBzOkK8l_u5o14lqw?Hocd3RXMIQPvyoezx



Scale = 1:67.7

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-4-4,0-2-4], [3:0-1-12,0-1-8], [4:Edge,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.89	Vert(LL) -0.07	7-8	>999	240	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT) -0.08	7-8	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.31	Horz(CT) 0.01	4	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 151 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-8, 2-7, 3-7

REACTIONS.

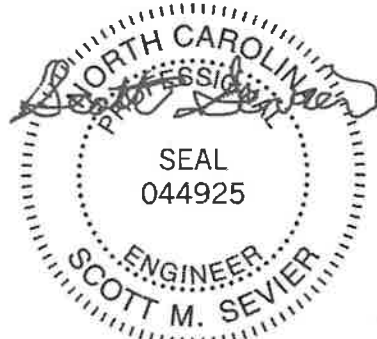
(size) 8=Mechanical, 4=Mechanical
Max Horz 8=-342(LC 6)
Max Uplift 8=-111(LC 6)
Max Grav 8=783(LC 22), 4=723(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=674/109, 1-2=-283/116, 2-3=-448/94, 3-4=-633/30
BOT CHORD 7-8=-203/268, 6-7=0/486
WEBS 1-7=-99/659, 3-7=-373/135, 4-6=0/483

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
- 2) 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (t=lb) 8=111.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



August 13, 2021

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 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



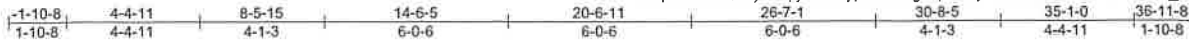
818 Soundside Road
Edenton, NC 27932

Job DO210811	Truss CT8	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	WALNUT GROVE	147426038
-----------------	--------------	------------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:39 2021 Page 1

ID:qX5h23lzQN2jTrHpjZGURypZh1-LcgDqOmayV5FLiuYbc1aiH7xPV?L?_bl0R_xMyoezw



Scale = 1:71.9

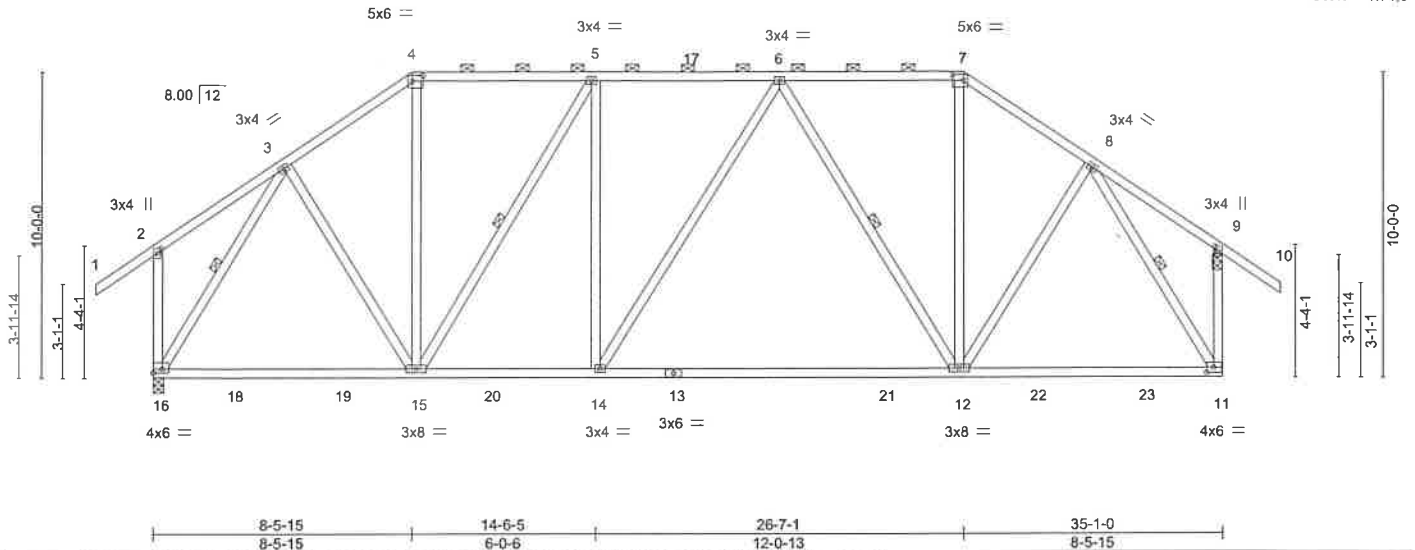


Plate Offsets (X,Y) - [2:0-2-0,0-1-4], [4:0-4-4,0-2-4], [7:0-4-4,0-2-4], [9:0-2-0,0-1-4], [11:0-2-12,0-2-0], [16:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.98	Vert(LL) -0.57 12-14 >739 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.53	Vert(CT) -0.92 12-14 >451 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.04 9 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 265 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-13 max.): 4-7.
BOT CHORD 2x4 SP No.1D	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 2-2-0 oc bracing: 12-14.
WEBS 2x4 SP No.3 *Except* 2-16,9-11: 2x4 SP No.2	WEBS 1 Row at midpt 5-15, 6-12, 3-16, 8-11

REACTIONS. (size) 2=0-4-0, 9=0-4-0
 Max Horz 2=-251(LC 8)
 Max Uplift 2=-69(LC 10), 9=-69(LC 11)
 Max Grav 2=1578(LC 3), 9=1585(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-329/243, 3-4=-1242/130, 4-5=-999/138, 5-6=-1357/115, 6-7=-1038/124,
 7-8=-1290/112, 2-16=-79/1300, 9-11=0/1335
 BOT CHORD 15-16=-34/758, 14-15=-54/1357, 12-14=-62/1290, 11-12=-20/779
 WEBS 3-15=-29/471, 4-15=-9/403, 5-15=-728/66, 5-14=0/335, 6-12=-546/123, 7-12=0/429,
 8-12=-36/506, 3-16=-1349/155, 8-11=-1448/15

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=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
 - 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 9.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

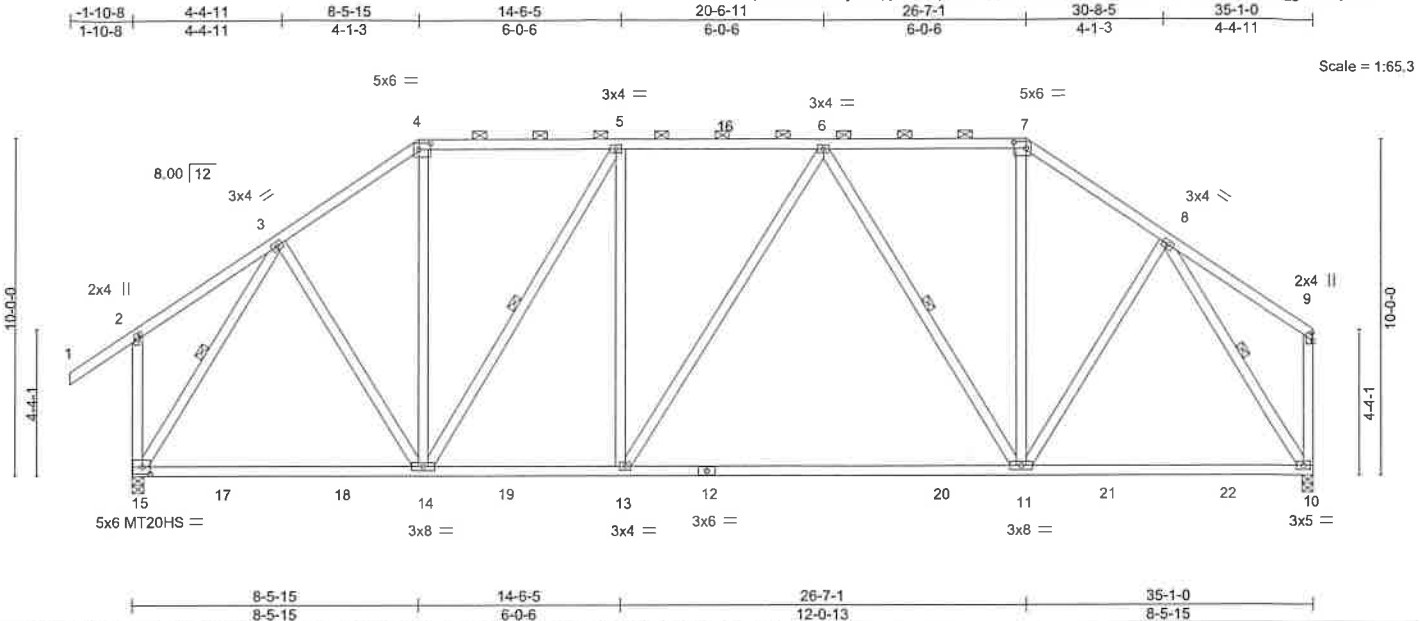


August 13, 2021

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426039
DO210811	CT8A	PIGGYBACK BASE	2	1	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MITek Industries, Inc. Thu Aug 12 08:13:40 2021 Page 1
ID:qX5h23zQn2jTlrHpjZGURypZh1-ppEc1kmCjpD6zdH56i7G6Vq9bprD4Sck_gBXToyoezv



Scale = 1:65.3

Plate Offsets (X,Y)-	[2:0-2-0,0-0-12], [4:0-4-4,0-2-4], [7:0-4-4,0-2-4], [9:0-2-15,0-0-8], [15:0-2-12,0-2-8]
----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	TC	Vert(LL)	-0.56	11-13	>742	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	BC	Vert(CT)	-0.92	11-13	>454	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	WB	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0	Code IBC2015/TPI2014	Matrix-MR							
BCDL	10.0									Weight: 262 lb FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-11 max.): 4-7.
BOT CHORD 2x4 SP No.1D	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3	WEBS 2-2-0 oc bracing: 11-13.
	WEBS 1 Row at midpt 5-14, 6-11, 3-15, 8-10

REACTIONS. (size) 15=0-4-0, 10=0-4-0
 Max Horz 15=242(LC 7)
 Max Uplift 15=69(LC 10), 10=45(LC 11)
 Max Grav 15=1581(LC 3), 10=1481(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=1246/123, 4-5=1002/133, 5-6=1361/109, 6-7=1046/118, 7-8=1301/106, 2-15=331/86
 BOT CHORD 14-15=166/804, 13-14=120/1361, 11-13=111/1296, 10-11=45/795
 WEBS 3-14=56/472, 4-14=0/403, 5-14=732/96, 5-13=0/336, 6-11=545/156, 7-11=0/434, 8-11=54/499, 3-15=1361/39, 8-10=1455/48

