



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

RE: 3212507 - MIKE TODD CONST. - BOYD RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: MIKE TODD CONST. Project Name: Boyd Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD HWY 47 South, N/A
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, if there is one, for the building.

Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 12 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T28088544	T01	6/24/22
2	T28088545	T01G	6/24/22
3	T28088546	T02	6/24/22
4	T28088547	T03	6/24/22
5	T28088548	T04	6/24/22
6	T28088549	T05	6/24/22
7	T28088550	T05G	6/24/22
8	T28088551	T06	6/24/22
9	T28088552	T07G	6/24/22
10	T28088553	T08	6/24/22
11	T28088554	T08G	6/24/22
12	T28088555	T09	6/24/22



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc.
under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2023.

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.



Joaquin Velez PE No. 68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

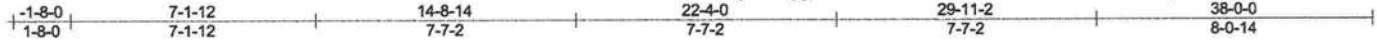
June 24, 2022

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - BOYD RES.	T28088544
3212507	T01	Common	16	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:41 2022 Page 1

ID: 2jmv4WygRhB5xAKERQk2Bz3SFU-PHIN4D3xLubhBWbrgXvQyXqjrcwZ3CzL500Ez3QDI



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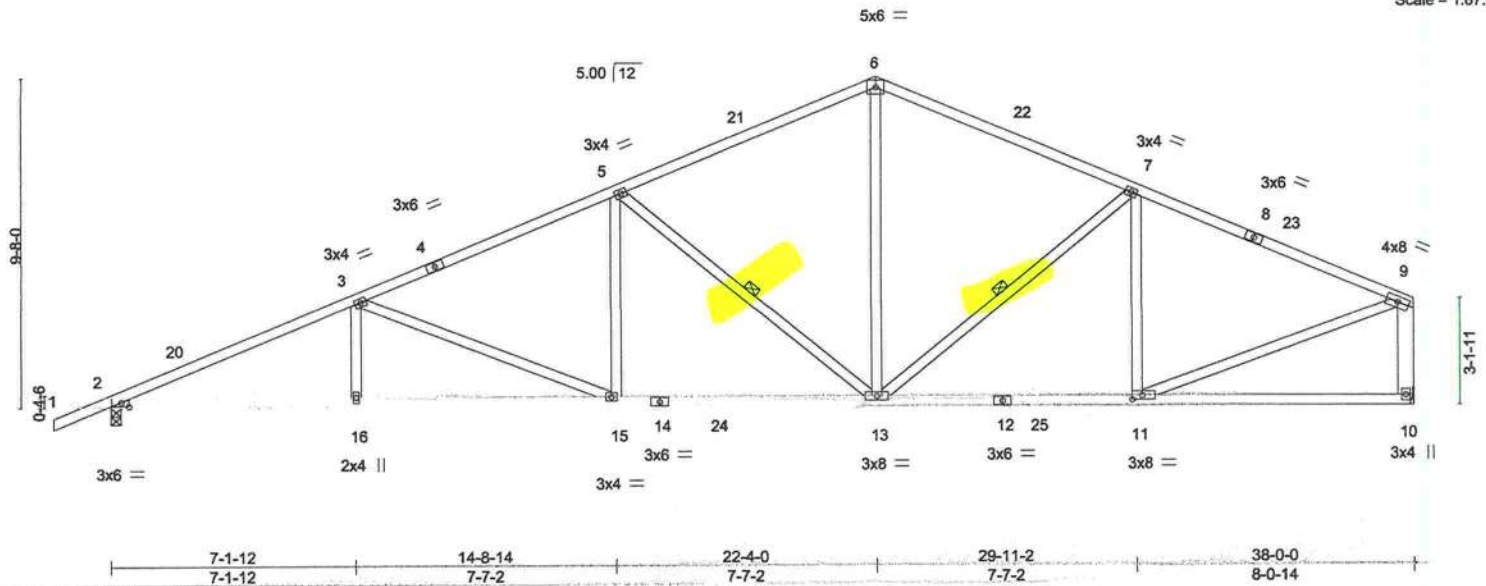


Plate Offsets (X,Y) - [2:0-2-12,0-1-8], [11:0-3-8,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.67	Vert(LL)	-0.24 13-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.98	Vert(CT)	-0.42 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT)	0.12 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 214 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 9-10: 2x6 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-8-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 5-13, 7-13

REACTIONS. (size) 2=0-3-8, 10=Mechanical
 Max Horz 2=215(LC 12)
 Max Uplift 2=348(LC 12), 10=266(LC 13)
 Max Grav 2=1603(LC 2), 10=1542(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=3316/653, 3-5=2563/511, 5-6=1739/400, 6-7=1740/406, 7-9=1829/356, 9-10=1418/306
 BOT CHORD 2-16=735/3015, 15-16=735/3015, 13-15=500/2309, 11-13=270/1633
 WEBS 3-16=0/296, 3-15=763/253, 5-15=46/590, 5-13=1001/327, 6-13=154/985, 7-11=362/145, 9-11=269/1665

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 2-1-10, Interior(1) 2-1-10 to 22-4-0, Exterior(2R) 22-4-0 to 26-1-10, Interior(1) 26-1-10 to 37-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 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 (t=lb) 2=348, 10=266.



