



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

RE: 3363894 - IC CONST. - WALDEN RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Walden Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: Address: City: State: License #:

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 39 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	No.	Seal#	Truss Name	Date
1	T29385862	CJ01	12/13/22	15	T29385876	PB02G	12/13/22
2	T29385863	CJ01A	12/13/22	16	T29385877	T01	12/13/22
3	T29385864	CJ03	12/13/22	17	T29385878	T01G	12/13/22
4	T29385865	CJ03A	12/13/22	18	T29385879	T01GG	12/13/22
5	T29385866	CJ05	12/13/22	19	T29385880	T02	12/13/22
6	T29385867	EJ01	12/13/22	20	T29385881	T03	12/13/22
7	T29385868	EJ01G	12/13/22	21	T29385882	T04	12/13/22
8	T29385869	EJ02	12/13/22	22	T29385883	T05	12/13/22
9	T29385870	EJ03	12/13/22	23	T29385884	T06	12/13/22
10	T29385871	HJ08	12/13/22	24	T29385885	T07	12/13/22
11	T29385872	HJ10	12/13/22	25	T29385886	T08	12/13/22
12	T29385873	PB01	12/13/22	26	T29385887	T08G	12/13/22
13	T29385874	PB01G	12/13/22	27	T29385888	T09	12/13/22
14	T29385875	PB02	12/13/22	28	T29385889	T10	12/13/22



This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature.

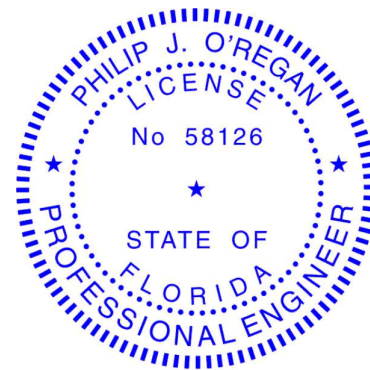
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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: O'Regan, Philip

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.



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13, 2022

O'Regan, Philip

1 of 2



RE: 3363894 - IC CONST. - WALDEN RES.

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Walden Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T29385890	T11	12/13/22
30	T29385891	T12	12/13/22
31	T29385892	T12G	12/13/22
32	T29385893	T13	12/13/22
33	T29385894	T13G	12/13/22
34	T29385895	T15	12/13/22
35	T29385896	T15G	12/13/22
36	T29385897	T16	12/13/22
37	T29385898	T19	12/13/22
38	T29385899	T20	12/13/22
39	T29385900	T21	12/13/22

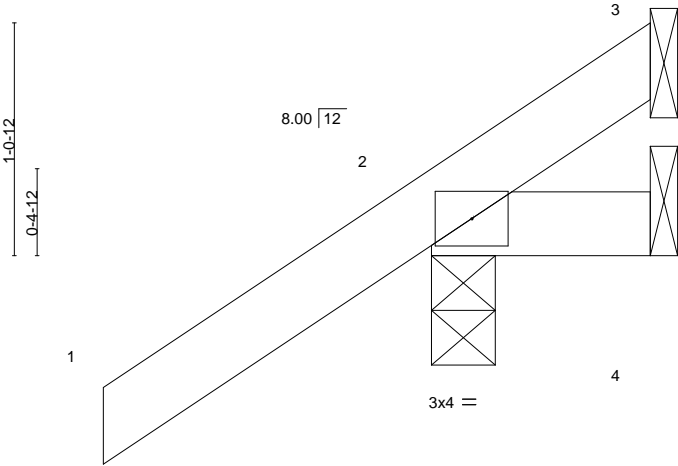
Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.
3363894	CJ01	Jack-Open	4	1	T29385862
Job Reference (optional)					

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:38:50 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-xf4u?iUZ?mQffZs_Kxl8jWfleTRJN5Dj0f?Pg6y9jTJ



Scale = 1:10.5



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 0.19	Vert(LL)	0.00	7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	0.00	7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
									Weight: 6 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=52(LC 12)

Max Uplift 3=-5(LC 1), 2=-69(LC 12), 4=-20(LC 1)

Max Grav 3=7(LC 8), 2=179(LC 1), 4=21(LC 16)

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

NOTES-

- 1) 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) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

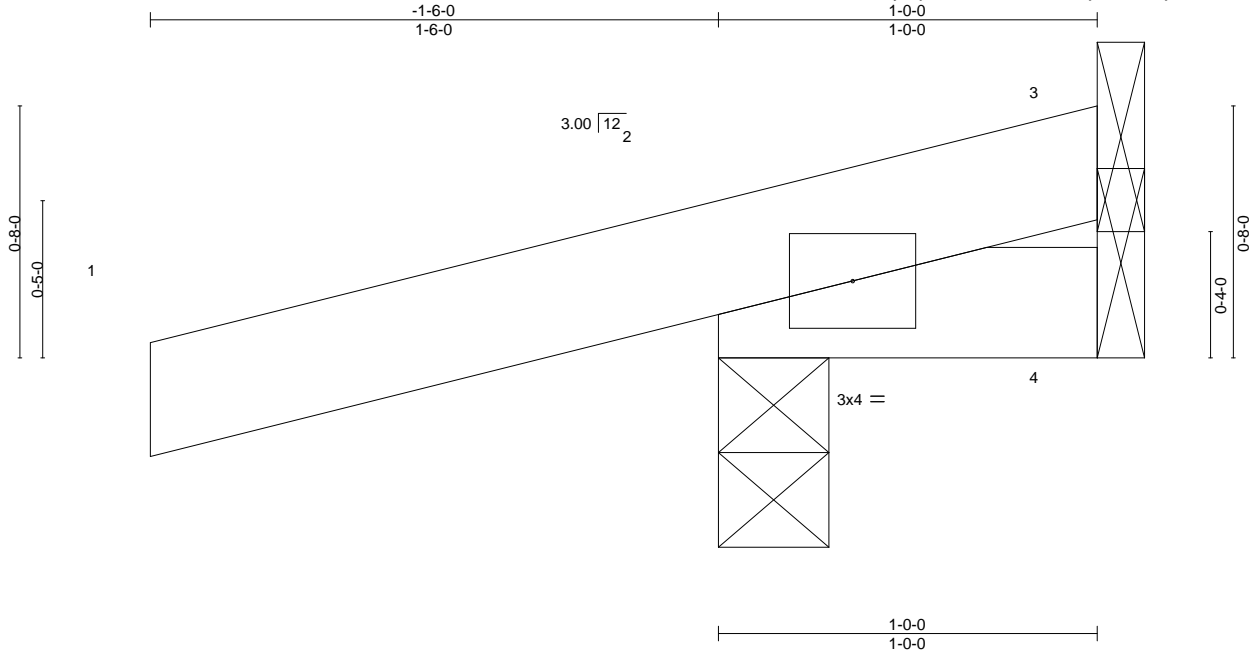


Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385863
3363894	CJ01A	Jack-Open	4	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:38:51 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-PreGC2UBm4YWGjRAufGNFjCUOtn26YTtFJlZDZy9jTl



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 0.12	Vert(LL)	0.00 5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	0.00 5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 5 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=26(LC 8)
Max Uplift 3=-7(LC 1), 2=-116(LC 8), 4=-18(LC 1)
Max Grav 3=8(LC 8), 2=179(LC 1), 4=16(LC 8)

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

NOTES-

- 1) 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) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=116.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



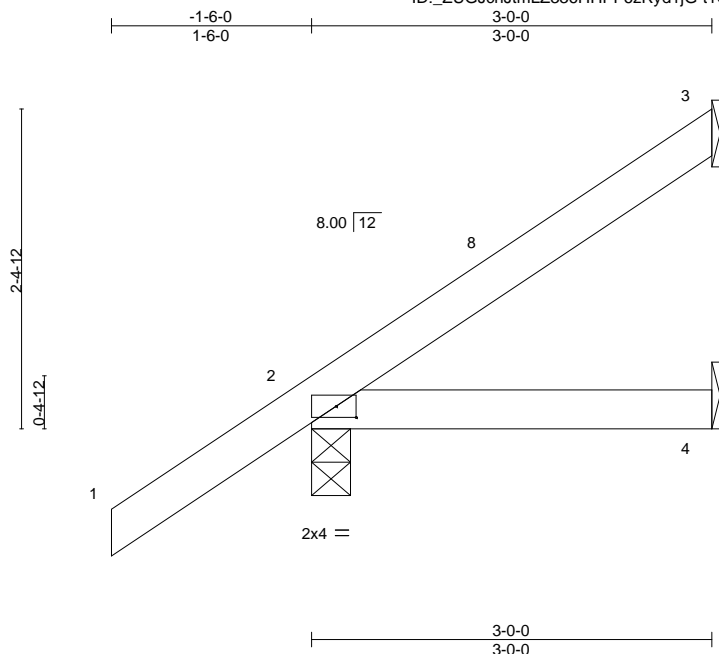
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.
3363894	CJ03	Jack-Open	4	1	T29385864
Job Reference (optional)					

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:38:52 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-t1CePOVpXNgNut0NSMncoXleWH6Nr?j0UzUWI?y9jTH



Scale = 1:17.3

Plate Offsets (X,Y)--		[2:0-1-13,0-1-0]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=97(LC 12)
Max Uplift 3=44(LC 12), 2=-49(LC 12)
Max Grav 3=65(LC 19), 2=210(LC 1), 4=51(LC 3)

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

NOTES-

- 1) 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

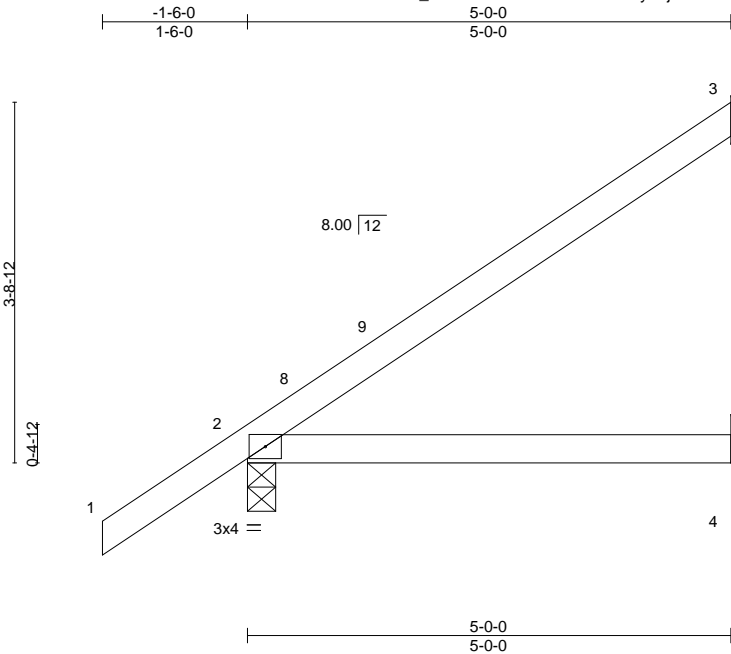


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.
3363894	CJ05	Jack-Open	4	1	T29385866
Job Reference (optional)					

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:38:53 2022 Page 1

ID:_ZUGJcnJtmLZ336HHPF6zRyd1jG-LDm0dkWRlhoEW1aZ03JrK8HnMhQ_aSzAidE3HRy9jTG



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 0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.06	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MP						Weight: 19 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=143(LC 12)
Max Uplift 3=-81(LC 12), 2=-49(LC 12), 4=-1(LC 12)
Max Grav 3=120(LC 19), 2=276(LC 1), 4=89(LC 3)

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

- NOTES-**
- 1) 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022



Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.
3363894	EJ01	Jack-Partial	14	1	T29385867
Job Reference (optional)					

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:38:54 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-qQKPq4X43?w47B9lZnq4tMqx45j9Ju0JxHzdpuy9jTF



Scale = 1:30.2

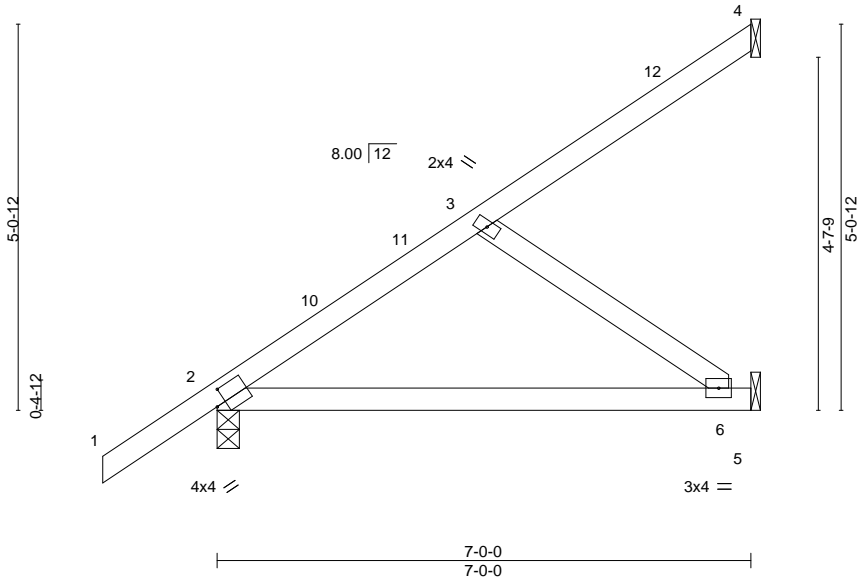


Plate Offsets (X,Y)--		[2:0-1-9,0-2-5]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.35	Vert(LL) -0.08 6-9 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.44	Vert(CT) -0.16 6-9 >529 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 32 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) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=182(LC 12)
Max Uplift 4=-48(LC 12), 2=-55(LC 12), 5=-58(LC 12)
Max Grav 4=77(LC 19), 2=346(LC 1), 5=184(LC 19)

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

NOTES-

- 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 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.
- 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) 4, 2, 5.

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

December 13,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385868
3363894	EJ01G	Monopitch Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:38:55 2022 Page 1
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-Icun2QXiqI2xIKKx7ULJQZN9qU6L2L5TAxjAMKy9jTE



Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-7-12,Edge]		8-0-0 8-0-0		12-8-3 4-8-3	
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 0.16	Vert(LL) -0.03 2-8 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.25	Vert(CT) -0.06 2-8 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 51 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-3: 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.

REACTIONS.