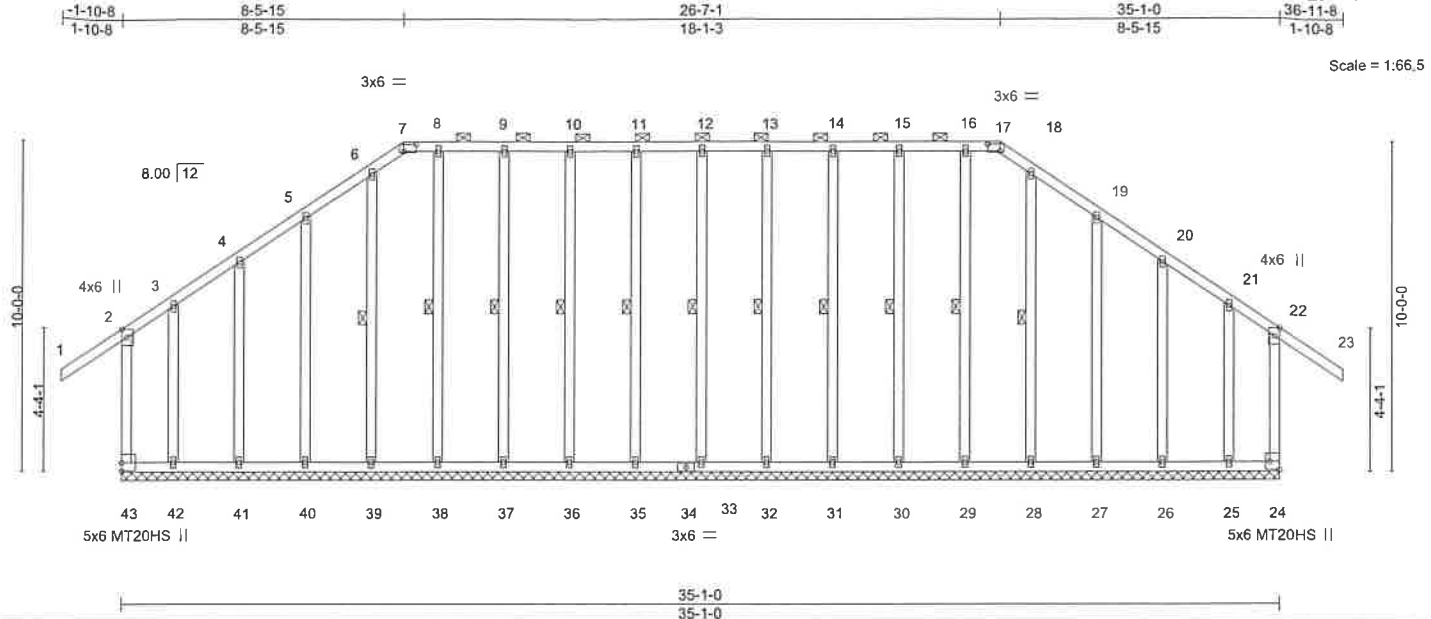
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 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
 - 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.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 10.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426040
DO210811	CT8GE	GABLE	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:42 2021 Page 1
ID:qX5h23zQN2jTlrHjZGURypZh1-mBMMSQoSfQUqCXRtDj9kCwwU5cfvYS1R_geYhyoezt



Scale = 1:66.5

Plate Offsets (X,Y) - [2:0-3-0,Edge], [7:0-4-8,0-2-8], [17:0-4-8,0-2-8], [22:0-3-0,Edge], [24:Edge,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15		TC 1.00	Vert(LL) -0.03	23	n/r	120	MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15		BC 0.46	Vert(CT) -0.05	22-23	n/r	120	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES		WB 0.14	Horz(CT) -0.01	24	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-R						
BCDL 10.0								Weight: 335 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-17.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 12-33, 11-35, 10-36, 9-37, 8-38, 6-39, 13-32, 14-31, 15-30, 16-29, 18-28

REACTIONS.

All bearings 35-1-0.
(lb) - Max Horz 43=251(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 33, 35, 36, 37, 40, 41, 32, 31, 30, 27, 26 except 43=328(LC 6), 24=-317(LC 7), 42=-350(LC 7), 25=-339(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 33, 35, 36, 37, 38, 39, 40, 41, 32, 31, 30, 29, 28, 27, 26 except 43=440(LC 23), 24=431(LC 22), 42=456(LC 8), 25=444(LC 9)

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

TOP CHORD 2-43=284/161, 22-24=279/155

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- 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
- 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.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 35, 36, 37, 40, 41, 32, 31, 30, 27, 26 except (jt=lb) 43=328, 24=317, 42=350, 25=339.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

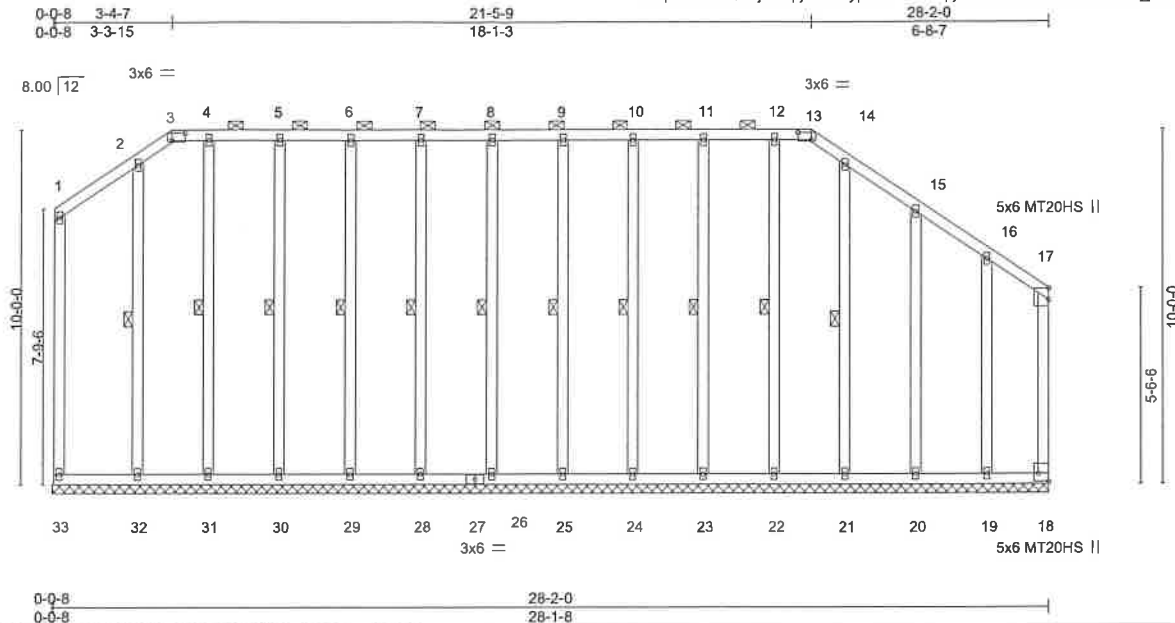


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	
DO210811	CT8S	GABLE	1	1		147426041
					Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MITek Industries, Inc. Thu Aug 12 08:13:44 2021 Page 1
ID:qX5h23lzQN2jTlRhpjZGURypZh1-iaU6t6pjm1kXSFbsL8BCHL7vhQG_0LnKvH9lcZyoezr



Scale = 1:62.0

Plate Offsets (X,Y) -- [3:0-4-8,0-2-8], [13:0-4-8,0-2-8], [18:Edge,0-3-8]

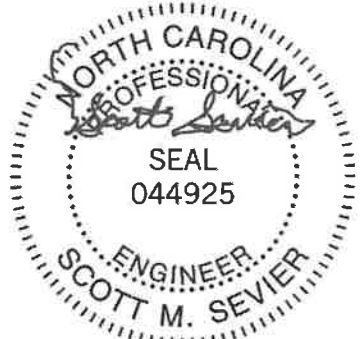
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15		TC 0.68	Vert(LL) n/a	-	n/a	999	MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15		BC 0.74	Vert(CT) n/a	-	n/a	999	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES		WB 0.24	Horz(CT) -0.01	18	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-R						
BCDL 10.0								Weight: 278 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-13.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-7-14 oc bracing.
WEBS 2x4 SP No.1D *Except*	WEBS 1 Row at midpt 8-26, 7-28, 6-29, 5-30, 4-31, 2-32, 9-25, 10-24, 11-23, 12-22, 14-21
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 28-2-0.
 (lb) - Max Horz 33=178(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 33, 26, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20 except 18=501(LC 9), 19=580(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 33, 26, 28, 29, 30, 31, 25, 24, 23, 22, 21, 20 except 18=546(LC 6), 32=257(LC 21), 19=687(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 17-18=256/224
 WEBS 16-19=301/266

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
 - 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.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 26, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20 except (jt=lb) 18=501, 19=580.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 13, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MITek Affiliate 818 Soundside Road Eden, NC 27932</p>
---	---

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426042
DO210811	CT9	Piggyback Base	4	1		

Truss Builders, Inc., Morrisville, NC - 27560, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:46 2021 Page 1
 ID:qX5h23lzQN2jTlRHpjZGURypZh1-eybtInrzJf_FhYIESZEGmM4BQEYzUAVcMberhSyoezp

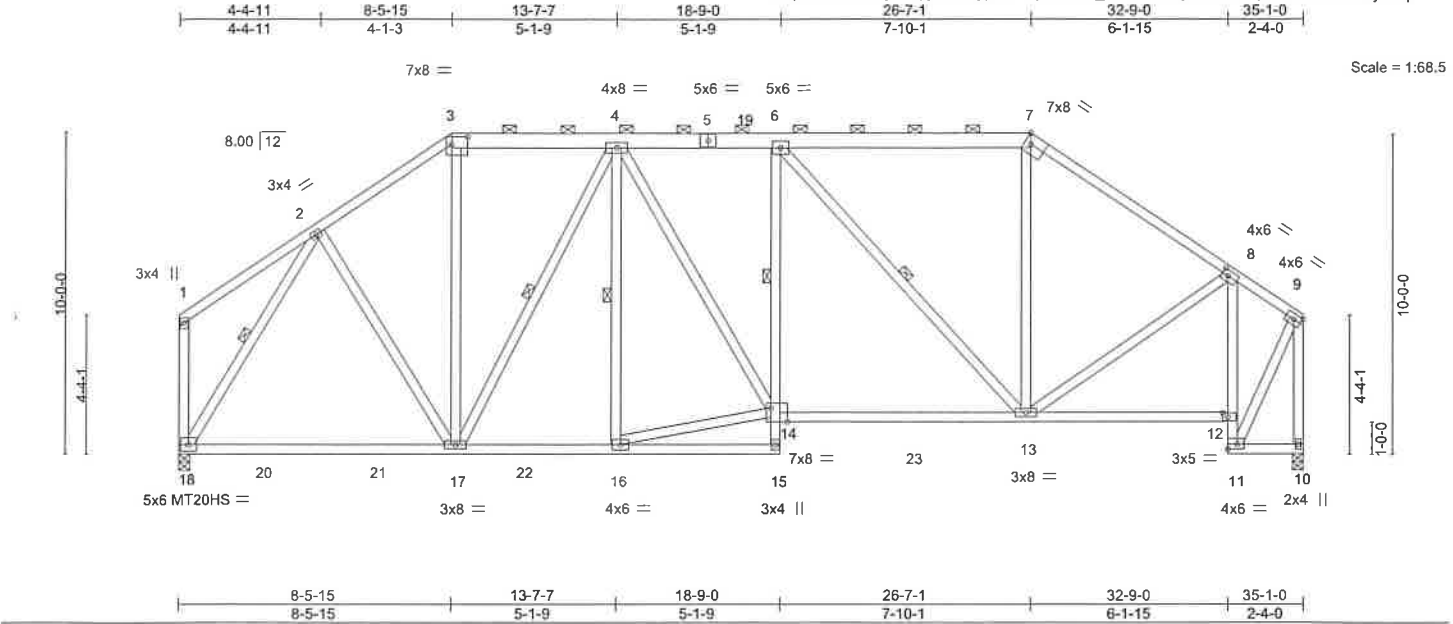


Plate Offsets (X,Y)-- [3:0-6-0,0-2-14], [8:0-2-4,0-2-0], [11:Edge,0-1-12], [12:0-2-0,0-1-8], [14:0-6-4,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.16 17-18 >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.54	Vert(CT) -0.28 17-18 >999 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.13 10 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 292 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5,5-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-2 max.): 3-7.
BOT CHORD 2x4 SP No.2 *Except* 6-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16 5-0-4 oc bracing: 11-12.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-14 1 Row at midpt 4-17, 4-16, 6-13, 2-18