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

June 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek

16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - BOYD RES.	T28088545
3212507	T01G	GABLE	2	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Job Reference (optional)
8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:43 2022 Page 1
ID:2jmv4WygRhB5xAfKERQk28z3SFU-Lg?7Vv48WfPRqDoyyu18clGfmXOh?VQfaV46z3QDg

-1-8-0 22-4-0 38-0-0
1-8-0 22-4-0 15-8-0

Scale = 1:69.1

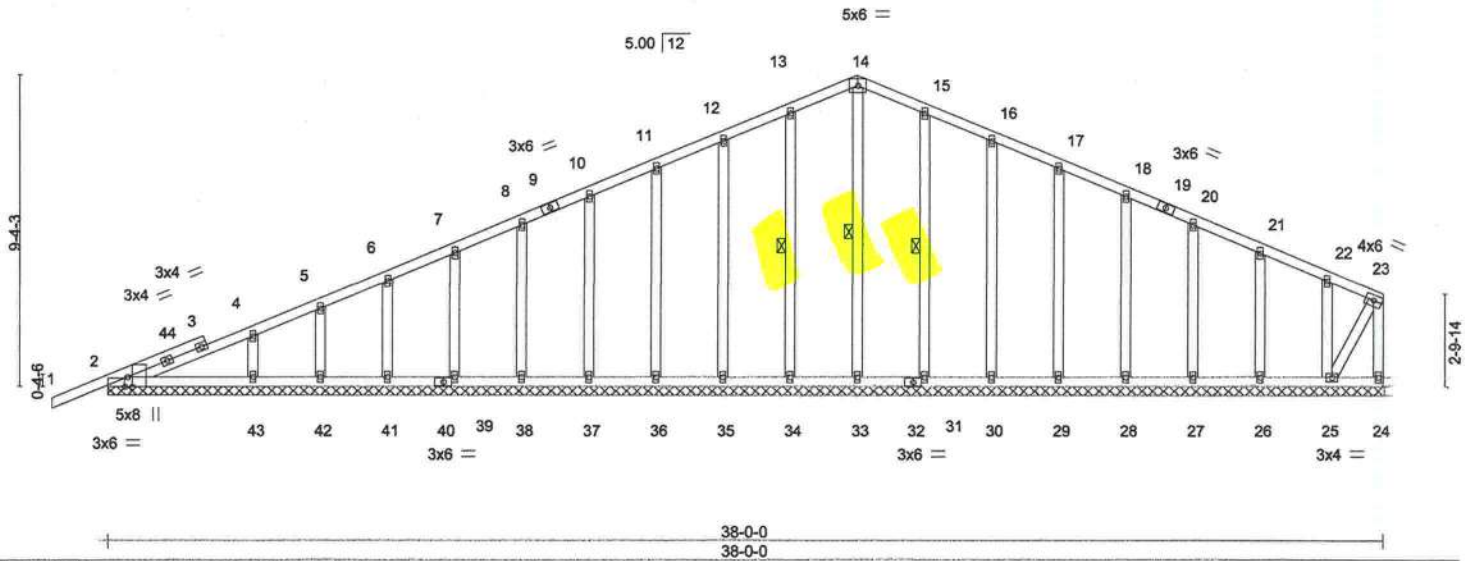


Plate Offsets (X,Y)- [2:0-3-8,Edge], [2:0-1-1,Edge]

LOADING (psf)	SPACING-		CSL	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.16	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	24	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 264 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 14-33, 13-34, 15-31

REACTIONS.

All bearings 38-0-0.
(lb) - Max Horz 2=204(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 36, 37, 38, 39, 41, 42, 43, 31, 30, 29, 28, 27, 26 except 25=155(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 24, 2, 33, 34, 35, 36, 37, 38, 39, 41, 42, 31, 30, 29, 28, 27, 26, 25 except 43=271(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-8-0 to 2-1-10, Exterior(2N) 2-1-10 to 22-4-0, Corner(3R) 22-4-0 to 26-4-0, Exterior(2N) 26-4-0 to 37-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 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, 34, 35, 36, 37, 38, 39, 41, 42, 43, 31, 30, 29, 28, 27, 26 except (jt=lb) 25=155.



Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



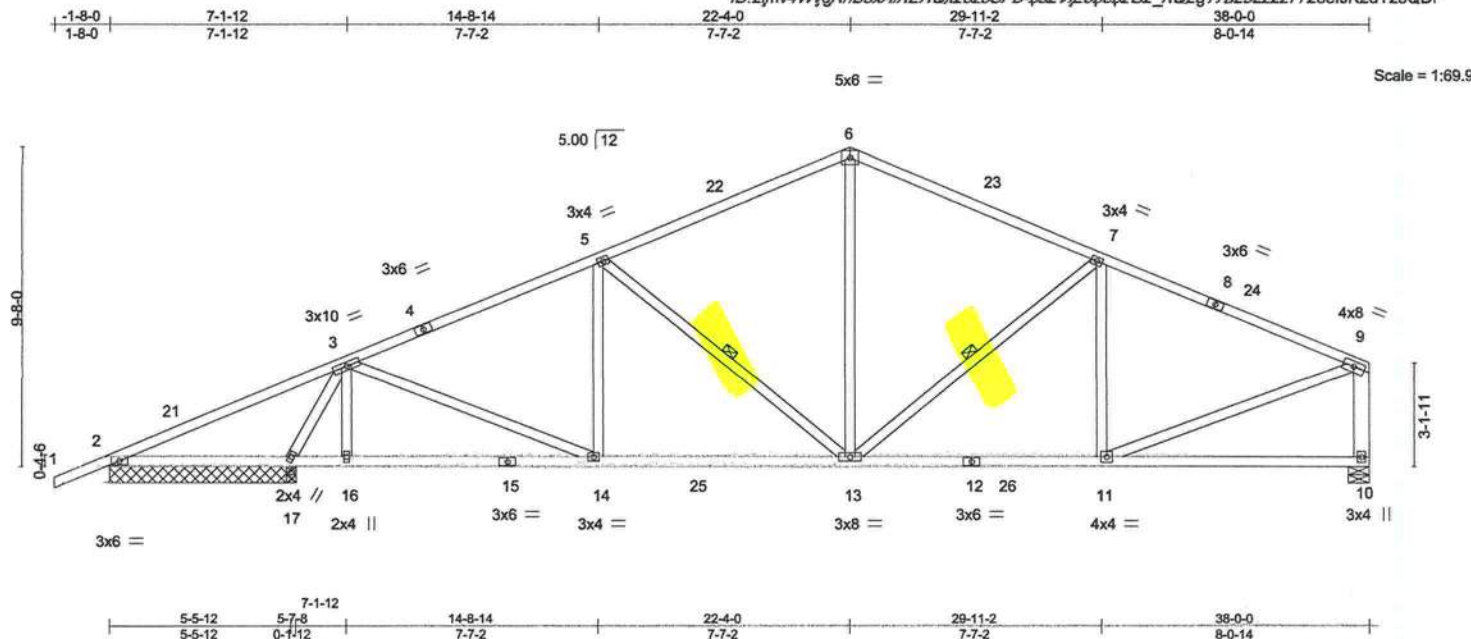
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 3212507	Truss T02	Truss Type Common	Qty 1	Ply 1	MIKE TODD CONST. - BOYD RES.	T28088546
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:44 2022 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.67	Vert(LL)	-0.11 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.20 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 219 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
9-10: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-17.
WEBS 1 Row at midpt 5-13, 7-13

REACTIONS.

