



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

RE: 2623235 - IC CONST. - LOT 19 HP

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

**Site Information:**

Customer Info: IC Construction Project Name: Spec Hse Model: Custom  
Lot/Block: 19 Subdivision: High Pointe Farms  
Address: TBD, TBD  
City: Columbia Cty State: FL

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

Name: License #:  
Address:  
City: State:

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

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

This package includes 53 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.

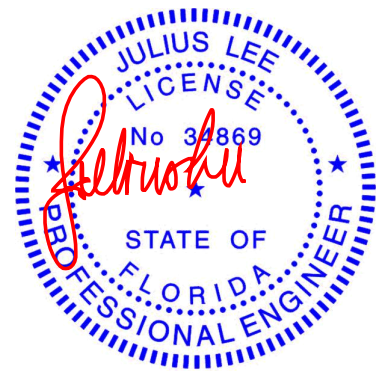
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T22760424	EJ01	2/8/21	23	T22760446	T14	2/8/21
2	T22760425	EJ02	2/8/21	24	T22760447	T15	2/8/21
3	T22760426	PB01	2/8/21	25	T22760448	T16	2/8/21
4	T22760427	PB01G	2/8/21	26	T22760449	T17	2/8/21
5	T22760428	PB02	2/8/21	27	T22760450	T17G	2/8/21
6	T22760429	T01G	2/8/21	28	T22760451	T18	2/8/21
7	T22760430	T02	2/8/21	29	T22760452	T19	2/8/21
8	T22760431	T02G	2/8/21	30	T22760453	T20	2/8/21
9	T22760432	T03	2/8/21	31	T22760454	T21	2/8/21
10	T22760433	T04	2/8/21	32	T22760455	T21G	2/8/21
11	T22760434	T05	2/8/21	33	T22760456	T22	2/8/21
12	T22760435	T06	2/8/21	34	T22760457	T23	2/8/21
13	T22760436	T07	2/8/21	35	T22760458	T23G	2/8/21
14	T22760437	T07G	2/8/21	36	T22760459	T24	2/8/21
15	T22760438	T08	2/8/21	37	T22760460	T25	2/8/21
16	T22760439	T09	2/8/21	38	T22760461	T25G	2/8/21
17	T22760440	T10	2/8/21	39	T22760462	T26	2/8/21
18	T22760441	T11	2/8/21	40	T22760463	TG01	2/8/21
19	T22760442	T12	2/8/21	41	T22760464	TG02	2/8/21
20	T22760443	T12G	2/8/21	42	T22760465	V01	2/8/21
21	T22760444	T13	2/8/21	43	T22760466	V01G	2/8/21
22	T22760445	T13G	2/8/21	44	T22760467	V02	2/8/21



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

Truss Design Engineer's Name: Lee, Julius  
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.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021



RE: 2623235 - IC CONST. - LOT 19 HP

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

**Site Information:**

Customer Info: IC Construction    Project Name: Spec Hse    Model: Custom  
Lot/Block: 19    Subdivision: High Pointe Farms  
Address: TBD, TBD  
City: Columbia Cty    State: FL

No.	Seal#	Truss Name	Date
45	T22760468	V03	2/8/21
46	T22760469	V04	2/8/21
47	T22760470	V05	2/8/21
48	T22760471	V06	2/8/21
49	T22760472	V07	2/8/21
50	T22760473	V09	2/8/21
51	T22760474	V10	2/8/21
52	T22760475	V11	2/8/21
53	T22760476	V12	2/8/21

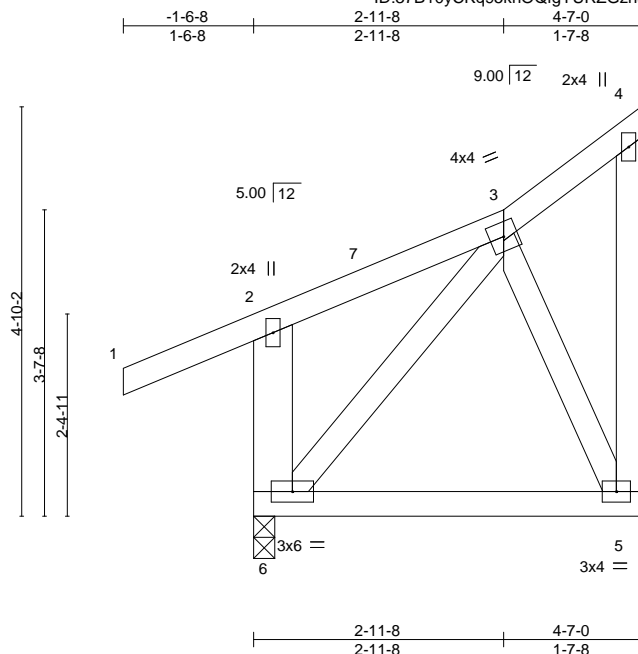
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP
2623235	EJ01	Roof Special	2	1	T22760424
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:33:50 2021 Page 1

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Scale = 1:27.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	-0.02 5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.04 5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 39 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 2-6: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 5=Mechanical, 6=0-3-0  
 Max Horz 6=100(LC 9)  
 Max Uplift 5=-97(LC 12), 6=-55(LC 8)  
 Max Grav 5=136(LC 1), 6=271(LC 1)

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

#### NOTES-

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



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 Date:

February 8, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



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 Tampa, FL 33610

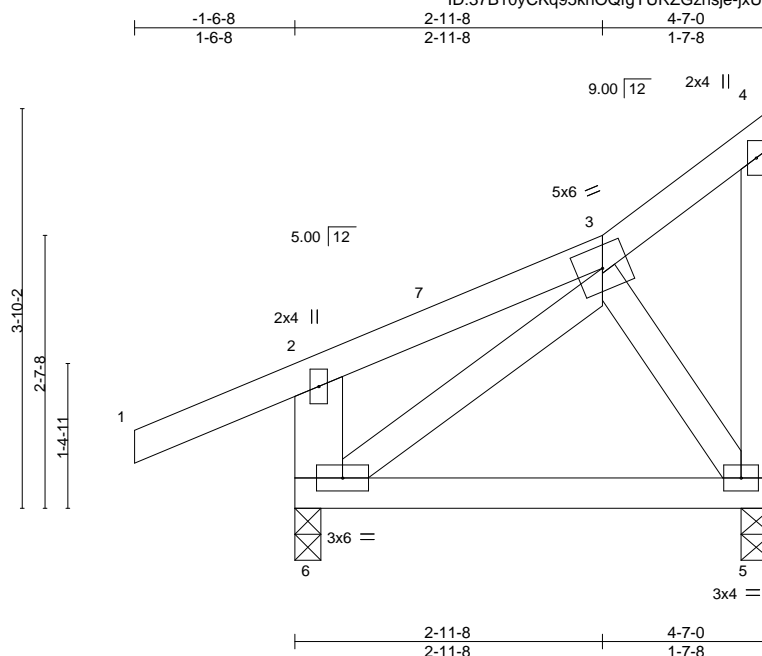
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760425
2623235	EJ02	Roof Special	2	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:33:51 2021 Page 1

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Scale = 1:22.2

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 0.18	Vert(LL)	-0.02 5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.04 5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 33 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 2-6: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 5=0-3-8, 6=0-3-0  
 Max Horz 6=84(LC 12)  
 Max Uplift 5=-78(LC 12), 6=-62(LC 8)  
 Max Grav 5=136(LC 1), 6=271(LC 1)

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

#### NOTES-

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



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 Date:

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



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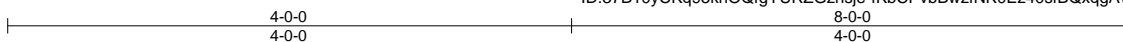
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760426
2623235	PB01	Piggyback	13	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

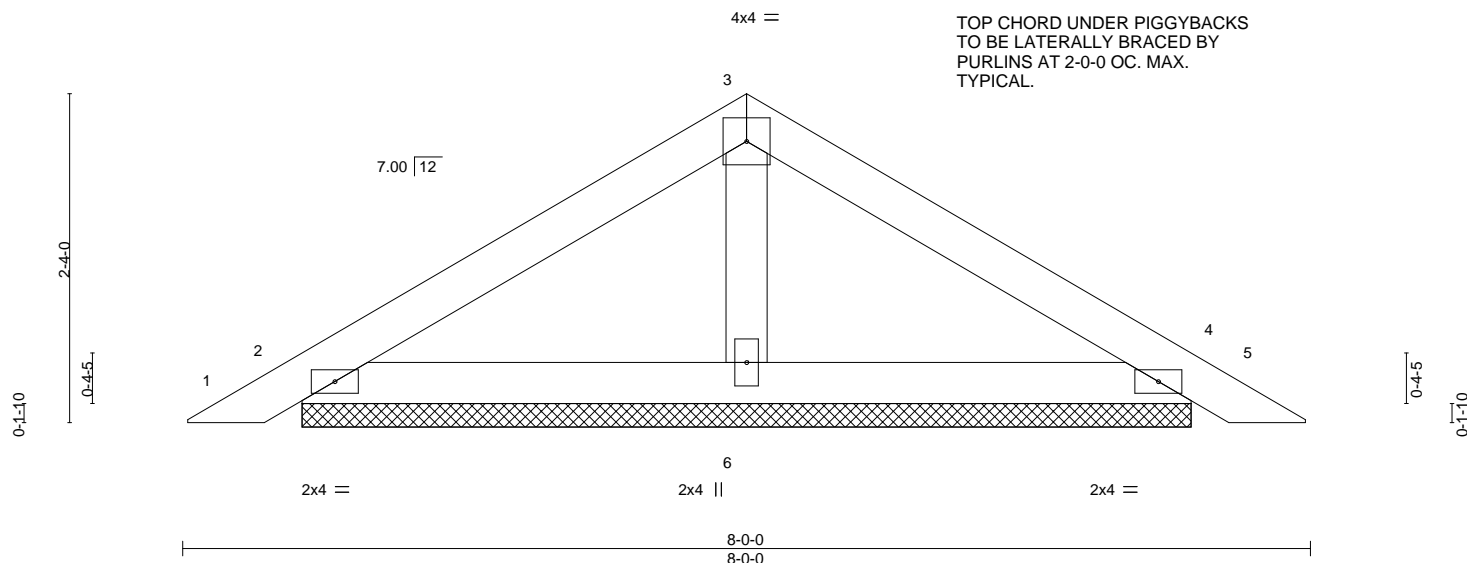
Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:33:53 2021 Page 1

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Scale = 1:16.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-P						Weight: 25 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 2=6-3-11, 4=6-3-11, 6=6-3-11  
Max Horz 2=47(LC 10)  
Max Uplift 2=50(LC 12), 4=56(LC 13), 6=19(LC 12)  
Max Grav 2=153(LC 1), 4=153(LC 1), 6=220(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 4-0-0, Exterior(2R) 4-0-0 to 7-1-13, Interior(1) 7-1-13 to 7-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

February 8, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



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Tampa, FL 33610

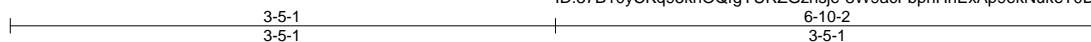
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760427
2623235	PB01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:33:54 2021 Page 1

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Scale = 1:14.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.09	Vert(LL)	0.00	5	n/r	120	MT20
BCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	0.00	5	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code FBC2020/TP12014		Matrix-P						
								Weight: 21 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 2=5-1-13, 4=5-1-13, 6=5-1-13  
Max Horz 2=40(LC 10)  
Max Uplift 2=43(LC 12), 4=48(LC 13), 6=14(LC 12)  
Max Grav 2=131(LC 1), 4=131(LC 1), 6=178(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610



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Jacksonville, FL - 32244.

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:33:55 2021 Page 1

T22760428

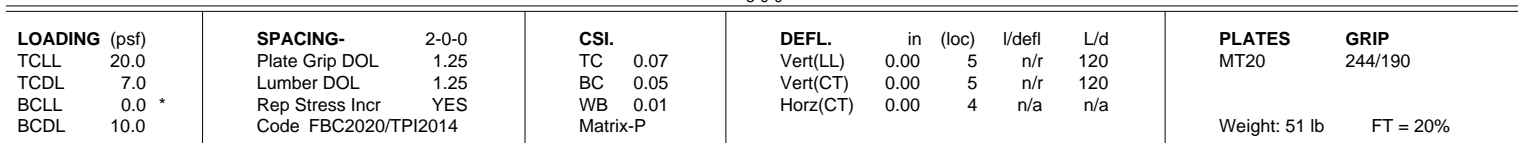
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4-0-0

8-0-0

4-0-0

Scale = 1:16.3



OTHERS 2x4 SP No. 3

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 or bracing

**REACTIONS.** (size) 2=6-3-11, 4=6-3-11, 6=6-3-11  
 Max Horz 2=-47(LC 10)  
 Max Uplift 2=-50(LC 12), 4=-56(LC 13), 6=-19(LC 12)  
 Max Grav 2=153(LC 1), 4=153(LC 1), 6=220(LC 1)

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

**NOTES-**

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 4-0-0, Exterior(2R) 4-0-0 to 7-1-13, Interior(1) 7-1-13 to 7-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Gable requires continuous bottom chord bearing.
- 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, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



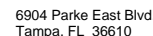
February 8, 2021



Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personnel injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building C**

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

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



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760429
2623235	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:33:57 2021 Page 1  
ID:37B10yCKq95knOQfgYURZGznsje-Y5riEGeh\_CApodYkJsxbLG5WAnsKBhTsiDFATNznCzu  
-1-6-8 4-9-12 8-0-0 9-2-0 11-5-8 13-9-0 14-11-0 18-1-4 22-11-0 24-5-8  
1-6-8 4-9-12 3-2-4 1-2-0 2-3-8 2-3-8 1-2-0 3-2-4 4-9-12 1-6-8  
5x6 = Scale = 1:69.3

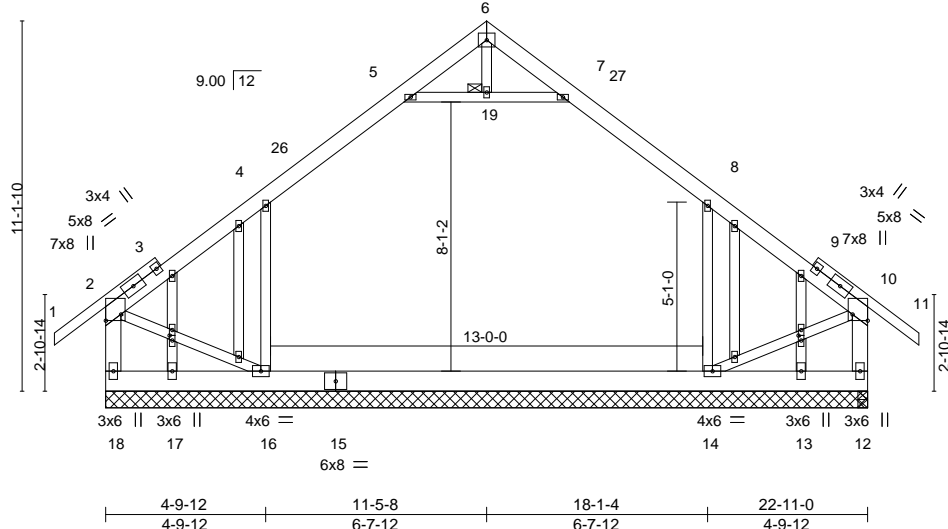


Plate Offsets (X,Y)-- [2:Edge,0-5-8], [10:Edge,0-5-8], [20:0-1-13,0-1-0], [23:0-1-13,0-1-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.08 14-16 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.12 14-16 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00 12 n/a n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S				Weight: 218 lb	FT = 20%

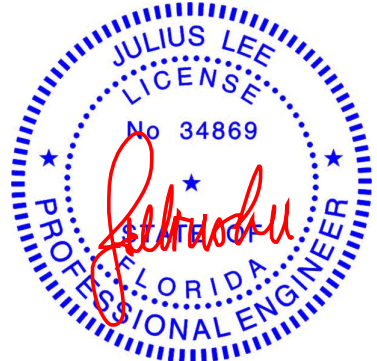
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2 *Except* 1-3,9-11: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-18,10-12: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 19
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 22-11-0.  
(lb) - Max Horz 18=281(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 18, 12 except 14=197(LC 13),  
16=197(LC 12), 13=401(LC 18), 17=401(LC 18)  
Max Grav All reactions 250 lb or less at joint(s) except 18=676(LC 21), 14=929(LC 21), 16=930(LC 20), 12=673(LC 20), 12=645(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-426/102, 4-5=-455/168, 7-8=-455/167, 8-10=-426/101, 2-18=-567/126,  
10-12=-567/125  
BOT CHORD 17-18=-248/250, 16-17=-248/250, 14-16=-75/339  
WEBS 8-14=-317/229, 4-16=-319/230, 2-16=-62/335, 10-14=-63/336

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 11-5-8, Exterior(2R) 11-5-8 to 14-5-8, Interior(1) 14-5-8 to 24-5-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12 except (jt=lb) 14=197, 16=197, 13=401, 17=401.
- 10) Attic room checked for L/360 deflection.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760430
2623235	T02	Attic	6	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:33:58 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-0IP4ScfKIWIgQn7wtZSquUeWmB5Hw1L?xt\_j?pnzCzt

-1-6-8	2-11-8	6-9-12	10-0-0	10-8-3	13-5-8	16-2-13	16-11-0	20-1-4	24-11-0	26-5-8
1-6-8	2-11-8	3-10-4	3-2-4	0-8-3	2-9-5	2-9-5	0-8-3	3-2-4	4-9-12	1-6-8

Scale = 1:66.9

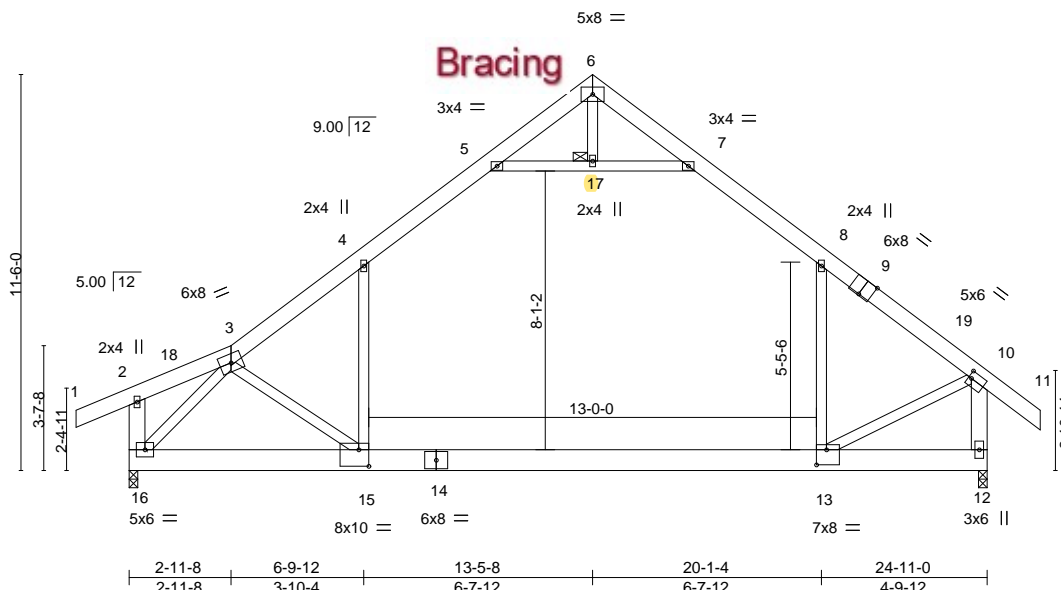


Plate Offsets (X,Y)--	[9:0-4-0,Edge], [10:0-1-0,0-2-8], [13:0-3-8,0-5-4], [15:0-3-8,0-5-12]				
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.44 13-15 >672 240
TCDL 7.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.72 13-15 >408 180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.01 12 n/a n/a
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS	Attic	-0.29 13-15 556 360
					Weight: 214 lb FT = 20%

#### LUMBER-

TOP CHORD 2x6 SP No.2 \*Except\*  
3-6,6-9: 2x6 SP M 26  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\*  
2-16,10-12: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 17

#### REACTIONS.

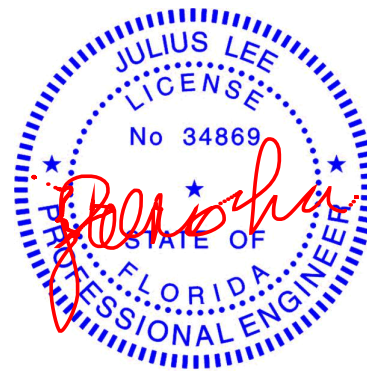
(size) 16=0-3-0, 12=0-3-0  
Max Horz 16=293(LC 11)  
Max Uplift 16=29(LC 12)  
Max Grav 16=1495(LC 2), 12=1602(LC 21)

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

TOP CHORD 3-4=-1789/8, 4-5=-1156/140, 5-6=0/400, 6-7=-17/363, 7-8=-1197/133, 8-10=-1710/0, 10-12=-1920/70  
BOT CHORD 15-16=-10/1370, 13-15=0/1252  
WEBS 4-15=0/940, 8-13=0/771, 5-17=-1571/98, 7-17=-1571/98, 3-16=-1891/0, 10-13=0/1343

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind= ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 13-5-8, Exterior(2R) 13-5-8 to 16-6-13, Interior(1) 16-6-13 to 26-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0psf) on member(s). 4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16.
- Attic room checked for L/360 deflection.