REACTIONS. (size) 10=0-4-0, 18=0-4-0
 Max Horz 18=224(LC 6)
 Max Uplift 10=44(LC 11), 18=44(LC 10)
 Max Grav 10=1392(LC 2), 18=1421(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1206/113, 3-4=-968/122, 4-6=-1479/95, 6-7=-1071/130, 7-8=-1375/102,
 8-9=-682/22, 9-10=-1493/55
 BOT CHORD 17-18=-158/788, 16-17=-125/1224, 13-14=-127/1495, 12-13=-56/617, 11-12=-918/70,
 8-12=-883/104
 WEBS 2-17=-52/437, 3-17=0/409, 4-17=-627/122, 14-16=-97/1308, 4-14=-54/518,
 6-13=-702/134, 7-13=0/389, 8-13=-68/568, 2-18=-1337/70, 9-11=-62/1184

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 18.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job DO210811	Truss CT9A	Truss Type Piggyback Base	Qty 4	Ply 1	WALNUT GROVE	147426043
-----------------	---------------	------------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:47 2021 Page 1
ID:qX5h23lzQN2jTlrHpjZGURypZh1-699FV7sb4y66JiKR0Hlv_dMAloDdmmbFNPDuyoezo



7x8 =

4x8 = 5x6 = 5x6 =

Scale = 1:70.0

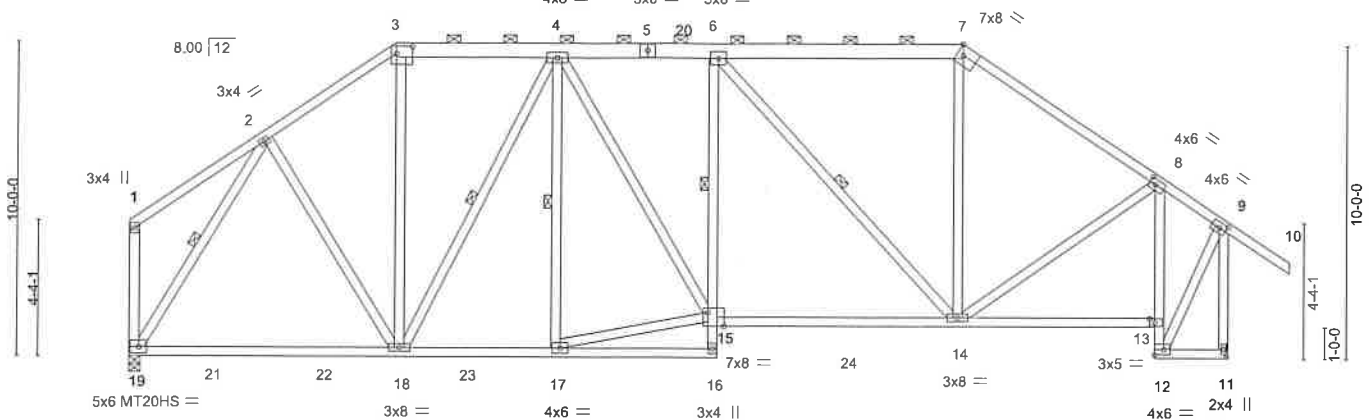


Plate Offsets (X, Y) - [3:0-6-0,0-2-14], [8:0-2-4,0-2-0], [9:0-2-14,0-2-0], [12:Edge,0-2-0], [13:0-2-0,0-1-8], [15:0-6-4,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.16 18-19	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.28 18-19	>999	180	MT20HS	187/143
TCDL 10.0	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.13 11	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-MR						
BCDL 10.0								Weight: 295 lb	FT = 6%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-5,5-7: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-16: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-5 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 5-2-0 oc bracing. Except:
1 Row at midpt 6-15
WEBS 1 Row at midpt 4-18, 4-17, 6-14, 2-19

REACTIONS.

(size) 11=Mechanical, 19=0-4-0
Max Horz 19=241(LC 6)
Max Uplift 11=-69(LC 11), 19=-45(LC 10)
Max Grav 11=1516(LC 2), 19=1418(LC 3)

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

TOP CHORD 2-3=-1203/115, 3-4=-966/123, 4-6=-1473/96, 6-7=-1060/134, 7-8=-1362/106,
8-9=-676/42, 9-11=-1618/78
BOT CHORD 18-19=-148/799, 17-18=-117/1220, 14-15=-117/1489, 13-14=-33/591, 12-13=-894/40,
8-13=-857/74
WEBS 2-18=-53/436, 3-18=0/407, 4-18=-623/124, 15-17=-88/1305, 4-15=-49/513,
6-14=-703/132, 7-14=0/386, 8-14=-62/580, 2-19=-1333/72, 9-12=-27/1157

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
- 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 19.
- 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 MI-7473 rev. 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 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 ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MITEK AFFILIATE
818 Soundside Road
Edenton, NC 27932

Job DO210811	Truss CT9B	Truss Type Piggyback Base	Qty 1	Ply 1	WALNUT GROVE	147426044
-----------------	---------------	------------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:48 2021 Page 1

ID:qX5h23lzQN2TirHppZGURypZh1-aLjdjTIDrGEzxsuda_G8RB9dq1fXy58vqv7ymKyoezn



Scale = 1:70.0

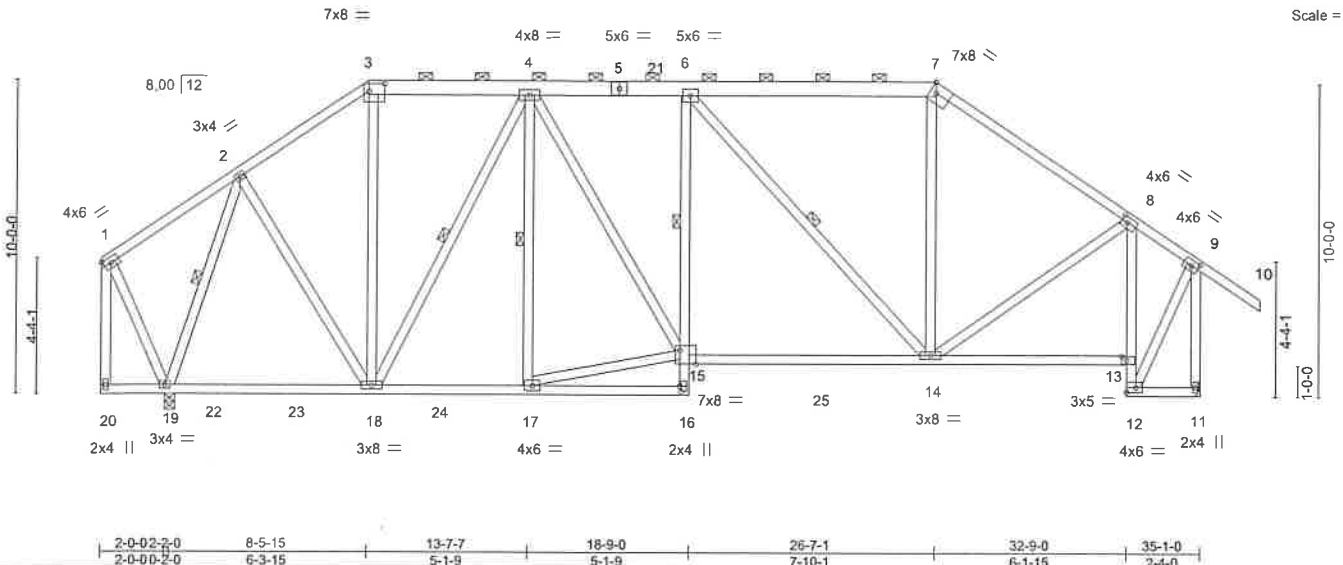


Plate Offsets (X,Y) - [3:0-6-0,0-2-14], [8:0-2-4,0-2-0], [9:0-2-14,0-2-0], [12:Edge,0-2-0], [13:0-2-0,0-1-8], [15:0-6-4,Edge], [16:0-2-0,0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.12	14-15	>999	240	MT20	244/190
Snow (Pf)	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.23	14-15	>999	180		
TCDL	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.11	11	n/a	n/a		
BCLL	Code	IBC2015/TPI2014	Matrix-MR								
BCDL										Weight: 301 lb	FT = 6%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-5,5-7: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-16: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 5-5-5 oc bracing. Except:
1 Row at midpt 6-15
WEBS 1 Row at midpt 2-19, 4-18, 4-17, 6-14

REACTIONS.

(size) 11=Mechanical, 19=0-4-0
Max Horz 19=241(LC 6)
Max Uplift 11=-72(LC 11), 19=-48(LC 10)
Max Grav 11=1433(LC 2), 19=1477(LC 3)

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

TOP CHORD 2-3=-917/110, 3-4=-722/119, 4-6=-1308/102, 6-7=-978/137, 7-8=-1264/110,
8-9=-634/44, 9-11=-1527/81
BOT CHORD 18-19=-155/477, 17-18=-122/1033, 14-15=-123/1323, 13-14=-34/555, 12-13=-837/43,
8-13=-798/76
WEBS 2-19=-1328/81, 2-18=-50/626, 3-18=-3/280, 4-18=-709/109, 15-17=-91/1130,
4-15=-48/549, 6-14=-585/136, 7-14=0/345, 8-14=64/523, 9-12=-30/1085

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) 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) 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) 11, 19.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 6/19/2020 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

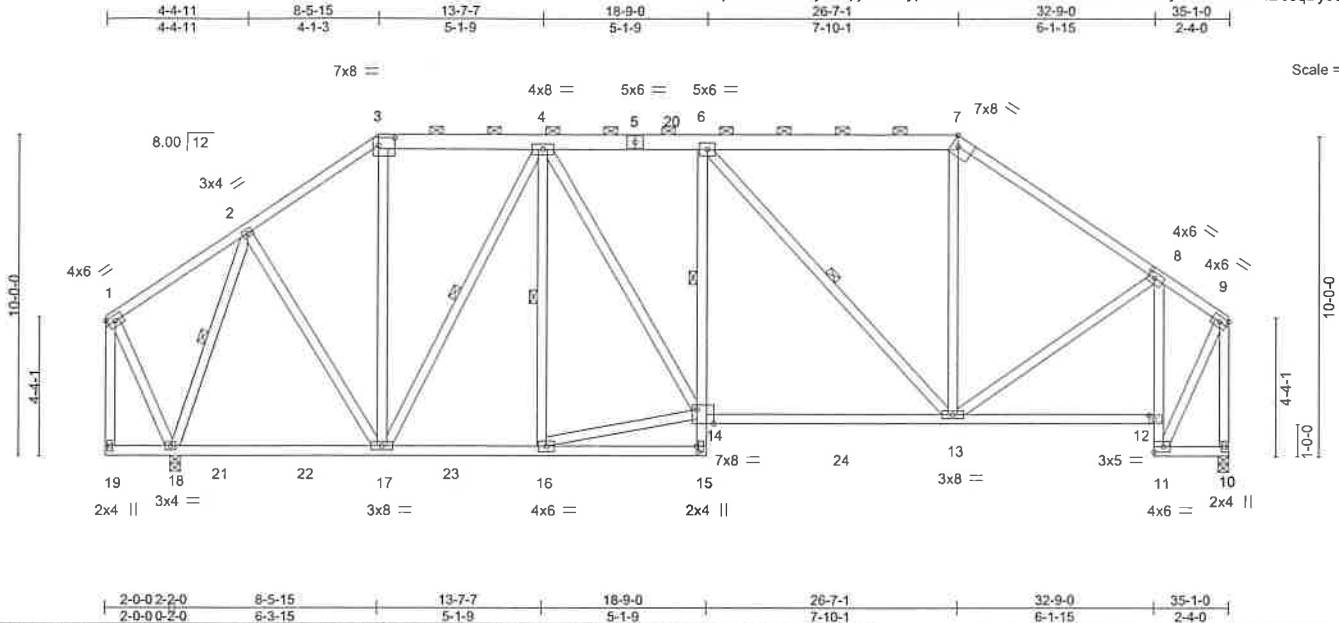


818 Soundside Road
Edenton, NC 27932

Job DO210811	Truss CT9C	Truss Type Piggyback Base	Qty 2	Ply 1	WALNUT GROVE	147426045
-----------------	---------------	------------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:50 2021 Page 1
ID:qX5h23lzQN2jTlRHpjZGURypZh1-XkrN89uUNUhAA20hPlcWcFyQrK7Q?cCHDC3qDyoezl



