





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

RE: 2857394 - REED - STEPHAN RES.

**MiTek USA, Inc.**

6904 Parke East Blvd.  
 Tampa, FL 33610-4115

**Site Information:**

Customer Info: Reed McDaniel Const. Project Name: Stephan Res Model: Custom  
 Lot/Block: N/A Subdivision: N/A  
 Address: 234 SW Grassy Lane, N/A  
 City: Columbia Cty State: FK

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

Name: License #:  
 Address: State:  
 City:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4  
 Wind Code: ASCE 7-16 Wind Speed: 130 mph  
 Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 49 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	T25127977	CJ01	8/24/21	23	T25127999	T07	8/24/21
2	T25127978	CJ03	8/24/21	24	T25128000	T08	8/24/21
3	T25127979	CJ03A	8/24/21	25	T25128001	T09	8/24/21
4	T25127980	CJ03B	8/24/21	26	T25128002	T10	8/24/21
5	T25127981	CJ05	8/24/21	27	T25128003	T11	8/24/21
6	T25127982	CJ05A	8/24/21	28	T25128004	T12	8/24/21
7	T25127983	CJ05B	8/24/21	29	T25128005	T13	8/24/21
8	T25127984	EJ01	8/24/21	30	T25128006	T14	8/24/21
9	T25127985	EJ01A	8/24/21	31	T25128007	T15	8/24/21
10	T25127986	EJ02	8/24/21	32	T25128008	T16	8/24/21
11	T25127987	HJ07	8/24/21	33	T25128009	T17	8/24/21
12	T25127988	HJ10	8/24/21	34	T25128010	T18	8/24/21
13	T25127989	PB01	8/24/21	35	T25128011	T19	8/24/21
14	T25127990	PB02	8/24/21	36	T25128012	T20	8/24/21
15	T25127991	PB03	8/24/21	37	T25128013	T21	8/24/21
16	T25127992	PB04	8/24/21	38	T25128014	T22	8/24/21
17	T25127993	T01	8/24/21	39	T25128015	T22G	8/24/21
18	T25127994	T02	8/24/21	40	T25128016	T23	8/24/21
19	T25127995	T03	8/24/21	41	T25128017	T24	8/24/21
20	T25127996	T04	8/24/21	42	T25128018	T24G	8/24/21
21	T25127997	T05	8/24/21	43	T25128019	T25	8/24/21
22	T25127998	T06	8/24/21	44	T25128020	T25G	8/24/21



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: ORegan, 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 USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

August 24,2021



RE: 2857394 - REED - STEPHAN RES.

**MiTek USA, Inc.**  
6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

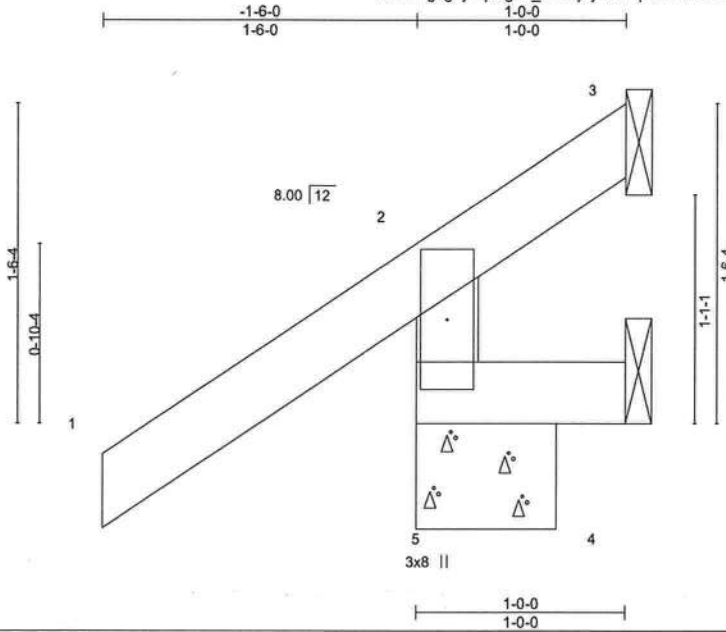
Customer Info: Reed McDaniel Const.    Project Name: Stephan Res    Model: Custom  
Lot/Block: N/A    Subdivision: N/A  
Address: 234 SW Grassy Lane, N/A  
City: Columbia Cty    State: FK

No.	Seal#	Truss Name	Date
45	T25128021	T26	8/24/21
46	T25128022	T26G	8/24/21
47	T25128023	T27	8/24/21
48	T25128024	T28	8/24/21
49	T25128025	T29	8/24/21

Job 2857394	Truss CJ01	Truss Type JACK-OPEN	Qty 12	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127977
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:17 2021 Page 1  
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Scale = 1:10.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24	Vert(LL)	0.00	5	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MR					Weight: 7 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 1-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 5=0-8-0, 3=Mechanical, 4=Mechanical  
Max Horz 5=44(LC 12)  
Max Uplift 5=-56(LC 12), 3=-42(LC 1), 4=-14(LC 1)  
Max Grav 5=207(LC 1), 3=11(LC 16), 4=10(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left 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) 5, 3, 4.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

August 24,2021

**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



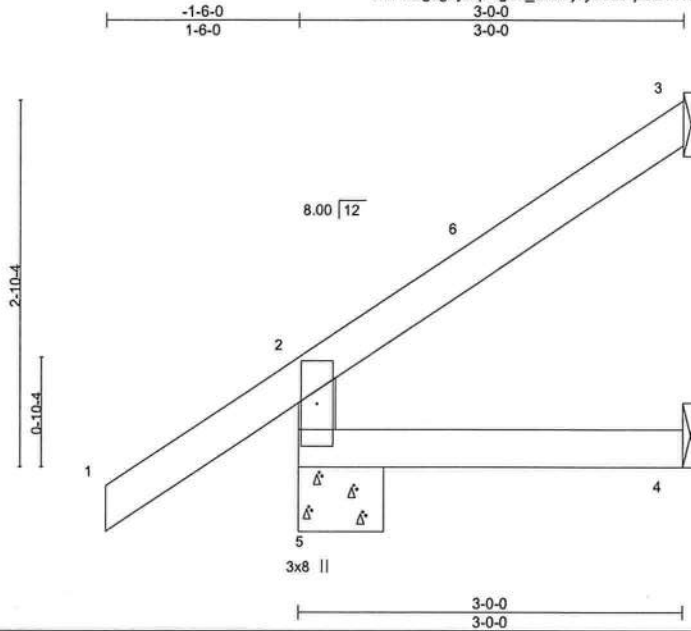
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2857394	Truss CJ03	Truss Type Jack-Open	Qty 10	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127978
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:17 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	Vert(LL)	-0.00	4-5	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.09	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code FBC2020/TPI2014						Weight: 13 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 3-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 5=0-8-0, 3=Mechanical, 4=Mechanical  
 Max Horz 5=89(LC 12)  
 Max Uplift 5=-37(LC 12), 3=-51(LC 12), 4=-3(LC 12)  
 Max Grav 5=218(LC 1), 3=62(LC 19), 4=50(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; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; end vertical left 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) 5, 3, 4.



Phillip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

August 24, 2021

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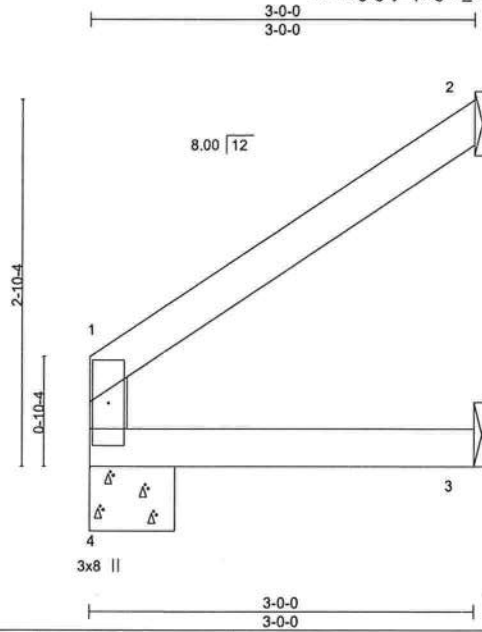
6904 Parke East Blvd.  
 Tampa, FL 36610

Job 2857394	Truss CJ03A	Truss Type Jack-Open	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127979
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:17.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.11	Vert(LL) 0.01 3-4 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.01 3-4 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.01 2 n/a n/a		
	Code FBC2020/TPI2014			Weight: 11 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 3-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 4=0-8-0, 2=Mechanical, 3=Mechanical  
Max Horz 4=64(LC 12)  
Max Uplift 2=-58(LC 12), 3=-6(LC 12)  
Max Grav 4=103(LC 1), 2=76(LC 19), 3=53(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.



Phillip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: August 24,2021

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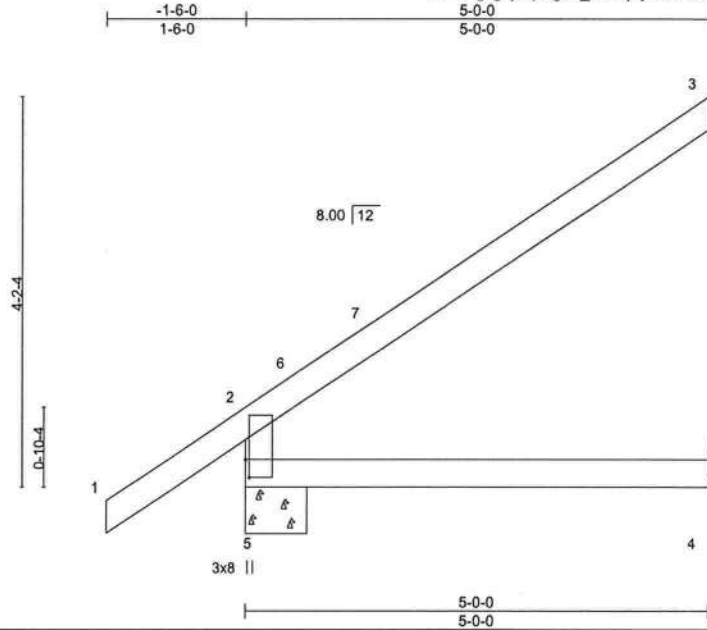
6904 Parke East Blvd.  
Tampa, FL 33610



Job 2857394	Truss CJ05	Truss Type Jack-Open	Qty 8	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127981
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

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Scale: 1/2"=1'

Plate Offsets (X,Y)--	[5:0-2-5,0-0-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL) 0.03	4-5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.25	Vert(CT) -0.05	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.02	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MR					Weight: 20 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 5-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 5=0-8-0, 3=Mechanical, 4=Mechanical  
Max Horz 5=135(LC 12)  
Max Uplift 5=-37(LC 12), 3=-89(LC 12), 4=-4(LC 12)  
Max Grav 5=281(LC 1), 3=121(LC 19), 4=89(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; end vertical left 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) 5, 3, 4.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

August 24, 2021

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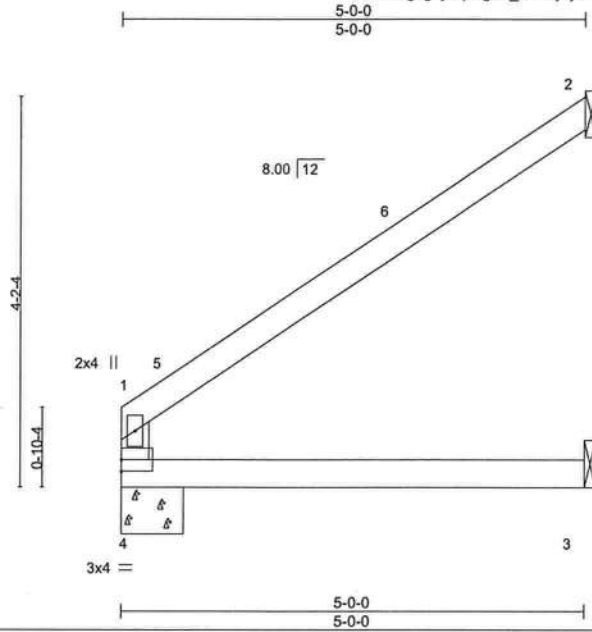
6904 Parke East Blvd.  
Tampa, FL 38610

Job 2857394	Truss CJ05A	Truss Type Jack-Open	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127982
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:20 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	Vert(LL) 0.03	3-4	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.27	Vert(CT) -0.05	3-4	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT) -0.03	2	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR					Weight: 17 lb	FT = 20%
	Code FBC2020/TPI2014							

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 4=0-8-0, 2=Mechanical, 3=Mechanical  
 Max Horz 4=110(LC 12)  
 Max Uplift 2=-93(LC 12), 3=-6(LC 12)  
 Max Grav 4=177(LC 1), 2=128(LC 19), 3=91(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; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.



Phillip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

August 24, 2021

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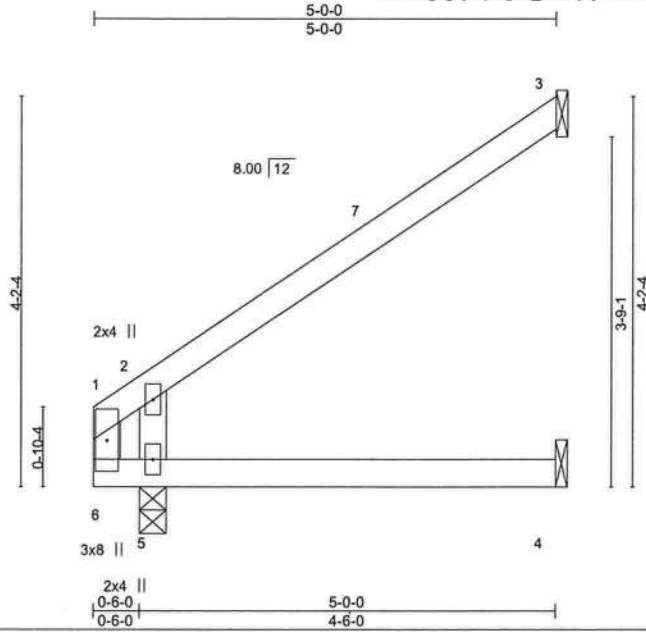


6904 Parke East Blvd.  
 Tampa, FL 33610

Job 2857394	Truss CJ05B	Truss Type Jack-Open	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127983
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:21 2021 Page 1  
ID:FuUgsgvyhc6ga7\_3v9Gj?yb6k0-iD80MbSq3dgeJl6ICRa3pb38tybMOEc36eB5Kzykwvy



Scale: 1/2"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	0.03	4-5	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.29	Vert(CT)	-0.03	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.08	Horz(CT)	-0.04	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					Weight: 18 lb	FT = 20%
	Code FBC2020/TPI2014							

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8  
Max Horz 5=110(LC 12)  
Max Uplift 3=-87(LC 12), 4=-12(LC 12)  
Max Grav 3=115(LC 19), 4=80(LC 3), 5=198(LC 1)

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

WEBS 2-5=-242/271

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

August 24,2021

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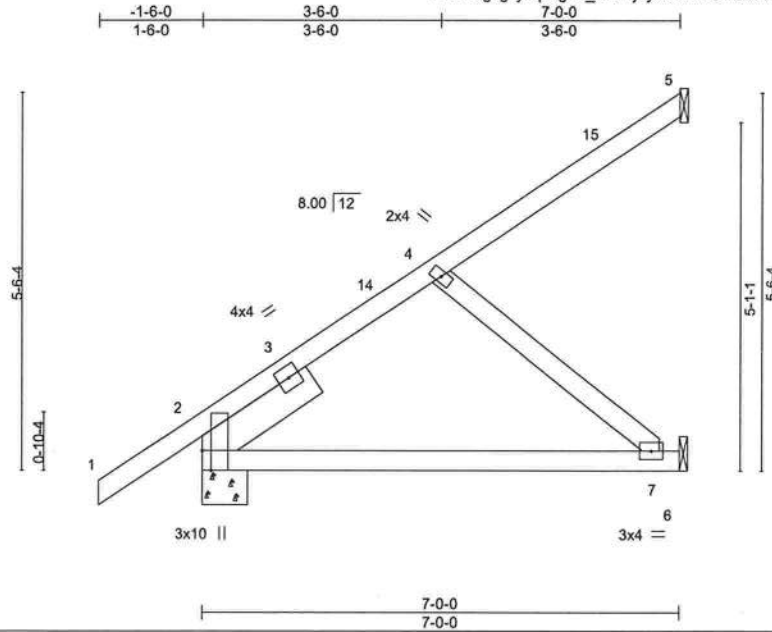
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2857394	Truss EJ01	Truss Type Jack-Partial	Qty 26	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127984
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:22 2021 Page 1  
ID:FuUgsvyqhqc6ga7\_3v9Gj?yb6k0-AQiOZxTSqwoVxvhum85IMocL8Lv57h0DLlwesPykwvx



Scale = 1:32.4

Plate Offsets (X,Y)-- [2:0-3-8,Edge]		CSI.		DEFL.		PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	TC	0.17	in (loc)	l/defl	L/d	
TCLL 20.0	Plate Grip DOL 1.25	BC	0.38	Vert(LL) -0.06	7-12 >999	240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	WB	0.07	Vert(CT) -0.12	7-12 >696	180	
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS		Horz(CT) 0.01	5 n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014						Weight: 37 lb FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-8

**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) 5=Mechanical, 2=0-8-0, 6=Mechanical  
 Max Horz 2=182(LC 12)  
 Max Uplift 5=-47(LC 12), 2=-45(LC 12), 6=-68(LC 12)  
 Max Grav 5=84(LC 19), 2=364(LC 1), 6=164(LC 19)

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

TOP CHORD 2-4=-261/0

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

August 24,2021

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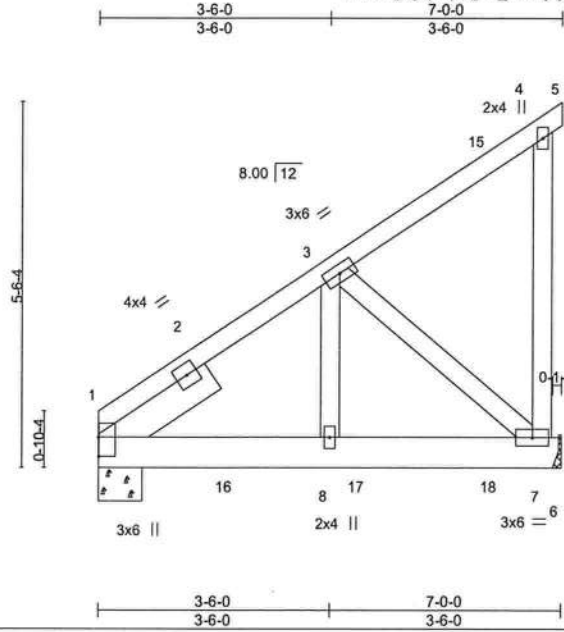
6904 Parke East Blvd.  
 Tampa, FL 33610

Job 2857394	Truss EJ01A	Truss Type Jack-Open Girder	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127985
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:22 2021 Page 1

ID:FuUgsgvyhqc6ga7\_3v9Gj7yb6k0-AQIOZXTSqwoVxvhum85IMocLcLvJ7emDLlwesPykwvx



Scale = 1:33.5

Plate Offsets (X,Y)--	[1:0-3-8,0-0-1]				
<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 0.14	Vert(LL) -0.01 7-8 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.37	Vert(CT) -0.02 7-8 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.28	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 50 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8	

**REACTIONS.** (size) 1=0-8-0, 7=Mechanical  
 Max Horz 1=153(LC 8)  
 Max Uplift 1=-121(LC 8), 7=-272(LC 8)  
 Max Grav 1=791(LC 1), 7=935(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-724/106  
 BOT CHORD 1-8=-192/576, 7-8=-192/576  
 WEBS 3-8=-149/731, 3-7=-762/255