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Date:

February 8, 2021

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

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

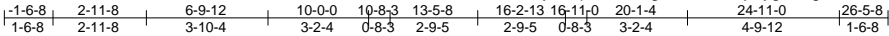


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760431
2623235	T02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),
Jacksonville, FL - 32244,
8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:00 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-ygWrtlgaH7YOf5HJ\_UlZvj7\_nZOxolOBTq3iznCzr



Scale = 1:73.0

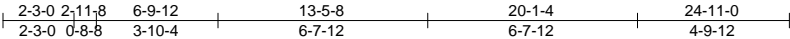
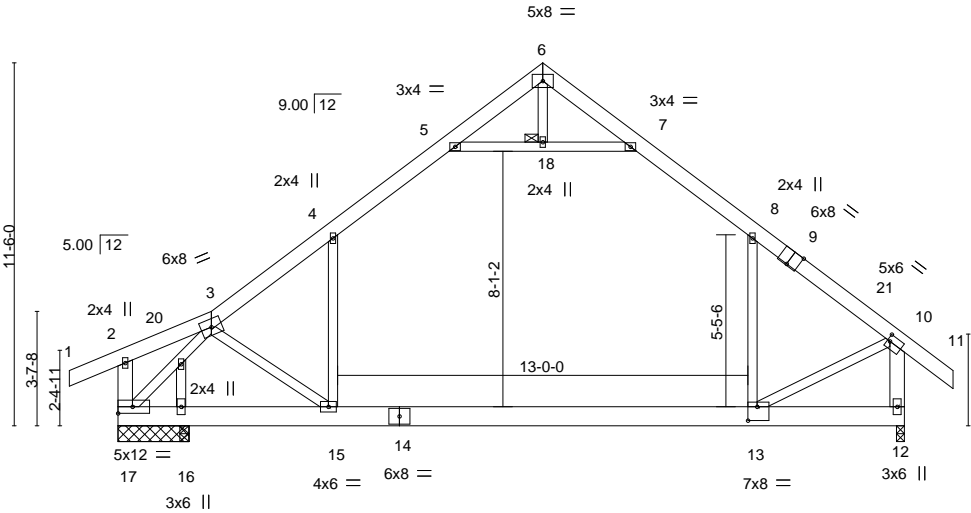


Plate Offsets (X,Y)-- [9:0-4-0,Edge], [10:0-1-0,0-2-8], [13:0-3-8,0-5-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.42 13-15	>644	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.68 13-15	>400	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.01 12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.29 13-15	546	360	Weight: 216 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2 \*Except\*  
3-6,6-9: 2x6 SP M 26  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\*  
2-17,10-12: 2x6 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 18

**REACTIONS.**

All bearings 2-3-0 except (jt=length) 12=0-3-0.  
(lb) - Max Horz 17=293(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 12 except 17=311(LC 8), 16=182(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) except 17=741(LC 21), 12=1544(LC 21), 16=1274(LC 20), 16=812(LC 1)

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

TOP CHORD 2-3=0/325, 3-4=1623/40, 4-5=1094/143, 5-6=43/330, 6-7=51/324, 7-8=1051/129, 8-10=1521/0, 10-12=1716/65  
BOT CHORD 16-17=0/1063, 15-16=0/1063, 13-15=0/1097  
WEBS 4-15=60/732, 8-13=0/718, 5-18=1418/107, 7-18=1418/107, 3-17=1901/0, 10-13=0/1144

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 13-5-8, Exterior(2R) 13-5-8 to 16-6-13, Interior(1) 16-6-13 to 26-5-8 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable 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.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 4-5, 7-8, 5-18, 7-18; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 17=311, 16=182.
- Attic room checked for L/360 deflection.



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Date:

February 8,2021

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6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760432
2623235	T03	Attic	4	1		

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:01 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-Qs4D4ehC2RgEHEsVYi?XW6G5EO8?7O3RdrDOc8znCzq

Job Reference (optional)

-1-6-8	2-11-8	6-9-12	10-0-0	10-8-3	13-5-8	16-2-13	16-11-0	20-1-4	24-11-0
1-6-8	2-11-8	3-10-4	3-2-4	0-8-3	2-9-5	2-9-5	0-8-3	3-2-4	4-9-12

Scale = 1:66.9

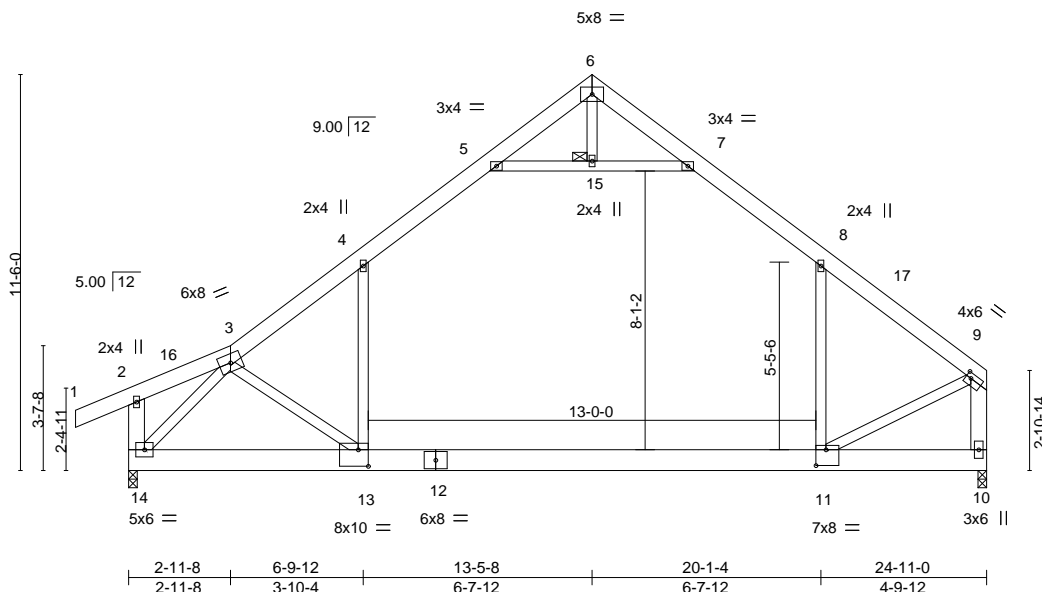


Plate Offsets (X,Y)--		[9:0-1-12,0-1-12], [11:0-3-8,0-5-8], [13:0-3-8,0-5-12]							
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0		Plate Grip DOL 1.25		TC 0.62		Vert(LL) -0.43 11-13 >677 240		MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.58		Vert(CT) -0.71 11-13 >411 180			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.58		Horz(CT) 0.01 10 n/a n/a			
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS		Attic -0.29 11-13 558 360		Weight: 209 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x6 SP M 26 \*Except\*  
1-3: 2x6 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\*  
2-14,9-10: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-15 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 15

#### REACTIONS.

(size) 14=0-3-0, 10=0-3-0  
Max Horz 14=283(LC 11)  
Max Uplift 14=28(LC 12)  
Max Grav 14=1498(LC 2), 10=1511(LC 21)

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

TOP CHORD 3-4=-1794/5, 4-5=-1161/137, 5-6=0/397, 6-7=-14/361, 7-8=-1200/135, 8-9=-1707/0, 9-10=-1860/0  
BOT CHORD 13-14=-53/1359, 11-13=0/1243  
WEBS 4-13=0/937, 8-11=0/757, 5-15=-1575/95, 7-15=-1575/95, 3-14=-1896/0, 9-11=0/1365

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 13-5-8, Exterior(2R) 13-5-8 to 16-6-13, Interior(1) 16-6-13 to 24-8-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s). 4-13, 8-11
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14.
- 9) Attic room checked for L/360 deflection.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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

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

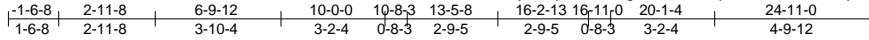


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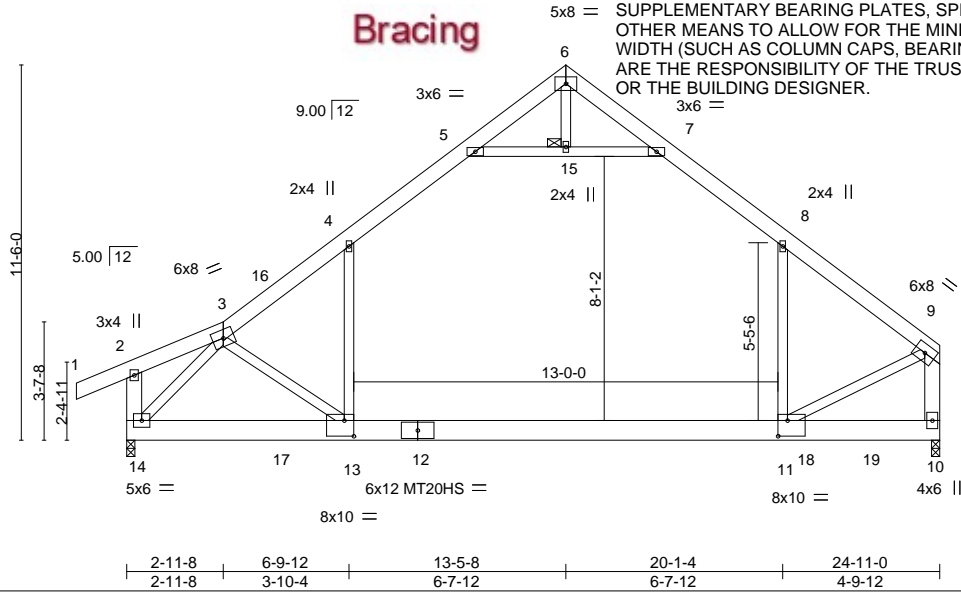
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760433
2623235	T04	Attic Girder	1	2	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:03 2021 Page 1

ID:37B10yCKq95knOQfgYURZGZnsje-NFCzVJiSa2wyWY?uf72?bXLN1ClwbD9k59iUg1znCzo



Scale = 1:70.6



5x8 = SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

Plate Offsets (X,Y)--		[11:0-3-8,0-5-12], [13:0-3-8,0-5-12]									
<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	0.86	Vert(LL)	-0.58 11-13	>502	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.90 11-13	>327	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.02 10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.36 11-13	439	360	Weight: 419 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP M 26 \*Except\*  
1-3: 2x6 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\*  
2-14,9-10: 2x6 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 15

**REACTIONS.** (size) 14=0-3-0, 10=0-3-0 (req. 0-3-1)  
Max Horz 14=334(LC 5)  
Max Uplift 14=-311(LC 8), 10=-309(LC 9)  
Max Grav 14=4689(LC 34), 10=5217(LC 34)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-4=-5996/376, 4-5=-4485/418, 5-6=-181/721, 6-7=-165/565, 7-8=-4688/435,  
8-9=-5779/364, 9-10=-6171/384  
BOT CHORD 13-14=-403/4376, 11-13=-225/4311  
WEBS 4-13=-213/1834, 8-11=-164/1556, 5-15=-5236/696, 7-15=-5236/696, 3-14=-6061/276,  
9-11=-242/4793

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).4-13, 8-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- WARNING: Required bearing size at joint(s) 10 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=311, 10=309.
- Girder carries tie-in span(s): 8-0-0 from 4-7-0 to 20-0-0

Continued on page 2



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760433
2623235	T04	Attic Girder	1	2	Job Reference (optional)	

- NOTES-**
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 207 lb down and 139 lb up at 4-7-12, and 249 lb down and 64 lb up at 20-8-12, and 249 lb down and 64 lb up at 22-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-54, 3-16=-64, 5-16=-205(F=-141), 5-6=-195(F=-141), 6-7=-195(F=-141), 7-8=-205(F=-141), 8-9=-54, 13-14=-20, 11-13=-140(F=-100), 10-11=-20, 5-7=-10

Drag: 4-13=-10, 8-11=-10

Concentrated Loads (lb)

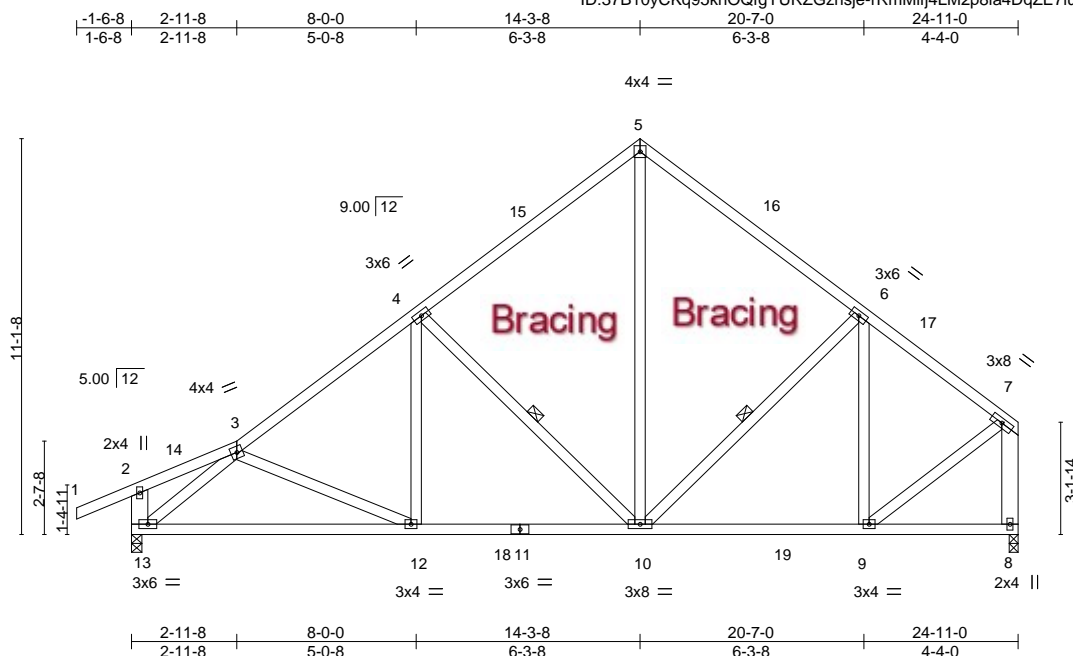
Vert: 17=-207(B) 18=-118(B) 19=-118(B)



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760434
2623235	T05	Roof Special	3	1	Job Reference (optional)	

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8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:04 2021 Page 1  
ID:37B10yCKq95knOQfgYURZGznsje-rRmMifj4LM2p8iaDqZE7lufpc9jKoquJpR2CTznCzn



Scale = 1:64.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.09 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.19 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS					Weight: 172 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-13,7-8: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-10 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing.  
WEBS 1 Row at midpt 4-10, 6-10

#### REACTIONS.

(size) 13=0-3-8, 8=0-3-0  
Max Horz 13=246(LC 9)  
Max Uplift 13=-212(LC 12), 8=-160(LC 12)  
Max Grav 13=1077(LC 2), 8=1016(LC 19)

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

TOP CHORD 3-4=-1203/273, 4-5=-834/284, 5-6=-837/286, 6-7=-810/200, 7-8=-967/226  
BOT CHORD 12-13=-351/1117, 10-12=-252/1057, 9-10=-114/625  
WEBS 4-12=0/344, 4-10=-577/243, 5-10=-172/611, 6-9=-277/116, 3-13=-1183/298,  
7-9=-135/761

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 14-3-8, Exterior(2R) 14-3-8 to 17-3-8, Interior(1) 17-3-8 to 24-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=212, 8=160.



