



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

RE: 2340302 - IC CONST. - SUZIE HALL

MiTek USA, Inc.

6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

Customer Info: IC Construction Project Name: Suzie Hall Model: Custom  
Lot/Block: N/A Subdivision: N/A  
Address: TBD, TBD  
City: Columbia Cty State: FL

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

Name: License #:  
Address:  
City: State:

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

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2  
Wind Code: ASCE 7-10 Wind Speed: 130 mph  
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 46 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	T20177731	CJ01	5/11/20	23	T20177753	T08	5/11/20
2	T20177732	CJ03	5/11/20	24	T20177754	T09	5/11/20
3	T20177733	CJ05	5/11/20	25	T20177755	T10	5/11/20
4	T20177734	EJ01	5/11/20	26	T20177756	T11	5/11/20
5	T20177735	EJ02	5/11/20	27	T20177757	T12	5/11/20
6	T20177736	HJ08	5/11/20	28	T20177758	T13	5/11/20
7	T20177737	HJ10	5/11/20	29	T20177759	T14	5/11/20
8	T20177738	PB01	5/11/20	30	T20177760	T15	5/11/20
9	T20177739	PB01G	5/11/20	31	T20177761	T15G	5/11/20
10	T20177740	PB02	5/11/20	32	T20177762	T16	5/11/20
11	T20177741	PB02G	5/11/20	33	T20177763	T16G	5/11/20
12	T20177742	PB03	5/11/20	34	T20177764	T17	5/11/20
13	T20177743	T01	5/11/20	35	T20177765	T18	5/11/20
14	T20177744	T01G	5/11/20	36	T20177766	T19	5/11/20
15	T20177745	T02	5/11/20	37	T20177767	T19G	5/11/20
16	T20177746	T02G	5/11/20	38	T20177768	T20	5/11/20
17	T20177747	T03	5/11/20	39	T20177769	T21	5/11/20
18	T20177748	T04	5/11/20	40	T20177770	T22	5/11/20
19	T20177749	T05	5/11/20	41	T20177771	T23	5/11/20
20	T20177750	T06	5/11/20	42	T20177772	T24	5/11/20
21	T20177751	T07	5/11/20	43	T20177773	T25	5/11/20
22	T20177752	T07G	5/11/20	44	T20177774	T26	5/11/20

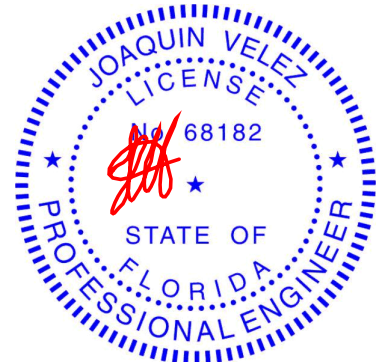


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2021.

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020



RE: 2340302 - IC CONST. - SUZIE HALL

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

**Site Information:**

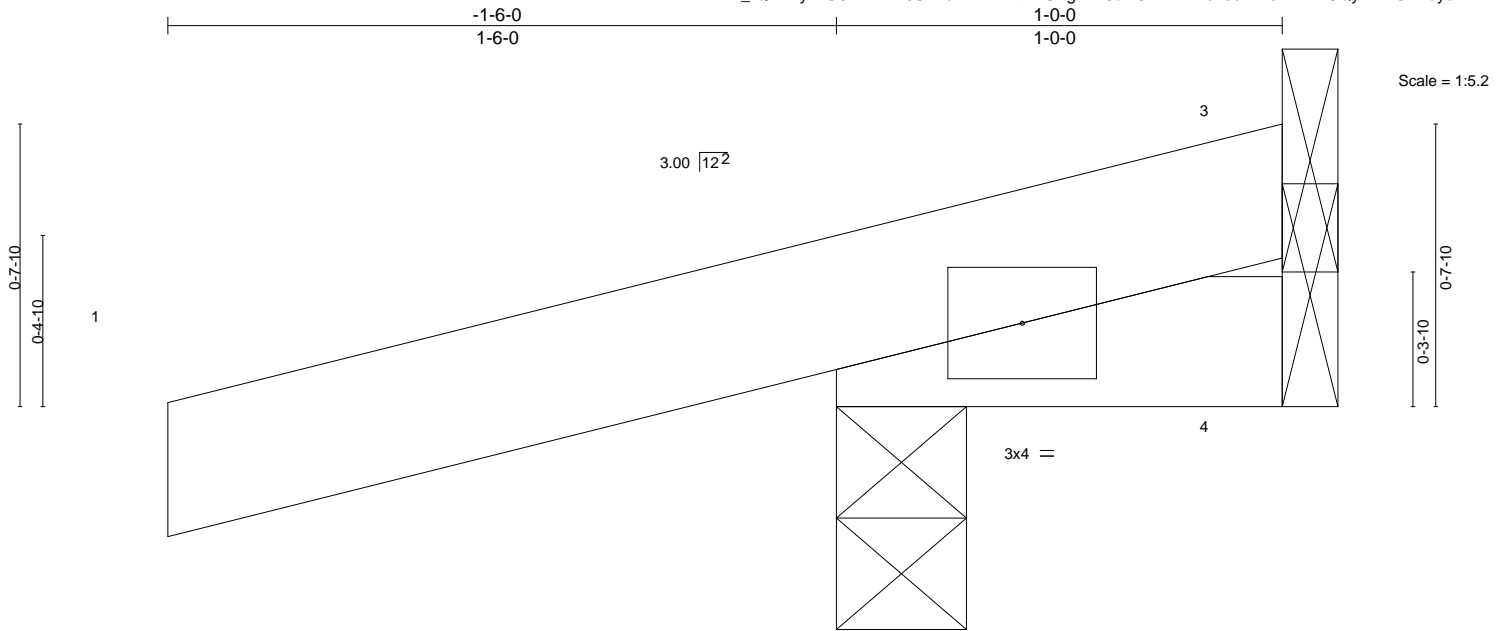
Customer Info: IC Construction    Project Name: Suzie Hall    Model: Custom  
Lot/Block: N/A    Subdivision: N/A  
Address: TBD, TBD  
City: Columbia Cty    State: FL

No.	Seal#	Truss Name	Date
45	T20177775	T27	5/11/20
46	T20177776	T28	5/11/20

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177731
2340302	CJ01	Jack-Open	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:15 2020 Page 1  
ID: \_fQV2AyXLSCLMmITf8SkYdzIHwN-EtZhSxgvE15uXGwfZZnVe2sbWNsxWKMSQymNzGzHdyc



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.15	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25		BC 0.03	Vert(CT)	0.00	5	>999	180		
BCLL 0.0 *	Lumber DOL 1.25		WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES		Matrix-MP						Weight: 5 lb	FT = 20%
	Code FBC2017/TPI2014									

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

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

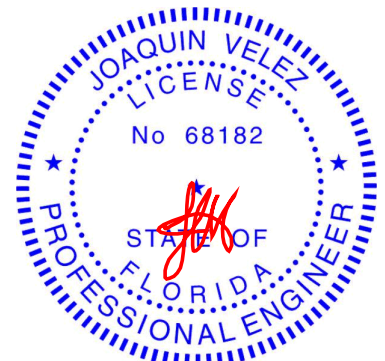
**REACTIONS.** (lb/size) 3=-3/Mechanical, 2=179/0-3-8, 4=-22/Mechanical  
Max Horz 2=37(LC 8)  
Max Uplift 3=-4(LC 9), 2=-182(LC 8), 4=-22(LC 1)  
Max Grav 3=10(LC 16), 2=179(LC 1), 4=28(LC 8)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 3, 182 lb uplift at joint 2 and 22 lb uplift at joint 4.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

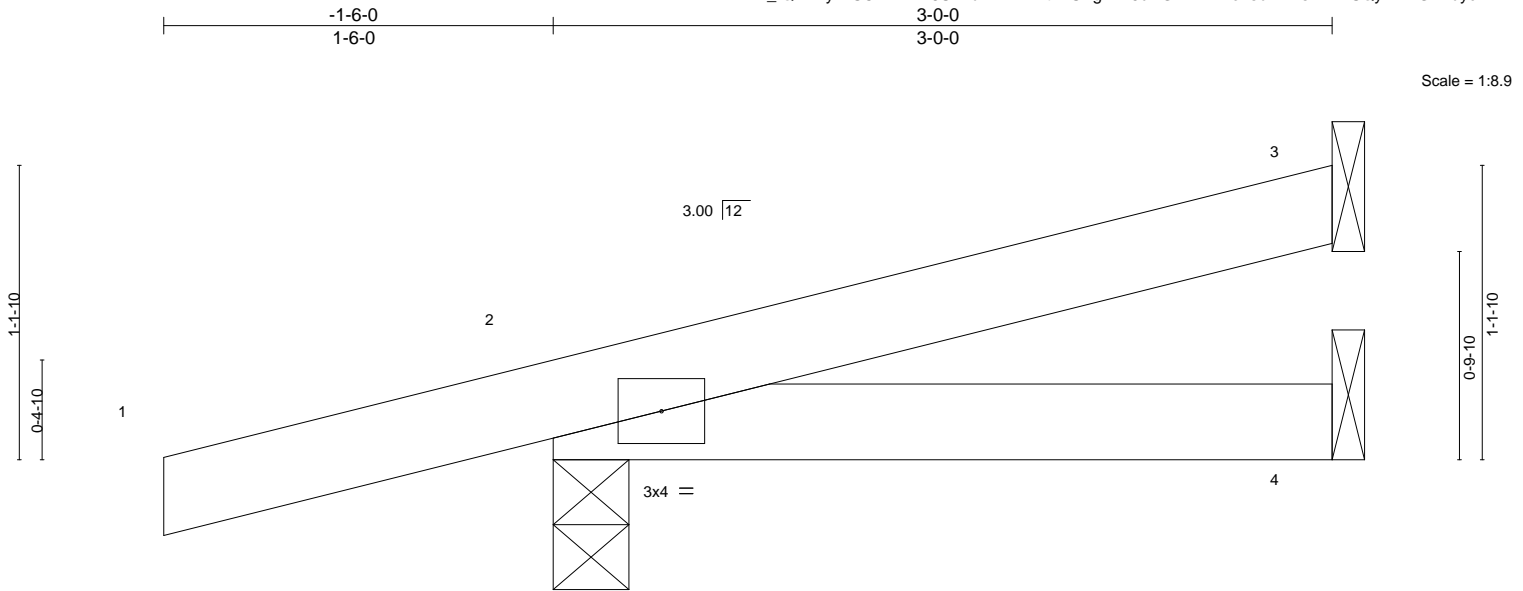


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177732
2340302	CJ03	Jack-Open	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.15	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25		BC 0.09	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Lumber DOL 1.25		WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES		Matrix-MP						Weight: 11 lb	FT = 20%
	Code FBC2017/TPI2014									

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

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

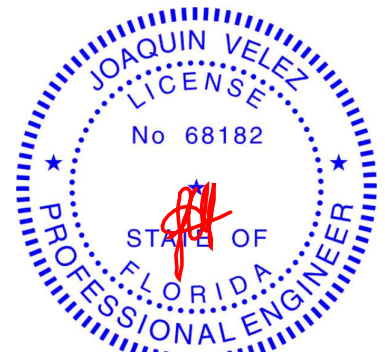
**REACTIONS.** (lb/size) 3=58/Mechanical, 2=210/0-3-8, 4=30/Mechanical  
Max Horz 2=61(LC 8)  
Max Uplift 3=-46(LC 8), 2=-191(LC 8), 4=-26(LC 9)  
Max Grav 3=58(LC 1), 2=210(LC 1), 4=48(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3, 191 lb uplift at joint 2 and 26 lb uplift at joint 4.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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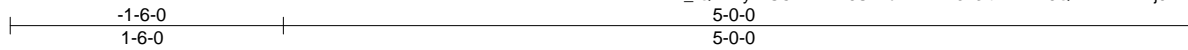


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177733
2340302	CJ05	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:16 2020 Page 1  
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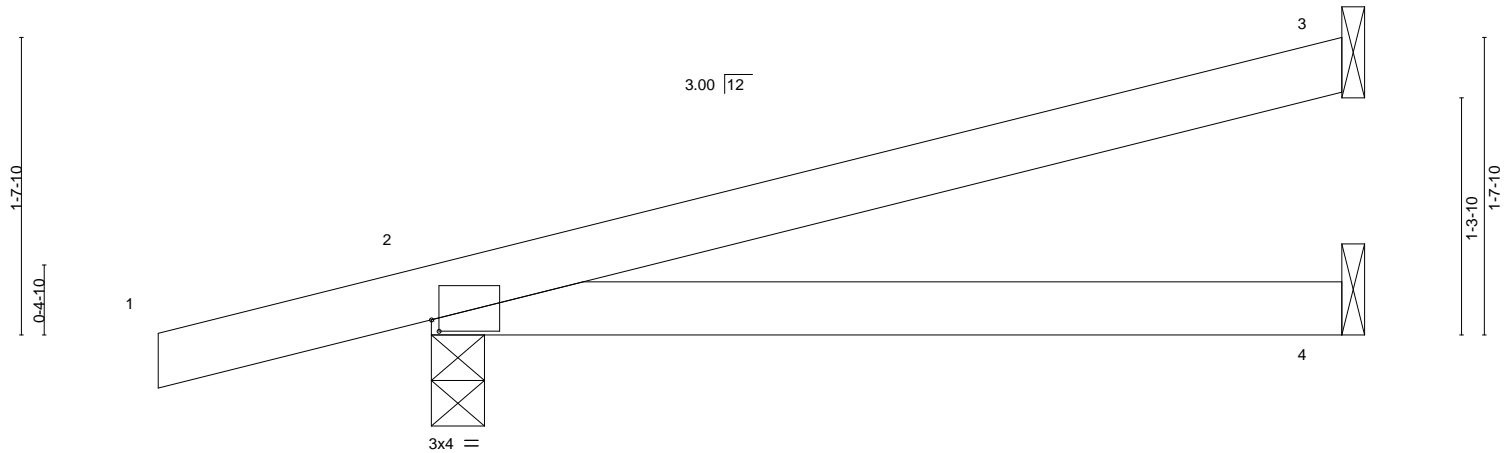


Plate Offsets (X,Y)-- [2:0-0-8,0-0-12]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.35	Vert(LL)	0.08	4-7	>725	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	0.07	4-7	>836	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

**REACTIONS.** (lb/size) 3=111/Mechanical, 2=276/0-3-8, 4=59/Mechanical  
Max Horz 2=86(LC 8)  
Max Uplift 3=91(LC 8), 2=237(LC 8), 4=50(LC 8)  
Max Grav 3=111(LC 1), 2=276(LC 1), 4=86(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 3, 237 lb uplift at joint 2 and 50 lb uplift at joint 4.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020

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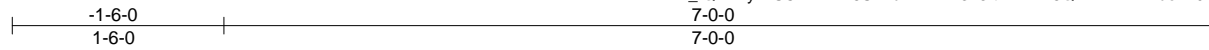


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177734
2340302	EJ01	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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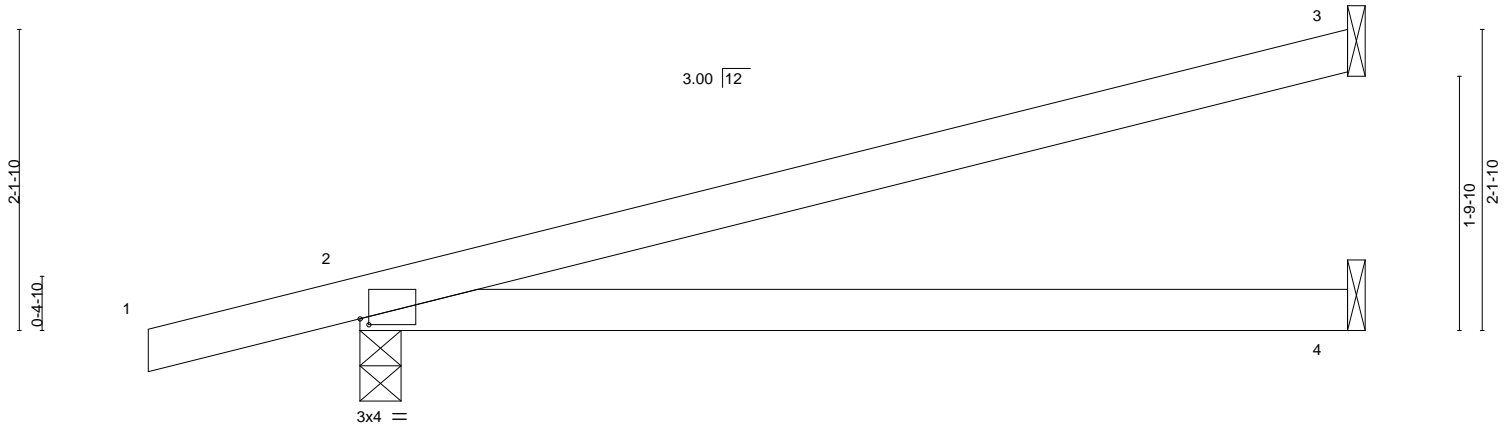


Plate Offsets (X,Y)-- [2:0-0-12,0-0-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.75	Vert(LL)	0.33	4-7	>255	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	0.28	4-7	>296	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight: 24 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

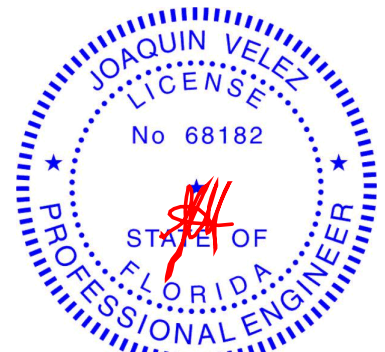
**REACTIONS.** (lb/size) 3=163/Mechanical, 2=346/0-3-8, 4=85/Mechanical  
Max Horz 2=111(LC 8)  
Max Uplift 3=134(LC 8), 2=289(LC 8), 4=73(LC 8)  
Max Grav 3=163(LC 1), 2=346(LC 1), 4=123(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 3, 289 lb uplift at joint 2 and 73 lb uplift at joint 4.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
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Date:

May 11, 2020

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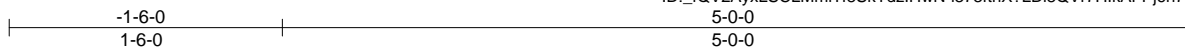
6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177735
2340302	EJ02	Jack-Open	10	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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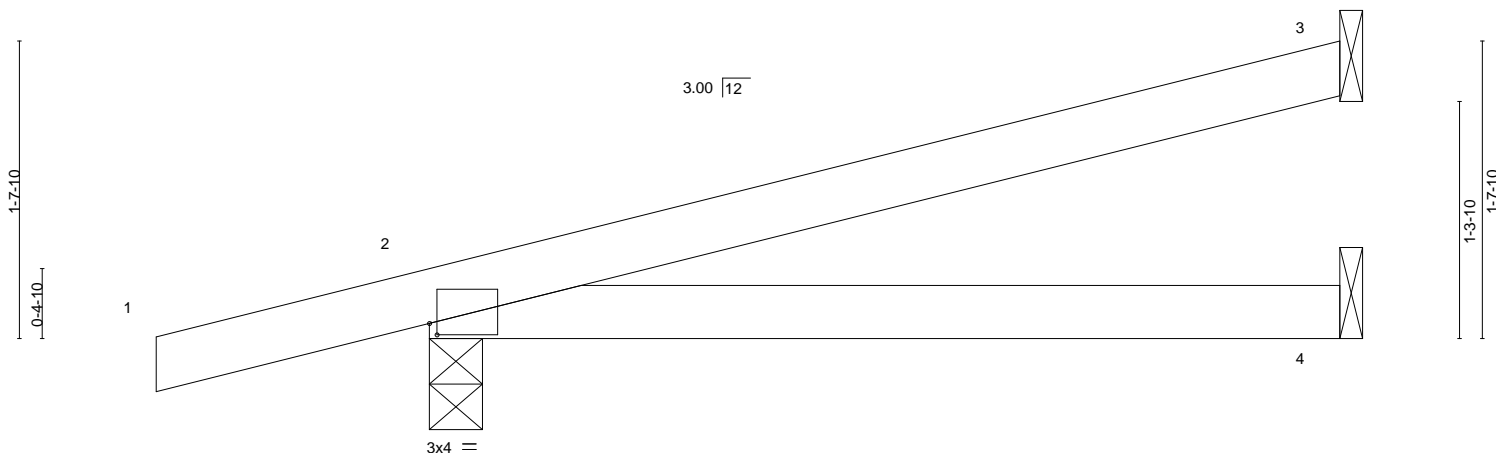


Plate Offsets (X,Y)-- [2:0-0-8,0-0-12]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.35	Vert(LL)	0.08	4-7	>725	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	0.07	4-7	>836	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(lb/size) 3=111/Mechanical, 2=276/0-3-8, 4=59/Mechanical  
Max Horz 2=86(LC 8)  
Max Uplift 3=91(LC 8), 2=237(LC 8), 4=50(LC 8)  
Max Grav 3=111(LC 1), 2=276(LC 1), 4=86(LC 3)

#### FORCES.

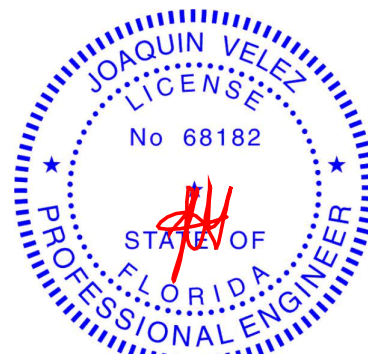
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 3, 237 lb uplift at joint 2 and 50 lb uplift at joint 4.