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=121, 7=272.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 406 lb down and 102 lb up at 1-11-4, and 406 lb down and 102 lb up at 3-11-4, and 406 lb down and 102 lb up at 5-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=-54, 4-5=-14, 6-9=-20  
 Concentrated Loads (lb)  
 Vert: 16=-406(B) 17=-406(B) 18=-406(B)



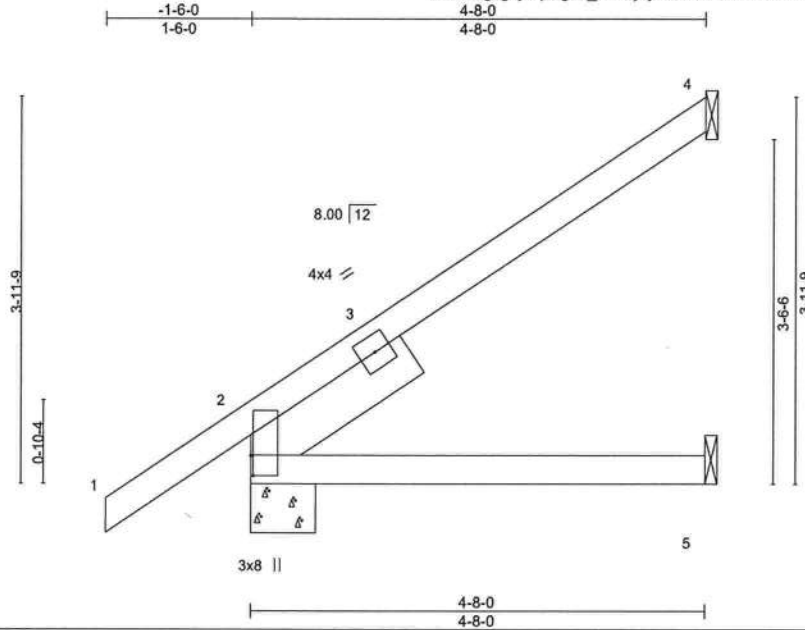
Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

Job 2857394	Truss EJ02	Truss Type Jack-Open	Qty 4	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127986
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

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Scale = 1:22.8

Plate Offsets (X,Y)-- [2:0-2-8,0-0-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	Vert(LL)	0.02	5-10	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.21	Vert(CT)	-0.03	5-10	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.02	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					Weight: 23 lb	FT = 20%
	Code FBC2020/TPI2014							

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
SLIDER Left 2x6 SP No.2 1-11-8

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

**REACTIONS.** (size) 4=Mechanical, 2=0-8-0, 5=Mechanical  
Max Horz 2=135(LC 12)  
Max Uplift 4=80(LC 12), 2=-38(LC 12), 5=-6(LC 12)  
Max Grav 4=102(LC 19), 2=285(LC 1), 5=75(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; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-7-4 zone; end vertical left 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) 4, 2, 5.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: August 24, 2021

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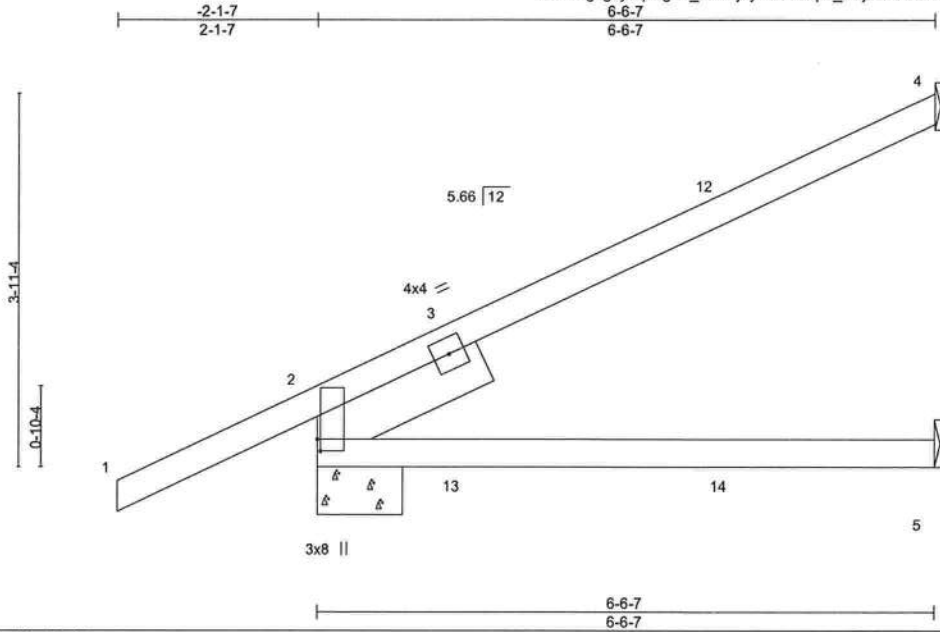
Job 2857394	Truss HJ07	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127987
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:24 2021 Page 1

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Scale = 1:23.4

Plate Offsets (X,Y)--	[2:0-1-8,0-0-6]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	Vert(LL) 0.07	5-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.37	Vert(CT) -0.10	5-10	>765	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.05	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 29 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 SLIDER Left 2x6 SP No.2 1-11-8

**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=0-10-15, 5=Mechanical  
 Max Horz 2=135(LC 8)  
 Max Uplift 4=-106(LC 8), 2=-165(LC 8), 5=-18(LC 8)  
 Max Grav 4=128(LC 32), 2=350(LC 1), 5=102(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-118/268

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=106, 2=165.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 118 lb up at 1-6-1, 54 lb down and 118 lb up at 1-6-1, and 81 lb down and 53 lb up at 4-4-0, and 81 lb down and 53 lb up at 4-4-0 on top chord, and 8 lb down and 42 lb up at 1-6-1, 8 lb down and 42 lb up at 1-6-1, and 24 lb down and 10 lb up at 4-4-0, and 24 lb down and 10 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=-54, 5-6=-20  
 Concentrated Loads (lb)  
 Vert: 3=60(F=30, B=30) 14=3(F=2, B=2)



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24,2021

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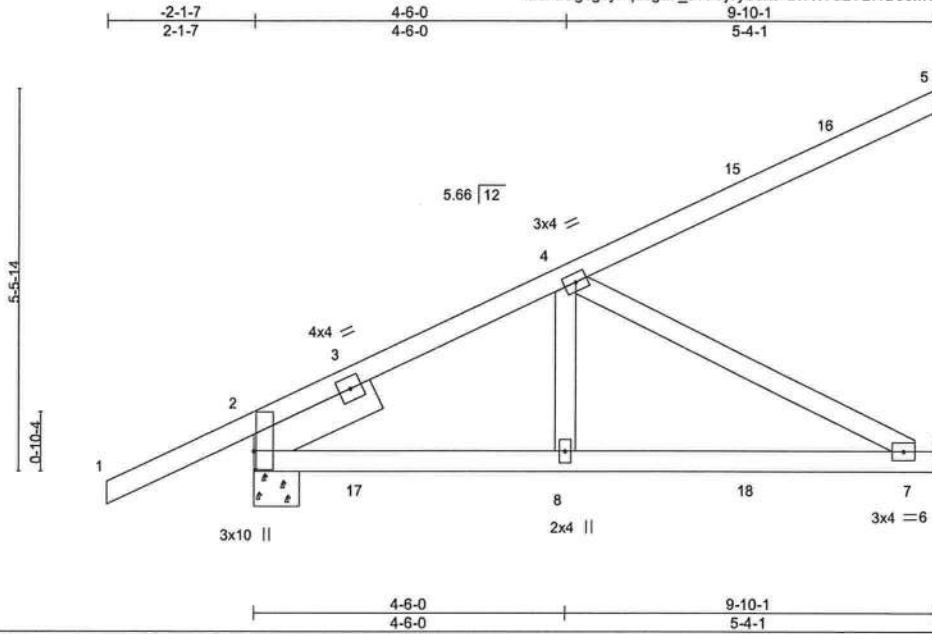
Job 2857394	Truss HJ10	Truss Type DIAGONAL HIP GIRDER	Qty 5	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127988
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Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:25 2021 Page 1

ID:FuUgsgvyhqc6ga7\_3v9Gj?yb6k0-a?NWCzVL7rB3oMQTRHf?zREKZZupK\_Mf1G9JTkykwvu



Scale: 3/8"=1'

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.06 7-8 >999 240	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.12 7-8 >948 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	-0.03 5 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 51 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-8

**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) 5=Mechanical, 2=0-8-0, 6=Mechanical  
 Max Horz 2=182(LC 8)  
 Max Uplift 5=-103(LC 8), 2=-231(LC 8), 6=-139(LC 8)  
 Max Grav 5=157(LC 1), 2=486(LC 35), 6=273(LC 32)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-518/218  
 BOT CHORD 2-8=-280/398, 7-8=-280/398  
 WEBS 4-7=-450/317

- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left 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.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=103, 2=231, 6=139.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 118 lb up at 1-6-1, 54 lb down and 118 lb up at 1-6-1, 81 lb down and 53 lb up at 4-4-0, 81 lb down and 53 lb up at 4-4-0, and 111 lb down and 100 lb up at 7-1-15, and 111 lb down and 100 lb up at 7-1-15 on top chord, and 8 lb down and 42 lb up at 1-6-1, 8 lb down and 42 lb up at 1-6-1, 24 lb down and 10 lb up at 4-4-0, 24 lb down and 10 lb up at 4-4-0, and 46 lb down and 18 lb up at 7-1-15, and 46 lb down and 18 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-5=-54, 6-9=-20  
 Concentrated Loads (lb)  
 Vert: 8=3(F=2, B=2) 3=60(F=30, B=30) 15=-69(F=-35, B=-35) 18=-46(F=-23, B=-23)



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

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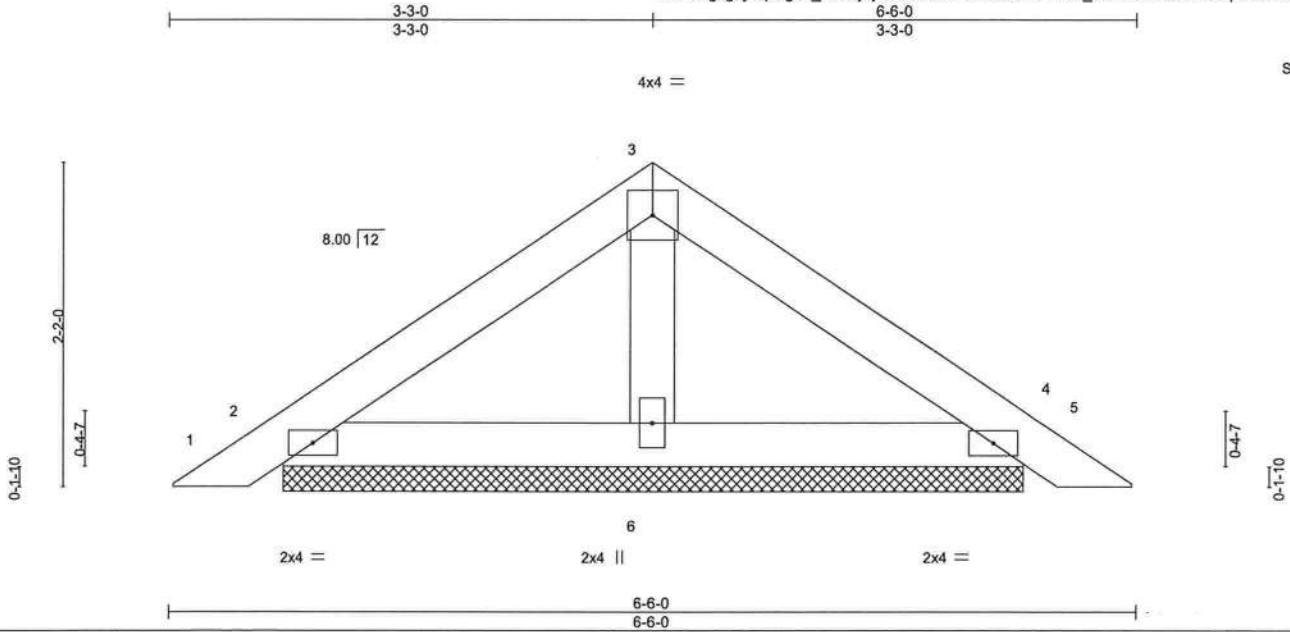


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 Tampa, FL 33610

Job 2857394	Truss PB01	Truss Type Piggyback	Qty 6	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127989
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:26 2021 Page 1  
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.06	Vert(LL) 0.00 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Vert(CT) 0.00 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 21 lb	FT = 20%
	Code FBC2020/TP12014				

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 2=4-11-12, 4=4-11-12, 6=4-11-12  
Max Horz 2=44(LC 11)  
Max Uplift 2=-41(LC 12), 4=-47(LC 13), 6=-11(LC 12)  
Max Grav 2=127(LC 1), 4=127(LC 1), 6=167(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

August 24, 2021

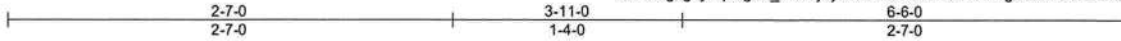
**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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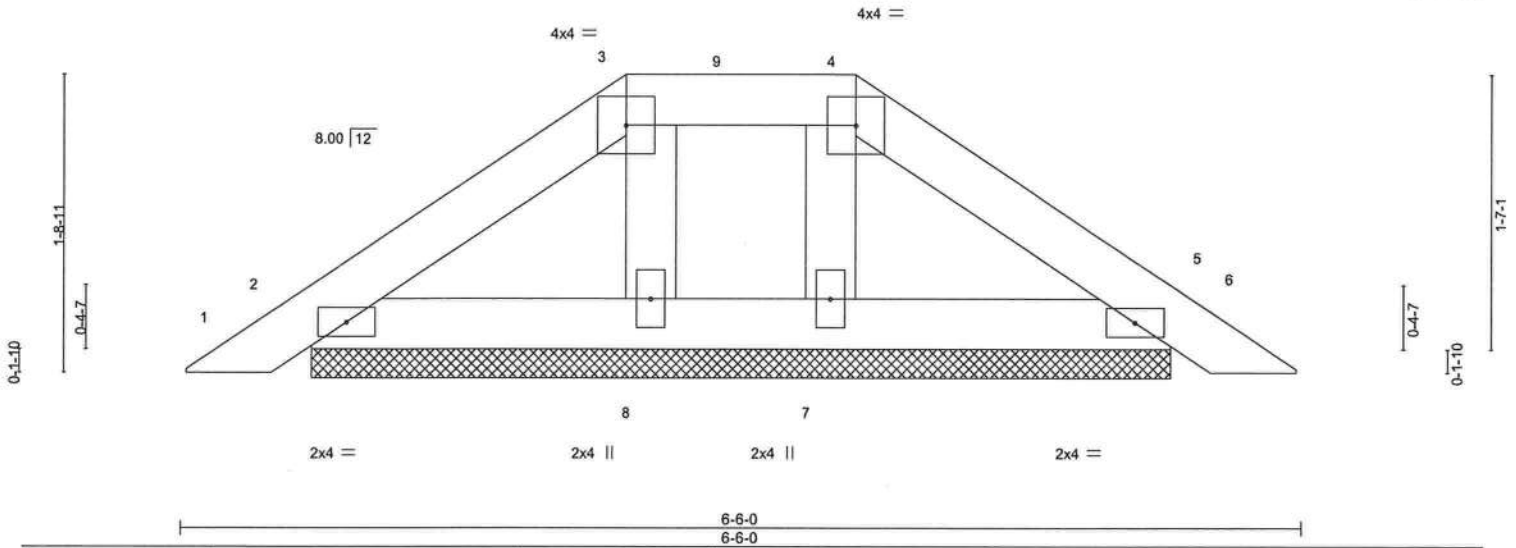
Job 2857394	Truss PB02	Truss Type Piggyback	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127990
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:27 2021 Page 1  
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.03	Vert(LL) 0.00 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.01	Vert(CT) 0.00 6 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code FBC2020/TP12014			Weight: 22 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

All bearings 4-11-12.  
(lb) - Max Horz 2=34(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8  
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 7, 8

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

August 24, 2021

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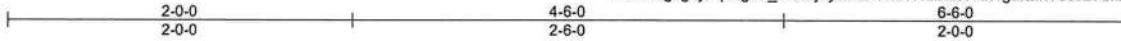
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2857394	Truss PB03	Truss Type Piggyback	Qty 1	Ply 1	REED - STEPHAN RES.	T25127991
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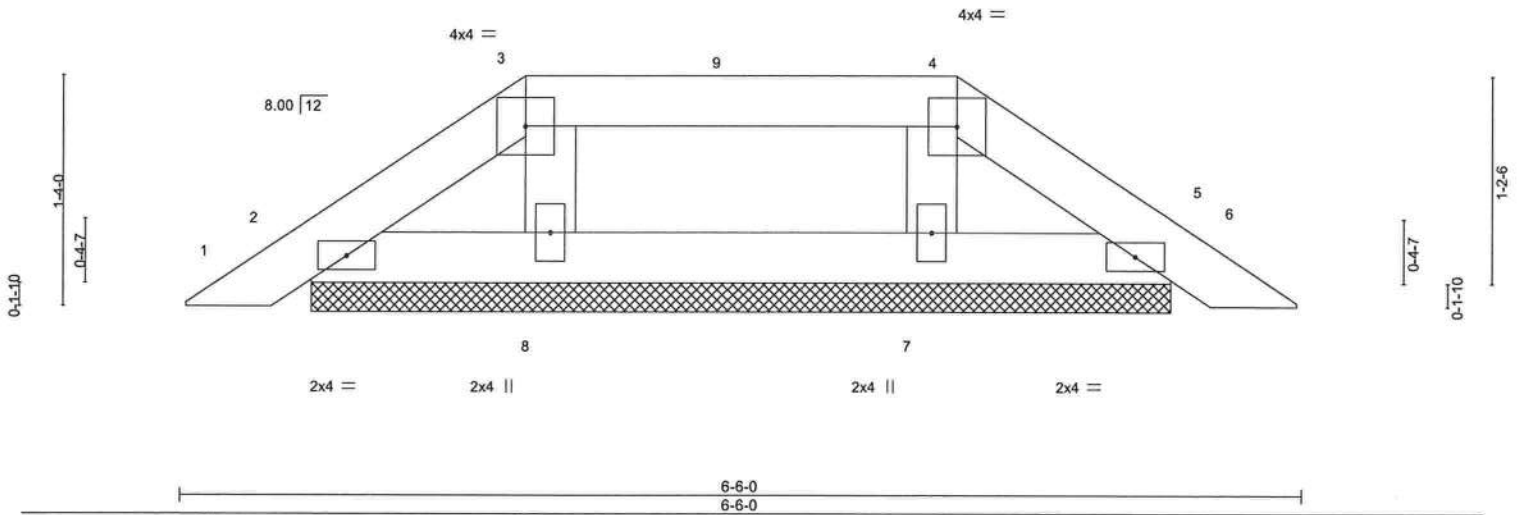
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:27 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.03	Vert(LL) 0.00 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Vert(CT) 0.00 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code FBC2020/TP12014			Weight: 20 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.**

All bearings 4-11-12.  
 (lb) - Max Horz 2=26(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7  
 Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

