



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

RE: 3184232 - REED MCDANIEL - JANAK ADDITION

MiTek USA, Inc.

16023 Swingley Ridge Rd  
Chesterfield, MO 63017

**Site Information:**

Customer Info: REED MCDANIEL CONST. Project Name: Janak Model: Addition  
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: \_\_\_\_\_ License #: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5  
Wind Code: ASCE 7-16 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: 55.0 psf

This package includes 22 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	T28195652	CJ01	7/7/22	15	T28195666	T03	7/7/22
2	T28195653	CJ03	7/7/22	16	T28195667	T04	7/7/22
3	T28195654	CJ05	7/7/22	17	T28195668	T05	7/7/22
4	T28195655	EJ01	7/7/22	18	T28195669	T06	7/7/22
5	T28195656	F01	7/7/22	19	T28195670	T07	7/7/22
6	T28195657	F02	7/7/22	20	T28195671	T08	7/7/22
7	T28195658	F03	7/7/22	21	T28195672	T09	7/7/22
8	T28195659	F04	7/7/22	22	T28195673	TFG01	7/7/22
9	T28195660	F05	7/7/22				
10	T28195661	HJ10	7/7/22				
11	T28195662	KW3	7/7/22				
12	T28195663	KW4	7/7/22				
13	T28195664	KW5	7/7/22				
14	T28195665	T02	7/7/22				



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

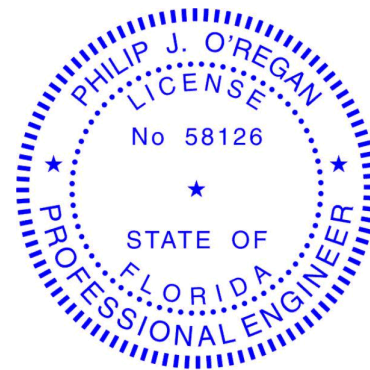
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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:

July 7, 2022

O'Regan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195652
3184232	CJ01	Jack-Open	8	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:06 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-zRqSPBMin2LdP87HCcZW2q5aKPH33WeyjConc9z\_mWV



Scale = 1:9.5

Plate Offsets (X,Y)--		[2:0-1-8,0-1-9]	
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0
TCLL 20.0		Plate Grip DOL	1.25
TCDL 10.0		Lumber DOL	1.25
BCLL 0.0 *		Rep Stress Incr	YES
BCDL 10.0		Code	FBC2020/TPI2014
		<b>CSI.</b>	
		TC 0.27	
		BC 0.06	
		WB 0.00	
		Matrix-MP	
		<b>DEFL.</b>	
		in (loc)	L/defl
		Vert(LL) 0.00 7	>999 240
		Vert(CT) 0.00 7	>999 180
		Horz(CT) 0.00 2	n/a n/a
		<b>PLATES</b>	<b>GRIP</b>
		MT20	244/190
		Weight: 7 lb	FT = 20%

#### LUMBER-

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

#### REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=50(LC 12)  
Max Uplift 3=-30(LC 1), 2=-112(LC 12), 4=-52(LC 1)  
Max Grav 3=14(LC 16), 2=281(LC 1), 4=30(LC 12)

**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=25ft; 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=112.

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:

July 7,2022

**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	REED MCDANIEL - JANAK ADDITION	T28195653
3184232	CJ03	Jack-Open	8	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:06 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-zRqSPBmIn2LdP87HCcZW2q5aKPGV3WeyjConc9z\_mWV

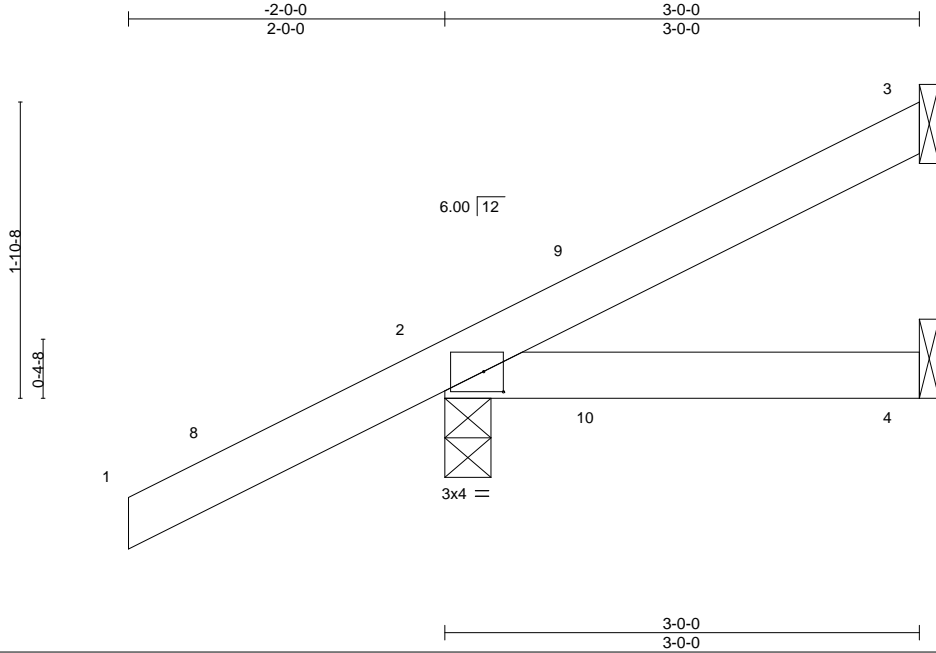


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]										
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.01 4-7 >999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.01 4-7 >999	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

#### REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=85(LC 12)  
Max Uplift 3=-34(LC 12), 2=-84(LC 12), 4=-15(LC 9)  
Max Grav 3=57(LC 1), 2=278(LC 1), 4=47(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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 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, 2, 4.

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:

July 7,2022

**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



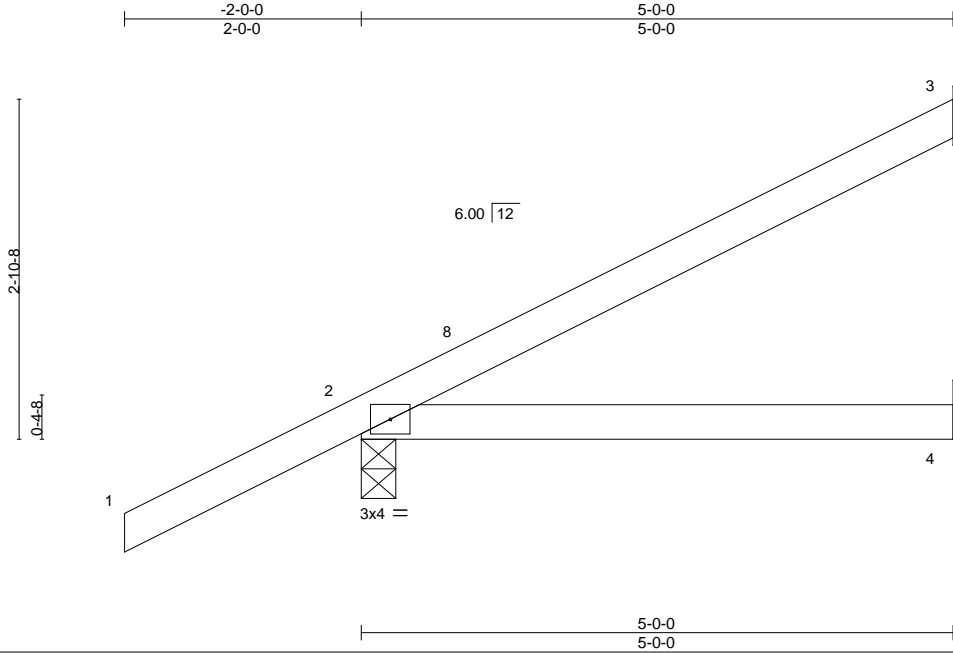
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195654
3184232	CJ05	Jack-Open	8	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:07 2022 Page 1

ID:3wgVq5TDSVahTT1qXhIGLxzQBFD-ReOqcXNOYLTU1iUIJ4lb1dkvpaUoyu5ysXK8cz\_mWU



Scale = 1:19.5

LOADING (psf)	SPACING-	2'-0'-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.03	4-7	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.05	4-7	>999	180	244/190
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: 19 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=122(LC 12)  
Max Uplift 3=-70(LC 12), 2=-89(LC 12)  
Max Grav 3=119(LC 1), 2=342(LC 1), 4=88(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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2'-0'-0 to 1'-0'-0, Interior(1) 1'-0'-0 to 4'-11'-4 zone; porch 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, 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:

July 7, 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	REED MCDANIEL - JANAK ADDITION	T28195655
3184232	EJ01	Jack-Partial	18	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:08 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-wqyCptN0JfbLfSHgJ1b\_7FAoVDn7XP8EAWHth2z\_mWT

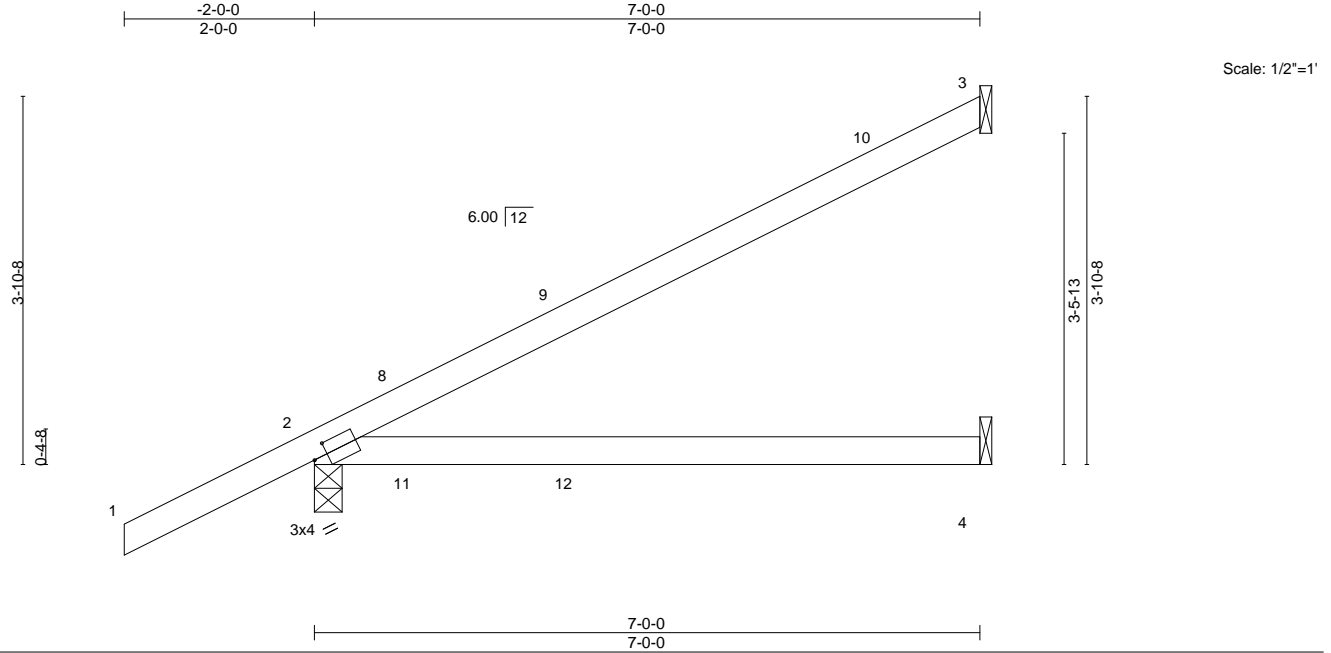


Plate Offsets (X,Y)--		[2:0-1-13,0-1-8]							
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0		Plate Grip DOL 1.25		TC 0.74		Vert(LL) 0.31 4-7 >265 240		MT20	244/190
TCDL 10.0		Lumber DOL 1.25		BC 0.72		Vert(CT) 0.27 4-7 >308 180			
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-MS				Weight: 26 lb	FT = 20%

#### LUMBER-

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

#### REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=153(LC 12)  
Max Uplift 3=-91(LC 12), 2=-101(LC 12), 4=-43(LC 9)  
Max Grav 3=177(LC 1), 2=415(LC 1), 4=127(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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 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=101.