#### LOAD CASE(S)

Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177736
2340302	HJ08	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:17 2020 Page 1  
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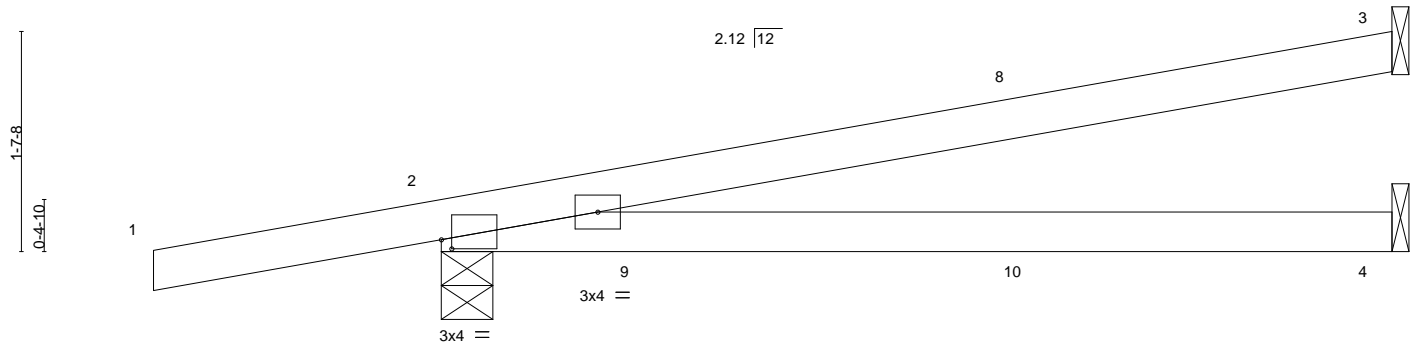
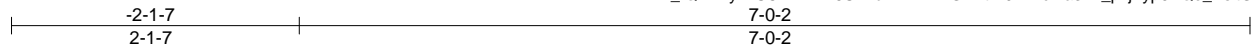


Plate Offsets (X,Y)-- [2:0-0-15,0-0-13]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.65	Vert(LL)	0.20	4-7	>413	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.20	4-7	>407	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight: 24 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

**REACTIONS.** (lb/size) 3=158/Mechanical, 2=393/0-4-9, 4=88/Mechanical  
Max Horz 2=86(LC 4)  
Max Uplift 3=-125(LC 4), 2=-346(LC 4), 4=-72(LC 4)  
Max Grav 3=158(LC 1), 2=393(LC 1), 4=122(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 3, 346 lb uplift at joint 2 and 72 lb uplift at joint 4.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 27 lb down and 40 lb up at 4-4-0, and 27 lb down and 40 lb up at 4-4-0 on top chord, and 46 lb down and 6 lb up at 1-6-1, 46 lb down and 6 lb up at 1-6-1, and 19 lb down and 37 lb up at 4-4-0, and 19 lb down and 37 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-54, 4-5=-20  
Concentrated Loads (lb)  
Vert: 10=-11(F=-5, B=5)



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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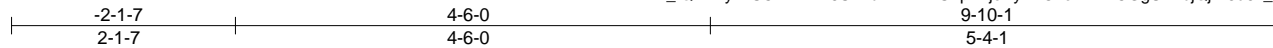
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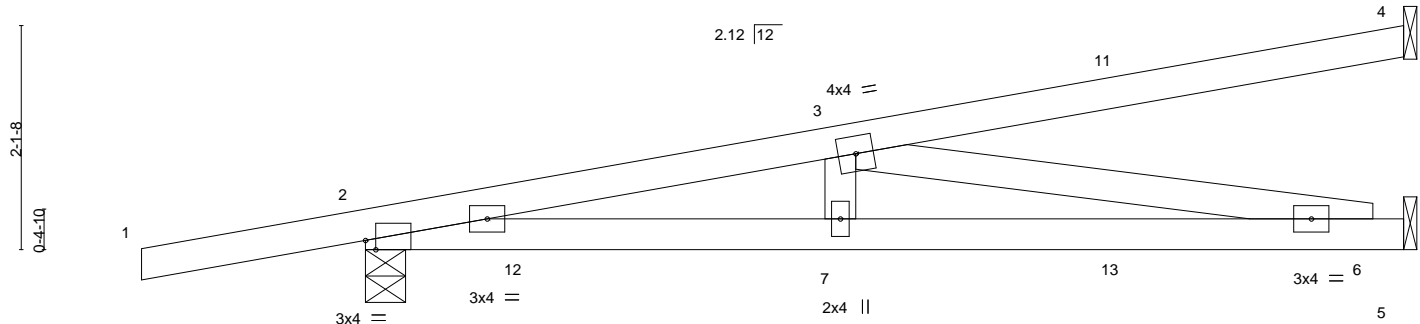
Job 2340302	Truss HJ10	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177737
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Builders FirstSource, Lake City, FL 32055

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Scale = 1:21.8



		4-6-0			9-10-1		
		4-6-0			5-4-1		
Plate Offsets (X,Y)-- [2:0-1-3,Edge]							
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL	20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL)	0.17 6-7	>694	240
TCDL	7.0	Lumber DOL 1.25	BC 0.74	Vert(CT)	-0.16 6-7	>739	180
BCLL	0.0 *	Rep Stress Incr NO	WB 0.71	Horz(CT)	-0.02 5	n/a	n/a
BCDL	10.0	Code FBC2017/TPI2014	Matrix-MS				
						Weight: 41 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-2-14 oc bracing.

**REACTIONS.** (lb/size) 4=157/Mechanical, 2=530/0-4-9, 5=294/Mechanical  
Max Horz 2=111(LC 22)  
Max Uplift 4=131(LC 8), 2=457(LC 4), 5=248(LC 4)

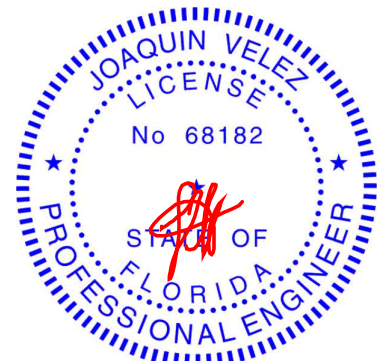
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1316/1017  
BOT CHORD 2-12=-1063/1284, 7-12=-1063/1284, 7-13=-1063/1284, 6-13=-1063/1284  
WEBS 3-7=-125/256, 3-6=-1304/1079

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 4, 457 lb uplift at joint 2 and 248 lb uplift at joint 5.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 27 lb down and 40 lb up at 4-4-0, 27 lb down and 40 lb up at 4-4-0, and 49 lb down and 93 lb up at 7-1-15, and 49 lb down and 93 lb up at 7-1-15 on top chord, and 46 lb down and 6 lb up at 1-6-1, 46 lb down and 6 lb up at 1-6-1, 19 lb down and 37 lb up at 4-4-0, 19 lb down and 37 lb up at 4-4-0, and 40 lb down and 68 lb up at 7-1-15, and 40 lb down and 68 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 5-8=-20  
Concentrated Loads (lb)  
Vert: 7=-11(F=-5, B=5) 11=-70(F=-35, B=35) 13=-61(F=-31, B=31)



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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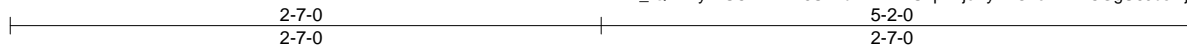


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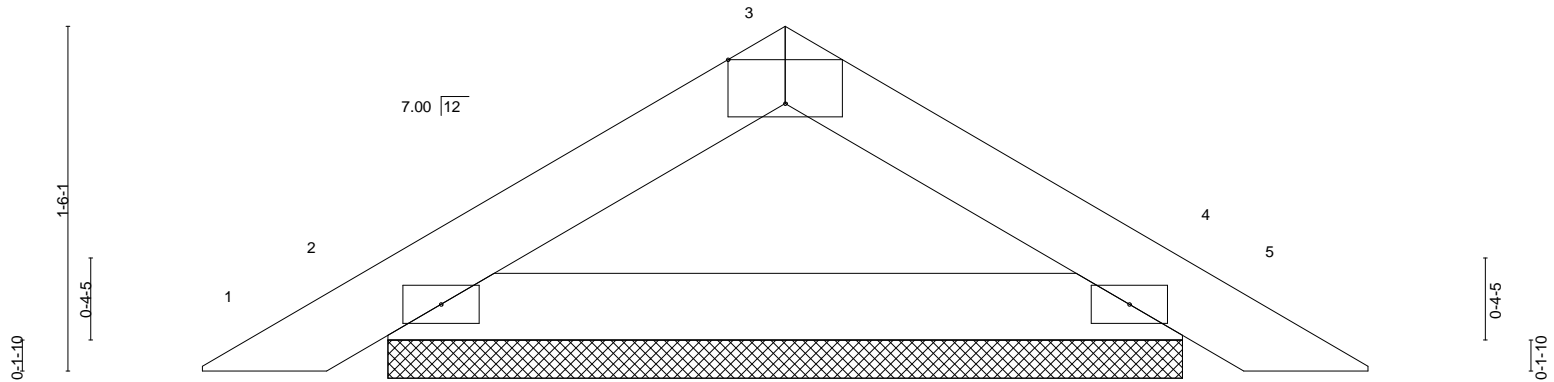
Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177738
2340302	PB01	Piggyback	8	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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3x6 =



2x4 =

2x4 =

5-2-0  
5-2-0

Plate Offsets (X,Y)--		[3:0-3-0,Edge]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 14 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(lb/size) 2=158/3-5-11, 4=158/3-5-11  
Max Horz 2=42(LC 10)  
Max Uplift 2=68(LC 12), 4=68(LC 13)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 68 lb uplift at joint 2 and 68 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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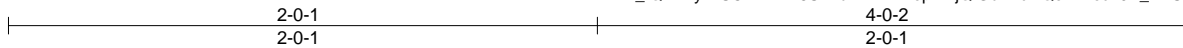


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177739
2340302	PB01G	PIGGYBACK	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:19 2020 Page 1  
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3x6 =

Scale = 1:7.8

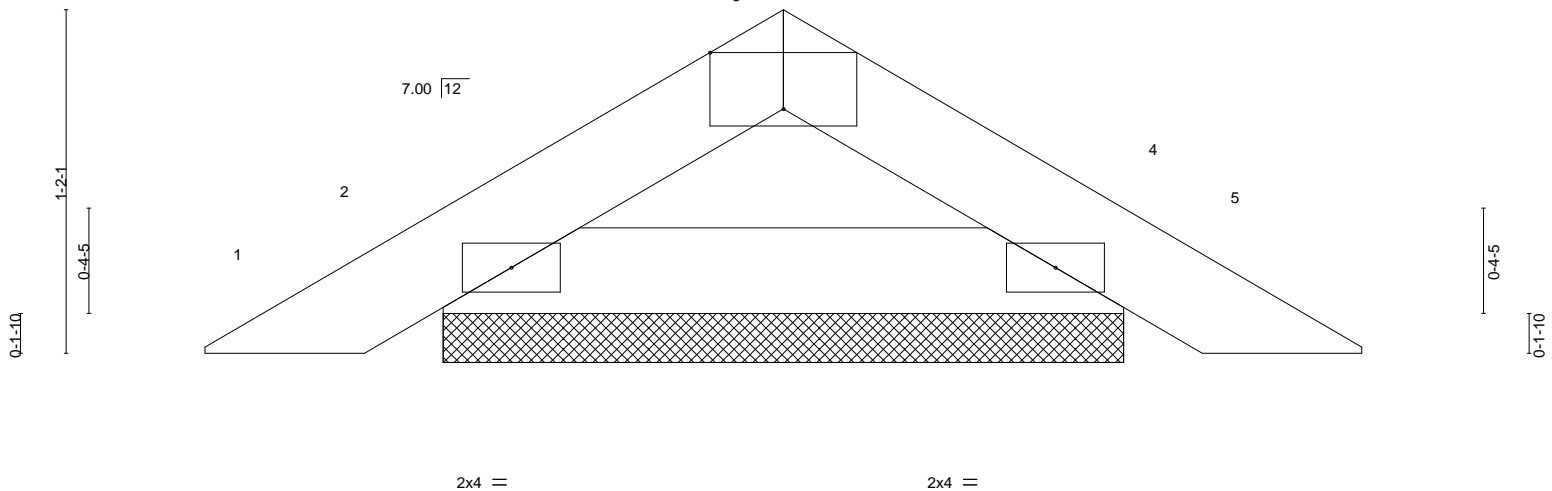


Plate Offsets (X,Y)-- [3:0-3-0,Edge]		4-0-2		4-0-2	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.03	Vert(LL)	0.00 4 n/r 120
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	0.00 4 n/r 120
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 4 n/a n/a
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-P		
				<b>PLATES</b>	<b>GRIP</b>
				MT20	244/190
				Weight: 10 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 4-0-2 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

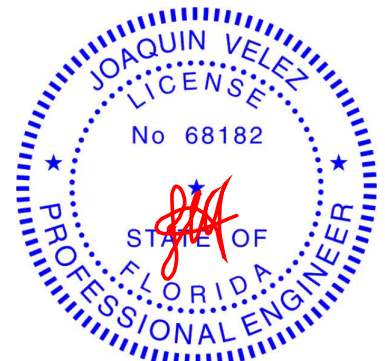
(lb/size) 2=115/2-3-13, 4=115/2-3-13  
Max Horz 2=32(LC 11)  
Max Uplift 2=52(LC 12), 4=52(LC 13)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 52 lb uplift at joint 2 and 52 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020

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6904 Parke East Blvd.  
Tampa, FL 33610

Job 2340302	Truss PB02	Truss Type Piggyback	Qty 16	Ply 1	IC CONST. - SUZIE HALL	T20177740
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Builders FirstSource, Lake City, FL 32055

8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:25:29 2020 Page 1

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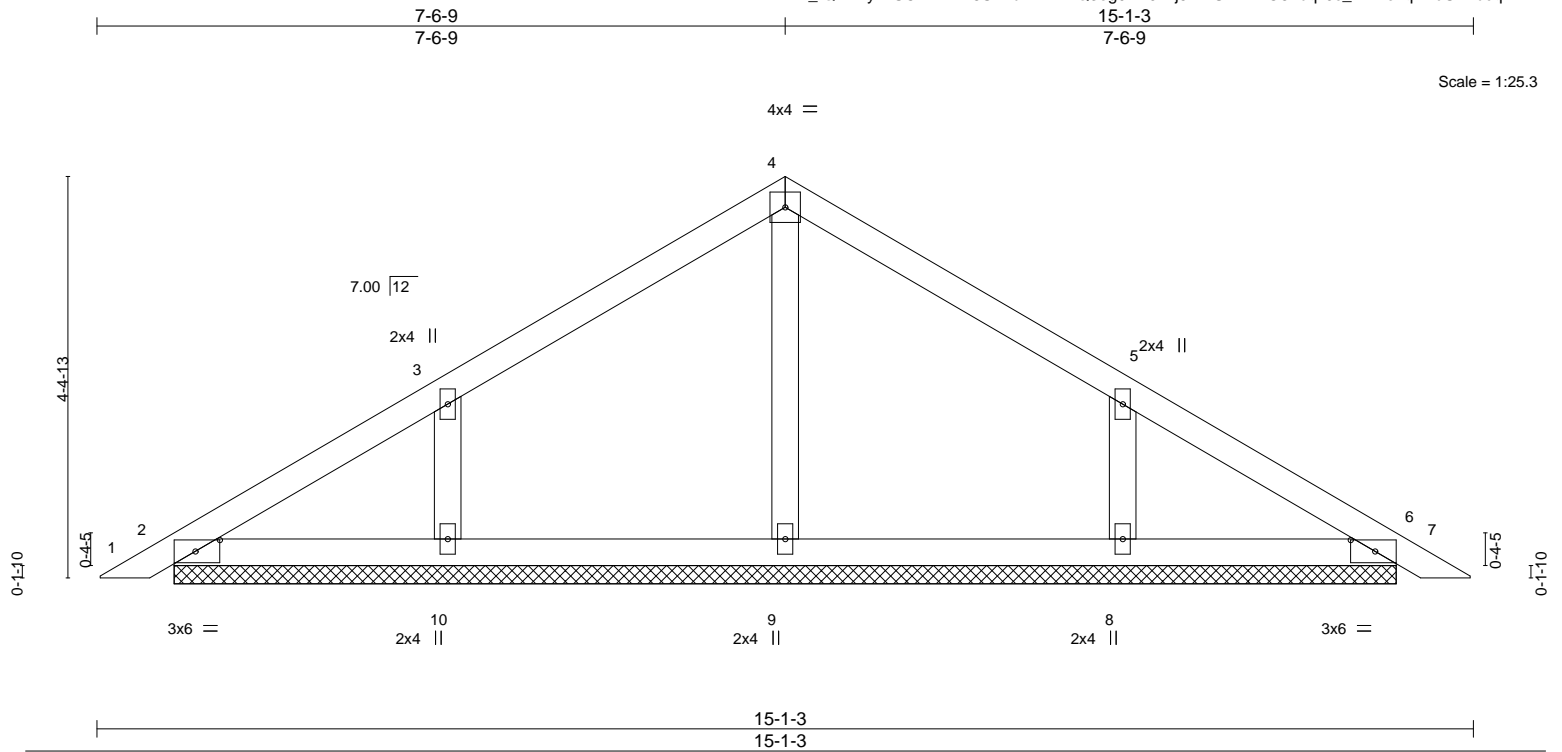


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [6:0-3-3,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	0.00	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						Weight: 56 lb	FT = 20%

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

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

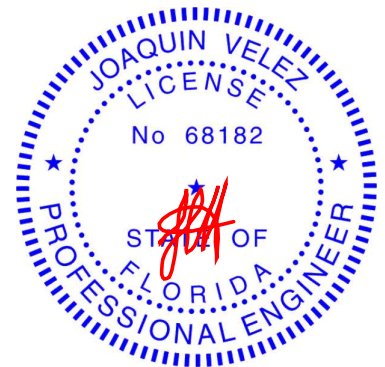
**REACTIONS.** All bearings 13-4-13.  
(lb) - Max Horz 2=134(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9 except 10=210(LC 12),  
8=210(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=321(LC 19),  
8=320(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 3-10=263/227, 5-8=263/226

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 6, 9 except (jt=lb) 10=210, 8=210.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



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MiTek USA, Inc. FL Cert 6634  
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Date:

May 11,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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6904 Parke East Blvd.  
Tampa, FL 33610

Builders FirstSource, Lake City, FL 32055 Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:20 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SKYdzIHwN-brNaVEk23ajBd2ocM6MgL5aUmOZYBb0BZDT8eTzHdyX

13-11-5  
6-11-11

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

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 13=107, 14=119, 11=106, 10=119.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020



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6904 Parke East Blvd.  
Tampa, FL 36610

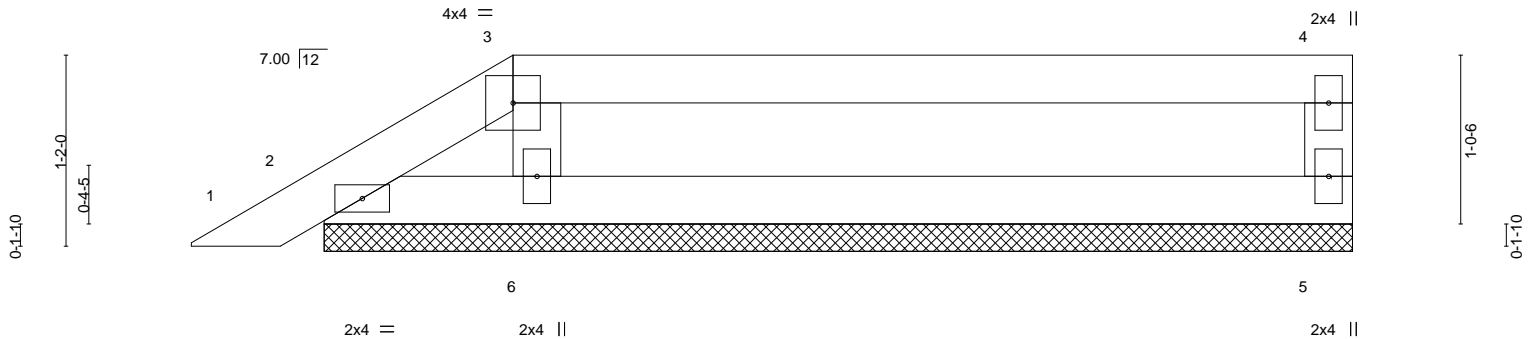
Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177742
2340302	PB03	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:20 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SkYdzlHwN-brNaVEk23ajBd2ocM6MgLSaOJOWUBbmBZDT8eTzHdyX

7-1-8  
7-1-8

Scale = 1:14.1



7-1-8  
7-1-8

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL) 0.00	1	n/r	120	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.19	Vert(CT) 0.00	1	n/r	120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 22 lb	FT = 20%
	Code FBC2017/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 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

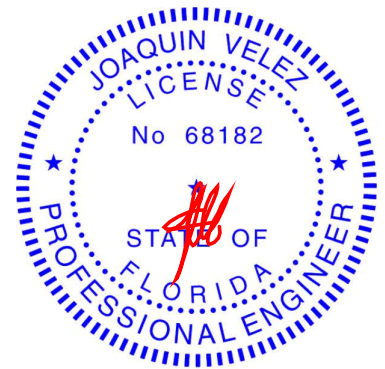
**REACTIONS.** (lb/size) 5=173/6-3-6, 2=62/6-3-6, 6=248/6-3-6  
Max Horz 2=48(LC 12)  
Max Uplift 5=91(LC 8), 2=-52(LC 12), 6=-73(LC 9)  
Max Grav 5=173(LC 1), 2=62(LC 1), 6=251(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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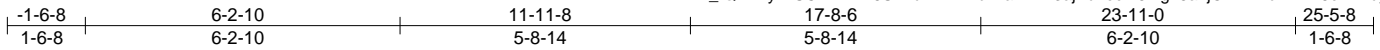
6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177743
2340302	T01	Common	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:20 2020 Page 1  
ID: \_fQV2AyxLSCLMmITf8SkYdzIHwN-brNaVEk23ajBd2ocM6MgLSaLjOTvBMbBZDT8eTzHdyX



Scale = 1:45.5

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.23 9-11 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.45 9-11 >627 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.01 8 n/a n/a				
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							
								Weight: 163 lb		FT = 20%	

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-9-7 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 12=1304/0-3-0, 8=1304/0-3-0  
Max Horz 12=-302(LC 10)  
Max Uplift 12=-547(LC 12), 8=-547(LC 13)  
Max Grav 12=1399(LC 19), 8=1341(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1952/766, 3-4=-2002/955, 4-5=-1896/955, 5-6=-1910/766, 2-12=-1481/683, 6-8=-1409/683  
BOT CHORD 11-12=-289/328, 10-11=-288/1131, 10-13=-288/1131, 13-14=-288/1131, 9-14=-288/1131  
WEBS 4-9=-526/1070, 5-9=-410/367, 4-11=-526/1135, 3-11=-410/367, 2-11=-478/1534, 6-9=-478/1609

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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) 12=547, 8=547.
- 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: 1-2=-54, 2-4=-54, 4-6=-54, 6-7=-54, 11-12=-20, 9-11=-80(F=-60), 8-9=-20



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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6904 Parke East Blvd.  
Tampa, FL 36610

Job 2340302	Truss T01G	Truss Type Common Supported Gable	Qty 1	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177744
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:21 2020 Page 1  
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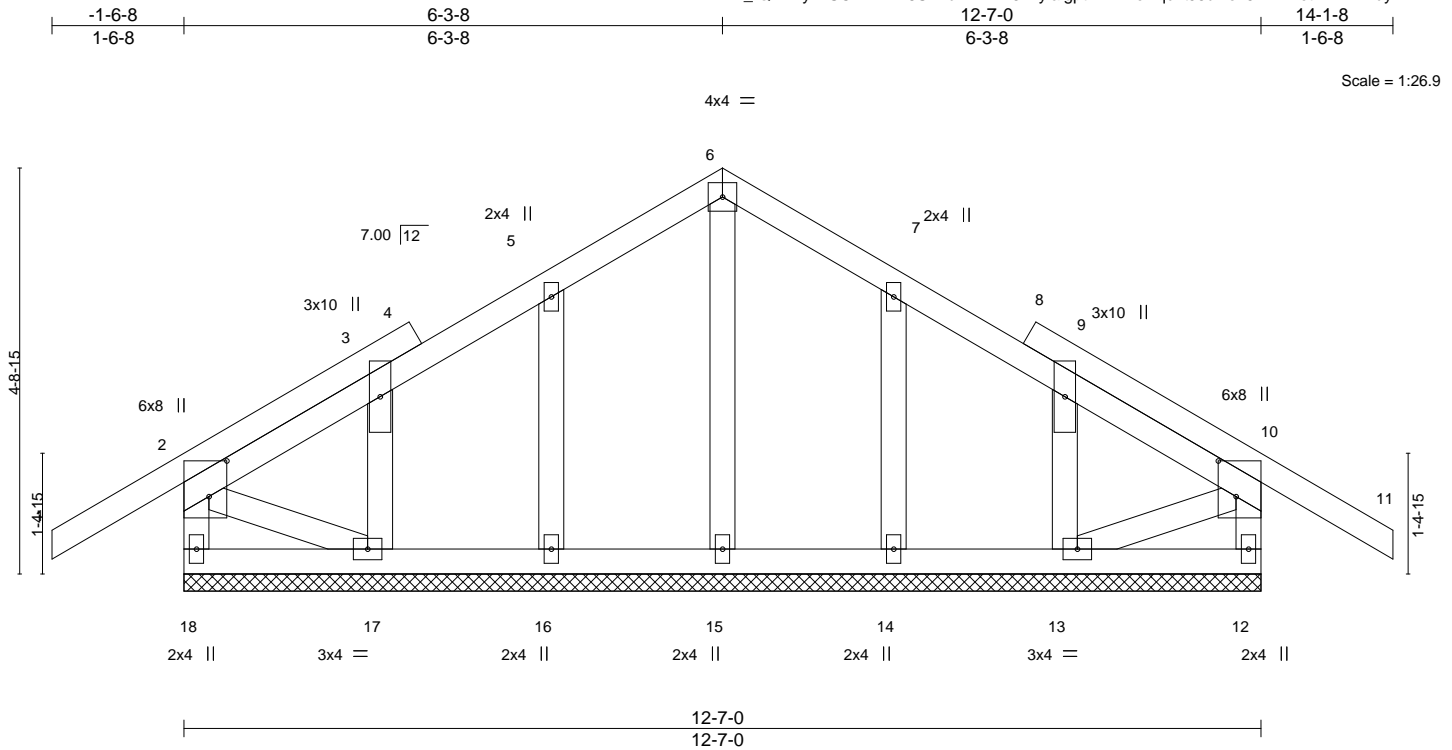