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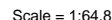
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8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:05 2021 Page 1

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

**TOP CHORD** 3-4=-2680/693, 4-5=-2109/783, 5-6=-2109/787, 6-7=-2168/804, 2-13=-267/95,  
7-8=-2497/815

**BOT CHORD** 12-13=-634/2238, 10-12=-540/2212, 9-10=-513/1613

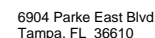
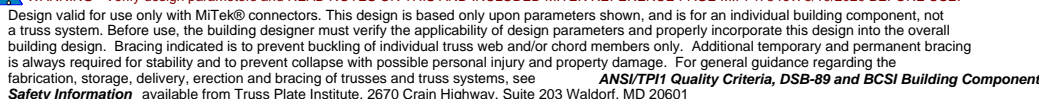
**WEBS** 4-12=0/290, 4-10=-1173/497, 5-10=-605/1171, 6-10=-505/598, 6-9=-987/374,  
3-13=-2581/628, 7-9=-586/1884

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=475, 8=965.
- 9) Girder carries tie-in span(s): 8-0-0 from 4-7-0 to 24-11-0
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 224 lb down and 335 lb up at 20-8-12, and 224 lb down and 335 lb up at 22-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2



February 8, 2021



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760435
2623235	T06	Roof Special Girder	1	2	Job Reference (optional)	

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-54, 3-14=-54, 5-14=-165(F=-111), 5-7=-165(F=-111), 8-13=-20

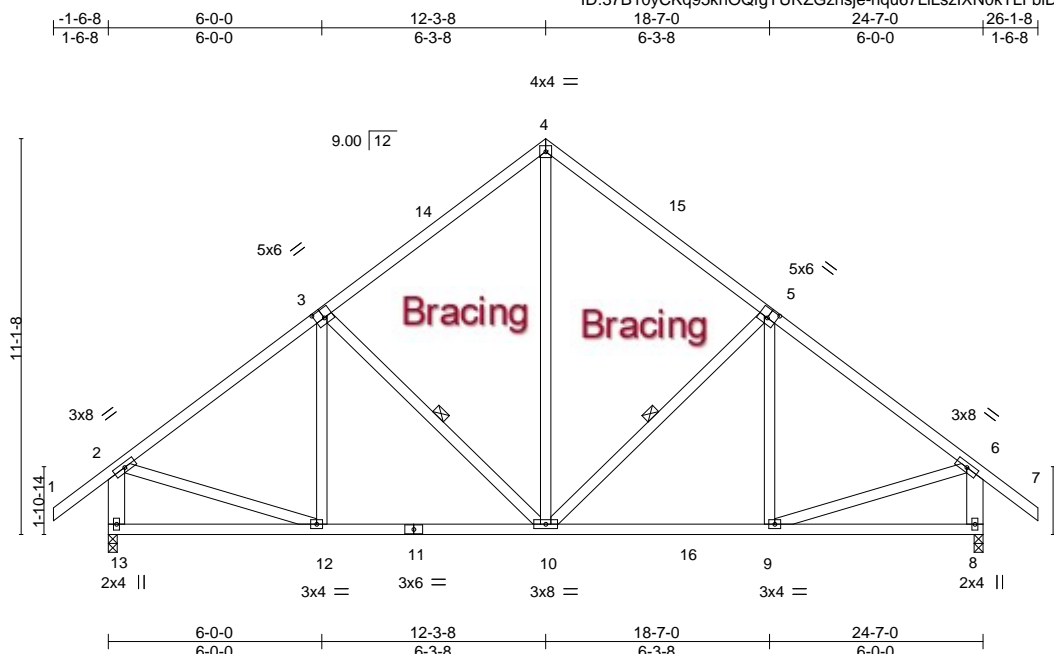
Concentrated Loads (lb)

Vert: 9=-142(F) 15=-142(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760436
2623235	T07	Common	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:06 2021 Page 1  
ID:37B10yCKq95knOQfgYURZGznsje-nqu67LILszIXN0kTLFbiDAz?IPtgoj\_An7w9HMznCzl



Scale = 1:64.8

Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [5:0-3-0,0-3-0]							
<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 0.41	Vert(LL)	-0.05 10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.09 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 171 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-13,6-8: 2x6 SP No.2

#### BRACING-

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

#### REACTIONS.

(size) 13=0-3-0, 8=0-3-0  
Max Horz 13=-285(LC 10)  
Max Uplift 13=-201(LC 12), 8=-201(LC 13)  
Max Grav 13=1100(LC 19), 8=1099(LC 20)

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

TOP CHORD 2-3=-1035/203, 3-4=-835/249, 4-5=-835/249, 5-6=-1033/203, 2-13=-1012/245, 6-8=-1010/245  
BOT CHORD 12-13=-252/298, 10-12=-156/928, 9-10=-65/806  
WEBS 4-10=-154/608, 5-10=-350/207, 3-10=-352/207, 2-12=-64/778, 6-9=-65/778

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-3-8, Exterior(2R) 12-3-8 to 15-3-8, Interior(1) 15-3-8 to 26-1-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 13=201, 8=201.



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



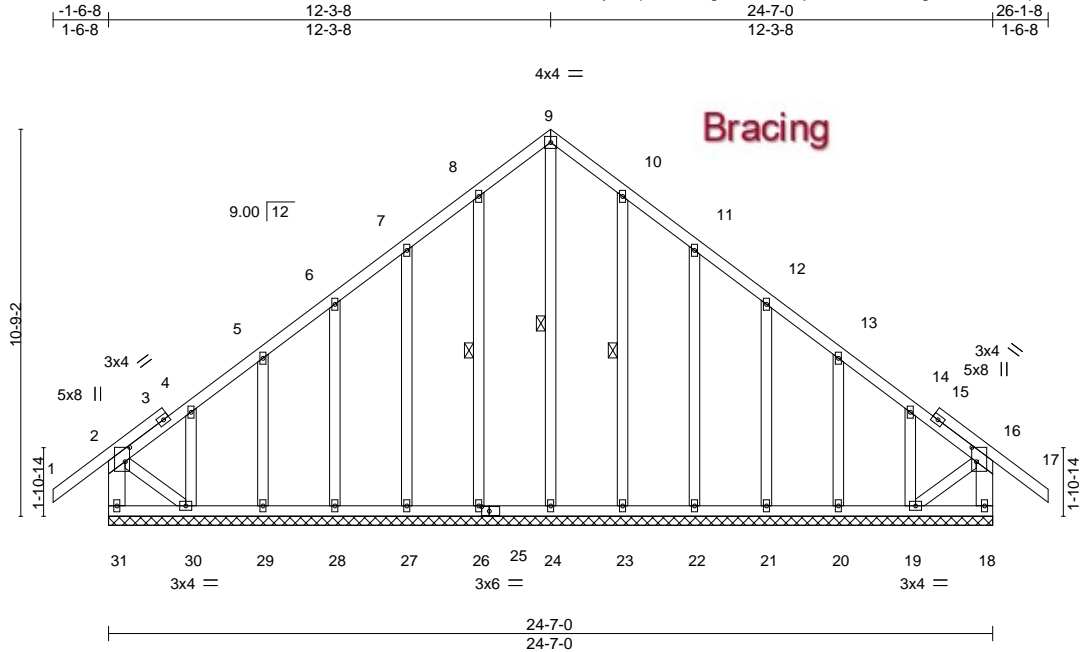
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760437
2623235	T07G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:09 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-BPZFINnD9ug6ETT10N8PqobZ\_d\_2?8AdT59puhznCzi



Scale: 3/16"=1'

Plate Offsets (X,Y)-- [2:0-4-12,0-1-8], [16:0-4-12,0-1-8], [25:0-2-8,0-1-8]												
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d			<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	-0.01	17	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.02	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014		Matrix-S						Weight: 207 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x6 SP No.2 \*Except\*  
 2-30,16-19: 2x4 SP No.3  
 OTHERS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 30-31,18-19.  
 WEBS 1 Row at midpt 9-24, 8-26, 10-23

#### REACTIONS.

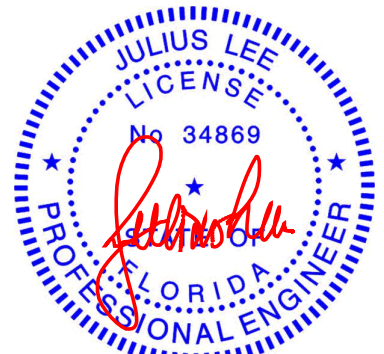
All bearings 24-7-0.  
 (lb) - Max Horz 31=-271(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 18, 26, 27, 28, 29, 23, 22, 21, 20 except 31=-123(LC 8), 30=-190(LC 12), 19=-175(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 18, 24, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19 except 31=284(LC 20)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-31=-263/126

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 12-3-8, Corner(3R) 12-3-8 to 15-3-8, Exterior(2N) 15-3-8 to 26-1-8 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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, 26, 27, 28, 29, 23, 22, 21, 20 except (jt=lb) 31=123, 30=190, 19=175.



Julius Lee PE No.34869  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

February 8, 2021

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

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



6904 Parke East Blvd.  
 Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760438
2623235	T08	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:10 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-gb7dzjorwCozsd2Ea5geN08hg0AHkWXmiluMQ7znCzh

1-6-8	6-0-0	10-3-8	12-3-8	18-7-0	22-4-0	24-7-0	26-1-8
1-6-8	6-0-0	4-3-8	2-0-0	6-3-8	3-9-0	2-3-0	1-6-8

Scale = 1:73.9

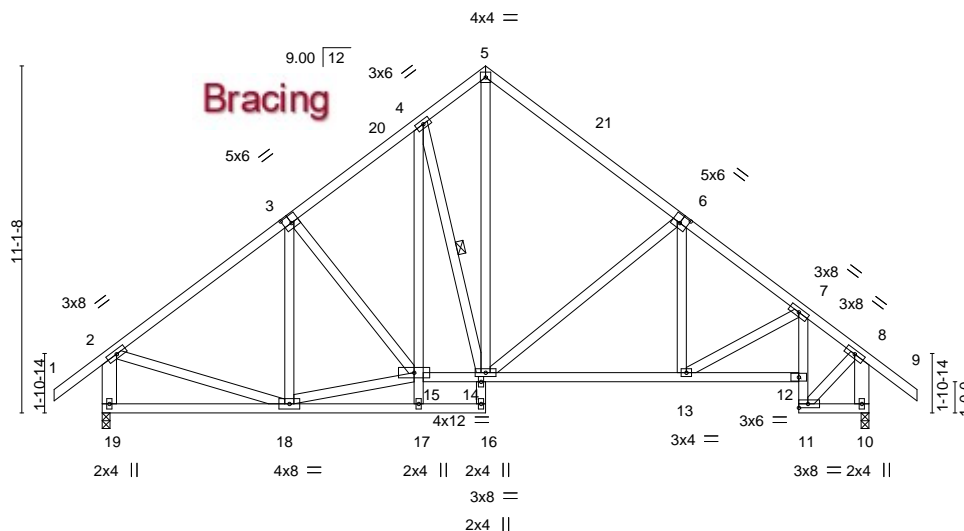


Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [6:0-3-0,0-3-0]						
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>l/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.38	Vert(LL) -0.05 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.69	Vert(CT) -0.11 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.09 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS				Weight: 204 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 4-17: 2x4 SP No.3  
 WEBS 2x4 SP No.3 \*Except\*  
 2-19,8-10: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-3 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 11-12,10-11.  
 10-0-0 oc bracing: 15-17  
 WEBS 1 Row at midpt 4-14

#### REACTIONS.

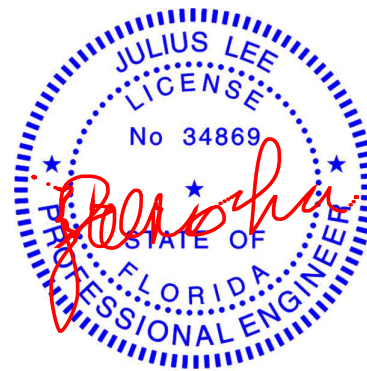
(size) 19=0-3-0, 10=0-3-0  
 Max Horz 19=-285(LC 10)  
 Max Uplift 19=-194(LC 12), 10=-195(LC 13)  
 Max Grav 19=1012(LC 1), 10=1008(LC 1)

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

TOP CHORD 2-3=-940/192, 3-4=-907/236, 4-5=-739/256, 5-6=-835/240, 6-7=-1053/216,  
 7-8=-697/147, 2-19=-957/238, 8-10=-1071/238  
 BOT CHORD 18-19=-261/312, 4-15=-114/294, 14-15=-67/715, 13-14=-71/825, 12-13=-73/658,  
 11-12=-358/59, 7-12=-354/68  
 WEBS 15-18=-130/737, 4-14=-378/201, 5-14=-216/621, 6-14=-354/214, 2-18=-42/640,  
 8-11=-91/673

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-3-8, Exterior(2R) 12-3-8 to 15-3-8, Interior(1) 15-3-8 to 26-1-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=194, 10=195.



Julius Lee PE No.34869  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

February 8, 2021

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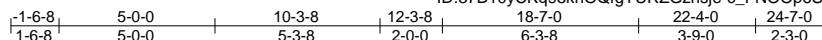
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760439
2623235	T09	Roof Special	4	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

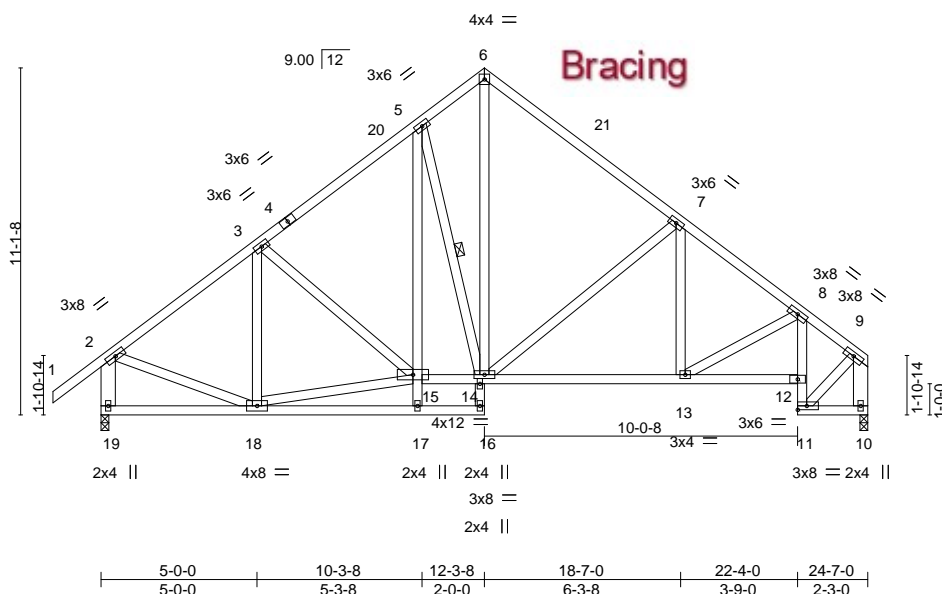
Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:12 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-c\_FNOOp6Sp3h5xBchWi6SRD1Bqr6CPr393NTV0znCzf



Scale = 1:73.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	-0.05 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.11 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 201 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 5-17: 2x4 SP No.3  
 WEBS 2x4 SP No.3 \*Except\*  
 2-19,9-10: 2x6 SP No.2

#### REACTIONS.

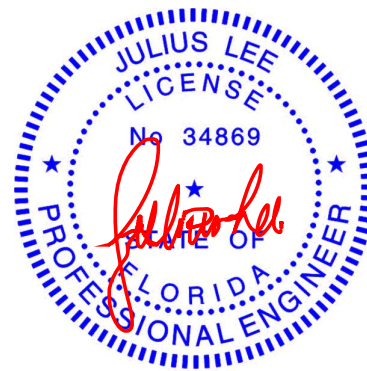
(size) 19=0-3-0, 10=0-3-0  
 Max Horz 19=275(LC 9)  
 Max Uplift 19=193(LC 12), 10=158(LC 13)  
 Max Grav 19=1015(LC 1), 10=909(LC 1)

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

TOP CHORD 2-3=-912/184, 3-5=-926/234, 5-6=-757/271, 6-7=-840/243, 7-8=-1070/230,  
 8-9=-717/142, 2-19=-972/234, 9-10=-977/185  
 BOT CHORD 18-19=-261/265, 5-15=-84/259, 14-15=-82/706, 13-14=-140/837, 12-13=-142/694,  
 11-12=-361/70, 8-12=-358/83  
 WEBS 3-18=-272/78, 15-18=-170/702, 5-14=-397/219, 6-14=-236/649, 7-14=-364/218,  
 2-18=-70/693, 9-11=-122/684

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-3-8, Exterior(2R) 12-3-8 to 15-3-8, Interior(1) 15-3-8 to 24-4-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=193, 10=158.



Julius Lee PE No.34869  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

February 8, 2021

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

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



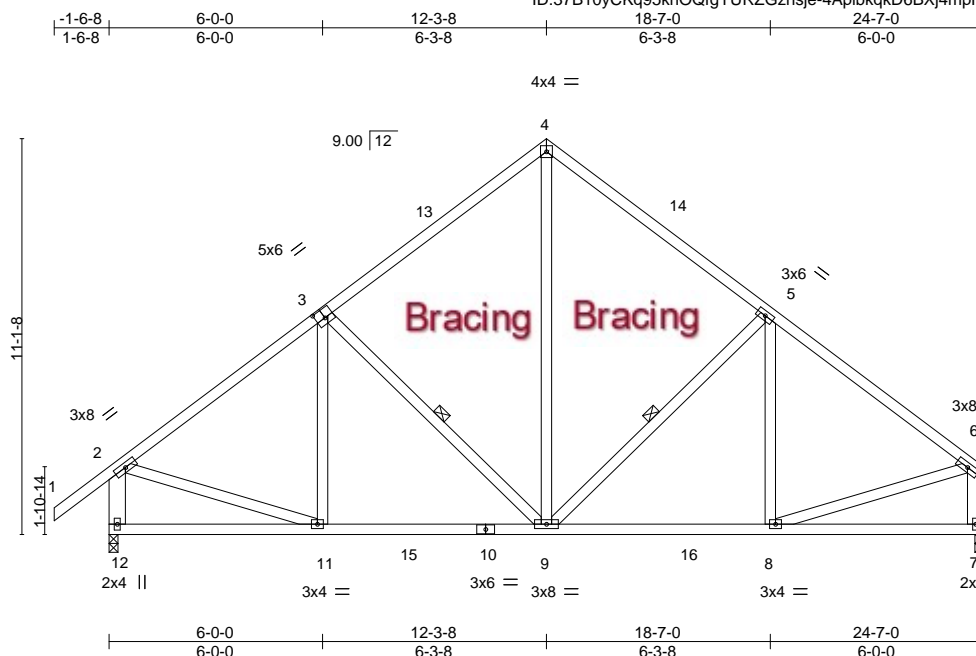
6904 Parke East Blvd.  
 Tampa, FL 33610

Job 2623235	Truss T10	Truss Type Common	Qty 1	Ply 1	IC CONST. - LOT 19 HP	T22760440
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:13 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-4AplbkqkD6BXj4mpFDDL?emBJEGKxufCOi701SznCze



Scale = 1:64.8

Plate Offsets (X,Y)--	[3:0-3-0,0-3-0]								
<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 0.42	Vert(LL)	-0.05 8-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.09 8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.02 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 168 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-12,6-7: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 5-9, 3-9

#### REACTIONS.

(size) 12=0-3-0, 7=0-3-0  
Max Horz 12=275(LC 9)  
Max Uplift 12=200(LC 12), 7=164(LC 13)  
Max Grav 12=1101(LC 19), 7=1007(LC 20)

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

TOP CHORD 2-3=-1035/203, 3-4=-837/248, 4-5=-838/249, 5-6=-1037/198, 2-12=-1012/244, 6-7=-918/182  
BOT CHORD 11-12=-264/279, 9-11=-175/914, 8-9=-124/800  
WEBS 4-9=-156/614, 5-9=-362/209, 3-9=-350/207, 2-11=-64/778, 6-8=-93/771

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-3-8, Exterior(2R) 12-3-8 to 15-3-8, Interior(1) 15-3-8 to 24-4-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=200, 7=164.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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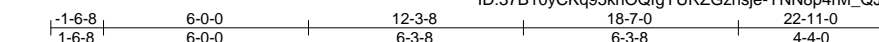
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760441
2623235	T11	Common	4	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:14 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-YNN8p4rM\_QJOLEL?pwkaXslMlecBgMtMcMsaZuznCzd



Scale = 1:67.4

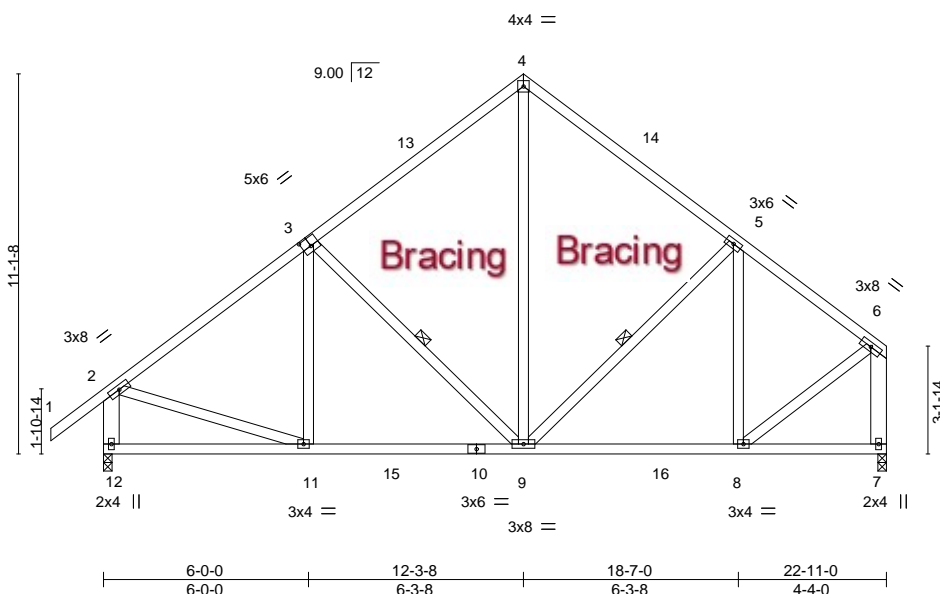


Plate Offsets (X,Y)--	[3:0-3-0,0-3-0]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.04 8-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.08 8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.01 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 164 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 2-12,6-7: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-15 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-9, 5-9

#### REACTIONS.

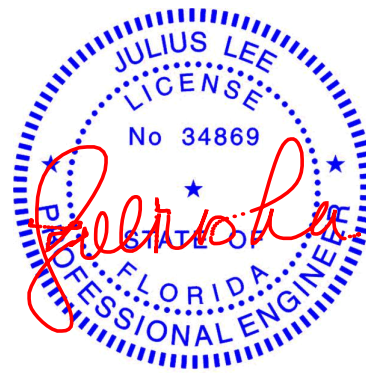
(size) 12=0-3-0, 7=0-3-0  
 Max Horz 12=247(LC 9)  
 Max Uplift 12=187(LC 12), 7=146(LC 12)  
 Max Grav 12=1033(LC 19), 7=936(LC 19)

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

TOP CHORD 2-3=-955/185, 3-4=-738/228, 4-5=-742/228, 5-6=-742/154, 2-12=-945/228, 6-7=-885/169  
 BOT CHORD 11-12=-236/253, 9-11=-215/829, 8-9=-84/570  
 WEBS 3-9=-365/211, 4-9=-128/497, 2-11=-49/708, 6-8=-101/693

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-3-8, Exterior(2R) 12-3-8 to 15-3-8, Interior(1) 15-3-8 to 22-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=187, 7=146.