Scale = 1:68.5

Plate Offsets (X,Y) -	[3:0-6-0,0-2-14], [8:0-2-8,0-2-0], [11:Edge,0-2-0], [12:0-2-0,0-1-8], [14:0-6-4,Edge], [15:0-2-0,0-0-8]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15		TC 0.53	Vert(LL) -0.12	13-14	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15		BC 0.70	Vert(CT) -0.23	13-14	>999	180		
TCDL 10.0	Rep Stress Incr YES		WB 0.47	Horz(CT) 0.12	10	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-MR						
BCDL 10.0								Weight: 297 lb	FT = 6%

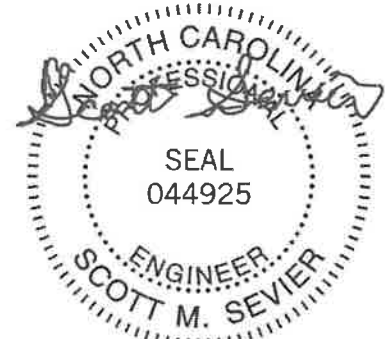
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5,5-7: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-15: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16
5-3-8 oc bracing: 11-12.
1 Row at midpt 6-14
WEBS 1 Row at midpt 2-18, 4-17, 4-16, 6-13

REACTIONS. (size) 10=0-4-0, 18=0-4-0
Max Horz 18=224(LC 8)
Max Uplift 10=47(LC 11), 18=46(LC 10)
Max Grav 10=1308(LC 2), 18=1480(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=919/109, 3-4=724/118, 4-6=-1314/102, 6-7=-989/134, 7-8=-1277/105,
8-9=641/25, 9-10=-1402/58
BOT CHORD 17-18=-166/465, 16-17=-131/1036, 13-14=-132/1329, 12-13=-57/580, 11-12=-861/72,
8-12=824/107
WEBS 2-18=-1332/79, 2-17=-49/628, 3-17=-2/281, 4-17=-713/107, 14-16=-100/1133,
4-14=-53/554, 6-13=-584/138, 7-13=0/348, 8-13=-70/512, 9-11=-65/1112

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 18.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 13, 2021

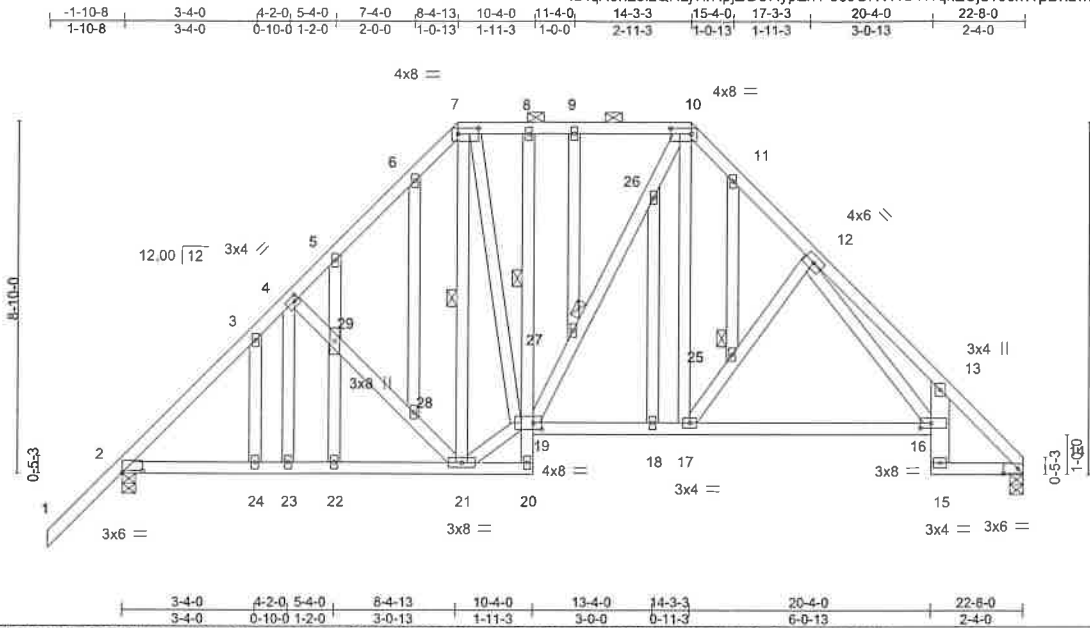
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MITEK AFFILIATE
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426046
DO210811	CT16	ROOF SPECIAL	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:13 2021 Page 1
 ID:qX5h23lzQN2jTlrHqjZGURypZh1-6c6ONVRG4WqxEUju188xWpDhawilGHlmmz8c1syof_K



Scale = 1:55,1

Plate Offsets (X,Y) - [2:0-6-0,0-0-10], [4:0-1-4,0-1-8], [7:0-6-4,0-1-12], [10:0-6-4,0-1-12], [14:0-4-6,0-1-8], [16:0-3-4,0-1-8], [19:0-2-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.35	Vert(LL)	-0.07 16-17	>999	240	MT20	244/190
Snow (PF) 15.0	Plate Grip DOL 1.15	BC 0.68	Vert(CT)	-0.16 16-17	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.39	Horz(CT)	0.09 14	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IBC2015/TP12014						Weight: 223 lb	FT = 6%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 8-20: 2x4 SP No.3, 13-15: 2x6 SP No.2
 WEBS 2x4 SP No.3

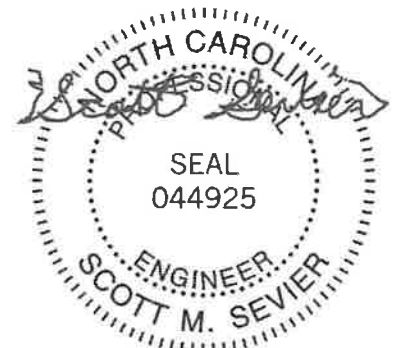
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-11-7 oc purlins, except
 2-0-0 oc purlins (6-0-0 max.): 7-10.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 19-20.
 1 Row at midpt 8-19
 1 Row at midpt 7-21
 JOINTS 1 Brace at Jt(s): 25, 27

REACTIONS. (size) 14=0-4-0, 2=0-4-0
 Max Horz 2=188(LC 7)
 Max Uplift 2=-20(LC 10)
 Max Grav 14=902(LC 2), 2=1024(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=1106/0, 3-4=1013/40, 4-5=-848/7, 5-6=-838/55, 6-7=-777/80, 10-11=-900/54,
 11-12=-990/33, 12-13=-1994/31, 13-14=-1230/0, 7-8=-664/70, 8-9=-669/70,
 9-10=-669/70
 BOT CHORD 2-24=-44/726, 23-24=-44/726, 22-23=-44/726, 21-22=-44/726, 18-19=0/655,
 17-18=0/655, 16-17=0/840, 13-16=-541/79, 14-15=0/786
 WEBS 10-17=-29/432, 17-25=-328/131, 12-25=-321/118, 12-16=-28/934, 28-29=-252/108,
 21-28=-270/122, 19-21=-21/620, 7-19=0/466

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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 ANSITPH 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
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426047
DO210811	FL1G	Flat Girder	1	3		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:53 2021 Page 1
ID:qX5h23lzQNz2TlrHjZGURypZh1-xJWWmBwMfosG1dnaMXsJ8FtRO2KhdG9ezBrjRYoezi



Scale = 1:25.7

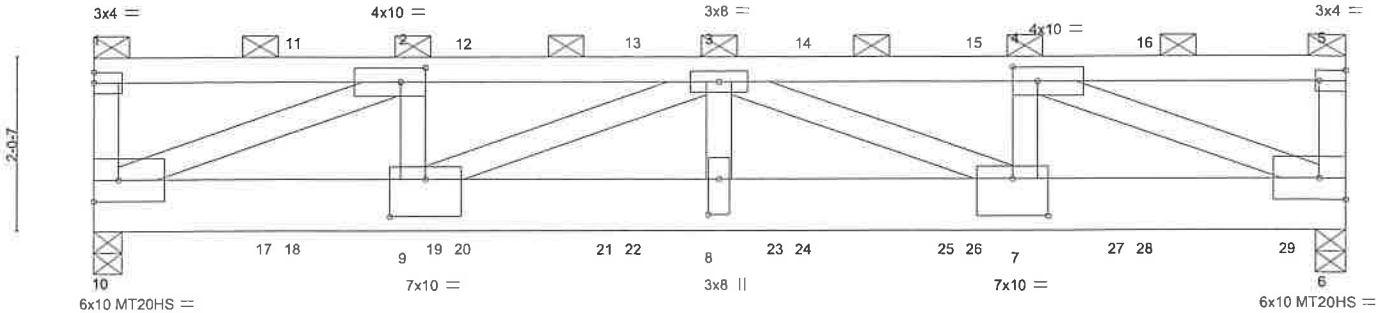


Plate Offsets (X,Y) - [2:0-3-8,0-2-0], [4:0-3-8,0-2-0], [5:Edge,0-1-8], [7:0-5-0,0-5-4], [8:0-5-0,0-1-8], [9:0-5-0,0-5-4]												
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.12	8	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.23	8-9	>751	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MR								
BCDL	10.0										Weight: 289 lb	FT = 6%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP No.1D
WEBS 2x4 SP No.3 *Except*
1-10,5-6: 2x4 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (5-10-1 max.): 1-5, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 6=0-4-0
Max Horz 10=-45(LC 26)
Max Uplift 10=-392(LC 6), 6=-398(LC 7)
Max Grav 10=6581(LC 2), 6=7002(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-286/46, 1-2=-779/66, 2-3=-12319/726, 3-4=-11130/631, 4-5=-746/62,
5-6=-269/45
BOT CHORD 9-10=-745/12319, 8-9=-938/16088, 7-8=-938/16088, 6-7=-638/11130
WEBS 2-10=-12617/730, 2-9=-216/4986, 3-9=-4121/224, 3-8=-117/3439, 3-7=-5421/328,
4-7=-162/4442, 4-6=-11353/629

- NOTES-**
- 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 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=392, 6=398.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 13, 2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426047
DO210811	FL1G	Flat Girder	1	3	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:53 2021 Page 2
 ID:qX5h23lzQN2jTlrHjzGURypZh1-xJWWmBwMfosG1dnaMXsJ8FtRO2KhdG9ezBrjRYoezi

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 35 lb up at 2-4-12, 66 lb down and 35 lb up at 4-4-12, 66 lb down and 35 lb up at 6-4-12, 66 lb down and 35 lb up at 8-4-12, and 66 lb down and 35 lb up at 10-4-12, and 66 lb down and 35 lb up at 12-4-12 on top chord, and 1545 lb down and 109 lb up at 2-0-12, 49 lb down at 2-4-12, 1545 lb down and 109 lb up at 4-0-12, 49 lb down at 4-4-12, 1545 lb down and 109 lb up at 4-5-4, 1496 lb down and 89 lb up at 6-0-12, 49 lb down at 6-4-12, 1496 lb down and 89 lb up at 8-0-12, 49 lb down at 8-4-12, 1496 lb down and 89 lb up at 10-0-12, 49 lb down at 10-4-12, 1496 lb down and 89 lb up at 12-0-12, and 49 lb down at 12-4-12, and 1418 lb down and 87 lb up at 14-0-12 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: 1-5=-50, 6-10=-20