Plate Offsets (X,Y)-- [2:0-5-0,0-2-8], [10:0-5-0,0-2-8]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	-0.01 11 n/r 120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01 11 n/r 120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00 12 n/a n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-S				Weight: 84 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

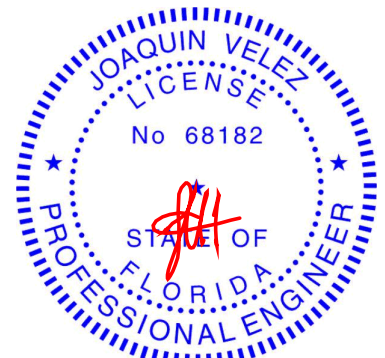
**REACTIONS.** All bearings 12-7-0.  
(lb) - Max Horz 18=182(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 18, 12 except 16=108(LC 12), 17=134(LC 12), 14=108(LC 13), 13=129(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 18, 12, 15, 16, 17, 14, 13

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 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) 18, 12 except (jt=lb) 16=108, 17=134, 14=108, 13=129.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177745
2340302	T02	Common	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:22 2020 Page 1  
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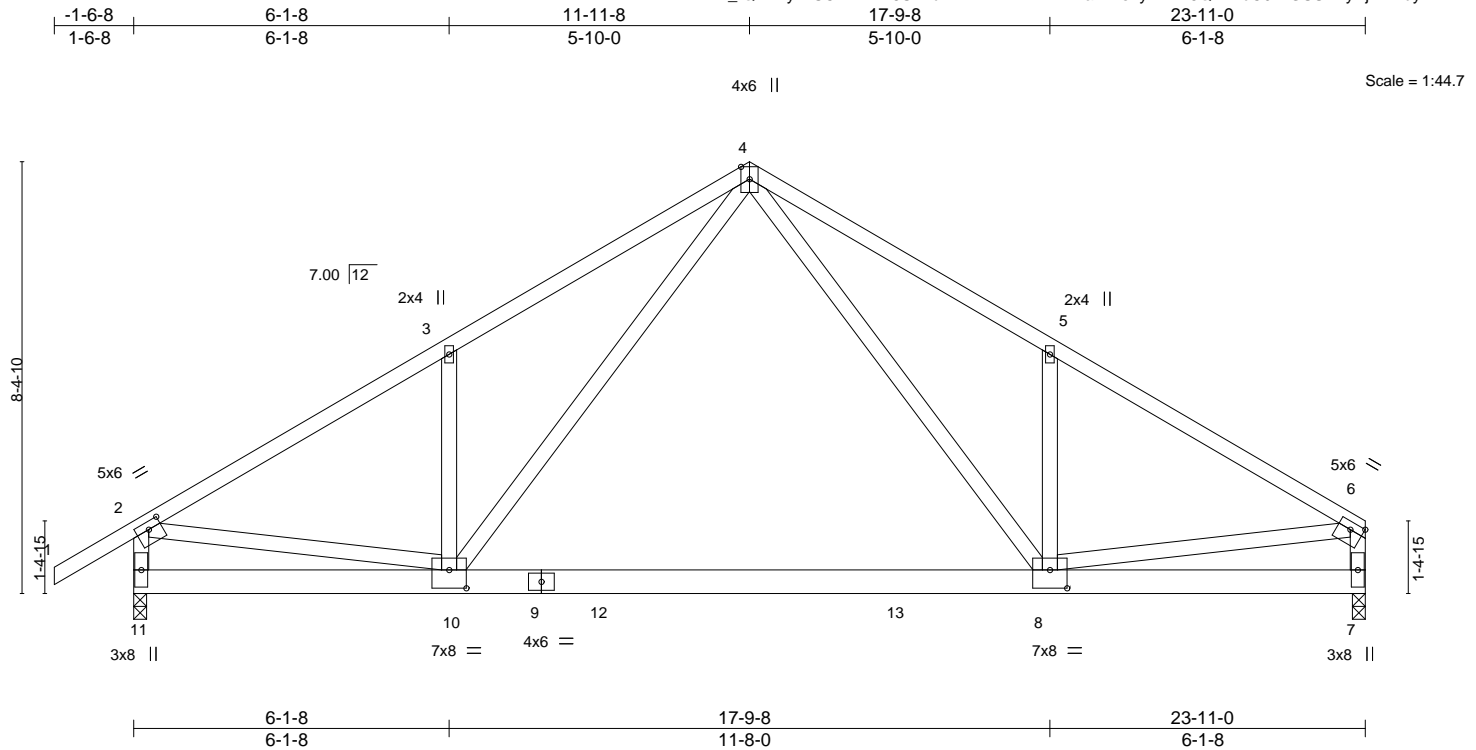


Plate Offsets (X,Y)--		[2:0-3-0,0-1-12], [6:Edge,0-1-12], [8:0-4-0,0-4-4], [10:0-4-0,0-4-4]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(LL) -0.24 8-10 >999 240
BCLL 0.0 *	Rep Stress Incr NO	WB 1.00	Vert(CT) -0.47 8-10 >599 180
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS	Horz(CT) 0.01 7 n/a n/a
		<b>PLATES</b> MT20	
		<b>GRIP</b> 244/190	
		Weight: 161 lb FT = 20%	

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

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

**REACTIONS.** (lb/size) 11=1313/0-3-0, 7=1215/0-3-0  
Max Horz 11=269(LC 9)  
Max Uplift 11=-549(LC 12), 7=-491(LC 13)  
Max Grav 11=1408(LC 19), 7=1257(LC 20)

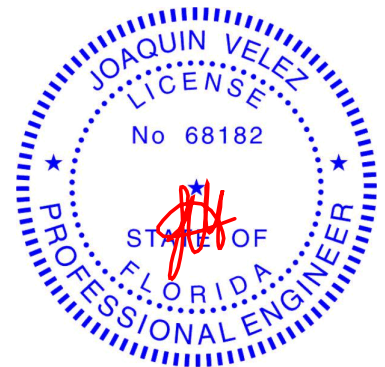
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1975/776, 3-4=-2028/965, 4-5=-1933/969, 5-6=-1936/772, 2-11=-1499/687,  
6-7=-1333/576  
BOT CHORD 10-11=-279/288, 9-10=-337/1112, 9-12=-337/1112, 12-13=-337/1112, 8-13=-337/1112  
WEBS 4-8=-542/1100, 5-8=-425/385, 4-10=-531/1150, 3-10=-411/368, 2-10=-493/1567,  
6-8=-518/1639

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=549, 7=491.
- 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: 1-2=-54, 2-4=-54, 4-6=-54, 10-11=-20, 8-10=-80(F=-60), 7-8=-20



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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6904 Parke East Blvd.  
Tampa, FL 36610

Job 2340302	Truss T02G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177746
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:22 2020 Page 1  
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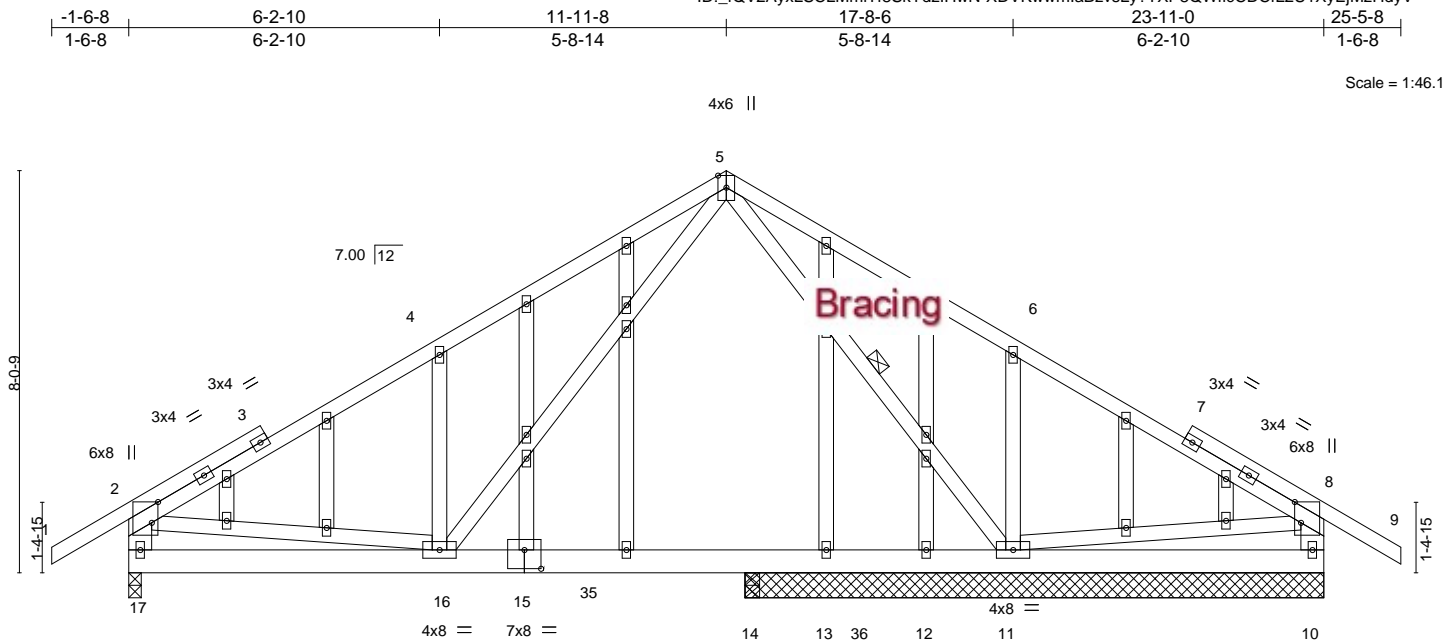


Plate Offsets (X,Y)--		[2:0-5-0,0-1-8], [8:0-5-0,0-1-8], [15:0-4-0,0-4-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.35	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.18	Vert(LL) -0.02 16 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Vert(CT) -0.03 16-17 >999 180
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS	Horz(CT) 0.01 10 n/a n/a
		Weight: 213 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" oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-11
2-17,8-10: 2x6 SP No.2	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 11-7-0 except (jt=length) 17=0-3-0, 14=0-3-8.  
(lb) - Max Horz 17=286(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 10, 13, 12, 14 except 17=308(LC 12), 11=432(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 13, 12 except 17=687(LC 1), 11=828(LC 1), 10=295(LC 24), 14=337(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-694/295, 3-4=-621/318, 4-5=-796/501, 2-17=-619/386  
BOT CHORD 16-17=-293/436, 15-16=-101/335, 15-35=-101/335, 14-35=-101/335, 13-14=-101/335, 13-36=-101/335, 12-36=-101/335, 11-12=-101/335  
WEBS 5-11=-479/226, 6-11=-405/356, 5-16=-374/593, 4-16=-403/357, 2-16=-28/301, 8-11=-318/264

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
  - 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2'-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" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 13, 12, 14 except (jt=lb) 17=308, 11=432.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177747
2340302	T03	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:23 2020 Page 1  
ID: fQV2AyxLSCLMmTf8SkYdzIhWn-?P2i7GnwLV6mUVXB1FwNzkCpEcVTOpodFBioFozHdyU

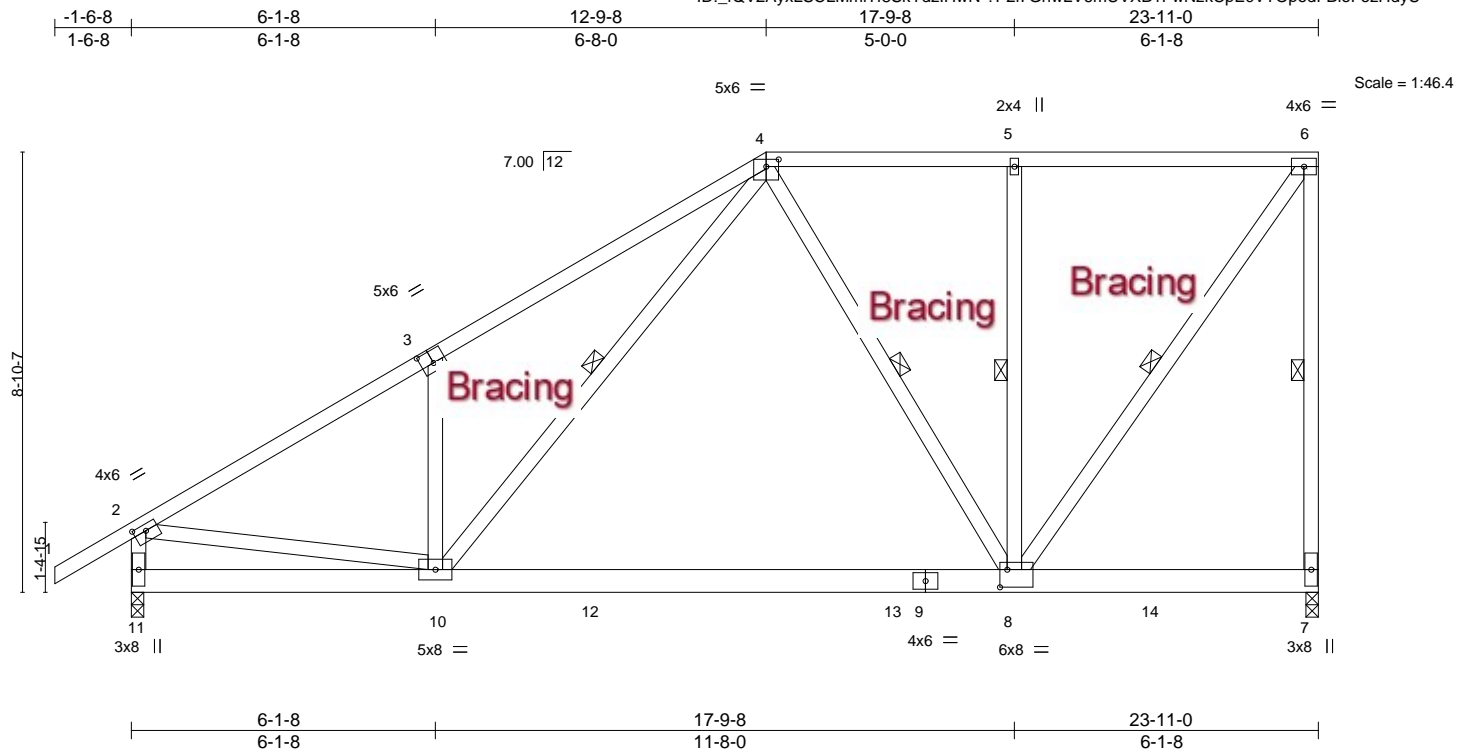


Plate Offsets (X,Y)--							
[2:0-3-0,0-1-8], [3:0-3-0,0-3-0], [4:0-3-0,0-1-12], [8:0-1-12,0-4-4]							
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.80	Vert(LL)	-0.24	8-10	>999
TCDL 7.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-0.46	8-10	>612
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.55	Horz(CT)	0.01	7	n/a
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS				
							Weight: 182 lb FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 6-7, 4-10, 4-8, 5-8, 6-8

#### REACTIONS.

(lb/size) 7=1219/0-3-0, 11=1314/0-3-0  
Max Horz 11=391(LC 12)  
Max Uplift 7=-554(LC 9), 11=-512(LC 12)  
Max Grav 7=1239(LC 2), 11=1398(LC 19)

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

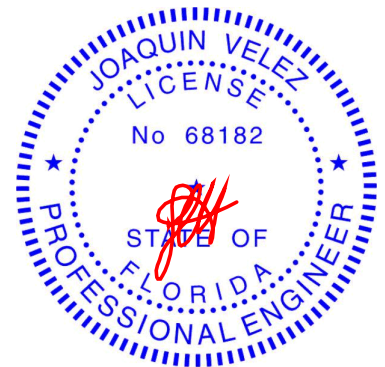
TOP CHORD 2-3=-1965/726, 3-4=-2030/929, 4-5=-840/425, 5-6=-840/425, 6-7=-1273/709,  
2-11=-1486/650  
BOT CHORD 10-11=-445/395, 10-12=-536/962, 12-13=-536/962, 9-13=-536/962, 8-9=-536/962  
WEBS 3-10=-460/403, 4-10=-588/1213, 4-8=-275/251, 5-8=-348/277, 6-8=-732/1459,  
2-10=-491/1587

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 7=554, 11=512.
- 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: 1-2=-54, 2-4=-54, 4-6=-54, 10-11=-20, 8-10=-80(F=-60), 7-8=-20



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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6904 Parke East Blvd.  
Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177748
2340302	T04	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:23 2020 Page 1  
ID: fQV2AyXLSClMmTf8SkYdzlHwN-7P2i7GnwLV6mUVXB1FwNzkCtucVeOjXdFBioFozHdyU

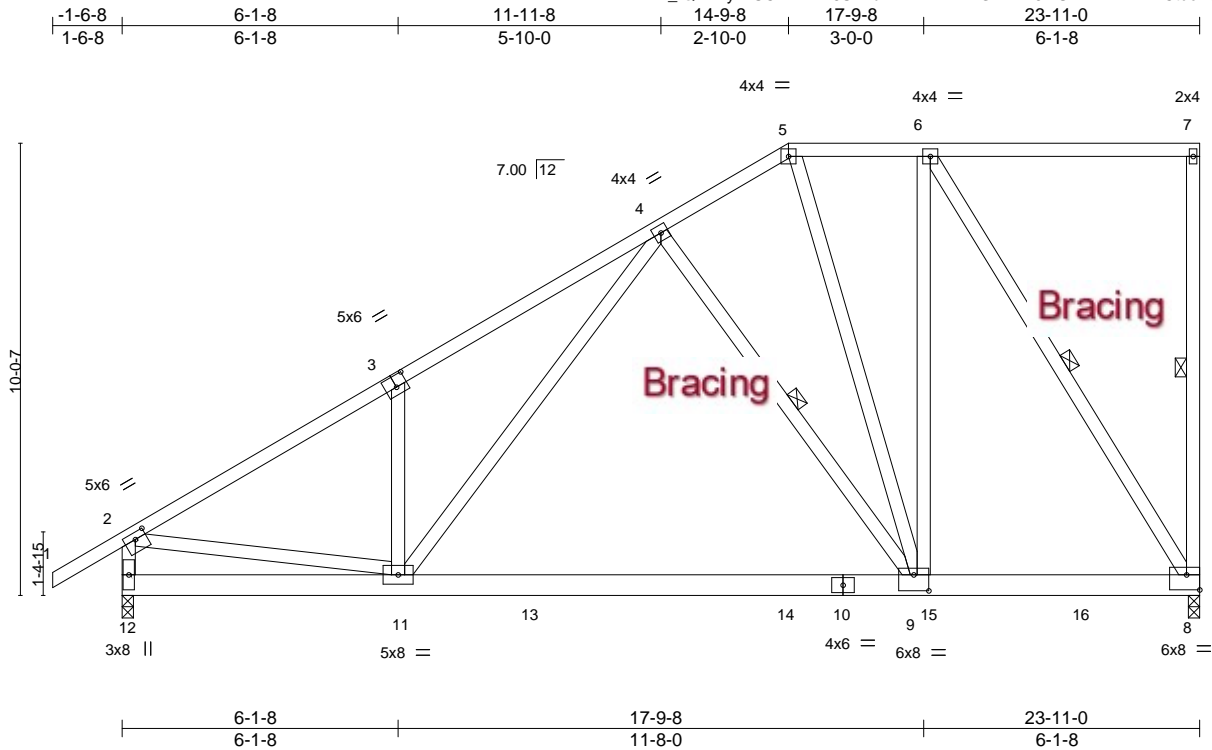


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-3-0,0-3-0], [8:Edge,0-4-0], [9:0-4-0,0-4-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.57	Vert(LL) -0.22	9-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.42	Vert(CT) -0.43	9-11	>653	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.95	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 200 lb	FT = 20%

#### LUMBER-

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

**REACTIONS.** (lb/size) 8=1212/0-3-0, 12=1312/0-3-0  
Max Horz 12=449(LC 12)  
Max Uplift 8=539(LC 9), 12=507(LC 12)  
Max Grav 8=1231(LC 19), 12=1431(LC 19)

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

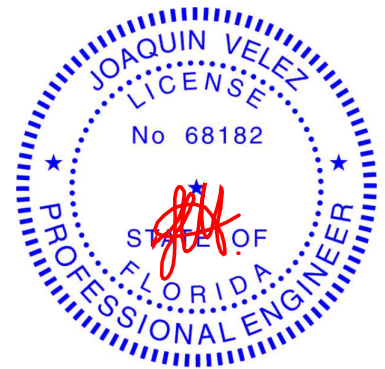
TOP CHORD 2-3=-1998/679, 3-4=-2035/856, 4-5=-843/380, 5-6=-793/387, 2-12=-1512/624  
BOT CHORD 11-12=-517/466, 11-13=-599/1108, 13-14=-599/1108, 10-14=-599/1108, 9-10=-599/1108,  
9-15=-381/773, 15-16=-381/773, 8-16=-381/773  
WEBS 3-11=-398/349, 4-11=-514/1090, 4-9=-729/468, 5-9=-158/378, 6-9=-397/1146,  
6-8=-1469/718, 2-11=-427/1581

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 8=539, 12=507.
- 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: 1-2=-54, 2-5=-54, 5-7=-54, 11-12=-20, 9-11=-80(F=-60), 8-9=-20



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

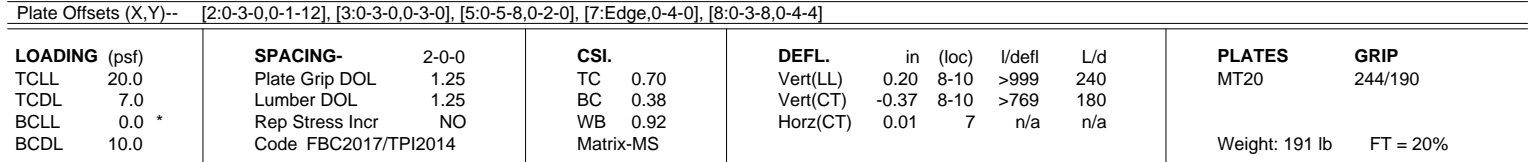
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Builders FirstSource, Lake City, FL 32055 Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:24 2020 Page 1  
ID: \_fQV2AyxLSCLMmiTf8SkYdzIHwN-Tcc4LcnY6oEc6f6NbyRcVxk0g?sW7A9nUrRLnEzHdyT



**REACTIONS.** (lb/size) 7=1182/0-3-0, 11=1301/0-3-0  
 Max Horz 11=507(LC 12)  
 Max Uplift 7=-559(LC 12), 11=-491(LC 12)  
 Max Grav 7=1268(LC 19), 11=1441(LC 19)

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=559, 11=491.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.**

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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177750
2340302	T06	Piggyback Base	1	1	Job Reference (optional)	