All bearings 5-7-8 except (jt=length) 10=0-7-8.
(lb) - Max Horz 2=215(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 17=393(LC 12), 10=239(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 2 except 17=1787(LC 2), 17=1615(LC 1), 10=1287(LC 2)

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

TOP CHORD 2-3=201/578, 3-5=1538/303, 5-6=1282/321, 6-7=1284/325, 7-9=1480/294, 9-10=1163/261
BOT CHORD 2-17=473/103, 16-17=171/447, 14-16=171/447, 13-14=292/1361, 11-13=213/1311
WEBS 3-17=1843/409, 3-14=146/984, 5-13=377/177, 6-13=85/633, 7-13=318/173, 7-11=253/124, 9-11=210/1323

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 2-1-10, Interior(1) 2-1-10 to 22-4-0, Exterior(2R) 22-4-0 to 26-1-10, Interior(1) 26-1-10 to 37-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 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, 2 except (jt=lb) 17=393, 10=239.



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Date:

June 24, 2022

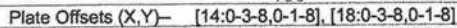
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

MiTek

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Chesterfield, MO 63017

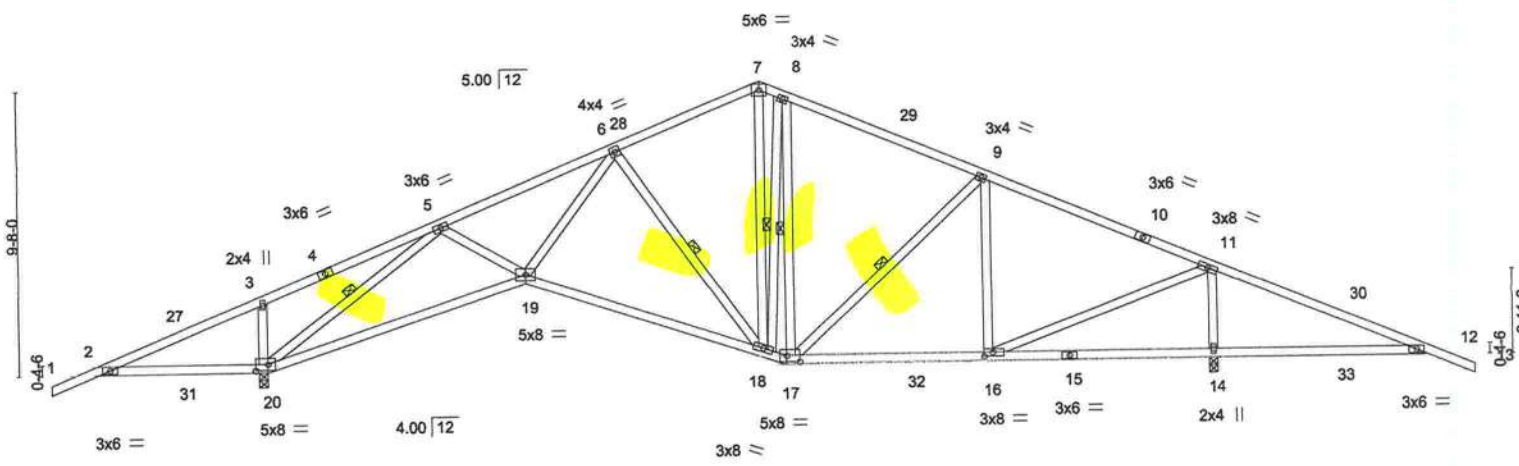
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BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-8-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-16, 5-16

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, ID: 2jmv4WygRhB5xAtKERQk2Bz3SFU-DRFeLG8ixkLvR2_1o0qB_nrcGxaKlg4LHYJdtz3QDc
 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:47 2022 Page 1
 44-8-0 46-4-0 1-8-0
 Scale = 1:78.2



5-4-0		5-7-8		14-4-8		22-4-0		23-1-8		29-11-2		37-6-4		37-8-0		44-8-0	
5-4-0		0-3-8		8-9-0		7-11-8		0-9-8		6-9-10		7-7-2		0-1-12		7-0-0	
Plate Offsets (X,Y)--- [16:0-3-8,0-1-8], [17:0-5-4,0-2-8], [20:0-5-0,0-2-8]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES	
TCLL 20.0		Plate Grip DOL		1.25		TC 0.74		Vert(LL)		-0.24 19-20		>999		240		MT20	
TCDL 7.0		Lumber DOL		1.25		BC 0.88		Vert(CT)		-0.49 19-20		>773		180			
BCLL 0.0 *		Rep Stress Incr		YES		WB 0.90		Horz(CT)		0.15 14		n/a		n/a			
BCDL 10.0		Code FBC2020/TPI2014				Matrix-MS										Weight: 261 lb FT = 20%	

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-20, 6-18, 8-18, 8-17, 9-17

REACTIONS. (size) 20=0-3-8, 14=0-3-8
 Max Horz 20=-149(LC 17)
 Max Uplift 20=-403(LC 12), 14=-432(LC 13)
 Max Grav 20=1761(LC 2), 14=1953(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-684/714, 3-5=-612/729, 5-6=-2183/442, 6-7=-1029/258, 7-8=-1020/284,
 8-9=-1036/263, 9-11=-1020/195, 11-12=-769/855
 BOT CHORD 2-20=-598/689, 19-20=-356/1599, 18-19=-242/1488, 17-18=-69/998, 16-17=-69/879,
 14-16=-712/775, 12-14=-712/775
 WEBS 3-20=-342/188, 5-20=-2632/569, 5-19=-24/641, 6-19=-171/1075, 6-18=-815/267,
 7-18=-226/719, 8-18=-119/270, 8-17=-353/22, 9-16=-451/294, 11-16=-576/1701,
 11-14=-1653/655

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 2-9-10, Interior(1) 2-9-10 to 22-4-0, Exterior(2R) 22-4-0 to 26-9-10, Interior(1) 26-9-10 to 46-4-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 2-0-0 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=1b) 20=403, 14=432.