Concentrated Loads (lb)

Vert: 11=-66(B) 12=-66(B) 13=-66(B) 14=-66(B) 15=-66(B) 16=-66(B) 17=-1279(F) 18=-37(B) 19=-1279(F) 20=-1316(F=-1279, B=-37) 21=-1302(F) 22=-37(B) 23=-1302(F) 24=-37(B) 25=-1302(F) 26=-37(B) 27=-1302(F) 28=-37(B) 29=-1234(F)

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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



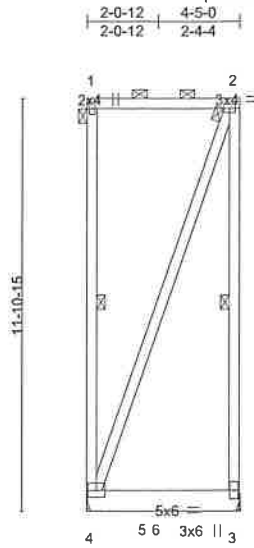
818 Soundside Road
 Edenon, NC 27932

Job DO210811	Truss FL2G	Truss Type Flat Girder	Qty 1	Ply 2	WALNUT GROVE	147426048
-----------------	---------------	---------------------------	----------	----------	--------------	-----------

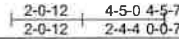
Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:54 2021 Page 1

ID:qX5h23lzQN2jTlrHpjZGURypZh1-PV4uzWx_Q6_7fnMnwFNYhSPY1SoHMsvoCraHz_yoezh



Scale: 3/16"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.94	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.01 3-4 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Vert(CT) -0.02 3-4 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 141 lb	FT = 6%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-4: 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 1-4, 2-3

REACTIONS.

(size) 4=Mechanical, 3=Mechanical
 Max Horz 4=-324(LC 6)
 Max Uplift 4=-529(LC 6), 3=-639(LC 7)
 Max Grav 4=819(LC 41), 3=1457(LC 40)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=448/489
 WEBS 2-4=479/479

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=529, 3=639.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 728 lb down and 131 lb up at 2-0-12, and 738 lb down and 123 lb up at 4-3-4 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



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426048
DO210811	FL2G	Flat Girder	1	2	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:54 2021 Page 2
 ID:qX5h23lzQN2jTlRHpjZGURypZh1-PV4uzWx_Q6_7fnMnwFNyhSPY1SoHMsv0CraHz_yoezh

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 3-4=-20, 1-2=-50

Concentrated Loads (lb)

Vert: 3=-621(B) 6=-613(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mill-7473 rev. 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 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/TPI1 Quality Criteria, DSB-69 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426049
DO210811	PB1	Piggyback	16	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:55 2021 Page 1
ID:qX5h23lZQNzTlrHpjZGURypZh1-lheGBsycBQ6_GxxzUyunDgyw4s8q5NAxRVKqVQyoez

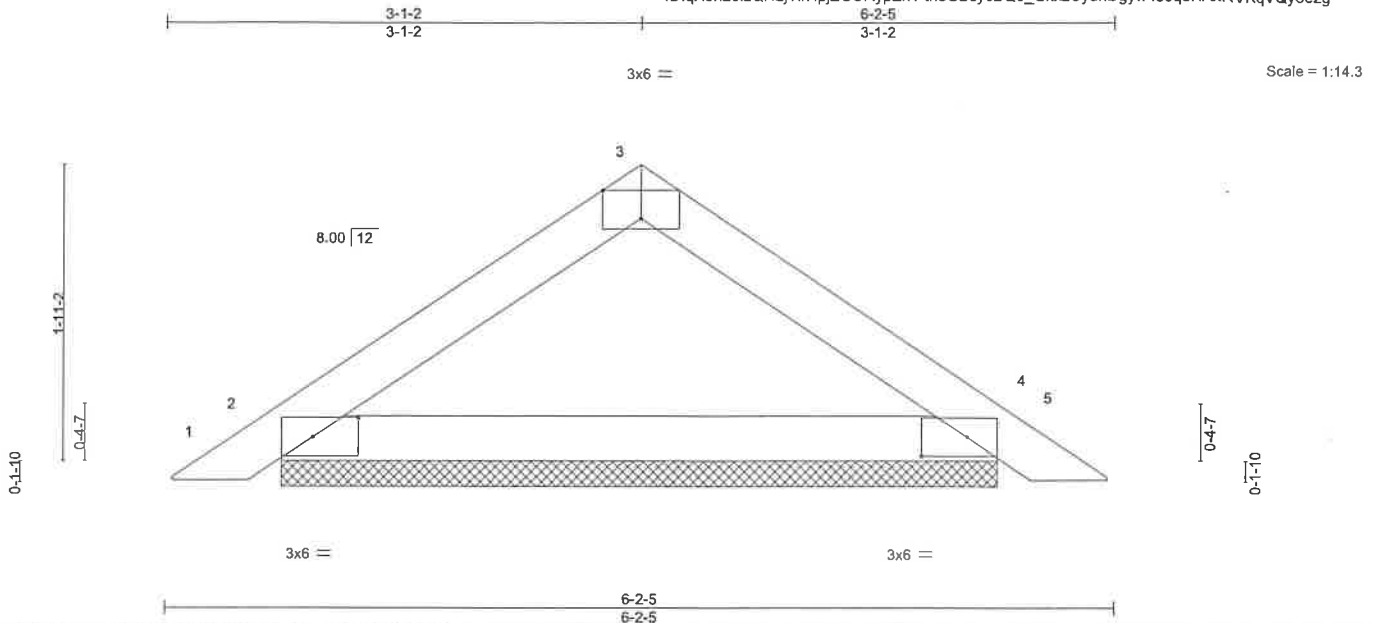


Plate Offsets (X,Y) -		[2:0-3-9,0-1-8], [3:0-3-0,Edge], [4:0-3-9,0-1-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf)	15.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code IBC2015/TPI2014	
BCDL	10.0		
		CSI.	
		TC	0.09
		BC	0.28
		WB	0.00
		Matrix-P	
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	0.00 5 n/r 120
		Vert(CT)	0.00 5 n/r 120
		Horz(CT)	0.00 4 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 18 lb	FT = 6%

LUMBER-

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

BRACING-

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

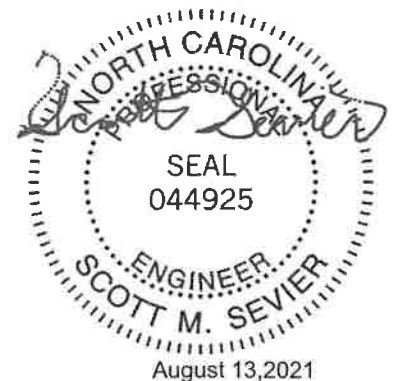
REACTIONS.

(size) 2=4-8-1, 4=4-8-1
Max Horz 2=-36(LC 8)
Max Uplift 2=-10(LC 10), 4=-10(LC 11)
Max Grav 2=215(LC 2), 4=215(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=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
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 6/19/2020 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426050
DO210811	PB1GE	Piggyback	2	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:56 2021 Page 1
 ID:qX5h23lzQN2jTlrHjzGURypZh1-LuClOCzEjEru5W92fP0mtU5qGT3qqQ5f93N2lyoezf

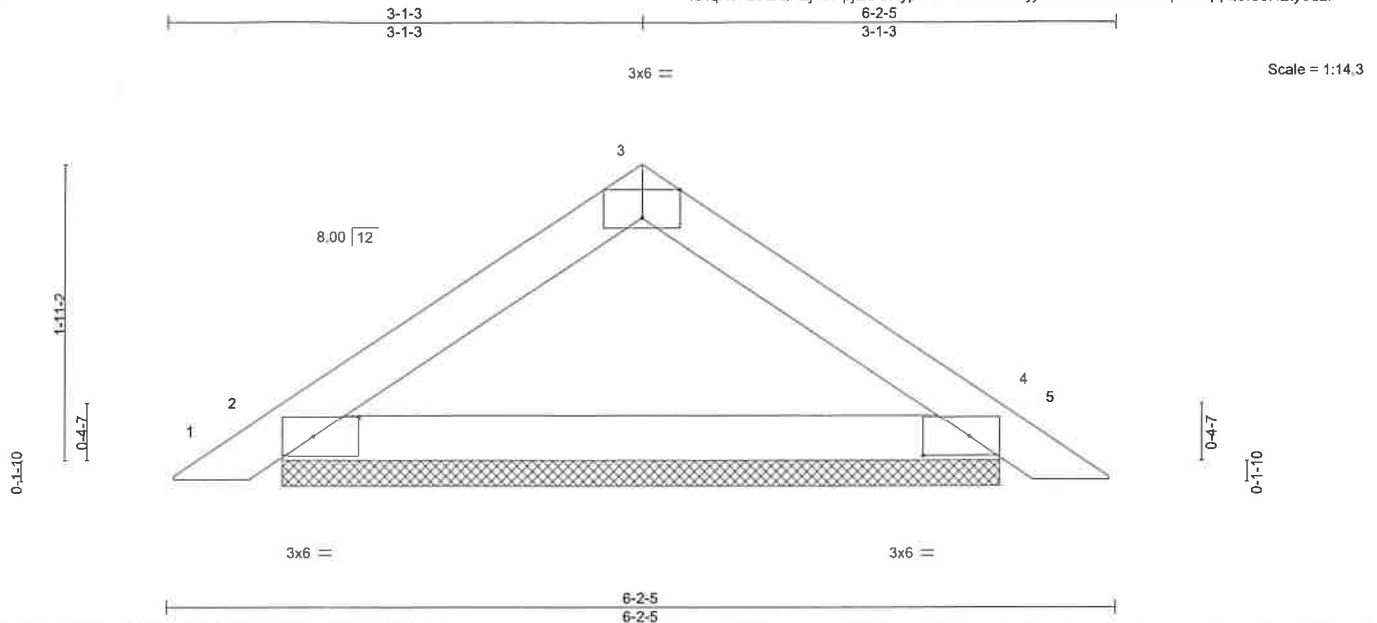


Plate Offsets (X,Y) -- [2:0-3-9,0-1-8], [3:0-3-0,Edge], [4:0-3-9,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	TC	Vert(LL)	0.00	5	n/r	120	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	BC	Vert(CT)	0.00	5	n/r	120		
TCDL	10.0	Rep Stress Incr	WB	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code IBC2015/TPI2014	Matrix-P						Weight: 18 lb	FT = 6%
BCDL	10.0									

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

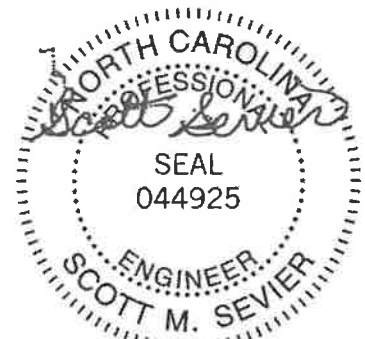
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-8-2, 4=4-8-2
 Max Horz 2=36(LC 9)
 Max Uplift 2=-10(LC 10), 4=-10(LC 11)
 Max Grav 2=215(LC 2), 4=215(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) 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 100 lb uplift at joint(s) 2, 4.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