All bearings 8-0-0 except (jt=length) 6=Mechanical.
(lb) - Max Horz 2=112(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 6, 8 except 2=102(LC 8), 7=106(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 6, 7 except 2=276(LC 1), 8=382(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-7=177/253
WEBS 4-8=256/293

NOTES-

- 1) 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) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 12-7-7 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable studs spaced at 2-0-0 oc.
- 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 2-0-0 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) 6, 8 except (jt=lb) 2=102, 7=106.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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

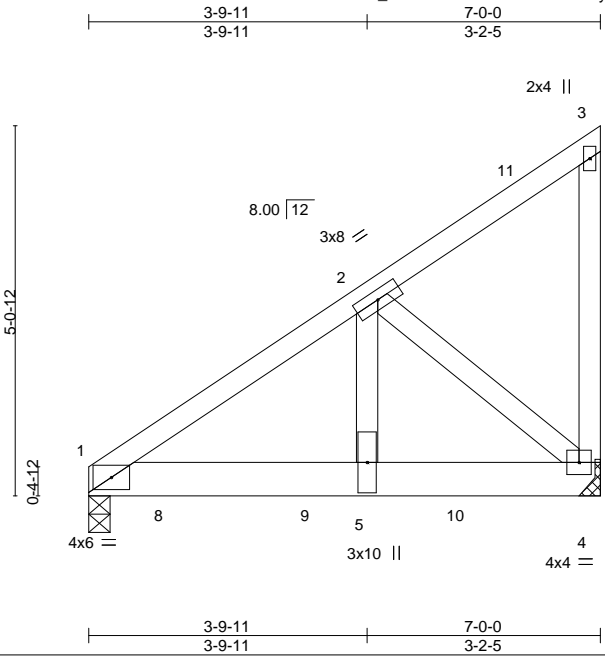
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385869
3363894	EJ02	MONO TRUSS	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:38:57 2022 Page 1
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-E??XT6ZyLwlf_euKFvNnV_ST4If9W8lldFCHQCy9jTC



Scale = 1:31.5

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 0.30	Vert(LL)	-0.03	5-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.05	5-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.55	Horz(CT)	0.01	4	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 4=Mechanical
Max Horz 1=151(LC 23)
Max Uplift 1=-259(LC 8), 4=-303(LC 8)
Max Grav 1=1386(LC 1), 4=1167(LC 1)

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

TOP CHORD 1-2=-1380/234
BOT CHORD 1-5=-296/1141, 4-5=-296/1141
WEBS 2-5=-283/1455, 2-4=-1474/382

NOTES-

- 1) 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=259, 4=303.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 683 lb down and 159 lb up at 1-0-12, and 683 lb down and 159 lb up at 3-0-12, and 680 lb down and 158 lb up at 5-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 1-3=-54
Concentrated Loads (lb)
Vert: 8=-683(B) 9=-683(B) 10=-680(B)

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December 13,2022

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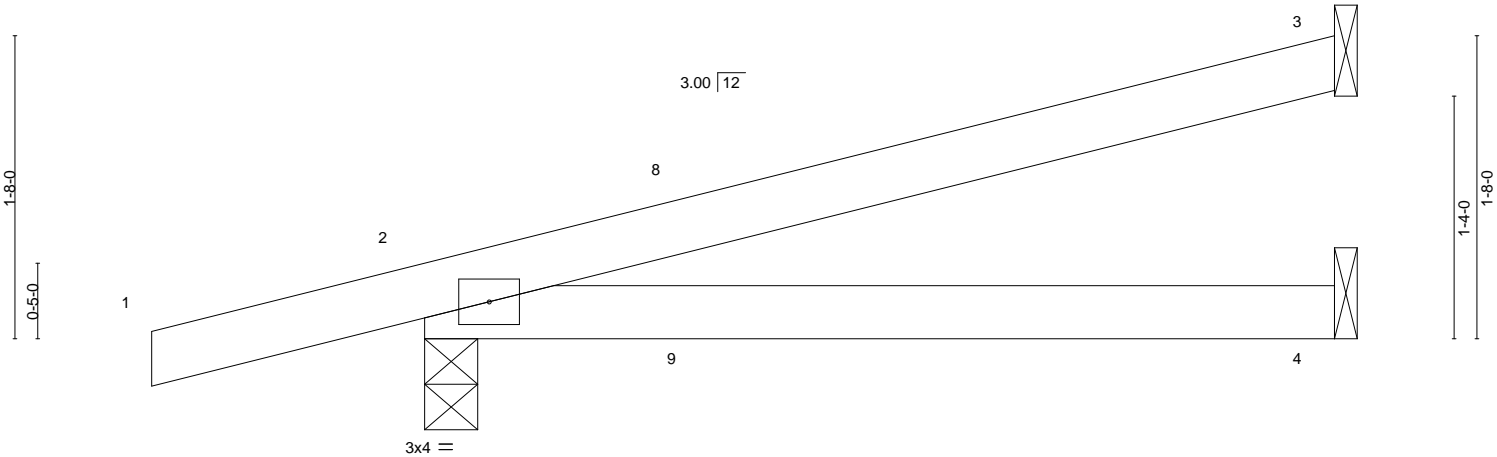
Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385870
3363894	EJ03	Jack-Open	7	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:38:58 2022 Page 1
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Scale = 1:12.7



		5-0-0		5-0-0					
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 0.37	Vert(LL)	0.09 4-7	>645	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	0.08 4-7	>730	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=60(LC 8)
Max Uplift 3=-58(LC 8), 2=-148(LC 8), 4=-30(LC 8)
Max Grav 3=112(LC 1), 2=276(LC 1), 4=86(LC 3)

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

NOTES-

- 1) 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=148.

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Date:

December 13,2022

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

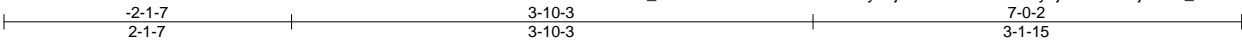
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385871
3363894	HJ08	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:38:59 2022 Page 1
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-AN7ltnbCtXZNEy2jMKPFaPXjx6Ow_AS25ZhOV5y9jTA



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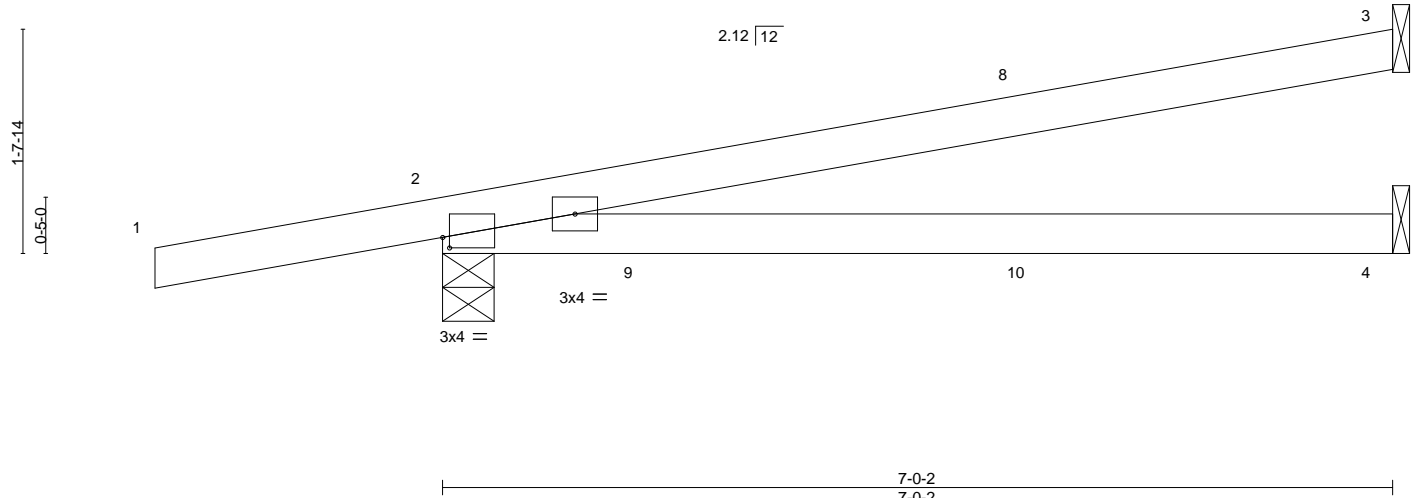


Plate Offsets (X,Y)--		[2:0-0-10,0-0-15]													
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP				
TCLL 20.0		Plate Grip DOL	1.25	TC 0.66		Vert(LL)	0.14 4-7	>602	240	MT20	244/190				
TCDL 7.0		Lumber DOL	1.25	BC 0.53		Vert(CT)	-0.20 4-7	>412	180						
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.00		Horz(CT)	0.01 2	n/a	n/a						
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS											
										Weight: 24 lb		FT = 20%			

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) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=59(LC 22)
Max Uplift 3=81(LC 4), 2=232(LC 4), 4=45(LC 4)
Max Grav 3=159(LC 1), 2=392(LC 1), 4=123(LC 3)

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

- NOTES-**
- 1) 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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=232.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 21 lb down and 35 lb up at 4-4-0, and 21 lb down and 35 lb up at 4-4-0 on top chord, and 35 lb down and 34 lb up at 1-6-1, 35 lb down and 34 lb up at 1-6-1, and 18 lb down and 23 lb up at 4-4-0, and 18 lb down and 23 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 4-5=-20

Concentrated Loads (lb)

Vert: 10=-9(F=-5, B=-5)

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

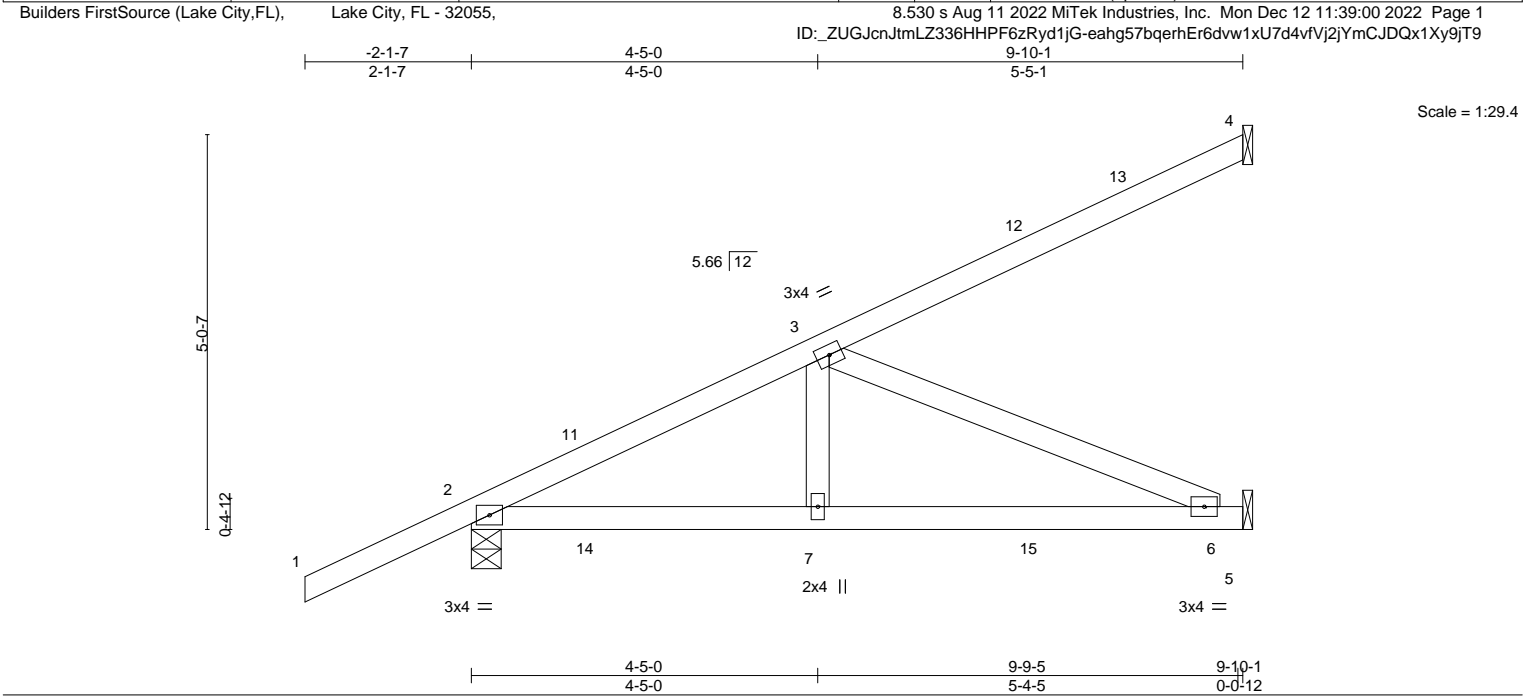
December 13,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385872
3363894	HJ10	Diagonal Hip Girder	2	1	Job Reference (optional)	



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 0.60	Vert(LL)	-0.05 6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.12 6-7	>990	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.38	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 45 lb	FT = 20%

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.
WEBS 2x4 SP No.3			

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=182(LC 8)
Max Uplift 4=-95(LC 8), 2=-192(LC 8), 5=-112(LC 8)
Max Grav 4=151(LC 1), 2=526(LC 1), 5=297(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-674/211
BOT CHORD 2-7=-290/561, 6-7=-290/561
WEBS 3-7=0/286, 3-6=-610/315

- NOTES-**
- 1) 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
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=192, 5=112.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 62 lb down and 73 lb up at 1-6-1, 62 lb down and 73 lb up at 1-6-10, 80 lb down and 46 lb up at 4-4-0, 80 lb down and 46 lb up at 4-4-10, and 109 lb down and 92 lb up at 7-1-15, and 109 lb down and 92 lb up at 7-2-9 on top chord, and 21 lb down and 45 lb up at 1-6-1, 21 lb down and 45 lb up at 1-6-10, 25 lb down at 4-4-0, 25 lb down at 4-4-10, and 47 lb down and 16 lb up at 7-1-15, and 47 lb down and 16 lb up at 7-2-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-4(F=-2, B=-2) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

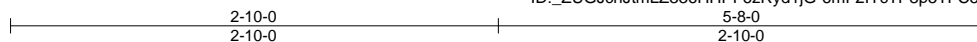
December 13,2022

Job 3363894	Truss PB01	Truss Type Piggyback	Qty 5	Ply 1	IC CONST. - WALDEN RES. T29385873
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

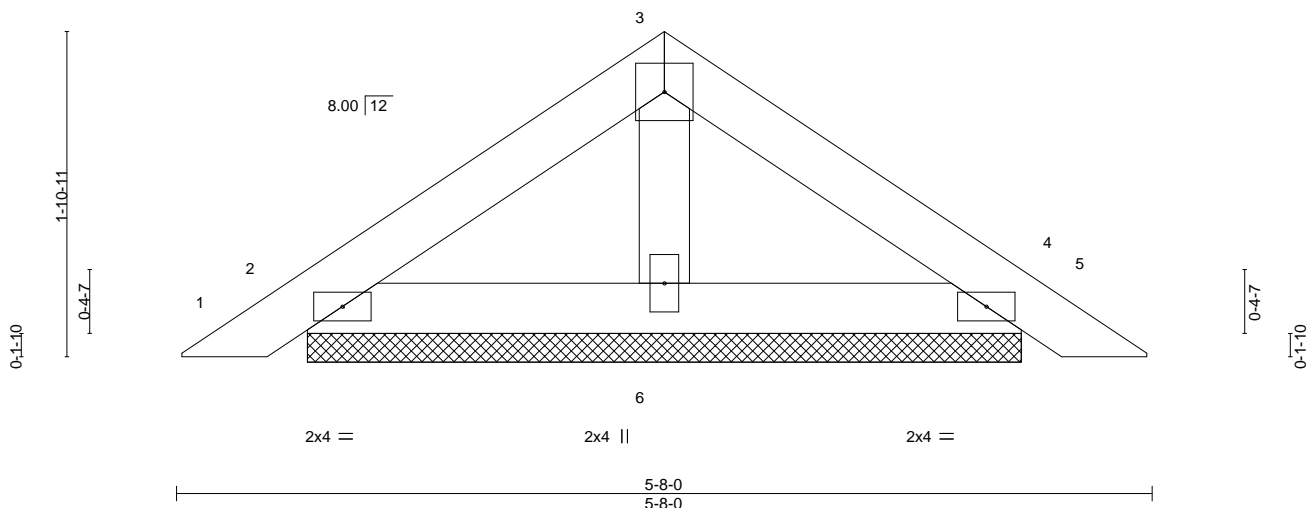
8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:01 2022 Page 1

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4x4 =

Scale = 1:13.4



LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06		Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04		Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02		Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPJ2014		Matrix-P							Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=4-1-12, 4=4-1-12, 6=4-1-12
Max Horz 2=38(LC 11)
Max Uplift 2=36(LC 12), 4=41(LC 13), 6=9(LC 12)
Max Grav 2=111(LC 1), 4=111(LC 1), 6=137(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 Exterior(2E) 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.
- 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 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, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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

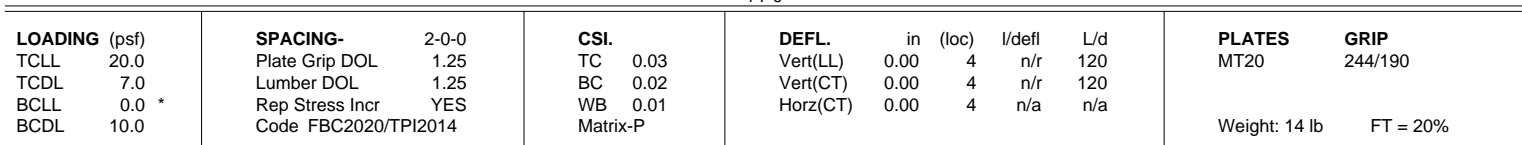
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:02 2022 Page 1
ID: ZUGJcnJtmLZ336HHPF6zRyd1jG-bypQWpd5ASxy5Pml1SzyC290?JXXBX0UnXv25Qy9jT7