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:

July 7,2022

**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	REED MCDANIEL - JANAK ADDITION	T28195656
3184232	F01	FLOOR	7	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Dec 6 2021 MiTek Industries, Inc.
Wed Jul 6 13:50:09 2022
Page 1
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-O0Wb1DOe4zjCGcsstk6DgSj4acBVGj1OPA0RDUZ\_mWS

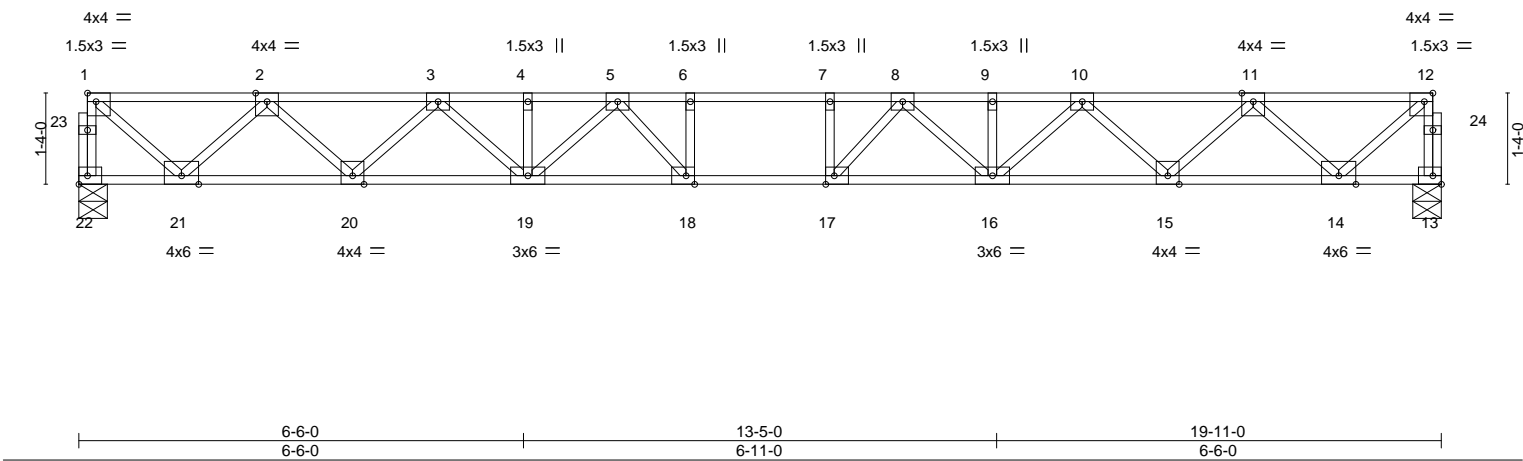
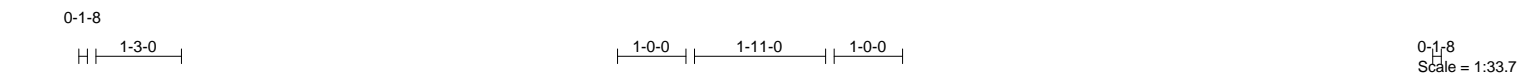


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [12:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]							
<b>LOADING</b> (psf)		<b>SPACING-</b>		<b>CSI.</b>		<b>DEFL.</b>		<b>PLATES</b>	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	in (loc)	I/defl	L/d	GRIP
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(LL)	-0.24 17-18	>964	360
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Vert(CT)	-0.34 17-18	>701	240
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-S		Horz(CT)	0.06 13	n/a	n/a
								Weight: 105 lb FT = 20%F, 11%E	

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP M 31(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP M 31(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

**REACTIONS.**
(size) 22=0-5-0, 13=0-5-0  
Max Grav 22=947(LC 1), 13=947(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-22=-942/0, 12-13=-942/0, 1-2=-973/0, 2-3=-2428/0, 3-4=-3410/0, 4-5=-3410/0, 5-6=-3841/0, 6-7=-3841/0, 7-8=-3841/0, 8-9=-3410/0, 9-10=-3410/0, 10-11=-2428/0, 11-12=-973/0  
BOT CHORD 20-21=0/1834, 19-20=0/2997, 18-19=0/3691, 17-18=0/3841, 16-17=0/3691, 15-16=0/2997, 14-15=0/1834  
WEBS 12-14=0/1256, 1-21=0/1256, 11-14=-1199/0, 2-21=-1199/0, 11-15=0/825, 2-20=0/825, 10-15=-792/0, 3-20=-792/0, 10-16=0/561, 3-19=0/561, 8-16=-420/0, 5-19=-420/0, 8-17=-130/544, 5-18=-130/544, 6-18=-305/32, 7-17=-305/32

**NOTES-**  
1) Unbalanced floor live loads have been considered for this design.  
2) All plates are 3x4 MT20 unless otherwise indicated.  
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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.

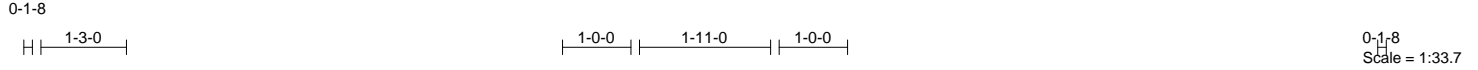
Philip J. O'Regan PE No.58126  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

July 7,2022

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195657
3184232	F02	FLOOR GIRDER	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:10 2022 Page 1  
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-sC4zEZPGGr3umR3RSeSDgFBZ0UM?6JXepm\_lxz\_mWR



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.29 17 >821 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.40 17 >589 240				
BCLL	0.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.07 13 n/a n/a				
BCDL	5.0	Code FBC2020/TPI2014		Matrix-S							
								Weight: 114 lb		FT = 20%F, 11%E	

#### LUMBER-

TOP CHORD 2x4 SP M 31(flat)  
BOT CHORD 2x4 SP M 31(flat)  
WEBS 2x4 SP No.3(flat)

#### 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) 22=0-5-0, 13=0-5-0  
Max Grav 22=1018(LC 1), 13=1262(LC 1)

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

TOP CHORD 1-22=-1013/0, 12-13=-1256/0, 1-2=-1053/0, 2-3=-2658/0, 3-4=-3787/0, 4-5=-3787/0, 5-6=-4423/0, 6-7=-4423/0, 7-8=-4423/0, 8-9=-4201/0, 9-10=-4208/0, 10-11=-3335/0, 11-12=-1386/0  
BOT CHORD 20-21=0/1990, 19-20=0/3298, 18-19=0/4152, 17-18=0/4423, 16-17=0/4394, 15-16=0/4049, 14-15=0/2601  
WEBS 12-14=0/1789, 1-21=0/1361, 11-14=-1649/0, 2-21=-1303/0, 11-15=0/996, 2-20=0/929, 10-15=-969/0, 3-20=0/665, 8-16=-262/0, 5-19=-533/0, 8-17=-313/260, 5-18=0/727, 6-18=-400/0

#### NOTES-

- Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 198 lb down at 14-5-0, and 198 lb down at 15-9-12, and 198 lb down at 17-9-12 on top 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 13-22=-9, 1-12=-88  
Concentrated Loads (lb)  
Vert: 10=-127(B) 24=-127(B) 25=-127(B)

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:

July 7, 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**

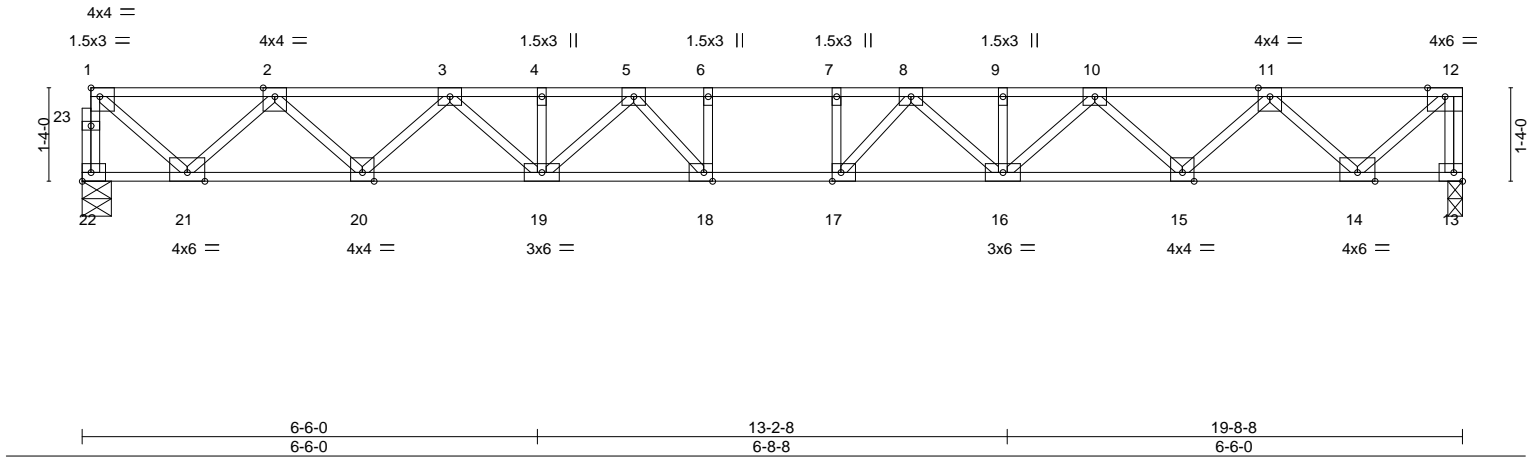
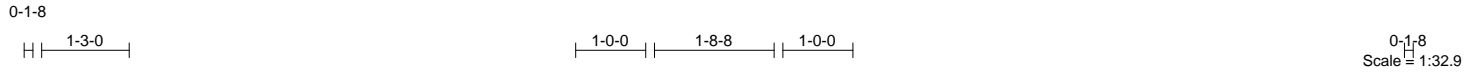