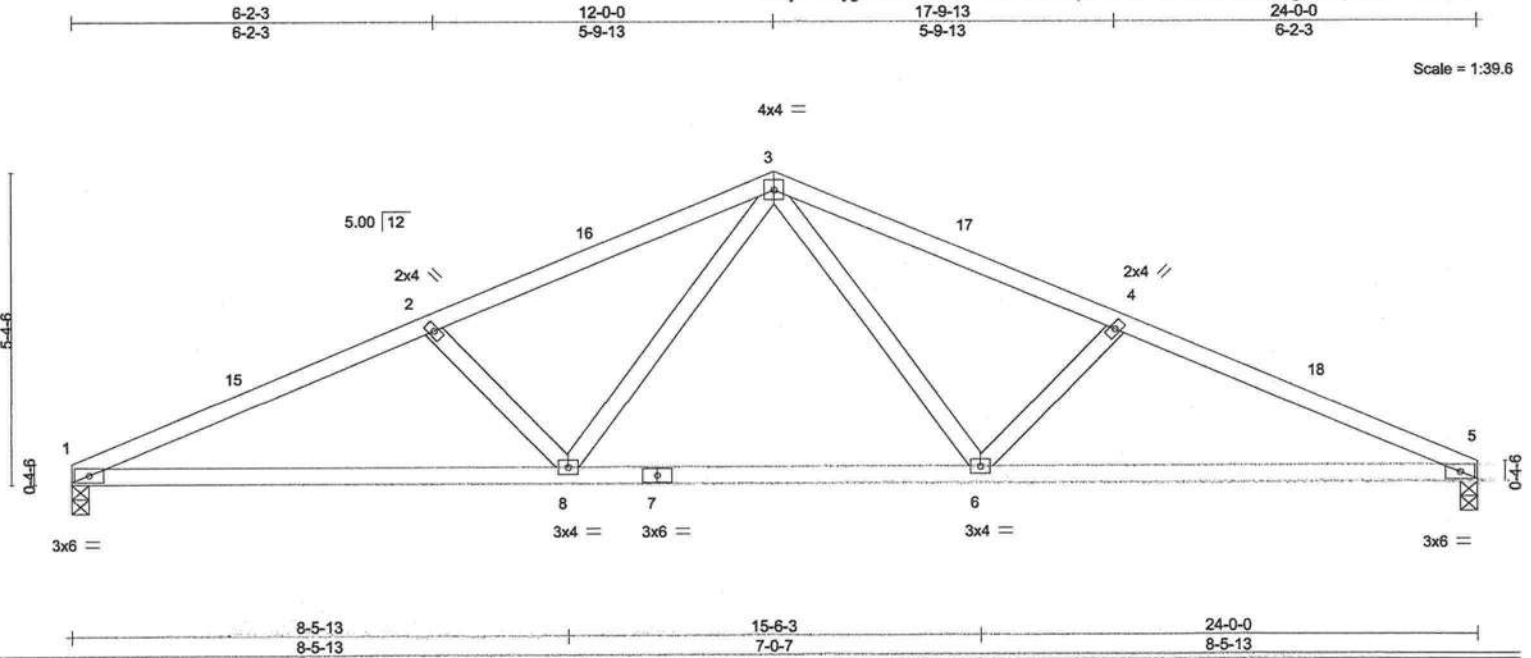
Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

June 24,2022

Job 3212507	Truss T05	Truss Type Common	Qty 3	Ply 1	MIKE TODD CONST. - BOYD RES. Job Reference (optional)	T28088549
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:48 2022 Page 1
ID:2jmv4WygRhB5xAfKERQk28z3SFU-hep0Zc8Kt2TtXbdBaVX3kBJ54gKu3wpEaxlGmKz3QDb



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	-0.12	8-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.27	8-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.05	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 102 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=74(LC 12)
Max Uplift 1=188(LC 12), 5=188(LC 13)
Max Grav 1=888(LC 1), 5=888(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=1771/443, 2-3=1544/404, 3-4=1544/404, 4-5=1771/443
BOT CHORD 1-8=374/1607, 6-8=188/1065, 5-6=361/1607
WEBS 3-6=133/533, 4-6=372/204, 3-8=133/533, 2-8=372/204

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 24-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 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=188, 5=188.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 24,2022

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - BOYD RES.	T28088550
3212507	T05G	GABLE	1	1		

Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:49 2022 Page 1

ID:2jmv4WygRhB5xAfKERQk28z3SFU-AqMOMy9yTmbZ9ICN8D2IHPsFw3kzoIONpb1plmz3QDa

Job Reference (optional)