REACTIONS. (size) 2=3-1-2, 4=3-1-2, 6=3-1-2
 Max Horz 2=-30(LC 10)
 Max Uplift 2=-31(LC 12), 4=-35(LC 13), 6=-5(LC 12)
 Max Grav 2=91(LC 1), 4=91(LC 1), 6=100(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=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) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0" o.c.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13, 2022



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 personnel 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 BCS1 Building C**

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385875
3363894	PB02	Piggyback	16	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:03 2022 Page 1
ID:_ZUGJcnJtmLZ336HHPF6zRyd1jG-39Noj9ejxm3piZLUBAUBkFIUYjpTwzEe?Bfbesy9jT6

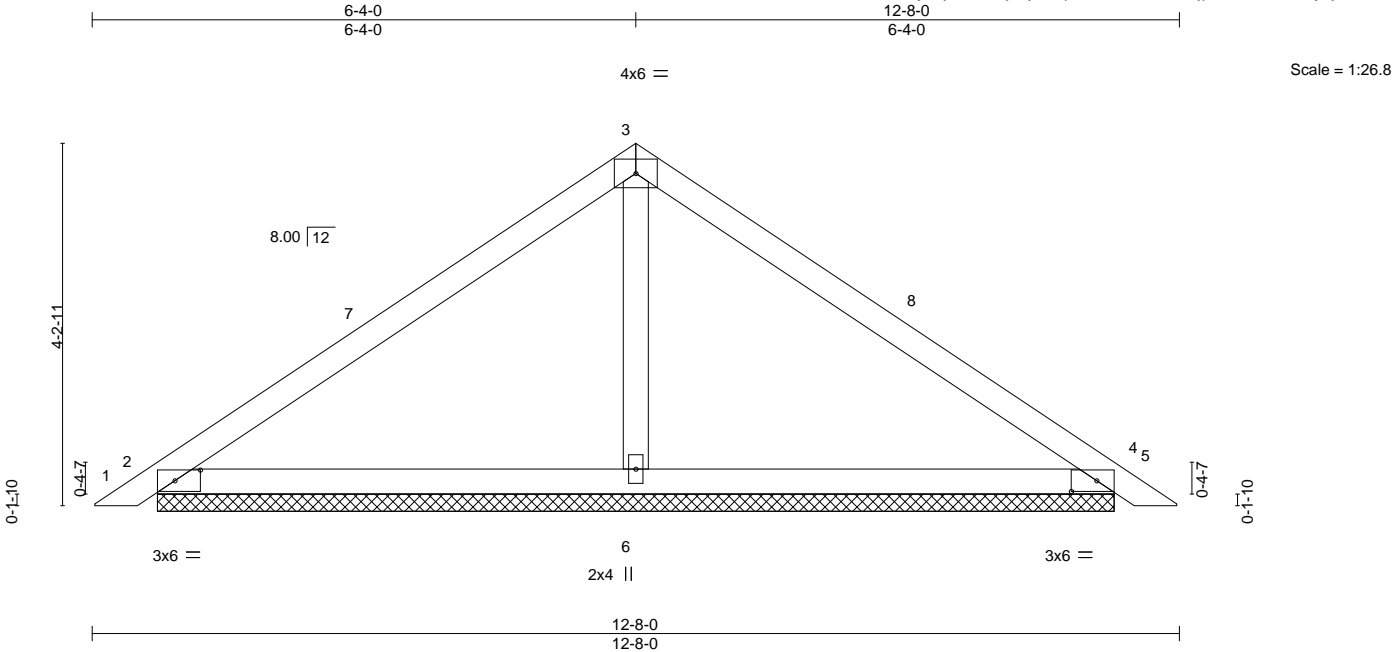


Plate Offsets (X,Y)--		[2:0-3-9,0-1-8], [4:0-3-9,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37
TCDL 7.0	Lumber DOL	1.25	BC 0.30
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.01 5 n/r 120
			Vert(CT) 0.02 5 n/r 120
			Horz(CT) 0.00 4 n/a n/a
			PLATES
			MT20
			GRIP
			244/190
			Weight: 44 lb FT = 20%

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

REACTIONS. (size) 2=11-1-12, 4=11-1-12, 6=11-1-12
Max Horz 2=-89(LC 10)
Max Uplift 2=-63(LC 12), 4=-75(LC 13), 6=-57(LC 12)
Max Grav 2=228(LC 1), 4=228(LC 1), 6=420(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-252/104

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 12-4-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 2-0-0 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) 2, 4, 6.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

Job 3363894	Truss PB02G	Truss Type GABLE	Qty 2	Ply 1	IC CONST. - WALDEN RES. T29385876
Job Reference (optional)					

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

8.530 s Aug 11 2022 MiTek Industries, Inc.
Mon Dec 12 11:39:04 2022
Page 1
ID:_ZUGJcnJtmLZ336HHPF6zRyd1jG-XLwAxVeLi3BgKjwg9t?QHTEje7CKfQOnErO9AJy9JT5

5-9-11

5-9-11

11-7-6

5-9-11

4x4 =

Scale = 1:24.5

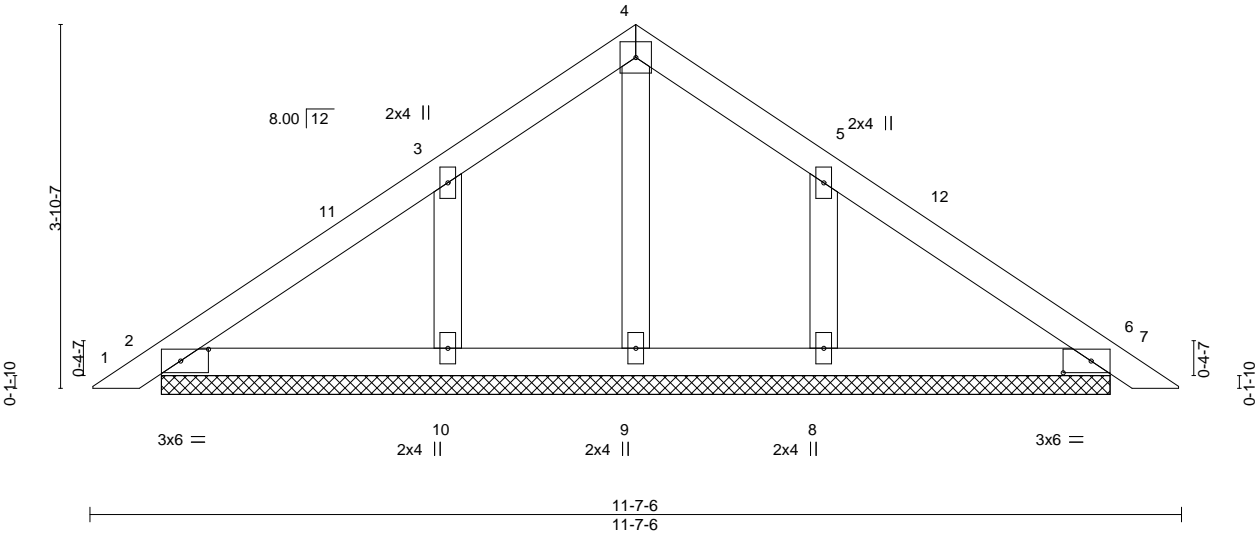


Plate Offsets (X,Y)--		[2:0-3-9,0-1-8], [6:0-3-9,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.09
TCDL 7.0	Lumber DOL	1.25	BC 0.07
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.00 7 n/r 120
			Vert(CT) 0.00 7 n/r 120
			Horz(CT) 0.00 6 n/a n/a
			PLATES
			MT20
			GRIP
			244/190
			Weight: 46 lb FT = 20%

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

REACTIONS. All bearings 10-1-2.
(lb) - Max Horz 2=-81(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-113(LC 12), 8=-113(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

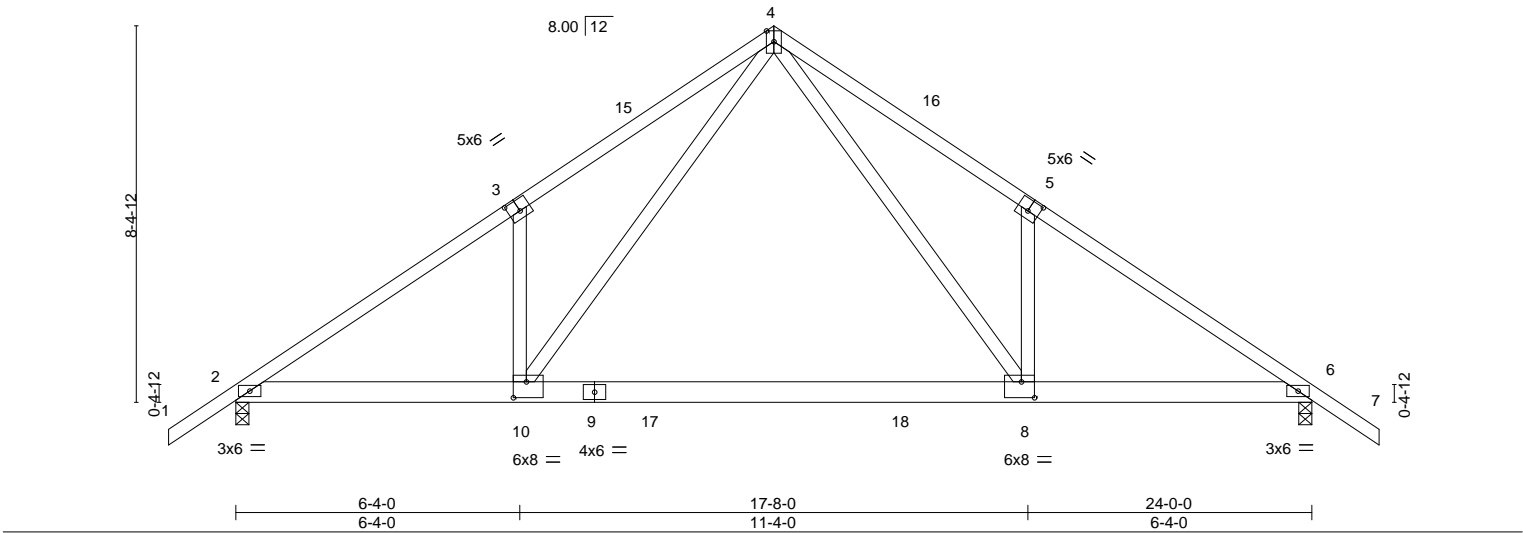
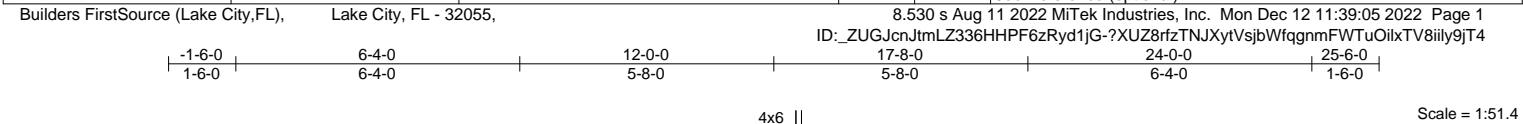
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 5-9-11, Exterior(2R) 5-9-11 to 8-9-11, Interior(1) 8-9-11 to 11-4-1 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, 6 except (jt=lb) 10=113, 8=113.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385877
3363894	T01	Common	1	1	Job Reference (optional)	



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 0.55	Vert(LL)	-0.26	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-0.49	8-10	>586	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 144 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins.
BOT CHORD 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-198(LC 10)
Max Uplift 2=-300(LC 12), 6=-300(LC 13)
Max Grav 2=1442(LC 19), 6=1442(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2300/436, 3-4=-2341/599, 4-5=-2341/599, 5-6=-2300/436
BOT CHORD 2-10=-381/1977, 8-10=-147/1131, 6-8=-272/1857
WEBS 4-8=-396/1452, 5-8=-332/253, 4-10=-396/1452, 3-10=-332/253

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-6-0 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, 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) 2=300, 6=300.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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, 2-10=-20, 8-10=-80(F=-60), 6-8=-20

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385878
3363894	T01G	GABLE	1	1	Job Reference (optional)	

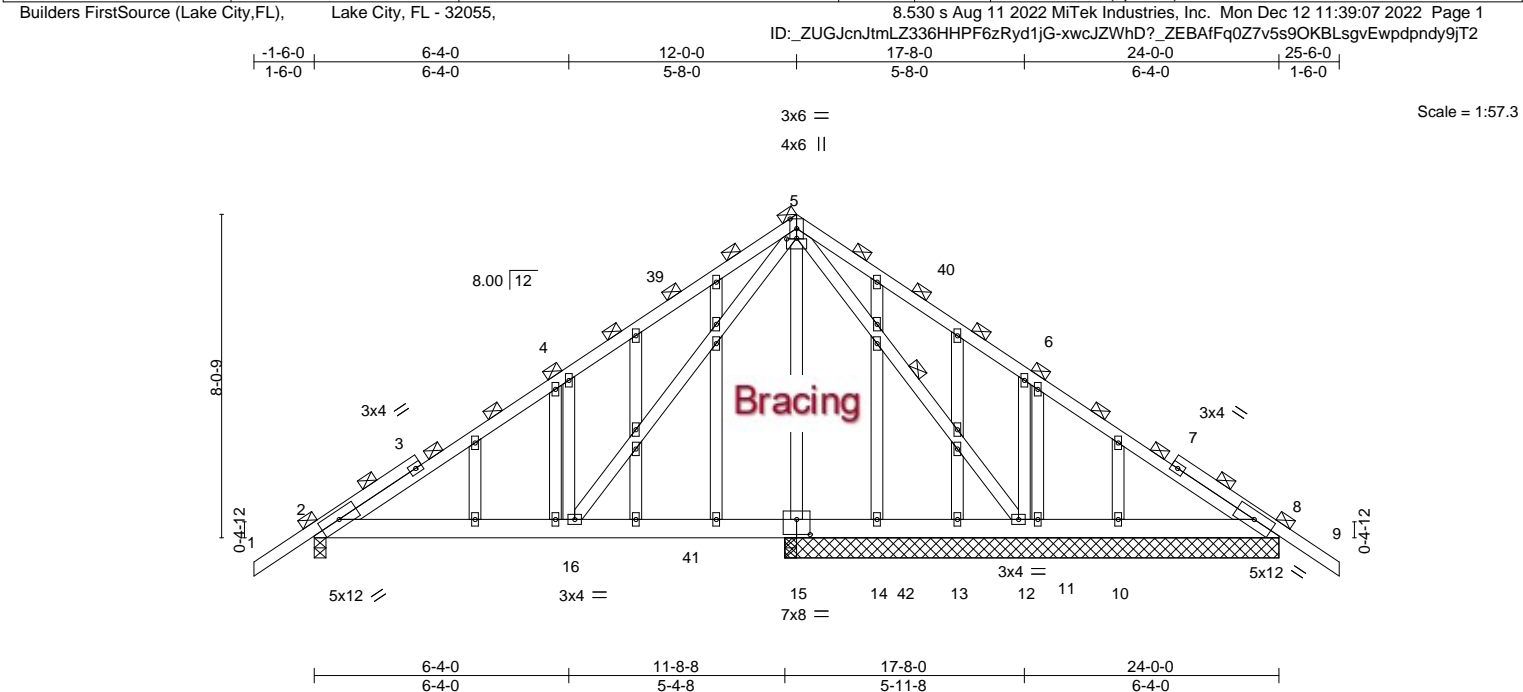


Plate Offsets (X,Y)-- [5:0-3-0,0-0-4], [15:0-4-0,0-4-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.04 16-35 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.06 16-35 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01 12 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 207 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (5-8-14 max.).
BOT CHORD 2x6 SP No.2	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-12
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 12-3-8 except (jt=length) 2=0-3-8.
(lb) - Max Horz	2=191(LC 11)
Max Uplift	All uplift 100 lb or less at joint(s) 8, 10 except 2=166(LC 12), 12=316(LC 13), 13=158(LC 18), 11=234(LC 20)
Max Grav	All reactions 250 lb or less at joint(s) 8, 13, 11, 10, 8 except 2=745(LC 19), 12=1057(LC 20), 14=450(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-869/161, 4-5=-962/329
BOT CHORD	2-16=-157/816, 14-16=-44/306, 13-14=-44/306, 12-13=-44/306
WEBS	5-12=-634/169, 6-12=-350/247, 5-16=-283/857, 4-16=-380/256