Julius Lee PE No.34869  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

February 8, 2021

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job 2623235	Truss T12	Truss Type Common	Qty 2	Ply 1	IC CONST. - LOT 19 HP	T22760442
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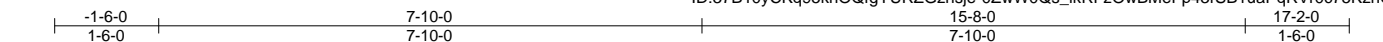
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

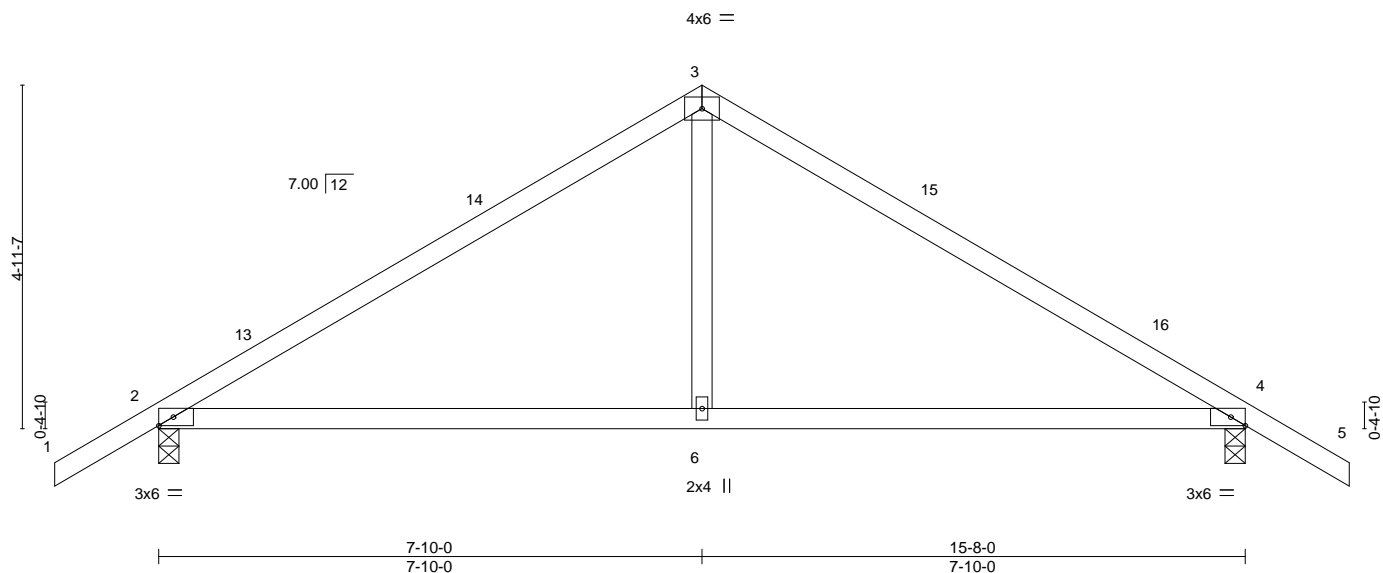
8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:15 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-0ZwW0Qs\_lkRFzOwBMeFp43rSB1uaPqRVr0c75KznCzc

Job Reference (optional)



Scale = 1:33.2



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 0.72	Vert(LL)	-0.11	6-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.20	6-12	>926	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 62 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 10-0-0 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 4=0-3-8  
Max Horz 2=120(LC 11)  
Max Uplift 2=150(LC 12), 4=150(LC 13)  
Max Grav 2=661(LC 1), 4=661(LC 1)

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

TOP CHORD 2-3=-745/167, 3-4=-745/168  
BOT CHORD 2-6=-59/559, 4-6=-59/559  
WEBS 3-6=0/363

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-10-0, Exterior(2R) 7-10-0 to 10-10-0, Interior(1) 10-10-0 to 17-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=150, 4=150.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 33610



Job Reference (optional)

6904 Parke East Blvd  
Tampa, FL 36610

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:18 2021 Page 1  
ID:37B10vCKa95knOQfaYURZGznsie-R8ceeSut2fpagasm2mpWiiT 3Fvac9kyX qnifznCzZ

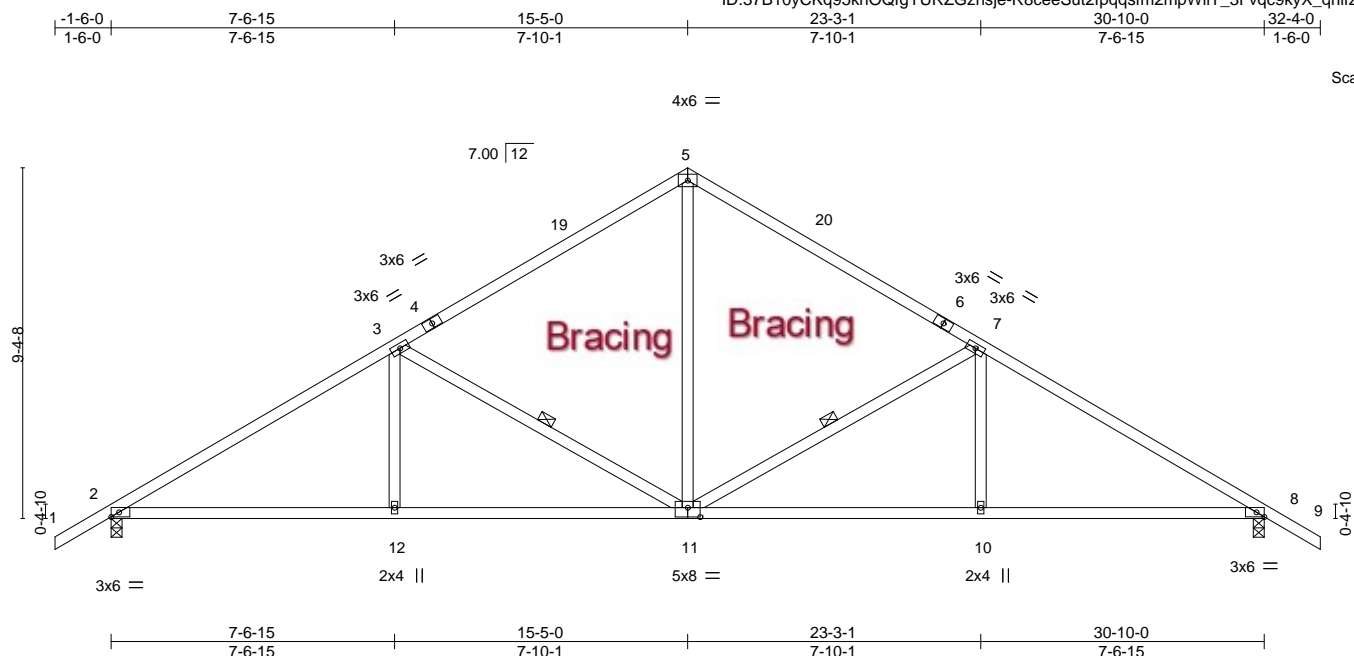


Plate Offsets (X,Y)-- [8:0-2-8,Edge], [11:0-4-0,0-3-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.09 11-12 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.20 11-12 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.07 8 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 156 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

<b>TOP CHORD</b>	Structural wood sheathing directly applied or 3-7-10 oc purlins.
<b>BOT CHORD</b>	Rigid ceiling directly applied or 9-9-2 oc bracing.
<b>WEBS</b>	1 Row at midbt                      7-11. 3-11

**REACTIONS.**

(size) 2=0-3-8, 8=0-3-8  
 Max Horz 2=-217(LC 10)  
 Max Uplift 2=-264(LC 12), 8=-264(LC 13)  
 Max Grav 2=1222(LC 1), 8=1222(LC 1)

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

TOP CHORD 2-3=-1856/362, 3-5=-1264/304, 5-7=-1264/304, 7-8=-1856/362  
BOT CHORD 2-12=-349/1532, 11-12=-349/1532, 10-11=-206/1532, 8-10=-206/1532  
WEBS 5-11=-141/773, 7-11=-656/286, 7-10=0/321, 3-11=-655/286, 3-12=0/321

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0-18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-6-0 to 1-7-0, Interior(1) 1-7-0 to 15-5-0, Exterior(2R) 15-5-0 to 18-6-0, Interior(1) 18-6-0 to 32-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=264, 8=264.



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February 8, 2021



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



6904 Parke East Blvd  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760445
2623235	T13G	GABLE	1	1	Job Reference (optional)	

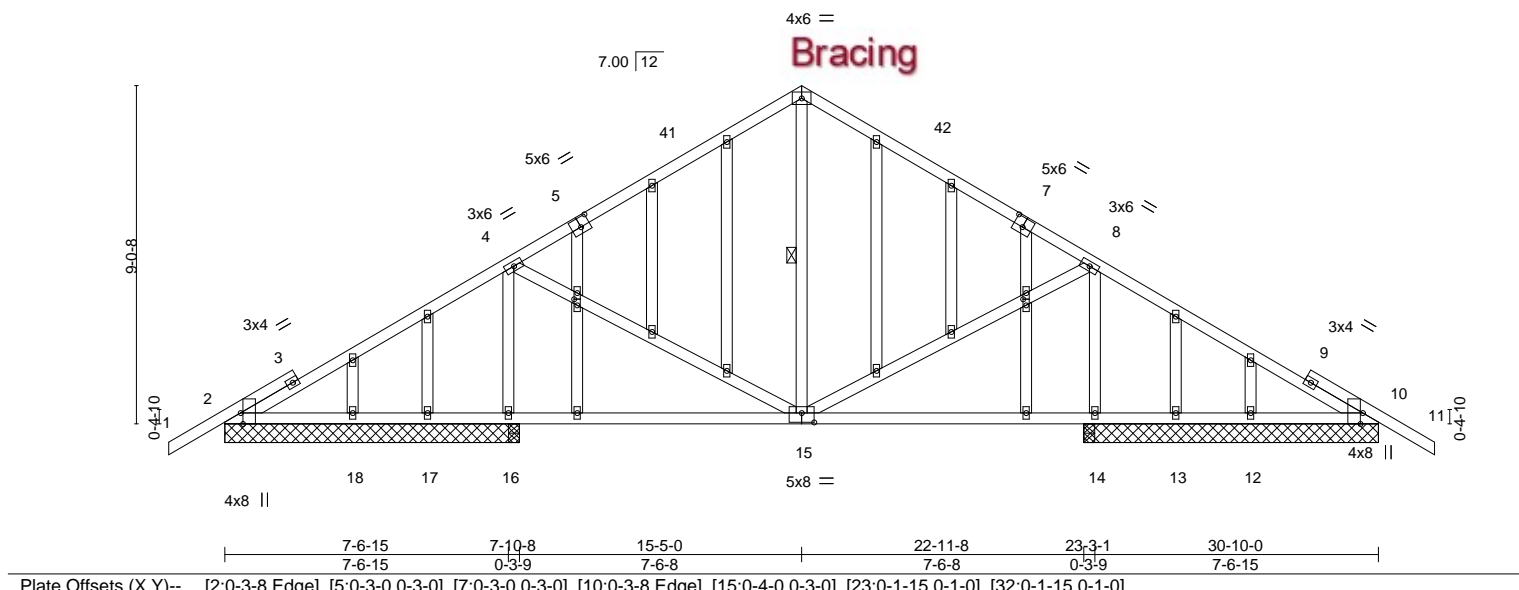
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:20 2021 Page 1

ID:37B10yCKq95knQQfgYURZGznsje-NWkP37w7ZG3Y39p99Br\_n6YKz2fV43iE?lJunYznCzX

-1-6-0	7-6-15	15-5-0	23-3-1	30-10-0	32-4-0
1-6-0	7-6-15	7-10-1	7-10-1	7-6-15	1-6-0

Scale = 1:61.6



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.06	15-16		>999		240			MT20		244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.12	15-16		>999		180					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	10		n/a		n/a					
BCDL	10.0	Code FBC2020/TPI2014			Matrix-MS										Weight: 216 lb		FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 6-15

#### REACTIONS.

All bearings 7-10-8.  
(lb) - Max Horz 2=-210(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 17, 18, 13, 12 except 14=-227(LC 13), 16=-259(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 17, 18, 13, 12, 2, 10 except 14=892(LC 1), 14=892(LC 1), 16=892(LC 1), 16=892(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 4-6=-373/145, 6-8=-373/132  
WEBS 8-15=-13/309, 8-14=-739/263, 4-15=0/309, 4-16=-739/295

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-7-0, Interior(1) 1-7-0 to 15-5-0, Exterior(2R) 15-5-0 to 18-6-0, Interior(1) 18-6-0 to 32-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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, 10, 17, 18, 13, 12, 2, 10 except (jt=lb) 14=227, 16=259.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
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Date:

February 8, 2021

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

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



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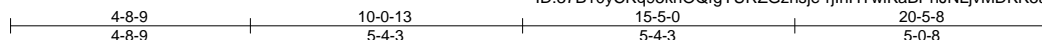
Job 2623235	Truss T14	Truss Type Roof Special	Qty 1	Ply 1	IC CONST. - LOT 19 HP Job Reference (optional)	T22760446
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:21 2021 Page 1

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4x4 =

Scale = 1:45.3

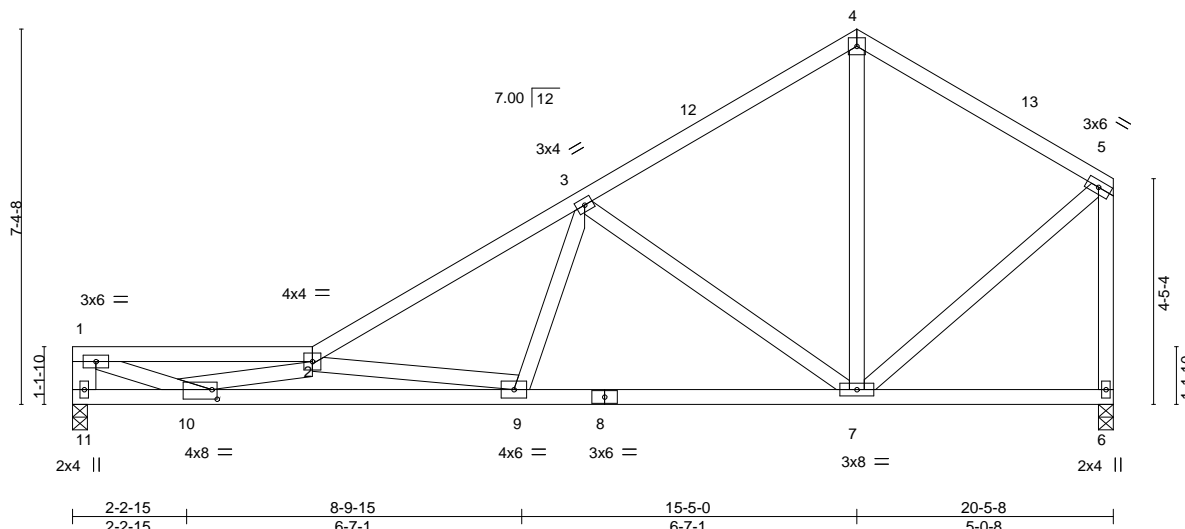


Plate Offsets (X,Y)--	[10:0-1-4,0-2-4]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	-0.12 9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.26 9-10	>943	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.04 6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 120 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
1-11: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-5-15 oc bracing: 9-10.