16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195658
3184232	F03	Floor	6	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:11 2022 Page 1  
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-KPeLSuQucazwWw0F\_99hlttoQEQuJkdNhsTVXHNz\_mWQ



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.24	17-18	>993	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.32	17-18	>722	240			
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.06	13	n/a	n/a			
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP M 31(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP M 31(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

**REACTIONS.** (size) 22=0-5-0, 13=0-2-8  
Max Grav 22=937(LC 1), 13=942(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-22=932/0, 12-13=936/0, 1-2=961/0, 2-3=2395/0, 3-4=3356/0, 4-5=3356/0, 5-6=3763/0, 6-7=3763/0, 7-8=3763/0, 8-9=3356/0, 9-10=3356/0, 10-11=2396/0, 11-12=960/0  
BOT CHORD 20-21=0/1813, 19-20=0/2954, 18-19=0/3628, 17-18=0/3763, 16-17=0/3628, 15-16=0/2954, 14-15=0/1814  
WEBS 12-14=0/1278, 1-21=0/1241, 11-14=1189/0, 2-21=1184/0, 11-15=0/809, 2-20=0/810, 10-15=776/0, 3-20=777/0, 10-16=0/547, 3-19=0/546, 8-16=406/0, 5-19=406/0, 8-17=137/509, 5-18=137/509, 6-18=284/39, 7-17=284/39

**NOTES-**  
1) Unbalanced floor live loads have been considered for this design.  
2) All plates are 3x4 MT20 unless otherwise indicated.  
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.  
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.  
Strongbacks to be attached to walls at their outer ends or restrained by other means.

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:

July 7,2022

**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

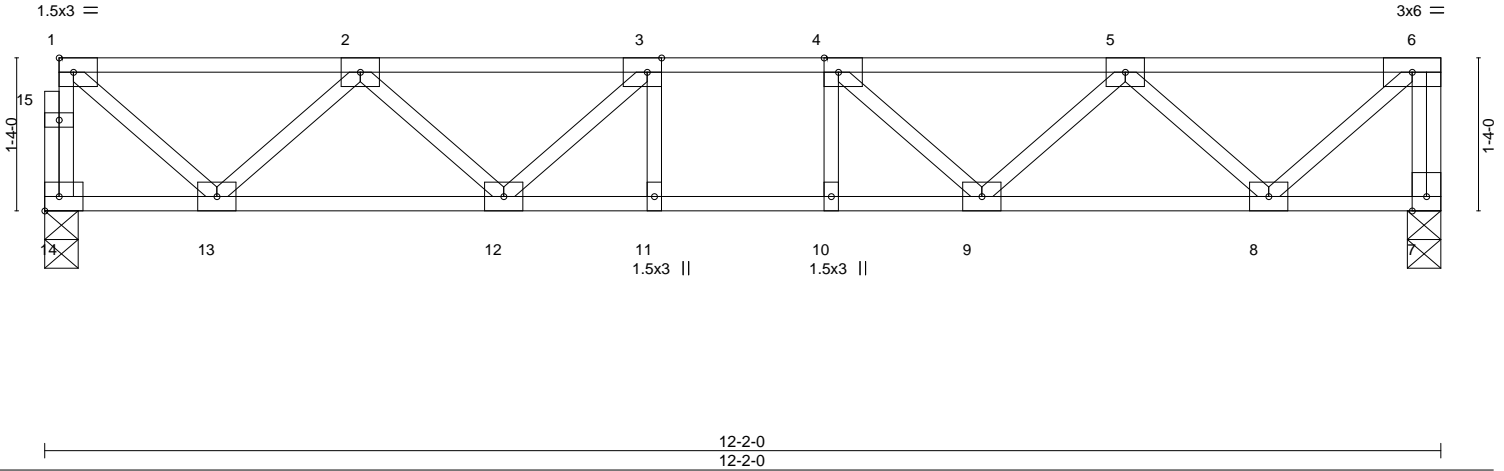
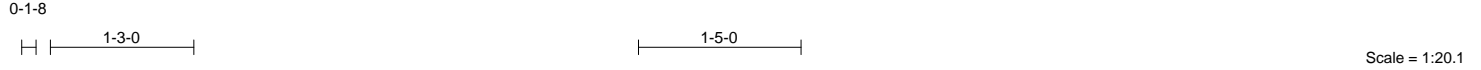


16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195659
3184232	F04	FLOOR	5	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:11 2022 Page 1  
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-KPeLSuQucazwWw0F\_99hltOPYQsWkhShsTVXHNZ\_mWQ



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.06 11-12 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.07 11-12 >999 240				
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02 7 n/a n/a				
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-S							
								Weight: 65 lb FT = 20%F, 11%E			

#### LUMBER-

TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

**REACTIONS.** (size) 14=0-3-8, 7=0-3-8  
Max Grav 14=571(LC 1), 7=577(LC 1)

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

TOP CHORD 1-14=567/0, 6-7=572/0, 1-2=549/0, 2-3=1226/0, 3-4=1417/0, 4-5=1227/0, 5-6=547/0  
BOT CHORD 12-13=0/1024, 11-12=0/1417, 10-11=0/1417, 9-10=0/1417, 8-9=0/1026  
WEBS 6-8=0/729, 1-13=0/706, 5-8=665/0, 2-13=661/0, 5-9=0/297, 2-12=0/298, 4-9=342/0, 3-12=342/0

#### NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

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:

July 7, 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	REED MCDANIEL - JANAK ADDITION	T28195660
3184232	F05	FLOOR	3	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:12 2022 Page 1  
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-obCjfeRWNu5m83aRYsgwl5Le4qJtTCRq57F5qpz\_mWP  
3x6 =

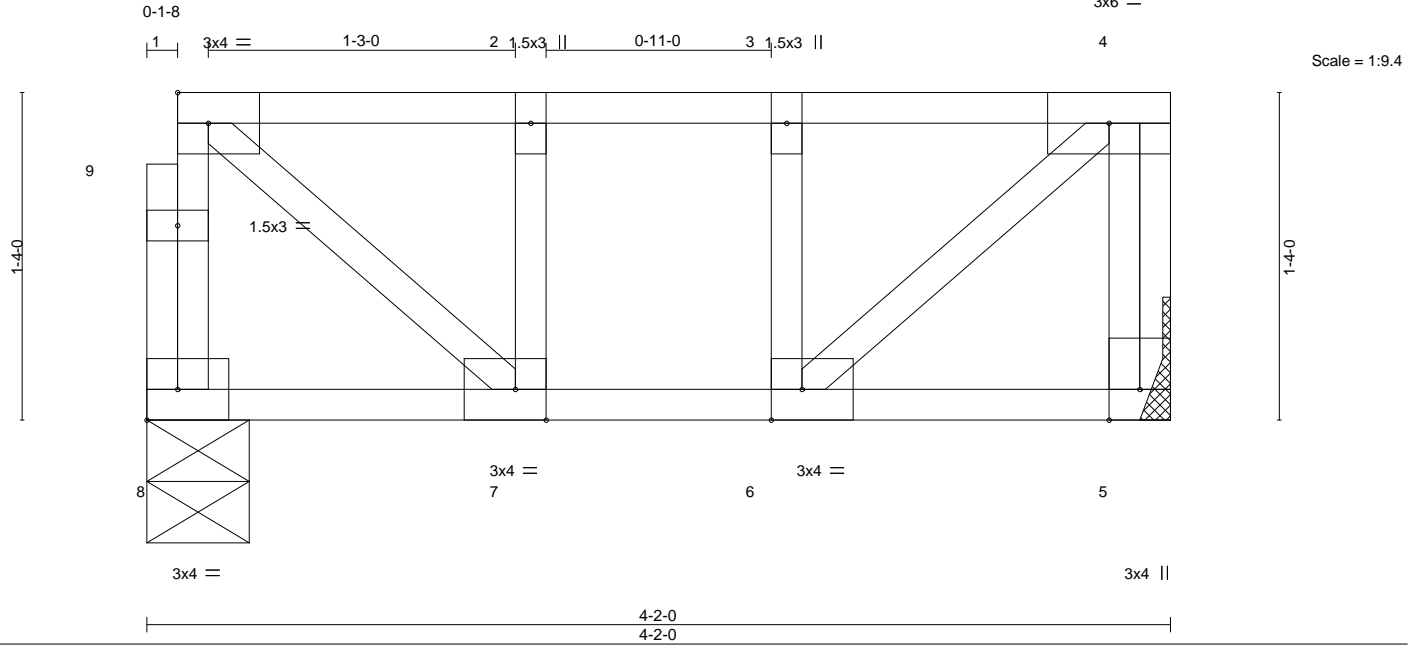


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.13	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.09	Vert(CT)	-0.01	6	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-S						Weight: 27 lb	FT = 20%F, 11%E

#### LUMBER-

TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

#### BRACING-

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

#### REACTIONS.

(size) 8=0-5-0, 5=Mechanical  
Max Grav 8=209(LC 1), 5=215(LC 1)

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

#### NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

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:

July 7, 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**



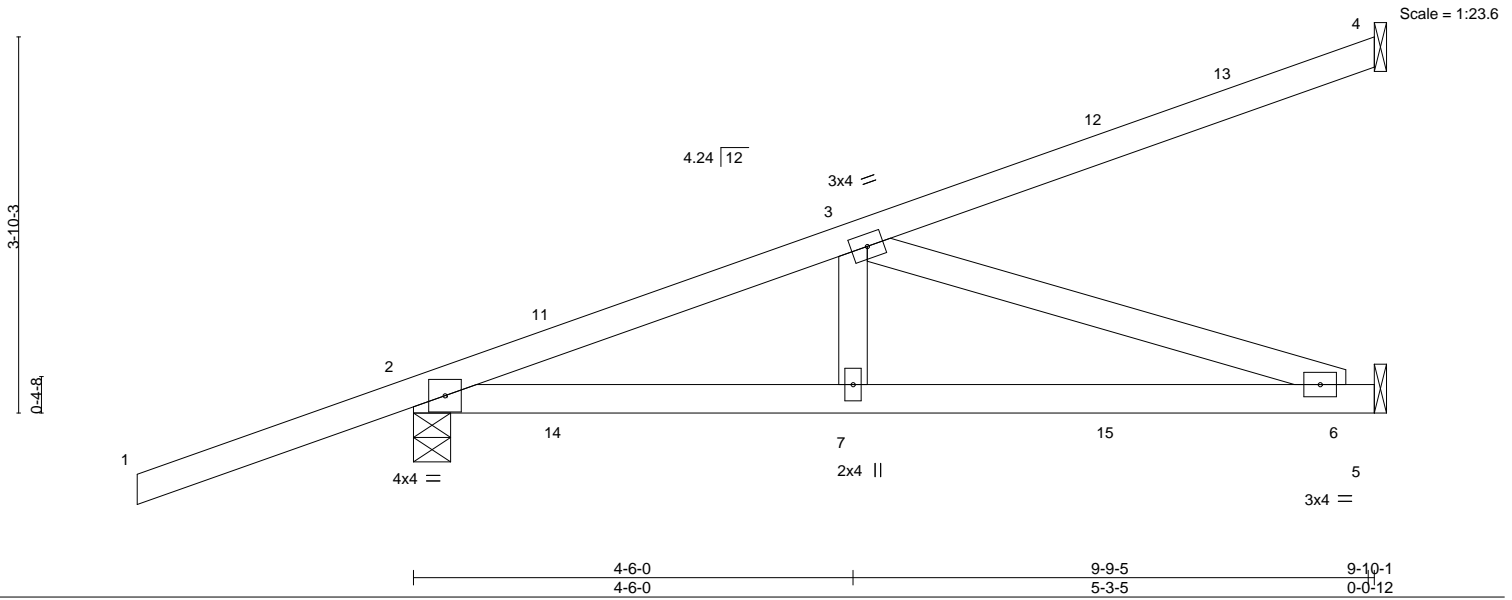
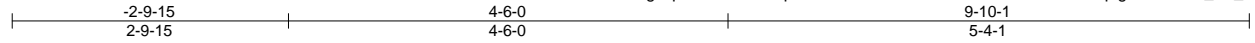
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195661
3184232	HJ10	Diagonal Hip Girder	4	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:13 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-Gnm5taR88BDdID9d6aB9qltgeEWXCbk\_Kn\_eMFz\_mWO