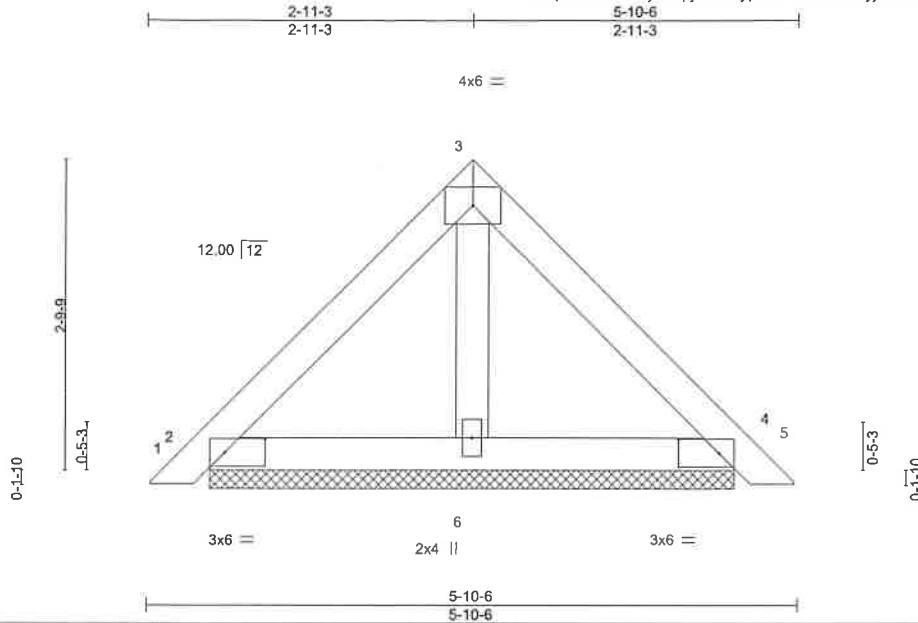


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	
DO210811	PB2	PIGGYBACK	16	1		47426051

Truss Builders, Inc., Morrisville, NC - 27560,

8,430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:56 2021 Page 1
ID:qX5h23lzQN2TTrHppZGURypZh1-LuCiOCzEyJEru5W92IP0mtU5iGXTqq75f93N2tyoezf



Scale = 1:19.8

Plate Offsets (X,Y)-- [2:0-4-6,0-1-8], [4:0-4-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (oc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	Vert(LL)	0.00	5	n/r	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	0.00	5	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 22 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=4-8-12, 4=4-8-12, 6=4-8-12
Max Horz 2=52(LC 8)
Max Uplift 2=18(LC 11), 4=-21(LC 11)
Max Grav 2=136(LC 2), 4=136(LC 2), 6=147(LC 5)

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) 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 100 lb uplift at joint(s) 2, 4.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

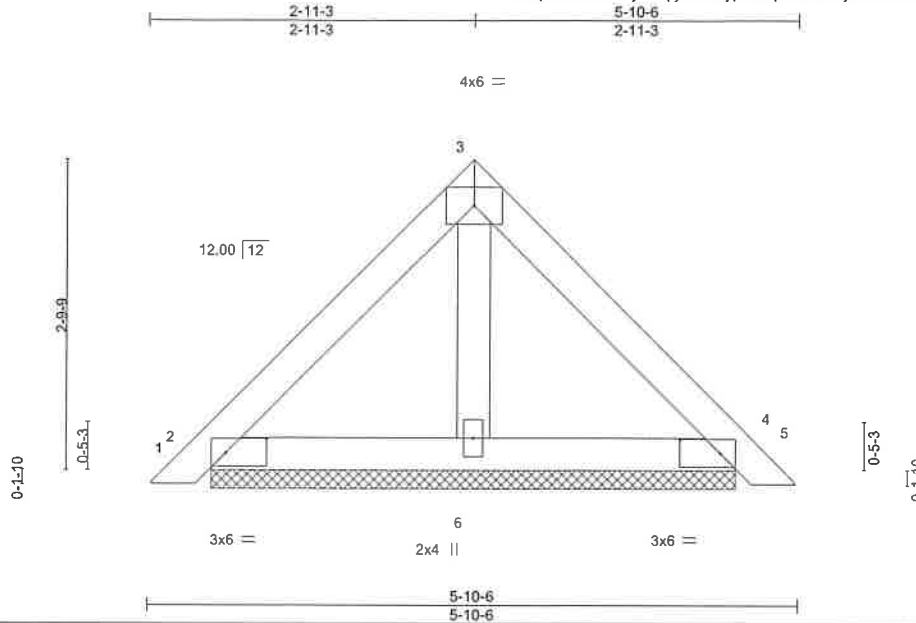


818 Soundside Road
Edenton, NC 27932

Job DO210811	Truss PB2GE	Truss Type Piggyback	Qty 1	Ply 1	WALNUT GROVE	147426052
-----------------	----------------	-------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:57 2021 Page 1
ID:qX5h23lzQN2jTlrHqjZGURypZh1-p4m1cYztj1NhWE4MbNwFI51GSftzGNEuppxaJyoeze



Scale = 1:19.8

Plate Offsets (X,Y) - [2:0-4-6,0-1-8], [4:0-4-6,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (oc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	0.00	5	n/r	120	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	0.00	5	n/r	120		
TCDL 10.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-P							
BCDL 10.0										
								Weight: 22 lb	FT = 6%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=4-8-12, 4=4-8-12, 6=4-8-12
Max Horz 2=-52(LC 8)
Max Uplift 2=-18(LC 11), 4=-21(LC 11)
Max Grav 2=136(LC 2), 4=136(LC 2), 6=147(LC 5)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=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
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

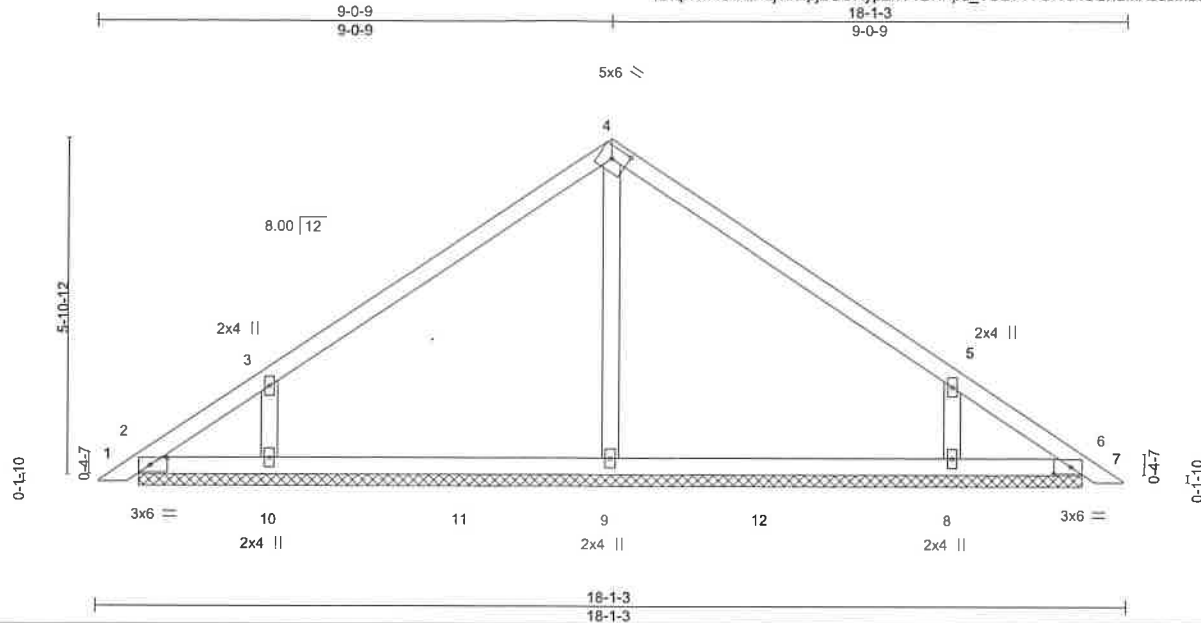
818 Soundside Road
Edenton, NC 27932

Job DO210811	Truss PB3	Truss Type Piggyback	Qty 17	Ply 1	WALNUT GROVE	I47426053
-----------------	--------------	-------------------------	-----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:13:58 2021 Page 1

ID:qX5h23lzQN2jTiHjZGURypZh1-IGKPPu_VULVY7OFY94SUrIaMA39Jh3O7TYU6lyoezd



Scale = 1:38.5

Plate Offsets (X,Y) --	[2:0-3-9,0-1-8], [4:0-3-4,0-2-8], [6:0-3-9,0-1-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.00	7	n/r	120	MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.00	7	n/r	120		
TCDL 10.0	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.00	6	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-R					Weight: 69 lb	FT = 6%
BCDL 10.0								

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

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

REACTIONS. All bearings 16-6-15.
(lb) - Max Horz 2=113(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=109(LC 10), 8=108(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=538(LC 22), 10=428(LC 22), 8=427(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=302/27, 3-10=327/176, 5-8=327/175

- 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) 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, 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, 6 except (jt=lb) 10=109, 8=108.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



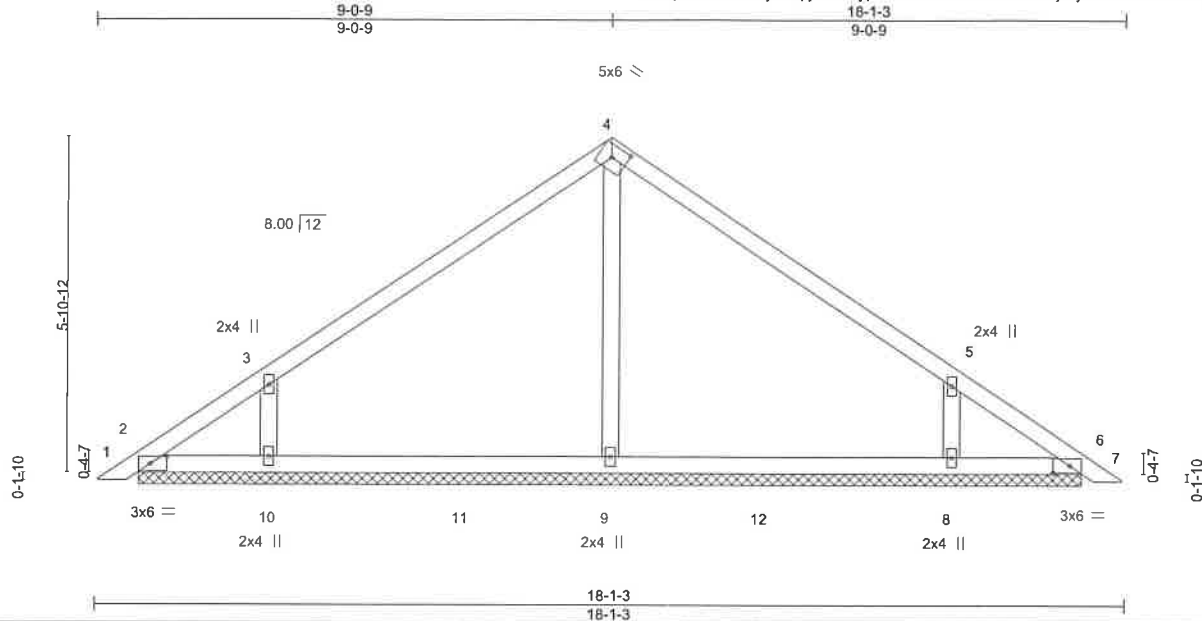
August 13, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
---	--

Job DO210811	Truss PB3GE	Truss Type Piggyback	Qty 2	Ply 1	WALNUT GROVE	147426054
-----------------	----------------	-------------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8 430 s Jun 2 2021 MITek Industries, Inc. Thu Aug 12 08:13:59 2021 Page 1
ID:qX5h23lzQN2jTlrHpjZGURypZh1-mSun1E?7FedPIYEkjozOW6XwTVY18JXM7I2eByoezc



Scale = 1:38.5

Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [4:0-3-4,0-2-8], [6:0-3-9,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.00	7	n/r	120		
TCDL 10.0	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.00	6	n/a	n/a		
BCLL 0.0 *	Code	IBC2015/TPI2014	Matrix-R							
BCDL 10.0										
								Weight: 69 lb	FT = 6%	

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 16-6-15.