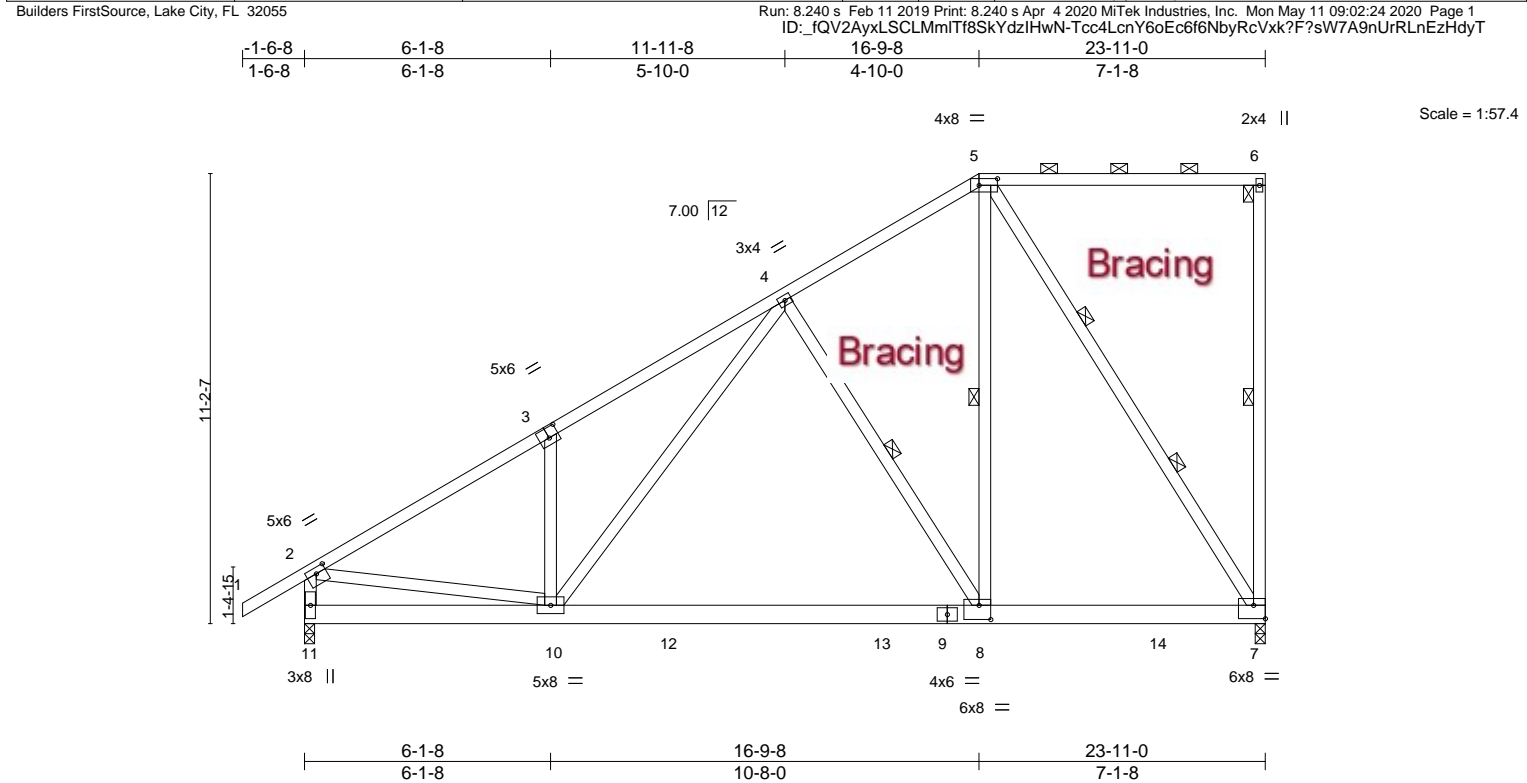


Plate Offsets (X,Y)--		[2:0-3-0,0-1-12], [3:0-3-0,0-3-0], [5:0-5-8,0-2-0], [7:Edge,0-4-0], [8:0-3-8,0-4-4]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d
TCDL 7.0	Plate Grip DOL 1.25	BC 0.38	Vert(LL) 0.20 8-10 >999 240
BCLL 0.0 *	Lumber DOL 1.25	WB 0.92	Vert(CT) -0.37 8-10 >769 180
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 7 n/a n/a
	Code FBC2017/TPI2014		
			<b>PLATES</b> MT20
			<b>GRIP</b> 244/190
			Weight: 191 lb FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP M 26	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	1 Row at midpt 6-7, 4-8, 5-8
5-7: 2x4 SP No.2	2 Rows at 1/3 pts 5-7

**REACTIONS.** (lb/size) 7=1182/0-3-0, 11=1301/0-3-0  
Max Horz 11=507(LC 12)  
Max Uplift 7=559(LC 12), 11=491(LC 12)  
Max Grav 7=1268(LC 19), 11=1441(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=1982/625, 3-4=2016/800, 4-5=938/365, 2-11=1500/589  
BOT CHORD 10-11=577/521, 10-12=610/1155, 12-13=610/1155, 9-13=610/1155, 8-9=610/1155, 8-14=376/791, 7-14=376/791  
WEBS 3-10=392/343, 4-10=501/1012, 4-8=726/492, 5-8=538/1486, 5-7=1457/685, 2-10=378/1549

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 (it=lb) 7=559, 11=491.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 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: 1-2=-54, 2-5=-54, 5-6=-54, 10-11=-20, 8-10=-80(F=-60), 7-8=-20



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020

Job 2340302	Truss T07	Truss Type Common	Qty 1	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T2017751
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:25 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SkYdzlHwN-yoATYyoBt6MTjpha9gyr29HFDp8ysm7wjVBvJgzHdyS

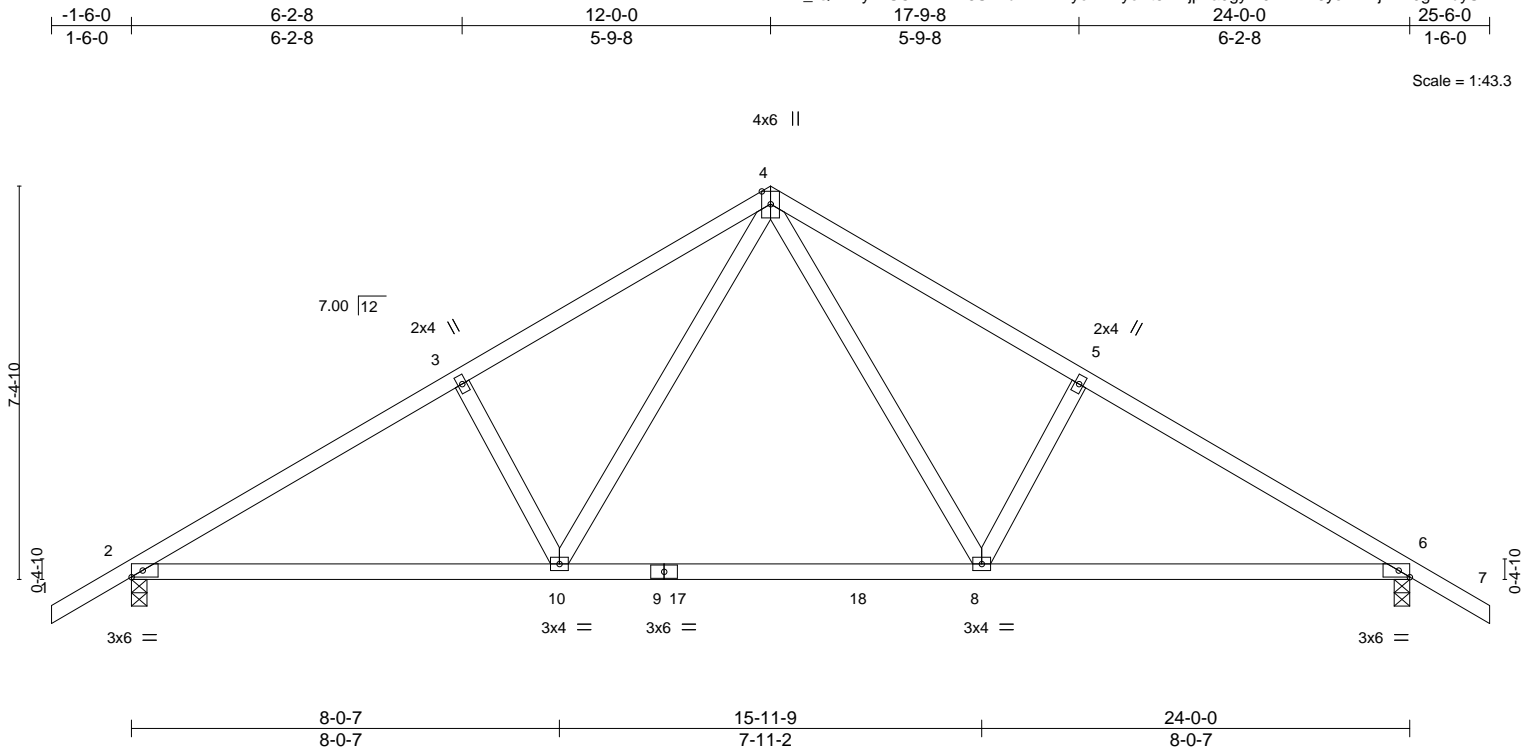


Plate Offsets (X,Y)-- [6:0-2-8,Edge]												
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d			<b>PLATES</b>	<b>GRIP</b>		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.17	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.24	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 117 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-5-6 oc bracing.

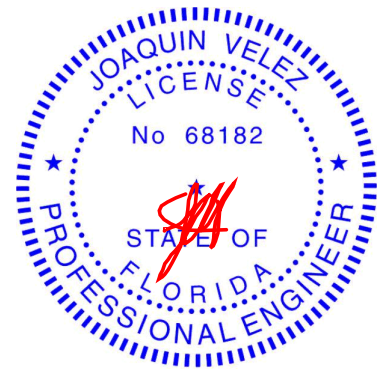
**REACTIONS.** (lb/size) 2=969/0-3-8, 6=969/0-3-8  
Max Horz 2=251(LC 11)  
Max Uplift 2=390(LC 12), 6=390(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1384/616, 3-4=-1326/656, 4-5=-1326/656, 5-6=-1385/616  
BOT CHORD 2-10=-471/1293, 9-10=-179/823, 9-17=-179/823, 17-18=-179/823, 8-18=-179/823,  
6-8=-404/1140  
WEBS 4-8=-289/629, 5-8=-391/328, 4-10=-289/628, 3-10=-391/328

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=390, 6=390.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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Tampa, FL 33610

Job 2340302	Truss T07G	Truss Type Common Supported Gable	Qty 1	Ply 1	IC CONST. - SUZIE HALL	T2017752
Builders FirstSource, Lake City, FL 32055			Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:25 2020 Page 1 ID: fQV2AyxLSCLMmTf8SkYdzIHwN-yoATYyoBt6MTjpha9gyr29HJ_PH3squwJVbVJgzHdyS			

-1-6-0	12-0-0	24-0-0	25-6-0
1-6-0	12-0-0	24-0-0	1-6-0

Scale = 1:45.4

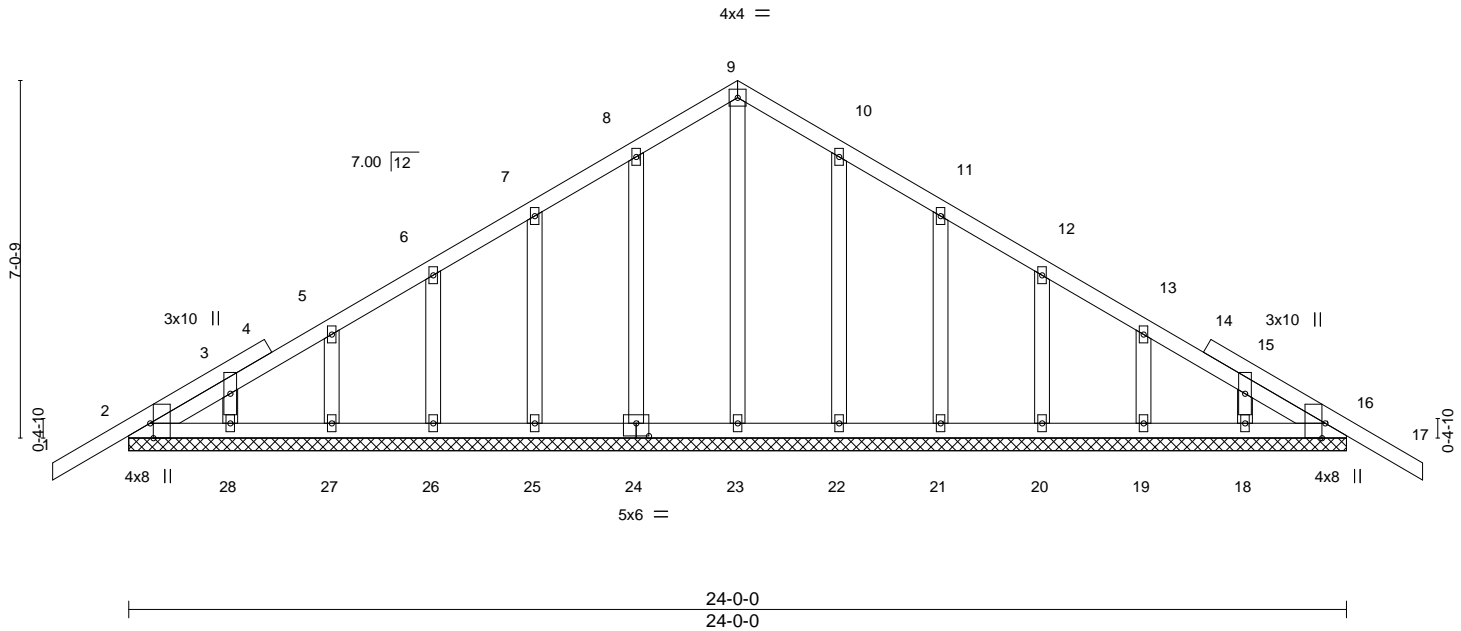


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [16:0-3-8,Edge], [24:0-3-0,0-3-0]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.15	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.04	Vert(LL) -0.01 17 n/r 120
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Vert(CT) -0.01 17 n/r 120
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S	Horz(CT) 0.01 16 n/a n/a
			<b>PLATES</b> MT20
			<b>GRIP</b> 244/190
			Weight: 145 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" oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

#### REACTIONS.

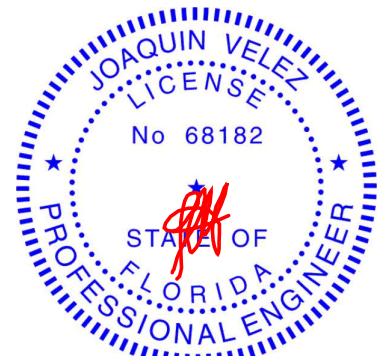
All bearings 24'-0".  
(lb) - Max Horz 2=240(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 27, 28, 18 except 24=106(LC 12), 25=106(LC 12), 26=106(LC 12), 22=104(LC 13), 21=107(LC 13), 20=105(LC 13), 19=100(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-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" tall by 2'-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, 16, 27, 28, 18 except (jt=lb) 24=106, 25=106, 26=106, 22=104, 21=107, 20=105, 19=100.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177753
2340302	T08	Roof Special	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:26 2020 Page 1  
ID: \_fQV2AyxLSCLMmITf8SkYdzlHwN-Q\_krmlppeQUKLzFmiNT4aMqQ3pP?bC63y9xSs7zHdyR

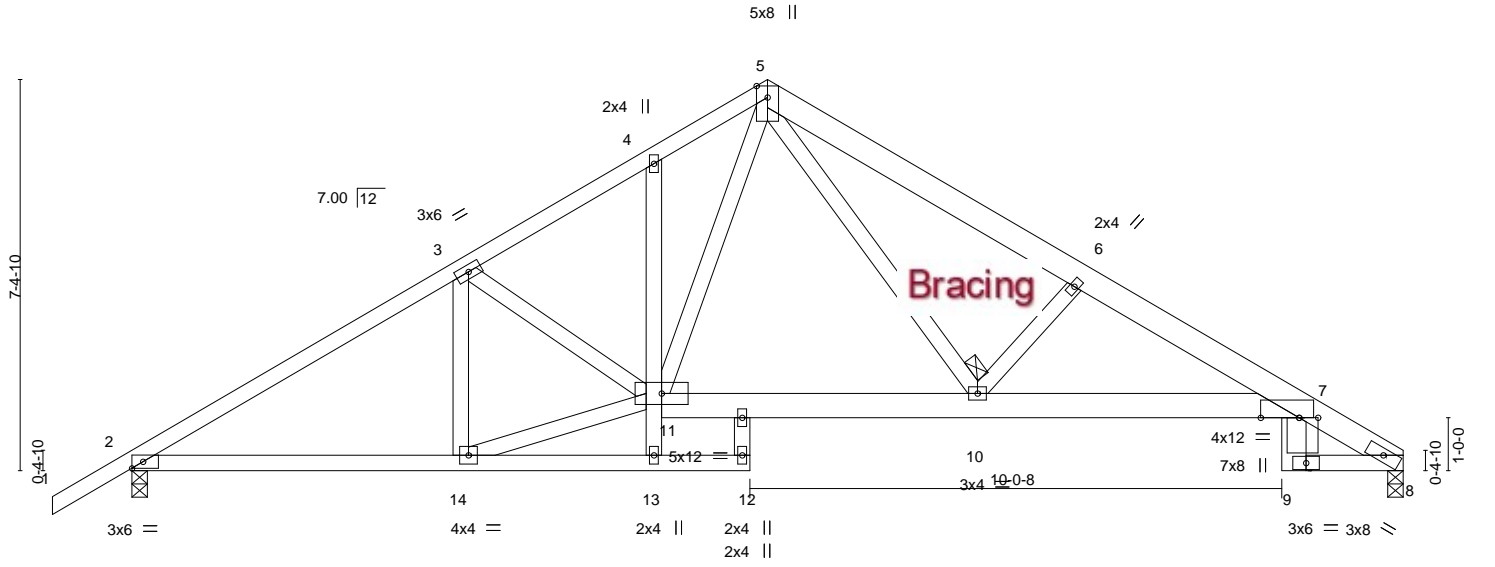
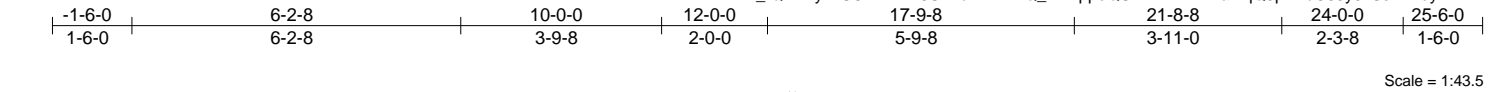


Plate Offsets (X,Y)--	[7:0-8-11,0-0-0], [7:0-0-0,0-4-5]
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LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.45	Vert(LL)	-0.14	7-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(CT)	-0.27	7-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT)	0.16	8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						Weight: 155 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*  
5-8: 2x6 SP M 26  
BOT CHORD 2x4 SP No.2 \*Except\*  
4-13: 2x4 SP No.3, 7-11,7-9: 2x6 SP No.2  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:  
10-0-0 oc bracing: 11-13  
JOINTS 1 Brace at Jt(s): 10

#### REACTIONS.

(lb/size) 8=902/0-3-8, 2=986/0-3-8  
Max Horz 2=242(LC 11)  
Max Uplift 8=327(LC 13), 2=383(LC 12)

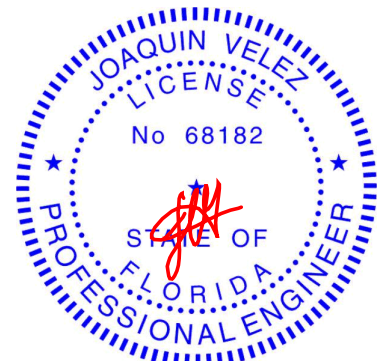
#### FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1431/599, 3-4=-1374/611, 4-5=-1403/670, 5-6=-1726/782, 6-7=-1901/817,  
7-18=-565/260  
BOT CHORD 2-14=-464/1215, 10-11=-214/907, 7-10=-652/1722  
WEBS 11-14=-448/1220, 5-11=-317/669, 5-10=-384/895, 6-10=-614/399

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=327, 2=383.

#### LOAD CASE(S) Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



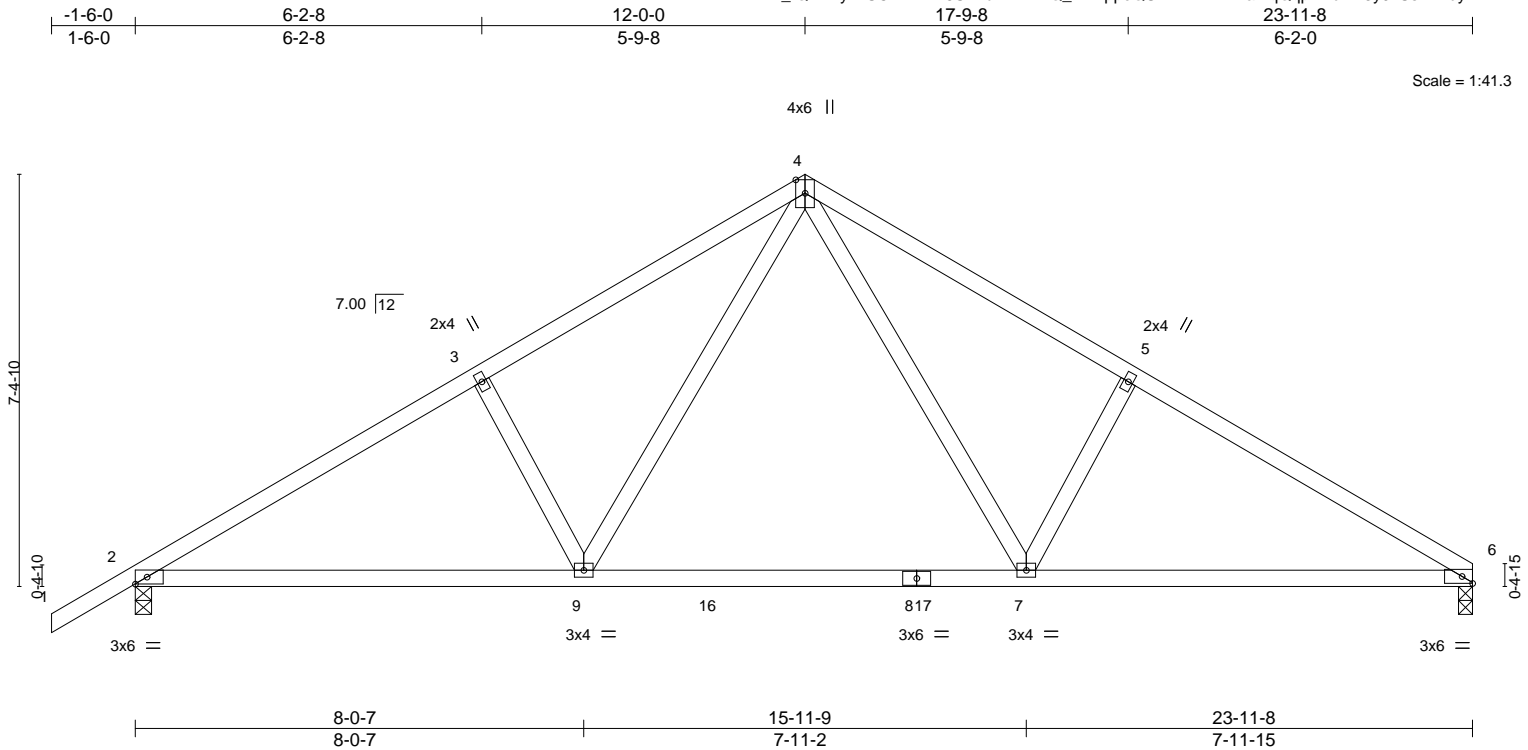
6904 Parke East Blvd.  
Tampa, FL 33610



Job 2340302	Truss T09	Truss Type Common	Qty 9	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177754
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:26 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SkYdzHwN-Q\_krmlppeQUKLzFmiNT4aMqQpTBbDB3y9xSs7zHdyR



8-0-7 8-0-7		15-11-9 7-11-2		23-11-8 7-11-15	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.62	Vert(LL) -0.17 7-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.38	Vert(CT) -0.24 7-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 6 n/a n/a		
	Code FBC2017/TPI2014			Weight: 115 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-3-6 oc bracing.