- 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-6-0 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, with BCDL = 10.0psf.
 - 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=166, 12=316, 13=158, 11=234.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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



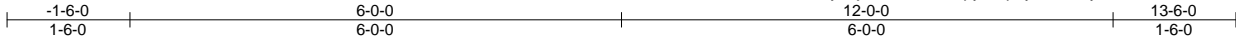
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385879
3363894	T01GG	Common Supported Gable	1	1	Job Reference (optional)	

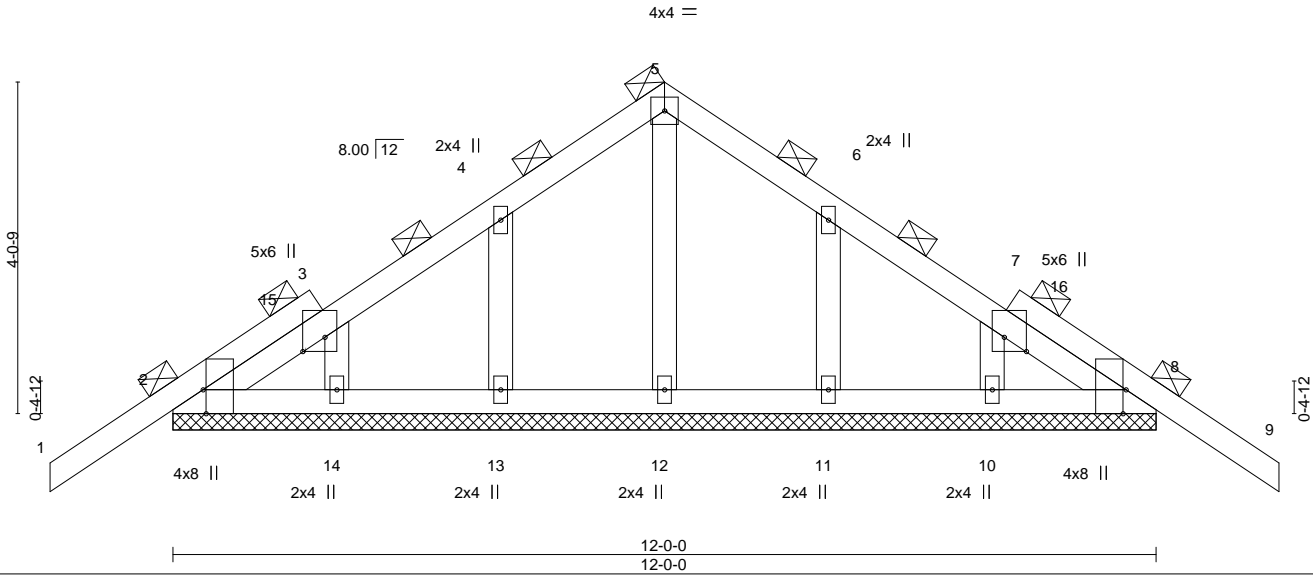
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:09 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-tlk3_CiUXcpyQUpeyQbb_WyY98w1KhMWO76wrWy9jT0



Scale = 1:28.1



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 0.17	Vert(LL)	-0.01	9	n/r	120	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.01	9	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	8	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						
								Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
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 12-0-0.
 (lb) - Max Horz 2=102(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 13-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

December 13,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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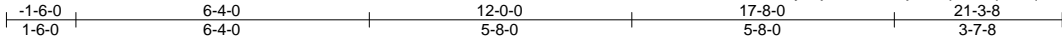
16023 Swingley Ridge Rd
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385880
3363894	T02	Common	4	1		

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:10 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-MVISBYj6Hvxp2eOqV86qXkUe1XAX3z4gcnrTNyy9JT?



4x6 ||

Scale = 1:49.7

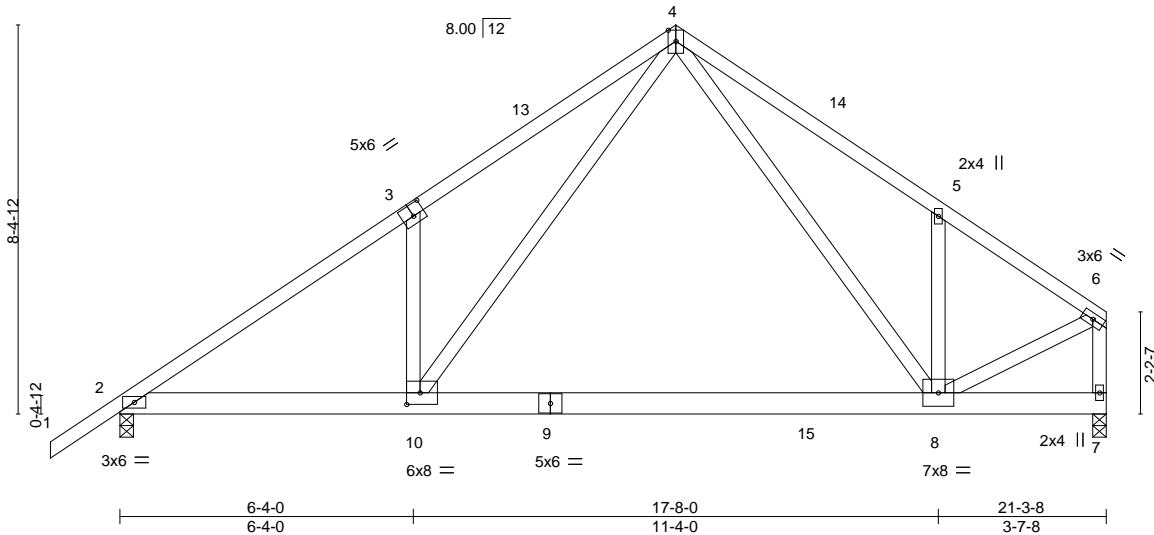


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [10:0-3-8,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.22 8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.41 8-10	>616	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.01 7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 138 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
Max Horz 2=186(LC 9)
Max Uplift 2=271(LC 12), 7=245(LC 13)
Max Grav 2=1280(LC 19), 7=1281(LC 20)

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

TOP CHORD 2-3=-1998/382, 3-4=-2040/545, 4-5=-1535/428, 5-6=-1451/275, 6-7=-1498/280
BOT CHORD 2-10=-387/1702, 8-10=-156/870
WEBS 3-10=-334/253, 4-10=-393/1428, 4-8=-238/718, 5-8=-304/227, 6-8=-229/1362

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 21-1-12 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) except (jt=lb) 2=271, 7=245.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-10=-20, 8-10=-80(F=-60), 7-8=-20

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Date:

December 13,2022

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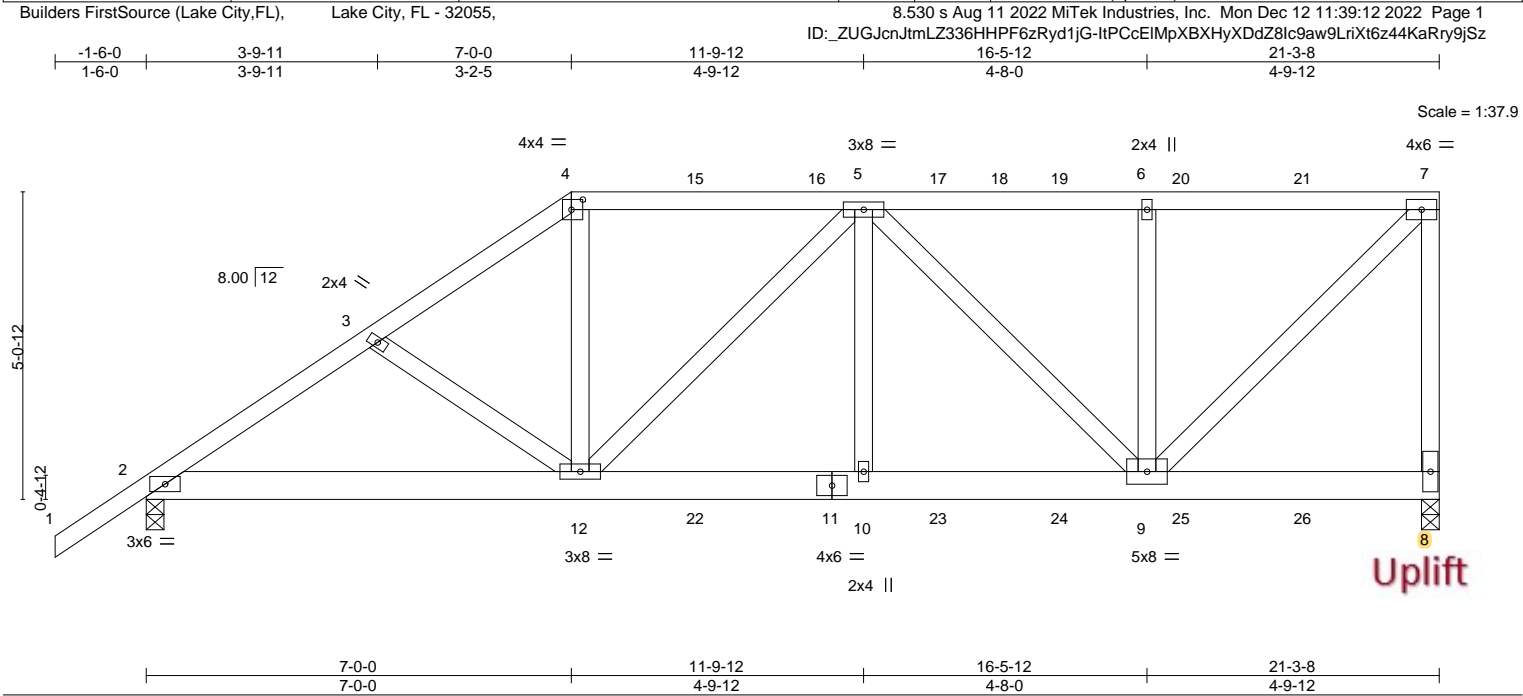
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385881
3363894	T03	Half Hip Girder	1	1	Job Reference (optional)	



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 0.76	Vert(LL)	-0.07 10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.13 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.74	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 145 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-7 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-3-6 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=191(LC 27)
Max Uplift 8=712(LC 5), 2=526(LC 8)
Max Grav 8=1826(LC 1), 2=1507(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2314/842, 3-4=-2164/815, 4-5=-1785/718, 5-6=-1388/534, 6-7=-1388/534, 7-8=-1538/625
BOT CHORD 2-12=-805/1888, 10-12=-779/1973, 9-10=-779/1973
WEBS 4-12=-315/942, 5-12=-324/183, 5-10=-138/487, 5-9=-830/360, 6-9=-309/181, 7-9=-746/1943

- 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; 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.
 - 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 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) 8=712, 2=526.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 51 lb up at 7-0-0, 66 lb down and 49 lb up at 9-0-12, 66 lb down and 49 lb up at 11-0-12, 66 lb down and 49 lb up at 13-0-12, 66 lb down and 49 lb up at 15-0-12, 66 lb down and 49 lb up at 17-0-12, and 66 lb down and 49 lb up at 19-0-12, and 56 lb down and 51 lb up at 21-1-12 on top chord, and 424 lb down and 218 lb up at 7-0-0, 156 lb down and 78 lb up at 9-0-12, 156 lb down and 78 lb up at 11-0-12, 156 lb down and 78 lb up at 13-0-12, 156 lb down and 78 lb up at 15-0-12, 156 lb down and 78 lb up at 17-0-12, and 156 lb down and 78 lb up at 19-0-12, and 163 lb down and 70 lb up at 21-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Date:

December 13,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385881
3363894	T03	Half Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:12 2022 Page 2
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-ItPCcEIMpXBXHyXDdZ8lc9aw9LriXt6z44KaRny9jSz

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, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-18(F) 8=-163(F) 11=-156(F) 12=-424(F) 7=-38(F) 15=-18(F) 16=-18(F) 17=-18(F) 19=-18(F) 20=-18(F) 21=-18(F) 22=-156(F) 23=-156(F) 24=-156(F)
25=-156(F) 26=-156(F)

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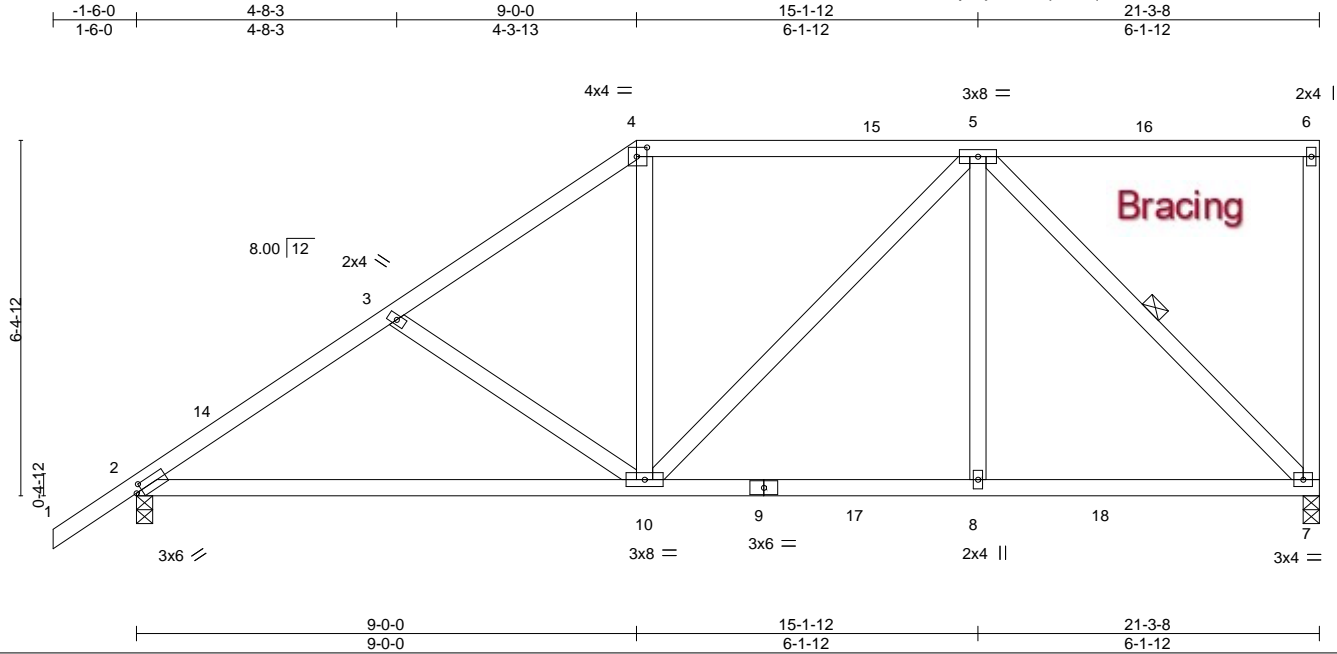
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385882
3363894	T04	Half Hip	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:13 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-m4zapaL_aqJOv56PBGfX8M6ADl8CGQ96Jk47zHy9jSy



Scale = 1:41.5

Plate Offsets (X,Y)--		[2:0-1-5,0-1-8], [4:0-2-4,0-2-0]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.14 10-13 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.30 10-13 >858 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03 7 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 127 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 4-11-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS.

(size) 7=0-3-8, 2=0-3-8
Max Horz 2=237(LC 12)
Max Uplift 7=200(LC 9), 2=202(LC 12)
Max Grav 7=880(LC 2), 2=925(LC 19)

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

TOP CHORD 2-3=-1163/255, 3-4=-984/214, 4-5=-772/218
BOT CHORD 2-10=-356/967, 8-10=-155/674, 7-8=-155/674
WEBS 3-10=-300/167, 4-10=0/318, 5-8=0/314, 5-7=-943/221

NOTES-

- 1) 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 21-1-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=200, 2=202.