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.64	Vert(LL) 0.07 6-7 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.36	Vert(CT) -0.13 6-7 >921 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.01 5 n/a n/a	Weight: 44 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=0-4-9, 5=Mechanical  
Max Horz 2=171(LC 22)  
Max Uplift 4=87(LC 4), 2=-254(LC 4), 5=-126(LC 5)  
Max Grav 4=167(LC 1), 2=484(LC 1), 5=277(LC 3)

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

TOP CHORD 2-3=-653/282  
BOT CHORD 2-7=-327/599, 6-7=-327/599  
WEBS 3-6=-630/344

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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) 4 except (jt=lb) 2=254, 5=126.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 115 lb up at 1-6-1, 59 lb down and 115 lb up at 1-6-1, 26 lb down and 35 lb up at 4-4-0, 26 lb down and 35 lb up at 4-4-0, and 54 lb down and 80 lb up at 7-1-15, and 54 lb down and 80 lb up at 7-1-15 on top chord, and 48 lb down and 80 lb up at 1-6-1, 48 lb down and 80 lb up at 1-6-1, 43 lb down and 22 lb up at 4-4-0, 43 lb down and 22 lb up at 4-4-0, and 68 lb down at 7-1-15, and 68 lb down at 7-1-15 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=-60, 5-8=-20  
Concentrated Loads (lb)  
Vert: 7=5(F=2, B=2) 11=73(F=37, B=37) 12=-69(F=-34, B=-34) 14=81(F=41, B=41) 15=-51(F=-26, B=-26)

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:

July 7, 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



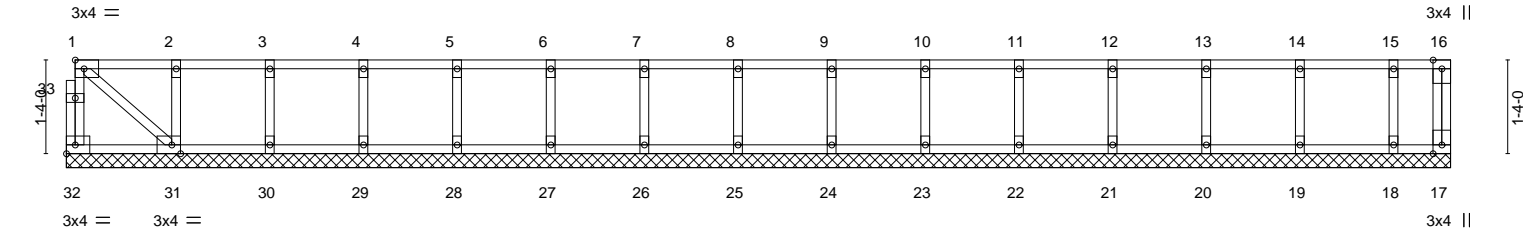
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION
3184232	KW3	GABLE	1	1	T28195662

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Dec 6 2021 MiTek Industries, Inc.
Wed Jul 6 13:50:15 2022
Page 1
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-CAtsHGTPgpTL?XJ0D?DdwjzAn1LzgaNGn5TIR8z\_mWM

0-1-8

Scale = 1:32.8



1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-10-12	12-2-12	13-6-12	14-10-12	16-2-12	17-6-12	18-10-12	19-8-8
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-9-12
Plate Offsets (X,Y)-- [31:0-1-8,Edge]														
<b>LOADING</b> (psf)			<b>SPACING-</b>			<b>CSI.</b>			<b>DEFL.</b>			<b>PLATES</b>		
TCLL	40.0		Plate Grip DOL	1.00		TC	0.03		in	(loc)	I/defl	L/d	MT20	GRIP
TCDL	10.0		Lumber DOL	1.00		BC	0.00		Vert(LL)	n/a	-	n/a	999	244/190
BCLL	0.0		Rep Stress Incr	YES		WB	0.03		Vert(CT)	n/a	-	n/a	999	
BCDL	5.0		Code	FBC2020/TPI2014		Matrix-S			Horz(CT)	0.00	17	n/a	n/a	
													Weight: 90 lb	FT = 20%F, 11%E

<b>LUMBER-</b>					<b>BRACING-</b>				
TOP CHORD	2x4 SP M 31(flat)				TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.			
BOT CHORD	2x4 SP M 31(flat)				BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			
WEBS	2x4 SP No.3(flat)								
OTHERS	2x4 SP No.3(flat)								

**REACTIONS.** All bearings 19-8-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) CAUTION, Do not erect truss backwards.

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:

July 7,2022

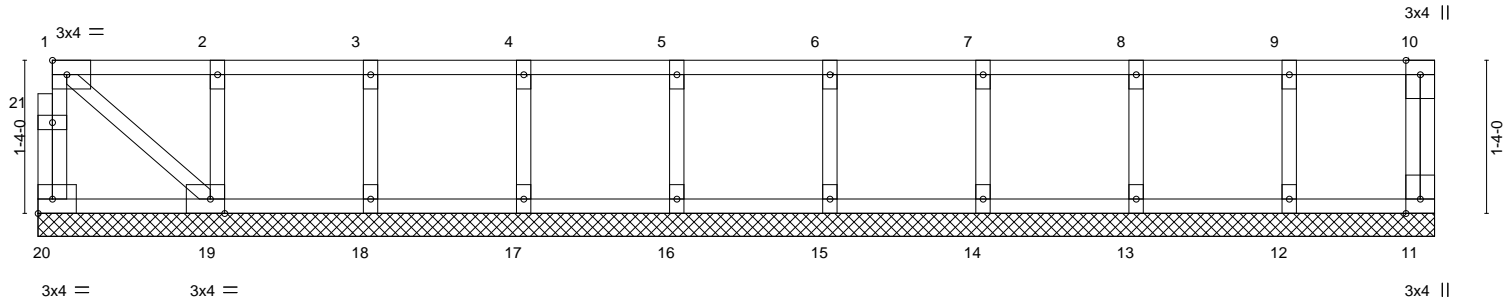
Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195663
3184232	KW4	GABLE	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:16 2022 Page 1  
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-hMREVCu1R6bCchuCnlsSxVKiRh6P1dQ0IDizaz\_mWL

0118

Scale = 1:20.1



1-6-12		2-10-12		4-2-12		5-6-12		6-10-12		8-2-12		9-6-12		10-10-12		12-1-15	
1-6-12		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-3-3	
Plate Offsets (X,Y)-- [19:0-1-8,Edge]																	
<b>LOADING</b> (psf)		<b>SPACING-</b> 1-9-2				<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d				<b>PLATES</b>		<b>GRIP</b>			
TCLL	40.0	Plate Grip DOL 1.00				TC	0.09	Vert(LL) n/a - n/a 999				MT20		244/190			
TCDL	10.0	Lumber DOL 1.00				BC	0.01	Vert(CT) n/a - n/a 999									
BCLL	0.0	Rep Stress Incr YES				WB	0.03	Horz(CT) 0.00 11 n/a n/a									
BCDL	5.0	Code FBC2020/TPI2014				Matrix-S						Weight: 58 lb		FT = 20%F, 11%E			

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195664
3184232	KW5	GABLE	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:16 2022 Page 1  
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-hMREVCU1R6bCchuCnlsSxVKjRh6P1eQ0IDizaz\_mWL

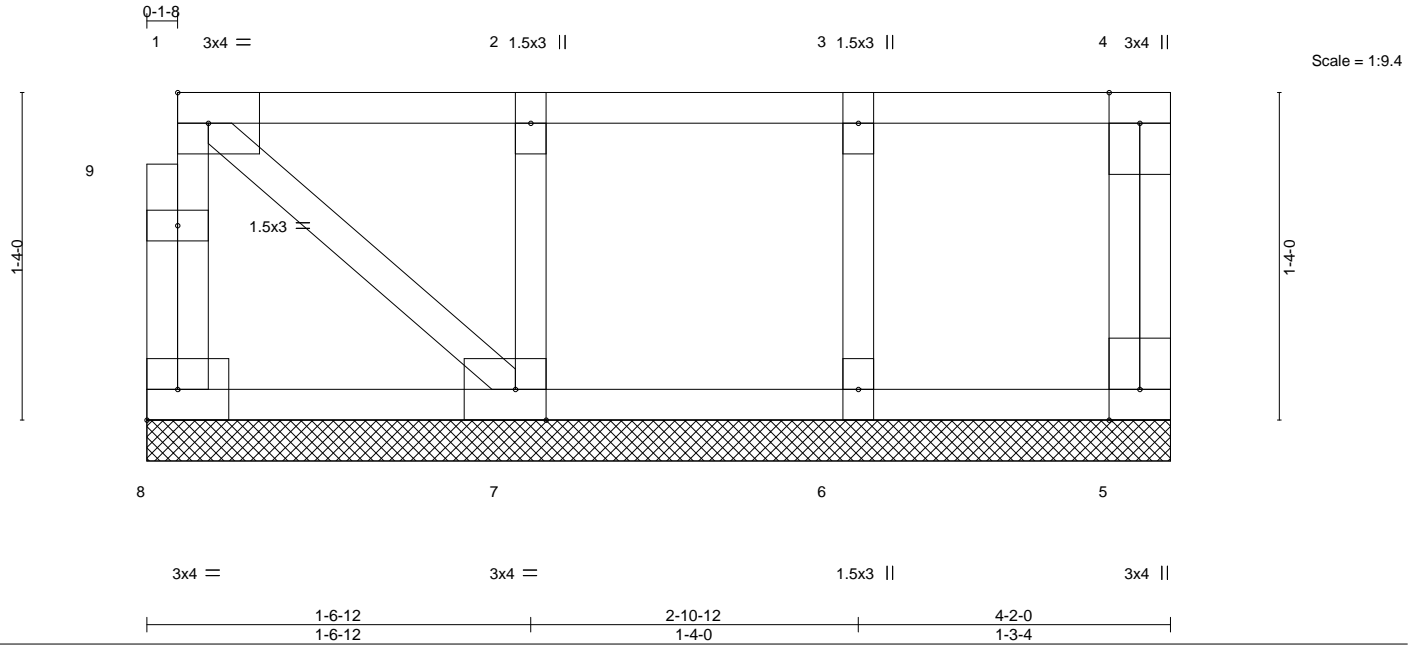


Plate Offsets (X,Y)-- [7:0-1-8,Edge]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	1-9-2	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	I/defl	L/d	<b>PLATES</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	n/a	-	n/a	999	<b>GRIP</b>
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999	MT20
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a	244/190
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-P						Weight: 24 lb
									FT = 20%F, 11%E