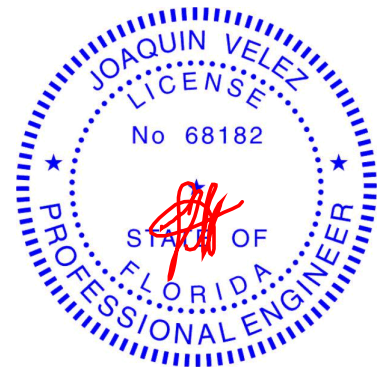
**REACTIONS.** (lb/size) 6=884/0-3-0, 2=970/0-3-8  
Max Horz 2=241(LC 9)  
Max Uplift 6=336(LC 13), 2=390(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1386/622, 3-4=-1328/662, 4-5=-1318/667, 5-6=-1374/627  
BOT CHORD 2-9=-491/1279, 9-16=-199/808, 16-17=-199/808, 8-17=-199/808, 7-8=-199/808,  
6-7=-451/1146  
WEBS 4-7=-297/634, 5-7=-384/333, 4-9=-288/628, 3-9=-391/328

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 6=336, 2=390.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

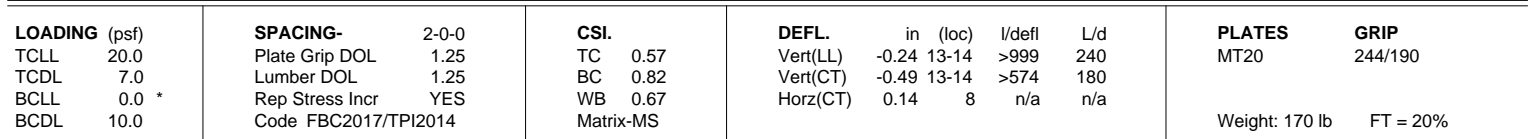
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610



Builders FirstSource, Lake City, FL 32055 Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:27 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SKYdzlHwN-uBIDzeqRPjCbZ6qyG4\_J7aMYvDmHKbqDAp9gOZzHdyQ



**REACTIONS.** (lb/size) 8=871/0-3-0, 14=969/0-3-0  
Max Horz 14=303(LC 12)  
Max Uplift 8=-403(LC 9), 14=-340(LC 12)

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

TOP CHORD 2-3=-256/151, 3-4=-944/444, 4-5=-1784/1022, 5-6=-1804/1031, 6-7=-1214/678,  
7-8=-821/481, 2-14=-317/242

BOT CHORD 13-14=-598/853, 5-11=-258/209, 10-11=-684/1238, 6-10=-600/421

WEBS 4-13=-523/368, 11-13=-601/1054, 4-11=-727/1278, 6-11=-393/643, 7-10=-784/1402,  
3-14=-932/390

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)  
8=403, 14=340.

LOAD CASE(S) Standard



May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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6904 Parke East Blvd.  
Tampa, FL 36610

Job 2340302	Truss T11	Truss Type Half Hip	Qty 1	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177756
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:28 2020 Page 1  
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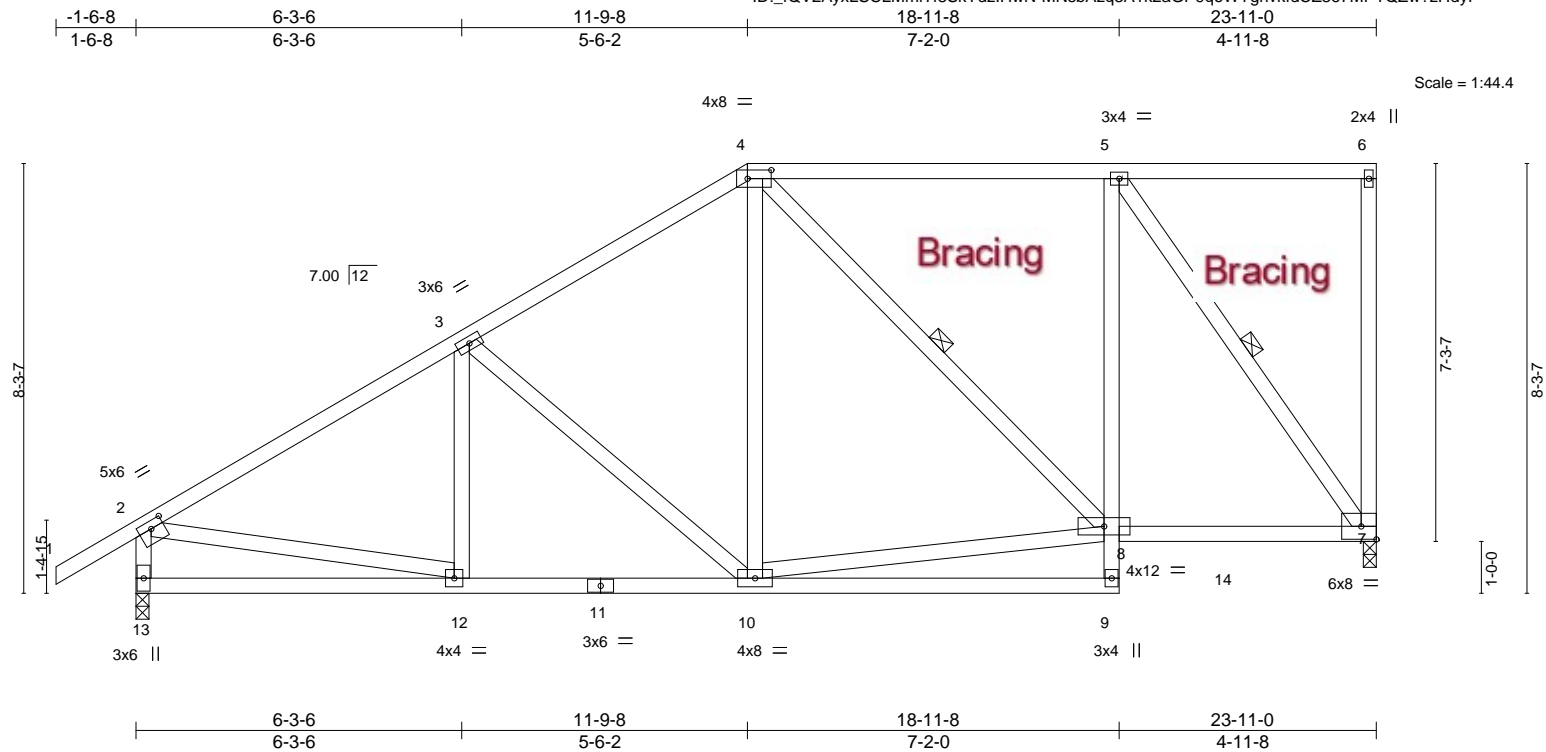


Plate Offsets (X,Y)--		[2:0-3-0,0-1-12], [4:0-5-8,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50	Vert(LL)	-0.07	9-10	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.15	9-10	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.02	7	n/a	n/a			
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS								
									Weight: 173 lb	FT = 20%	

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
5-9: 2x4 SP No.3  
WEBS 2x4 SP No.3

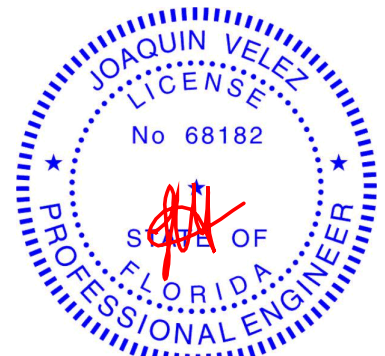
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-4-2 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-8-4 oc bracing.  
WEBS 1 Row at midpt 4-8, 5-7

**REACTIONS.** (lb/size) 7=871/0-3-0, 13=969/0-3-0  
Max Horz 13=361(LC 12)  
Max Uplift 7=394(LC 9), 13=345(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1086/424, 3-4=-848/398, 4-5=-523/303, 2-13=-908/460  
BOT CHORD 12-13=-444/436, 11-12=-593/930, 10-11=-593/930, 5-8=-131/419, 8-14=-300/520, 7-14=-300/520  
WEBS 3-10=-403/289, 4-10=-103/329, 8-10=-398/625, 4-8=-279/173, 5-7=-890/515, 2-12=-187/770

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) 7=394, 13=345.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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6904 Parke East Blvd.  
Tampa, FL 36610

Job 2340302	Truss T12	Truss Type Half Hip	Qty 1	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177757
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:28 2020 Page 1  
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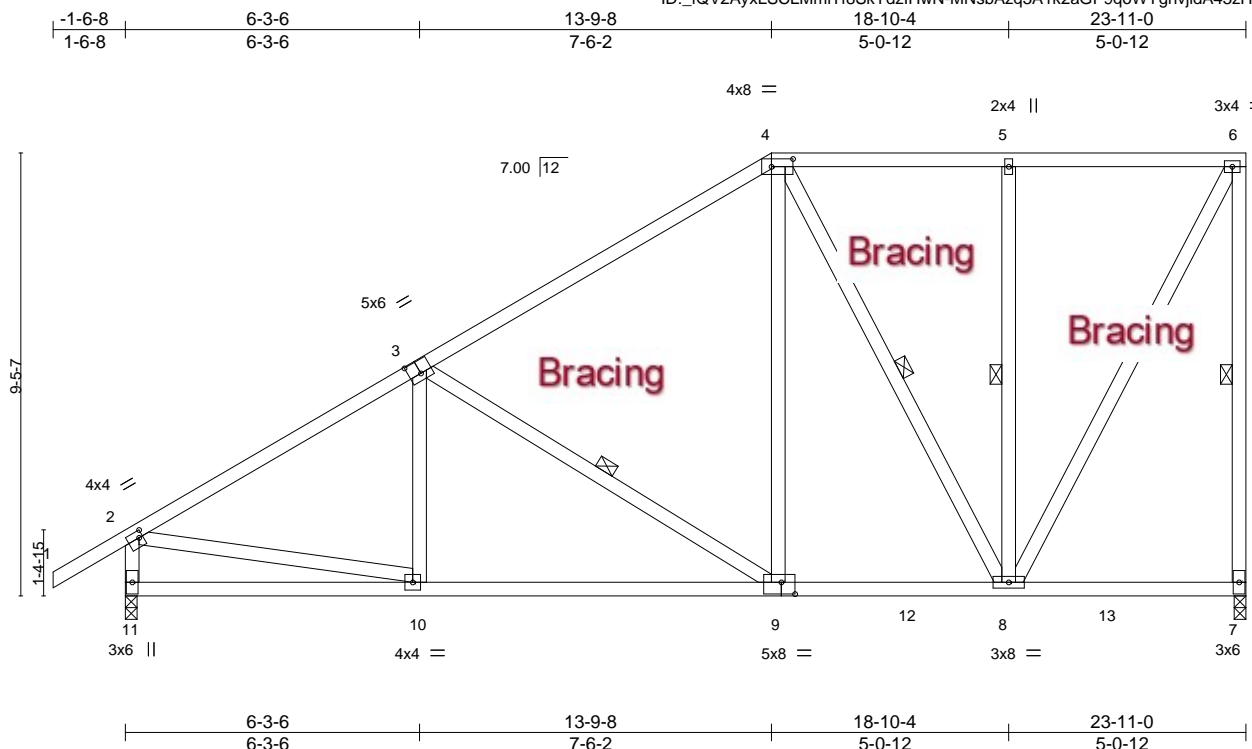


Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [3:0-3-0,0-3-4], [4:0-5-8,0-2-0], [9:0-3-8,0-3-0]													
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d				<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.56	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL 1.25		BC	0.53	Vert(CT)	-0.18	9-10	>999	180			
BCLL	0.0 *	Rep Stress Incr YES		WB	0.98	Horz(CT)	-0.02	7	n/a	n/a			
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 176 lb	FT = 20%	

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-5-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-7, 3-9, 4-8, 5-8

**REACTIONS.** (lb/size) 7=871/0-3-0, 11=969/0-3-0  
Max Horz 11=419(LC 12)  
Max Uplift 7=-383(LC 9), 11=-344(LC 12)  
Max Grav 7=884(LC 2), 11=969(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1110/399, 3-4=-763/313, 4-5=-387/228, 5-6=-387/228, 6-7=-825/509, 2-11=-916/434  
BOT CHORD 10-11=-465/433, 9-10=-637/1018, 9-12=-354/569, 8-12=-354/569  
WEBS 3-9=-542/370, 4-9=-154/435, 4-8=-459/278, 5-8=-314/254, 6-8=-478/809, 2-10=-211/845

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 7=383, 11=344.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177758
2340302	T13	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:28 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SkYdzlHwN-MNsbAq3A1k2aGP9qoWYgnvmd7H3?JMPTQZw?zHdyP

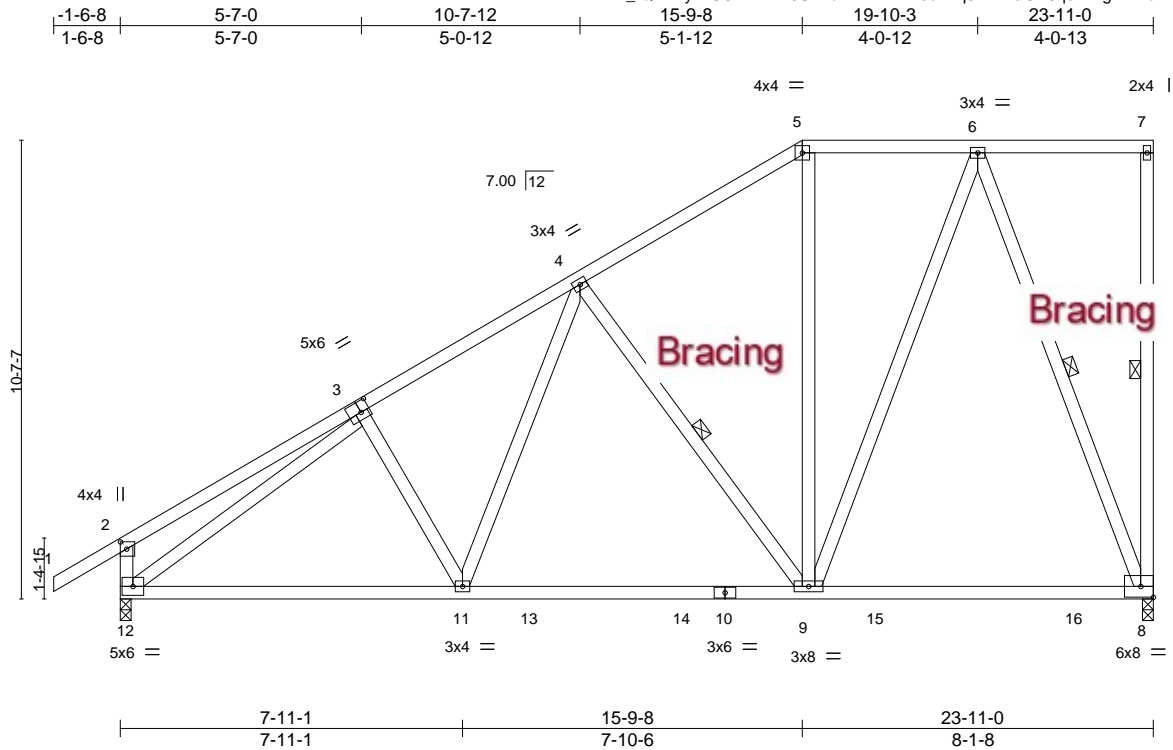


Plate Offsets (X,Y)--		[2:0-2-0,0-1-12], [3:0-2-8,0-3-0]							
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.17 8-9 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.28 8-9 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.02 8 n/a n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS				Weight: 182 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-3-8 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-8, 4-9, 6-8

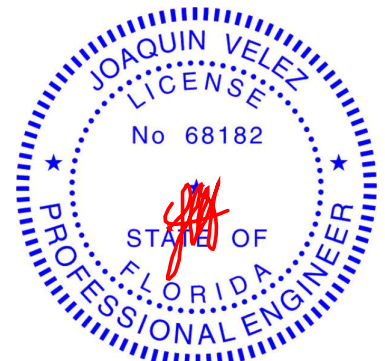
**REACTIONS.** (lb/size) 8=871/0-3-0, 12=969/0-3-0  
Max Horz 12=477(LC 12)  
Max Uplift 8=385(LC 12), 12=337(LC 12)  
Max Grav 8=918(LC 2), 12=1000(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-282/208, 3-4=-1066/396, 4-5=-629/266, 5-6=-505/283, 2-12=-355/287  
BOT CHORD 11-12=-655/1016, 11-13=-494/813, 13-14=-494/813, 10-14=-494/813, 9-10=-494/813, 9-15=-178/282, 15-16=-178/282, 8-16=-178/282  
WEBS 4-11=-166/360, 4-9=-550/387, 6-9=-311/670, 6-8=-775/500, 3-12=-954/204

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 8=385, 12=337.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

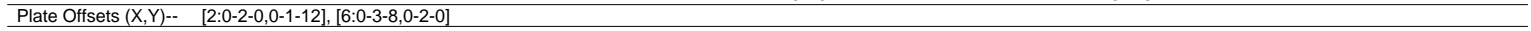
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Builders FirstSource, Lake City, FL 32055 Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:29 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SKYdzlHwN-gZQzOJrhlSvCQ\_LOV1nC?Ssr0R\_oSsWe796SSzHdyO

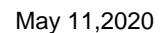


<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-11 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-1-0 oc bracing.
WEBS	2x4 SP No.3 *Except* 7-9: 2x4 SP No.2	WEBS	1 Row at midpt                      7-8, 5-9, 6-9, 7-9

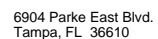
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=280/217, 3-4=1107/322, 4-5=1100/344, 5-6=522/169, 6-7=400/223, 7-8=833/545, 2-12=357/295
BOT CHORD	11-12=687/1054, 11-13=530/860, 10-13=530/860, 9-10=530/860
WEBS	5-11=137/395, 5-9=653/454, 7-9=486/879, 3-12=1012/144

LOAD CASE(S) Standard



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Job 2340302	Truss T15	Truss Type Piggyback Base	Qty 2	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177760
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:29 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SkYdzIHwN-qZQzOJrhxLsvCQ\_LOV1nC?SwW0RS0XKWe796SSzHdyO

1-6-0	5-5-4	11-3-12	16-10-0	22-0-0	27-6-4	33-4-12	38-10-0
1-6-0	5-5-4	5-10-8	5-6-4	5-2-0	5-6-4	5-10-8	5-5-4

Scale = 1:68.3

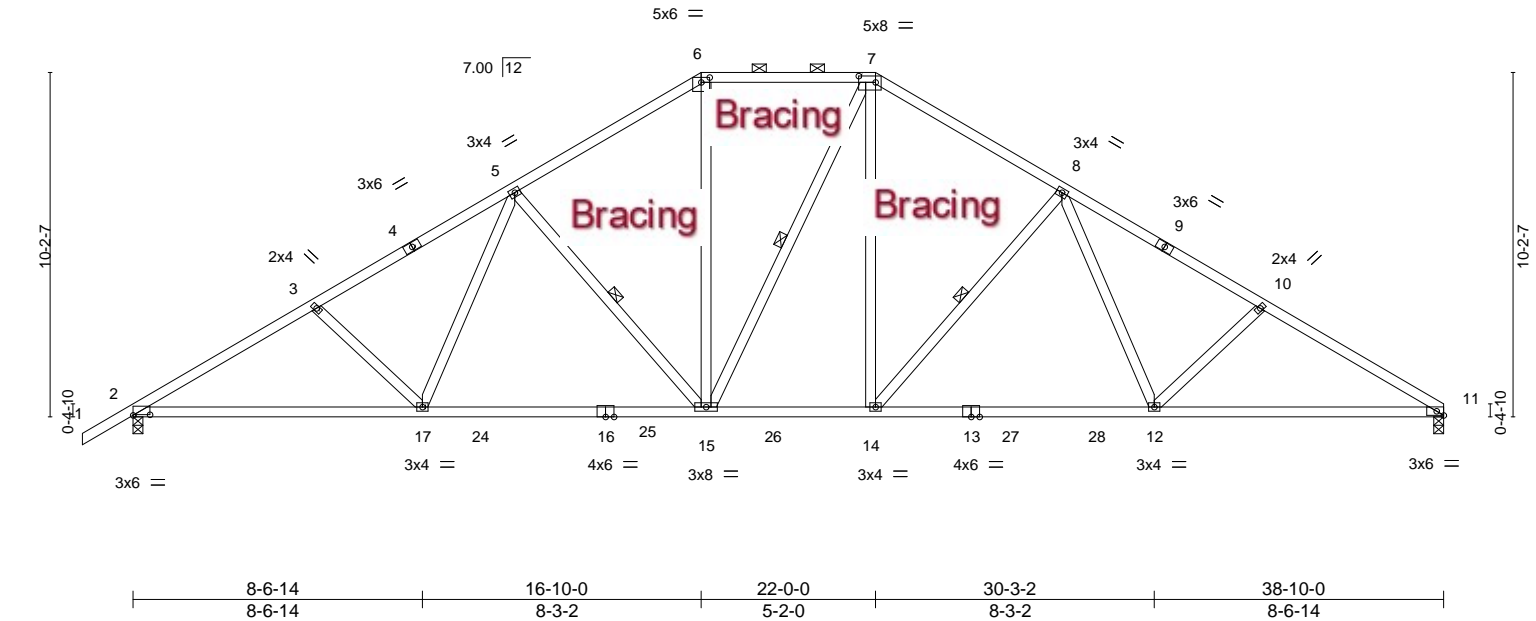


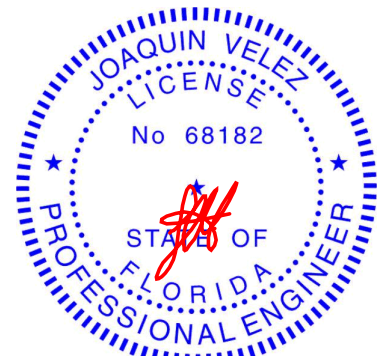
Plate Offsets (X,Y)--		[2:0-6-0,0-0-3], [6:0-3-0,0-1-12], [7:0-6-0,0-2-4], [11:0-2-8,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	-0.25 12-14	>999	240
TCCL 7.0	Lumber DOL	1.25	BC 0.84	Vert(CT)	-0.44 12-14	>999	180
BCCL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.11 11	n/a	n/a
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS				
				<b>PLATES</b>	<b>GRIP</b>		
				MT20	244/190		
				Weight: 229 lb		FT = 20%	

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-2 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-6-6 max.): 6-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-2-4 oc bracing.
	WEBS 1 Row at midpt 5-15, 7-15, 8-14
<b>REACTIONS.</b> (lb/size) 2=1519/0-3-8, 11=1435/0-3-8	
Max Horz 2=332(LC 9)	
Max Uplift 2=578(LC 12), 11=525(LC 13)	