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-1-6-0	5-8-3	11-0-0	13-0-0	17-0-0	21-3-8
1-6-0	5-8-3	5-3-13	2-0-0	4-0-0	4-3-8

[illegible]

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

TOP CHORD	2-3=-1135/223, 3-4=-759/191, 4-5=-546/184, 5-6=-723/195
BOT CHORD	2-12=-258/885, 10-12=-258/885, 9-10=-98/559, 8-9=-97/545
WEBS	3-10=-429/199, 6-8=-761/152

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=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) 1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2E) 11-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-1-3, Interior(1) 17-1-3 to 21-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 2-0-0 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) except (jt=lb)
2=194, 8=144.

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385884
3363894	T06	Hip Girder	1	2	Job Reference (optional)	

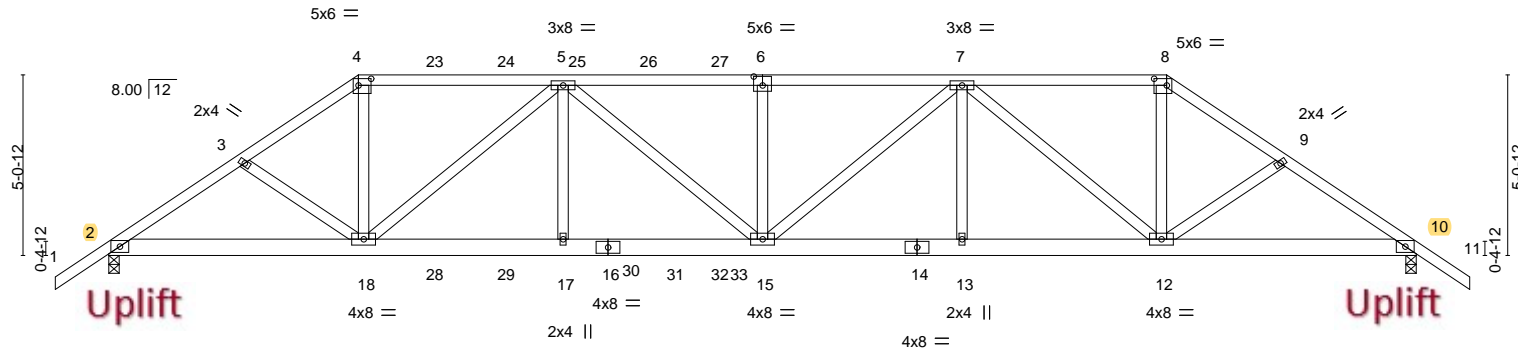
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:18 2022 Page 1

ID: ZUGJcnJtmLZ336HHPF6zRyd1jG-71nTtHp7PNyh0t?MzpFirQq2LmpuxeNrS0nufVy9jSt

-1-6-0	3-9-11	7-0-0	12-8-14	18-4-0	23-11-2	29-8-0	32-10-5	36-8-0	38-2-0
1-6-0	3-9-11	3-2-5	5-8-14	5-7-2	5-7-2	5-8-14	3-2-5	3-9-11	1-6-0

Scale: 3/16"=1'



	7-0-0	12-8-14	18-4-0	23-11-2	29-8-0	36-8-0
	7-0-0	5-8-14	5-7-2	5-7-2	5-8-14	7-0-0

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 0.33	Vert(LL) -0.20 15-17 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.82	Vert(CT) -0.38 15-17 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.56	Horz(CT) 0.09 10 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 469 lb	FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 10=0-3-8
	Max Horz 2=125(LC 25)
	Max Uplift 2=929(LC 8), 10=697(LC 9)
	Max Grav 2=2950(LC 1), 10=2384(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-4896/1562, 3-4=-4744/1538, 4-5=-3985/1333, 5-6=-6438/1983, 6-7=-6438/1983, 7-8=-3120/977, 8-9=-3725/1119, 9-10=-3881/1145
BOT CHORD	2-18=-1324/4027, 17-18=-1906/5891, 15-17=-1906/5891, 13-15=-1446/4977, 12-13=-1446/4977, 10-12=-866/3186
WEBS	4-18=-711/2352, 5-18=-2524/840, 5-17=-215/752, 5-15=-152/747, 6-15=-303/162, 7-15=-706/1945, 7-12=-2465/838, 8-12=-509/1819

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 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 7-16; 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.
 - 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 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) 2=929, 10=697.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 51 lb up at 7-0-0, 66 lb down and 49 lb up at 9-0-12, 66 lb down and 49 lb up at 11-0-12, 66 lb down and 49 lb up at 13-0-12, and 66 lb down and 49 lb up at 15-0-12, and 66 lb down and 49 lb up at 17-0-12 on top chord, and 424 lb down and 218 lb up at 7-0-0, 156 lb down and 78 lb up at 9-0-12, 156 lb down and 78 lb up at 11-0-12, 156 lb down and 78 lb up at 13-0-12, 156 lb down and 78 lb up at 15-0-12, and 156 lb down and 78 lb up at 17-0-12, and 1147 lb down and 322 lb up at 17-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.
3363894	T06	Hip Girder	1	2	T29385884

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:18 2022 Page 2
ID:_ZUGJcnJtmLZ336HHPF6zRyd1jG-71nTtHp7PNyh0t?MzpFirQq2LmpuxeNrS0nufVy9jSt

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 8-11=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-18(B) 18=-424(B) 23=-18(B) 24=-18(B) 25=-18(B) 26=-18(B) 27=-18(B) 28=-156(B) 29=-156(B) 30=-156(B) 31=-156(B) 32=-156(B) 33=-1147(B)

 **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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385885
3363894	T07	Hip	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:19 2022 Page 1
 ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-bEKr4dqAg4Xd1aZXXmxOdMDuA8Vg2A?hgXRBxy9jSs
 -1-6-0 4-8-3 9-0-0 13-3-11 18-4-0 23-4-5 27-8-0 31-11-13 36-8-0 38-2-0
 1-6-0 4-8-3 4-3-13 4-3-11 5-0-5 5-0-5 4-3-11 4-3-13 4-8-3 1-6-0
 Scale: 3/16"=1'

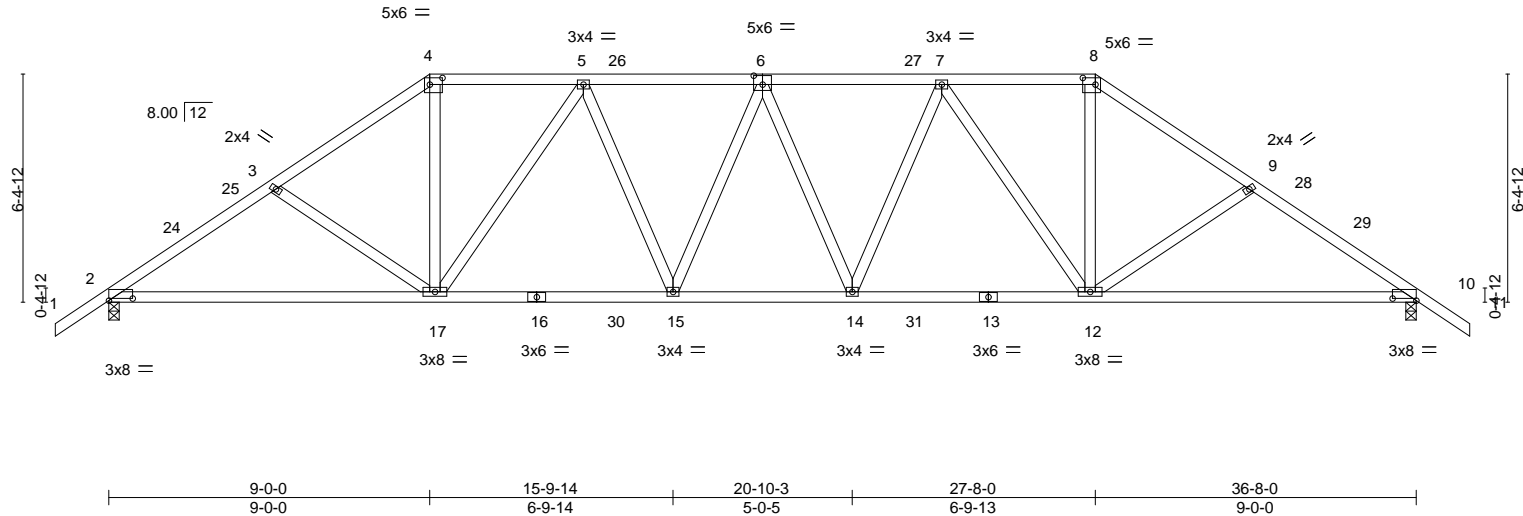


Plate Offsets (X,Y)--		[2:0-8-0,0-0-12], [4:0-4-4,0-2-4], [6:0-3-0,0-3-0], [8:0-4-4,0-2-4], [10:0-8-0,0-0-12]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d
TCDL 7.0	Plate Grip DOL 1.25	BC 0.86	Vert(LL) -0.18 15-17 >999 240
BCLL 0.0 *	Lumber DOL 1.25	WB 0.72	Vert(CT) -0.33 12-23 >999 180
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.11 10 n/a n/a
	Code FBC2020/TPI2014		
			PLATES MT20
			GRIP 244/190
			Weight: 212 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-6 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 10=0-3-8
	Max Horz 2=155(LC 10)
	Max Uplift 2=324(LC 12), 10=324(LC 13)
	Max Grav 2=1547(LC 2), 10=1547(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2267/470, 3-4=-2092/428, 4-5=-1709/397, 5-6=-2200/437, 6-7=-2200/437, 7-8=-1708/397, 8-9=-2092/428, 9-10=-2267/470
BOT CHORD	2-17=-401/1867, 15-17=-407/2069, 14-15=-419/2247, 12-14=-349/2069, 10-12=-297/1867
WEBS	3-17=-286/169, 4-17=-129/961, 5-17=-685/245, 5-15=-83/378, 7-14=-83/378, 7-12=-685/245, 8-12=-129/961, 9-12=-286/169

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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) -1-6-0 to 2-2-0, Interior(1) 2-2-0 to 9-0-0, Exterior(2R) 9-0-0 to 14-2-4, Interior(1) 14-2-4 to 27-8-0, Exterior(2R) 27-8-0 to 32-10-4, Interior(1) 32-10-4 to 38-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 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 2-0-0 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) except (jt=lb) 2=324, 10=324.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

December 13,2022

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



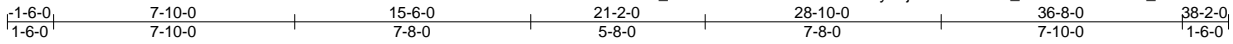
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385886
3363894	T08	Piggyback Base	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:20 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-3QuElzrNx_COFA9I5EIAwrvl_ZUoPb48wKG?jNy9jSr



TOP CHORD UNDER PIGGYBACKS TO BE Laterally Braced BY PURLINS AT 2-0-0 OC. MAX. (TYPICAL)

5x6 =

5x8 =

Scale = 1:74.8

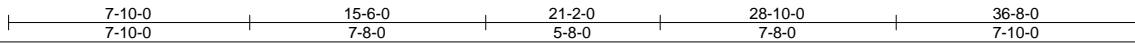
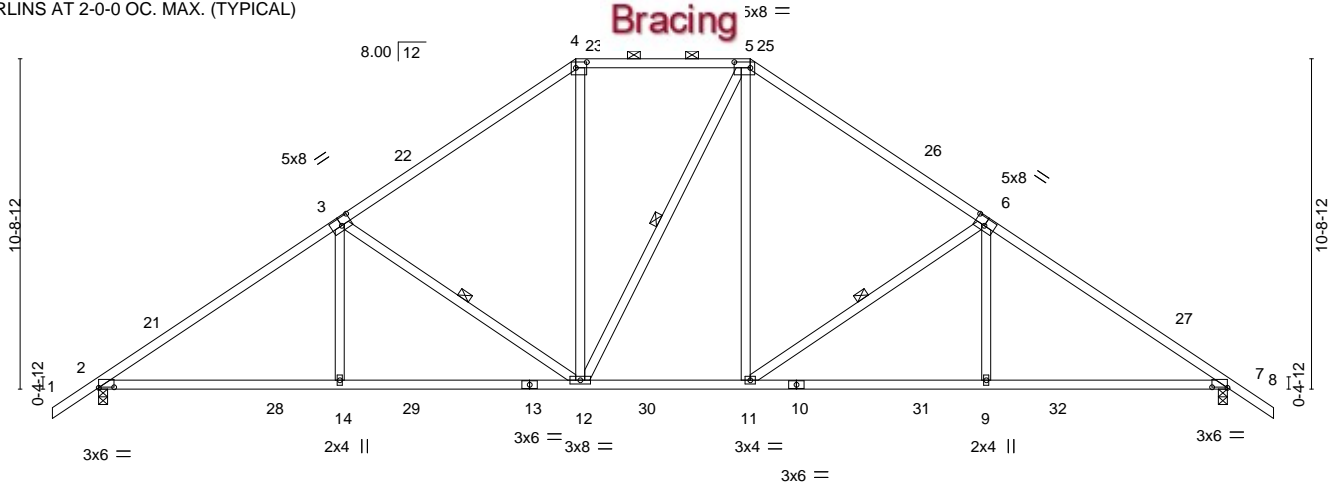


Plate Offsets (X,Y)--	[2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-4-4,0-2-4], [5:0-6-4,0-2-4], [6:0-4-0,0-3-0], [7:0-6-0,0-0-3]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL)	-0.16 9-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.29 9-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.10 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 213 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 2-2-0 oc purlins, except 2-0-0 oc purlins (4-9-9 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 9-2-14 oc bracing.
WEBS 1 Row at midpt 3-12, 5-12, 6-11

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
Max Horz 2=250(LC 10)
Max Uplift 2=309(LC 12), 7=309(LC 13)
Max Grav 2=1627(LC 19), 7=1629(LC 20)

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

TOP CHORD 2-3=-2352/412, 3-4=-1716/358, 4-5=-1346/361, 5-6=-1720/358, 6-7=-2357/412
BOT CHORD 2-14=-383/2035, 12-14=-383/2037, 11-12=-99/1352, 9-11=-214/1899, 7-9=-214/1898
WEBS 3-14=0/417, 3-12=-788/289, 4-12=-110/664, 5-11=-119/696, 6-11=-789/289, 6-9=0/417

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) -1-6-0 to 2-2-0, Interior(1) 2-2-0 to 15-6-0, Exterior(2R) 15-6-0 to 20-8-4, Interior(1) 20-8-4 to 21-2-0, Exterior(2R) 21-2-0 to 26-4-4, Interior(1) 26-4-4 to 38-2-0 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.
- 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 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=lb) 2=309, 7=309.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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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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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385888
3363894	T09	Piggyback Base	3	1		

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:24 2022 Page 1	
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-xB8k7Kuu_DiqkoSWK4M65h3_?BrOLO_kryECs8y9jSn					
-1-6-0	7-10-0	15-6-0	21-2-0	28-10-0	36-8-0
1-6-0	7-10-0	7-8-0	5-8-0	7-8-0	7-10-0