#### LUMBER-

TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)  
OTHERS 2x4 SP No.3(flat)

#### BRACING-

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

#### REACTIONS.

All bearings 4-2-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

#### FORCES.

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

#### NOTES-

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

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:

July 7,2022

**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



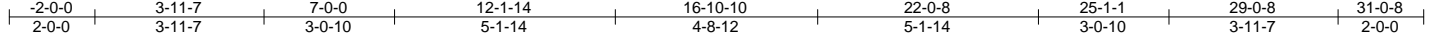
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195665
3184232	T02	Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:18 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-dlZ\_wlVHzkrws\_2bv7nKXMBaTFIstoXjT3iP1Tz\_mWJ



Scale = 1:53.8

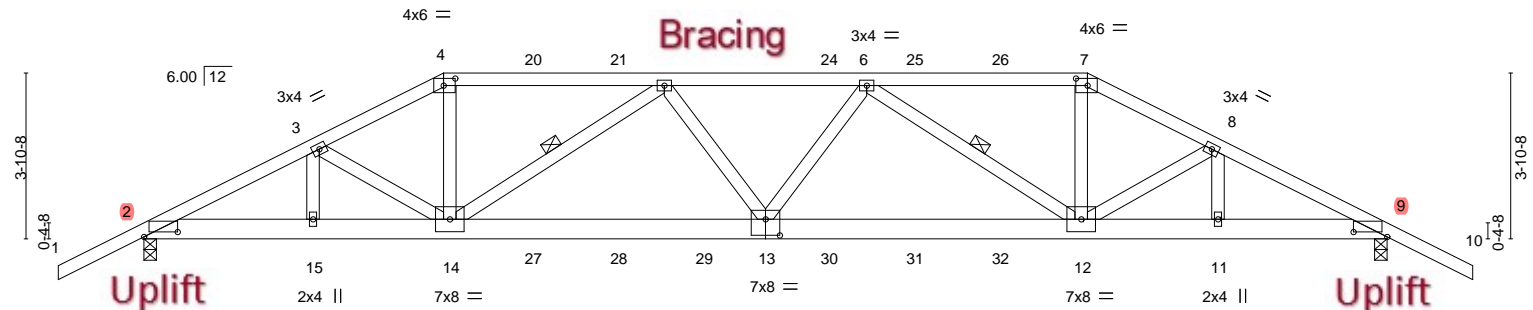


Plate Offsets (X,Y)--	[2:0-9-7,0-1-6], [4:0-3-4,0-2-0], [7:0-3-4,0-2-0], [9:0-9-7,0-1-6], [13:0-4-0,0-4-8]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.38	Vert(LL) 0.27 13-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.58	Vert(CT) -0.43 12-13 >818 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.10 9 n/a n/a		
	Code FBC2020/TPI2014			Weight: 173 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*  
4-7: 2x4 SP M 31  
BOT CHORD 2x6 SP M 26  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-6-8 oc bracing.  
WEBS 1 Row at midpt 5-14, 6-12

#### REACTIONS.

(size) 2=0-3-8, 9=0-3-8  
Max Horz 2=-72(LC 9)  
Max Uplift 2=-998(LC 8), 9=-1017(LC 9)  
Max Grav 2=2346(LC 1), 9=2388(LC 1)

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

TOP CHORD 2-3=-4487/1959, 3-4=-4408/2006, 4-5=-3981/1848, 5-6=-5383/2452, 6-7=-4063/1883,  
7-8=-4502/2048, 8-9=-4579/2000  
BOT CHORD 2-15=-1742/3971, 14-15=-1742/3971, 13-14=-2320/5230, 12-13=-2326/5257,  
11-12=-1707/4054, 9-11=-1707/4054  
WEBS 3-14=-264/202, 4-14=-681/1525, 5-14=-1574/759, 5-13=-154/427, 6-13=-120/403,  
6-12=-1494/708, 7-12=-653/1486, 8-12=-265/204

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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 998 lb uplift at joint 2 and 1017 lb uplift at joint 9.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb down and 101 lb up at 7-0-0, 117 lb down and 101 lb up at 9-0-12, 117 lb down and 101 lb up at 11-0-12, 117 lb down and 101 lb up at 13-0-12, 117 lb down and 93 lb up at 14-6-4, 117 lb down and 101 lb up at 15-11-12, 117 lb down and 101 lb up at 17-11-12, and 117 lb down and 101 lb up at 19-11-12, and 246 lb down and 199 lb up at 22-0-8 on top chord, and 307 lb down and 224 lb up at 7-0-0, 87 lb down and 63 lb up at 9-0-12, 87 lb down and 63 lb up at 11-0-12, 87 lb down and 63 lb up at 13-0-12, 87 lb down and 63 lb up at 14-6-4, 87 lb down and 63 lb up at 15-11-12, 87 lb down and 63 lb up at 17-11-12, and 87 lb down and 63 lb up at 19-11-12, and 307 lb down and 224 lb up at 21-11-12 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

Continued on page 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:

July 7, 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	REED MCDANIEL - JANAK ADDITION	T28195665
3184232	T02	Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc.
Wed Jul 6 13:50:18 2022
Page 2
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-dlZ\_wlVHzkrws\_2bv7nKXMbaTFIstoXjT3iP1Tz\_mWJ

**LOAD CASE(S)**
Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-4=-60, 4-7=-60, 7-10=-60, 2-9=-20
- Concentrated Loads (lb)
- Vert: 4=-117(B) 7=-199(B) 13=-63(B) 14=-297(B) 12=-297(B) 20=-117(B) 21=-117(B) 22=-117(B) 23=-117(B) 24=-117(B) 25=-117(B) 26=-117(B) 27=-63(B)
- 28=-63(B) 29=-63(B) 30=-63(B) 31=-63(B) 32=-63(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



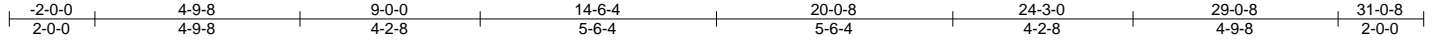
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195666
3184232	T03	Hip	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:19 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-5x7N7eWvk1znT8dnSrlZ4Z7nPeXmclYsijRzavz\_mWI



Scale = 1:53.8

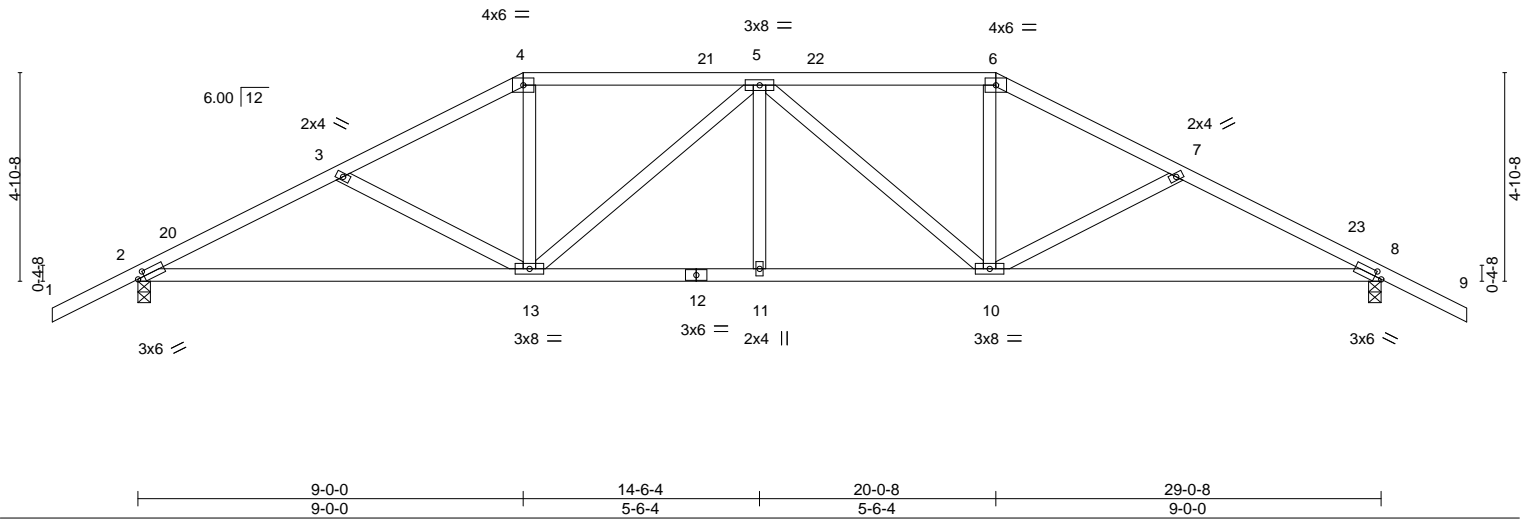


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [8:0-1-15,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.38	Vert(LL) -0.15	13-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.78	Vert(CT) -0.33	13-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.40	Horz(CT) 0.08	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 150 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
8-11-13 oc bracing: 2-13.

#### REACTIONS.

(size) 2=0-3-8, 8=0-3-8  
Max Horz 2=-87(LC 13)  
Max Uplift 2=-308(LC 12), 8=-308(LC 13)  
Max Grav 2=1282(LC 1), 8=1282(LC 1)

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

TOP CHORD 2-3=-2117/480, 3-4=-1828/397, 4-5=-1594/388, 5-6=-1594/388, 6-7=-1828/397,  
7-8=-2117/480  
BOT CHORD 2-13=-428/1849, 11-13=-314/1857, 10-11=-314/1857, 8-10=-344/1849  
WEBS 3-13=-309/171, 4-13=-81/532, 5-13=-432/157, 5-10=-432/157, 6-10=-81/532,  
7-10=-309/171

#### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 20-0-8, Exterior(2R) 20-0-8 to 24-4-15, Interior(1) 24-4-15 to 31-0-8 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 2 and 308 lb uplift at joint 8.