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2471/1129, 3-4=-2265/1070, 4-5=-2185/1084, 5-6=-1693/926, 6-7=-1469/860, 7-8=-1699/926, 8-9=-2203/1092, 9-10=-2276/1079, 10-11=-2471/1140
BOT CHORD 2-17=-891/2276, 17-24=-646/1867, 24-25=-646/1867, 16-25=-646/1867, 15-16=-646/1867, 15-26=-398/1415, 14-26=-398/1415, 13-14=-650/1742, 13-27=-650/1742, 27-28=-650/1742, 12-28=-650/1742, 11-12=-903/2099
WEBS 3-17=-353/287, 5-17=-160/500, 5-15=-657/424, 6-15=-261/640, 7-14=-287/733, 8-14=-663/429, 8-12=-171/512, 10-12=-348/295

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 (it=lb) 2=578, 11=525.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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6904 Parke East Blvd.  
Tampa, FL 33610



Job 2340302	Truss T15G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177761
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:30 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SkYdzIHwN-lmzMBfsJie\_mqaZXxDY0IC\_9jQzeX4nfsnvg?uzHdyN

1-6-0	17-4-15	21-5-1	38-10-0
1-6-0	17-4-15	4-0-2	17-4-15

Scale = 1:74.0

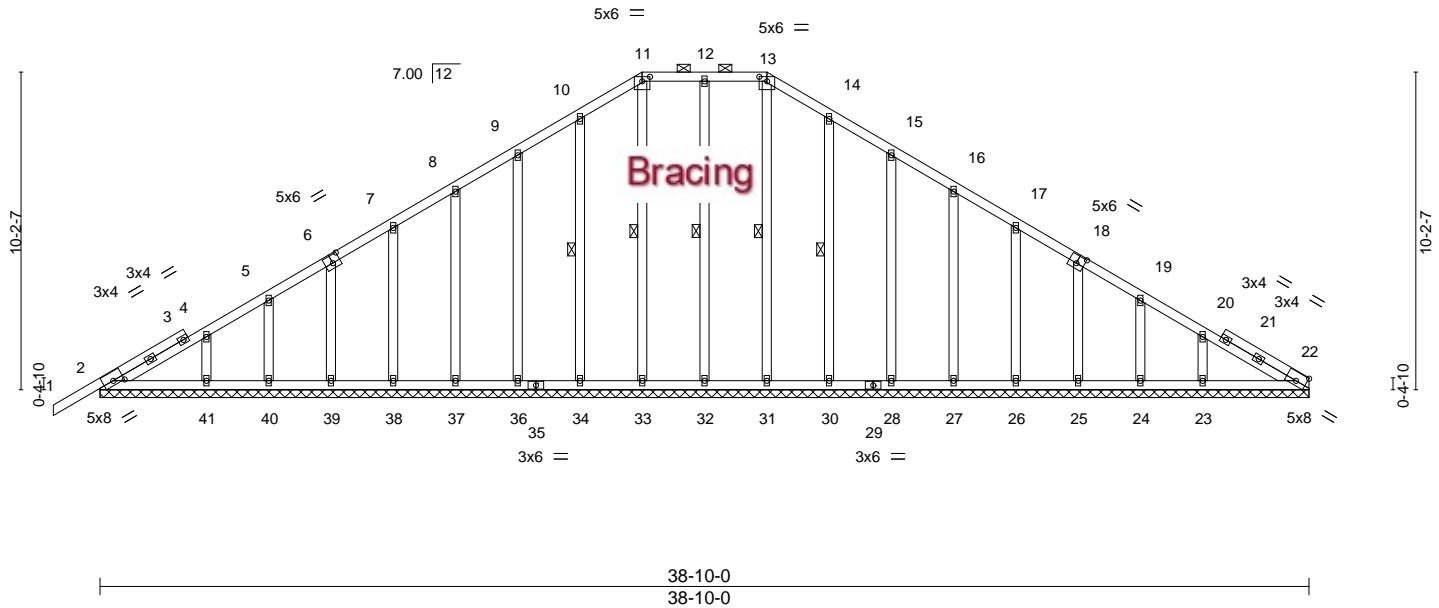


Plate Offsets (X,Y)--	[2:0-4-1,0-1-12], [6:0-3-0,0-3-0], [11:0-3-0,0-1-12], [13:0-3-0,0-1-12], [18:0-3-0,0-3-0], [22:Edge,0-3-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.15	Vert(LL) 0.00	1	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01	22	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S					Weight: 281 lb	FT = 20%

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

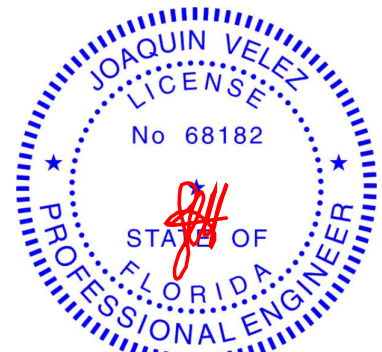
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-13.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 12-32, 11-33, 10-34, 13-31, 14-30

**REACTIONS.** All bearings 38-10-0.  
(lb) - Max Horz 2=332(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 32, 33, 31, 24 except 34=106(LC 12), 36=106(LC 12), 37=104(LC 12), 38=105(LC 12), 39=104(LC 12), 40=104(LC 12), 41=109(LC 12), 30=104(LC 13), 28=107(LC 13), 27=104(LC 13), 26=105(LC 13), 25=106(LC 13), 23=138(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 22 except 23=251(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=275/238, 3-4=267/251, 9-10=219/284, 10-11=273/322, 11-12=251/302, 12-13=251/302, 13-14=273/322, 14-15=219/259

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 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, 32, 33, 31, 24 except (jt=lb) 34=106, 36=106, 37=104, 38=105, 39=104, 40=104, 41=109, 30=104, 28=107, 27=104, 26=105, 25=106, 23=138.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

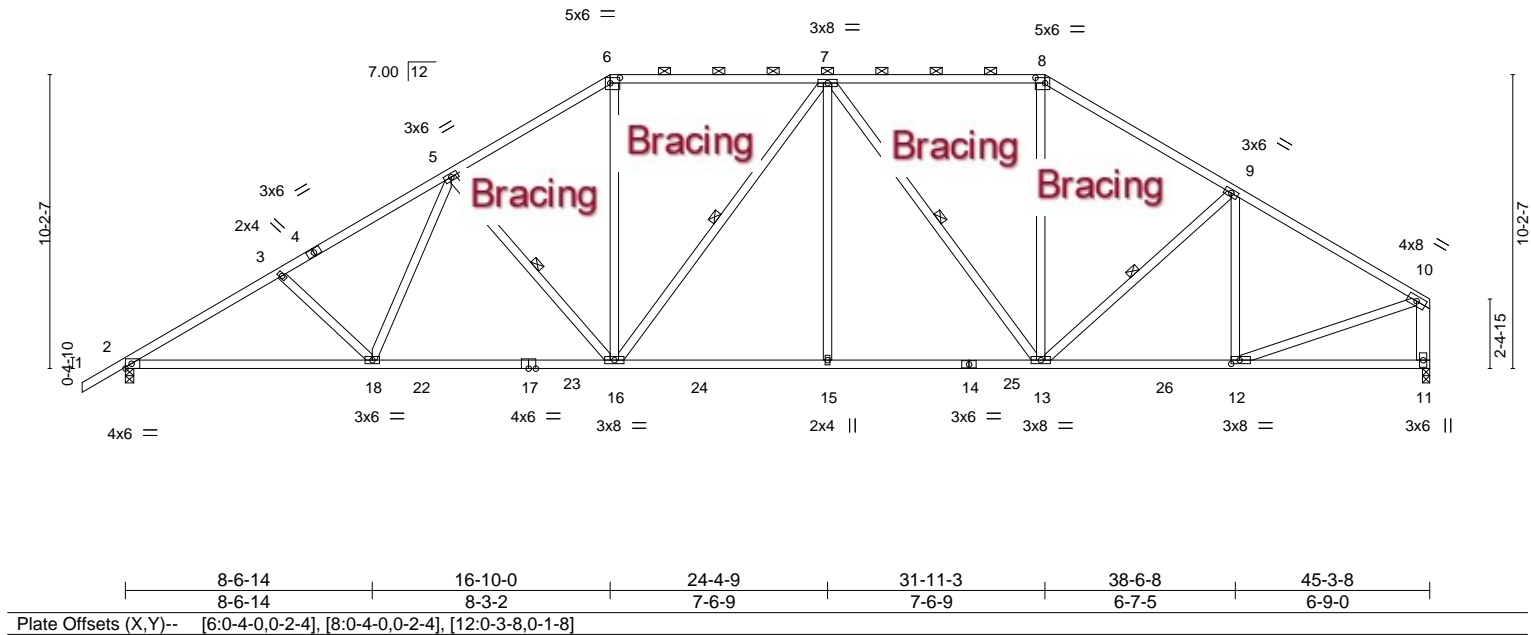
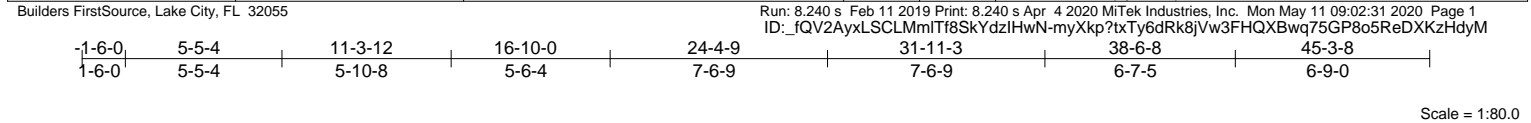
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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6904 Parke East Blvd.  
Tampa, FL 33610

Job 2340302	Truss T16	Truss Type Piggyback Base	Qty 6	Ply 1	IC CONST. - SUZIE HALL	T20177762
Builders FirstSource, Lake City, FL 32055			Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:31 2020 Page 1 ID: _fQV2AyxLSCLMmITf8SkYdzlHwN-myXkp?txTy6dRk8jVw3FHQXBwq75GP8o5ReDXKzHdyM			



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.76	Vert(LL) -0.27	16-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(CT) -0.46	16-18	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.13	11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 289 lb	FT = 20%

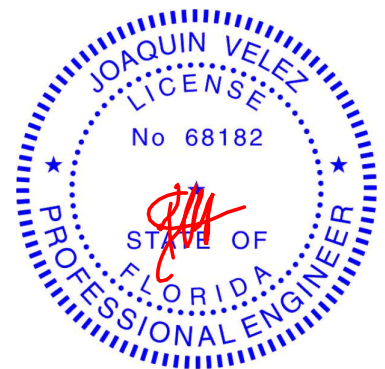
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-12 max.): 6-8.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-5-1 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-16, 7-16, 7-13, 9-13
10-11: 2x6 SP No.2	

**REACTIONS.** (lb/size) 2=1750/0-3-8, 11=1666/0-3-0  
Max Horz 2=324(LC 9)  
Max Uplift 2=634(LC 12), 11=532(LC 13)  
Max Grav 2=1750(LC 1), 11=1675(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2934/1354, 3-4=-2769/1287, 4-5=-2706/1310, 5-6=-2222/1154, 6-7=-1872/1060, 7-8=-1655/966, 8-9=-1987/1034, 9-10=-1951/909, 10-11=-1616/783  
BOT CHORD 2-18=-1186/2555, 18-22=-943/2181, 22-23=-943/2181, 17-23=-943/2181, 16-17=-943/2181, 16-24=-770/2032, 15-24=-770/2032, 15-25=-770/2032, 14-25=-770/2032, 13-14=-770/2032, 13-26=-693/1629, 12-26=-693/1629  
WEBS 3-18=-351/286, 5-18=-160/488, 5-16=-649/423, 6-16=-344/836, 7-16=-388/321, 7-15=0/409, 7-13=-707/371, 8-13=-264/688, 9-13=-255/238, 9-12=-388/268, 10-12=-690/1660

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 (it=lb) 2=634, 11=532.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020

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6904 Parke East Blvd.  
Tampa, FL 36610

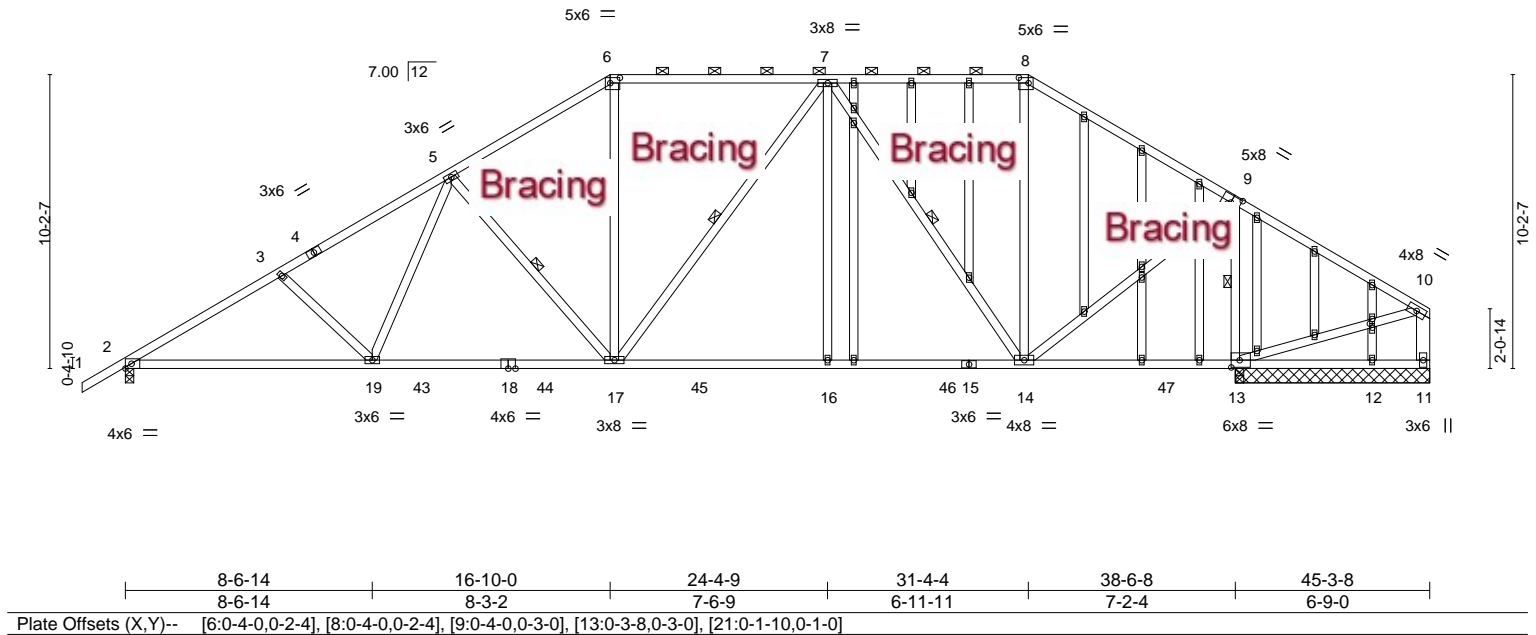
Job 2340302	Truss T16G	Truss Type Piggyback Base	Qty 1	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177763
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:32 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SkYdzIHwN-E8560LueEGEU3ujw3eaUqd3NLEUy?pNyK5Om3mzHdyL

-1-6-0	5-5-4	11-3-12	16-10-0	24-4-9	31-4-4	38-6-8	45-3-8
1-6-0	5-5-4	5-10-8	5-6-4	7-6-9	6-11-11	7-2-4	6-9-0

Scale = 1:80.0



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 0.65	Vert(LL)	-0.21 17-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	-0.36 17-19	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.07 11	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight: 363 lb	FT = 20%

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

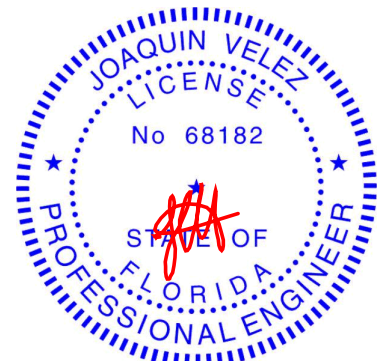
**REACTIONS.** All bearings 6-9-0 except (jt=length) 2=0-3-8.  
(lb) - Max Horz 2=325(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) except 2=543(LC 12), 13=639(LC 13), 11=390(LC 25)  
Max Grav All reactions 250 lb or less at joint(s) 11, 12 except 2=1433(LC 1), 13=2243(LC 2), 13=2170(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=2303/1060, 3-4=2126/991, 4-5=2062/1014, 5-6=1571/854, 6-7=1306/799, 7-8=665/505, 8-9=849/500, 9-10=261/641, 10-11=178/402  
BOT CHORD 2-19=917/2083, 19-43=670/1672, 18-43=670/1672, 18-44=670/1672, 17-44=670/1672, 17-45=449/1215, 16-45=449/1215, 16-46=449/1215, 15-46=449/1215, 14-15=449/1215, 14-47=479/276, 13-47=479/276  
WEBS 3-19=358/288, 5-19=163/495, 5-17=651/424, 6-17=189/503, 7-17=185/339, 7-16=0/391, 7-14=1015/442, 9-14=517/1414, 9-13=1889/996, 10-13=535/349

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 543 lb uplift at joint 2, 639 lb uplift at joint 13 and 390 lb uplift at joint 11.

Continued on page 2



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177763
2340302	T16G	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:32 2020 Page 2  
ID:\_fQV2AyxLSCLMmITf8SkYdziHwN-E8560LuaEGEU3ujw3eaUqd3NLEUy?pNyK5Om3mzHdyL

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

**LOAD CASE(S)** Standard

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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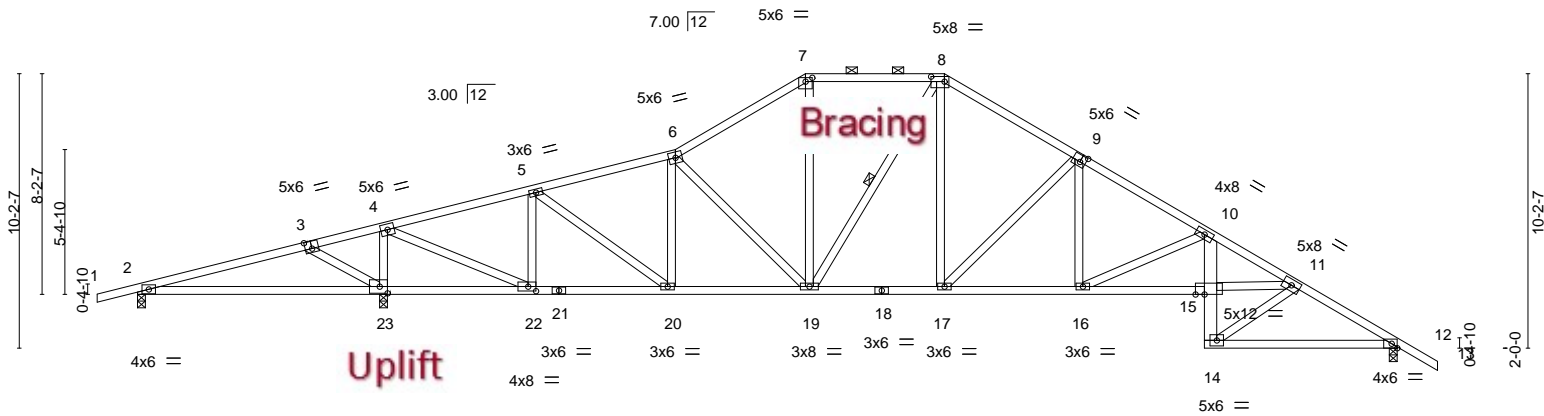
Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177764
2340302	T17	Piggyback Base	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:33 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SkYdzlHwN-jLfUEhuC?ZMLh116dL5jMrcYgeodkF95Zl7KcDzHdyK

-1-6-0	6-5-0	9-1-12	14-8-0	20-0-0	24-10-0	30-0-0	35-0-0	39-8-0	43-0-8	46-10-0	48-4-0
1-6-0	6-5-0	2-8-12	5-6-4	5-4-0	4-10-0	5-2-0	5-0-0	4-8-0	3-4-8	3-9-8	1-6-0

Scale = 1:85.7



	9-1-12	14-8-0	20-0-0	24-10-0	30-0-0	35-0-0	39-8-0	46-10-0
	9-1-12	5-6-4	5-4-0	4-10-0	5-2-0	5-0-0	4-8-0	7-2-0
Plate Offsets (X,Y)--	[3:0-3-0,0-3-4],	[7:0-3-0,0-1-12],	[8:0-6-0,0-2-4],	[9:0-2-8,0-3-0],	[15:0-4-0,0-0-0],	[22:0-3-8,0-2-0],	[23:0-3-8,0-3-0]	

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.68	Vert(LL)	0.27 23-26	>400	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(CT)	-0.46 15-16	>978	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.94	Horz(CT)	0.21 12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 277 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (4-6-4 max.): 7-8.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied or 4-11-5 oc bracing.
11-15: 2x4 SP No.2	WEBS 1 Row at midpt 8-19

**REACTIONS.** (lb/size) 2=90/0-3-8, 12=1395/0-3-8, 23=2142/0-3-8  
Max Horz 2=323(LC 11)  
Max Uplift 2=286(LC 8), 12=568(LC 13), 23=817(LC 12)  
Max Grav 2=165(LC 23), 12=1395(LC 1), 23=2142(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-221/877, 3-4=-409/1218, 4-5=-1155/657, 5-6=-1785/965, 6-7=-1676/917,  
7-8=-1402/855, 8-9=-1774/946, 9-10=-2503/1187, 10-11=-3854/1723, 11-12=-2266/1075  
BOT CHORD 2-23=-906/422, 22-23=-1176/605, 21-22=-377/1088, 20-21=-377/1088, 19-20=-600/1703,  
18-19=-379/1478, 17-18=-379/1478, 16-17=-737/2128, 15-16=-1416/3559,  
14-15=-465/1163, 10-15=-418/1122, 12-14=-822/1913  
WEBS 3-23=-443/465, 4-23=-1705/796, 4-22=-1061/2465, 5-22=-908/519, 5-20=-278/747,  
6-20=-327/176, 6-19=-478/359, 7-19=-252/554, 8-19=-279/138, 8-17=-310/785,  
9-17=-968/497, 9-16=-249/697, 10-16=-1575/745, 11-15=-1200/3017, 11-14=-1967/864

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 286 lb uplift at joint 2, 568 lb uplift at joint 12 and 817 lb uplift at joint 23.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020

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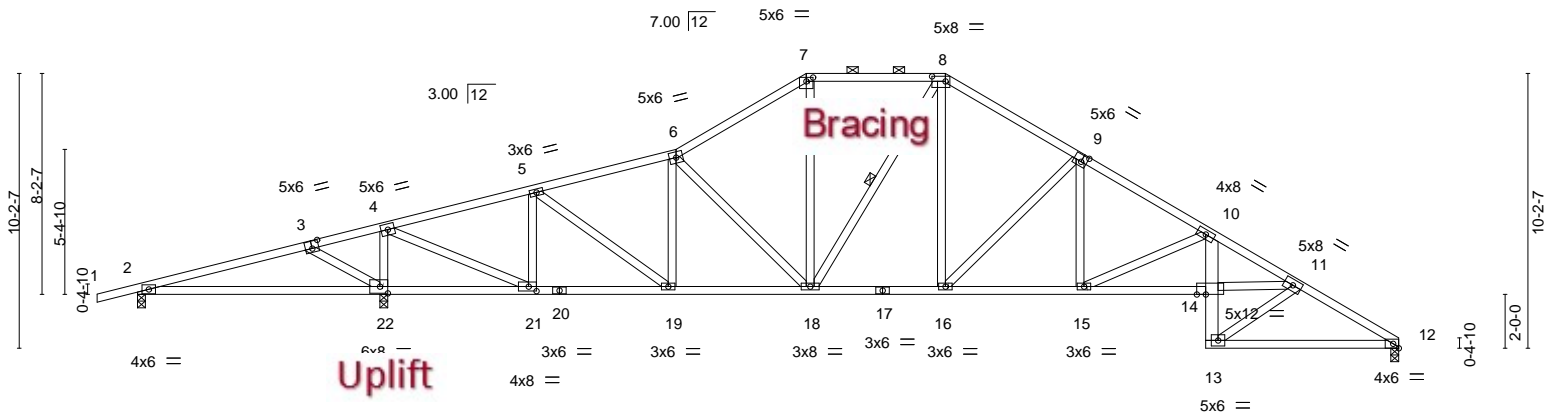
Job 2340302	Truss T18	Truss Type Piggyback Base	Qty 2	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T2017765
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:34 2020 Page 1  
ID: fQV2AyL SCLMmITt8SkYdzlHwN-BXDsr1vqmtUCIBtA3dyv29jQ18nTiNFnPtt8fzHdyJ