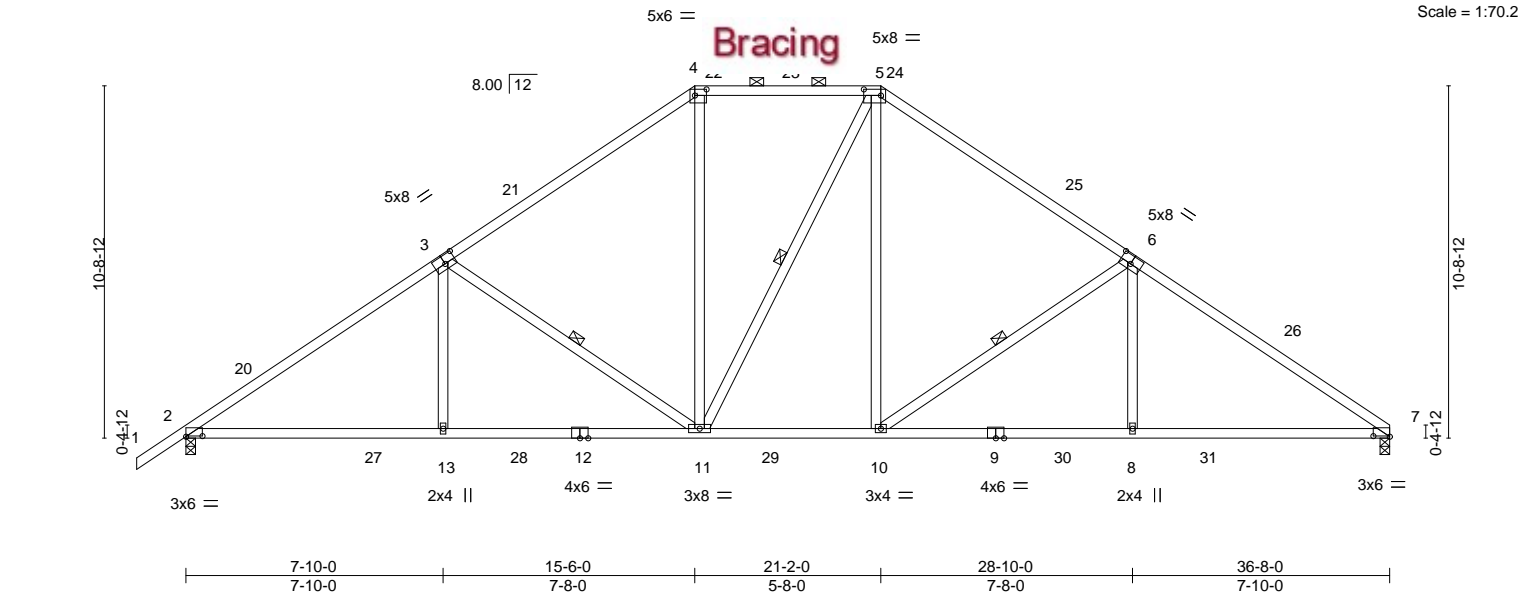


Plate Offsets (X,Y)--		[2:0-6-0,0-0-3], [3:0-4-0,0-3-0], [4:0-4-4,0-2-4], [5:0-6-4,0-2-4], [6:0-4-0,0-3-0], [7:0-6-0,0-0-3]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2020/TPI2014
	CSI.	TC 0.70
	BC 0.87	
	WB 0.36	
	Matrix-MS	
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	-0.15 8-10 >999 240
	Vert(CT)	-0.29 8-10 >999 180
	Horz(CT)	0.10 7 n/a n/a
	PLATES	MT20
	GRIP	244/190
	Weight: 211 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-9-8 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.
	WEBS 1 Row at midpt 3-11, 5-11, 6-10
REACTIONS.	
(size) 2=0-3-8, 7=0-3-8	
Max Horz 2=243(LC 9)	
Max Uplift 2=-309(LC 12), 7=-276(LC 13)	
Max Grav 2=1628(LC 19), 7=1553(LC 20)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-2355/413, 3-4=-1718/358, 4-5=-1348/362, 5-6=-1724/360, 6-7=-2367/420	
BOT CHORD 2-13=-398/2026, 11-13=-398/2027, 10-11=-114/1352, 8-10=-251/1909, 7-8=-251/1908	
WEBS 3-13=0/417, 3-11=-788/289, 4-11=-111/666, 5-10=-122/700, 6-10=-800/296, 6-8=0/419	

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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) -1-6-0 to 2-2-0, Interior(1) 2-2-0 to 15-6-0, Exterior(2R) 15-6-0 to 20-8-4, Interior(1) 20-8-4 to 21-2-0, Exterior(2R) 21-2-0 to 26-4-4, Interior(1) 26-4-4 to 36-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 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 2-0-0 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) except (jt=lb) 2=309, 7=276.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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

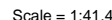
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:25 2022 Page 1

ID: ZUGJcnJtmLZ336HHPF6zRvd1jG-PNj7LqyWlWqhLv1juotLducDXaCf4tft3c mObv9jSm



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

NOTES-

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13, 2022



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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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385890
3363894	T11	Common	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:26 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-uaGVY0v8WqyYz5cvRVOaA69OF_YwpKw1IGjX1y9jSI

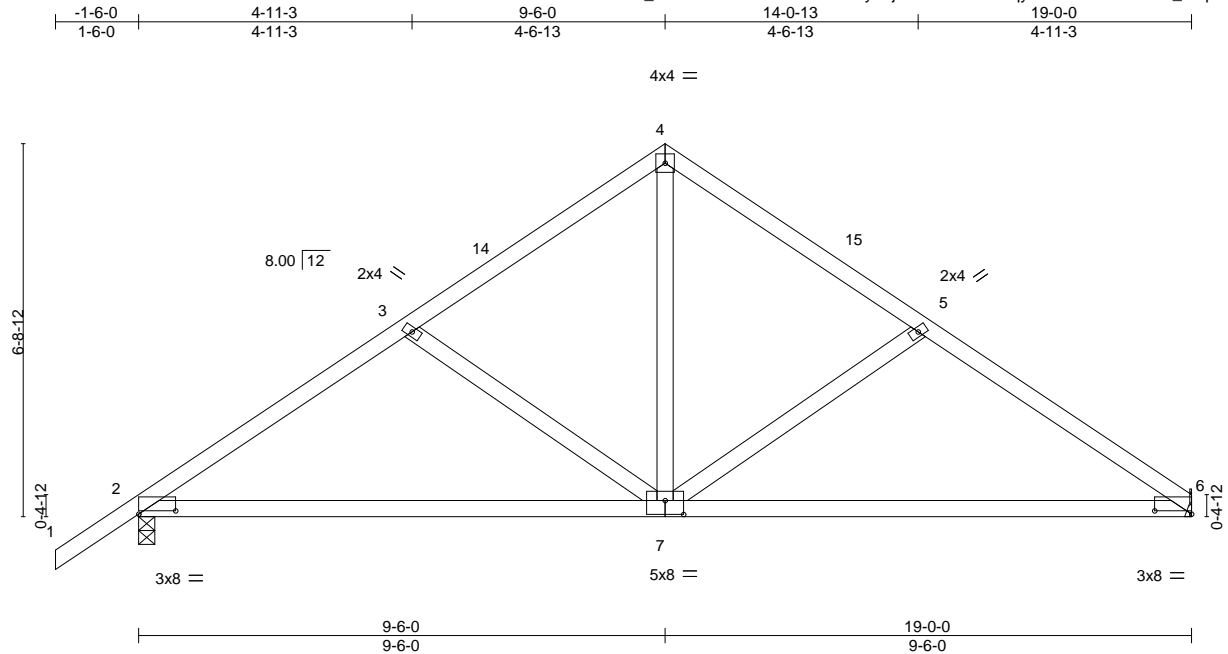


Plate Offsets (X,Y)-- [2:0-8-0,0-0-12], [6:0-8-0,0-0-11], [7:0-4-0,0-0-3-0]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.13	7-10	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.28	7-10	>824	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.02	6	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014		Matrix-MS						Weight: 91 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=154(LC 9)
Max Uplift 6=138(LC 13), 2=172(LC 12)
Max Grav 6=700(LC 1), 2=787(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-958/207, 3-4=-742/183, 4-5=-743/187, 5-6=-963/214
BOT CHORD 2-7=-196/770, 6-7=-125/777
WEBS 4-7=-100/542, 5-7=-297/190, 3-7=-286/183

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-6-0, Exterior(2R) 9-6-0 to 12-6-0, Interior(1) 12-6-0 to 19-0-0 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.
- 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) 6=138, 2=172.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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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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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385891
3363894	T12	Common	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:27 2022 Page 1
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-MmptmMwmH84PbFB5?CwpjJhZjO_iYphAXwTsTTY9jSk

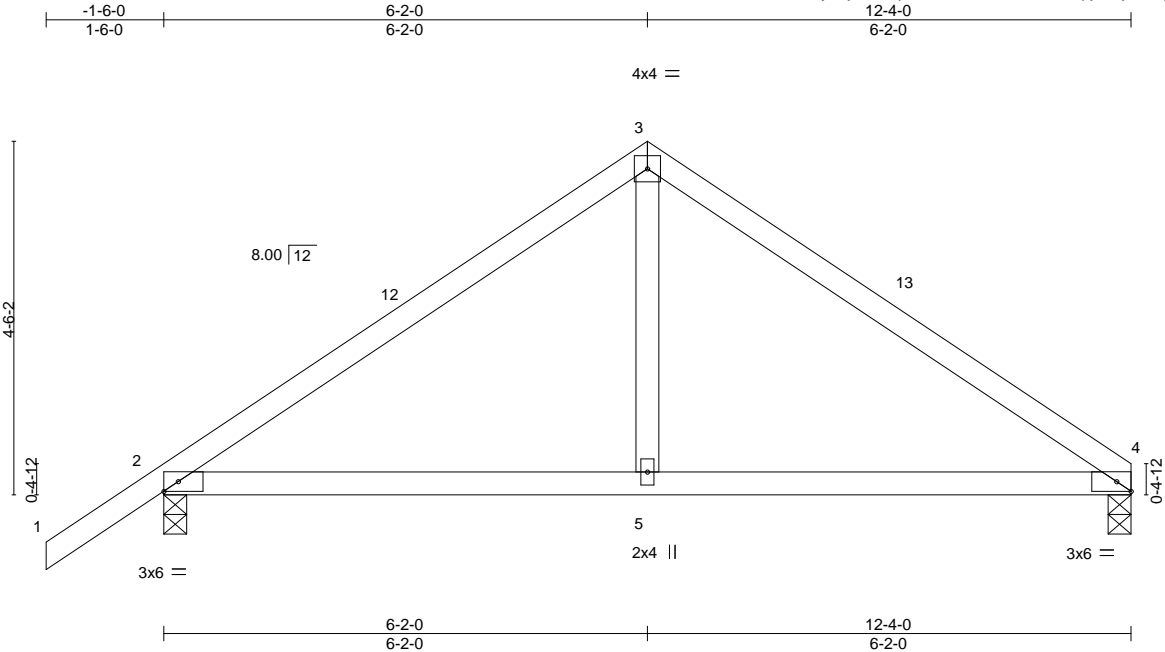


Plate Offsets (X,Y)--		[4:0-2-3,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.42		Vert(LL)	-0.05 5-8	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.39		Vert(CT)	-0.09 5-8	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.11		Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 49 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) 4=0-3-8, 2=0-3-8
Max Horz 2=105(LC 9)
Max Uplift 4=89(LC 13), 2=124(LC 12)
Max Grav 4=451(LC 1), 2=542(LC 1)

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

TOP CHORD 2-3=-549/163, 3-4=-547/165
BOT CHORD 2-5=-50/386, 4-5=-50/386
WEBS 3-5=-8/285

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-2-0, Exterior(2R) 6-2-0 to 9-2-0, Interior(1) 9-2-0 to 12-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=124.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385893
3363894	T13	Piggyback Base	6	1		

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:30 2022 Page 1
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-mLV0OOzfa3T_SjvggLTWKxJytbJl21cDuhX4oy9jSh

1-6-0

7-1-15

12-8-3

18-0-0

23-6-0

29-10-0

36-2-0

40-9-0

45-7-8

47-2-0

1-6-0

7-1-15

5-6-3

5-3-13

5-6-0

6-4-0

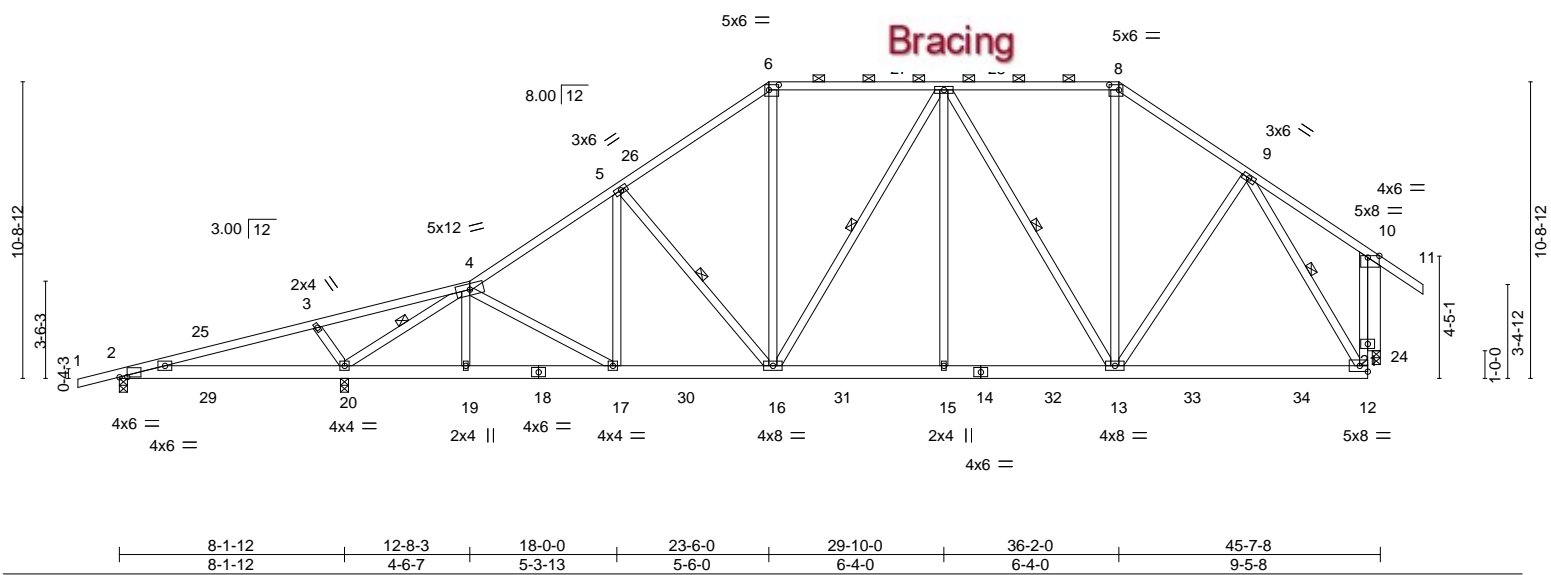
6-4-0

4-7-0

4-10-8

1-6-8

Scale = 1:83.4



Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.
3363894	T13G	GABLE Gable Gable COMMON Gable	1	1	T29385894
Job Reference (optional)					

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:37 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-3hQfsn22xCL_noyObJ597Q6CXQOtUd?eqTuOquy9jSa

1-6-0	6-9-15	12-8-3	18-0-0	24-0-5	29-10-0	35-7-11	40-9-0	45-7-8	47-2-0
1-6-0	6-9-15	5-10-3	5-3-13	6-0-5	5-9-11	5-9-11	5-1-5	4-10-8	1-6-8