#### REACTIONS.

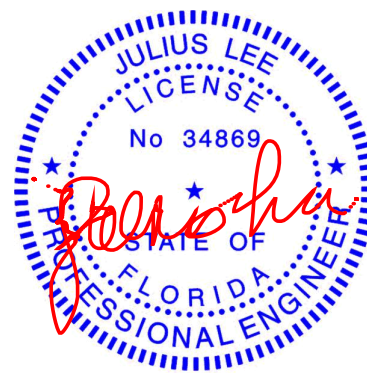
(size) 11=0-3-8, 6=0-3-8  
Max Horz 11=158(LC 12)  
Max Uplift 11=-166(LC 12), 6=-164(LC 12)  
Max Grav 11=743(LC 1), 6=743(LC 1)

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

TOP CHORD 1-11=-694/150, 1-2=-1464/262, 2-3=-1375/265, 3-4=-554/141, 4-5=-536/151, 5-6=-703/174  
BOT CHORD 9-10=-829/2977, 7-9=-313/989  
WEBS 1-10=-234/1448, 2-10=-1598/432, 2-9=-1863/507, 3-9=-65/556, 3-7=-721/269, 4-7=-43/288, 5-7=-123/520

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 15-5-0, Exterior(2R) 15-5-0 to 18-5-0, Interior(1) 18-5-0 to 20-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=166, 6=164.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
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Date:

February 8, 2021

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

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



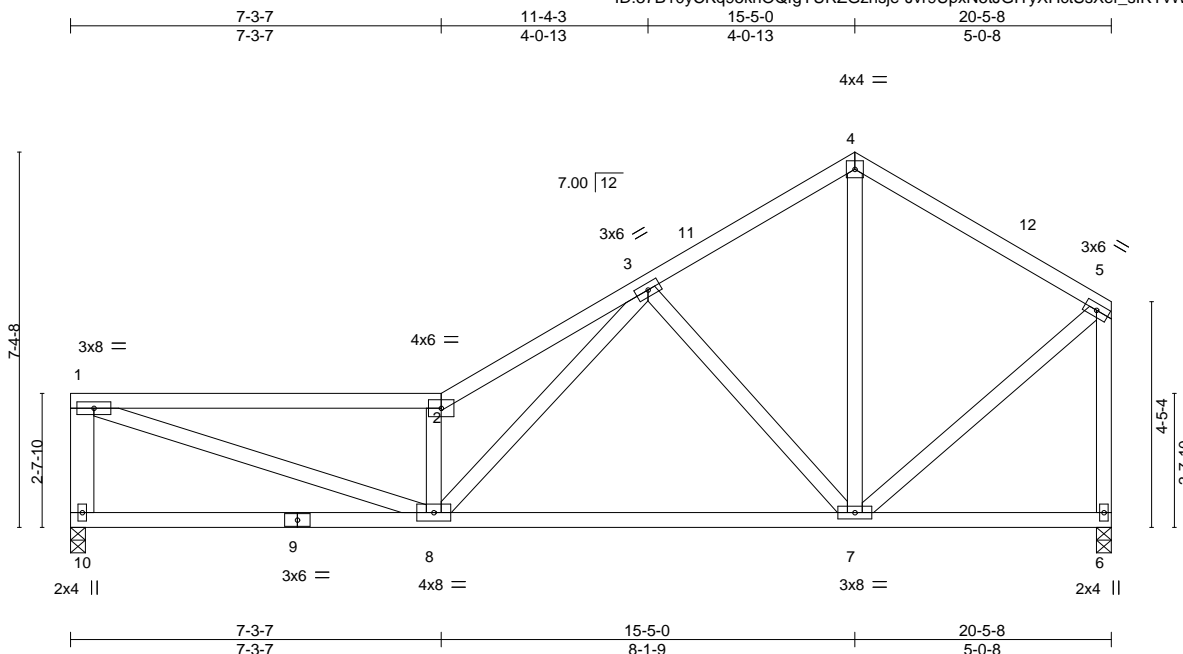
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2623235	Truss T15	Truss Type Roof Special	Qty 1	Ply 1	IC CONST. - LOT 19 HP Job Reference (optional)	T22760447
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:22 2021 Page 1  
ID:37B10yCKq95knOQfgYURZGznsje-Jvr9UpXN5tJGtYXhctSsXef\_slKYvWXsco?rQznCzV



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.12	7-8	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.26	7-8	>934	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.01	6	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 125 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
1-10: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 10=0-3-8, 6=0-3-8  
Max Horz 10=107(LC 12)  
Max Uplift 10=-170(LC 12), 6=-159(LC 12)  
Max Grav 10=743(LC 1), 6=743(LC 1)

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

TOP CHORD 1-10=-678/185, 1-2=-1495/294, 2-3=-1867/419, 3-4=-535/142, 4-5=-542/146,  
5-6=-712/169  
BOT CHORD 7-8=-241/786  
WEBS 1-8=-280/1480, 2-8=-1197/345, 3-8=-271/1173, 3-7=-571/230, 4-7=-55/305,  
5-7=-115/527

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 15-5-0, Exterior(2R) 15-5-0 to 18-5-0, Interior(1) 18-5-0 to 20-3-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=170, 6=159.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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



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Tampa, FL 36610



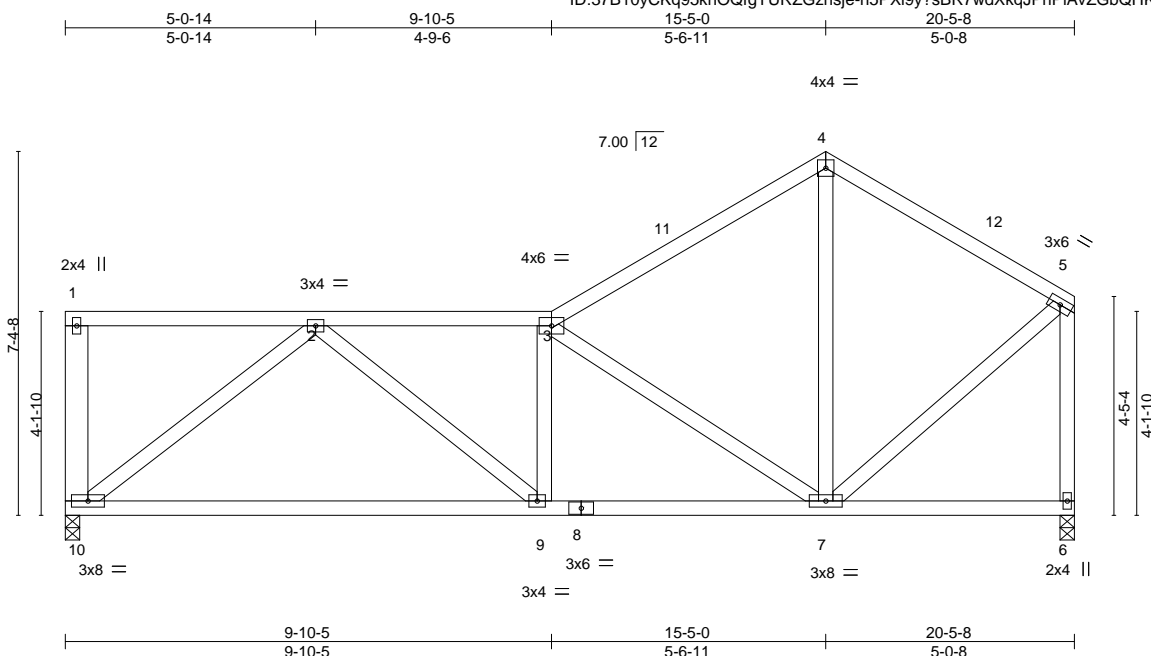
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760448
2623235	T16	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:23 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-n5PXi9y?sBR7wdXkqJPhPIAvZGbQHKJhhGYNTznCzU



Scale = 1:46.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	-0.21 9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.43 9-10	>562	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.02 6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 129 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
1-10: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 10=0-3-8, 6=0-3-8  
Max Horz 10=70(LC 9)  
Max Uplift 10=-178(LC 12), 6=-152(LC 12)  
Max Grav 10=743(LC 1), 6=743(LC 1)

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

TOP CHORD 2-3=-1016/203, 3-4=-543/130, 4-5=-532/143, 5-6=-696/165  
BOT CHORD 9-10=-241/711, 7-9=-261/1018  
WEBS 2-10=-862/237, 2-9=-32/408, 3-7=-744/207, 4-7=-26/267, 5-7=-117/516

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 15-5-0, Exterior(2R) 15-5-0 to 18-5-0, Interior(1) 18-5-0 to 20-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=178, 6=152.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

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Tampa, FL 36610

Job 2623235	Truss T17G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - LOT 19 HP T22760450
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:25 2021 Page 1  
ID:37B10yCKq95knOQfgYURZGznsje-kUXl6rzGOohq9wh6ykr9UAG8s3LsIL?z8a1fSlznCzS

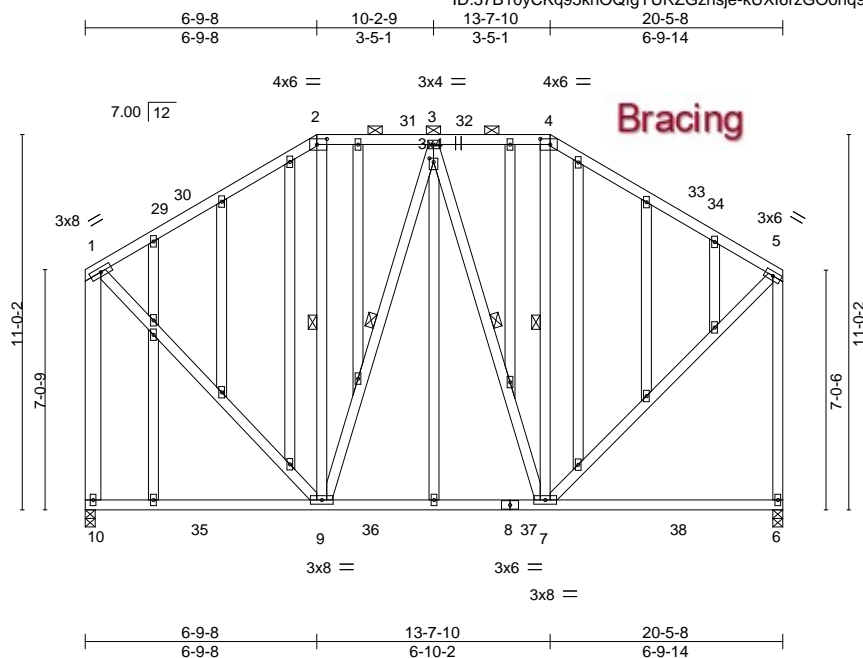


Plate Offsets (X,Y)-- [2:0-3-8,0-2-0], [3:0-1-4,0-1-8], [4:0-3-8,0-2-0]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	-0.08 6-7	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.14 6-7	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.00 6	n/a	n/a
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS				
						<b>PLATES</b>	<b>GRIP</b>
						MT20	244/190
						Weight: 277 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
1-10: 2x6 SP No.2  
OTHERS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals, and 2'-0-0 oc purlins (6'-0-0 max.): 2-4.  
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.  
WEBS 1 Row at midpt 2-9, 3-9, 3-7, 4-7

#### REACTIONS.

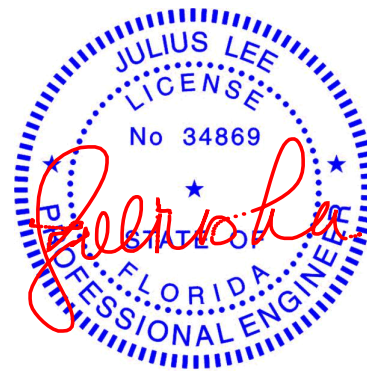
(size) 10=0-3-8, 6=0-3-8  
Max Horz 10=-86(LC 8)  
Max Uplift 10=-109(LC 12), 6=-109(LC 13)  
Max Grav 10=868(LC 2), 6=867(LC 2)

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

TOP CHORD 1-2=-512/122, 2-3=-378/144, 3-4=-383/145, 4-5=-516/121, 1-10=-729/150,  
5-6=-732/147  
BOT CHORD 7-9=-82/397  
WEBS 1-9=-72/505, 5-7=-68/516

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 6-9-8, Exterior(2R) 6-9-8 to 11-0-7, Interior(1) 11-0-7 to 13-7-10, Exterior(2R) 13-7-10 to 17-10-9, Interior(1) 17-10-9 to 20-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 100 lb uplift at joint(s) except (it=lb) 10=109, 6=109.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

February 8, 2021

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6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760451
2623235	T18	Piggyback Base Girder	1	2	Job Reference (optional)	

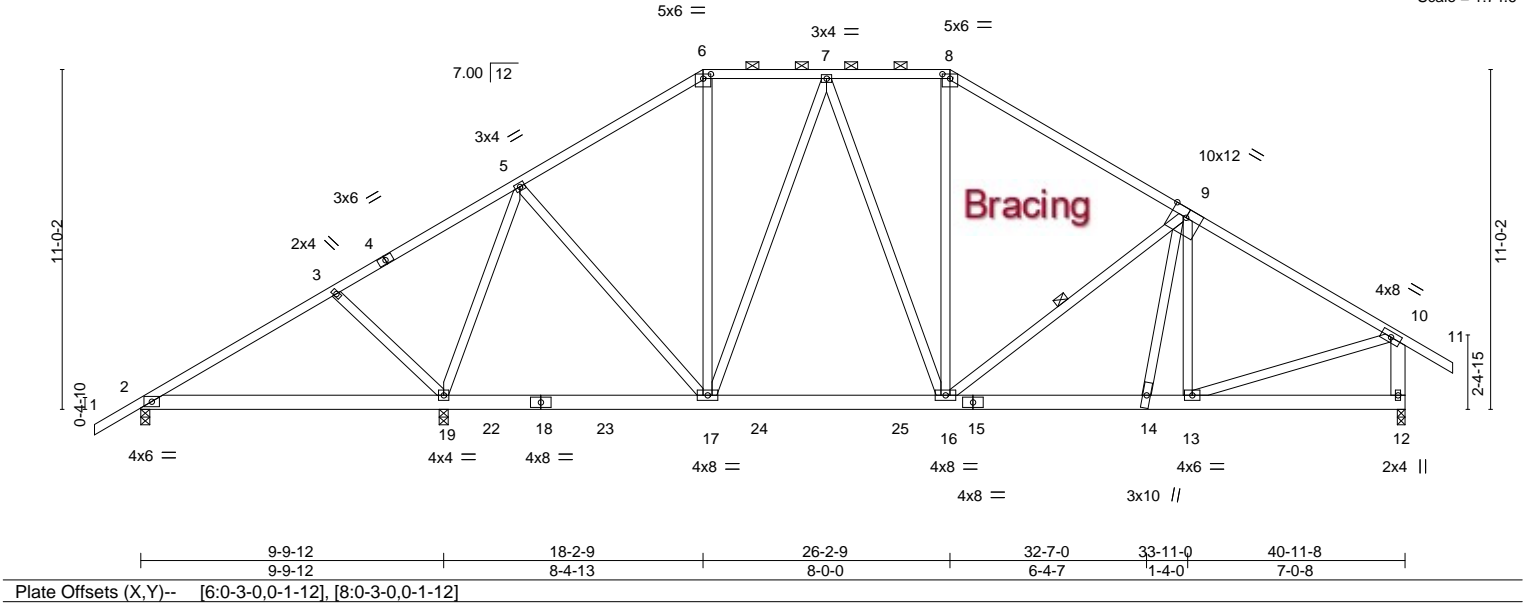
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:27 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-gtf2XX?WwQxYPERV39TdZbLZ5t1HD8tGcuWmWeznCzQ

-1-6-0	6-4-0	12-3-6	18-2-9	22-2-9	26-2-9	33-11-0	40-11-8	42-6-0
1-6-0	6-4-0	5-11-6	5-11-3	4-0-0	4-0-0	7-8-7	7-0-8	1-6-8

Scale = 1:74.6



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760451
2623235	T18	Piggyback Base Girder	1	2	Job Reference (optional)	

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-6=-54, 6-8=-54, 8-10=-54, 10-11=-54, 2-12=-20
- Concentrated Loads (lb)
- Vert: 14=-2853(B)



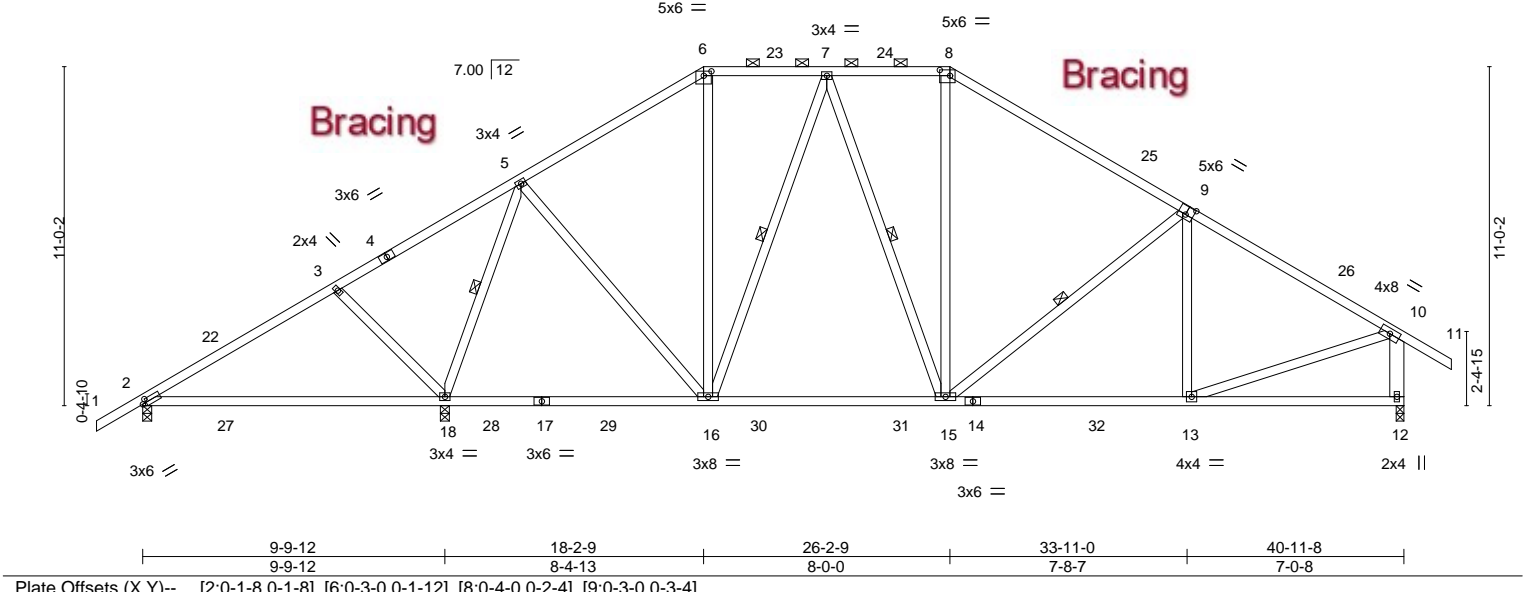
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760452
2623235	T19	Piggyback Base	5	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:29 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-cFnpYC1mS1CGeY?iBaV5e0QtOhdTh64Z3C?sbWznCzO

1-6-0	6-4-0	12-3-6	18-2-9	22-2-9	26-2-9	33-11-0	40-11-8	42-6-0
1-6-0	6-4-0	5-11-6	5-11-3	4-0-0	4-0-0	7-8-7	7-0-8	1-6-8

Scale = 1:74.8



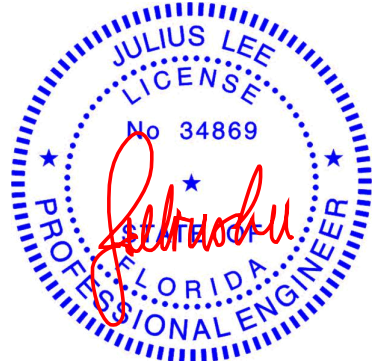
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.25 18-21	>478	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.37 18-21	>321	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 269 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-14 max.): 6-8.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except*	6-0-0 oc bracing: 2-18.
10-12: 2x6 SP No.2	WEBS 1 Row at midpt 5-18, 7-16, 7-15, 9-15

REACTIONS.	(size) 2=0-3-8, 18=0-3-8, 12=0-3-0
	Max Horz 2=282(LC 11)
	Max Uplift 2=-67(LC 12), 18=-342(LC 12), 12=-257(LC 13)
	Max Grav 2=375(LC 23), 18=1858(LC 2), 12=1362(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-5=-66/317, 5-6=-890/228, 6-7=-708/217, 7-8=-918/279, 8-9=-1154/258, 9-10=-1398/259, 10-12=-1260/274
BOT CHORD	16-18=-131/348, 15-16=-111/842, 13-15=-145/1137
WEBS	3-18=-343/205, 5-18=-1335/258, 5-16=-36/652, 6-16=-50/250, 7-16=-437/148, 7-15=-95/320, 8-15=-22/313, 9-15=-391/206, 10-13=-115/1130

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-2, Interior(1) 2-7-2 to 18-2-9, Exterior(2R) 18-2-9 to 24-0-1, Interior(1) 24-0-1 to 26-2-9, Exterior(2R) 26-2-9 to 32-0-1, Interior(1) 32-0-1 to 42-6-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 18=342, 12=257.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760453
2623235	T20	Jack-Partial	3	1	Job Reference (optional)	

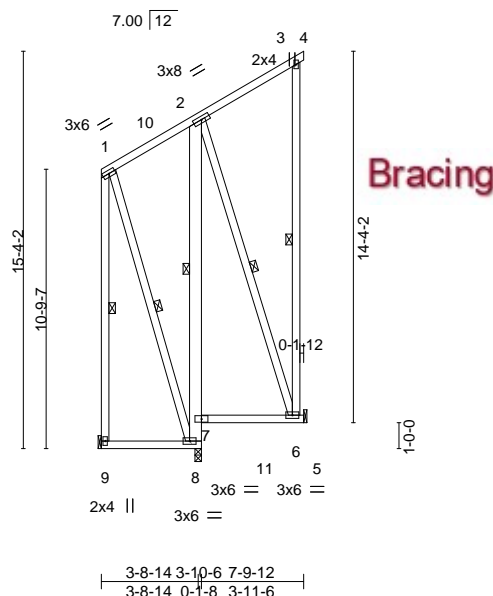
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:30 2021 Page 1

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2-0-15 3-10-6 5-8-5 7-9-12  
2-0-15 1-9-7 1-9-15 2-1-7



Scale = 1:89.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.03	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.01	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS						Weight: 124 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-8: 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
3-6: 2x4 SP No.2

**REACTIONS.** (size) 9=Mechanical, 8=0-3-0, 6=Mechanical  
Max Horz 9=153(LC 12)  
Max Uplift 9=-25(LC 10), 8=-112(LC 12), 6=-291(LC 12)  
Max Grav 9=250(LC 12), 8=385(LC 19), 6=255(LC 19)

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

TOP CHORD 1-9=-256/103  
BOT CHORD 7-8=-324/0  
WEBS 1-8=-139/268, 2-6=-152/268

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 8=112, 6=291.