-1-8-0 6-2-3 12-0-0 17-9-13 24-0-0 25-8-6
1-8-0 6-2-3 5-9-13 5-9-13 6-2-3 1-8-0

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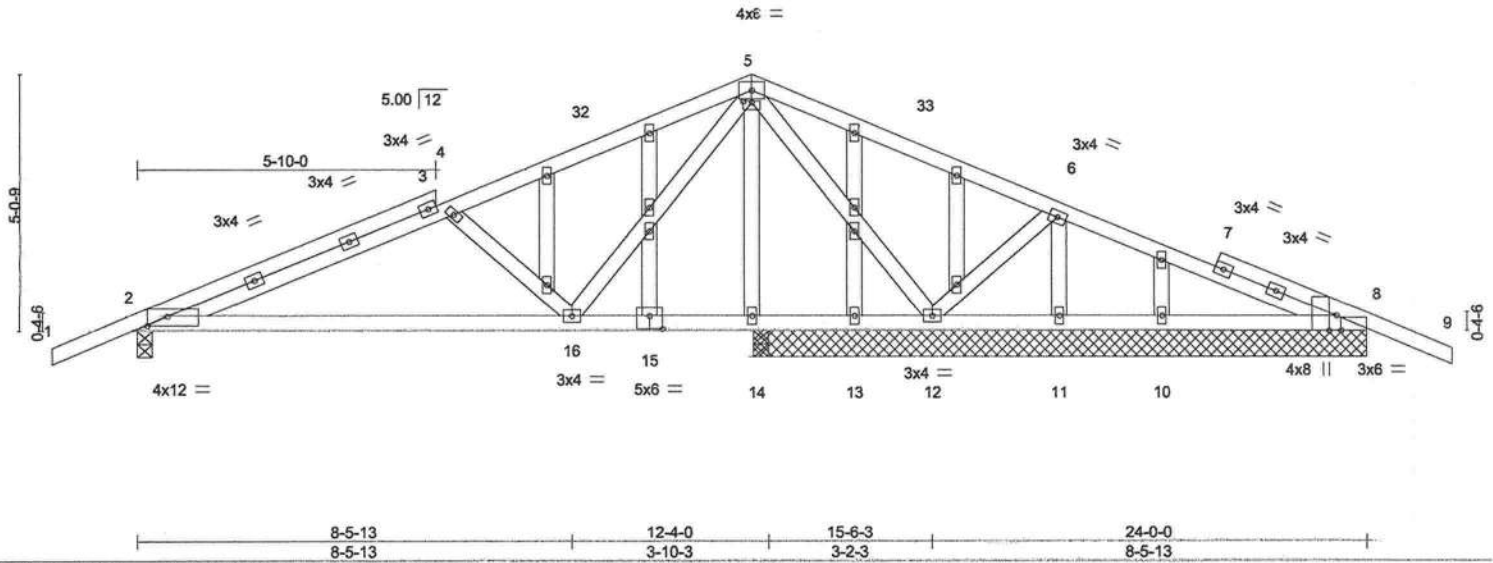


Plate Offsets (X, Y) - [2:0-4-12,0-2-3], [5:0-2-0,0-0-4], [8:0-3-8,Edge], [8:0-1-1,Edge], [15:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	-0.08 16-28	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.16 16-28	>894	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 147 lb	FT = 20%

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

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

REACTIONS. All bearings 11-11-8 except (jt=length) 2=0-3-8, 14=0-3-8, 14=0-3-8.
(lb) - Max Horz 2=80(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 8, 10 except 2=162(LC 12), 12=229(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 13, 11, 10, 14, 14, 8 except 2=591(LC 23), 8=260(LC 24), 12=948(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-803/229, 4-5=-544/170, 5-6=-66/441
BOT CHORD 2-16=-226/741
WEBS 5-12=-818/217, 6-12=-357/205, 5-16=-128/508, 4-16=-418/212

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-2, Interior(1) 1-4-2 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 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, 10, 8 except (jt=lb) 2=162, 12=229.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 24,2022

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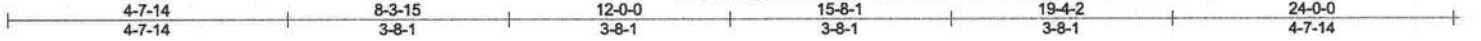
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 3212507	Truss T06	Truss Type Common Girder	Qty 1	Ply 3	MIKE TODD CONST. - BOYD RES. T28088551
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:51 2022 Page 1

ID:2jmv4WygRhB5xAfKERQk28z3SFU-6DU9BeBC?zsGO2MmGe5mMqxVtPdG8AgGuWwMez3QDY



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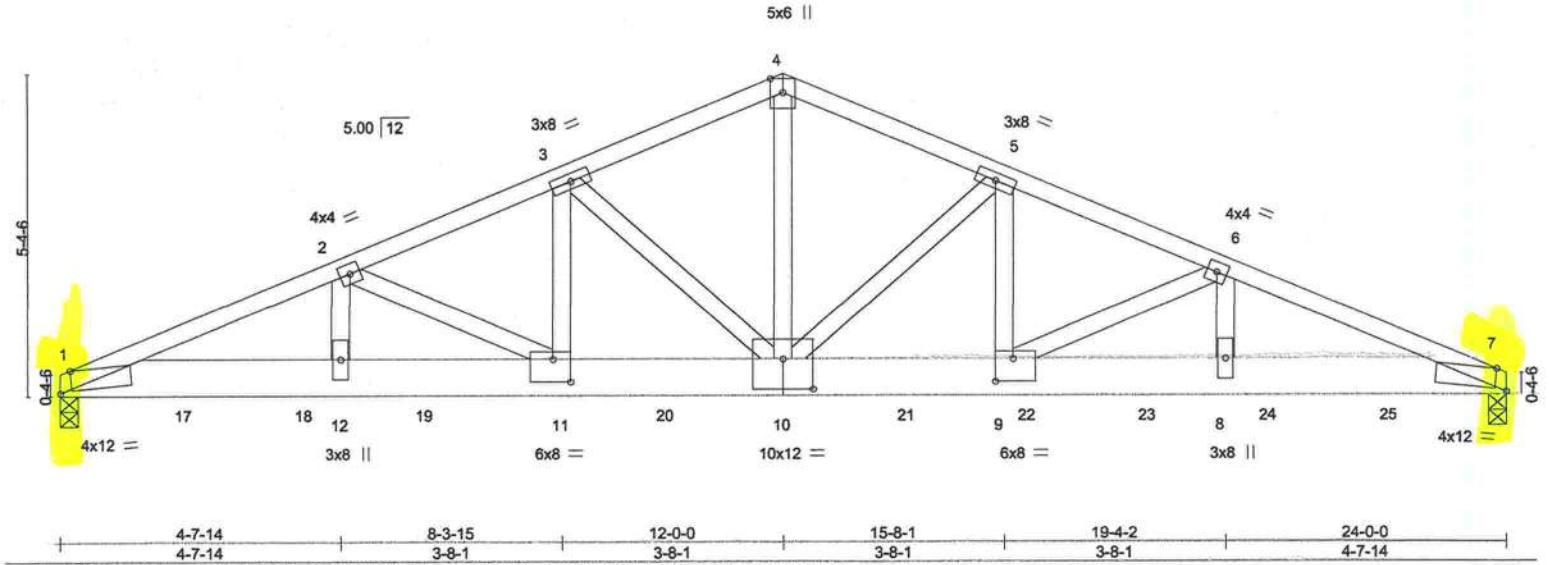