-1-6-0	6-5-0	9-1-12	14-8-0	20-0-0	24-10-0	30-0-0	35-0-0	39-8-0	43-0-8	46-10-0
1-6-0	6-5-0	2-8-12	5-6-4	5-4-0	4-10-0	5-2-0	5-0-0	4-8-0	3-4-8	3-9-8

Scale = 1:85.6



	9-1-12	14-8-0	20-0-0	24-10-0	30-0-0	35-0-0	39-8-0	46-10-0
	9-1-12	5-6-4	5-4-0	4-10-0	5-2-0	5-0-0	4-8-0	7-2-0
Plate Offsets (X,Y)--	[3:0-3-0,0-3-4],	[7:0-3-0,0-1-12],	[8:0-6-0,0-2-4],	[9:0-2-8,0-3-0],	[14:0-4-0,0-0-0],	[21:0-3-8,0-2-0],	[22:0-3-8,0-3-0]	

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.68	Vert(LL)	0.27	22-25	>400	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.90	Vert(CT)	-0.46	14-15	>973		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.21	12	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 275 lb	FT = 20%

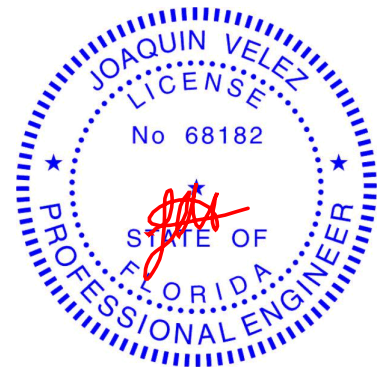
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-1 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (4-6-3 max.): 7-8.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied or 4-10-2 oc bracing.
11-14: 2x4 SP No.2	WEBS 1 Row at midpt 8-18

**REACTIONS.** (lb/size) 2=89/0-3-8, 12=1313/0-3-8, 22=2145/0-3-8  
Max Horz 2=314(LC 11)  
Max Uplift 2=282(LC 8), 12=511(LC 13), 22=824(LC 12)  
Max Grav 2=164(LC 23), 12=1313(LC 1), 22=2145(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-238/881, 3-4=-441/1223, 4-5=-1156/633, 5-6=-1787/957, 6-7=-1679/919,  
7-8=-1405/856, 8-9=-1779/951, 9-10=-2512/1201, 10-11=-3886/1765, 11-12=-2290/1087  
BOT CHORD 2-22=-909/418, 21-22=-1180/601, 20-21=-394/1088, 19-20=-394/1088, 18-19=-632/1705,  
17-18=-419/1482, 16-17=-419/1482, 15-16=-784/2136, 14-15=-1492/3582,  
13-14=-496/1181, 10-14=-448/1139, 12-13=-872/1939  
WEBS 3-22=-443/467, 4-22=-1708/808, 4-21=-1081/2469, 5-21=-910/528, 5-19=-288/750,  
6-19=-328/182, 6-18=-478/347, 7-18=-253/555, 8-18=-282/144, 8-16=-318/790,  
9-16=-960/508, 9-15=-261/703, 10-15=-1591/777, 11-14=-1261/3030, 11-13=-1993/915

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 282 lb uplift at joint 2, 511 lb uplift at joint 12 and 824 lb uplift at joint 22.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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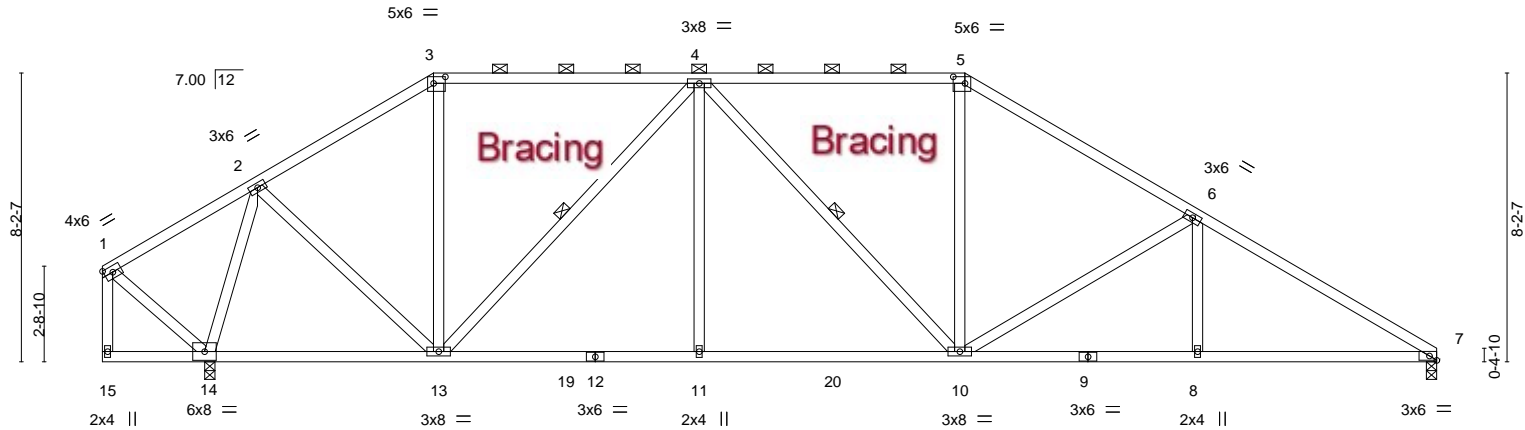
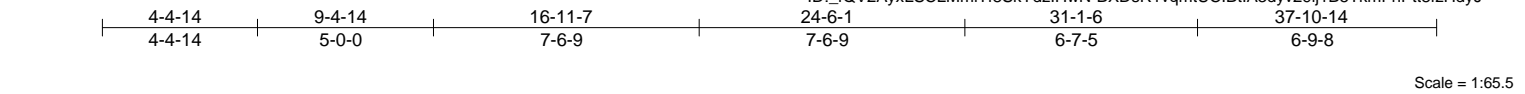


6904 Parke East Blvd.  
Tampa, FL 33610

Job 2340302	Truss T19	Truss Type Piggyback Base	Qty 10	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177766
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:34 2020 Page 1  
ID: fQV2AyxLSCLMmIT8SkYdzlHwN-BXDsr1vqmtUCIBtA3dyv29ij1B5TkFnPt8fzHdyJ



3-0-10	9-4-14	16-11-7	24-6-1	31-1-6	37-10-14
3-0-10	6-4-4	7-6-9	7-6-9	6-7-5	6-9-8

Plate Offsets (X,Y)-- [3:0-4-0,0-2-4], [5:0-4-0,0-2-4], [7:0-2-8,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.68	Vert(LL) 0.20 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.79	Vert(CT) -0.24 10-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 7 n/a n/a		
	Code FBC2017/TPI2014			Weight: 226 lb	FT = 20%

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

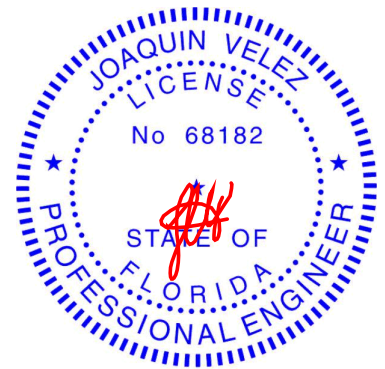
**REACTIONS.** (lb/size) 7=1282/0-3-8, 14=1512/0-3-8  
Max Horz 14=-241(LC 8)  
Max Uplift 7=-737(LC 8), 14=-710(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1059/1200, 3-4=-857/1099, 4-5=-1359/1640, 5-6=-1665/1807, 6-7=-2173/2248  
BOT CHORD 13-14=-255/400, 13-19=-1306/1433, 12-19=-1306/1433, 11-12=-1306/1433, 11-20=-1306/1433, 10-20=-1306/1433, 9-10=-1845/1812, 8-9=-1845/1812, 7-8=-1845/1812  
WEBS 2-14=-1386/1383, 2-13=-743/761, 3-13=-372/289, 4-13=-865/842, 4-11=-289/405, 4-10=-255/258, 5-10=-654/502, 6-10=-611/681, 6-8=-279/275

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 737 lb uplift at joint 7 and 710 lb uplift at joint 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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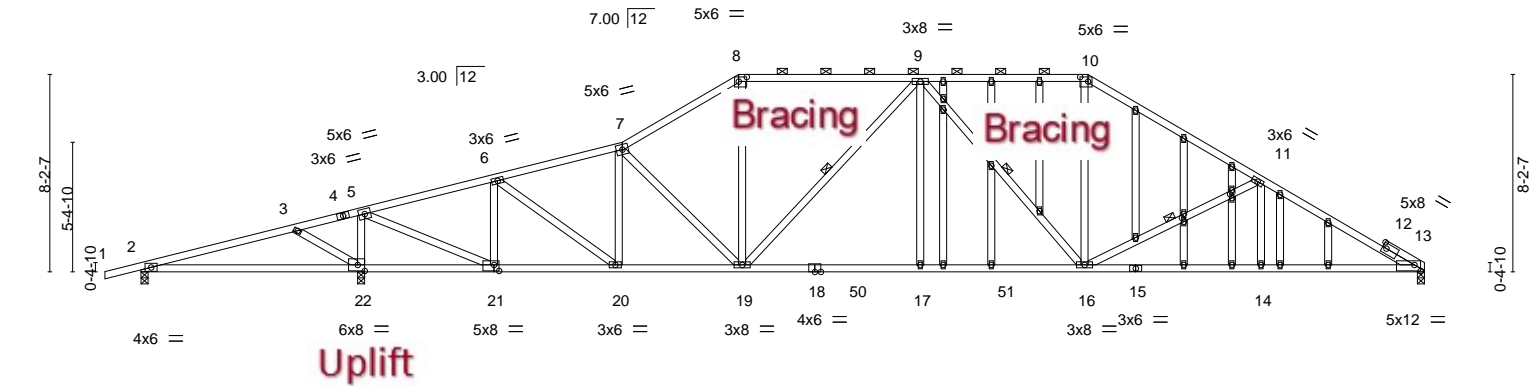
Job 2340302	Truss T19G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177767
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:36 2020 Page 1  
ID: fQV2AyxLSCLMmITf8SkYdzlHwN-fjnFeNwSWBc3wLRVkm8BSGhqeRUXCBoO03cQg4zHdyI

-1-6-0	6-6-0	9-1-12	14-8-0	20-0-0	24-10-0	32-4-9	39-4-4	46-6-8	53-4-0
1-6-0	6-6-0	2-7-12	5-6-4	5-4-0	4-10-0	7-6-9	6-11-11	7-2-4	6-9-8

Scale: 1/8"=1'



	9-1-12	14-8-0	20-0-0	24-10-0	32-4-9	39-4-4	46-6-8	53-4-0
	9-1-12	5-6-4	5-4-0	4-10-0	7-6-9	6-11-11	7-2-4	6-9-8
Plate Offsets (X,Y)--	[8:0-4-0,0-2-4], [10:0-4-0,0-2-4], [13:0-3-2,0-3-0], [21:0-2-8,0-3-0], [22:0-3-8,0-3-0], [29:0-1-15,0-1-0], [32:0-1-15,0-1-0]							

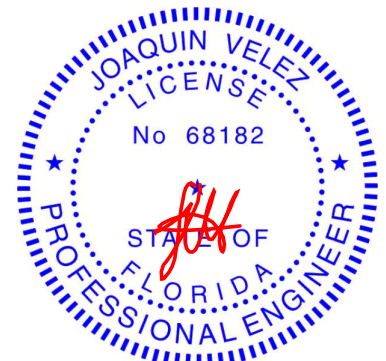
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.90	Vert(LL) 0.27	22-49	>407	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.86	Vert(CT) -0.45	17-19	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.10	13	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 357 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* 10-13: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-0-12 max.): 8-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-11-6 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-21: 2x4 SP No.2	WEBS 1 Row at midpt 9-19, 9-16, 11-16
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) 13=1560/0-3-8, 2=90/0-3-8, 22=2367/0-3-8  
Max Horz 2=277(LC 9)  
Max Uplift 13=-528(LC 13), 2=-248(LC 8), 22=-962(LC 8)  
Max Grav 13=1560(LC 1), 2=124(LC 23), 22=2367(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-272/864, 3-4=-532/1187, 4-5=-528/1221, 5-6=-1497/765, 6-7=-2273/1187,  
7-8=-2197/1173, 8-9=-1860/1080, 9-10=-1863/1068, 10-11=-2257/1145,  
11-12=-2862/1350, 12-13=-2681/1228  
BOT CHORD 2-22=-806/302, 21-22=-1176/589, 20-21=-619/1419, 19-20=-954/2180, 18-19=-845/2124,  
18-50=-845/2124, 17-50=-845/2124, 17-51=-845/2124, 16-51=-845/2124,  
15-16=-1102/2476, 14-15=-1102/2476, 13-14=-1102/2476  
WEBS 3-22=-448/476, 5-22=-1940/963, 5-21=-1313/2825, 6-21=-1048/620, 6-20=-405/923,  
7-20=-440/247, 7-19=-490/349, 8-19=-345/781, 9-19=-556/244, 9-17=0/389,  
9-16=-569/338, 10-16=-323/786, 11-16=-799/477, 11-14=0/301

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

Continued on page 2

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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177767
2340302	T19G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:36 2020 Page 2  
ID: \_fQV2AyxLSCLMmITf8SkYdzIHwN-7wLdsjx4HUKvYV0hITfQ\_TE?Orqmxe2YFjM\_CYzHdyH

- NOTES-**
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 528 lb uplift at joint 13, 248 lb uplift at joint 2 and 962 lb uplift at joint 22.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

**⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177768
2340302	T20	Half Hip Girder	1	2	Job Reference (optional)	

**NOTES-**

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 295 lb down and 280 lb up at 6-7-8, 276 lb down and 280 lb up at 8-8-4, 276 lb down and 280 lb up at 10-8-4, 276 lb down and 280 lb up at 12-8-4, 276 lb down and 280 lb up at 14-8-4, and 276 lb down and 280 lb up at 16-8-4, and 297 lb down and 280 lb up at 18-11-4 on top chord, and 654 lb down and 592 lb up at 4-8-4, 62 lb down and 25 lb up at 6-8-4, 62 lb down and 25 lb up at 8-8-4, 62 lb down and 25 lb up at 10-8-4, 62 lb down and 25 lb up at 12-8-4, 62 lb down and 25 lb up at 14-8-4, and 62 lb down and 25 lb up at 16-8-4, and 56 lb down and 25 lb up at 18-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 8-14=-20

Concentrated Loads (lb)

Vert: 4=-276(F) 7=-297(F) 8=-3(F) 5=-276(F) 6=-276(F) 18=-276(F) 19=-276(F) 20=-276(F) 21=-654(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

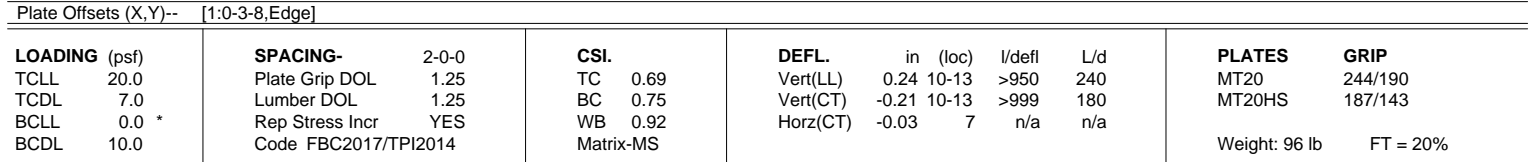
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Tampa, FL 36610

Builders FirstSource, Lake City, FL 32055 Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:38 2020 Page 1  
ID: fQV2AyXLSCLMmITf8SKYdzIHwN-3ISNH0yKp6\_dnpA4Puhu3uJPCfY1PWeqi1r5HQzHdyF

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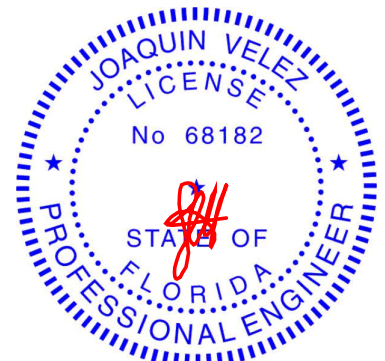


<b>BRACING- TOP CHORD</b>	Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals.
<b>BOT CHORD</b>	Rigid ceiling directly applied or 3-9-2 oc bracing.

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1343/1734, 3-4=-1244/1697, 4-5=-978/1316, 5-6=-978/1316, 6-7=-652/813  
 BOT CHORD 1-10=-1731/1259, 9-10=-1699/1201, 8-9=-1699/1201  
 WEBS 4-10=-388/258, 4-8=-254/435, 5-8=-317/240, 6-8=-1468/1092

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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 549 lb uplift at joint 1 and 569 lb uplift at joint 7.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020



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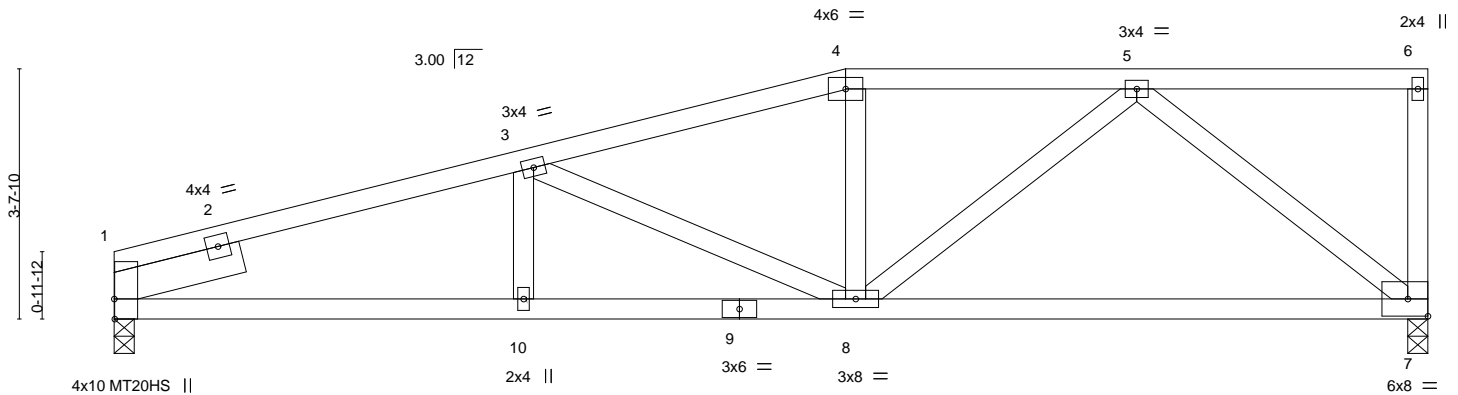
Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177770
2340302	T22	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:38 2020 Page 1  
ID: fQV2AyxLSCLMmIT8SkYdzlHwN-3ISNH0yKp6\_dnpA4Puhu3uJMhfYDPdsq1r5HQzHdyF

5-11-6	10-7-8	14-10-4	19-1-0
5-11-6	4-8-2	4-2-12	4-2-12

Scale = 1:33.5



5-11-6	10-7-8	19-1-0
5-11-6	4-8-2	8-5-8

Plate Offsets (X,Y)-- [1:0-3-8,Edge]									
<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	0.85	Vert(LL)	0.31 7-8 >726	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.28 7-8 >817	180	MT20HS 187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	-0.03 7 n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight: 96 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 3-6-1 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 3-7-12 oc bracing.