#### 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, Except:  
6-0-0 oc bracing: 7-8.  
1 Row at midpt 2-7  
1 Row at midpt 1-9, 1-8, 3-6, 2-6



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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



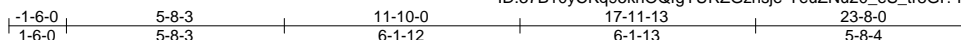
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760454
2623235	T21	Scissor	5	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:31 2021 Page 1

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4x4 ||

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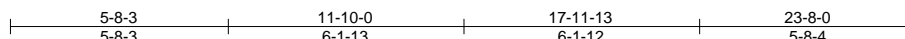
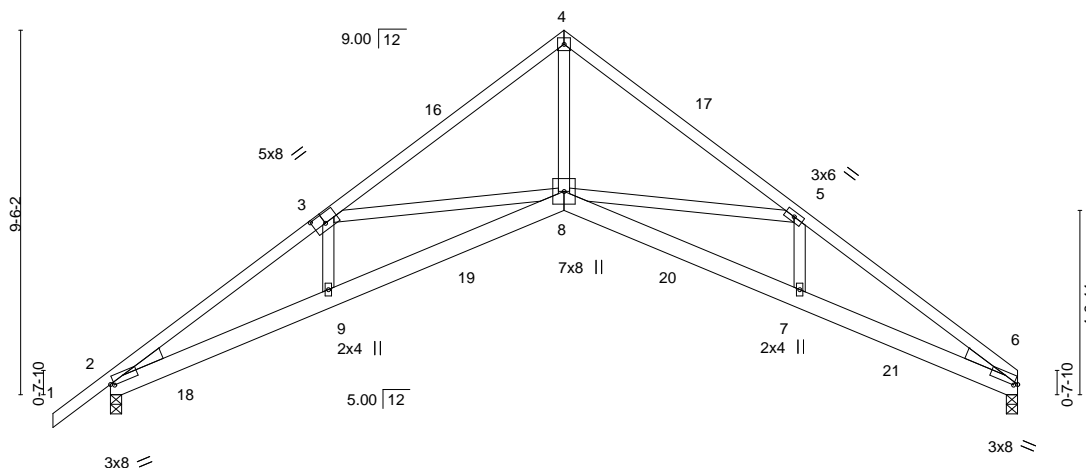


Plate Offsets (X,Y)-- [2:0-1-2,0-0-11], [3:0-3-12,0-3-0], [6:0-1-2,0-0-11]

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 0.64	Vert(LL)	-0.14	8-9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.27	8-9	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.25	6	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 141 lb	FT = 20%

#### LUMBER-

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

#### WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.

#### REACTIONS.

(size) 6=0-3-8, 2=0-3-8  
Max Horz 2=212(LC 9)  
Max Uplift 6=-166(LC 13), 2=-199(LC 12)  
Max Grav 6=873(LC 1), 2=959(LC 1)

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

TOP CHORD 2-3=-2198/1128, 3-4=-1662/717, 4-5=-1659/729, 5-6=-2213/1124  
BOT CHORD 2-9=-885/1814, 8-9=-840/1864, 7-8=-803/1875, 6-7=-856/1830  
WEBS 4-8=-725/1540, 5-8=-514/460, 3-8=-505/464

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior(1) 14-10-0 to 23-8-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=166, 2=199.



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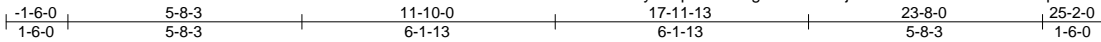


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760455
2623235	T21G	GABLE	1	1	Job Reference (optional)	

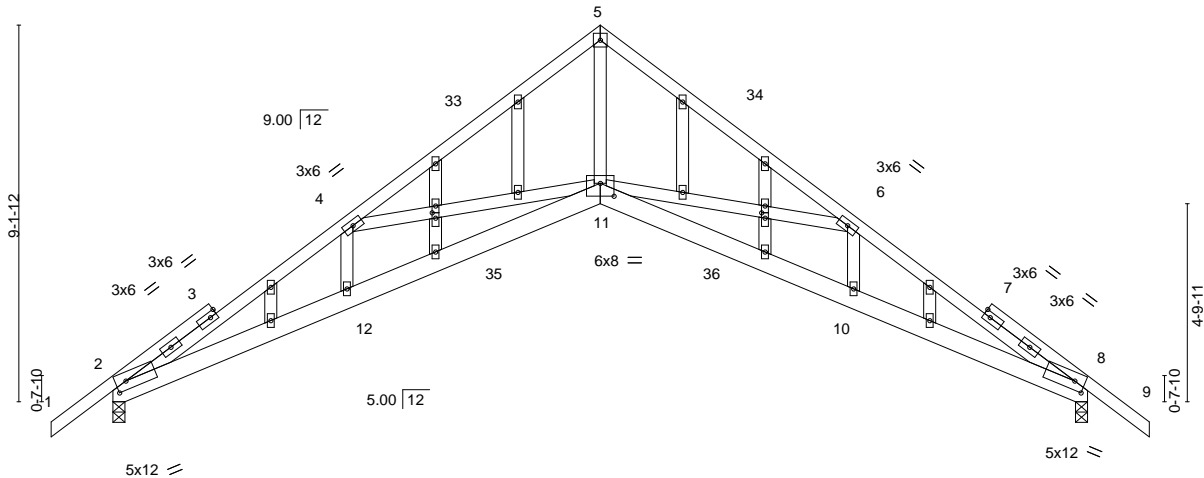
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:33 2021 Page 1  
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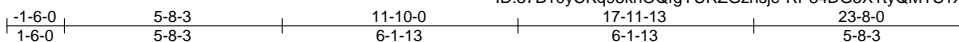


Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760456
2623235	T22	Scissor	2	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:35 2021 Page 1

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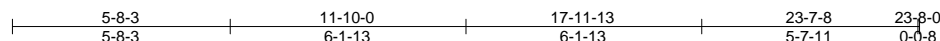
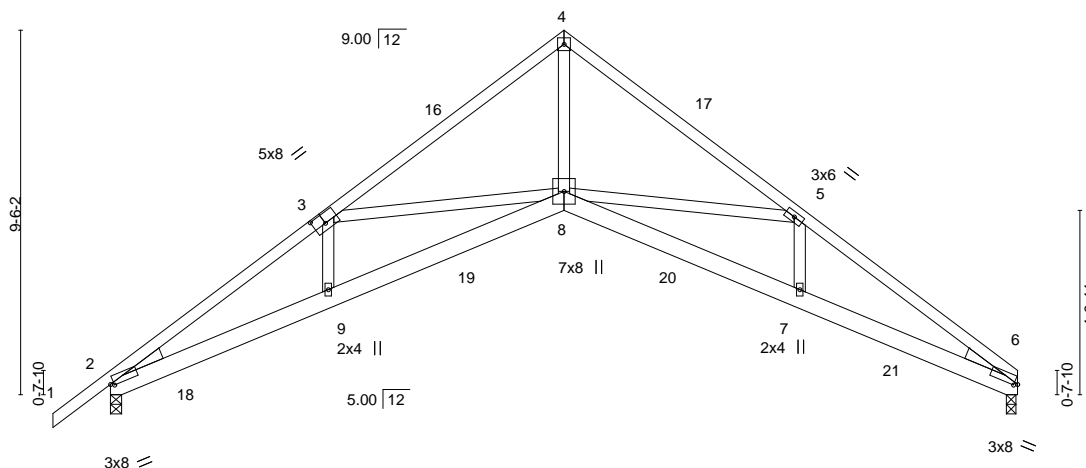


Plate Offsets (X,Y)-- [2:0-1-2,0-0-11], [3:0-3-12,0-3-0], [6:0-1-2,0-0-11]

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 0.64	Vert(LL)	-0.14	8-9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.27	8-9	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.25	6	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 141 lb	FT = 20%

#### LUMBER-

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

WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.

#### REACTIONS.

(size) 6=0-3-0, 2=0-3-8  
Max Horz 2=212(LC 11)  
Max Uplift 6=-166(LC 13), 2=-199(LC 12)  
Max Grav 6=873(LC 1), 2=959(LC 1)

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

TOP CHORD 2-3=-2197/1128, 3-4=-1662/717, 4-5=-1659/729, 5-6=-2213/1124  
BOT CHORD 2-9=-885/1814, 8-9=-840/1864, 7-8=-803/1875, 6-7=-857/1830  
WEBS 4-8=-725/1540, 5-8=-514/460, 3-8=-505/464

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior(1) 14-10-0 to 23-8-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=166, 2=199.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760457
2623235	T23	Scissor	2	1	Job Reference (optional)	

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8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:36 2021 Page 1

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4x6 ==

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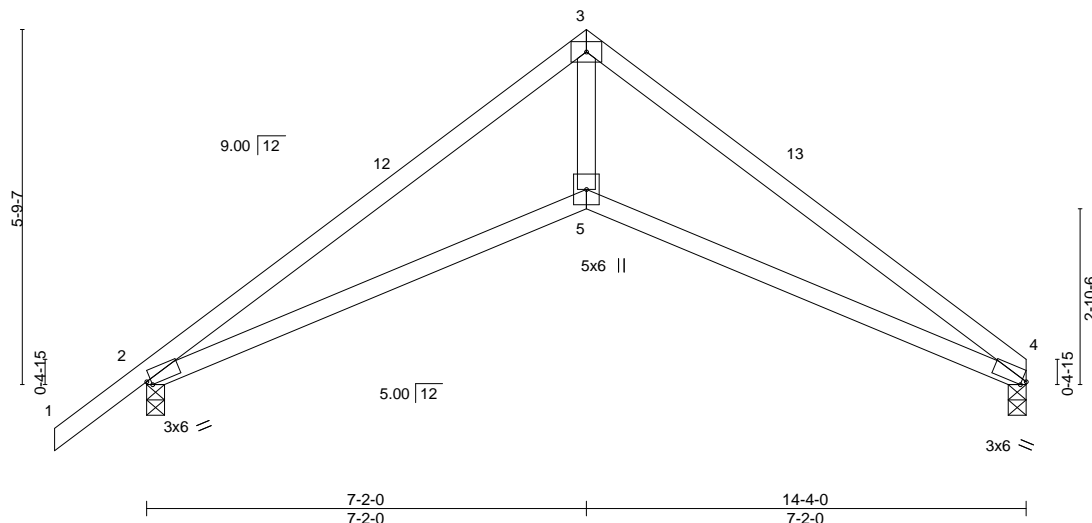


Plate Offsets (X,Y)-- [2:0-0-14,Edge], [4:0-0-14,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.12	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.20	5-8	>878	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.05	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 57 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 4=0-3-8, 2=0-3-8  
Max Horz 2=135(LC 11)  
Max Uplift 4=100(LC 13), 2=135(LC 12)  
Max Grav 4=526(LC 1), 2=616(LC 1)

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

TOP CHORD 2-3=-1117/199, 3-4=-1114/207  
BOT CHORD 2-5=-115/905, 4-5=-111/907  
WEBS 3-5=-69/842

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-2-0, Exterior(2R) 7-2-0 to 10-2-0, Interior(1) 10-2-0 to 14-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=135.



Julius Lee PE No.34869  
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6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760458
2623235	T23G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:37 2021 Page 1  
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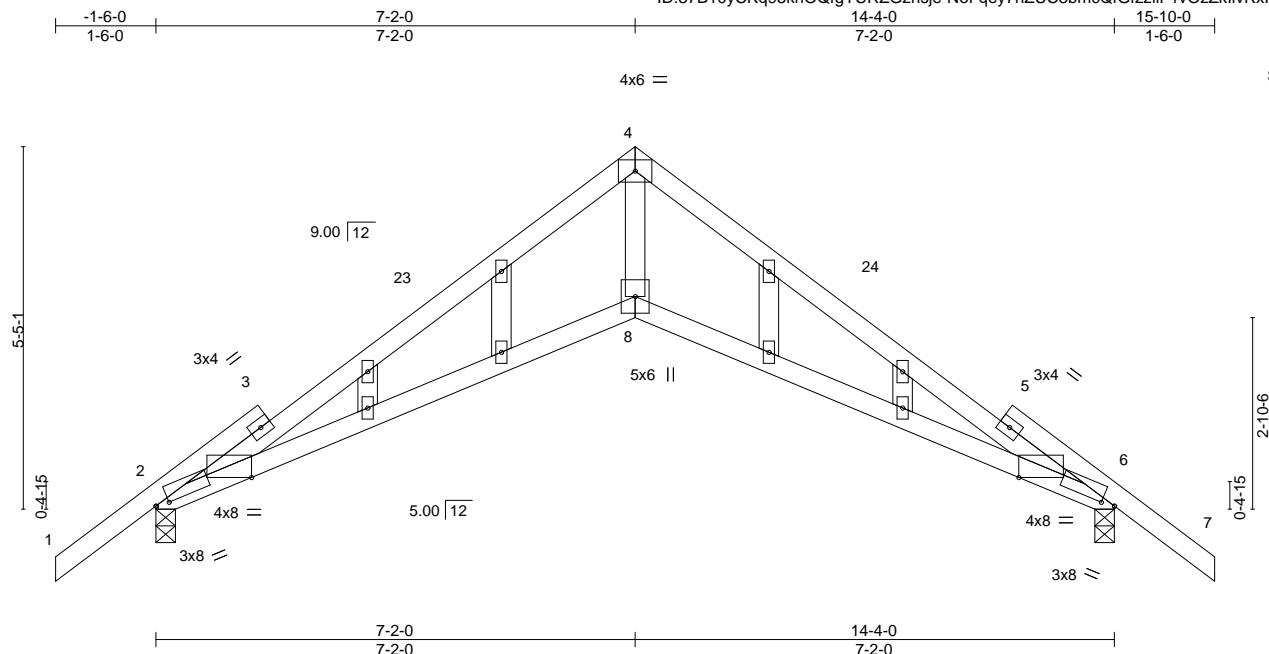


Plate Offsets (X,Y)--		[2:0-2-7,0-0-4], [2:1-5-2,Edge], [6:0-2-7,0-0-4], [6:1-5-2,Edge]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL		1.25		TC	0.63	Vert(LL)	0.15	8-19	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL		1.25		BC	0.67	Vert(CT)	-0.25	8-19	>663	180			
BCLL	0.0 *	Rep Stress Incr		YES		WB	0.37	Horz(CT)	0.11	6	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014				Matrix-MS								Weight: 69 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 3-11-2 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=135(LC 10)  
Max Uplift 2=137(LC 12), 6=137(LC 13)  
Max Grav 2=608(LC 1), 6=608(LC 1)

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

TOP CHORD 2-4=-1174/143, 4-6=-1173/180  
BOT CHORD 2-8=-88/1037, 6-8=-82/1031  
WEBS 4-8=-62/967

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-7, Interior(1) 1-6-7 to 7-2-0, Exterior(2R) 7-2-0 to 10-2-0, Interior(1) 10-2-0 to 15-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=137, 6=137.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760459
2623235	T24	Scissor	5	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:38 2021 Page 1

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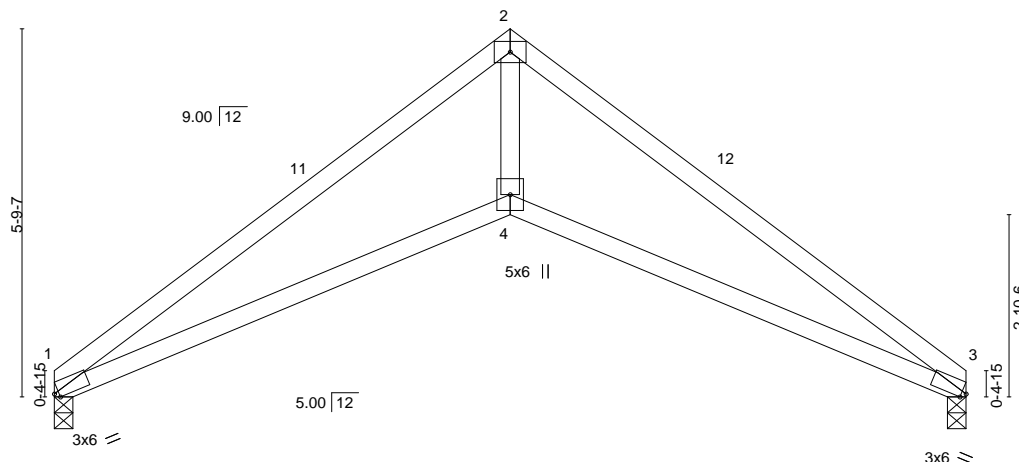


Plate Offsets (X,Y)--	[1:0-0-14,Edge], [3:0-0-14,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	0.11 4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.19 4-7	>884	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.05 3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 54 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 1=0-3-8, 3=0-3-8  
Max Horz 1=118(LC 9)  
Max Uplift 1=101(LC 12), 3=101(LC 13)  
Max Grav 1=530(LC 1), 3=530(LC 1)

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

TOP CHORD 1-2=-1133/207, 2-3=-1133/217  
BOT CHORD 1-4=-126/924, 3-4=-121/924  
WEBS 2-4=-80/860

#### NOTES-

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



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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



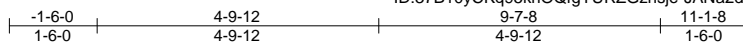
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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760460
2623235	T25	Common	2	1	Job Reference (optional)	