Plate Offsets (X,Y) [1:0-2-6,Edge], [7:0-2-6,Edge], [9:0-3-8,0-4-8], [10:0-6-0,0-6-0], [11:0-3-8,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.25 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.43 10-11	>665	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.74	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 471 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
4-10: 2x4 SP No.2

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

REACTIONS. (size) 1=0-3-8 (req. 0-3-9), 7=0-3-8 (req. 0-3-10)
Max Horz 1=73(LC 27)
Max Uplift 1=1673(LC 8), 7=1693(LC 9)
Max Grav 1=9074(LC 2), 7=9189(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=20065/3684, 2-3=16826/3089, 3-4=13086/2414, 4-5=13086/2414,
5-6=16823/3087, 6-7=20190/3706
BOT CHORD 1-12=3428/18490, 11-12=3428/18490, 10-11=2830/15519, 9-10=2756/15516,
8-9=3375/18606, 7-8=3375/18606
WEBS 4-10=1777/9838, 5-10=4691/932, 5-9=791/4446, 6-9=3467/693, 6-8=467/2752,
3-10=4695/933, 3-11=792/4450, 2-11=3334/669, 2-12=447/2643

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 0-7-0 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING:** Required bearing size at joint(s) 1, 7 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)
1=1673, 7=1693.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1522 lb down and 286 lb up at 2-0-12, 1522 lb down and 286 lb up at 4-0-12, 1522 lb down and 286 lb up at 6-0-12, 1522 lb down and 286 lb up at 8-0-12, 1522 lb down and 286 lb up at 10-0-12, 1522 lb down and 286 lb up at 12-0-12, 1522 lb down and 286 lb up at 14-0-12, 1522 lb down and 286 lb up at 16-0-12, 1522 lb down and 286 lb up at 18-0-12, and 1522 lb down and 286 lb up at 20-0-12, and 1522 lb down and 286 lb up at 22-0-12 on bottom chord. The design selection of such connection device(s) is the responsibility of others.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 24,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 3212507	Truss T06	Truss Type Common Girder	Qty 1	Ply 3	MIKE TODD CONST. - BOYD RES. T28088551
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:51 2022 Page 2
ID:2jmv4WygRhB5xAfKERQk28z3SFU-6DU9BeBC?zsGO2MmGe5mMqxVttPdG8AgGuWwMez3QDY

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 1-7=-20

Concentrated Loads (lb)

Vert: 10=-1376(B) 11=-1376(B) 17=-1376(B) 18=-1376(B) 19=-1376(B) 20=-1376(B) 21=-1376(B) 22=-1376(B) 23=-1376(B) 24=-1376(B) 25=-1376(B)

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

T28088552

Scale = 1:25.9

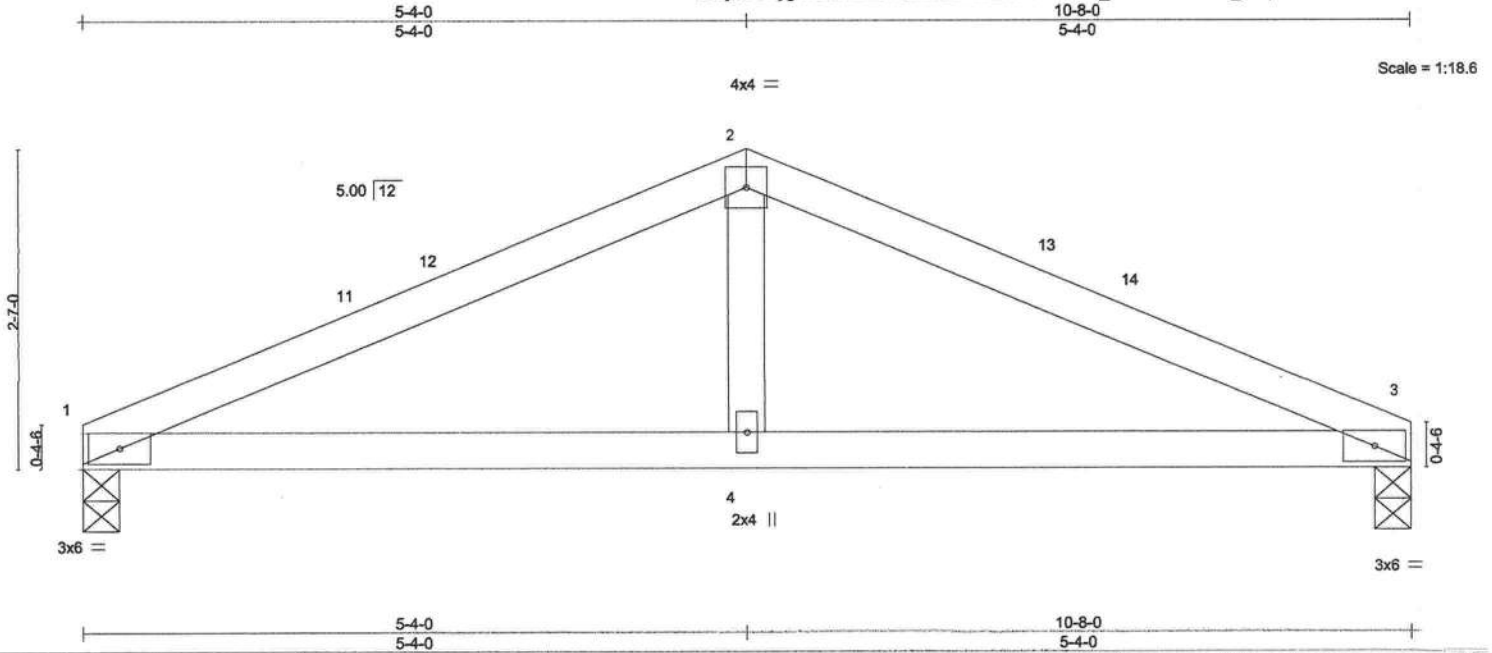


Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - BOYD RES.	T28088553
3212507	T08	Common	3	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:53 2022 Page 1

ID:2jmv4WygRhB5xAfKERQk28z3SFU-2bcvcJCSXa6_dMW8N27ERF1_kh8pkCozkC?1RXz3QDW



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL)	-0.03	4-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.32	Vert(CT)	-0.06	4-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 36 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 3=0-3-8
 Max Horz 1=-33(LC 13)
 Max Uplift 1=-83(LC 12), 3=-83(LC 13)
 Max Grav 1=395(LC 1), 3=395(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-629/294, 2-3=-629/294
 BOT CHORD 1-4=-208/539, 3-4=-208/539

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-4-0, Exterior(2R) 5-4-0 to 8-4-0, Interior(1) 8-4-0 to 10-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 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.