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 Tampa, FL 33610

Job 2857394	Truss PB04	Truss Type Piggyback	Qty 6	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25127992
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8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:28 2021 Page 1  
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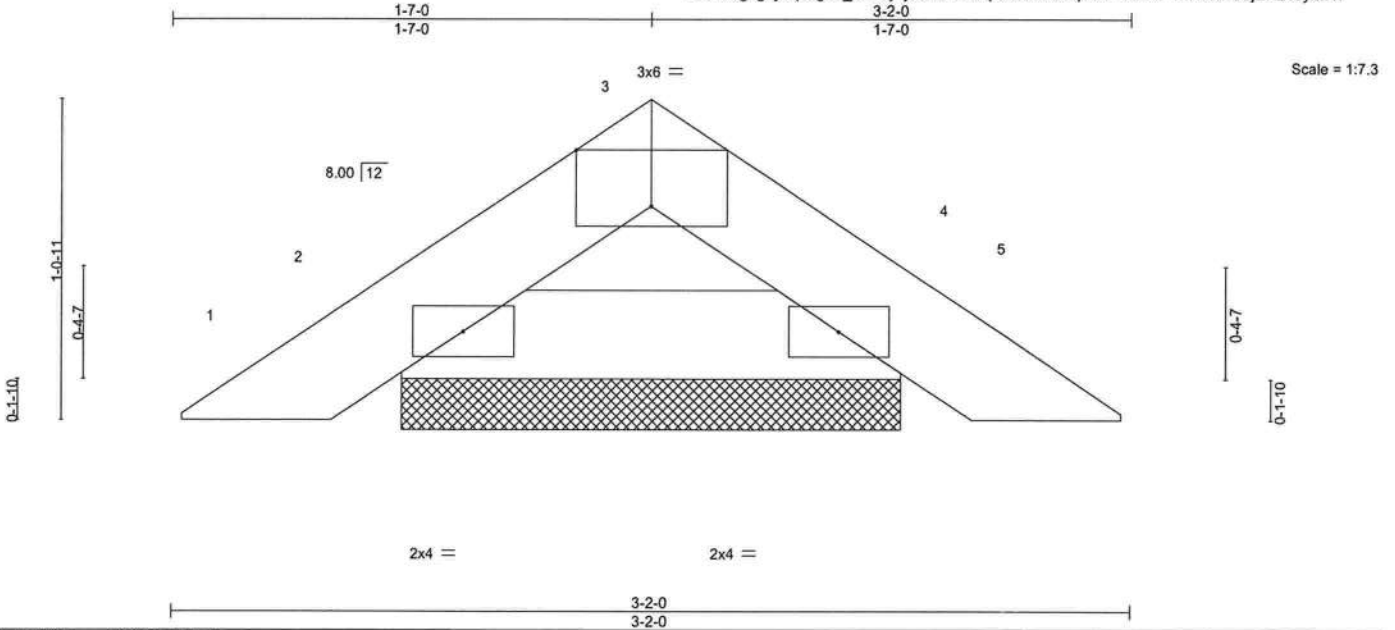


Plate Offsets (X,Y)--		[3:0-3-0,Edge]						PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL	1.25	TC 0.02	Vert(LL)	-0.00	4	n/r		
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	4	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 8 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 2=1-7-12, 4=1-7-12  
Max Horz 2=19(LC 11)  
Max Uplift 2=-23(LC 12), 4=-23(LC 13)  
Max Grav 2=87(LC 1), 4=87(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
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Job 2857394	Truss T02	Truss Type Common	Qty 3	Ply 1	REED - STEPHAN RES.	T25127994
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8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:30 2021 Page 1  
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4x6 ||

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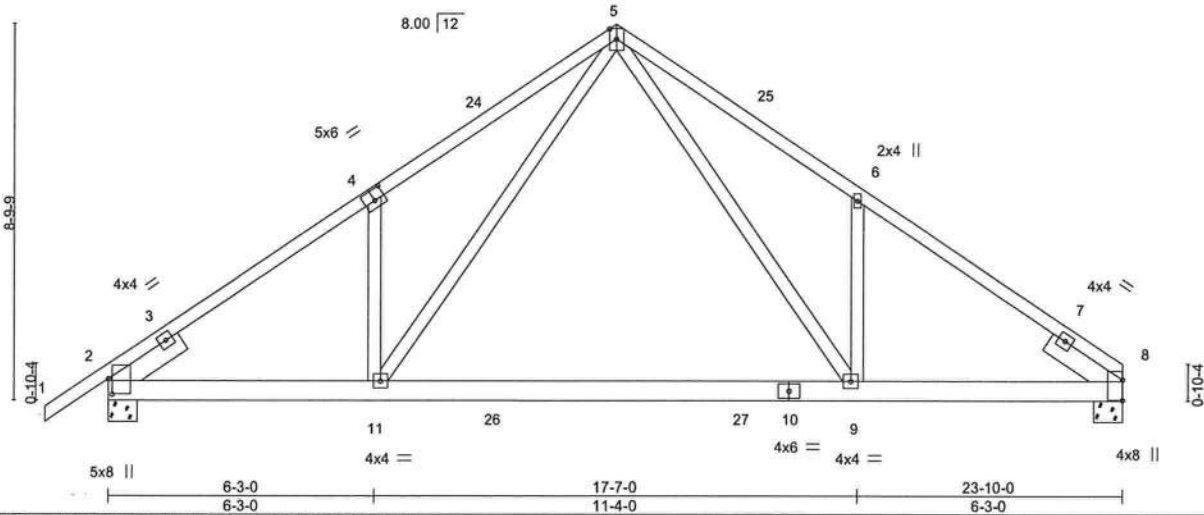


Plate Offsets (X,Y)--	[2:0-4-5,0-1-1], [4:0-3-0,0-3-0], [8:0-5-13,0-0-1]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.97	Vert(LL)	-0.32	9-11	>898	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.85	Vert(CT)	-0.60	9-11	>477		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.68	Horz(CT)	0.05	8	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code FBC2020/TPI2014						Weight: 152 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP M 26 *Except* 8-10: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

REACTIONS.	(size)
Max Horz	2=190(LC 11)
Max Uplift	8=-264(LC 13), 2=-298(LC 12)
Max Grav	8=1358(LC 20), 2=1438(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-1943/380, 4-5=-1957/534, 5-6=-1923/540, 6-8=-1904/382
BOT CHORD	2-11=-343/1652, 9-11=-145/990, 8-9=-237/1503
WEBS	5-9=-351/1124, 5-11=-347/1176

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-11-0, Exterior(2R) 11-11-0 to 14-11-0, Interior(1) 14-11-0 to 23-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=264, 2=298.
  - 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:	1-5=-54, 5-8=-54, 11-18=-20, 9-11=-80(F=-60), 9-12=-20



Phillip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
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Date: August 24, 2021

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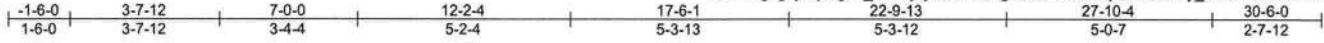
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Job 2857394	Truss T03	Truss Type Half Hip Girder	Qty 1	Ply 1	REED - STEPHAN RES.	T25127995
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:32 2021 Page 1

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Scale = 1:53.8

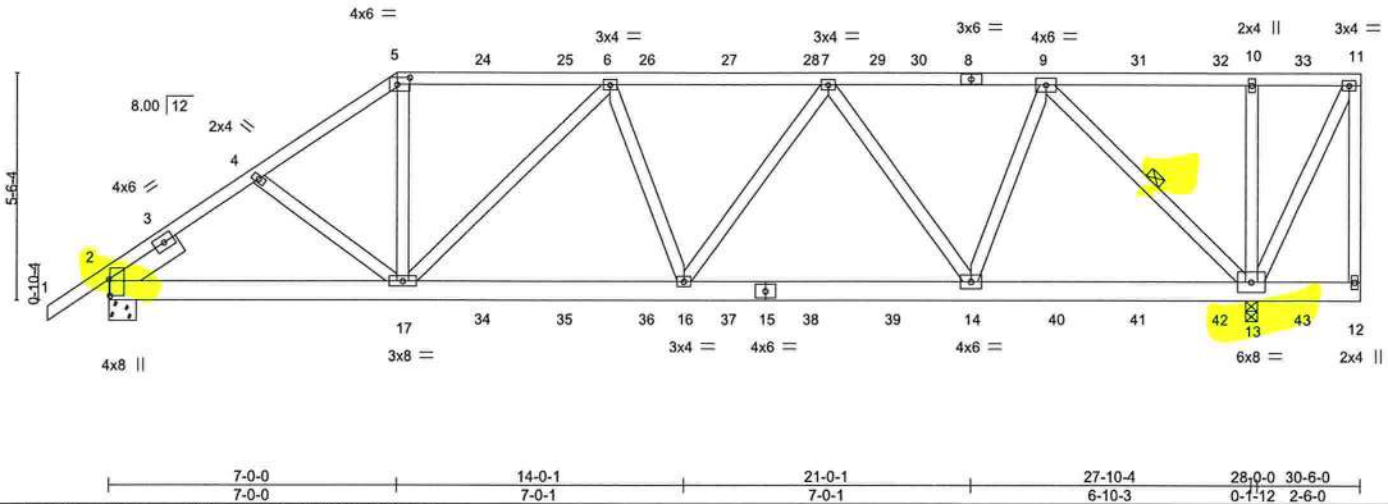


Plate Offsets (X,Y)-- [2:0-4-13,0-0-5], [5:0-3-12,0-2-0]

LOADING (psf)	SPACING-	CSi.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.82	Vert(LL) 0.16 16-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.92	Vert(CT) -0.25 16-17 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 13 n/a n/a		
	Code FBC2020/TPI2014			Weight: 215 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 1-5: 2x4 SP M 31  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-8

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 9-13

**REACTIONS.** (size) 2=0-8-0, 13=0-3-8  
 Max Horz 2=191(LC 8)  
 Max Uplift 2=-806(LC 8), 13=-1102(LC 5)  
 Max Grav 2=1953(LC 1), 13=2472(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-2518/1110, 4-5=-2514/1140, 5-6=-2113/1007, 6-7=-2838/1290, 7-9=-2087/931  
 BOT CHORD 2-17=-962/1920, 16-17=-1267/2741, 14-16=-1168/2584, 13-14=-736/1628  
 WEBS 4-17=-225/312, 5-17=-466/1055, 6-17=-932/446, 6-16=-122/378, 7-16=-220/466,  
 7-14=-884/443, 9-14=-608/1382, 9-13=-2320/1048, 10-13=-297/160


- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=806, 13=1102.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 52 lb up at 7-0-0, 69 lb down and 50 lb up at 9-0-12, 69 lb down and 50 lb up at 11-0-12, 69 lb down and 50 lb up at 13-0-12, 69 lb down and 50 lb up at 15-0-12, 69 lb down and 50 lb up at 17-0-12, 69 lb down and 45 lb up at 19-0-12, 69 lb down and 50 lb up at 21-0-12, 69 lb down and 50 lb up at 23-0-12, 69 lb down and 50 lb up at 25-0-12, and 69 lb down and 50 lb up at 27-0-12, and 69 lb down and 50 lb up at 29-0-12 on top chord, and 369 lb down and 256 lb up at 7-0-0, 137 lb down and 88 lb up at 9-0-12, 137 lb down and 88 lb up at 11-0-12, 137 lb down and 88 lb up at 13-0-12, 137 lb down and 88 lb up at 15-0-12, 137 lb down and 88 lb up at 17-0-12, 137 lb down and 88 lb up at 19-0-12, 137 lb down and 88 lb up at 21-0-12, 137 lb down and 88 lb up at 23-0-12, 137 lb down and 88 lb up at 25-0-12, and 137 lb down and 88 lb up at 27-0-12, and 137 lb down and 88 lb up at 29-0-12 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).



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

**LOAD CASE(S) Standard**

**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Walkord, MD 20601



6904 Parke East Blvd.  
 Tampa, FL 33610

Job 2857394	Truss T03	Truss Type Half Hip Girder	Qty 1	Ply 1	REED - STEPHAN RES.  Job Reference (optional)	T25127995
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:32 2021 Page 2  
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**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-5=-54, 5-11=-54, 12-18=-20

Concentrated Loads (lb)

Vert: 5=-27(B) 8=-27(B) 17=-351(B) 14=-130(B) 9=-27(B) 24=-27(B) 25=-27(B) 26=-27(B) 27=-27(B) 28=-27(B) 30=-27(B) 31=-27(B) 32=-27(B) 33=-27(B) 34=-130(B) 35=-130(B) 36=-130(B) 37=-130(B) 38=-130(B) 39=-130(B) 40=-130(B) 41=-130(B) 42=-130(B) 43=-130(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



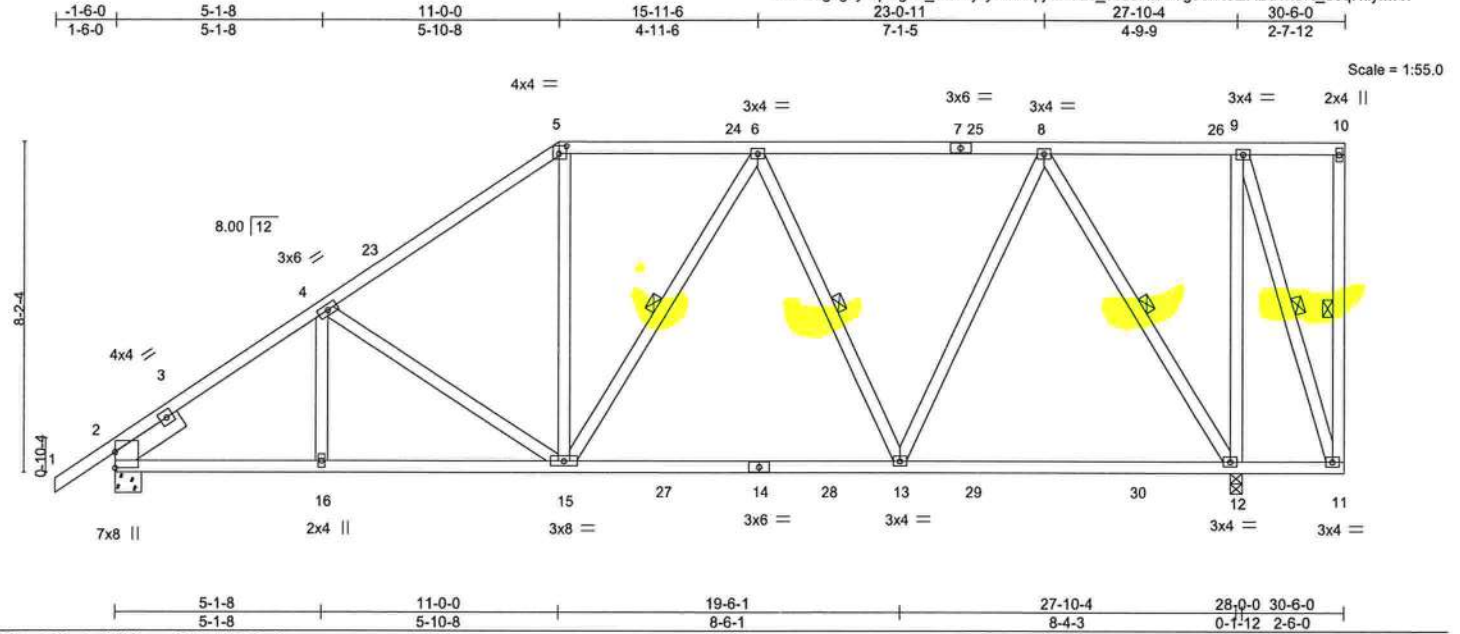
6904 Parke East Blvd.  
Tampa, FL 38610



Job 2857394	Truss T05	Truss Type Half Hip	Qty 1	Ply 1	REED - STEPHAN RES.	T25127997
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:34 2021 Page 1  
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.82	Vert(LL) -0.15 12-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.49	Vert(CT) -0.24 12-13 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 12 n/a n/a		
	Code FBC2020/TPI2014			Weight: 214 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 2-14; 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 10-11, 6-15, 6-13, 8-12, 9-11
SLIDER Left 2x6 SP No.2 1-11-8	

**REACTIONS.** (size) 2=0-8-0, 12=0-3-8  
 Max Horz 2=283(LC 12)  
 Max Uplift 2=-262(LC 12), 12=-319(LC 9)  
 Max Grav 2=1211(LC 2), 12=1376(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1403/296, 4-5=-1215/287, 5-6=-973/291, 6-8=-856/194  
 BOT CHORD 2-16=-425/1107, 15-16=-425/1107, 13-15=-277/978, 12-13=-140/566  
 WEBS 5-15=-31/418, 6-13=-353/202, 8-13=-143/706, 8-12=-1088/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-10, Interior(1) 1-6-10 to 11-0-0, Exterior(2R) 11-0-0 to 15-3-12, Interior(1) 15-3-12 to 30-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=262, 12=319.

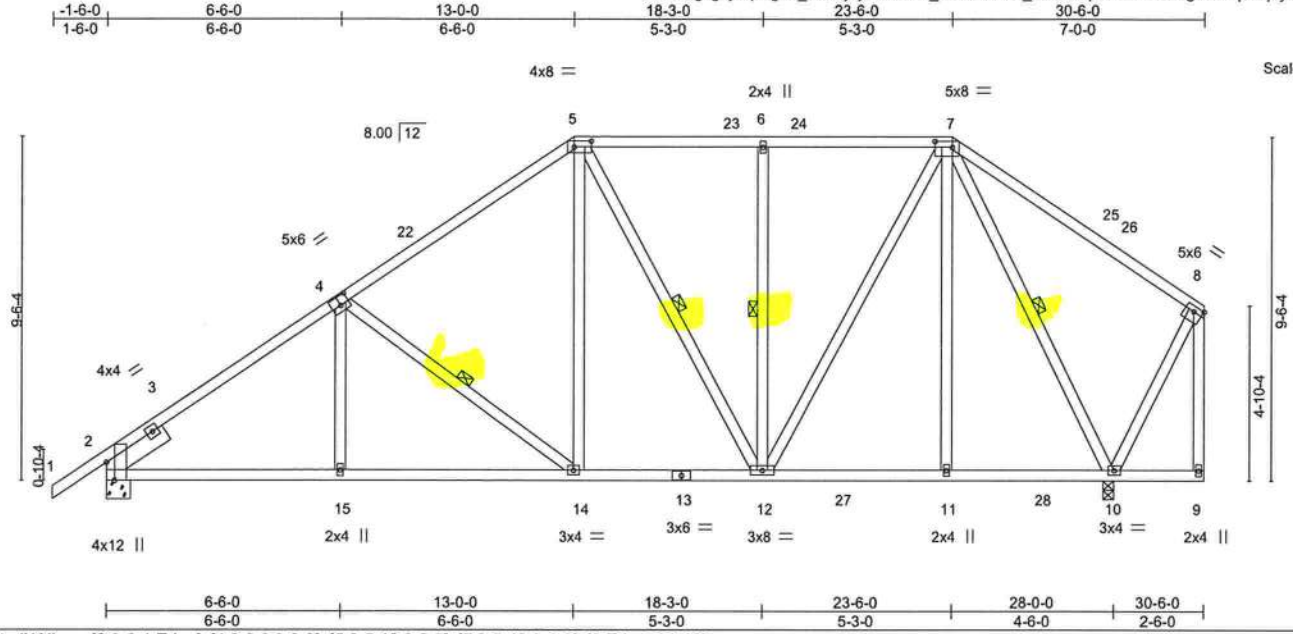


Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

Job 2857394	Truss T06	Truss Type Hip	Qty 1	Ply 1	REED - STEPHAN RES.	T25127998
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:35 2021 Page 1  
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Scale = 1:61.5

Plate Offsets (X,Y)--	[2:0-6-1,Edge], [4:0-3-0,0-3-0], [5:0-5-12,0-2-0], [7:0-5-12,0-2-0], [8:Edge,0-1-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 1.00	Vert(LL)	-0.14 14-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.25 14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	-0.05 2	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 222 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 1-11-8