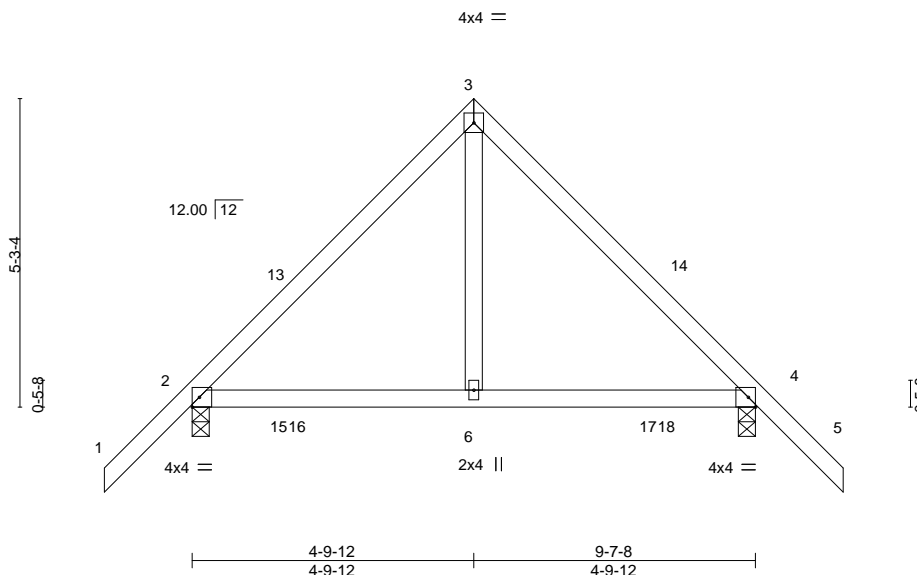
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:39 2021 Page 1  
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Scale = 1:39.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.03 6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.03 6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS					Weight: 49 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

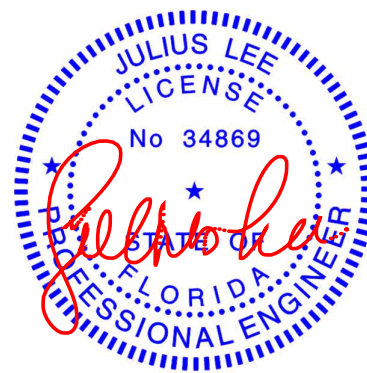
(size) 2=0-3-8, 4=0-3-8  
Max Horz 2=-139(LC 10)  
Max Uplift 2=-95(LC 12), 4=-95(LC 13)  
Max Grav 2=437(LC 1), 4=437(LC 1)

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

TOP CHORD 2-3=-354/237, 3-4=-354/237

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-9-12, Exterior(2R) 4-9-12 to 7-9-12, Interior(1) 7-9-12 to 11-1-8 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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

February 8, 2021

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**ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component**



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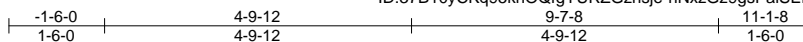
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760461
2623235	T25G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:40 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-nNxzGz9gsPaiSEK?KOCgbKNrD6ZImAtBbP9yUOznCzD



4x4 =

Scale = 1:36.1

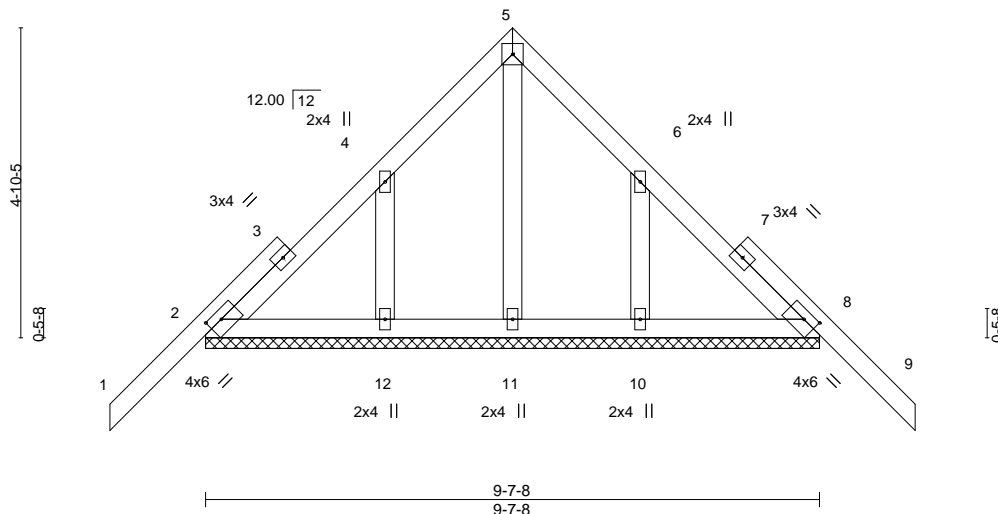


Plate Offsets (X,Y)--		[2:0-2-9,0-1-10], [8:0-2-9,0-1-10]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.25	Vert(LL)	-0.01 9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.05	Vert(CT)	-0.01 9	n/r	120		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.06	Horz(CT)	0.00 8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 58 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 9-7-8.

(lb) - Max Horz 2=130(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 12=112(LC 12), 10=114(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 4-9-12, Corner(3R) 4-9-12 to 7-9-12, Exterior(2N) 7-9-12 to 11-1-8 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 12=112, 10=114.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
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Date:

February 8, 2021

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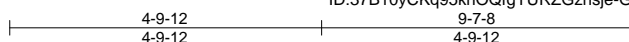
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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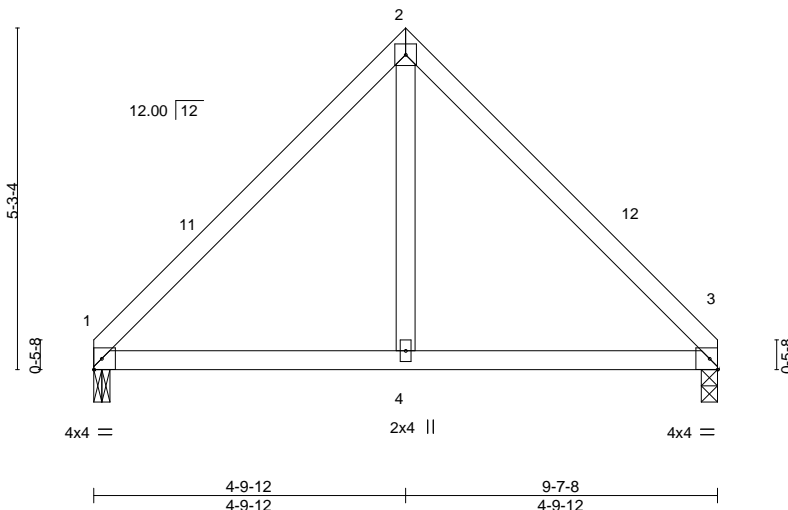


Job 2623235	Truss T26	Truss Type Common	Qty 4	Ply 1	IC CONST. - LOT 19 HP T22760462
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					



4x4 =

Scale = 1:35.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.03	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	-0.03	4-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
									Weight: 42 lb FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 1=0-3-0, 3=0-3-0  
Max Horz 1=106(LC 9)  
Max Uplift 1=61(LC 13), 3=61(LC 12)  
Max Grav 1=356(LC 1), 3=356(LC 1)

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

TOP CHORD 1-2=-375/182, 2-3=-375/182

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-9-12, Exterior(2R) 4-9-12 to 7-9-12, Interior(1) 7-9-12 to 9-7-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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February 8, 2021

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



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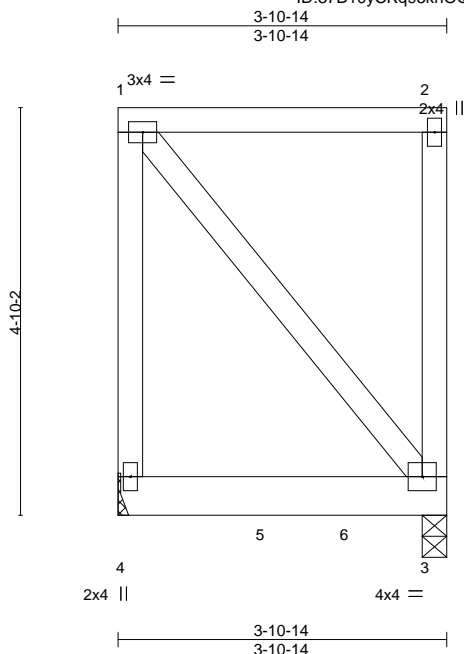
Job 2623235	Truss TG01	Truss Type Flat Girder	Qty 1	Ply 1	IC CONST. - LOT 19 HP Job Reference (optional)	T22760463
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:42 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-kl3jhfBwO1qQiYUNSpE8glTB\_wCSE4GU2je2YGznCzB



Scale = 1:27.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23	Vert(LL)	0.01 3-4	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.20	Vert(CT)	-0.01 3-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 35 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 3-10-14 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 4=Mechanical, 3=0-3-8  
Max Uplift 4=119(LC 4), 3=159(LC 4)  
Max Grav 4=227(LC 1), 3=272(LC 1)

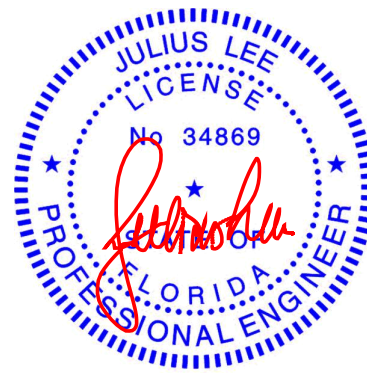
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=119, 3=159.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 117 lb up at 1-9-10, and 116 lb down and 116 lb up at 2-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-54, 3-4=-20  
Concentrated Loads (lb)  
Vert: 5=-116(B) 6=-116(B)



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
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Date:

February 8, 2021

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

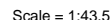
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:44 2021 Page 1

ID:37B10vCkq95knQQfgYlJB7Gzpsie-q8BT6l CAwe58xrem7EHclAYalkwPiwOmW179d9znCz9



WEBS 1-5=-222/1474, 3-5=-221/1473

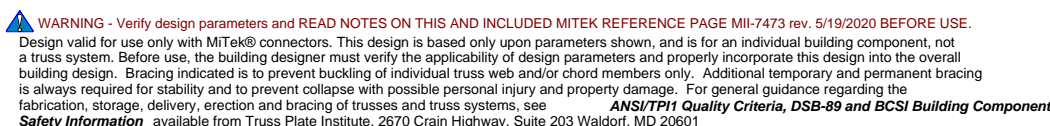
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* 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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=315, 4=608.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1100 lb down and 298 lb up at 9-5-14 on top chord, and 851 lb down and 124 lb up at 1-10-4, 851 lb down and 124 lb up at 3-10-4, and 851 lb down and 124 lb up at 5-10-4, and 851 lb down and 124 lb up at 7-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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



February 8, 2021

Continued on page 2



6904 Parke East Blvd  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760464
2623235	TG02	Flat Girder	1	2	Job Reference (optional)	

LOAD CASE(S)
Standard

Uniform Loads (plf)  
Vert: 1-3=-54, 4-6=-20  
Concentrated Loads (lb)  
Vert: 3=-1100(F) 7=-723 8=-723 9=-723 10=-723



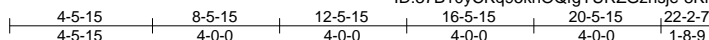
Job 2623235	Truss V01	Truss Type Valley	Qty 1	Ply 1	IC CONST. - LOT 19 HP T22760465
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Builders FirstSource (Jacksonville, FL),

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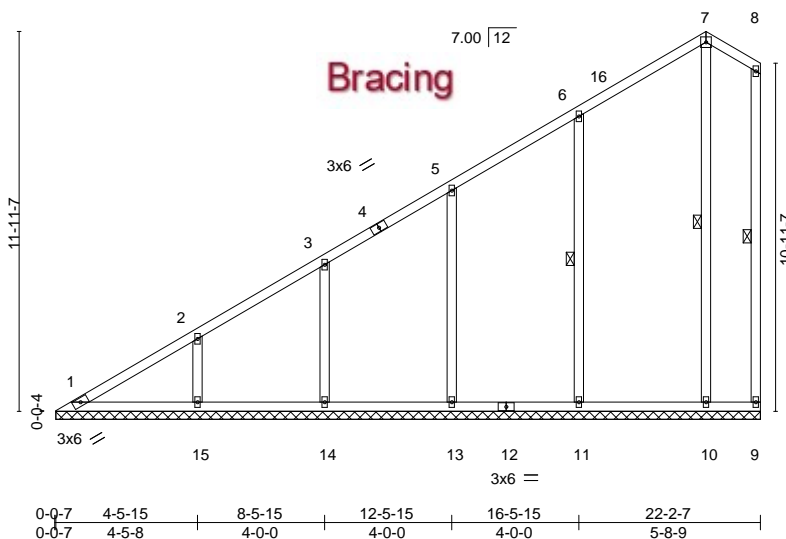
8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:45 2021 Page 1

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4x4 =

Scale = 1:72.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	-0.00	9	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 136 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 8-9, 7-10, 6-11

#### REACTIONS.

All bearings 22-2-0.

(lb) - Max Horz 1=383(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 9, 1, 10 except 11=138(LC 12), 13=125(LC 12), 14=123(LC 12), 15=143(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 9, 1 except 10=304(LC 19), 11=449(LC 19), 13=427(LC 19), 14=385(LC 19), 15=407(LC 19)

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

TOP CHORD 1-2=-411/228, 2-3=-312/170

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 20-5-15, Exterior(2E) 20-5-15 to 22-0-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 1, 10 except (jt=lb) 11=138, 13=125, 14=123, 15=143.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
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Date:

February 8, 2021

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



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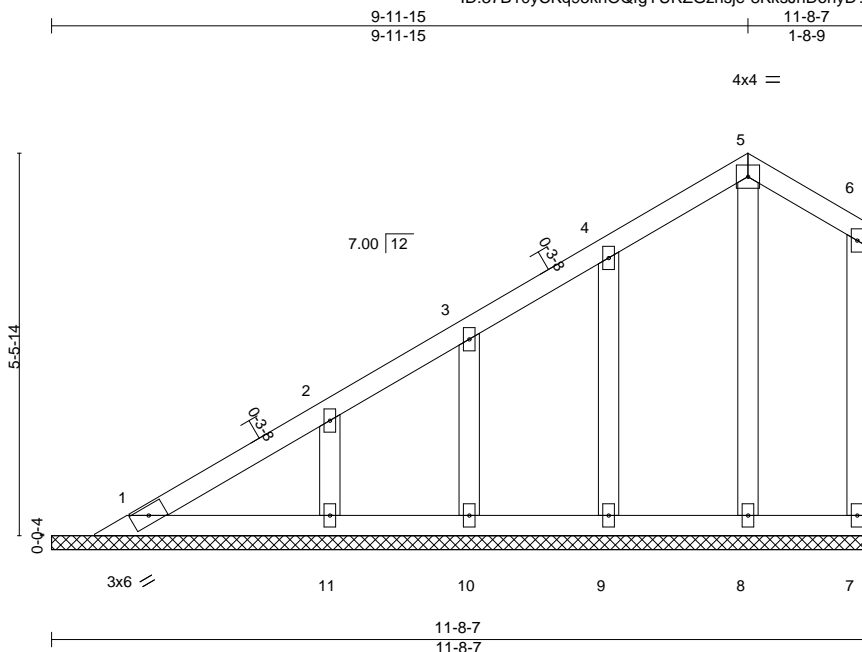


Job 2623235	Truss V01G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - LOT 19 HP T22760466
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:45 2021 Page 1  
ID:37B10yCKq95knOQfgYURZGznsje-8KksJhDohyD?Z?Dy7xorIO5kU7HNRRGwlhtj9bznCz8



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 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 60 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 11-8-7.  
(lb) - Max Horz 1=160(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 9, 10, 11  
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8, 9, 10, 11

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-1-7 to 3-11-15, Interior(1) 3-11-15 to 9-11-15, Exterior(2E) 9-11-15 to 11-6-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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) 7, 8, 9, 10, 11.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

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Tampa, FL 33610

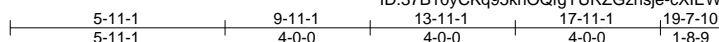
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760467
2623235	V02	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

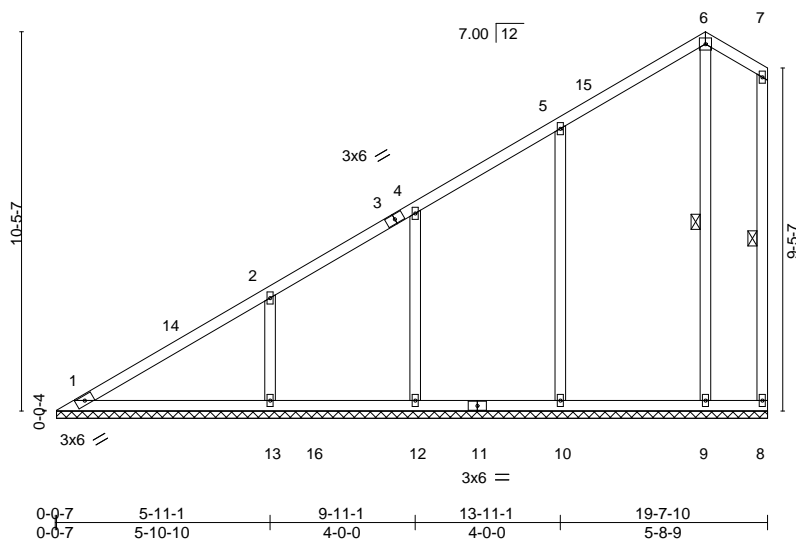
8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:46 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-cXIEW0ERSFLsB9o9hfJ4qbdsiXawAqi3zLcGh1znCz7



4x4 =

Scale: 3/16"=1'



Bracing

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 0.31	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 114 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 7-8, 6-9

#### REACTIONS.

All bearings 19-7-3.