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

June 24,2022

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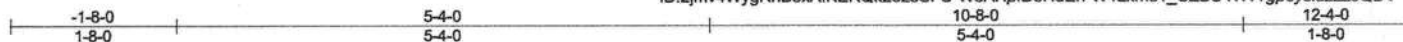
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 3212507	Truss T08G	Truss Type Common Supported Gable	Qty 1	Ply 1	MIKE TODD CONST. - BOYD RES. T28088554
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:54 2022 Page 1

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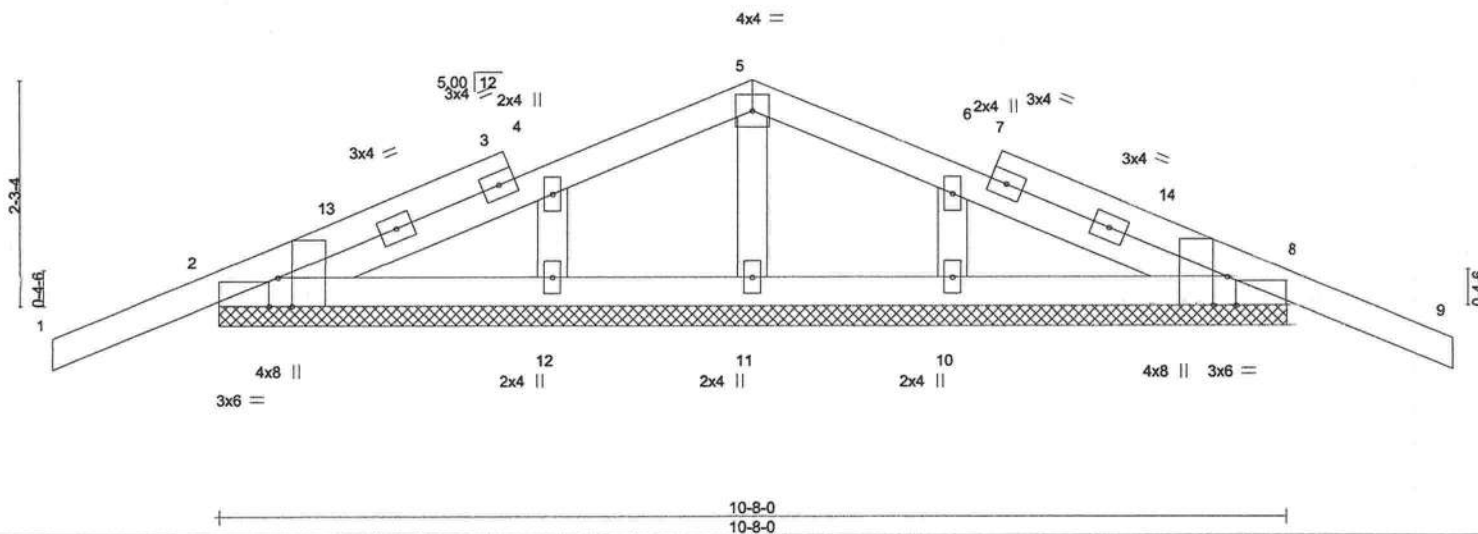


Plate Offsets (X,Y)- [2:0-3-8,Edge], [2:0-1-1,Edge], [8:0-3-8,Edge], [8:0-1-1,Edge]

LOADING (psf)	SPACING-	CS.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.07	Vert(CT)	-0.01	9	n/r	120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 51 lb	FT = 20%
	Code FBC2020/TPI2014								

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 10-8-0.
(lb) - Max Horz 2=39(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 11, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-8-0 to 1-4-0, Exterior(2N) 1-4-0 to 5-4-0, Corner(3R) 5-4-0 to 8-4-0, Exterior(2N) 8-4-0 to 12-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 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, 8, 11, 12, 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 24,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 3212507	Truss T09	Truss Type Common Girder	Qty 1	Ply 2	MIKE TODD CONST. - BOYD RES.	T28088553
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:55 2022 Page 1

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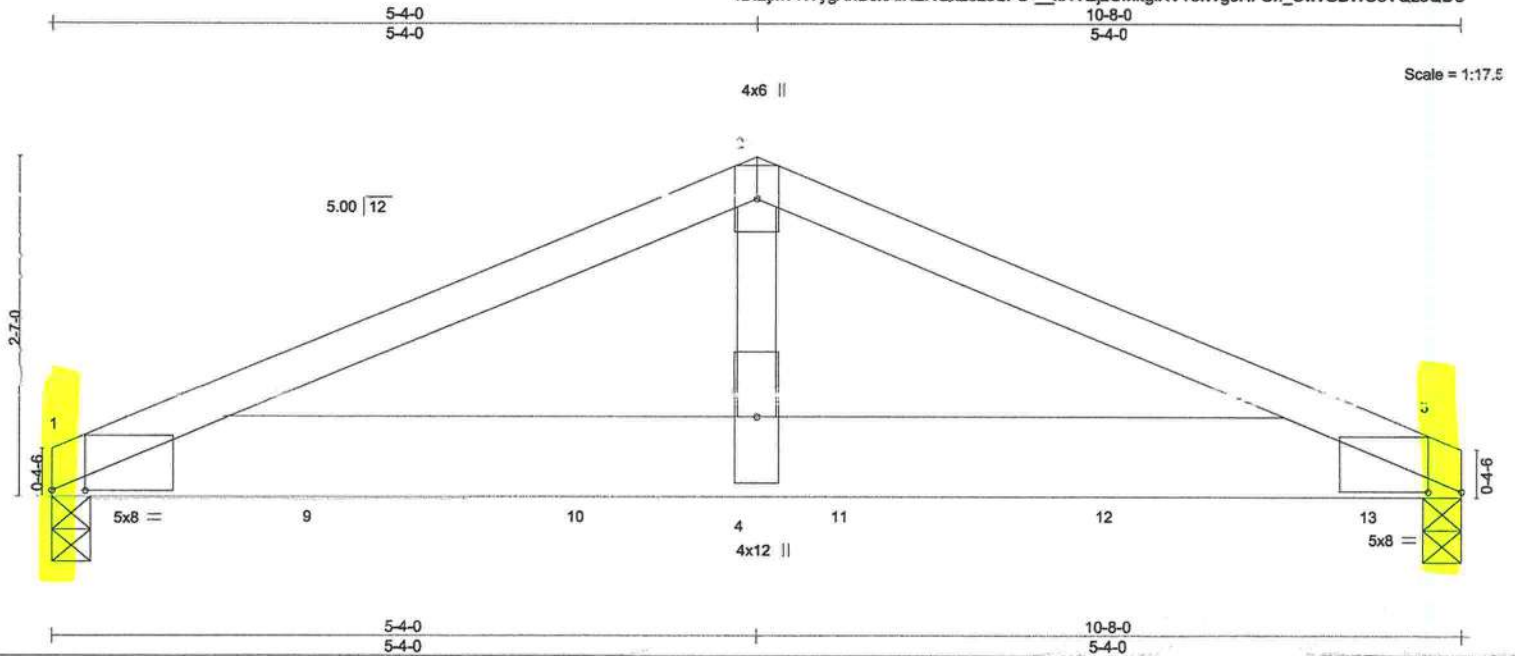