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
WEBS 1 Row at midpt 4-14, 5-12, 6-12, 7-10

**REACTIONS.** (size) 2=0-8-0, 10=0-3-8  
Max Horz 2=239(LC 12)  
Max Uplift 2=-260(LC 12), 10=-230(LC 13)  
Max Grav 2=1222(LC 19), 10=1378(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1426/295, 4-5=-1115/278, 5-6=-793/239, 6-7=-793/239  
BOT CHORD 2-15=-365/1182, 14-15=-365/1185, 12-14=-200/869, 11-12=-78/477, 10-11=-78/474  
WEBS 4-14=-406/205, 5-14=-85/502, 6-12=-306/162, 7-12=-176/660, 7-11=0/282,  
7-10=-1211/190

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-10, Interior(1) 1-6-10 to 13-0-0, Exterior(2R) 13-0-0 to 17-3-12, Interior(1) 17-3-12 to 23-6-0, Exterior(2R) 23-6-0 to 27-9-12, Interior(1) 27-9-12 to 30-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 10=230.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

August 24,2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 BEFORE USE.**  
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**MiTek**  
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2857394	Truss T07	Truss Type Hip	Qty 1	Ply 1	REED - STEPHAN RES.	T25127999
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:36 2021 Page 1  
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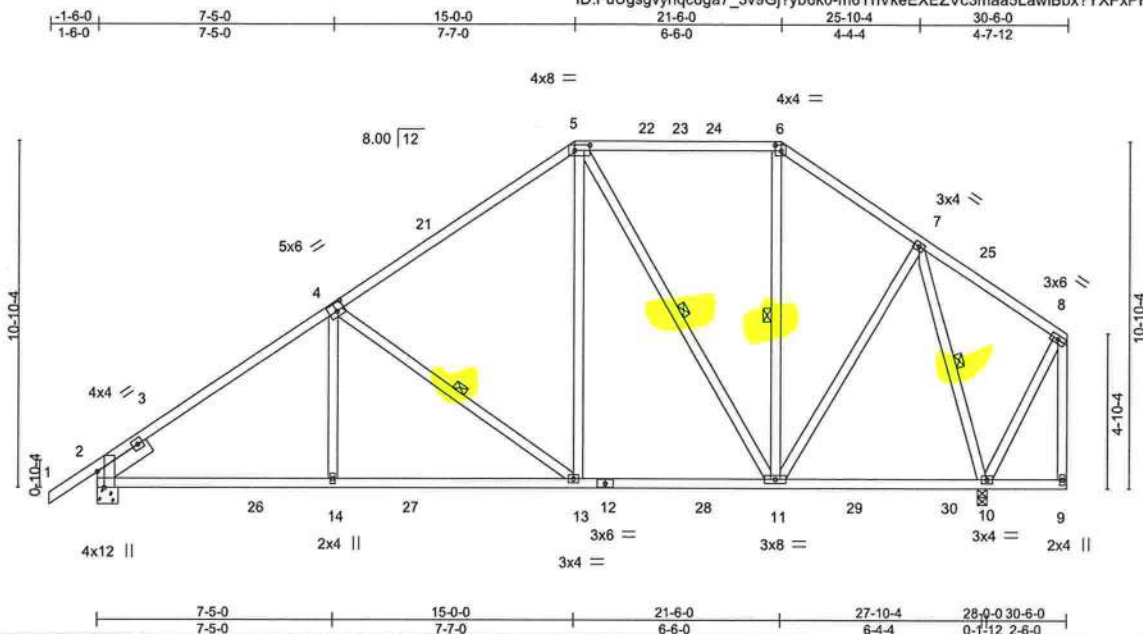


Plate Offsets (X,Y)-- [2:0-6-1,Edge], [4:0-3-0,0-3-0], [5:0-5-12,0-2-0], [6:0-2-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.73	Vert(LL) -0.16	13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.95	Vert(CT) -0.29	13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.39	Horz(CT) -0.05	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 213 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-13, 5-11, 6-11, 7-10
SLIDER Left 2x6 SP No.2 1-11-8	

**REACTIONS.** (size) 2=0-8-0, 10=0-3-8  
 Max Horz 2=259(LC 12)  
 Max Uplift 2=-252(LC 12), 10=-224(LC 13)  
 Max Grav 2=1291(LC 19), 10=1383(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1498/283, 4-5=-1027/254, 5-6=-555/209, 6-7=-722/208  
 BOT CHORD 2-14=-365/1282, 13-14=-365/1280, 11-13=-160/813, 10-11=-44/266  
 WEBS 4-14=0/346, 4-13=-585/254, 5-13=-105/646, 5-11=-512/164, 7-11=-102/566, 7-10=-1125/219

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-6-0 to 1-6-10, Interior(1) 1-6-10 to 15-0-0, Exterior(2R) 15-0-0 to 19-3-12, Interior(1) 19-3-12 to 21-6-0, Exterior(2R) 21-6-0 to 25-10-4, Interior(1) 25-10-4 to 30-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 10=224.

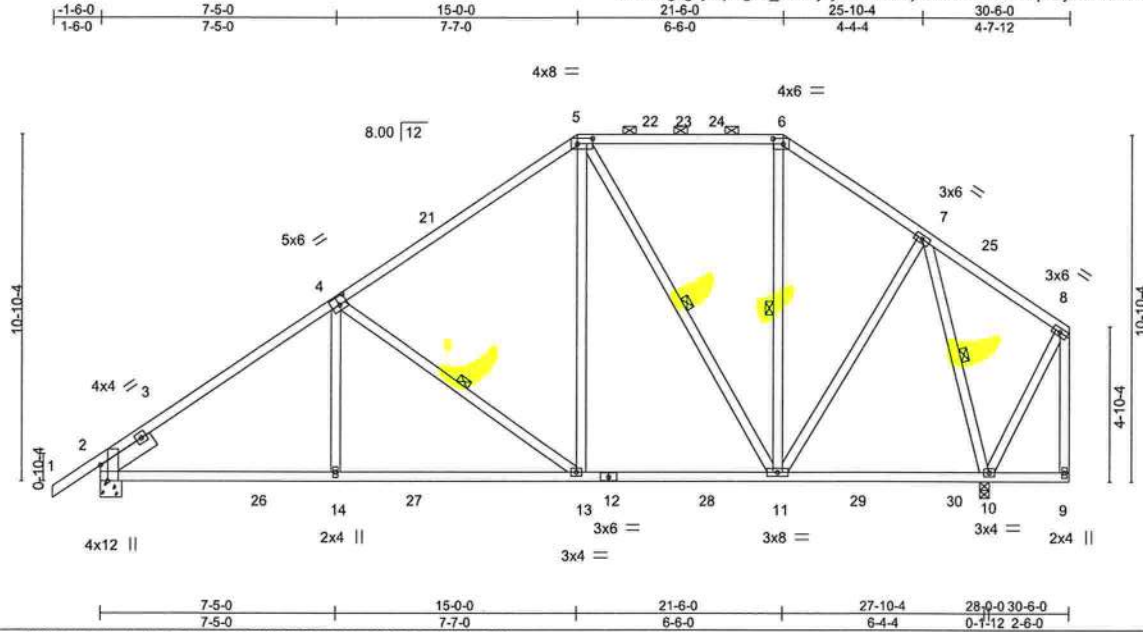


Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

Job 2857394	Truss T08	Truss Type Piggyback Base	Qty 3	Ply 1	REED - STEPHAN RES.	T25128000
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:37 2021 Page 1  
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Scale = 1:69.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	-0.16 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.29 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	-0.05 2	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 213 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-13, 5-11, 6-11, 7-10
SLIDER Left 2x6 SP No.2 1-11-8	

**REACTIONS.** (size) 2=0-8-0, 10=0-3-8  
 Max Horz 2=259(LC 12)  
 Max Uplift 2=-252(LC 12), 10=-224(LC 13)  
 Max Grav 2=1291(LC 19), 10=1385(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1498/283, 4-5=-1027/254, 5-6=-555/209, 6-7=-723/207  
 BOT CHORD 2-14=-365/1282, 13-14=-365/1280, 11-13=-160/813, 10-11=-41/252  
 WEBS 4-14=0/346, 4-13=-585/254, 5-13=-105/646, 5-11=-512/164, 7-11=-102/576, 7-10=-1125/220

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-10, Interior(1) 1-6-10 to 15-0-0, Exterior(2R) 15-0-0 to 19-3-12, Interior(1) 19-3-12 to 21-6-0, Exterior(2R) 21-6-0 to 25-11-13, Interior(1) 25-11-13 to 30-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 10=224.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24,2021



Job 2857394	Truss T09	Truss Type Roof Special Girder	Qty 1	Ply 1	REED - STEPHAN RES.  Job Reference (optional)	T25128001
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:39 2021 Page 2  
ID:FuUgsgvyhqc6ga7\_3v9Gj7yb6k0-AhDp8lg7q9x4TWU9GDvHYOpB6CfBcAWjFRY2zwykwvg

**LOAD CASE(S) Standard**

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 5-8=-54, 8-11=-54, 19-20=-20

Concentrated Loads (lb)

Vert: 4=-27(F) 8=-86(F) 17=-130(F) 16=-351(F) 7=-38(F) 12=-52(F) 26=-27(F) 27=-27(F) 28=-27(F) 29=-27(F) 30=-27(F) 31=-27(F) 32=-38(F) 33=-38(F) 34=-130(F)  
35=-130(F) 36=-130(F) 37=-130(F) 38=-130(F) 39=-25(F) 40=-25(F) 41=-25(F)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

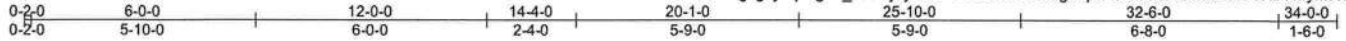


6904 Parke East Blvd.  
Tampa, FL 36610

Job 2857394	Truss T10	Truss Type Roof Special	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25128002
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:40 2021 Page 1  
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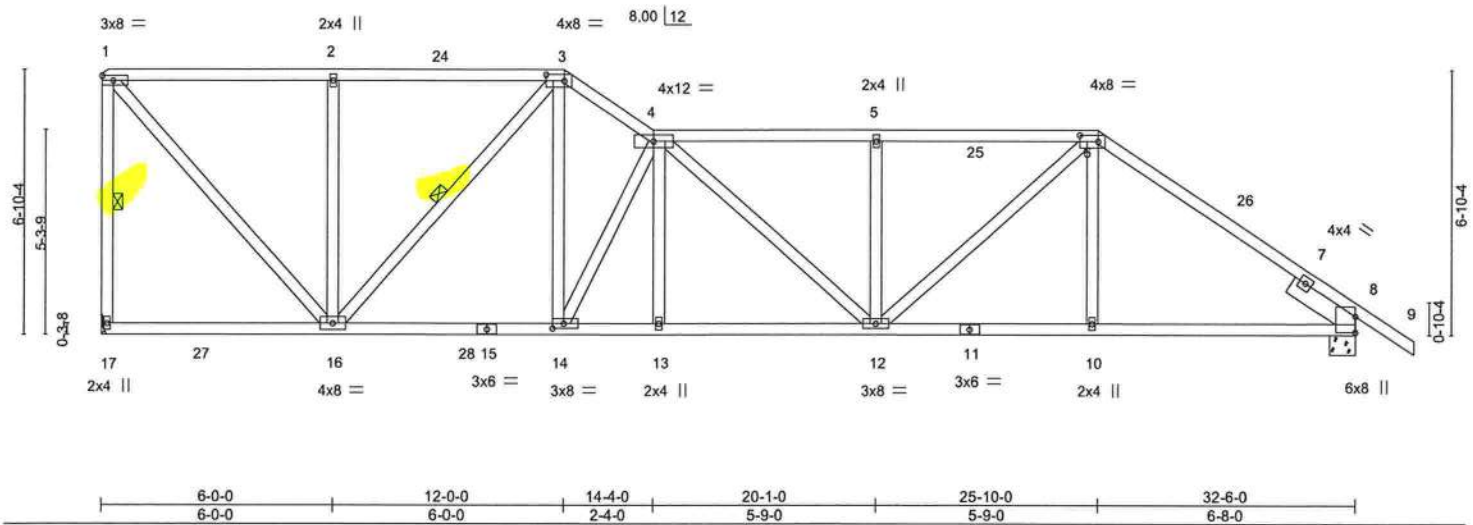


Plate Offsets (X,Y)--	[3:0-5-12,0-2-0], [6:0-5-12,0-2-0], [8:0-5-1,0-0-1], [14:0-3-8,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL)	-0.17 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 1.00	Vert(CT)	-0.30 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT)	0.11 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 210 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2 \*Except\*  
6-9: 2x4 SP M 31  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Right 2x6 SP No.2 1-11-8

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 8-10.  
WEBS 1 Row at midpt 3-16, 1-17

**REACTIONS.** (size) 17=Mechanical, 8=0-8-0  
Max Horz 17=-237(LC 13)  
Max Uplift 17=-245(LC 9), 8=-304(LC 13)  
Max Grav 17=1322(LC 2), 8=1373(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-993/184, 2-3=-993/184, 3-4=-1784/334, 4-5=-1979/441, 5-6=-1979/441,  
6-8=-1660/353, 1-17=-1207/258  
BOT CHORD 14-16=-235/1497, 13-14=-318/2046, 12-13=-317/2050, 10-12=-158/1289, 8-10=-159/1286  
WEBS 1-16=-274/1474, 2-16=-372/182, 3-16=-747/204, 3-14=-276/1350, 4-14=-1307/334,  
5-12=-373/185, 6-12=-234/915

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-12, Interior(1) 3-4-12 to 12-0-0, Exterior(2E) 12-0-0 to 14-4-0, Interior(1) 14-4-0 to 25-10-0, Exterior(2R) 25-10-0 to 29-1-0, Interior(1) 29-1-0 to 34-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=245, 8=304.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

August 24,2021

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Job 2857394	Truss T12	Truss Type Hip	Qty 1	Ply 1	REED - STEPHAN RES.	T25128004
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:42 2021 Page 1  
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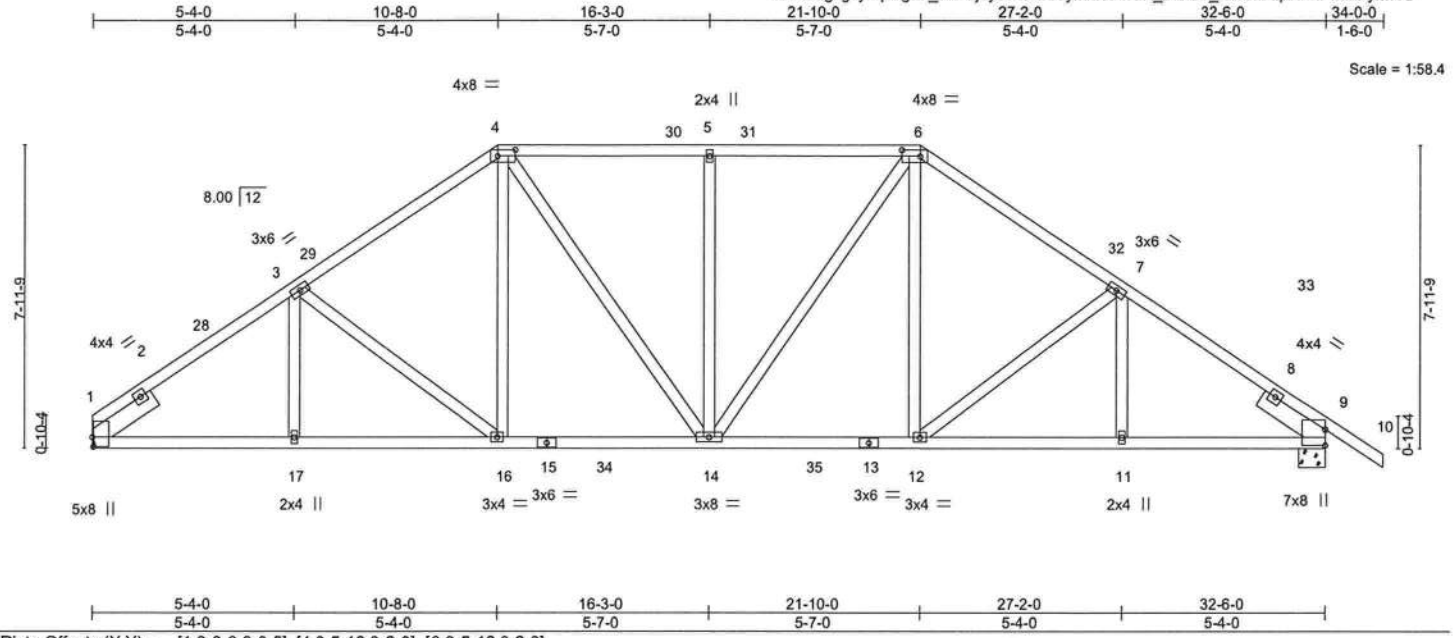


Plate Offsets (X,Y)-- [1:0-3-0,0-0-5], [4:0-5-12,0-2-0], [6:0-5-12,0-2-0]

LOADING (psf)	SPACING-	CS.I.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.51	Vert(LL) -0.11 11-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.38	Vert(CT) -0.20 11-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.09 9 n/a n/a		
	Code FBC2020/TPI2014			Weight: 206 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 6-10: 2x4 SP M 31  
 BOT CHORD 2x4 SP M 31 \*Except\*  
 13-15: 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=Mechanical, 9=0-8-0  
 Max Horz 1=-172(LC 10)  
 Max Uplift 1=-250(LC 12), 9=-287(LC 13)  
 Max Grav 1=1308(LC 2), 9=1406(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-1795/358, 3-4=-1571/344, 4-5=-1416/320, 5-6=-1416/320, 6-7=-1526/334,  
 7-9=-1695/331  
 BOT CHORD 1-17=-315/1473, 16-17=-315/1473, 14-16=-197/1261, 12-14=-111/1241, 11-12=-165/1318,  
 9-11=-165/1318  
 WEBS 3-16=-318/170, 4-16=-69/442, 4-14=-157/338, 5-14=-335/170, 6-14=-158/365,  
 6-12=-57/384

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-3-0, Interior(1) 3-3-0 to 10-8-0, Exterior(2R) 10-8-0 to 15-3-3, Interior(1) 15-3-3 to 21-10-0, Exterior(2R) 21-10-0 to 26-5-2, Interior(1) 26-5-2 to 34-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=250, 9=287.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