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:

July 7,2022

#### 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



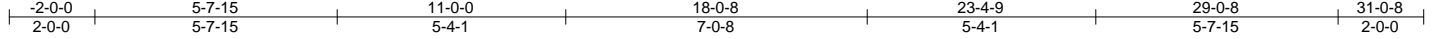
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195667
3184232	T04	Hip	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:21 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-Z8hLzXXUL5e5IC\_0Ypodngqn2xWlmm0xNBW6Kz\_mWH



Scale = 1:53.8

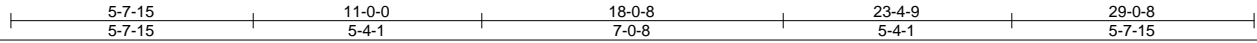
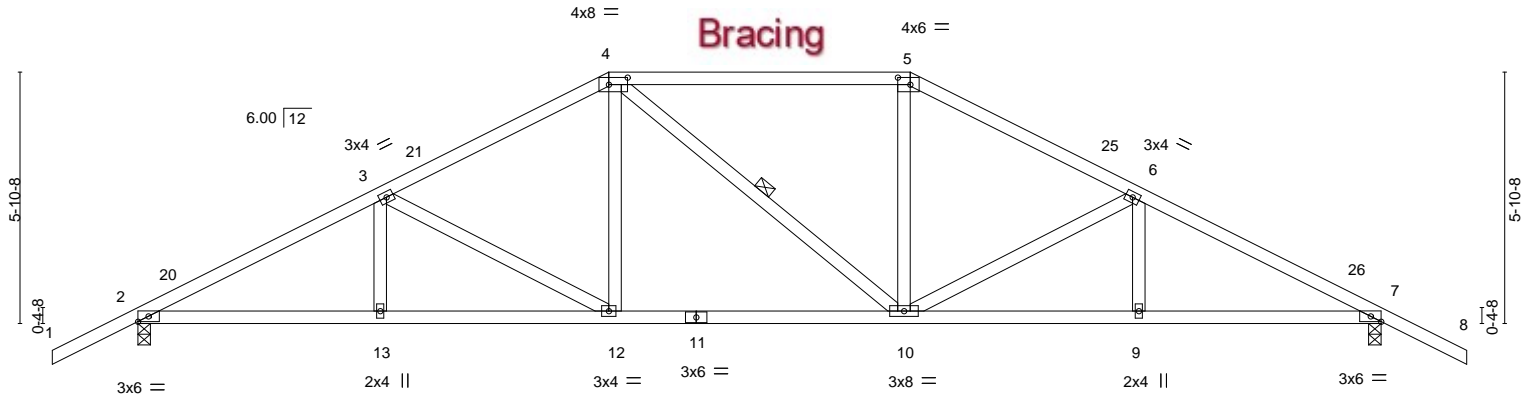


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [5:0-3-8,0-2-0], [7:0-2-15,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.85	Vert(LL)	-0.09	12	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.21	10-12	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.08	7	n/a	n/a	
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 151 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.  
BOT CHORD Rigid ceiling directly applied or 9-2-11 oc bracing.  
WEBS 1 Row at midpt 4-10

#### REACTIONS.

(size) 2=0-3-8, 7=0-3-8  
Max Horz 2=103(LC 16)  
Max Uplift 2=-305(LC 12), 7=-305(LC 13)  
Max Grav 2=1282(LC 1), 7=1282(LC 1)

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

TOP CHORD 2-3=-2124/449, 3-4=-1671/387, 4-5=-1439/382, 5-6=-1672/386, 6-7=-2124/450  
BOT CHORD 2-13=-411/1840, 12-13=-411/1840, 10-12=-236/1438, 9-10=-318/1839, 7-9=-318/1839  
WEBS 3-12=-467/199, 4-12=-55/421, 5-10=-48/421, 6-10=-467/200

#### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 18-0-8, Exterior(2R) 18-0-8 to 22-3-7, Interior(1) 22-3-7 to 31-0-8 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 2 and 305 lb uplift at joint 7.

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:

July 7,2022

**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



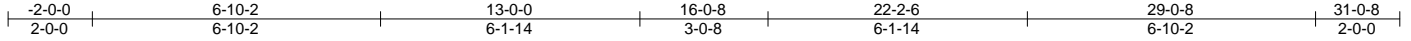
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195668
3184232	T05	Hip	2	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:21 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-1KF7YJYAFfDVjSmAaFK19\_D5SSFD49p9A1x3eoz\_mWG



Scale = 1:54.7

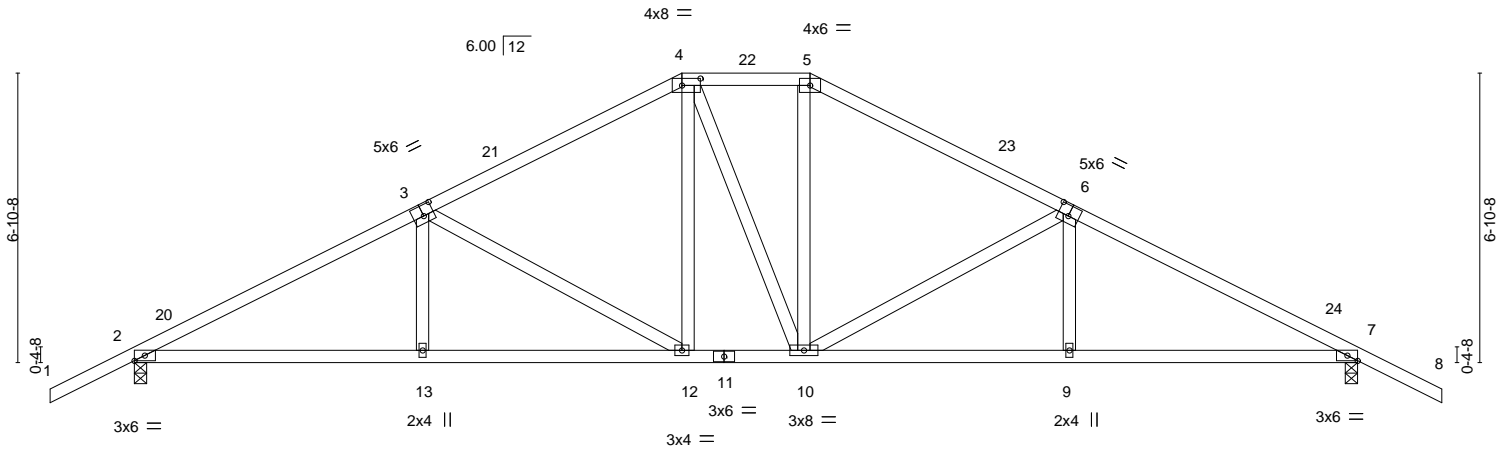


Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [4:0-5-4,0-2-0], [6:0-3-0,0-3-0], [7:0-2-15,Edge]
-----------------------	--

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	-0.09	12	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.20	12-13	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.08	7	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 157 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-2-14 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 7=0-3-8  
Max Horz 2=-119(LC 17)  
Max Uplift 2=-302(LC 12), 7=-302(LC 13)  
Max Grav 2=1282(LC 1), 7=1282(LC 1)

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

TOP CHORD 2-3=-2087/431, 3-4=-1503/361, 4-5=-1268/360, 5-6=-1504/361, 6-7=-2086/431  
BOT CHORD 2-13=-400/1798, 12-13=-399/1799, 10-12=-183/1267, 9-10=-296/1799, 7-9=-296/1797  
WEBS 3-13=0/281, 3-12=-621/249, 4-12=-91/394, 5-10=-88/396, 6-10=-619/249, 6-9=0/280

#### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 16-0-8, Exterior(2R) 16-0-8 to 20-3-7, Interior(1) 20-3-7 to 31-0-8 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 2 and 302 lb uplift at joint 7.

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:

July 7,2022

**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	REED MCDANIEL - JANAK ADDITION	T28195669
3184232	T06	Common	2	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:23 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-zjMtZ?ZQnGUdYmwYhgNVEPIOIG\_9Y8tSdLQAjgz\_mWE



Scale = 1:53.2

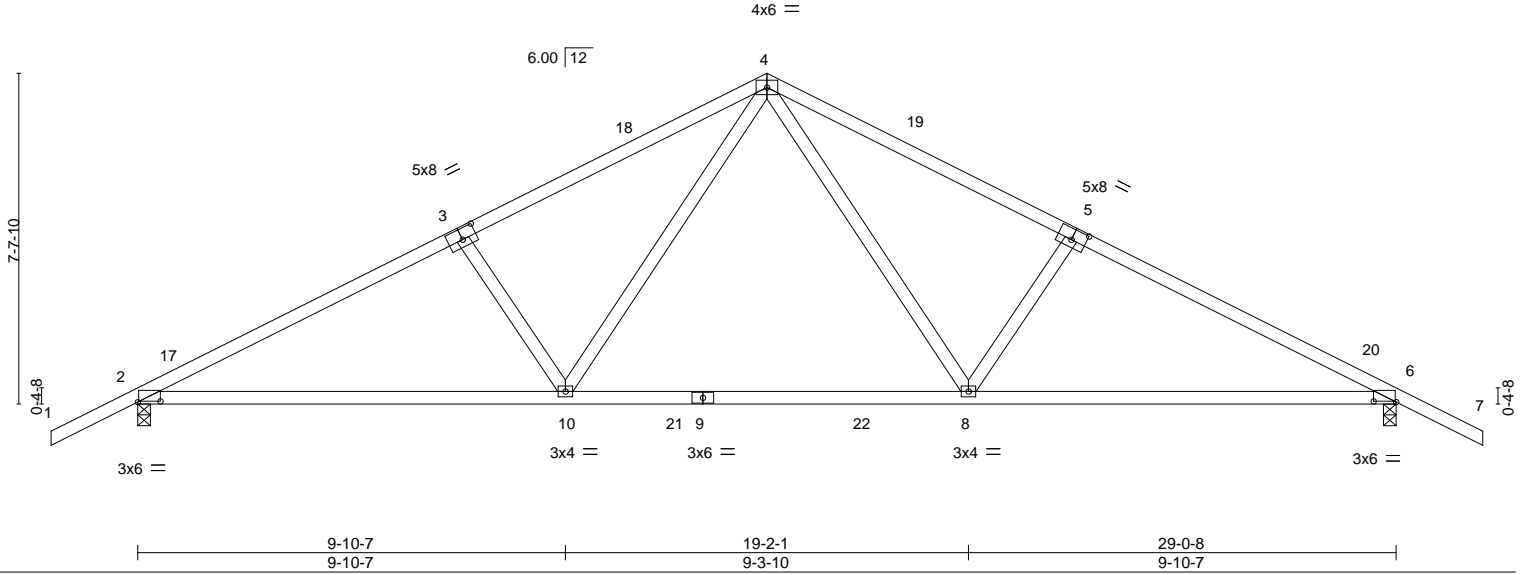


Plate Offsets (X,Y)-- [2:0-6-4,0-0-4], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-6-4,0-0-4]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.21	8-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-0.36	8-16	>957	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.05	6	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 136 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP M 31  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-2 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=-131(LC 13)  
Max Uplift 2=-299(LC 12), 6=-299(LC 13)  
Max Grav 2=1367(LC 2), 6=1367(LC 2)

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

TOP CHORD 2-3=-2177/426, 3-4=-1993/430, 4-5=-1993/430, 5-6=-2177/426  
BOT CHORD 2-10=-401/1902, 8-10=-151/1261, 6-8=-291/1902  
WEBS 4-8=-200/836, 5-8=-439/263, 4-10=-200/836, 3-10=-439/262

#### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 14-6-4, Exterior(2R) 14-6-4 to 17-6-4, Interior(1) 17-6-4 to 31-0-8 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 299 lb uplift at joint 2 and 299 lb uplift at joint 6.