Plate Offsets (X,Y)--		[1:0-3-0,0-0-0], [3:0-3-0,0-0-1]									
LOADING (psf)		SPACING-		CSI.		DEFL.		in (loc)	I/defl	L/d	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.06	4-8	>999	240	
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.11	4-8	>999	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.02	3	n/a	n/a	
BCDL	10.0	Code	FBC2020/TP12014	Matrix-MS							
										Weight: 106 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=32(LC 32)
Max Uplift 1=-666(LC 8), 3=-856(LC 9)
Max Grav 1=3603(LC 2), 3=4678(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6375/1168, 2-3=-6373/1168
BOT CHORD 1-4=-1049/5872, 3-4=-1049/5872
WEBS 2-4=-808/4642

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 0-8-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 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=666, 3=856.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1522 lb down and 286 lb up at 2-0-12, 1522 lb down and 286 lb up at 4-0-12, 1522 lb down and 286 lb up at 6-0-12, and 1522 lb down and 286 lb up at 8-0-12, and 1522 lb down and 281 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1} Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 24, 2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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

MiTek

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - BOYD RES.	28088555
12507	T09	Common Girder	11	2	Job Reference (optional)	

Buildings FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Jun 23 11:06:55 2022 Page 2
 2imv4WygRhB5xAfKERQk28z3SFU-__kf1?Ej2CMitgXVT9iWg6HFUn_CwvGBWU8VQz3QDU

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-54, 1-3=-20

Concentrated Loads (lb)

Vert: 9=-1376(F) 10=-1376(F) 11=-1376(F) 12=-1376(F) 13=-1381(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

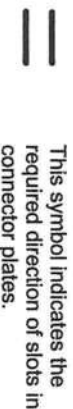
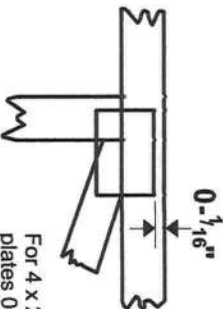
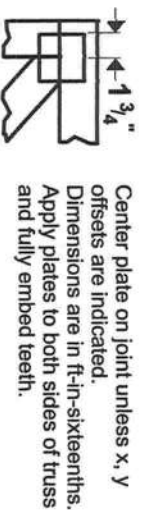
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



*Plate location details available in MITEK 20/20 software or upon request.

PLATE SIZE

4 X 4

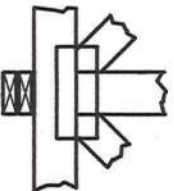
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

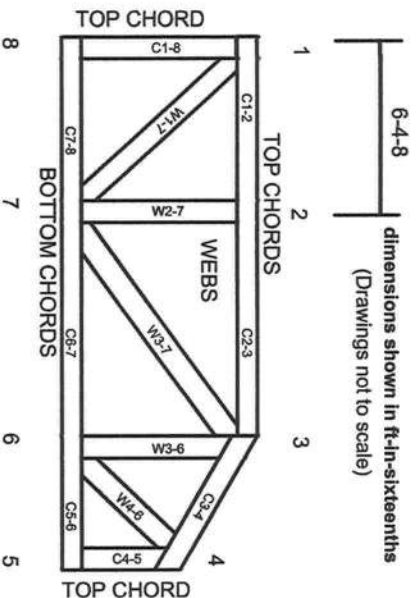


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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



JOINTS ARE GENERALLY NUMBERED/LETTERED 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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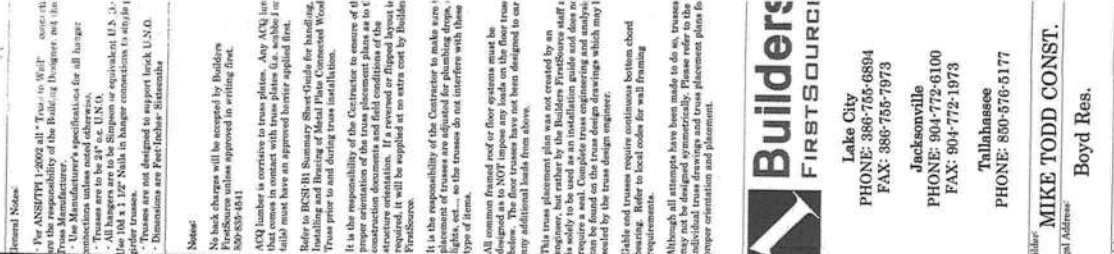
MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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 stack 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



Builders
FIRSTSOURCE

Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

MIKE TODD CONST.
Boyd Res.

Customer	Drawn By:	Original Ref #:
20-23-22	KLH	3212507
1/4	Floor 2 Jobs:	Roof Job #:
	N/A	3212507

MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2