Job 2857394	Truss T13	Truss Type Hip	Qty 1	Ply 1	REED - STEPHAN RES.	T25128005
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:43 2021 Page 1  
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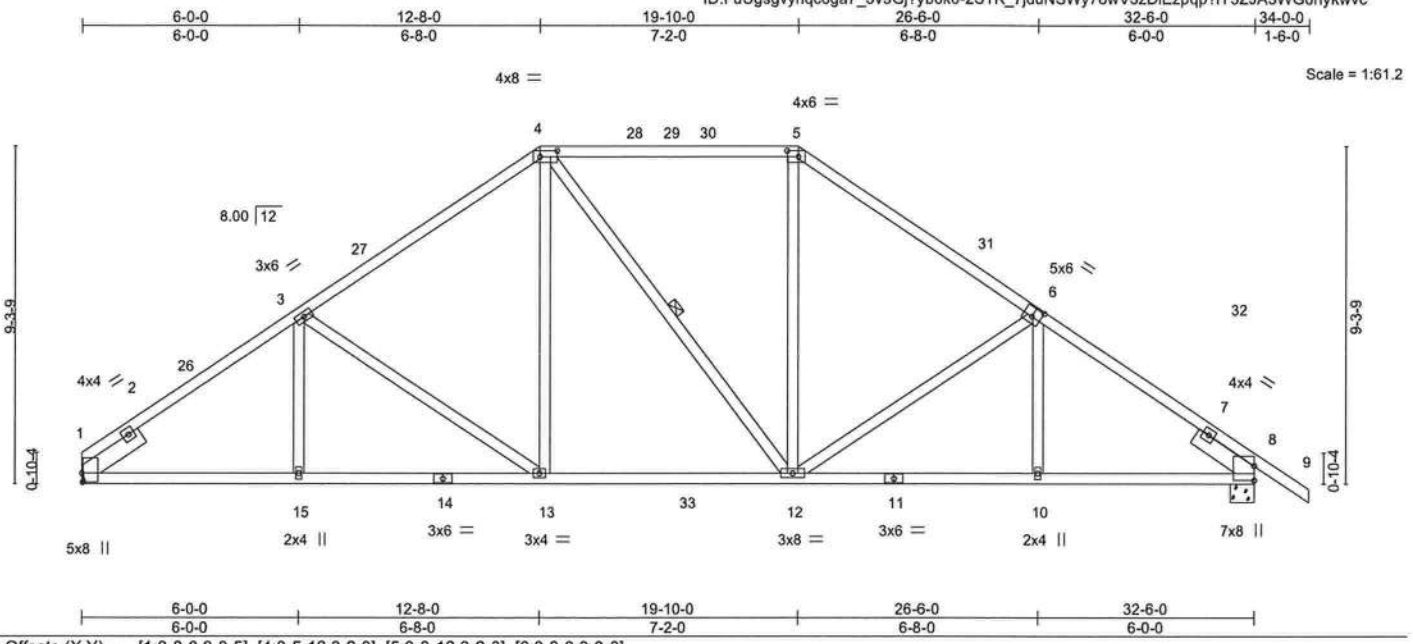


Plate Offsets (X,Y)-- [1:0-3-0,0-0-5], [4:0-5-12,0-2-0], [5:0-3-12,0-2-0], [6:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.65	Vert(LL) -0.14 10-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.56	Vert(CT) -0.26 10-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.10 8 n/a n/a		
	Code FBC2020/TPI2014			Weight: 195 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 6-9: 2x4 SP M 31  
 BOT CHORD 2x4 SP M 31 \*Except\*  
 11-14: 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-12

**REACTIONS.** (size) 1=Mechanical, 8=0-8-0  
 Max Horz 1=-201(LC 10)  
 Max Uplift 1=-244(LC 12), 8=-282(LC 13)  
 Max Grav 1=1300(LC 2), 8=1392(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-1791/352, 3-4=-1466/319, 4-5=-1141/319, 5-6=-1422/314, 6-8=-1701/329  
 BOT CHORD 1-15=-324/1537, 13-15=-324/1537, 12-13=-145/1177, 10-12=-159/1329, 8-10=-159/1331  
 WEBS 3-13=-442/217, 4-13=-78/544, 5-12=-68/481, 6-12=-341/196

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-3-0, Interior(1) 3-3-0 to 12-8-0, Exterior(2R) 12-8-0 to 17-3-3, Interior(1) 17-3-3 to 19-10-0, Exterior(2R) 19-10-0 to 24-5-2, Interior(1) 24-5-2 to 34-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=244, 8=282.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

Job 2857394	Truss T14	Truss Type Hip	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25128006
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:44 2021 Page 1  
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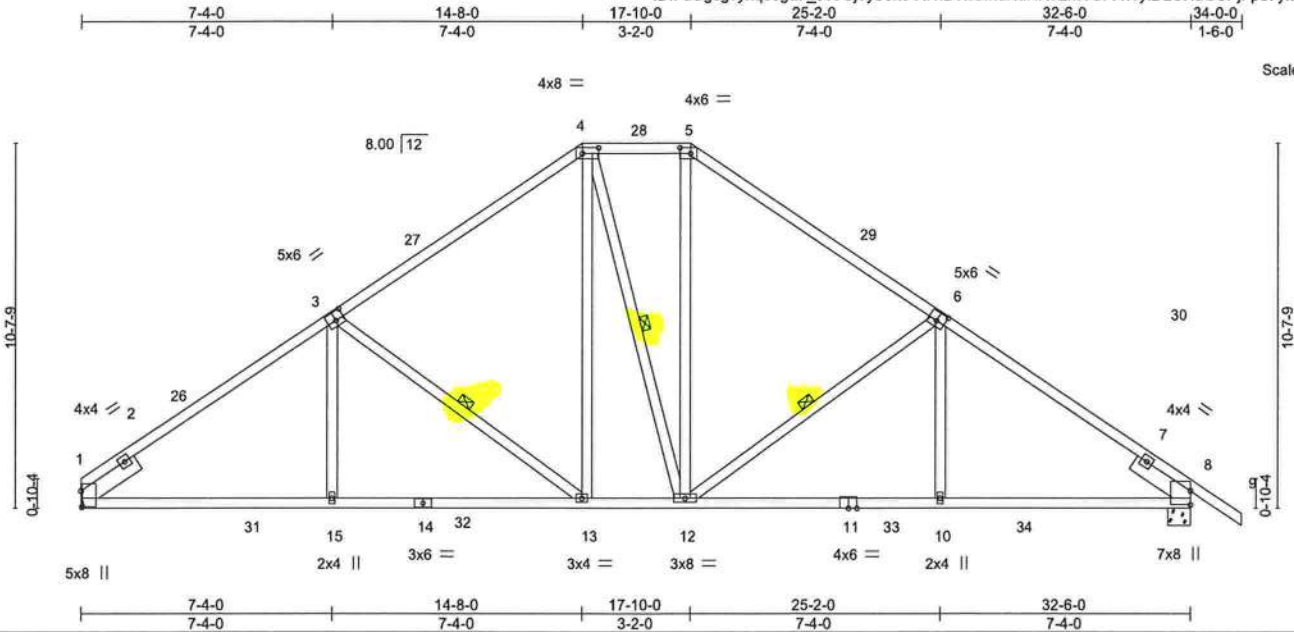


Plate Offsets (X,Y)-- [1:0-5-9,0-0-5], [3:0-3-0,0-3-0], [4:0-5-12,0-2-0], [5:0-3-12,0-2-0], [6:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	-0.20 10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.35 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.11 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 205 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 \*Except\*  
6-9: 2x4 SP M 31  
BOT CHORD 2x4 SP M 31 \*Except\*  
11-14: 2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 3-13, 4-12, 6-12

**REACTIONS.**

(size) 1=Mechanical, 8=0-8-0  
Max Horz 1=-231(LC 10)  
Max Uplift 1=-238(LC 12), 8=-276(LC 13)  
Max Grav 1=1364(LC 19), 8=1470(LC 20)

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

TOP CHORD 1-3=-1843/337, 3-4=-1346/304, 4-5=-1046/308, 5-6=-1341/306, 6-8=-1772/319  
BOT CHORD 1-15=-314/1622, 13-15=-315/1620, 12-13=-105/1118, 10-12=-144/1387, 8-10=-144/1388  
WEBS 3-15=0/360, 3-13=-632/261, 4-13=-116/539, 5-12=-114/513, 6-12=-536/242, 6-10=0/327

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-3-0, Interior(1) 3-3-0 to 14-8-0, Exterior(2E) 14-8-0 to 17-10-0, Exterior(2R) 17-10-0 to 22-5-2, Interior(1) 22-5-2 to 34-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=238, 8=276.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: August 24, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2857394	Truss T15	Truss Type Piggyback Base	Qty 2	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25128007
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:45 2021 Page 1  
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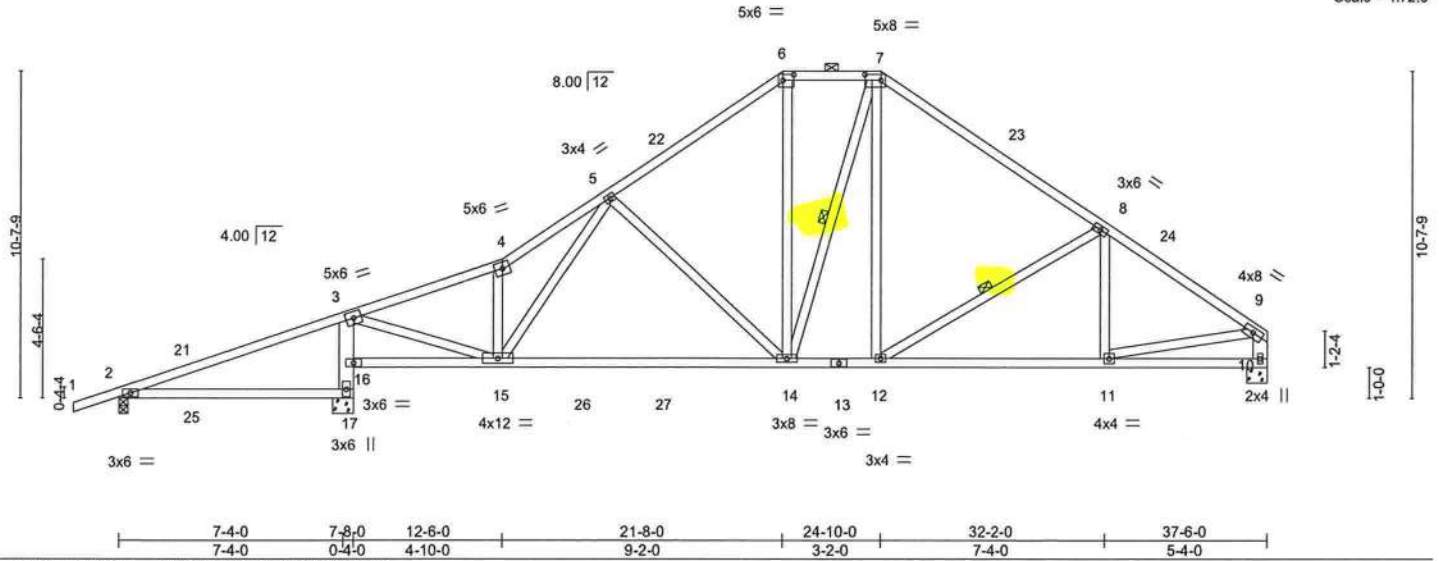


Plate Offsets (X,Y)--	[6:0-4-4,0-2-4], [7:0-6-4,0-2-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.66	Vert(LL) 0.18	17-20	>490	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(CT) -0.49	14-15	>725	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.03	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 228 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-8 max.); 6-7.
BOT CHORD 2x4 SP No.2 *Except* 3-17: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-9-2 oc bracing.
WEBS 2x4 SP No.3 *Except* 9-10: 2x6 SP No.2	WEBS 1 Row at midpt 7-14, 8-12

**REACTIONS.** (size) 2=0-3-8, 17=0-8-0, 10=0-8-0  
 Max Horz 2=247(LC 9)  
 Max Uplift 2=-205(LC 8), 17=-372(LC 12), 10=-201(LC 13)  
 Max Grav 2=280(LC 23), 17=1614(LC 2), 10=1183(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-172/271, 3-4=-1575/376, 4-5=-1787/497, 5-6=-1213/416, 6-7=-951/407, 7-8=-1198/411, 8-9=-1481/402, 9-10=-1115/314  
 BOT CHORD 16-17=-1472/422, 3-16=-1429/427, 15-16=-378/102, 14-15=-292/1283, 12-14=-124/918, 11-12=-278/1189  
 WEBS 3-15=-377/1872, 4-15=-614/221, 5-15=-72/459, 5-14=-438/227, 6-14=-134/509, 7-12=-85/330, 8-12=-414/215, 9-11=-255/1139

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-6-0 to 2-3-0, Interior(1) 2-3-0 to 21-8-0, Exterior(2E) 21-8-0 to 24-10-0, Exterior(2R) 24-10-0 to 28-7-0, Interior(1) 28-7-0 to 37-3-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=205, 17=372, 10=201.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

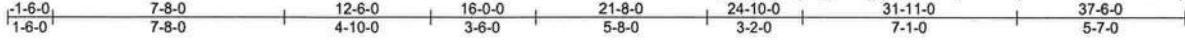


Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021



Job 2857394	Truss T16	Truss Type Piggyback Base	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25128008
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:47 2021 Page 1  
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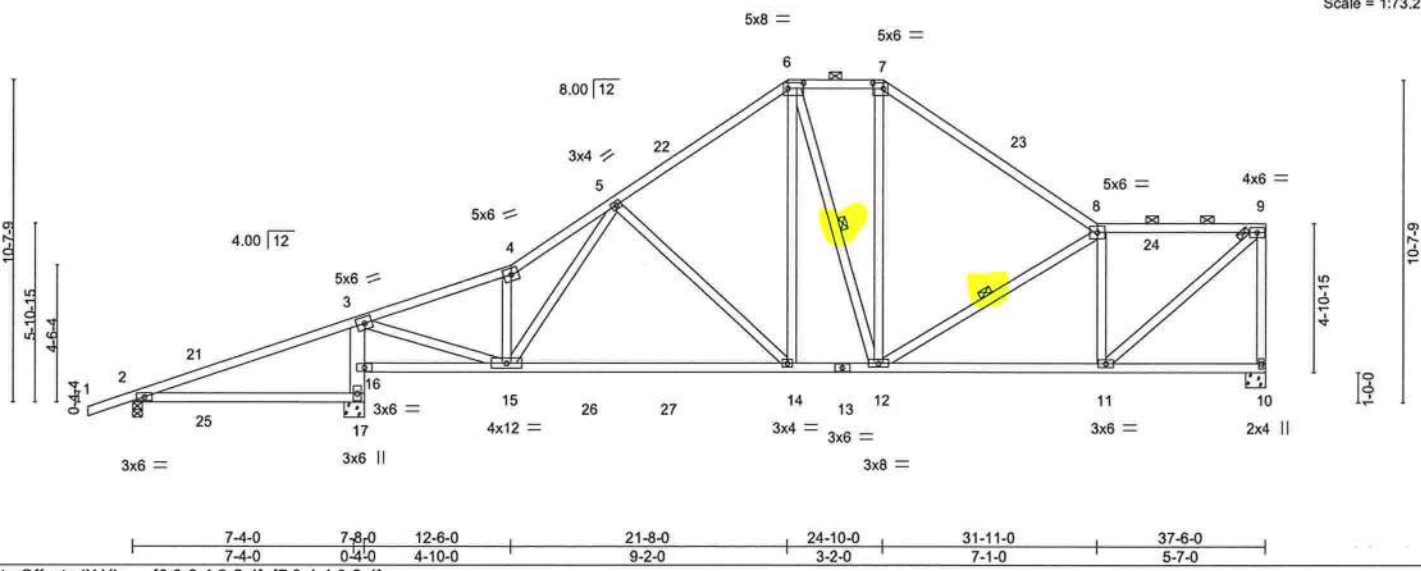


Plate Offsets (X,Y)-- [6:0-6-4,0-2-4], [7:0-4-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	Vert(LL)	0.18 17-20	>488	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.90	Vert(CT)	-0.51 14-15	>707	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.73	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2020/TPI2014						Weight: 234 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-11 max.): 6-7, 8-9.
BOT CHORD 2x4 SP No.2 *Except* 3-17; 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-8-4 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-12, 8-12

**REACTIONS.** (size) 10=0-8-0, 2=0-3-8, 17=0-8-0  
 Max Horz 2=276(LC 12)  
 Max Uplift 10=-210(LC 13), 2=-187(LC 8), 17=-389(LC 12)  
 Max Grav 10=1167(LC 2), 2=273(LC 23), 17=1629(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-234/280, 3-4=-1561/324, 4-5=-1771/437, 5-6=-1214/387, 6-7=-924/377,  
 7-8=-1190/377, 8-9=-1147/305, 9-10=-1097/322  
 BOT CHORD 16-17=-1487/451, 3-16=-1444/456, 15-16=-399/61, 14-15=-381/1260, 12-14=-229/954,  
 11-12=-314/1170  
 WEBS 3-15=-416/1905, 4-15=-609/204, 5-15=-46/444, 5-14=-435/212, 6-14=-103/585,  
 7-12=-57/412, 8-12=-318/140, 8-11=-768/309, 9-11=-398/1503

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-3-0, Interior(1) 2-3-0 to 21-8-0, Exterior(2E) 21-8-0 to 24-10-0, Exterior(2R) 24-10-0 to 28-7-0, Interior(1) 28-7-0 to 37-4-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=210, 2=187, 17=389.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

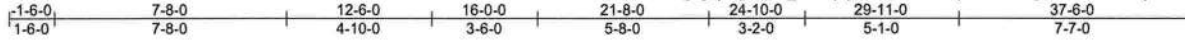
August 24,2021

Job 2857394	Truss T17	Truss Type Piggyback Base	Qty 1	Ply 1	REED - STEPHAN RES.	T25128009
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:48 2021 Page 1

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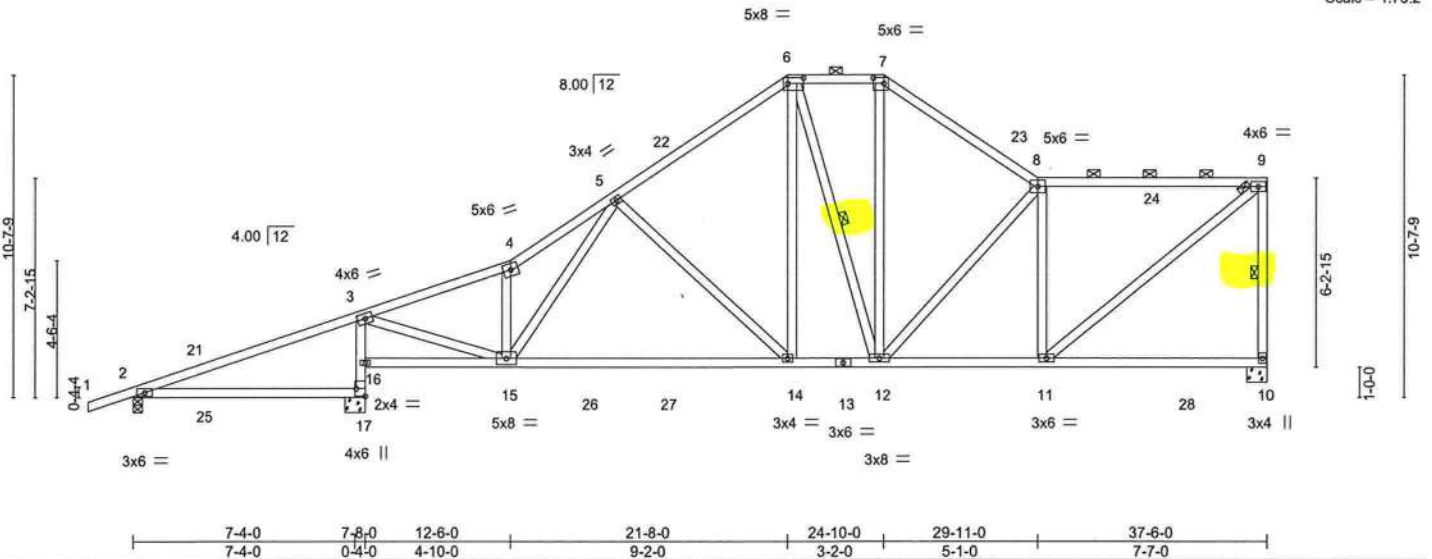


Plate Offsets (X,Y)-- [6:0-6-4,0-2-4], [7:0-4-4,0-2-4], [17:Edge,0-3-8]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.94	Vert(LL) 0.20	17-20	>444	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(CT) -0.50	14-15	>718	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.02	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 238 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-7, 8-9.
BOT CHORD 2x4 SP No.2 *Except* 3-17: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 3-10-14 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 9-10, 6-12