(lb) - Max Horz 2=113(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=109(LC 10), 8=108(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=538(LC 22), 10=428(LC 22), 8=427(LC 23)

FORCES.

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

WEBS 4-9=302/27, 3-10=327/176, 5-8=327/175

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=109, 8=108.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 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 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 ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

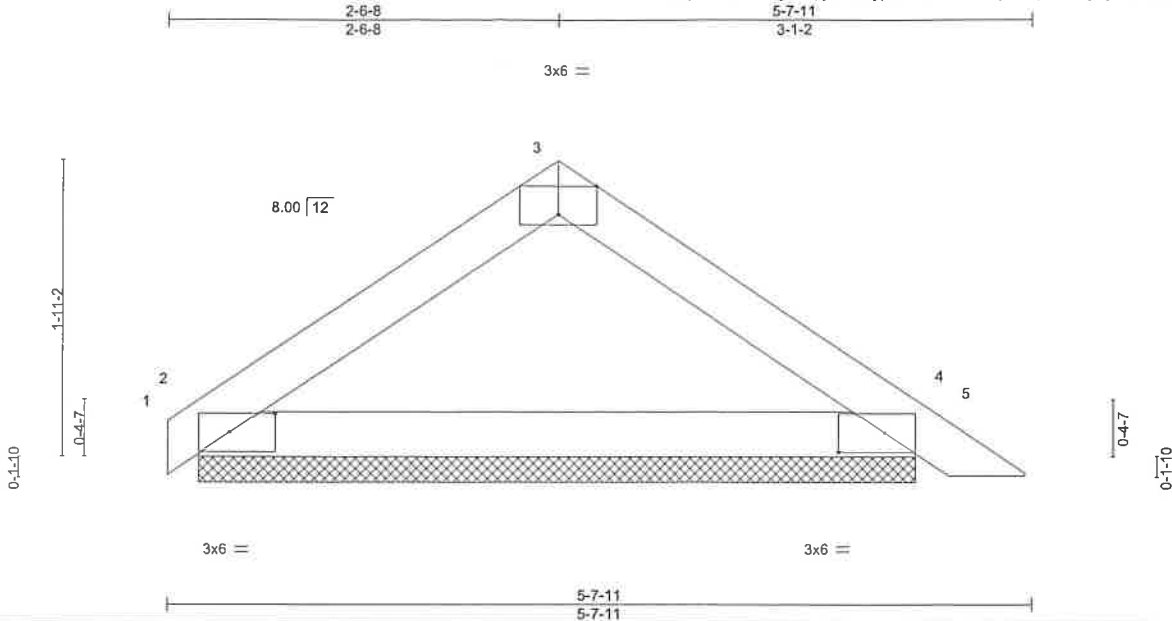
ENGINEERING BY
TRENCO
A MITek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	
DO210811	PB8	Piggyback	2	1		I47426055

Truss Builders, Inc., Morrisville, NC - 27560,

8,430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:14:00 2021 Page 1
ID:qX5h23lzQN2jTlRHpjZGURypZh1-EfR9Ea0l0yIGNipxHVUywjfnlr?mdQgan1bBeyoezb



Scale = 1:14.3

Plate Offsets (X,Y) - [2:0-3-9,0-1-8], [3:0-3-0,Edge], [4:0-3-9,0-1-8]					
LOADING (psf)	SPACING 2-0-0	CSI	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) 0.00 5 n/r 120	MT20	244/190
Snow (PF) 15.0	Lumber DOL 1.15	BC 0.28	Vert(CT) 0.00 5 n/r 120		
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4 n/a n/a		
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-P		Weight: 17 lb	FT = 6%
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-8-1, 4=4-8-1
 Max Horz 2=35(LC 6)
 Max Uplift 2=6(LC 10), 4=10(LC 11)
 Max Grav 2=190(LC 2), 4=216(LC 2)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=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
 - 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



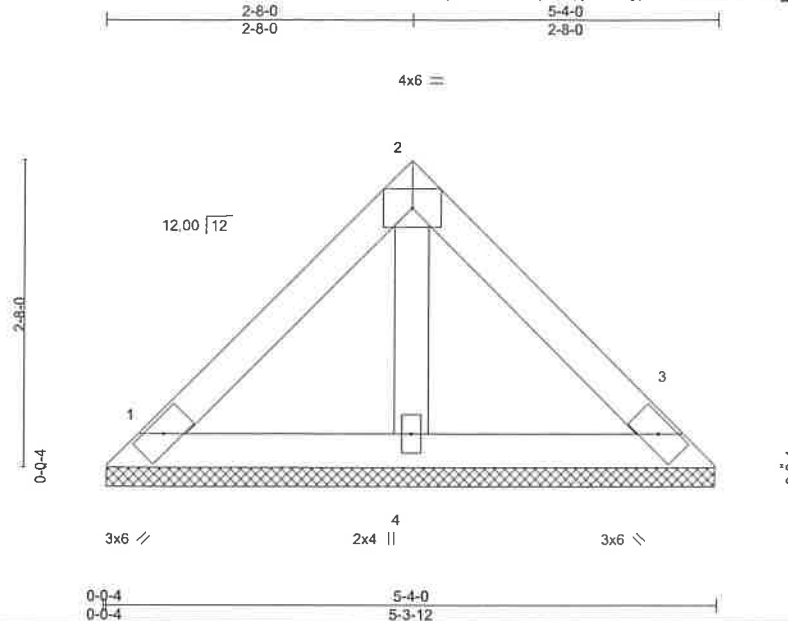
August 13, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Eden, NC 27932</p>
--	---

Job DO210811	Truss V2	Truss Type Valley	Qty 4	Ply 1	WALNUT GROVE	147426057
-----------------	-------------	----------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:14:02 2021 Page 1
ID:qX5h23lzQN2jTlrHjzGURypZh1-A1ZwIF17Y27_c0zJQwWQ78k7BgavEXcz25WIFWyoeezZ



Scale = 1:19.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 21 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

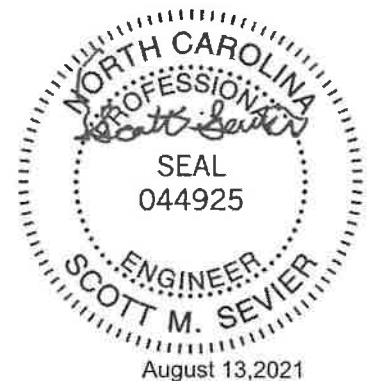
REACTIONS.

(size) 1=5-3-8, 3=5-3-8, 4=5-3-8
Max Horz 1=45(LC 7)
Max Uplift 1=-15(LC 11), 3=-15(LC 11)
Max Grav 1=112(LC 2), 3=112(LC 2), 4=147(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BC DL=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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

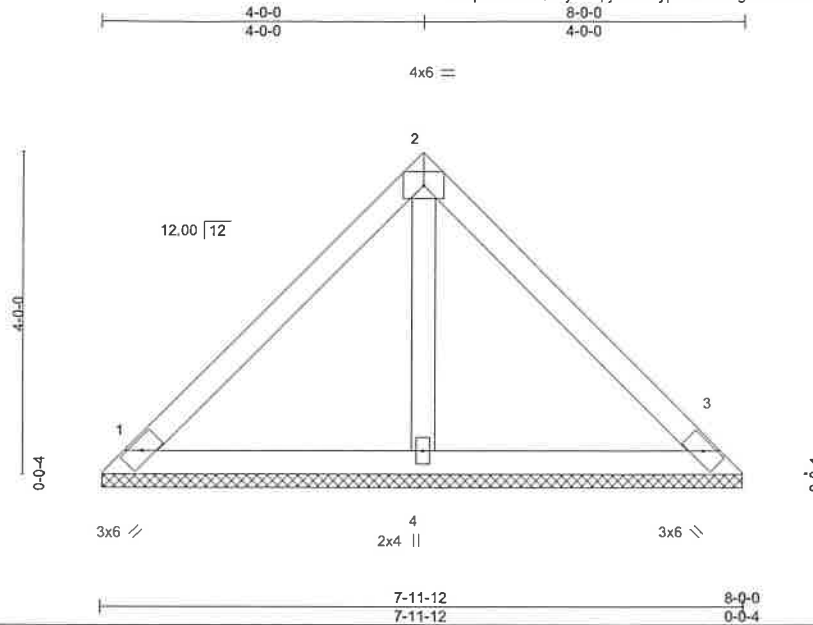


818 Soundside Road
Edenton, NC 27932

Job DO210811	Truss V3	Truss Type Valley	Qty 4	Ply 1	WALNUT GROVE	I47426058
-----------------	-------------	----------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:14:04 2021 Page 1
ID:qX5h23IzQN2jTlrHpjZGURypZh1-6Qhg4x3G4BFirJ7iWLYu5ZqQ8UE7iRIGVP?oKPyoezX



Scale = 1:27.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.26	in (loc) //defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 32 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=7-11-8, 3=7-11-8, 4=7-11-8
Max Horz 1=71(LC 8)
Max Uplift 1=24(LC 11), 3=24(LC 11)
Max Grav 1=176(LC 2), 3=176(LC 2), 4=231(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 100 lb uplift at joint(s) 1, 3.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 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 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

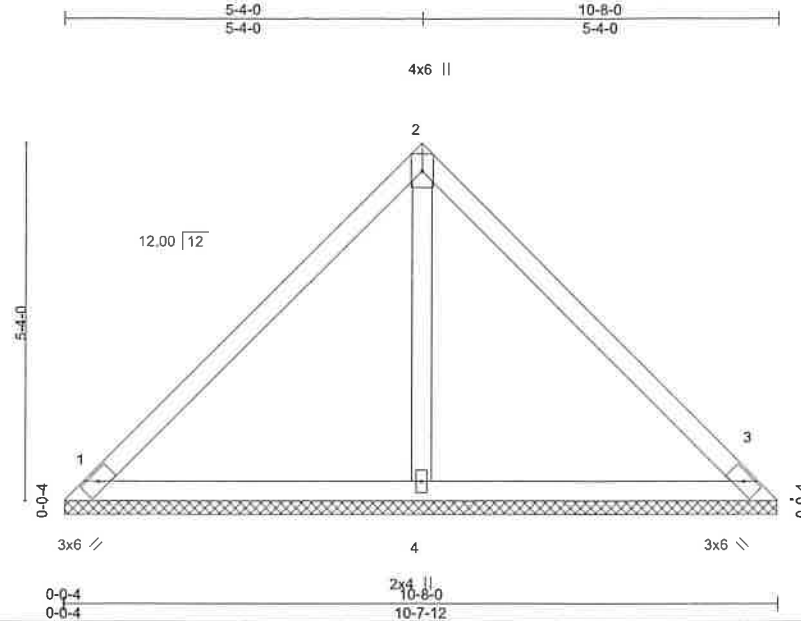
ENGINEERING BY
TRENCO
A MiTek Alliance

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426059
DO210811	V4	Valley	2	1	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:14:05 2021 Page 1
 ID:qX5h23lzQN2jTlHhpjZGURypZh1-acF2HH4urUNZTTiu3247dnMZsuZhr4Pk3ImSryoezW



Scale = 1:32.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	3	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-R						Weight: 44 lb	FT = 6%
BCDL	10.0										

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=10-7-8, 3=10-7-8, 4=10-7-8
 Max Horz 1=-96(LC 6)
 Max Uplift 1=-14(LC 11), 3=-14(LC 11)
 Max Grav 1=215(LC 2), 3=215(LC 2), 4=366(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 100 lb uplift at joint(s) 1, 3.