Scale = 1:89.8

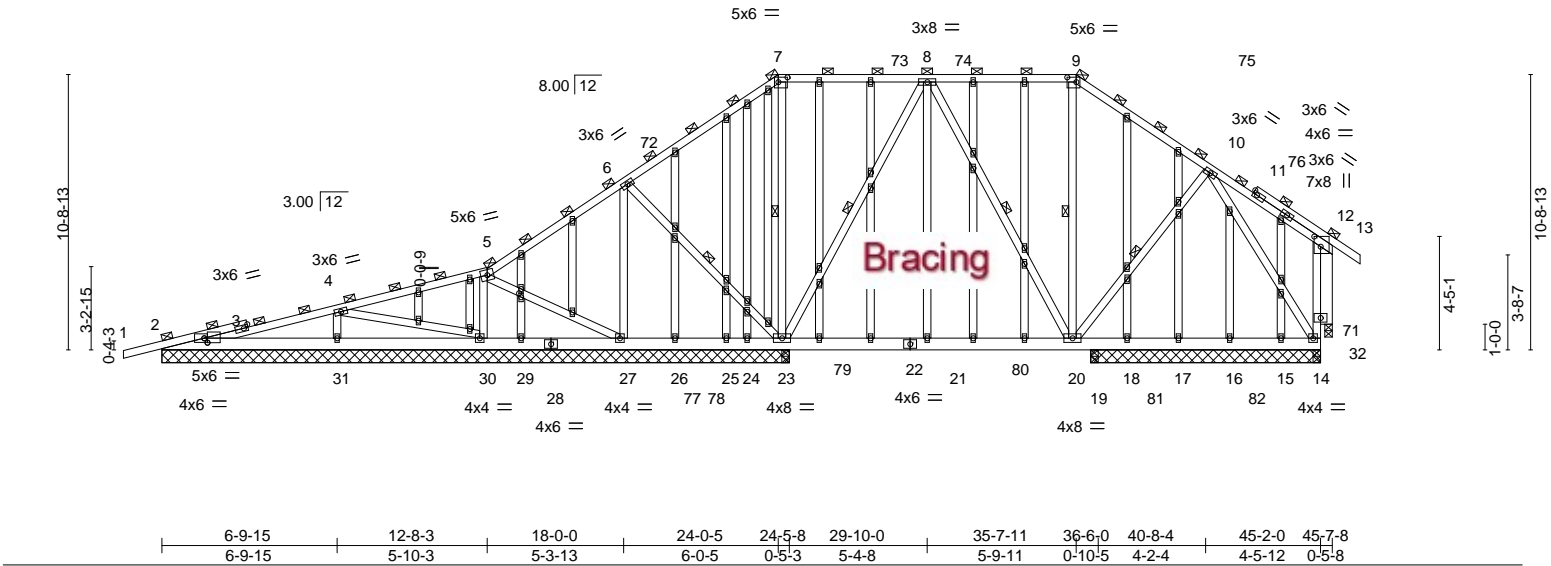


Plate Offsets (X,Y)--		[2:0-1-8,0-2-2], [2:0-1-8,0-2-0], [7:0-4-4,0-2-4], [9:0-4-4,0-2-4], [12:0-4-12,0-3-0], [60:0-1-14,0-1-0]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2020/TPI2014
	CSI.	TC 0.65
		BC 0.40
		WB 0.63
		Matrix-MS
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	0.18 68 >454 240
	Vert(CT)	-0.22 68 >376 180
	Horz(CT)	0.02 71 n/a n/a
	PLATES	MT20
	GRIP	244/190
	Weight:	514 lb
	FT =	20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3 *Except*
12-32: 2x6 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (4-9-8 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-7 oc bracing.
WEBS 1 Row at midpt 6-23, 7-23, 8-23, 8-20, 9-20, 10-20

REACTIONS.

All bearings 24-5-8 except (jt=length) 14=8-11-8, 14=8-11-8, 15=8-11-8, 16=8-11-8,
17=8-11-8, 18=8-11-8, 19=0-3-8, 71=0-3-8.
(lb) - Max Horz 2=297(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 30, 15, 29, 26, 25 except
31=539(LC 8), 27=107(LC 12), 23=193(LC 9), 14=153(LC 13), 24=151(LC 18),
18=262(LC 26), 19=173(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 30, 15, 16, 17, 18, 29, 26, 25
except 31=1047(LC 25), 27=278(LC 19), 23=1027(LC 2), 23=888(LC 1),
14=520(LC 24), 14=502(LC 1), 19=673(LC 26)

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

TOP CHORD 2-4=-1433/1458, 4-5=-413/431, 9-10=-268/174
BOT CHORD 2-31=-1386/1449, 30-31=-1386/1449, 29-30=-411/476, 27-29=-411/476
WEBS 4-31=-790/609, 4-30=-984/1030, 5-30=-495/307, 5-27=-286/356, 6-27=-323/193,
7-23=-328/144, 8-23=-561/178, 8-21=0/345, 10-14=-371/61

NOTES-

- 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 and C-C Exterior(2E) -1-6-0 to 2-10-3, Interior(1) 2-10-3 to 24-0-5, Exterior(2R) 24-0-5 to 28-7-1, Interior(1) 28-7-1 to 35-7-11, Exterior(2R) 35-7-11 to 40-2-7, Interior(1) 40-2-7 to 46-8-8 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. 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.
- 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 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 71 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.
3363894	T13G	GABLE Gable Gable COMMON Gable	1	1	T29385894
Job Reference (optional)					

- NOTES-**
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 15, 29, 26, 25 except (jt=lb) 31=539, 27=107, 23=193, 14=153, 24=151, 18=262, 19=173.
- 12) 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	IC CONST. - WALDEN RES.	T29385895
3363894	T15	Piggyback Base	5	1		

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

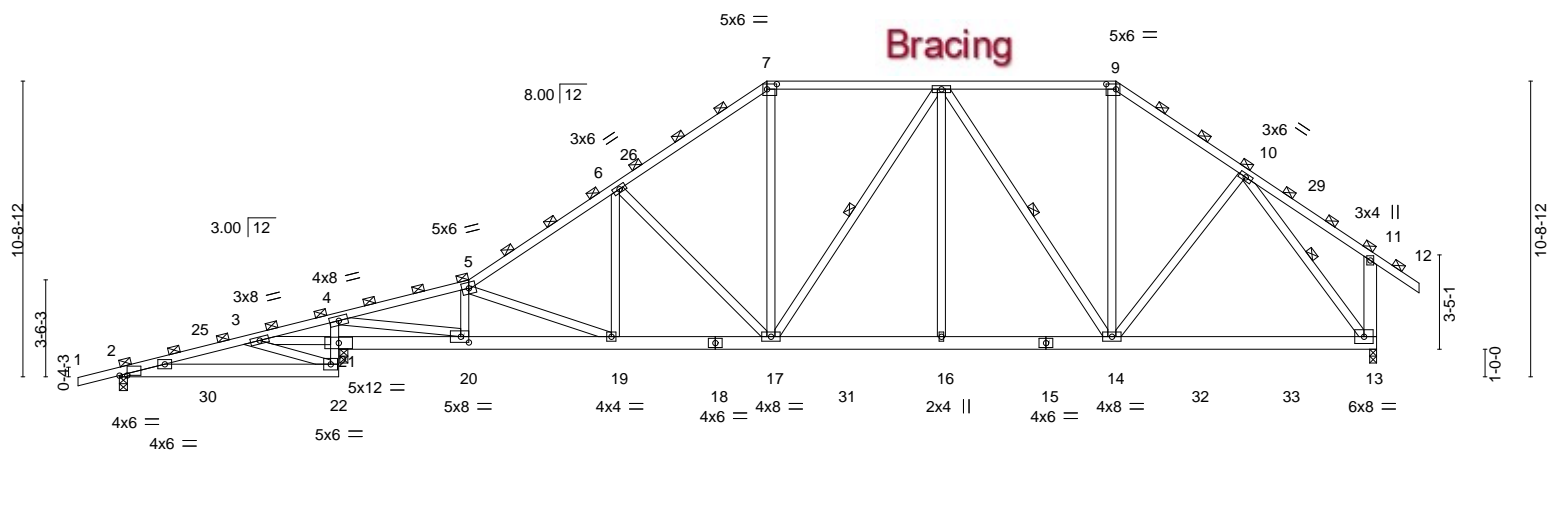
8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:39 2022 Page 1

1-6-0
4-9-10
7-11-8
12-8-3
18-0-0
23-6-0
29-10-0
36-2-0
40-9-0
45-7-8
47-2-0

1-6-0
4-9-10
3-1-14
4-8-11
5-3-13
5-6-0
6-4-0
6-4-0
4-7-0
4-10-8
1-6-8

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-74YPHT4tSqbi156Pik7dCrBb4E1BM3qxHnNVuny9jSY

Scale = 1:83.6



	7-11-8	8-0-0	12-8-3	18-0-0	23-6-0	29-10-0	36-2-0	45-7-8	
	7-11-8	0-0-8	4-8-3	5-3-13	5-6-0	6-4-0	6-4-0	9-5-8	

Plate Offsets (X,Y)--	[2:0-3-6,0-0-1], [7:0-4-4,0-2-4], [9:0-4-4,0-2-4], [20:0-3-8,0-2-8]							
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	-0.14 19-20	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.25 19-20	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.05 13	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 335 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (3-2-8 max.), except end verticals, and sheathed or
BOT CHORD 2x6 SP No.2 *Except*	4-5-7 oc purlins: 7-9.
4-22: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 8-17, 8-14, 10-13
4-20: 2x4 SP No.2, 11-13: 2x6 SP No.2	

REACTIONS.	(size) 2=0-3-8, 21=0-3-8, 13=0-3-0
	Max Horz 2=294(LC 11)
	Max Uplift 2=-212(LC 8), 21=-400(LC 12), 13=-240(LC 13)
	Max Grav 2=277(LC 23), 21=1972(LC 2), 13=1649(LC 2)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-133/263, 3-4=-337/755, 4-5=-2717/648, 5-6=-2395/631, 6-7=-1870/577, 7-8=-1502/526, 8-9=-1207/457, 9-10=-1501/488, 11-13=-289/205
BOT CHORD	4-21=-1645/473, 20-21=-508/221, 19-20=-645/2640, 17-19=-483/1968, 16-17=-301/1544, 14-16=-301/1544, 13-14=-222/976
WEBS	3-21=-617/368, 4-20=-798/3151, 5-20=-555/219, 5-19=-729/205, 6-19=-55/502, 6-17=-729/269, 7-17=-165/770, 8-16=0/308, 8-14=-653/195, 9-14=-131/582, 10-14=-107/415, 10-13=-1543/363

- 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) -1-6-0 to 3-0-12, Interior(1) 3-0-12 to 23-6-0, Exterior(2R) 23-6-0 to 28-0-12, Interior(1) 28-0-12 to 36-2-0, Exterior(2R) 36-2-0 to 40-10-1, Interior(1) 40-10-1 to 47-2-0 zone; end vertical right exposed; porch left 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.
 - 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 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=lb) 2=212, 21=400, 13=240.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385896
3363894	T15G	GABLE	1	1		
Job Reference (optional)						

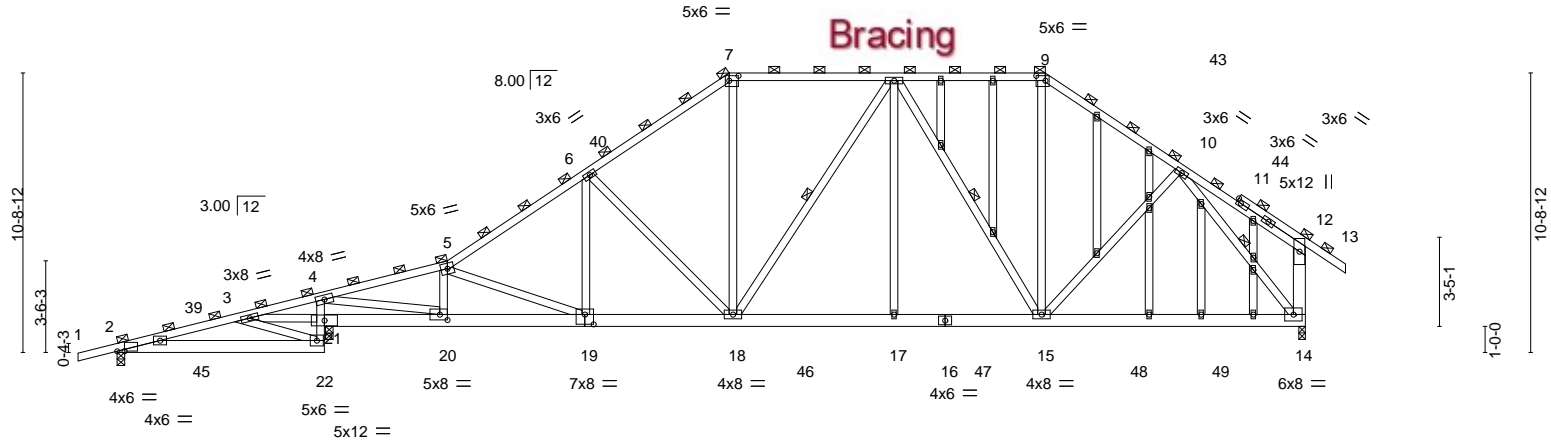
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:42 2022 Page 1

ID: ZUGJcnJtmLZ336HHPF6zRyd1jG-QfDYvU6BllzHuZq_NshKqTp6KR2uZPcNzlb9V6y9jSV

1-6-0 4-9-10 7-11-8 12-8-3 18-0-0 23-6-0 29-10-0 35-7-11 40-9-0 45-7-8 47-2-0
1-6-0 4-9-10 3-1-14 4-8-11 5-3-13 5-6-0 6-4-0 5-9-11 5-1-5 4-10-8 1-6-8

Scale = 1:88.5



	7-11-8	8-0-0	12-8-3	18-0-0	23-6-0	29-10-0	35-7-11	45-7-8	
	7-11-8	0-0-8	4-8-3	5-3-13	5-6-0	6-4-0	5-9-11	9-11-13	
Plate Offsets (X,Y)--	[2:0-3-6,0-0-1], [7:0-4-4,0-2-4], [9:0-4-4,0-2-4], [19:0-4-0,0-4-8], [20:0-3-8,0-2-8]								

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 0.46	Vert(LL)	-0.14 19-20	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.25 19-20	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.05 14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 381 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (3-2-9 max.), except end verticals.
BOT CHORD 2x6 SP No.2 *Except* 4-22: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-20: 2x4 SP No.2, 12-14: 2x6 SP No.2	WEBS 1 Row at midpt 8-18, 8-15, 10-14
OTHERS 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 21=0-3-8, 14=0-3-0 Max Horz 2=291(LC 11) Max Uplift 2=-212(LC 8), 21=-401(LC 12), 14=-245(LC 13) Max Grav 2=277(LC 23), 21=1969(LC 2), 14=1642(LC 2)
------------	---

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-130/262, 3-4=-339/754, 4-5=-2711/647, 5-6=-2392/631, 6-7=-1865/577, 7-8=-1499/525, 8-9=-1245/466, 9-10=-1555/492, 12-14=-304/198
BOT CHORD	4-21=-1642/473, 20-21=-507/219, 19-20=-647/2634, 18-19=-485/1963, 17-18=-303/1533, 15-17=-303/1533, 14-15=-245/1025
WEBS	3-21=-616/366, 4-20=-800/3144, 5-20=-556/219, 5-19=-726/204, 6-19=-56/501, 6-18=-726/268, 7-18=-163/764, 8-17=0/274, 8-15=-603/193, 9-15=-130/608, 10-15=-102/371, 10-14=-1526/382

NOTES-	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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) -1-6-0 to 3-0-12, Interior(1) 3-0-12 to 23-6-0, Exterior(2R) 23-6-0 to 28-0-12, Interior(1) 28-0-12 to 35-7-11, Exterior(2R) 35-7-11 to 40-2-7, Interior(1) 40-2-7 to 47-2-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.	
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
5) Provide adequate drainage to prevent water ponding.	
6) All plates are 2x4 MT20 unless otherwise indicated.	
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 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.	
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=212, 21=401, 14=245.	
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