**REACTIONS.** (size) 10=0-8-0, 2=0-3-8, 17=0-8-0  
 Max Horz 2=302(LC 12)  
 Max Uplift 10=-217(LC 13), 2=-182(LC 8), 17=-393(LC 12)  
 Max Grav 10=1212(LC 2), 2=315(LC 25), 17=1574(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-260/151, 3-4=-1627/318, 4-5=-1844/427, 5-6=-1234/374, 6-7=-921/360,  
 7-8=-1167/381, 8-9=-1135/306, 9-10=-1066/337  
 BOT CHORD 16-17=-1434/445, 3-16=-1393/451, 14-15=-414/1284, 12-14=-261/971, 11-12=-313/1151  
 WEBS 3-15=-367/1729, 4-15=-620/192, 5-15=-42/490, 5-14=-455/213, 6-14=-96/640,  
 6-12=-253/69, 7-12=-104/471, 8-12=-372/124, 8-11=-677/294, 9-11=-386/1430

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-3-0, Interior(1) 2-3-0 to 21-8-0, Exterior(2E) 21-8-0 to 24-10-0, Exterior(2R) 24-10-0 to 28-7-0, Interior(1) 28-7-0 to 37-4-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=217, 2=182, 17=393.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

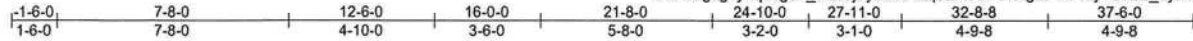


Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

Job 2857394	Truss T18	Truss Type Piggyback Base	Qty 1	Ply 1	REED - STEPHAN RES.	T25128010
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:49 2021 Page 1  
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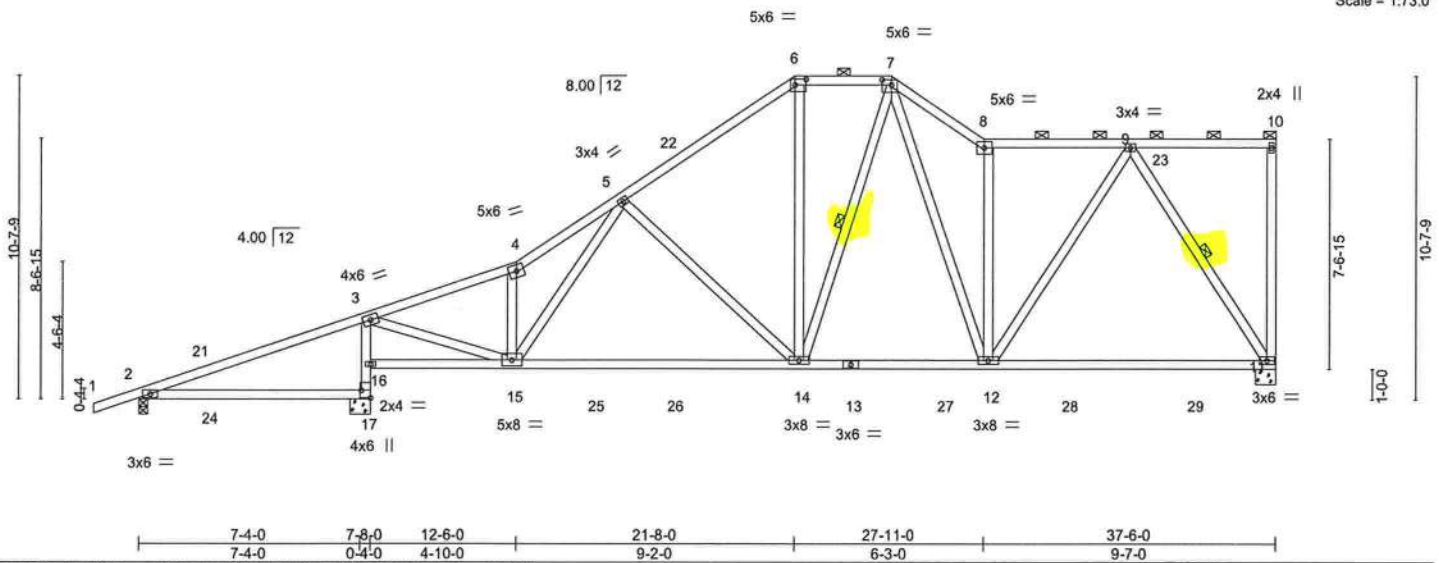


Plate Offsets (X,Y)--	[6:0-4-4,0-2-4], [7:0-3-12,0-2-0], [17:Edge,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.62	Vert(LL) 0.20	17-20	>444	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.93	Vert(CT) -0.52	14-15	>689	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.94	Horz(CT) 0.03	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-3 max.): 6-7, 8-10.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
3-17: 2x4 SP No.3, 11-13: 2x4 SP M 31	WEBS 1 Row at midpt 7-14, 9-11
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 11=0-8-0, 2=0-3-8, 17=0-8-0  
 Max Horz 2=329(LC 12)  
 Max Uplift 11=-225(LC 13), 2=-174(LC 8), 17=-395(LC 12)  
 Max Grav 11=1256(LC 2), 2=319(LC 25), 17=1594(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-280/134, 3-4=-1683/282, 4-5=-1909/382, 5-6=-1282/354, 6-7=-1009/355,  
 7-8=-1420/411, 8-9=-1133/296  
 BOT CHORD 16-17=-1454/447, 3-16=-1415/453, 14-15=-437/1324, 12-14=-270/972, 11-12=-193/653  
 WEBS 3-15=-368/1762, 4-15=-639/176, 5-15=-28/505, 5-14=-463/207, 6-14=-62/480,  
 7-12=-130/563, 8-12=-917/309, 9-12=-193/892, 9-11=-1182/359

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-3-0, Interior(1) 2-3-0 to 21-8-0, Exterior(2E) 21-8-0 to 27-11-0, Interior(1) 27-11-0 to 37-4-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=225, 2=174, 17=395.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



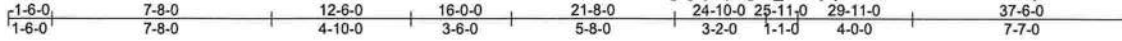
Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

<p><b>WARNING</b> - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.          Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 6904 Parke East Blvd. Tampa, FL 33610
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Job 2857394	Truss T19	Truss Type Piggyback Base	Qty 1	Ply 1	REED - STEPHAN RES.	T25128011
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:50 2021 Page 1  
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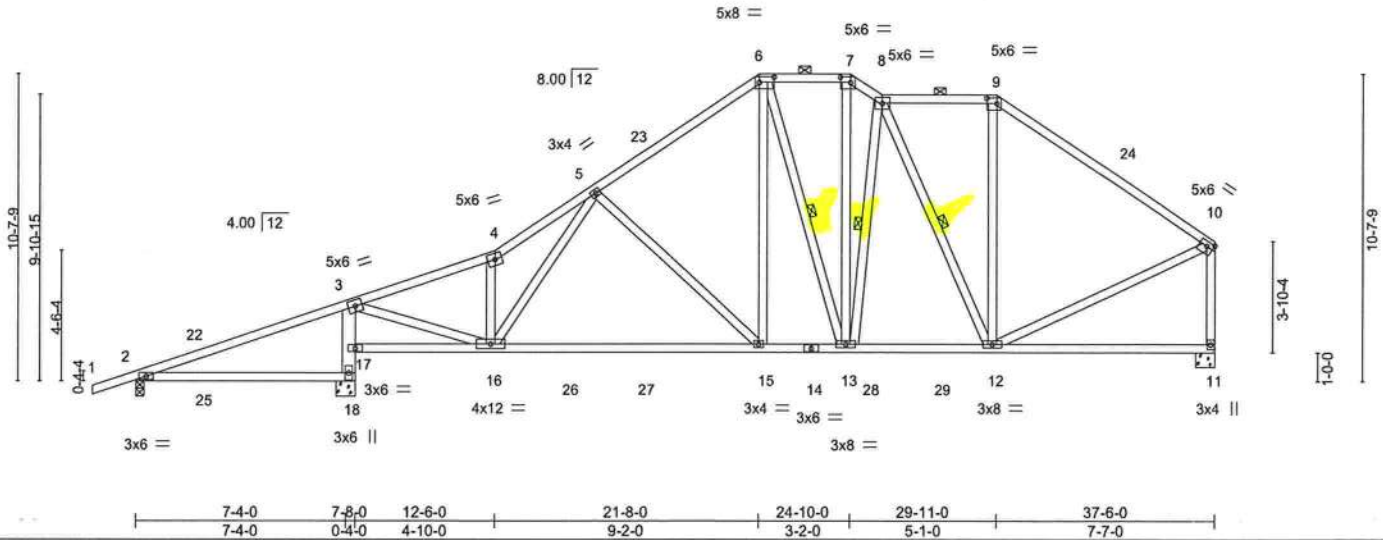


Plate Offsets (X,Y)--	[6:0-6-4,0-2-4], [7:0-4-4,0-2-4], [9:0-4-4,0-2-4], [10:0-2-12,0-2-0]
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LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.83	Vert(LL) 0.18	18-21	>489	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(CT) -0.49	15-16	>728	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.73	Horz(CT) 0.03	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 255 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7, 8-9.
BOT CHORD 2x4 SP No.2 *Except* 3-18: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-8-8 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-13, 8-13, 8-12

**REACTIONS.** (size) 2=0-3-8, 18=0-8-0, 11=0-8-0  
 Max Horz 2=257(LC 12)  
 Max Uplift 2=-193(LC 8), 18=-385(LC 12), 11=-207(LC 13)  
 Max Grav 2=278(LC 23), 18=1634(LC 2), 11=1192(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-215/267, 3-4=-1595/357, 4-5=-1811/473, 5-6=-1243/420, 6-7=-934/404,  
 7-8=-1102/460, 8-9=-818/349, 9-10=-1070/338, 10-11=-1074/349  
 BOT CHORD 17-18=-1492/454, 3-17=-1448/458, 16-17=-365/65, 15-16=-373/1291, 13-15=-217/984,  
 12-13=-233/971  
 WEBS 3-16=-423/1905, 4-16=-621/210, 5-16=-55/450, 5-15=-437/217, 6-15=-98/624,  
 7-13=-190/499, 8-13=-324/179, 8-12=-386/130, 9-12=-34/339, 10-12=-172/847

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-6-0 to 2-3-0, Interior(1) 2-3-0 to 21-8-0, Exterior(2E) 21-8-0 to 25-11-0, Interior(1) 25-11-0 to 29-11-0, Exterior(2R) 29-11-0 to 33-8-0, Interior(1) 33-8-0 to 37-4-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=193, 18=385, 11=207.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

August 24,2021

Job 2857394	Truss T20	Truss Type Hip	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25128012
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MITek Industries, Inc. Mon Aug 23 15:05:51 2021 Page 1  
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5x8 =

Scale = 1:75.1

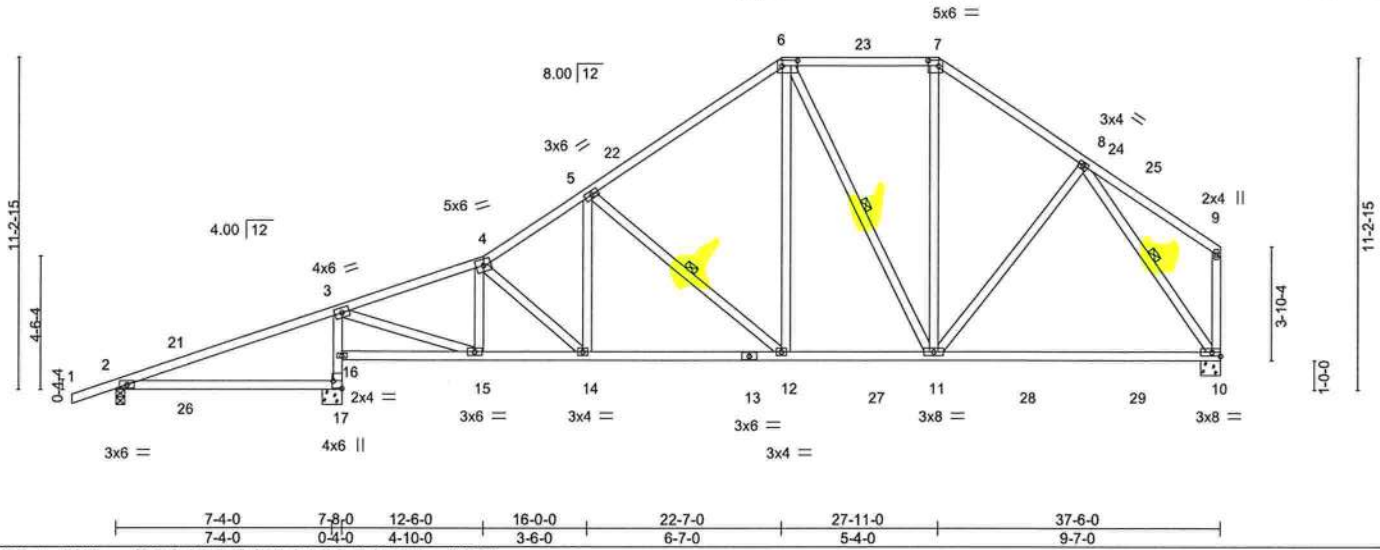


Plate Offsets (X,Y)-- [6:0-6-4,0-2-4], [7:0-4-4,0-2-4], [17:Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.54	Vert(LL) 0.20 17-20 >446 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.61	Vert(CT) -0.48 10-11 >745 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 10 n/a n/a		
	Code FBC2020/TPI2014			Weight: 236 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 3-17: 2x4 SP No.3, 10-13: 2x4 SP M 31  
 WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-3-1 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 4-0-2 oc bracing.  
 WEBS 1 Row at midpt 5-12, 6-11, 8-10

**REACTIONS.**

(size) 2=0-3-8, 17=0-8-0, 10=0-8-0  
 Max Horz 2=266(LC 12)  
 Max Uplift 2=-202(LC 8), 17=-407(LC 12), 10=-202(LC 13)  
 Max Grav 2=319(LC 25), 17=1563(LC 2), 10=1238(LC 2)

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

TOP CHORD 3-4=-1573/393, 4-5=-1606/455, 5-6=-1191/417, 6-7=-835/370, 7-8=-1065/397  
 BOT CHORD 16-17=-1422/438, 3-16=-1327/451, 14-15=-427/1465, 12-14=-393/1368, 11-12=-207/928, 10-11=-190/686  
 WEBS 3-15=-366/1607, 4-15=-388/136, 5-14=-12/333, 5-12=-580/244, 6-12=-126/558, 6-11=-278/126, 7-11=-85/378, 8-11=-73/295, 8-10=-1134/335

**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; BCCL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-3-0, Interior(1) 2-3-0 to 22-7-0, Exterior(2E) 22-7-0 to 27-11-0, Exterior(2R) 27-11-0 to 33-2-10, Interior(1) 33-2-10 to 37-4-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=202, 17=407, 10=202.



Philip J. O'Regan PE No.58126  
 MITek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

August 24,2021

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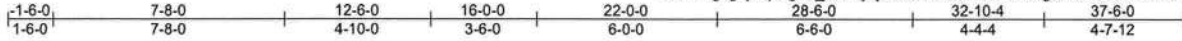


Job 2857394	Truss T21	Truss Type Piggyback Base	Qty 3	Ply 1	REED - STEPHAN RES.	T25128013
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

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ID:FuUgsgvyhqc6ga7\_3v9Gj?yb6k0-mN464YrvXSI59gZr499Z6LOX5rM0ua9nTdxnT6ykwvS



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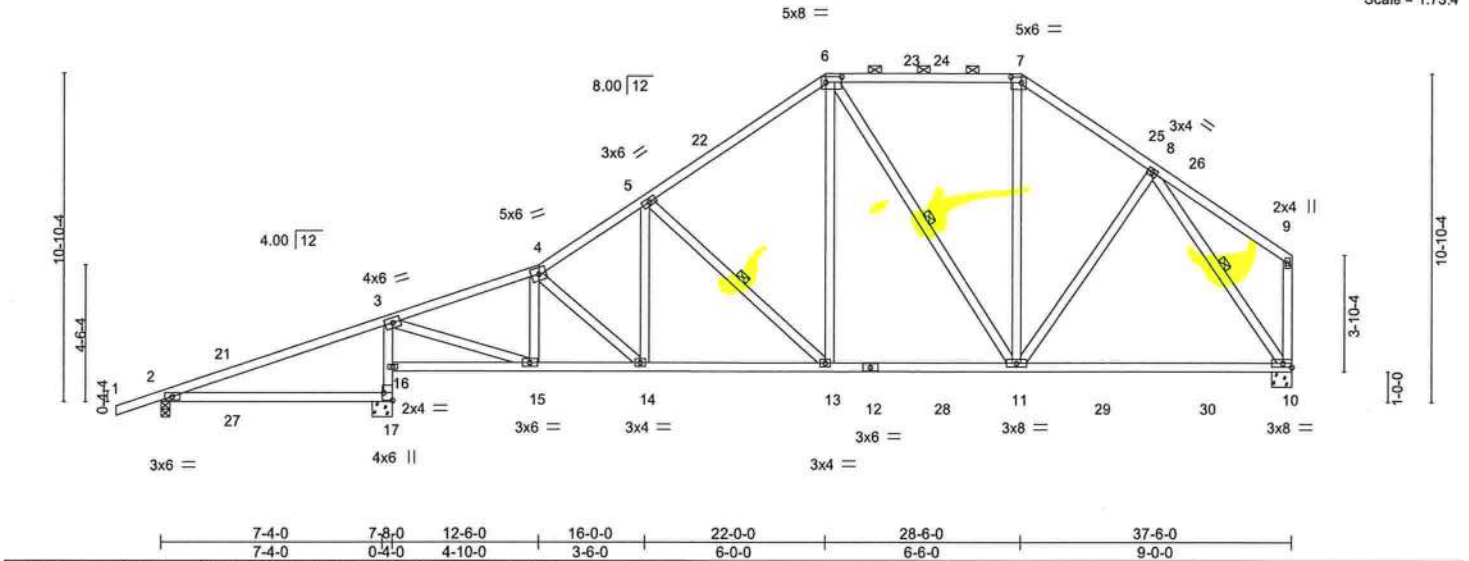


Plate Offsets (X,Y)--	[6:0-6-4,0-2-4], [7:0-4-4,0-2-4], [17:Edge,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL)	0.20 17-20	>446	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.92	Vert(CT)	-0.48 10-11	>744	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 234 lb	FT = 20%

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

**REACTIONS.** (size) 2=0-3-8, 17=0-8-0, 10=0-8-0  
 Max Horz 2=260(LC 12)  
 Max Uplift 2=-199(LC 8), 17=-384(LC 12), 10=-172(LC 13)  
 Max Grav 2=318(LC 25), 17=1568(LC 2), 10=1240(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-1581/394, 4-5=-1606/445, 5-6=-1231/411, 6-7=-844/358, 7-8=-1064/379  
 BOT CHORD 16-17=-1426/422, 3-16=-1334/435, 14-15=-405/1472, 13-14=-362/1345, 11-13=-202/968, 10-11=-177/691  
 WEBS 3-15=-344/1618, 4-15=-385/131, 5-13=-537/217, 6-13=-113/586, 6-11=-288/107, 7-11=-62/361, 8-11=-82/319, 8-10=-1147/313, 5-14=-19/319

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-3-0, Interior(1) 2-3-0 to 22-0-0, Exterior(2R) 22-0-0 to 25-9-0, Interior(1) 25-9-0 to 28-6-0, Exterior(2R) 28-6-0 to 32-3-0, Interior(1) 32-3-0 to 37-4-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=199, 17=384, 10=172.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
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Job 2857394	Truss T23	Truss Type Hip Girder	Qty 1	Ply 1	REED - STEPHAN RES.	T25128016
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:57 2021 Page 1

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Job Reference (optional)



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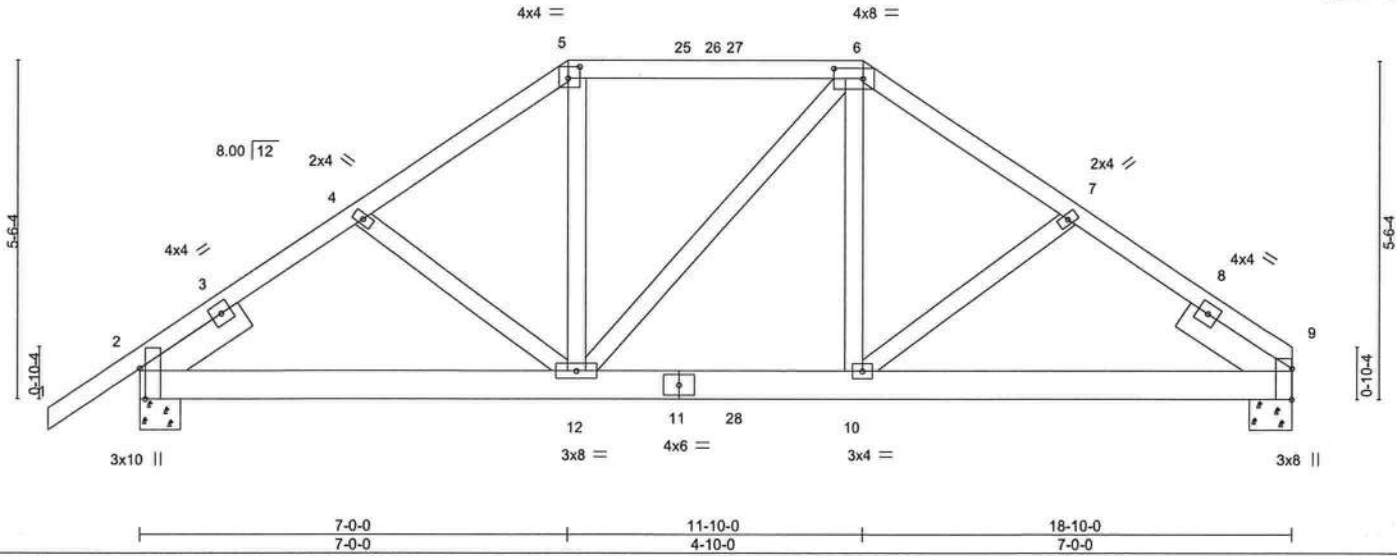


Plate Offsets (X,Y)-- [2:0-6-1,Edge], [5:0-2-4,0-2-4], [6:0-5-12,0-2-0], [9:0-6-1,Edge]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.77	Vert(LL)	0.08 10-12	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.52	Vert(CT)	-0.12 10-12	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.23	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code FBC2020/TPI2014						Weight: 125 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 9-2-9 oc bracing.