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:

July 7,2022

#### 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	REED MCDANIEL - JANAK ADDITION	T28195670
3184232	T07	Hip Girder	1	1	Job Reference (optional)	

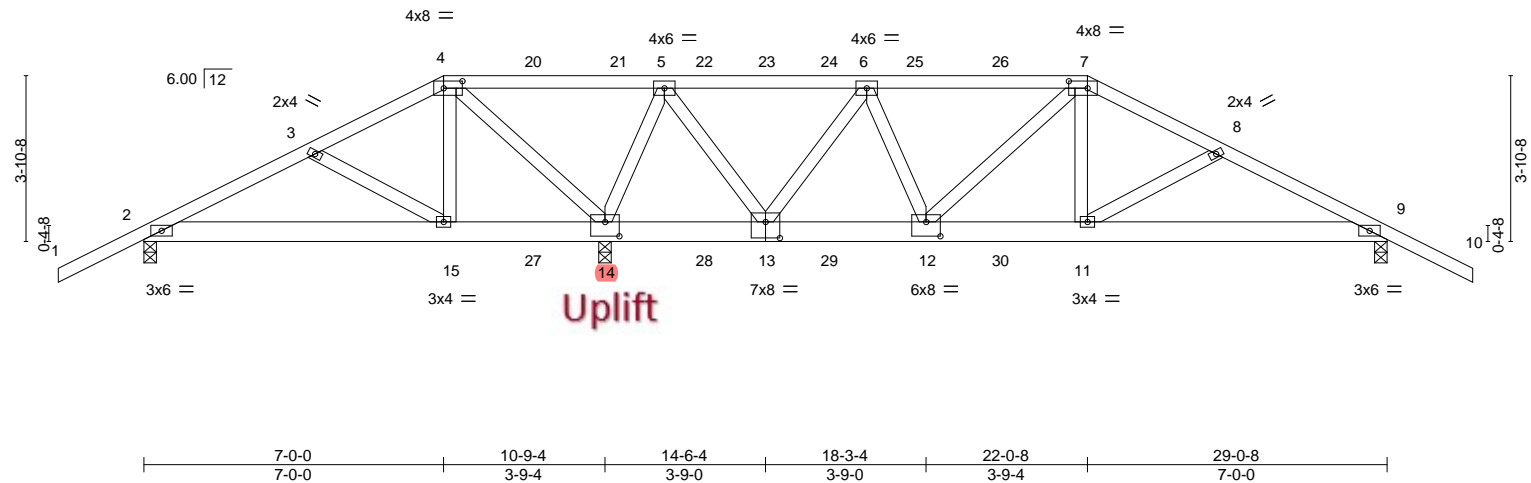
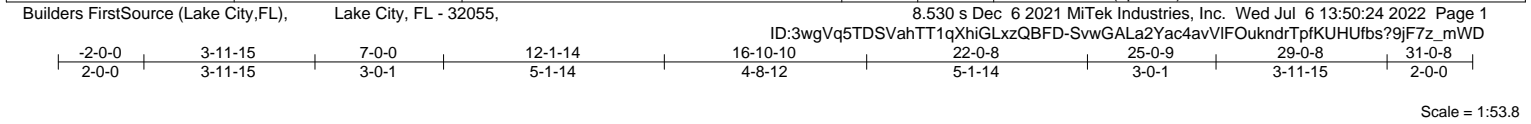


Plate Offsets (X,Y)--		[4:0-5-4,0-2-0], [7:0-5-4,0-2-0], [12:0-4-0,0-4-0], [13:0-4-0,0-4-8], [14:0-4-0,0-4-0]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 20.0	2-0-0	TC 0.97	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.25	BC 0.43	Vert(LL) 0.07 11-19 >999 240
BCLL 0.0 *	Lumber DOL 1.25	WB 0.73	Vert(CT) -0.09 11-19 >999 180
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 9 n/a n/a
	Code FBC2020/TPI2014		
		<b>PLATES</b>	<b>GRIP</b>
		MT20	244/190
		Weight: 176 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

<b>REACTIONS.</b>	(size) 2=0-3-8, 14=0-3-8 (req. 0-3-13), 9=0-3-8
	Max Horz 2=-72(LC 9)
	Max Uplift 2=-171(LC 27), 14=-1521(LC 5), 9=-503(LC 4)
	Max Grav 2=360(LC 15), 14=3230(LC 1), 9=1201(LC 20)

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-259/206, 3-4=-156/267, 4-5=-536/1251, 5-6=-416/280, 6-7=-1342/732, 7-8=-1822/924, 8-9=-2006/944
BOT CHORD	2-15=-167/271, 13-14=-486/292, 12-13=-551/1160, 11-12=-757/1620, 9-11=-797/1759
WEBS	4-15=-204/604, 4-14=-1489/655, 5-14=-2076/1034, 5-13=-756/1531, 6-13=-1342/653, 6-12=-232/557, 7-12=-394/166, 7-11=-264/639

- 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch 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.
  - WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 2, 1521 lb uplift at joint 14 and 503 lb uplift at joint 9.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb down and 101 lb up at 7-0-0, 117 lb down and 101 lb up at 9-0-12, 117 lb down and 101 lb up at 11-0-12, 117 lb down and 101 lb up at 13-0-12, 117 lb down and 93 lb up at 14-6-4, 117 lb down and 101 lb up at 15-11-12, 117 lb down and 101 lb up at 17-11-12, and 117 lb down and 101 lb up at 19-11-12, and 246 lb down and 199 lb up at 22-0-8 on top chord, and 307 lb down and 224 lb up at 7-0-0, 87 lb down and 63 lb up at 9-0-12, 87 lb down and 63 lb up at 11-0-12, 87 lb down and 63 lb up at 13-0-12, 87 lb down and 63 lb up at 14-6-4, 87 lb down and 63 lb up at 15-11-12, 87 lb down and 63 lb up at 17-11-12, and 87 lb down and 63 lb up at 19-11-12, and 307 lb down and 224 lb up at 21-11-12 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).

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:

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION
3184232	T07	Hip Girder	1	1	T28195670

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Dec 6 2021 MiTek Industries, Inc.
Wed Jul 6 13:50:24 2022
Page 2
ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-SvwGALa2Yac4avVIFOUkndrTpFkuHUfbs?9jF7z\_mWD

**LOAD CASE(S)**
Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 7-10=-60, 2-9=-20

Concentrated Loads (lb)

Vert: 4=-117(F) 7=-199(F) 13=-63(F) 15=-297(F) 14=-63(F) 12=-63(F) 11=-297(F) 20=-117(F) 21=-117(F) 22=-117(F) 23=-117(F) 24=-117(F) 25=-117(F) 26=-117(F) 27=-63(F) 28=-63(F) 29=-63(F) 30=-63(F)

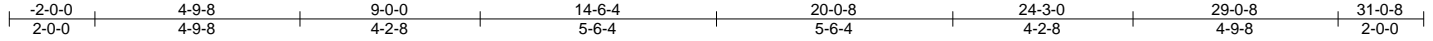


Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195671
3184232	T08	Hip	1	1	Job Reference (optional)	

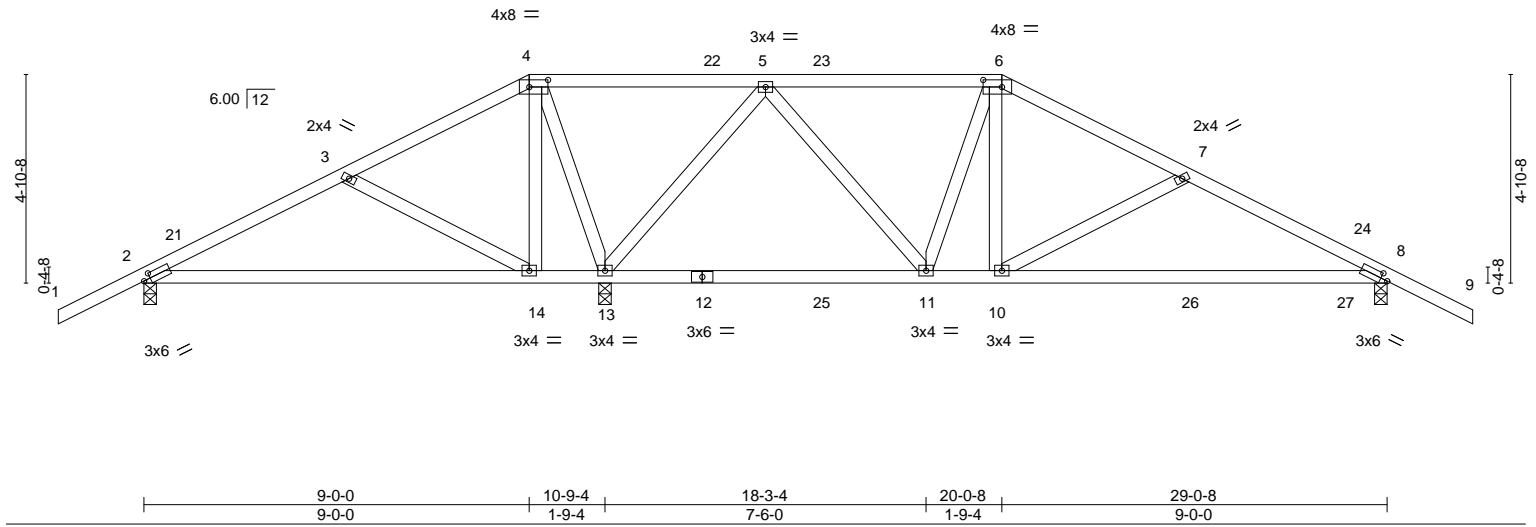
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:26 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-OH20b1bl4BsnDf7NpwCs2wx7TzdlOGuJJeqJ?z\_mWB



Scale = 1:53.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	0.27 10-20	>809	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.28 10-20	>795	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01 8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 154 lb	FT = 20%

#### LUMBER-

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

#### REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 8=0-3-8  
Max Horz 2=87(LC 12)  
Max Uplift 2=-121(LC 12), 13=-462(LC 9), 8=-252(LC 8)  
Max Grav 2=402(LC 23), 13=1463(LC 1), 8=759(LC 24)

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

TOP CHORD 3-4=-249/307, 4-5=-211/472, 5-6=-459/538, 6-7=-682/674, 7-8=-974/810  
BOT CHORD 13-14=-219/357, 10-11=-472/561, 8-10=-689/843  
WEBS 3-14=-344/178, 4-14=-42/350, 4-13=-702/197, 5-13=-943/681, 5-11=-500/451,  
6-11=-306/280, 6-10=-476/350, 7-10=-330/262

#### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 20-0-8, Exterior(2R) 20-0-8 to 24-4-15, Interior(1) 24-4-15 to 31-0-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 121 lb uplift at joint 2, 462 lb uplift at joint 13 and 252 lb uplift at joint 8.