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

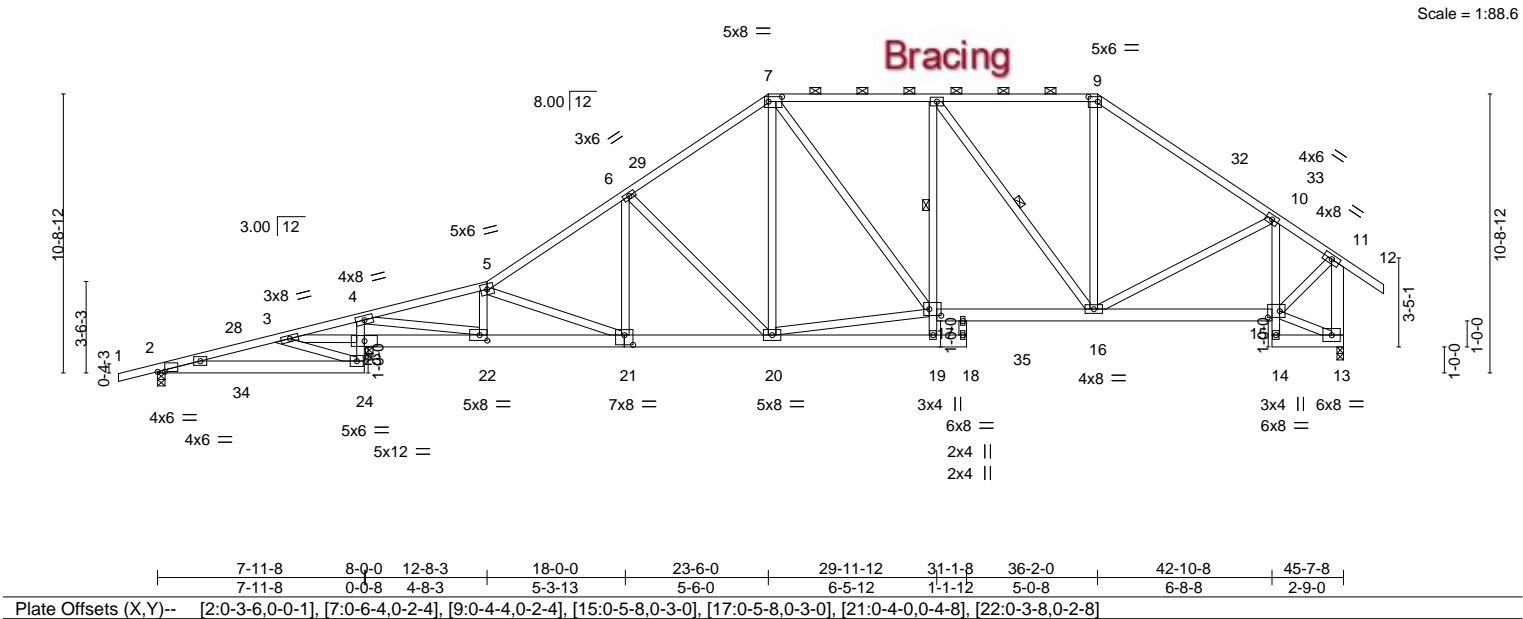
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385897
3363894	T16	Piggyback Base	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:44 2022 Page 1						
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-M1LIKA7RHMD_7s_MVHjovuuRYFkC1J4gR34GZ_y9jST										
1-6-0	4-9-10	7-11-8	12-8-3	18-0-0	23-6-0	29-11-12	36-2-0	42-10-8	45-7-8	47-2-0
1-6-0	4-9-10	3-1-14	4-8-11	5-3-13	5-6-0	6-5-12	6-2-4	6-8-8	2-9-0	1-6-8



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 0.54	Vert(LL)	-0.14 21-22	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.25 21-22	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.07 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 347 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-5 max.): 7-9.
BOT CHORD 2x6 SP No.2 *Except* 4-24,8-19,10-14: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 8-17 10-0-0 oc bracing: 17-19
WEBS 2x4 SP No.3 *Except* 4-22: 2x4 SP No.2, 11-13: 2x6 SP No.2	WEBS 1 Row at midpt 8-16

REACTIONS.	(size) 2=0-3-8, 23=0-3-8, 13=0-3-0 Max Horz 2=294(LC 11) Max Uplift 2=213(LC 8), 23=397(LC 12), 13=235(LC 13) Max Grav 2=274(LC 23), 23=1967(LC 2), 13=1610(LC 2)
-------------------	--

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-132/273, 3-4=-339/773, 4-5=-2690/641, 5-6=-2380/625, 6-7=-1856/572, 7-8=-1726/559, 8-9=-1327/470, 9-10=-1676/482, 10-11=-1131/317, 11-13=-1556/462
BOT CHORD	4-23=-1642/470, 22-23=-525/221, 21-22=-638/2614, 20-21=-477/1952, 8-17=-23/334, 16-17=-332/1731, 15-16=-235/965, 10-15=-703/242
WEBS	3-23=-631/368, 4-22=-793/3144, 5-22=-565/218, 5-21=-714/203, 6-21=-56/506, 6-20=-729/269, 7-20=-120/490, 17-20=-265/1370, 7-17=-147/477, 8-16=-726/202, 9-16=-90/639, 10-16=-135/447, 11-15=-304/1266

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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) -1-6-0 to 3-0-12, Interior(1) 3-0-12 to 23-6-0, Exterior(2R) 23-6-0 to 28-0-12, Interior(1) 28-0-12 to 36-2-0, Exterior(2R) 36-2-0 to 40-8-12, Interior(1) 40-8-12 to 47-2-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 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 2-0-0 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) except (jt=lb) 2=213, 23=397, 13=235.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385898
3363894	T19	Half Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:46 2022 Page 1

ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-IQT3ls9hpzUiNA8lciG_J_kr2QLVDEzuNZNety9jSR



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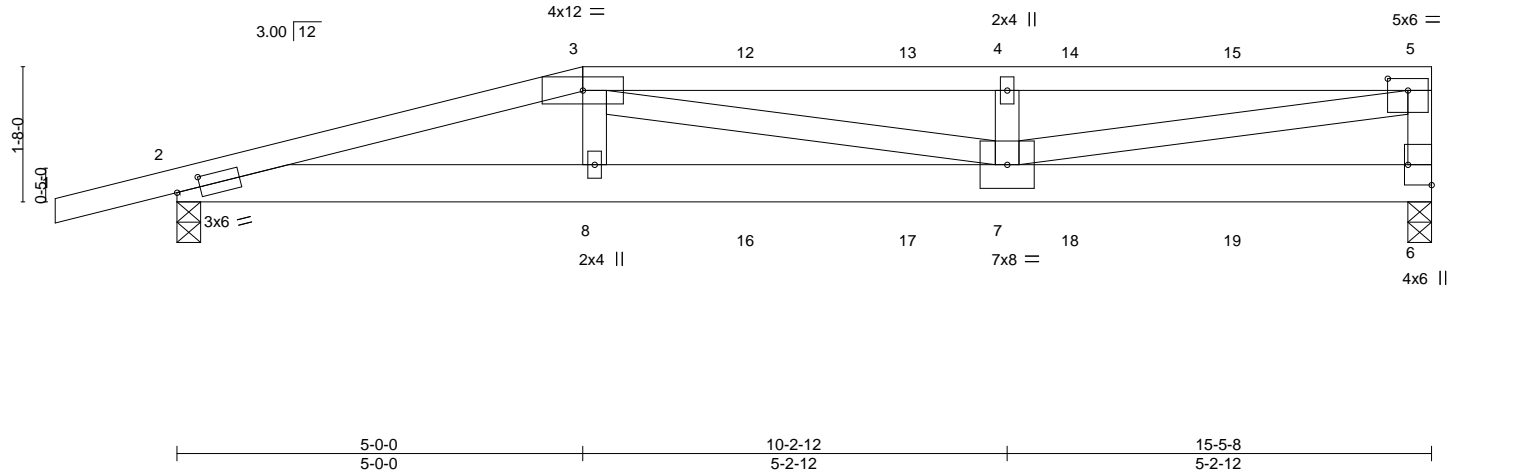


Plate Offsets (X,Y)-- [2:0-3-8,0-1-8], [5:0-3-0,0-1-12], [6:Edge,0-3-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.17 7-8 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.24 7-8 >761 180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.02 6 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 80 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-15 oc bracing.

REACTIONS.

(size) 6=0-3-8, 2=0-3-8
Max Horz 2=60(LC 4)
Max Uplift 6=-512(LC 4), 2=-466(LC 4)
Max Grav 6=991(LC 1), 2=887(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2487/1262, 3-4=-2423/1250, 4-5=-2423/1250, 5-6=-817/422
BOT CHORD 2-8=-1237/2392, 7-8=-1253/2422
WEBS 3-8=-138/366, 4-7=-460/236, 5-7=-1201/2327

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; porch left and right exposed; 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.
- 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 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) 6=512, 2=466.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 64 lb up at 5-0-0, 58 lb down and 64 lb up at 7-0-12, 58 lb down and 64 lb up at 9-0-12, 58 lb down and 63 lb up at 11-0-12, and 58 lb down and 64 lb up at 13-0-12, and 78 lb down and 62 lb up at 15-3-12 on top chord, and 112 lb down and 111 lb up at 5-0-0, 46 lb down and 45 lb up at 7-0-12, 46 lb down and 45 lb up at 9-0-12, 46 lb down and 45 lb up at 11-0-12, and 46 lb down and 45 lb up at 13-0-12, and 61 lb down and 42 lb up at 15-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

- Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 6-9=-20

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 13,2022

Continued on page 2

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385898
3363894	T19	Half Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:46 2022 Page 2
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-IQT3ls9hpzUiNA8lcilG_J_kr2QLVDEzuNZNety9jSR

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-58(B) 5=-78(B) 6=-46(B) 8=-96(B) 12=-58(B) 13=-58(B) 14=-58(B) 15=-58(B) 16=-38(B) 17=-38(B) 18=-38(B) 19=-38(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385899
3363894	T20	Half Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:47 2022 Page 1
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-mc1RyCAJaHcZ_KjxAPHVXXW2YSrpEsT671JwAJy9jSQ



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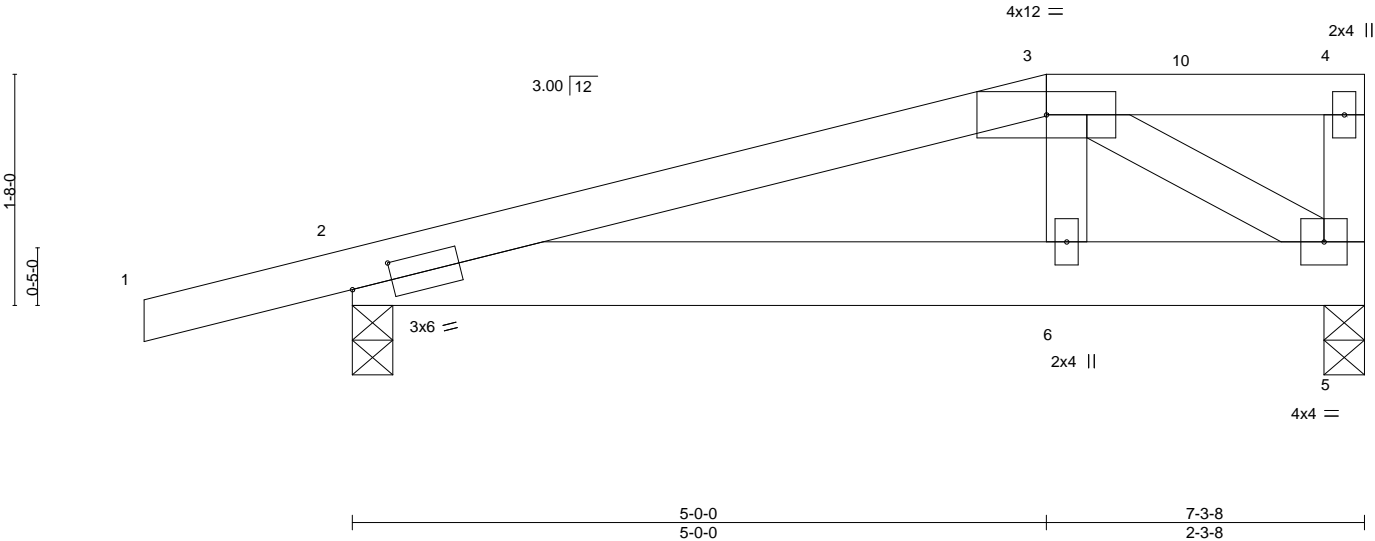


Plate Offsets (X,Y)--	[2:0-3-8,0-1-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17	Vert(LL)	0.02 6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.02 6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	0.00 5	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 2x6 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 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 5=0-3-8
Max Horz 2=60(LC 4)
Max Uplift 2=-213(LC 4), 5=-189(LC 4)
Max Grav 2=398(LC 1), 5=366(LC 1)

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

TOP CHORD 2-3=-544/257
BOT CHORD 2-6=-262/504, 5-6=-274/528
WEBS 3-6=-109/282, 3-5=-594/308

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; porch left and right exposed; 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.
- 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 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) 2=213, 5=189.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 64 lb up at 5-0-0 on top chord, and 112 lb down and 111 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-96(F) 3=-58(F)

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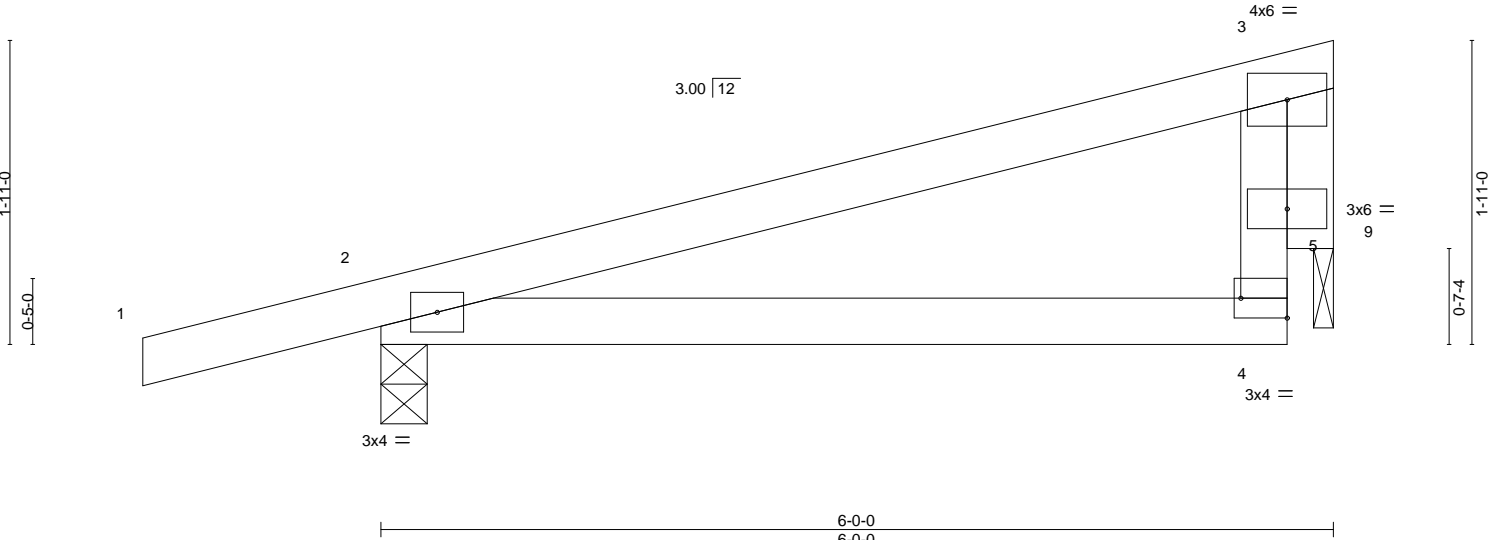
Job	Truss	Truss Type	Qty	Ply	IC CONST. - WALDEN RES.	T29385900
3363894	T21	Monopitch	17	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Dec 12 11:39:48 2022 Page 1
ID: _ZUGJcnJtmLZ336HHPF6zRyd1jG-EpbpAYBxLbkQcUI7k7ok3k38KsAAzGqGMh2Uily9jSP



Scale = 1:14.5



Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-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 **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 I bracing if indicated.

BEARING



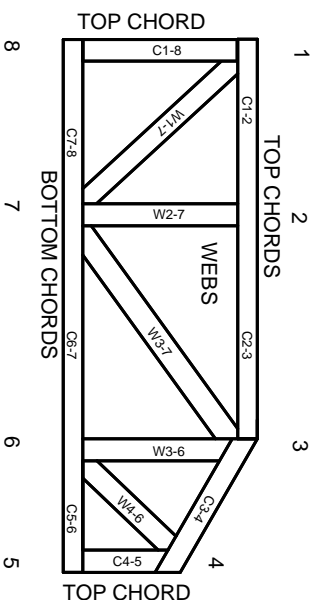
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: 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 ft-in-sixteenths (Drawings not to scale)



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/TP1 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 I 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.