**REACTIONS.**

(size) 9=0-8-0, 2=0-8-0  
 Max Horz 2=118(LC 5)  
 Max Uplift 9=-536(LC 9), 2=-562(LC 8)  
 Max Grav 9=1275(LC 1), 2=1348(LC 1)

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

TOP CHORD 2-4=-1628/754, 4-5=-1571/764, 5-6=-1306/684, 6-7=-1605/782, 7-9=-1666/773  
 BOT CHORD 2-12=-601/1264, 10-12=-590/1332, 9-10=-550/1286  
 WEBS 5-12=-274/602, 6-10=-255/581, 7-10=-198/254

**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; BCCL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=536, 2=562.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 52 lb up at 7-0-0, 69 lb down and 46 lb up at 8-11-0, and 69 lb down and 45 lb up at 9-9-4, and 184 lb down and 166 lb up at 11-10-0 on top chord, and 369 lb down and 256 lb up at 7-0-0, 137 lb down and 88 lb up at 8-11-0, and 137 lb down and 88 lb up at 9-9-4, and 369 lb down and 256 lb up at 11-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-5=-54, 5-6=-54, 6-9=-54, 13-19=-20



Philip J. O'Regan PE No.58126  
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Continued on page 2

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job 2857394	Truss T23	Truss Type Hip Girder	Qty 1	Ply 1	REED - STEPHAN RES.  Job Reference (optional)	T25128016
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:57 2021 Page 2  
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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 5=-27(B) 6=-107(B) 11=-130(B) 12=-351(B) 10=-351(B) 25=-27(B) 27=-27(B) 28=-130(B)

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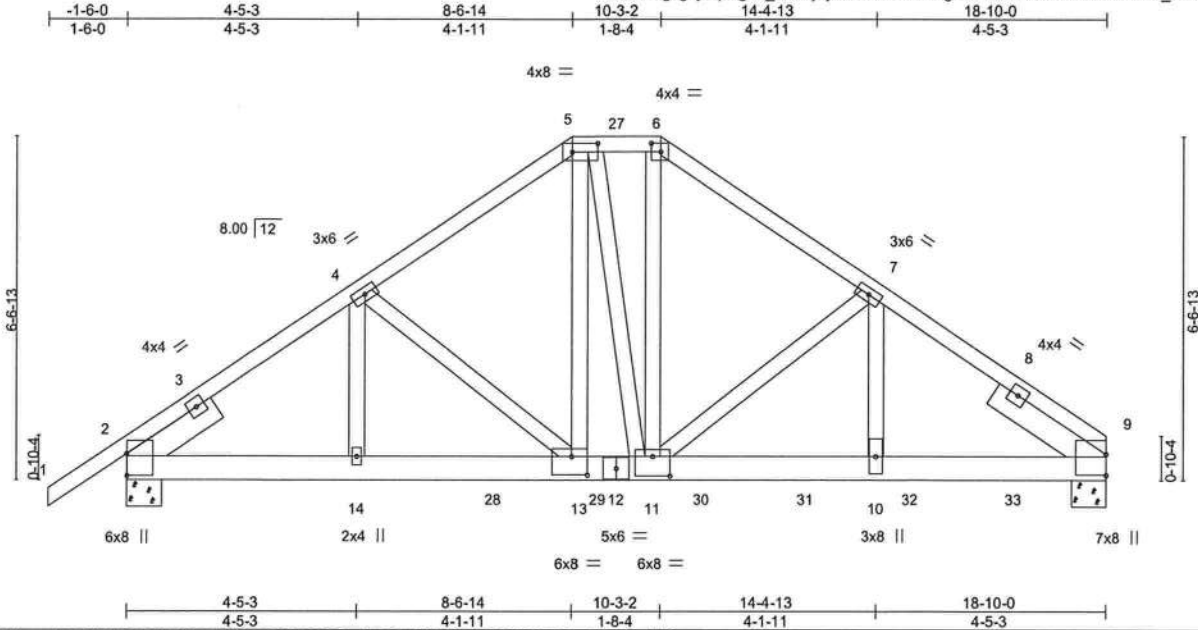
6904 Parke East Blvd.  
Tampa, FL 36610

Job 2857394	Truss T24	Truss Type Hip Girder	Qty 1	Ply 2	REED - STEPHAN RES. Job Reference (optional)	T25128017
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8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:59 2021 Page 1

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Scale = 1:42.5

Plate Offsets (X,Y)--	[2:0-5-1,0-0-1], [5:0-5-12,0-2-0], [6:0-2-4,0-2-0], [11:0-4-0,0-4-8], [13:0-3-8,0-4-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.86	Vert(LL) -0.09	10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.46	Vert(CT) -0.16	10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.47	Horz(CT) 0.04	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 282 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins.
BOT CHORD 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 2-5-8	

**REACTIONS.** (size) 9=0-8-0, 2=0-8-0  
 Max Horz 2=141(LC 5)  
 Max Uplift 9=-1213(LC 9), 2=-911(LC 8)  
 Max Grav 9=5556(LC 2), 2=3357(LC 1)

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

TOP CHORD	2-4=-4417/1229, 4-5=-4547/1212, 5-6=-4016/1041, 6-7=-4774/1193, 7-9=-6449/1456
BOT CHORD	2-14=-1018/3550, 13-14=-1018/3550, 11-13=-943/3794, 10-11=-1119/5221, 9-10=-1119/5221
WEBS	4-14=-259/72, 4-13=-173/352, 5-13=-691/1643, 5-11=0/976, 6-11=-617/2449, 7-11=-1630/370, 7-10=-333/2013

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; TCCL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1213, 2=911.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1320 lb down and 616 lb up at 7-0-12, 1302 lb down and 265 lb up at 9-0-12, 1280 lb down and 223 lb up at 11-0-12, 1288 lb down and 270 lb up at 13-0-12, and 1280 lb down and 264 lb up at 15-0-12, and 1317 lb down and 258 lb up at 17-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
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**LOAD CASE(S)** Standard

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 Tampa, FL 33610

Job 2857394	Truss T24	Truss Type Hip Girder	Qty 1	Ply 2	REED - STEPHAN RES. Job Reference (optional)	T25128017
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:05:59 2021 Page 2  
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**LOAD CASE(S)** Standard

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

Vert: 1-5=-54, 5-6=-54, 6-9=-54, 15-21=-20

Concentrated Loads (lb)

Vert: 28=-1320(F) 29=-1162(F) 30=-1167(F) 31=-1167(F) 32=-1167(F) 33=-1167(F)

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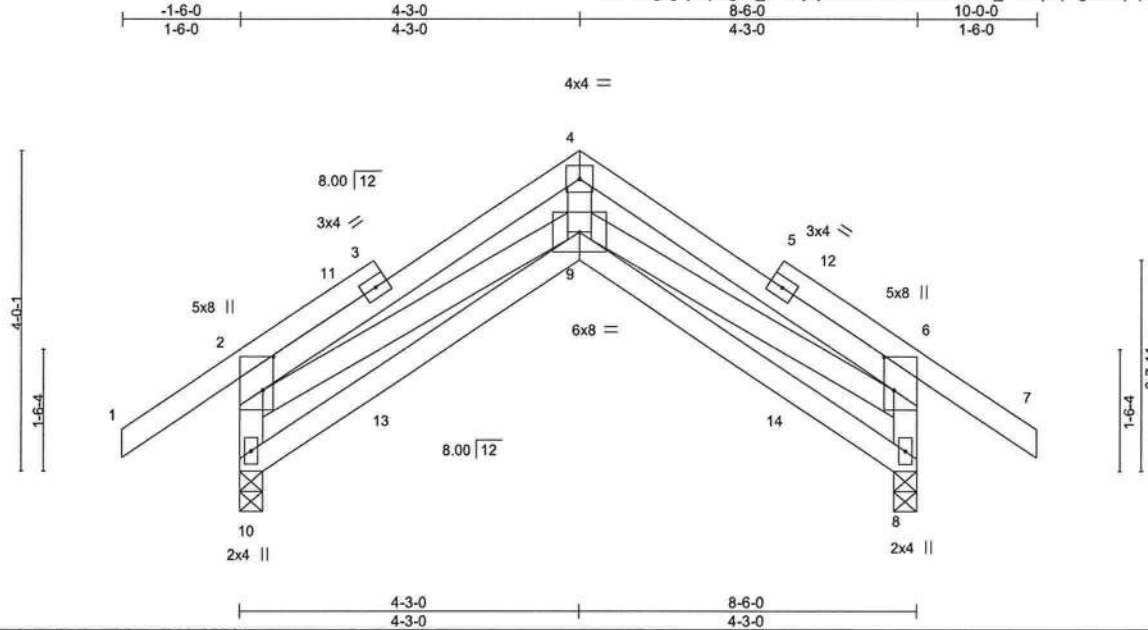
6904 Parke East Blvd.  
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Job 2857394	Truss T24G	Truss Type SCISSORS	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25128018
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Builders FirstSource (Lake City,FL),

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8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:06:00 2021 Page 1  
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Scale = 1:27.8

Plate Offsets (X,Y)--	[2:0-5-0,0-1-8], [6:0-5-0,0-1-8]							
<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) 0.04	8-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.16	Vert(CT) -0.05	9	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.07	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 60 lb	FT = 20%

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

<b>REACTIONS.</b>	(size) 10=0-3-8, 8=0-3-8
	Max Horz 10=-115(LC 10)
	Max Uplift 10=-94(LC 12), 8=-94(LC 13)
	Max Grav 10=393(LC 1), 8=393(LC 1)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-10=-400/400, 2-4=-737/405, 4-6=-737/409, 6-8=-400/417
WEBS	4-9=-285/544, 6-9=-148/548, 2-9=-101/518

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 4-3-0, Corner(3R) 4-3-0 to 7-3-0, Exterior(2N) 7-3-0 to 10-0-0 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 10, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

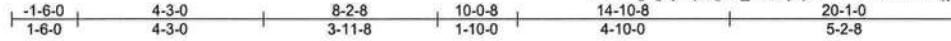
August 24,2021

<p><b>WARNING</b> - 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</p>	 6904 Parke East Blvd. Tampa, FL 33610
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Job 2857394	Truss T25	Truss Type ROOF SPECIAL	Qty 2	Ply 1	REED - STEPHAN RES.	T25128019
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:06:01 2021 Page 1  
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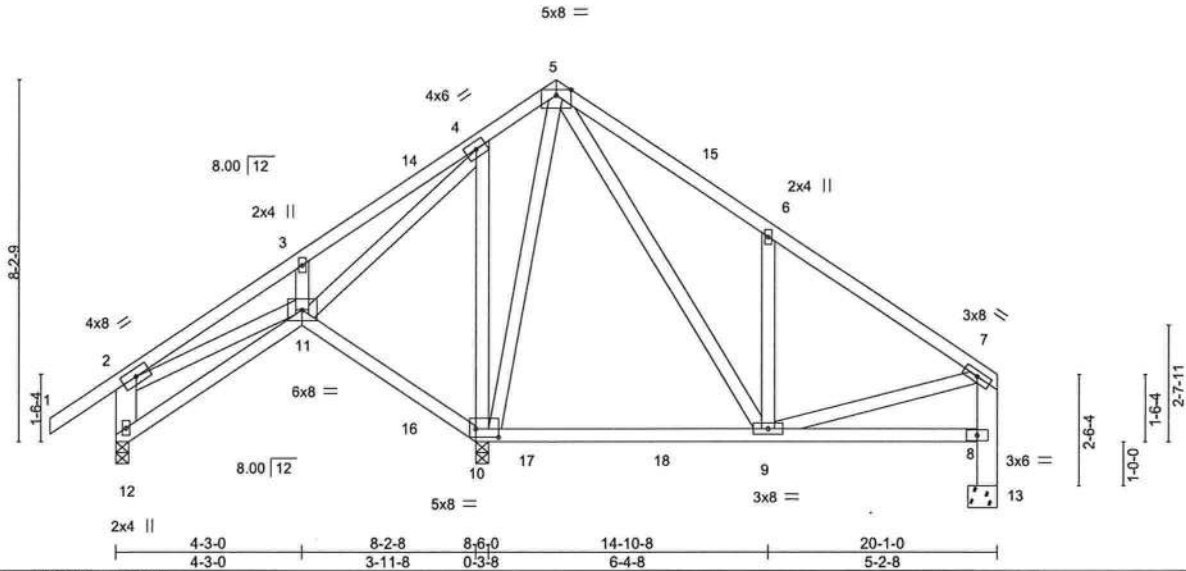


Plate Offsets (X,Y)-- [10:0-6-4,0-2-4]

<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 0.25	Vert(LL)	-0.09	9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-0.15	9-10	>950	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.01	13	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS							
									Weight: 144 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-12,7-13: 2x6 SP No.2

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

**VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).**

**REACTIONS.** (size) 12=0-3-8, 10=0-3-8, 13=0-8-0  
Max Horz 12=186(LC 9)  
Max Uplift 12=-116(LC 8), 10=-282(LC 12), 13=-112(LC 13)  
Max Grav 12=253(LC 1), 10=1136(LC 19), 13=444(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 4-5=-95/301, 5-6=-475/274, 6-7=-420/124, 8-13=-444/112, 7-8=-384/122  
WEBS 4-11=-222/402, 4-10=-284/169, 5-10=-568/87, 5-9=-216/607, 6-9=-318/230

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-0-8, Exterior(2R) 10-0-8 to 13-0-8, Interior(1) 13-0-8 to 19-10-4 zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearing at joint(s) 12, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=116, 10=282, 13=112.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

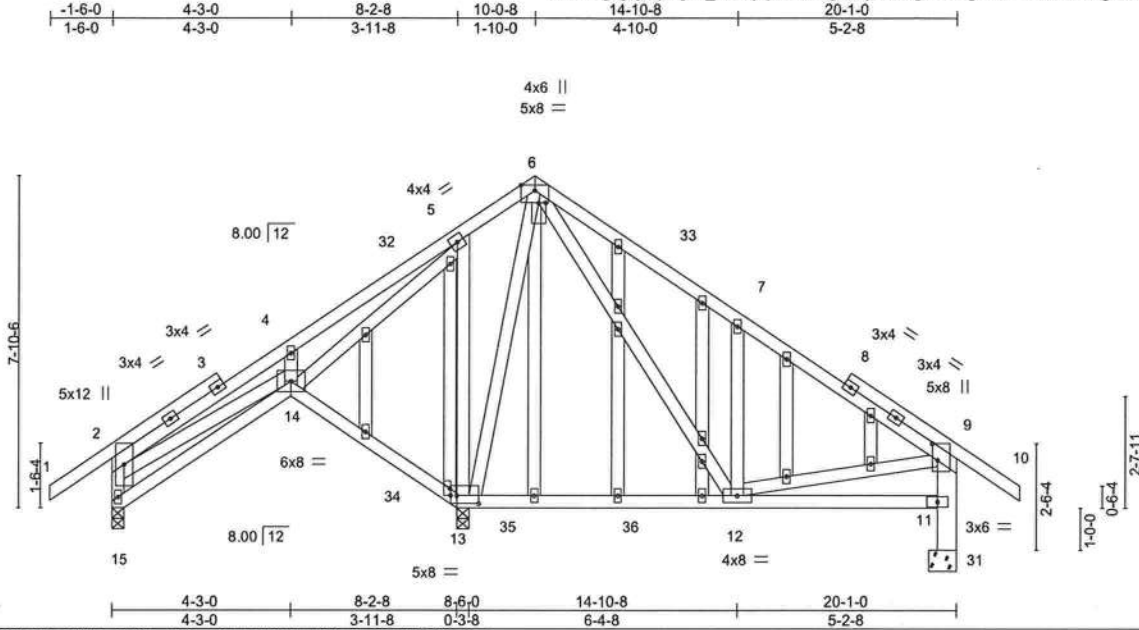
August 24, 2021

Job 2857394	Truss T25G	Truss Type GABLE	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25128020
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:06:03 2021 Page 1

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Plate Offsets (X,Y)--	[6:0-0-2,0-2-0], [9:0-4-12,0-1-8], [13:0-6-4,0-2-4], [17:0-2-0,0-0-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.22	Vert(LL)	-0.09 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.14 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.01 31	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 195 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	
OTHERS 9-31: 2x6 SP No.2	<b>VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).</b>
2x4 SP No.3	

**REACTIONS.** (size) 15=0-3-8, 31=0-8-0, 13=0-3-8  
 Max Horz 15=-189(LC 10)  
 Max Uplift 15=-123(LC 8), 31=-165(LC 13), 13=-266(LC 12)  
 Max Grav 15=243(LC 20), 31=533(LC 20), 13=1160(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 5-6=-95/350, 6-7=-470/286, 7-9=-428/149, 11-31=-533/165, 9-11=-470/176  
 BOT CHORD 14-15=-185/253, 13-14=-276/199  
 WEBS 5-14=-196/383, 5-13=-262/155, 6-13=-602/70, 6-12=-201/601, 7-12=-296/212