(lb) - Max Horz 1=331(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 9 except 10=143(LC 12), 12=107(LC 12), 13=179(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8, 1 except 9=300(LC 19), 10=464(LC 19), 12=371(LC 19), 13=529(LC 19)

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

TOP CHORD 1-2=338/193

WEBS 5-10=251/167, 2-13=312/202

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 17-11-1, Exterior(2E) 17-11-1 to 19-5-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9 except (jt=lb) 10=143, 12=107, 13=179.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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

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



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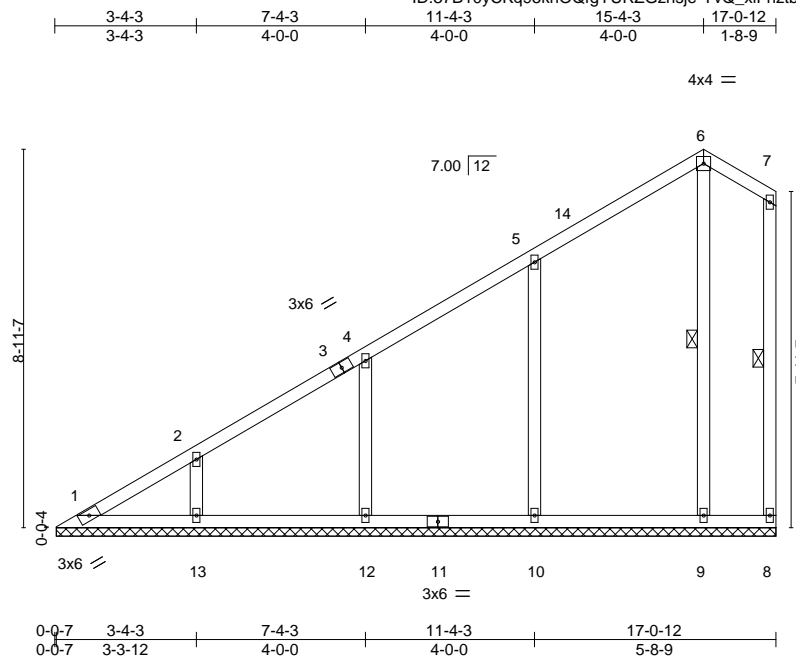
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP	T22760468
2623235	V03	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:48 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-YvQ\_xiFhztbaQTyXo3LYw0jEOLGEemtMRf5NmwznCz5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 94 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 7-8, 6-9

#### REACTIONS.

All bearings 17-0-5.  
(lb) - Max Horz 1=279(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 8, 1, 9 except 10=-138(LC 12), 12=-126(LC 12), 13=-121(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 8, 1 except 9=303(LC 19), 10=454(LC 19), 12=395(LC 19), 13=343(LC 19)

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

TOP CHORD 1-2=-303/168

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-4-3, Interior(1) 3-4-3 to 15-4-3, Exterior(2E) 15-4-3 to 16-11-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 1, 9 except (jt=lb) 10=138, 12=126, 13=121.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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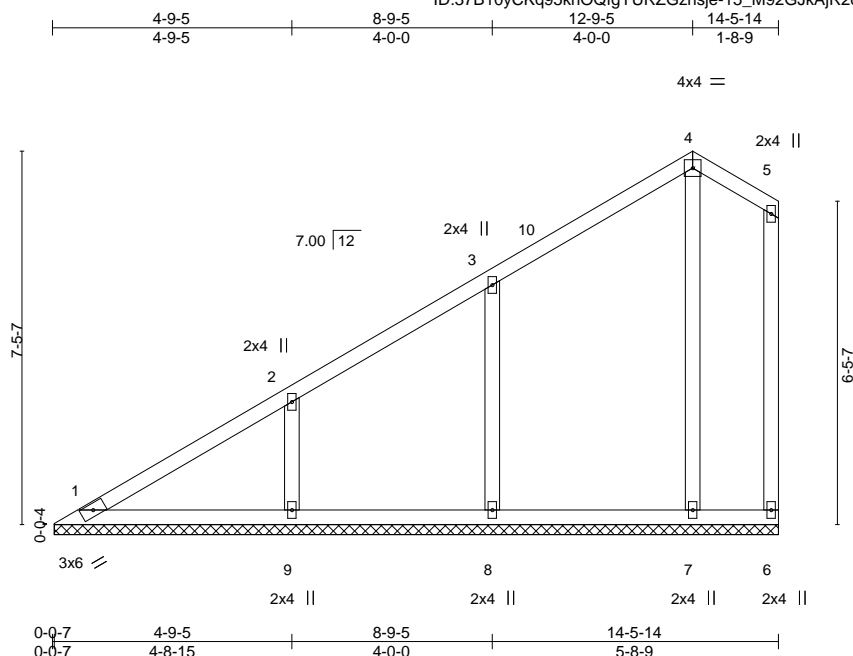
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



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8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:49 2021 Page 1  
ID:37B10vCKn95knQQfnYlRZGznsje-15 M92G.lkAiR2dWlMnsnSEEPnJc2NDcWw.lrwIIMznCz4



<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) n/a - n/a 999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.14	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 75 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		
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

**REACTIONS.** All bearings 14-5-7.  
(lb) - Max Horz 1=228(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 8=132(LC 12), 9=147(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1. 6 except 7=317(LC 19), 8=402(LC 19), 9=421(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-9=-257/167

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)  $V_{asd}=101\text{mph}$ ;  $TCDL=4.2\text{psf}$ ;  $BCDL=3.0\text{psf}$ ;  $h=20\text{ft}$ ; Cat. II; Exp B; Encl.,  $G\text{Cp}=0.18$ ; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 12-9-5, Exterior(2E) 12-9-5 to 14-4-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with  $BCDL = 10.0\text{psf}$ .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7 except (jt=lb)  
8=132, 9=147.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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

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



6904 Parke East Blvd  
Tampa, FL 36610

Job 2623235	Truss V05	Truss Type Valley	Qty 1	Ply 1	IC CONST. - LOT 19 HP T22760470
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

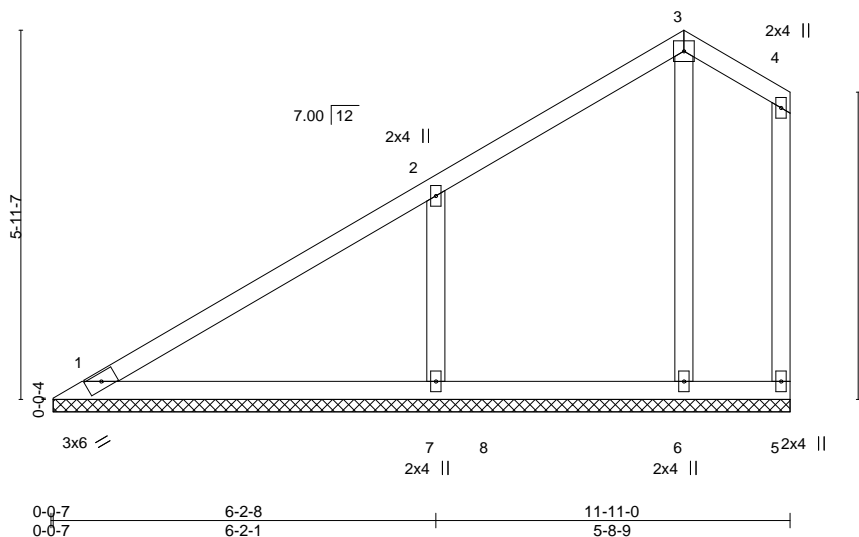
8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:50 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-VIYIMOHxVUrHfm5wwUO0?RoX48wO6hyfuzaUqpznCz3



4x4 =

Scale = 1:37.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 57 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 11-10-10.

(lb) - Max Horz 1=176(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=195(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=575(LC 19)

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

WEBS 2-7=-338/231

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-2-8, Exterior(2E) 10-2-8 to 11-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=195.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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

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



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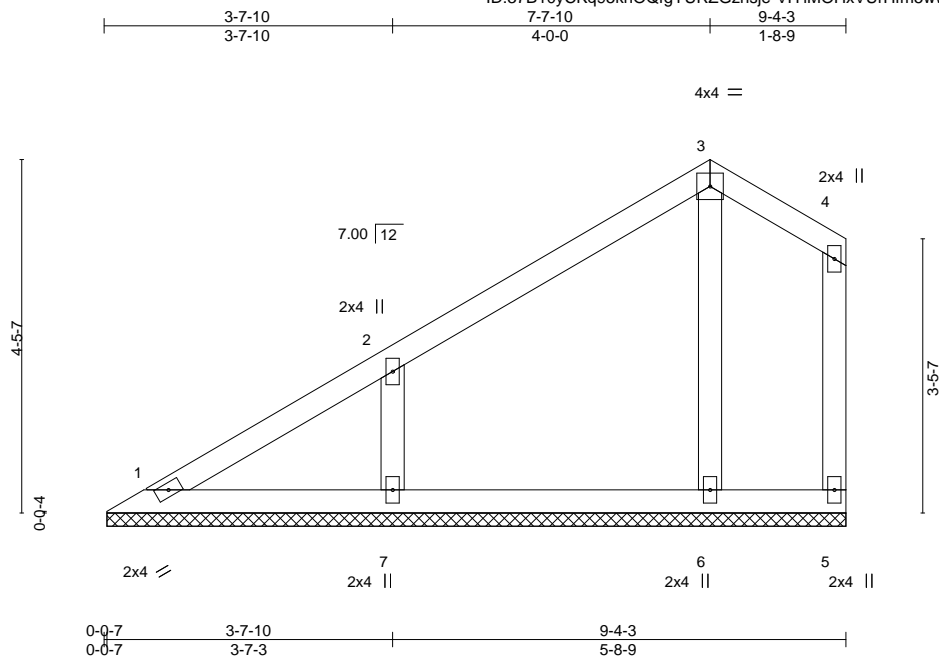
Job 2623235	Truss V06	Truss Type Valley	Qty 1	Ply 1	IC CONST. - LOT 19 HP T22760471
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:50 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-VIYIMOHxVUrHfm5wwUO0?Roaz8zo6iKfuzaUqpznCz3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 42 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 9-3-12.

(lb) - Max Horz 1=125(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=137(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=323(LC 19)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-7-10, Interior(1) 3-7-10 to 7-7-10, Exterior(2E) 7-7-10 to 9-2-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=137.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2623235	Truss V07	Truss Type Valley	Qty 1	Ply 1	IC CONST. - LOT 19 HP	T22760472
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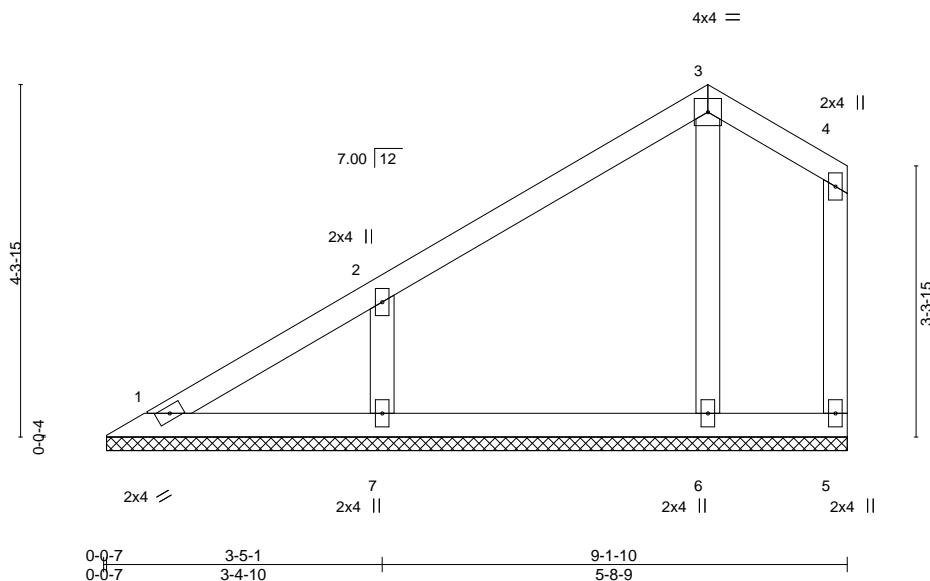
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:51 2021 Page 1  
ID:37B10yCKq95knOQfgYURZGznsje-zU67aklZGoz8Hwg6TCvFXfLpYJ6r8bo7dK1NFznCz2



Scale = 1:28.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
BCDL 7.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 41 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 9-1-3.  
(lb) - Max Horz 1=120(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=133(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=314(LC 19)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-5-1, Interior(1) 3-5-1 to 7-5-1, Exterior(2E) 7-5-1 to 8-11-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=133.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

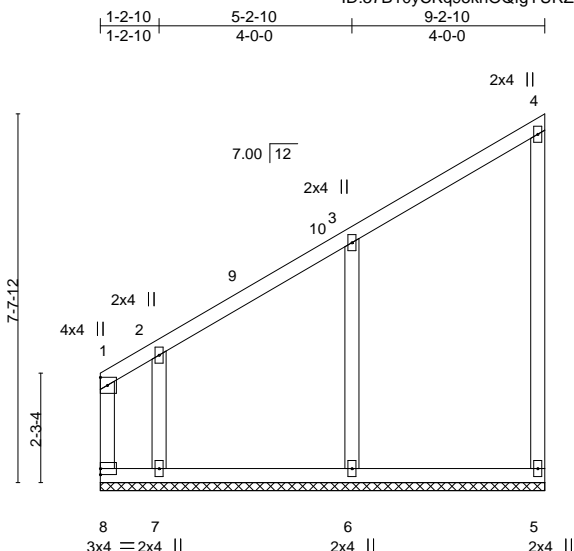
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP
2623235	V09	Valley	1	1	T22760473
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:52 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-RgfVn4IB155?v4F11vQU4stpzycSaavyMH3avhznCz1



Scale: 1/4"=1'

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58		Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.29		Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12		Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-R							Weight: 54 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 9-2-10.

(lb) - Max Horz 8=179(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 8=-183(LC 10), 6=-114(LC 12), 7=-485(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 5 except 8=480(LC 12), 6=436(LC 19), 7=384(LC 19)

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

TOP CHORD 1-8=-290/160, 1-2=-297/168

WEBS 2-7=-229/310

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=183, 6=114, 7=485.



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February 8, 2021

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

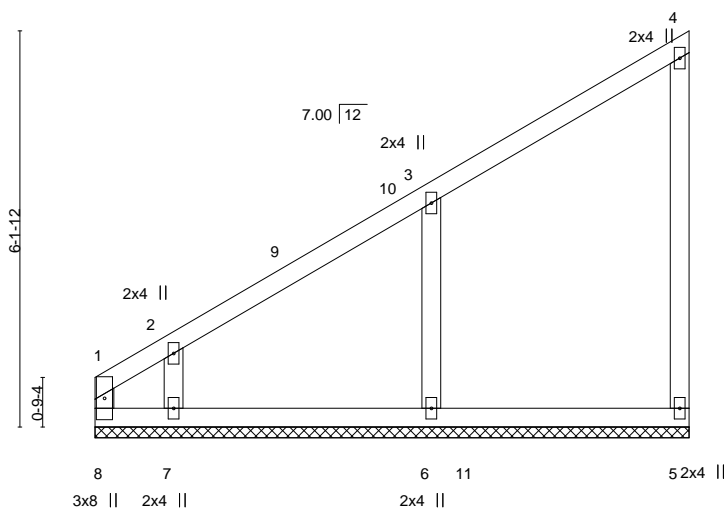


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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LOT 19 HP
2623235	V10	Valley	1	1	T22760474
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					
8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:53 2021 Page 1					
ID:37B10yCKq95knQQfgYURZGznsje-vtDt?QJqoPDsWEqVbdxjd4Q50MzbJ1z5axp8R7znCz0					
Job Reference (optional)					

1-2-10 5-2-10 9-2-10  
1-2-10 4-0-0 4-0-0

Scale = 1:35.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-R					Weight: 45 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 9-2-10.

(lb) - Max Horz 8=179(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 5 except 6=135(LC 12), 7=207(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8, 5 except 6=431(LC 19), 7=316(LC 19)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5 except (jt=lb) 6=135, 7=207.



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 8, 2021

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



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Tampa, FL 33610

Job 2623235	Truss V11	Truss Type Valley	Qty 1	Ply 1	IC CONST. - LOT 19 HP T22760475
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Builders FirstSource (Jacksonville, FL),

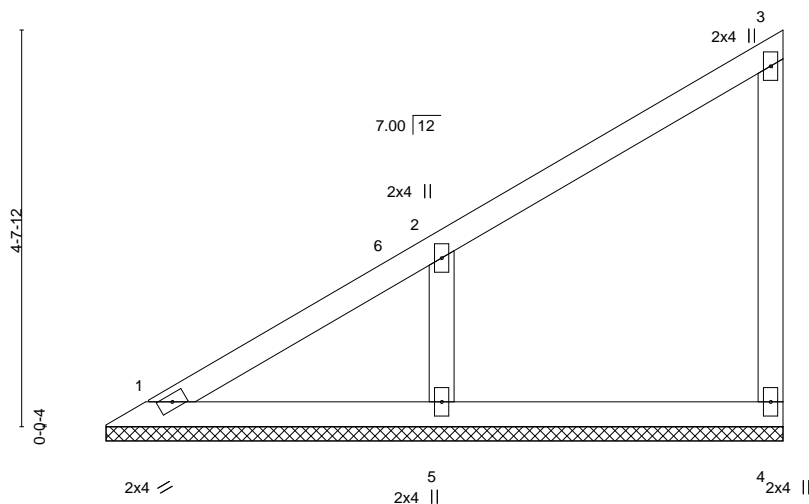
Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:54 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-N3nFCmKSZJLj8OPh9KSy9HyFumKR2VPFpbYh\_ahnCz?

3-11-10 3-11-10 7-11-10 4-0-0

Scale = 1:27.0



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 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 33 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

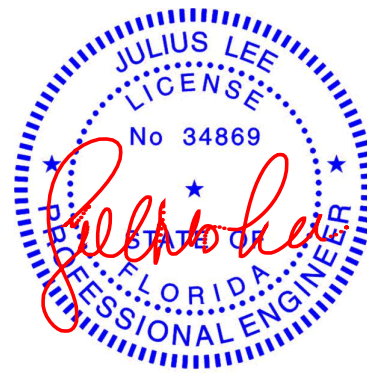
#### REACTIONS.

(size) 1=7-11-3, 4=7-11-3, 5=7-11-3  
Max Horz 1=146(LC 12)  
Max Uplift 4=50(LC 12), 5=140(LC 12)  
Max Grav 1=97(LC 21), 4=119(LC 19), 5=338(LC 19)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 7-9-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=140.



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



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Tampa, FL 33610



Job 2623235	Truss V12	Truss Type Valley	Qty 1	Ply 1	IC CONST. - LOT 19 HP T22760476
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Builders FirstSource (Jacksonville, FL),

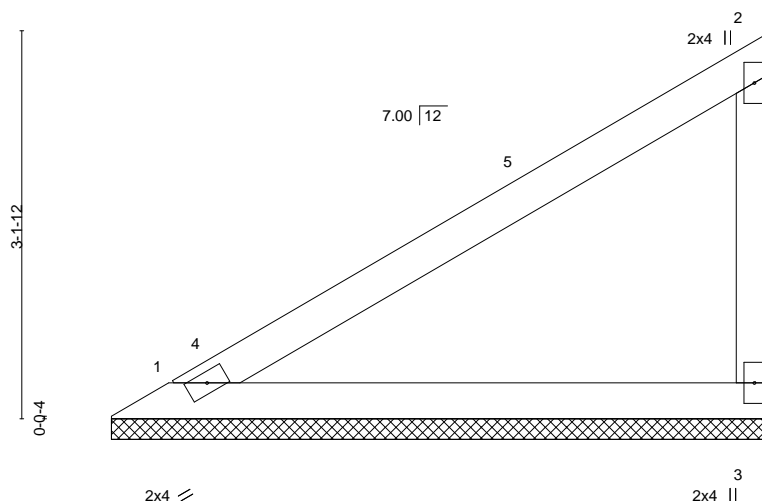
Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 8 11:34:56 2021 Page 1

ID:37B10yCKq95knOQfgYURZGznsje-JSv0dRLi5KbRNhZ4GIUQEi2YNZzbWPkXHv1o1SznCyz

5-4-12  
5-4-12

Scale = 1:18.7



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 0.36	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P					Weight: 20 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 1=5-4-5, 3=5-4-5  
Max Horz 1=95(LC 12)  
Max Uplift 1=20(LC 12), 3=75(LC 12)  
Max Grav 1=174(LC 1), 3=180(LC 19)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-3-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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) 1, 3.



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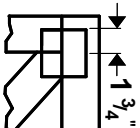
**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



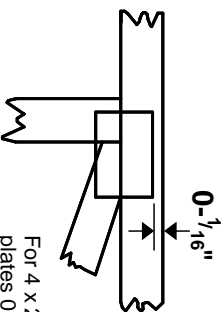
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Tampa, FL 33610

# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

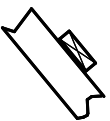
**\* Plate location details available in MITek 20/20 software or upon request.**

## PLATE SIZE

4 X 4

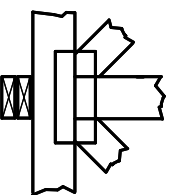
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



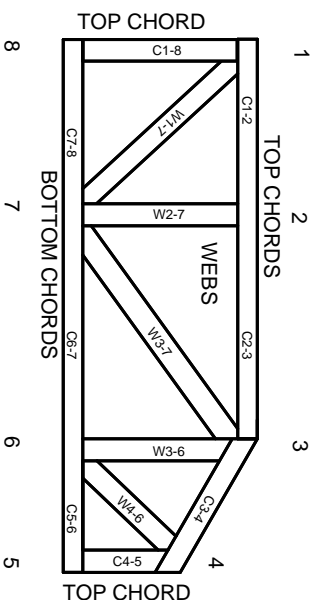
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

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

# Numbering System

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



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



# General Safety Notes

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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.