August 13, 2021

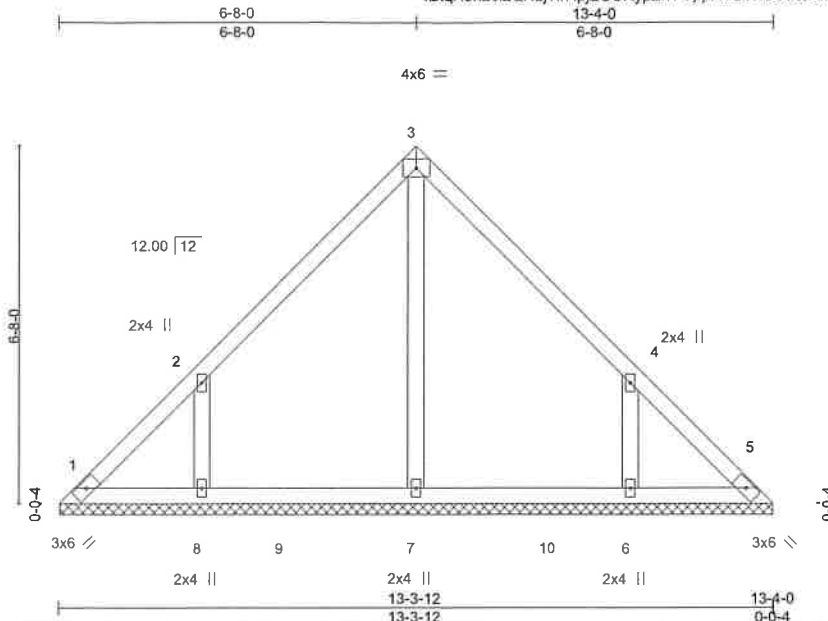
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI1 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
 Edenton, NC 27932

Job DO210811	Truss V5	Truss Type Valley	Qty 2	Ply 1	WALNUT GROVE	147426060
-----------------	-------------	----------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:14:06 2021 Page 1
 ID:qX5h23lzQNz2TirHpiZGURypZh1-3ppRVd4WboVQ5dH4dmbMA_vnplwAAK2ZzjUvOHyoezV



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 62 lb	FT = 6%

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 13-3-8.
 (lb) - Max Horz 1=122(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=135(LC 10), 6=135(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=345(LC 21), 8=333(LC 21), 6=333(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) 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) 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, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=) 8=135, 6=135.



Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	47426061
DO210811	V6	Valley	2	1	Job Reference (optional)	

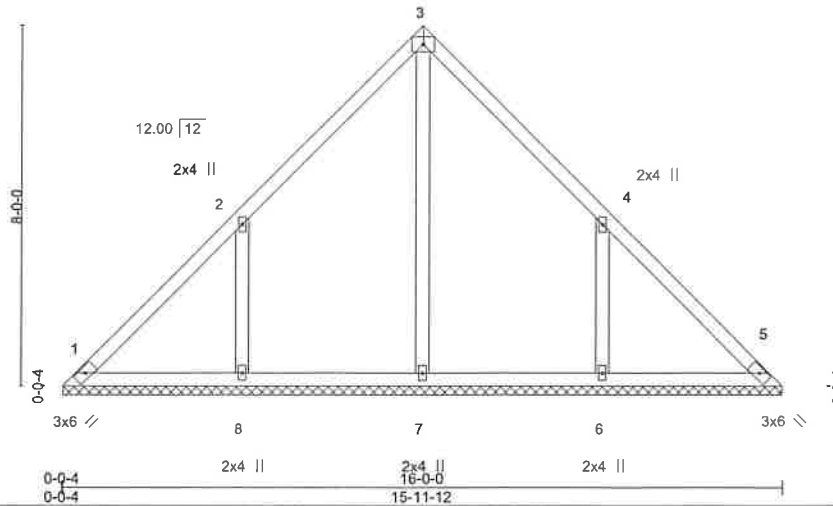
Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:14:07 2021 Page 1
ID:qX5h23lzQN2jTlrHpjZGURypZh1-X?Mpiz58M8dHnrHBT6biCSyUhG2vmXIBNETxkyoezU



4x6 =

Scale = 1:48.7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	5	n/a		
BCLL	0.0	Code IBC2015/TPI2014		Matrix-R						Weight: 77 lb	FT = 6%
BCDL	10.0										

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 15-11-8.
(lb) - Max Horz 1=-148(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-162(LC 10), 6=-162(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=361(LC 24), 8=435(LC 21), 6=435(LC 22)

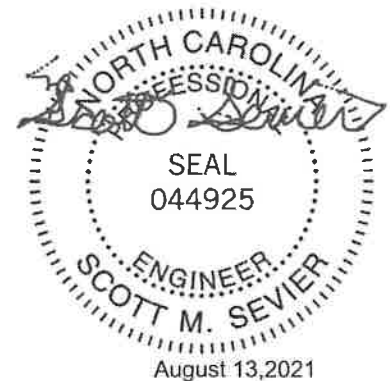
FORCES.

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

WEBS 2-8=-277/198, 4-6=-276/198

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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (t=lb) 8=162, 6=162.



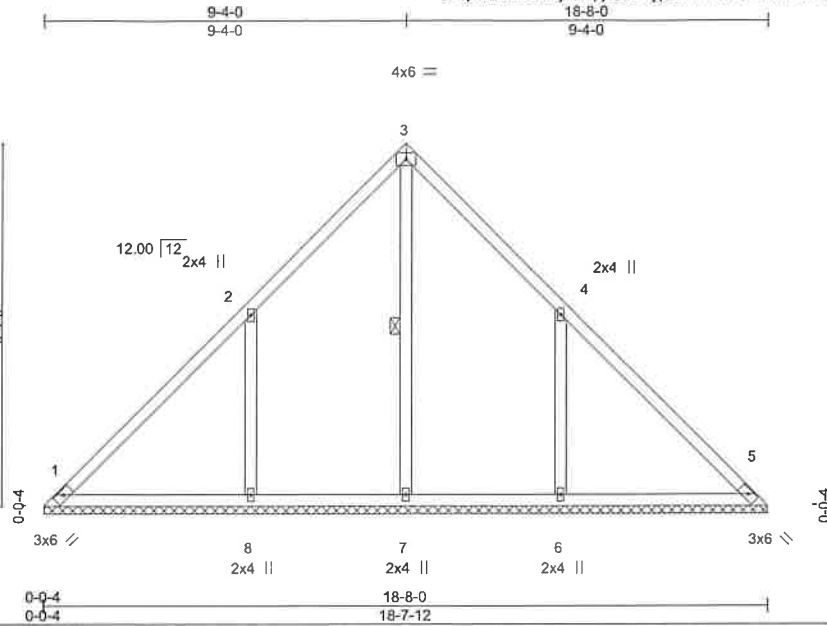
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Alliance
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WALNUT GROVE	147426062
DO210811	V7	Valley	2	1	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MITEK Industries, Inc. Thu Aug 12 08:14:08 2021 Page 1
ID:qX5h23lzQN2jTlrHpjZGURypZh1-7BwBvJ6m7PI8KxQTIBdqFP_5d5bteDusQ0z0TAYoezT



Scale = 1:56.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.16	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 93 lb	FT = 6%

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	WEBS 1 Row at midpt 3-7

REACTIONS. All bearings 18-7-8.
 (lb) - Max Horz 1=-174(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-199(LC 10), 6=-198(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=352(LC 24), 8=523(LC 21), 6=522(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-335/236, 4-6=-334/236

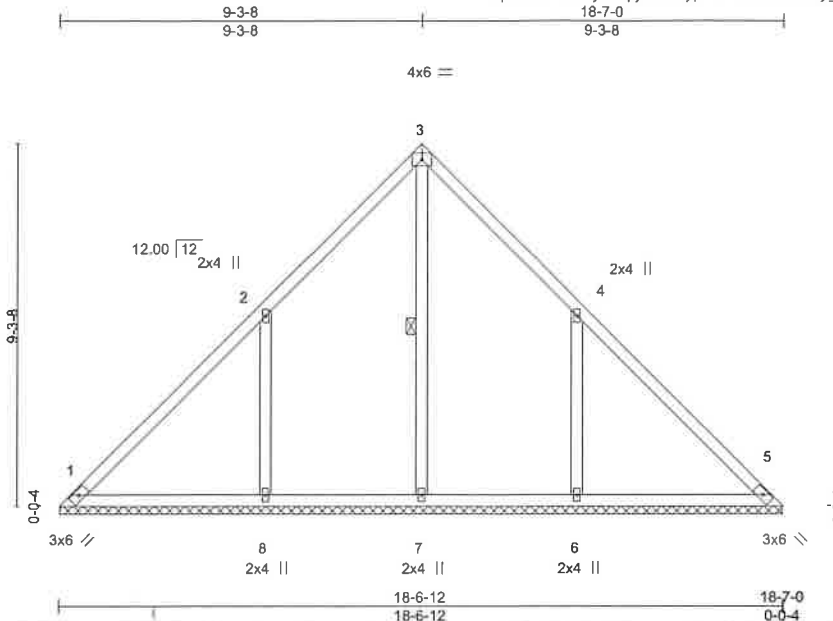
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber 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, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=199, 6=198.



Job DO210811	Truss V8GE	Truss Type Valley	Qty 1	Ply 1	WALNUT GROVE	147426063
-----------------	---------------	----------------------	----------	----------	--------------	-----------

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 12 08:14:09 2021 Page 1
ID:qX5h23lzQN2jTlrHpjZGURypZh1-TOUZ717Oujt_y4?flu83odXGSVw9NgB?igjZ7cyoezS



Scale = 1:56.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.16	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 92 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-7

REACTIONS.

All bearings 18-6-8.
(lb) - Max Horz 1=-173(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-197(LC 10), 6=-197(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=352(LC 24), 8=520(LC 21), 6=519(LC 22)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-333/235, 4-6=-332/234

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=197, 6=197.

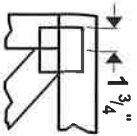


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

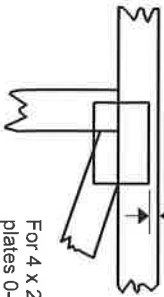
ENGINEERING BY
TRENCO
A MiTek Alliance
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

* Plate location details available in **MITtek 2020 software** or upon request.

PLATE SIZE

4 X 4

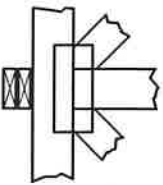
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



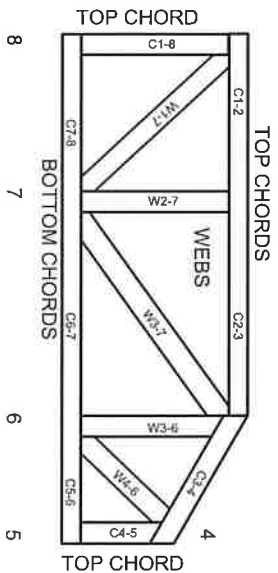
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in feet-in-sixteenths (Drawings not to scale)



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

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

© 2012 MITtek® All Rights Reserved



A MITtek Affiliate

MITtek Engineering Reference Sheet: MIL-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 1 bracing should be considered.
3. Never exceed the design loading shown and never slack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.