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:

July 7, 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



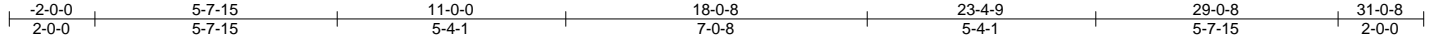
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195672
3184232	T09	Hip	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:27 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-sUcOpNcwrV\_eRNEKwWRRPFT3etMvUst1YzOOsSz\_mWA



Scale = 1:53.8

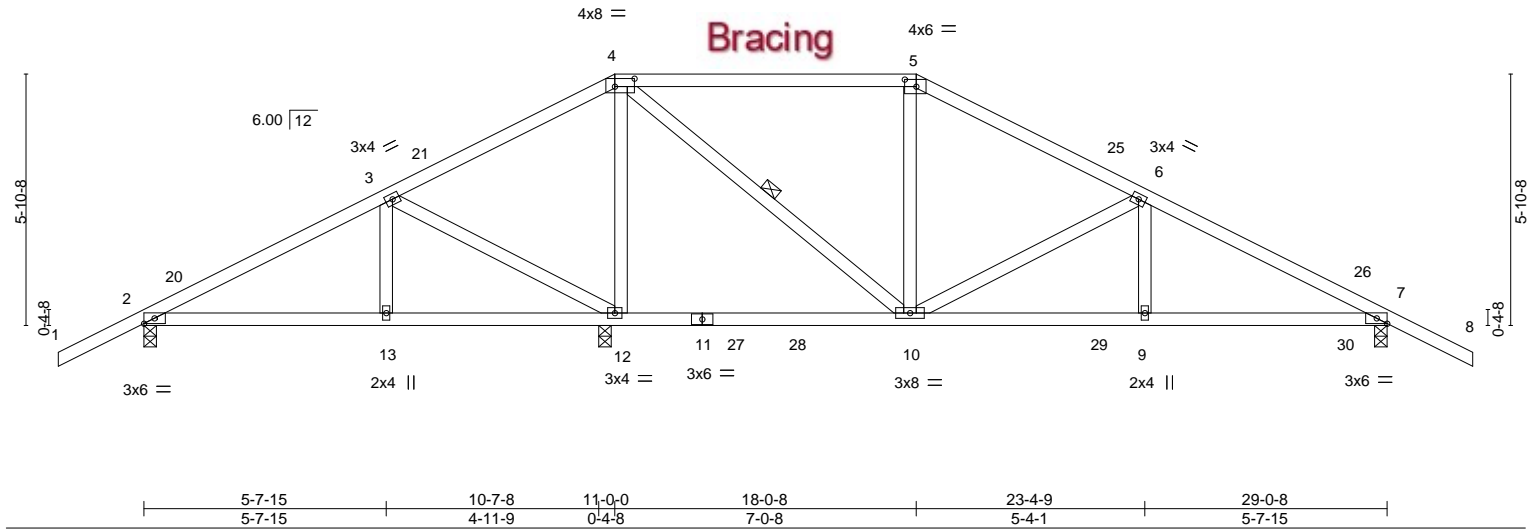


Plate Offsets (X,Y)--		[4:0-5-8,0-2-4], [5:0-3-4,0-2-0], [7:0-2-15,Edge]									
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.11 10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.09 10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.01 7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 151 lb	FT = 20%

#### LUMBER-

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

#### REACTIONS.

(size) 2=0-3-8, 12=0-3-8, 7=0-3-8  
Max Horz 2=103(LC 12)  
Max Uplift 2=137(LC 12), 12=354(LC 9), 7=252(LC 8)  
Max Grav 2=454(LC 23), 12=1407(LC 1), 7=765(LC 24)

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

TOP CHORD 2-3=-333/86, 3-4=-128/381, 4-5=-405/503, 5-6=-531/522, 6-7=-1006/909  
BOT CHORD 10-12=-305/285, 9-10=-745/843, 7-9=-745/843  
WEBS 3-12=-503/207, 4-12=-1044/671, 4-10=-757/854, 6-10=-493/496, 6-9=-264/221

#### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 18-0-8, Exterior(2R) 18-0-8 to 22-3-7, Interior(1) 22-3-7 to 31-0-8 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 137 lb uplift at joint 2, 354 lb uplift at joint 12 and 252 lb uplift at joint 7.

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:

July 7,2022

#### 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



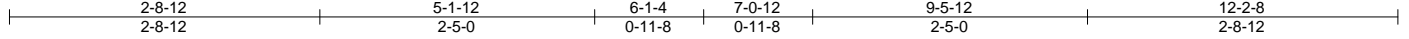
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REED MCDANIEL - JANAK ADDITION	T28195673
3184232	TFG01	FLOOR	1	3	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 13:50:27 2022 Page 1

ID:3wgVq5TDSVahTT1qXhiGLxzQBFD-sUcOpNcwrV\_eRNEKwWRRPFT1MtlHUnn1YzOOsSz\_mWA



Scale = 1:20.3

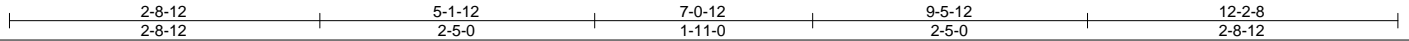
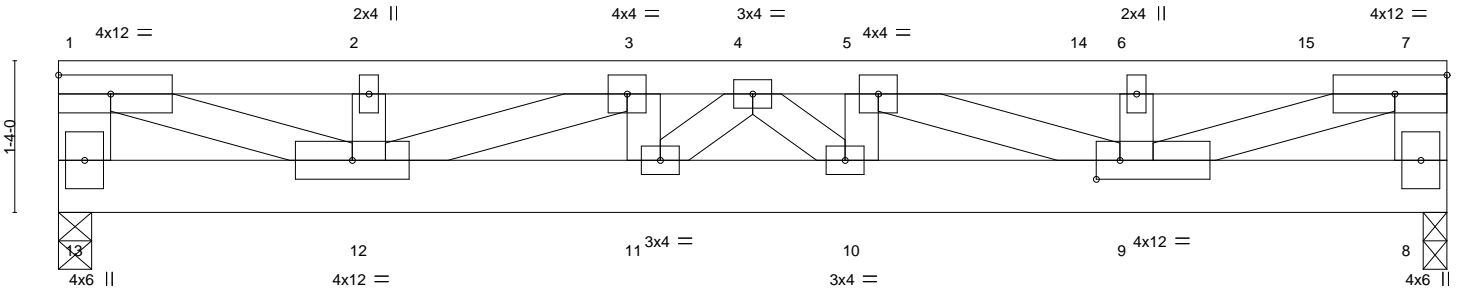


Plate Offsets (X,Y)-- [9:0-2-8,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00		TC 0.83	Vert(LL) -0.16	10	>872	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00		BC 0.61	Vert(CT) -0.22	10-11	>634	240		
BCLL 0.0	Rep Stress Incr NO		WB 0.90	Horz(CT) 0.02	8	n/a	n/a		
BCDL 5.0	Code FBC2020/TP12014		Matrix-MS					Weight: 207 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP M 26  
 WEBS 2x4 SP No.3 "Except"  
 1-13,7-8: 2x6 SP No.2, 1-12,3-12,5-9,7-9: 2x4 SP No.2

#### BRACING-

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

#### REACTIONS.

(size) 13=0-3-8, 8=0-2-8  
 Max Grav 13=3186(LC 1), 8=5638(LC 1)

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

TOP CHORD 1-13=-2667/0, 1-2=-6734/0, 2-3=-6734/0, 3-4=-12482/0, 4-5=-15839/0, 5-6=-10335/0, 6-7=-10335/0, 7-8=-4685/0  
 BOT CHORD 12-13=0/717, 11-12=0/12482, 10-11=0/14291, 9-10=0/15839, 8-9=0/1392  
 WEBS 1-12=0/6444, 2-12=-499/0, 3-12=-6183/0, 3-11=0/1948, 4-10=0/2190, 5-10=-1476/0, 5-9=-5922/0, 6-9=-2354/0, 7-9=0/9577, 4-11=-2558/0

#### NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.  
 Strongbacks to be attached to walls at their outer ends or restrained by other means.

#### LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 1-7=-223, 8-13=-9  
 Concentrated Loads (lb)  
 Vert: 5=-3230 14=-1463 15=-1407

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:

July 7,2022

**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

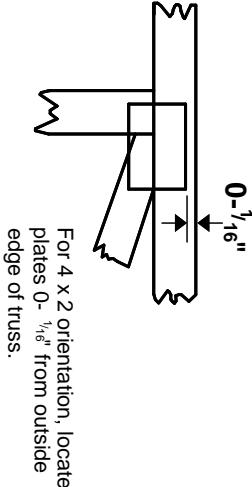
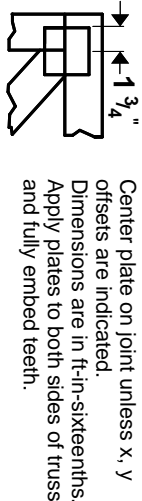
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

# Symbols

## PLATE LOCATION AND ORIENTATION



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

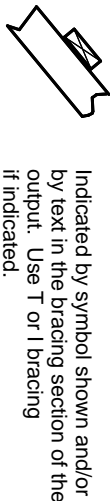
This symbol indicates the required direction of slots in connector plates.

## PLATE SIZE

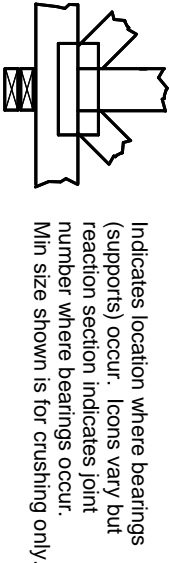
4 X 4

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

## LATERAL BRACING LOCATION

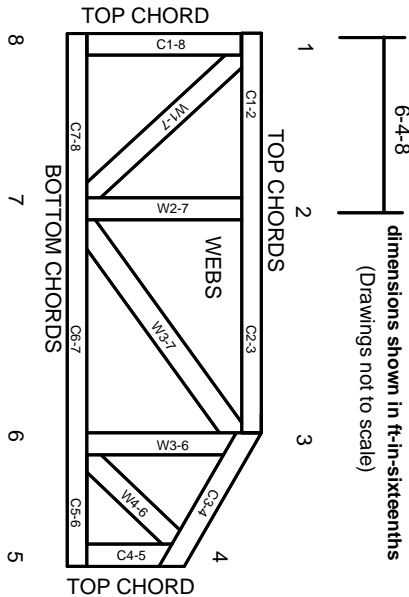


## BEARING



**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



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.

© 2012 MITek® All Rights Reserved



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.