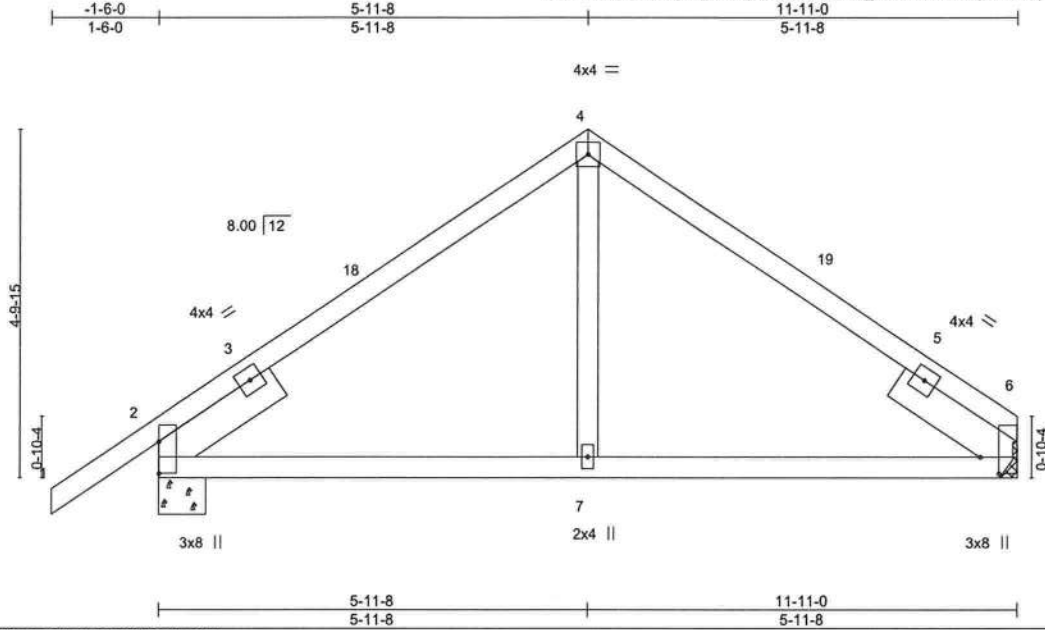
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-0-8, Exterior(2R) 10-0-8 to 13-0-8, Interior(1) 13-0-8 to 21-7-0 zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
  - Bearing at joint(s) 15, 31 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=123, 31=165, 13=266.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24,2021

Job 2857394	Truss T26	Truss Type COMMON	Qty 4	Ply 1	REED - STEPHAN RES.	T25128021
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:06:05 2021 Page 1  
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Scale = 1:30.8

Plate Offsets (X,Y)--	[2:0-5-5,0-0-1], [6:0-2-12,0-3-1]				
<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 0.34	Vert(LL) 0.05 7-10 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.28	Vert(CT) -0.07 7-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) -0.02 6 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 58 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**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) 6=Mechanical, 2=0-8-0  
 Max Horz 2=102(LC 11)  
 Max Uplift 6=-82(LC 13), 2=-122(LC 12)  
 Max Grav 6=421(LC 1), 2=542(LC 1)

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

TOP CHORD 2-4=-431/155, 4-6=-370/154  
 BOT CHORD 2-7=-40/298, 6-7=-40/298

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-11-8, Exterior(2R) 5-11-8 to 8-11-8, Interior(1) 8-11-8 to 11-11-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=122.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

August 24, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

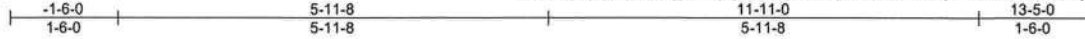


6904 Parke East Blvd.  
 Tampa, FL 36610

Job 2857394	Truss T26G	Truss Type GABLE	Qty 1	Ply 1	REED - STEPHAN RES. Job Reference (optional)	T25128022
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:06:08 2021 Page 1  
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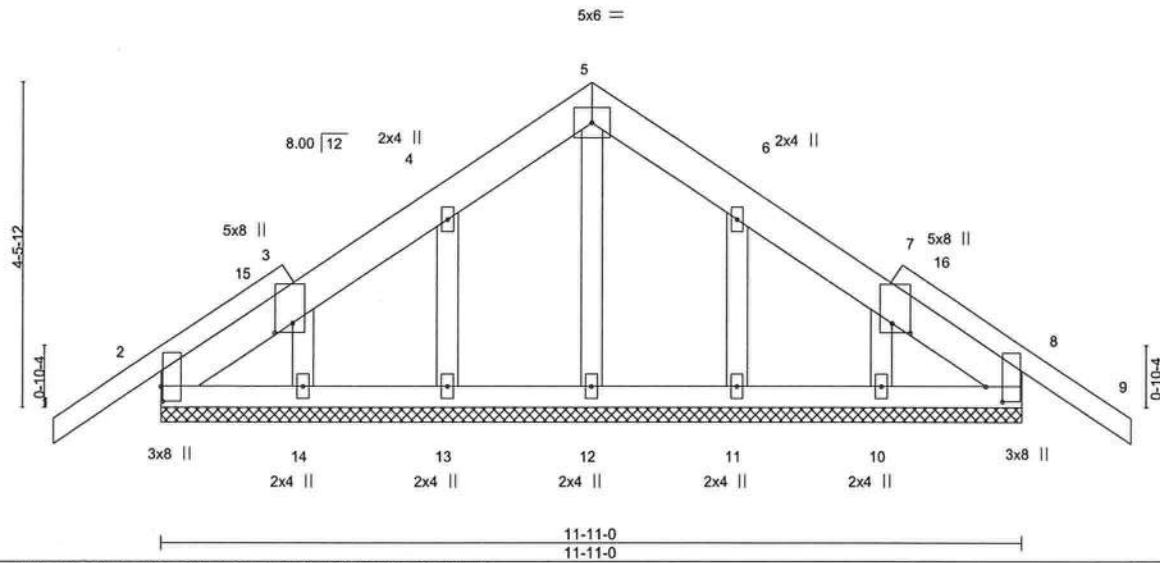


Plate Offsets (X, Y)--	[2:0-2-8,0-0-5], [3:0-1-9,0-3-0], [7:0-1-9,0-3-0], [8:0-2-8,0-2-13]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL)	-0.01	9	n/r	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT)	-0.01	9	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 79 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.2 \*Except\*  
1-3,7-9: 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

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

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

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 5-11-8, Corner(3R) 5-11-8 to 8-11-8, Exterior(2N) 8-11-8 to 13-5-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: August 24, 2021

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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



Job 2857394	Truss T27	Truss Type Hip Girder	Qty 1	Ply 1	REED - STEPHAN RES.	T25128023
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:06:10 2021 Page 1  
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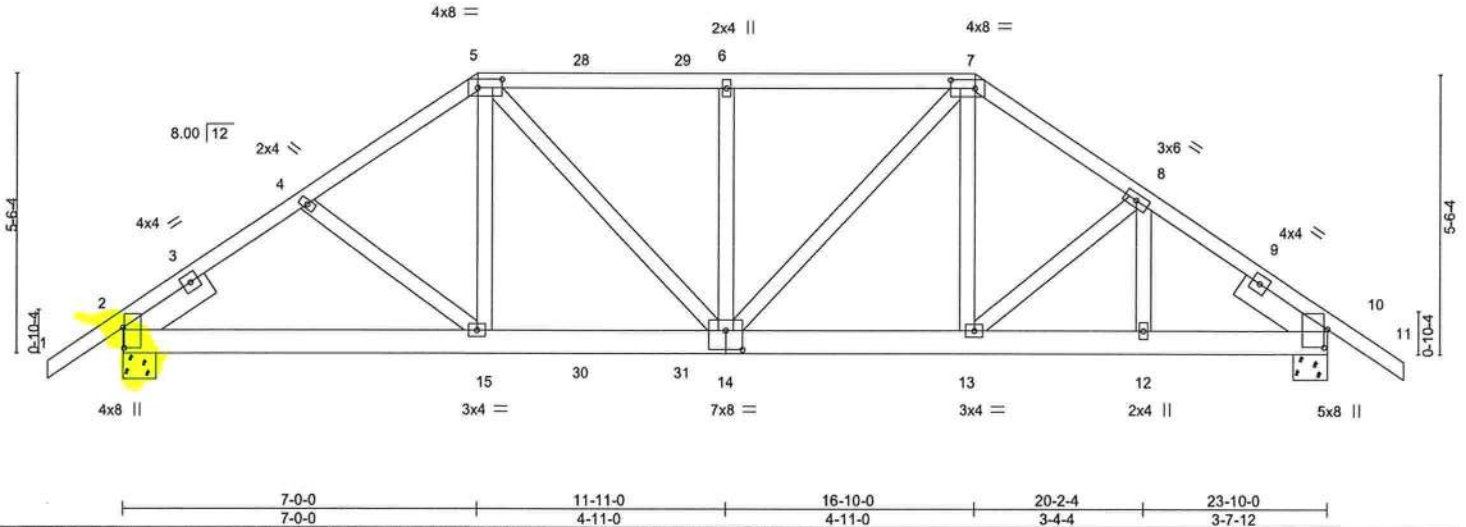


Plate Offsets (X,Y)--	[2:0-4-13,0-0-5], [5:0-5-12,0-2-0], [7:0-5-12,0-2-0], [10:0-4-5,0-0-13], [14:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL)	-0.09 14-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.17 14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 167 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP M 31 \*Except\*  
5-7: 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-6-4 oc bracing.

**REACTIONS.** (size) 2=0-8-0, 10=0-8-0  
Max Horz 2=-125(LC 6)  
Max Uplift 2=-642(LC 8), 10=-527(LC 9)  
Max Grav 2=1868(LC 1), 10=1663(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-2382/866, 4-5=-2363/883, 5-6=-2559/935, 6-7=-2559/935, 7-8=-2077/720, 8-10=-1930/633  
BOT CHORD 2-15=-670/1821, 14-15=-717/1968, 13-14=-476/1707, 12-13=-421/1511, 10-12=-421/1511  
WEBS 4-15=-192/269, 5-15=-206/491, 5-14=-281/893, 6-14=-323/173, 7-14=-541/1286, 8-13=-188/318, 8-12=-272/113

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=642, 10=527.
  - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 52 lb up at 7-0-0, and 69 lb down and 50 lb up at 9-0-12, and 69 lb down and 48 lb up at 11-0-12 on top chord, and 369 lb down and 256 lb up at 7-0-0, 137 lb down and 88 lb up at 9-0-12, and 137 lb down and 88 lb up at 11-0-12, and 915 lb down and 292 lb up at 11-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 9) 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



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: August 24,2021

Continued on page 2

**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Tampa, FL 33610

Job 2857394	Truss T27	Truss Type Hip Girder	Qty 1	Ply 1	REED - STEPHAN RES.  Job Reference (optional)	T25128023
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:06:10 2021 Page 2  
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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-5=-54, 5-7=-54, 7-11=-54, 16-22=-20

Concentrated Loads (lb)

Vert: 5=-27(B) 15=-351(B) 14=-915(B) 28=-27(B) 29=-27(B) 30=-130(B) 31=-130(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

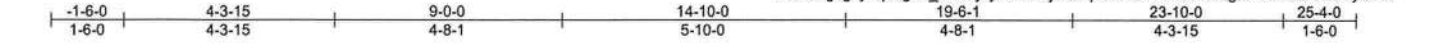


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Tampa, FL 36610

Job 2857394	Truss T28	Truss Type HIP	Qty 1	Ply 1	REED - STEPHAN RES.	T25128024
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:06:12 2021 Page 1  
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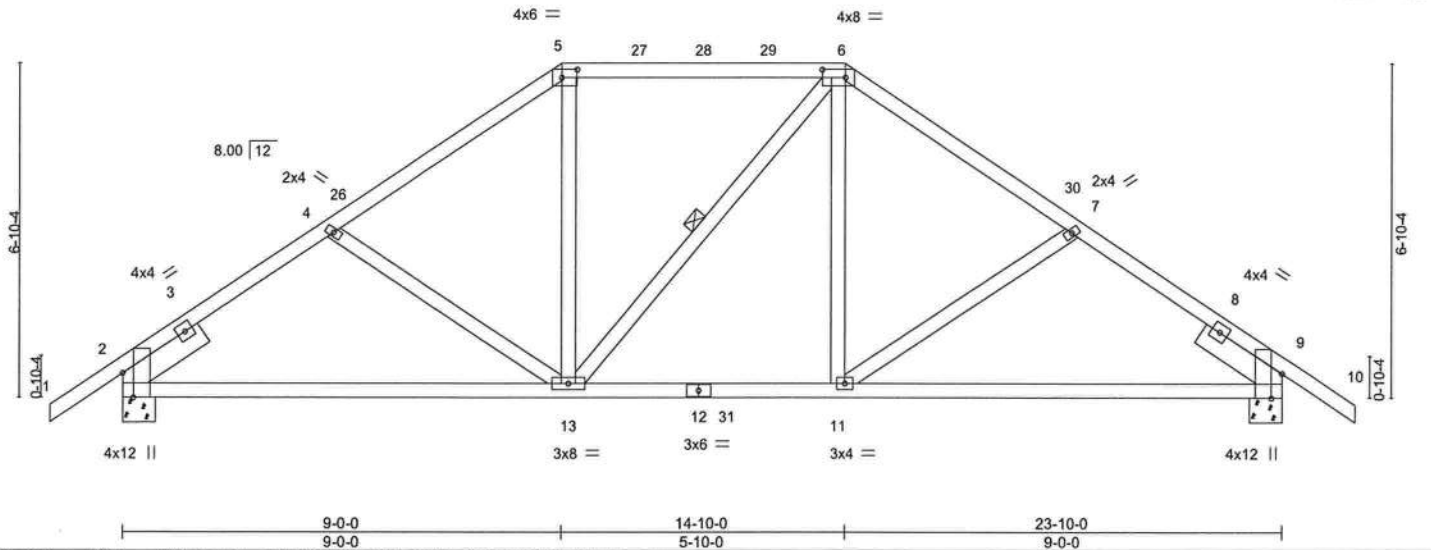


Plate Offsets (X,Y)--	[2:0-6-1,Edge], [5:0-3-12,0-2-0], [6:0-5-12,0-2-0], [9:0-6-1,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	Vert(LL)	-0.11 11-24	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.77	Vert(CT)	-0.21 11-24	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.12	Horz(CT)	0.05 9	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2020/TPI2014						Weight: 139 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-13
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

**REACTIONS.** (size) 2=0-8-0, 9=0-8-0  
 Max Horz 2=-155(LC 10)  
 Max Uplift 2=-214(LC 12), 9=-214(LC 13)  
 Max Grav 2=1022(LC 2), 9=1027(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1097/246, 4-5=-991/216, 5-6=-799/225, 6-7=-999/217, 7-9=-1105/246  
 BOT CHORD 2-13=-208/917, 11-13=-52/806, 9-11=-104/852  
 WEBS 5-13=-32/310, 6-11=-32/334

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 14-10-0, Exterior(2R) 14-10-0 to 19-0-15, Interior(1) 19-0-15 to 25-4-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=214, 9=214.

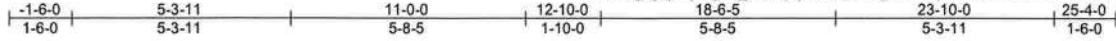


Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: August 24, 2021

Job 2857394	Truss T29	Truss Type HIP	Qty 1	Ply 1	REED - STEPHAN RES.	T25128025
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 23 15:06:13 2021 Page 1  
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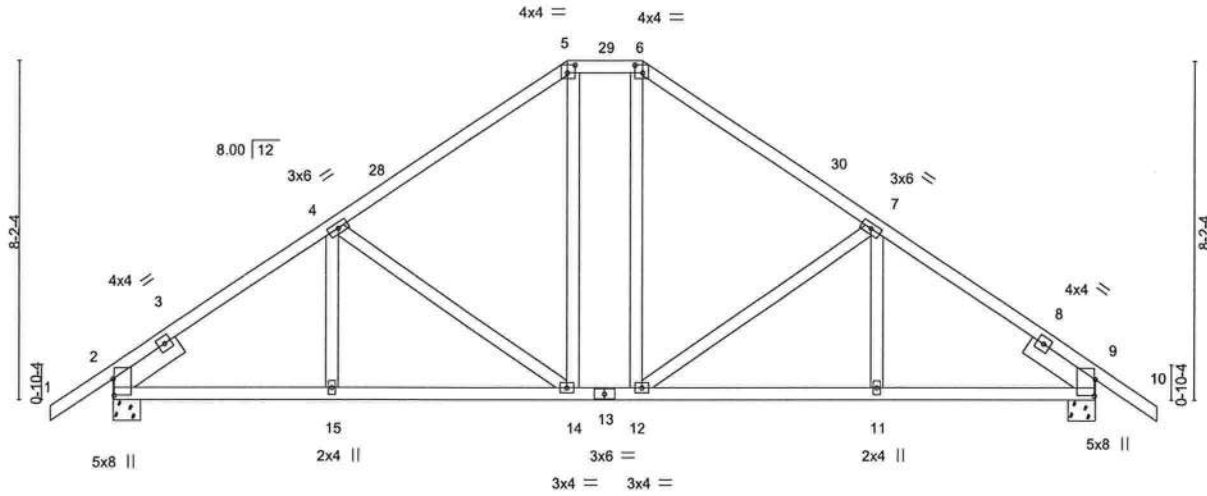


Plate Offsets (X,Y)--	[2:0-4-13,0-0-5], [5:0-2-4,0-2-4], [6:0-2-4,0-2-4], [9:0-4-13,0-0-5]
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LOADING (psf)	SPACING-	CSi.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.77	Vert(LL) -0.10 11-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.26	Vert(CT) -0.18 11-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 9 n/a n/a		
	Code FBC2020/TPI2014			Weight: 147 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

**REACTIONS.** (size) 2=0-8-0, 9=0-8-0  
 Max Horz 2=184(LC 11)  
 Max Uplift 2=-208(LC 12), 9=-208(LC 13)  
 Max Grav 2=963(LC 1), 9=963(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1056/222, 4-5=-841/223, 5-6=-633/213, 6-7=-841/223, 7-9=-1056/222  
 BOT CHORD 2-15=-205/826, 14-15=-205/826, 12-14=-54/633, 11-12=-87/806, 9-11=-87/806  
 WEBS 4-14=-277/184, 7-12=-277/184

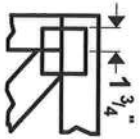
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., Gcpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2E) 11-0-0 to 12-10-0, Exterior(2R) 12-10-0 to 17-0-15, Interior(1) 17-0-15 to 25-4-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=208, 9=208.



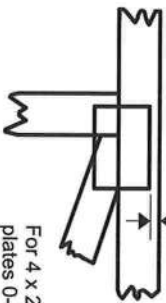
Philip J. O'Regan PE No.58126  
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# Symbols

## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

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

## PLATE SIZE

4 X 4

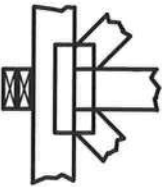
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



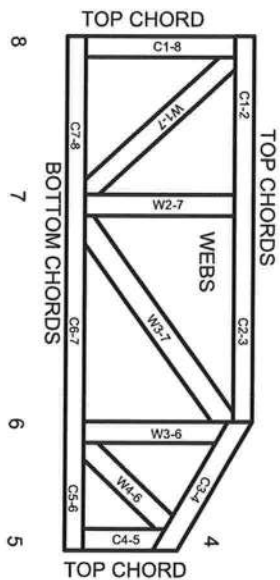
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

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



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on Lumber values established by others.

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# General Safety Notes

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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 1 bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.



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