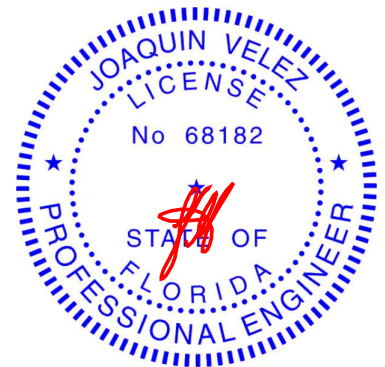
**REACTIONS.** (lb/size) 1=701/0-3-8, 7=701/0-3-8  
Max Horz 1=132(LC 12)  
Max Uplift 1=545(LC 8), 7=573(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1366/1807, 3-4=-1075/1466, 4-5=-1023/1461  
BOT CHORD 1-10=-1825/1284, 9-10=-1825/1284, 8-9=-1825/1284, 7-8=-866/672  
WEBS 3-8=-287/405, 5-8=-769/453, 5-7=-839/1056

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 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 545 lb uplift at joint 1 and 573 lb uplift at joint 7.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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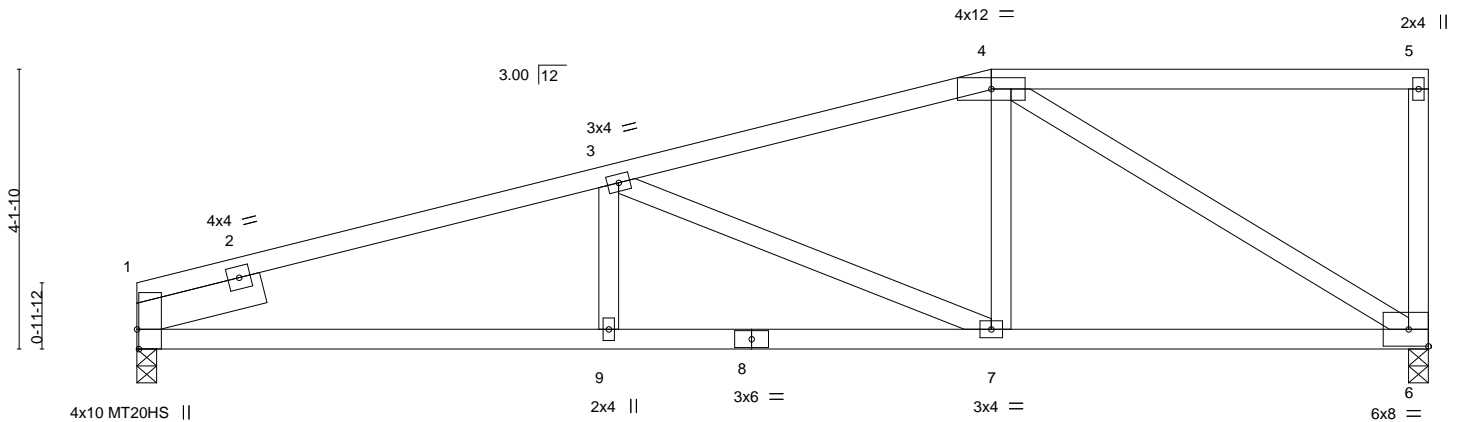
Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177771
2340302	T23	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:39 2020 Page 1  
ID: fQV2AyxLsCLMmITf8SkYdzlHwN-XU0IUkzzaP7UPyIGzcC7c5sXK2tQ8zv\_xhaepszHdyE

6-11-11	12-7-8	19-1-0
6-11-11	5-7-13	6-5-8

Scale = 1:34.0



6-11-11	12-7-8	19-1-0
6-11-11	5-7-13	6-5-8

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.86	Vert(LL)	0.20	7-9	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25		BC 0.74	Vert(CT)	-0.18	7-9	>999	180	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.25		WB 0.92	Horz(CT)	-0.04	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES		Matrix-MS							
	Code FBC2017/TPI2014								Weight: 95 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 3-7-2 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8	

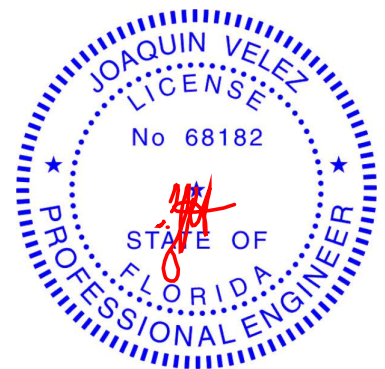
**REACTIONS.** (lb/size) 1=701/0-3-8, 6=701/0-3-8  
Max Horz 1=157(LC 8)  
Max Uplift 1=540(LC 8), 6=578(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1372/1809, 3-4=-867/1135  
BOT CHORD 1-9=-1853/1289, 8-9=-1853/1289, 7-8=-1853/1289, 6-7=-1164/821  
WEBS 3-9=-268/200, 3-7=-522/776, 4-7=-677/413, 4-6=-928/1321

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 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 540 lb uplift at joint 1 and 578 lb uplift at joint 6.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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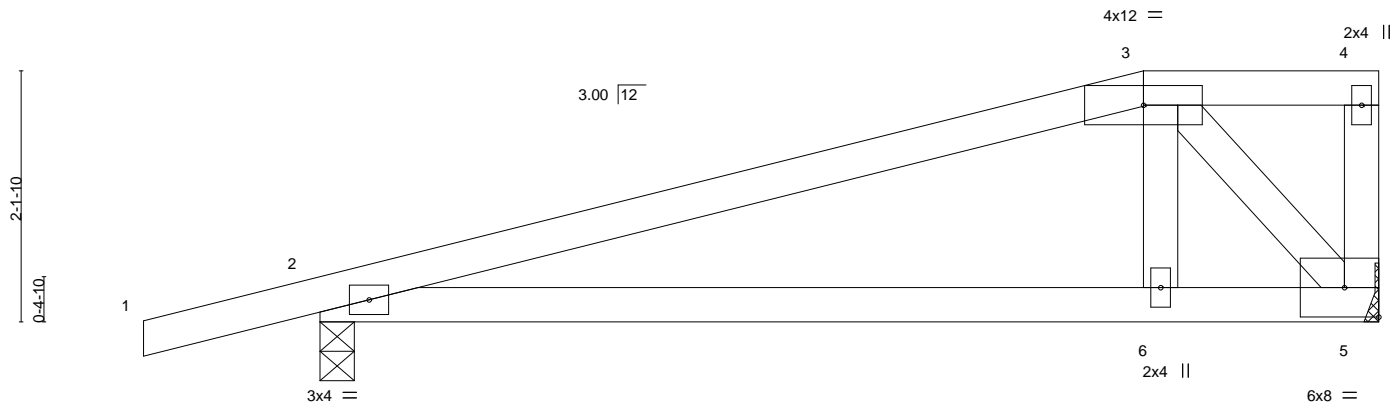
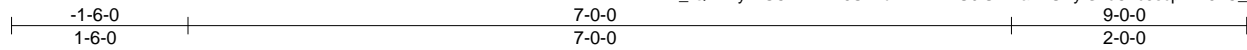


6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177772
2340302	T24	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:39 2020 Page 1  
ID: fQV2AyxLSCLMmTf8SkYdzIHwN-XU0UkzzaP7UPyIGzcC7c5scp2wr87C\_xhaepszHdyE



		7-0-0		9-0-0	
		7-0-0		2-0-0	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.57	Vert(LL) 0.14 6-9 >757 240	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.52	Vert(CT) -0.13 6-9 >789 180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.26	Horz(CT) -0.01 5 n/a n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS		Weight: 37 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 5-6-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-2-7 oc bracing.

**REACTIONS.** (lb/size) 2=502/0-3-8, 5=674/Mechanical  
Max Horz 2=112(LC 23)  
Max Uplift 2=421(LC 4), 5=569(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-756/572  
BOT CHORD 2-6=-589/696, 5-6=-624/737  
WEBS 3-6=-448/591, 3-5=-1043/883

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 421 lb uplift at joint 2 and 569 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 127 lb down and 136 lb up at 7-0-0 on top chord, and 331 lb down and 377 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-54, 3-4=-54, 5-7=-20  
Concentrated Loads (lb)  
Vert: 6=-331(B) 3=-109(B)



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177773
2340302	T25	Jack-Partial	7	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:39 2020 Page 1  
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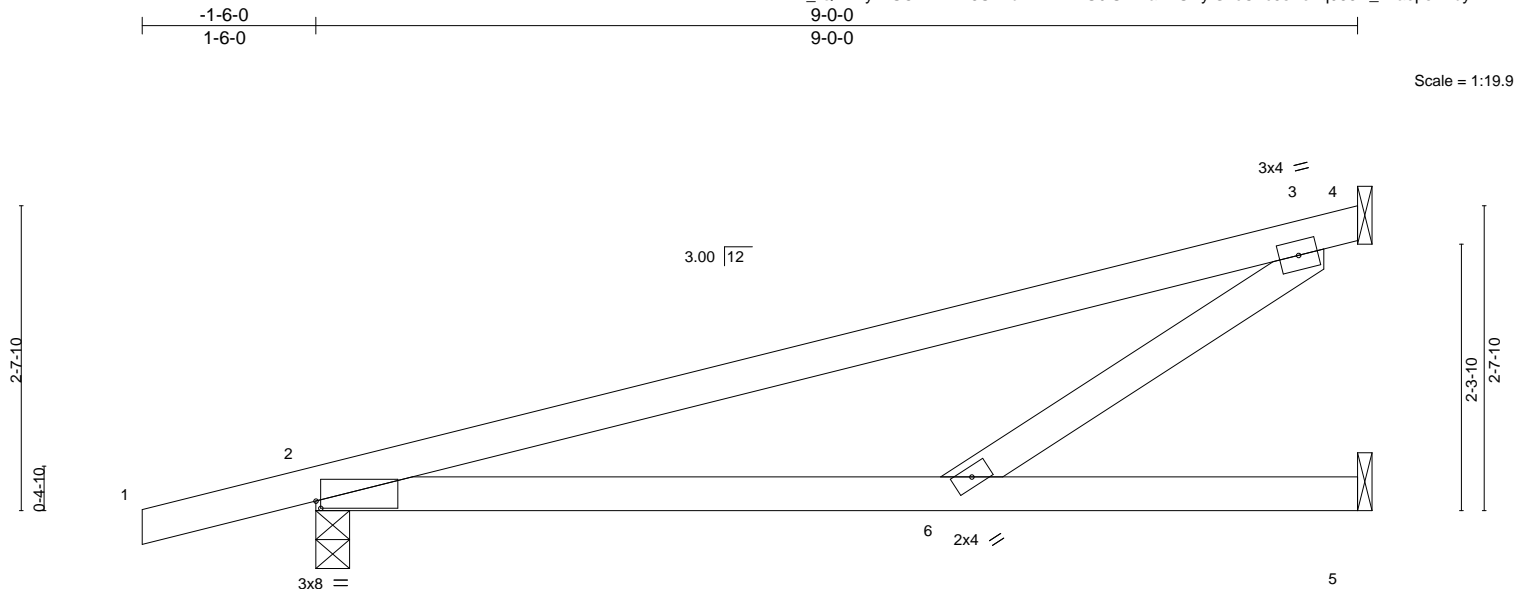


Plate Offsets (X,Y)-- [2:0-0-8,0-0-12]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.97	Vert(LL)	0.20	6-9	>541	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.17	6-9	>617	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	-0.01	2	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight: 35 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.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (lb/size) 4=330/Mechanical, 2=418/0-3-8, 5=-6/Mechanical  
Max Horz 2=136(LC 8)  
Max Uplift 4=-275(LC 8), 2=-343(LC 8), 5=-14(LC 20)  
Max Grav 4=330(LC 1), 2=418(LC 1), 5=38(LC 3)

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

TOP CHORD 2-3=-404/634  
BOT CHORD 2-6=-666/347  
WEBS 3-6=-812/423

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 4, 343 lb uplift at joint 2 and 14 lb uplift at joint 5.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
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Date:

May 11, 2020

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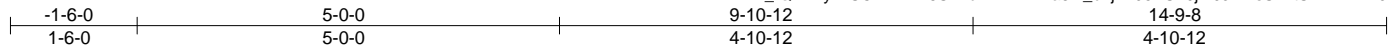


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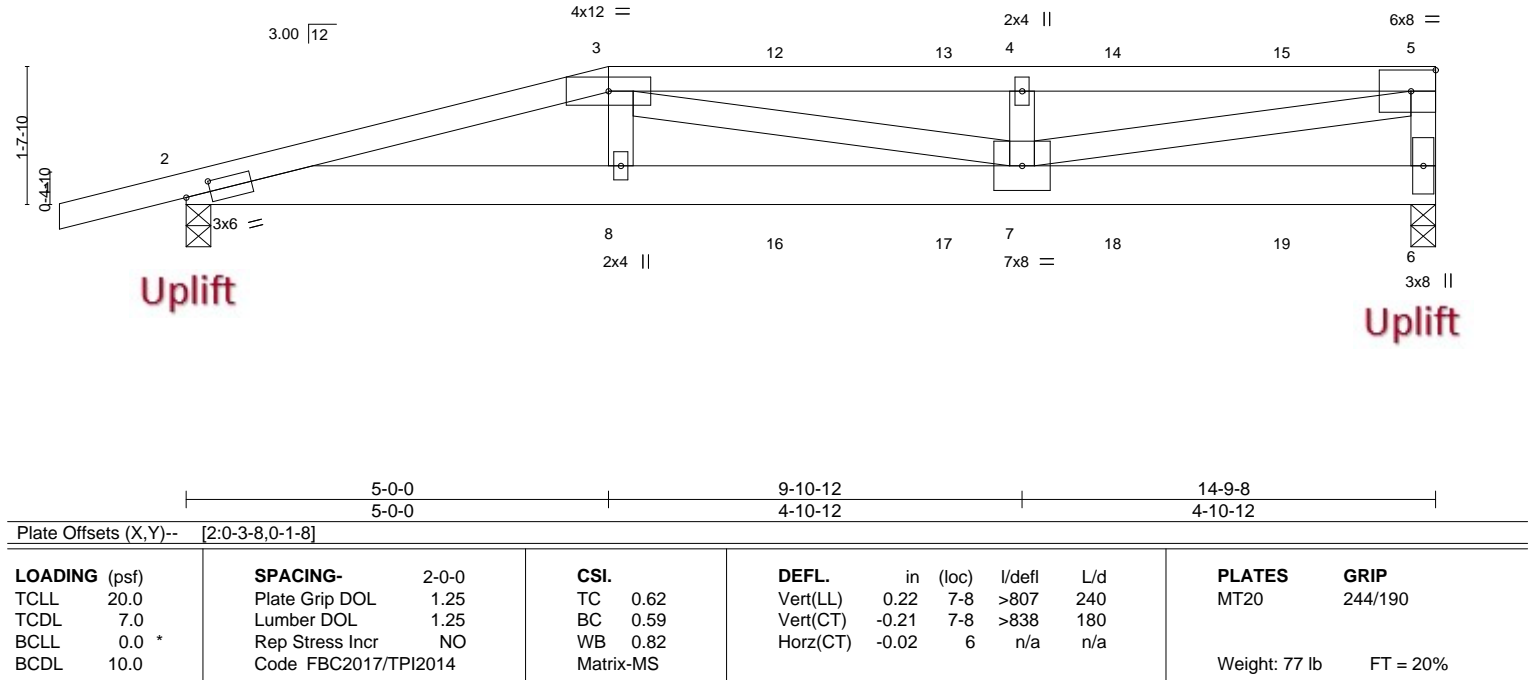
Job 2340302	Truss T26	Truss Type Half Hip Girder	Qty 2	Ply 1	IC CONST. - SUZIE HALL Job Reference (optional)	T20177774
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Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:40 2020 Page 1  
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Scale = 1:27.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.59	Vert(LL) 0.22 7-8 >807 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.82	Vert(CT) -0.21 7-8 >838 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.02 6 n/a n/a		
	Code FBC2017/TPI2014			Weight: 77 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-1-10 oc bracing.

#### REACTIONS.

(lb/size) 6=857/0-3-8, 2=850/0-3-8  
Max Horz 2=87(LC 4)  
Max Uplift 6=718(LC 4), 2=721(LC 4)

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

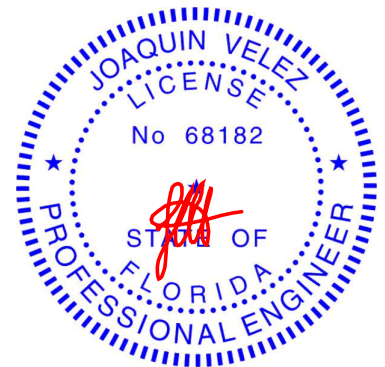
TOP CHORD 2-3=-2385/1969, 3-12=-2244/1886, 12-13=-2244/1886, 4-13=-2244/1886,  
4-14=-2244/1886, 14-15=-2244/1886, 5-15=-2244/1886, 5-6=-722/602  
BOT CHORD 2-8=-1930/2298, 8-16=-1958/2331, 16-17=-1958/2331, 7-17=-1958/2331  
WEBS 3-8=-241/364, 4-7=-429/348, 5-7=-1811/2154

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 718 lb uplift at joint 6 and 721 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 94 lb up at 5-0-0, 57 lb down and 94 lb up at 7-0-12, 57 lb down and 94 lb up at 9-0-12, and 57 lb down and 94 lb up at 11-0-12, and 57 lb down and 94 lb up at 13-0-12 on top chord, and 111 lb down and 165 lb up at 5-0-0, 46 lb down and 68 lb up at 7-0-12, 46 lb down and 68 lb up at 9-0-12, and 46 lb down and 68 lb up at 11-0-12, and 46 lb down and 68 lb up at 13-0-12 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).

#### LOAD CASE(S) Standard

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



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020

Continued on page 2

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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177774
2340302	T26	Half Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 3=-57(B) 8=-99(B) 12=-57(B) 13=-57(B) 14=-57(B) 15=-57(B) 16=-39(B) 17=-39(B) 18=-39(B) 19=-39(B)

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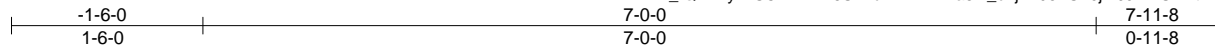


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Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177775
2340302	T27	Half Hip	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

Run: 8.240 s Feb 11 2019 Print: 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon May 11 09:02:40 2020 Page 1  
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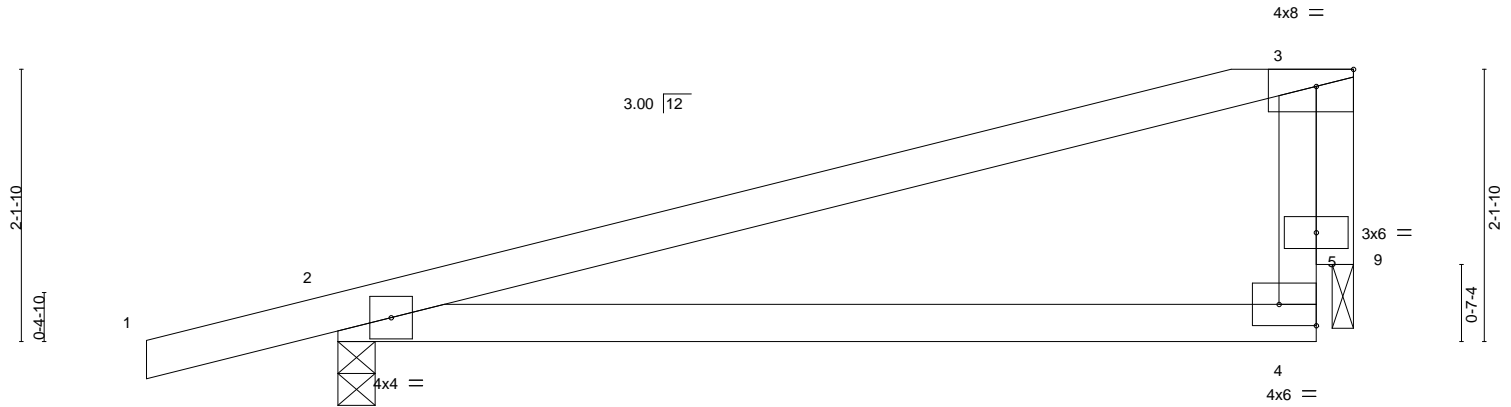


Plate Offsets (X,Y)-- [3:0-3-8,Edge], [4:Edge,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.65	Vert(LL)	0.29	4-8	>323	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.66	Vert(CT)	0.25	4-8	>375	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.45	Horz(CT)	-0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						Weight: 31 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 7-2-6 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

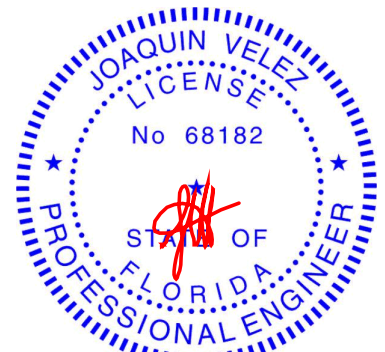
**REACTIONS.** (lb/size) 2=379/0-3-8, 9=258/0-2-0  
Max Horz 2=118(LC 8)  
Max Uplift 2=-315(LC 8), 9=-216(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-219/261, 4-5=-255/151, 3-5=-255/151  
BOT CHORD 2-4=-316/183  
WEBS 3-9=-276/469

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 2 and 216 lb uplift at joint 9.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11, 2020

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6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SUZIE HALL	T20177776
2340302	T28	MONO TRUSS	14	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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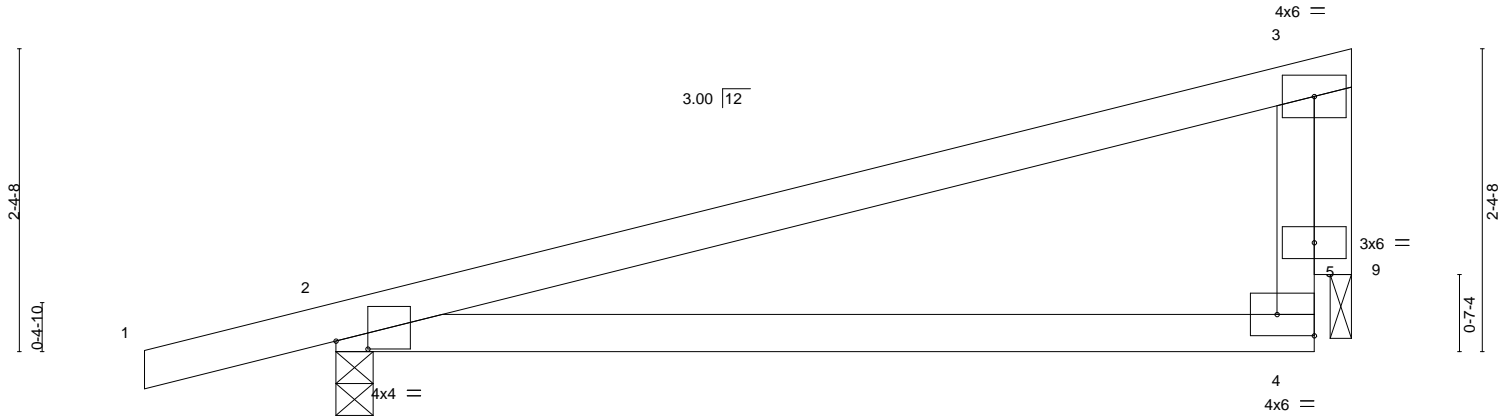
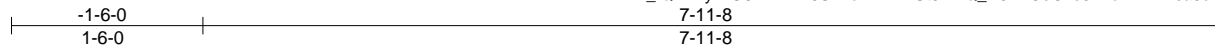


Plate Offsets (X,Y)-- [2:0-3-0,0-0-12], [4:Edge,0-2-0]

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.65		Vert(LL)	0.29	4-8	>323	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.66		Vert(CT)	0.25	4-8	>375	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.45		Horz(CT)	-0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR							Weight: 31 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 7-2-6 oc bracing.
WEBS 2x4 SP No.3			
OTHERS 2x4 SP No.3			

**REACTIONS.** (lb/size) 2=379/0-3-8, 9=258/0-2-0  
Max Horz 2=118(LC 8)  
Max Uplift 2=-315(LC 8), 9=-216(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-219/261, 4-5=-255/151, 3-5=-255/151  
BOT CHORD 2-4=-316/183  
WEBS 3-9=-276/469

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 2 and 216 lb uplift at joint 9.

**LOAD CASE(S)** Standard



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 11,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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. For 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

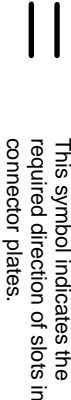
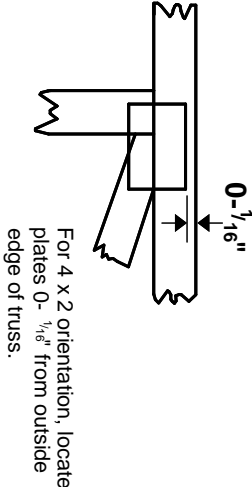
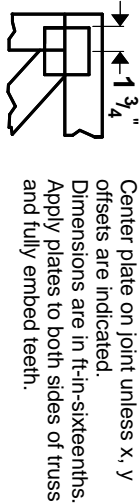


6904 Parke East Blvd.  
Tampa, FL 36610



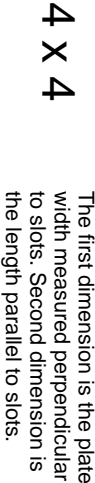
Symbols

PLATE LOCATION AND ORIENTATION

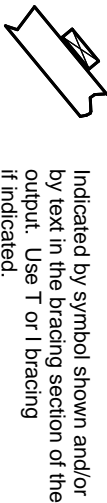


\* Plate location details available in **MiTek 20/20** software or upon request.

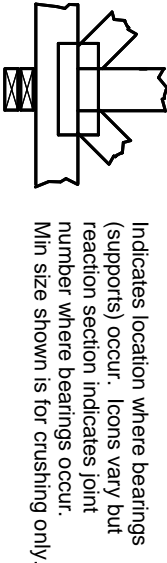
PLATE SIZE



LATERAL BRACING LOCATION

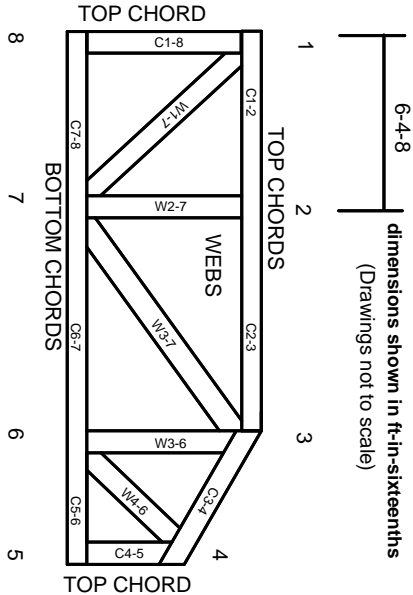


BEARING



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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:  
ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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