



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

RE: B220108 -

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: YASMANIS Project Name: NA Model: NA
Lot/Block: NA Subdivision: NA
Address: COLUMBIA, NA
City: LAKE CITY 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 8.6
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 14 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
1	T28964369	A	10/12/22
2	T28964370	A1	10/12/22
3	T28964371	A2	10/12/22
4	T28964372	A3	10/12/22
5	T28964373	AG	10/12/22
6	T28964374	B	10/12/22
7	T28964375	B1	10/12/22
8	T28964376	CG	10/12/22
9	T28964377	CGE	10/12/22
10	T28964378	CJ1	10/12/22
11	T28964379	CJ3	10/12/22
12	T28964380	CJ5	10/12/22
13	T28964381	CJ7	10/12/22
14	T28964382	CJ71	10/12/22

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc.
under my direct supervision based on the parameters
provided by American Truss of Chiefland.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2023.

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



Joaquin Velez PE No. 68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12, 2022

Velez, Joaquin

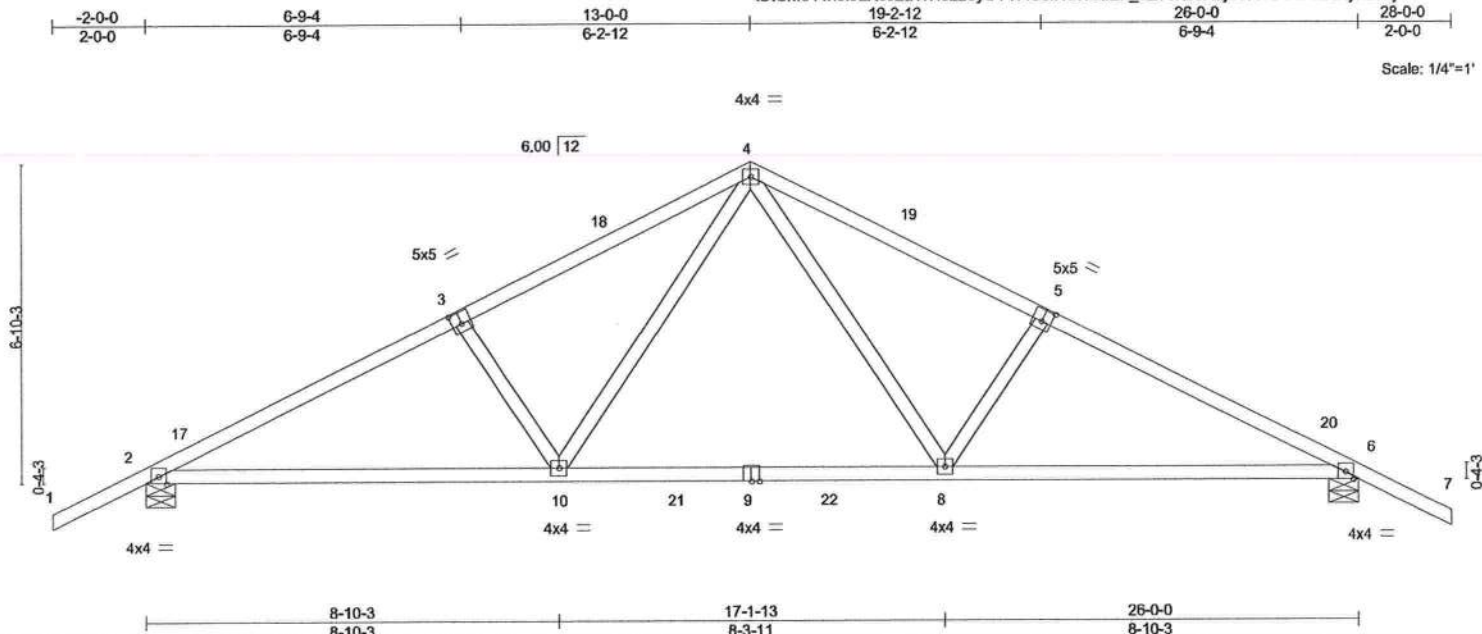
1 of 1

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B220108	A	Common	7	1	

T28964369

American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:36 2022 Page 1
 ID:SMeywFJl3LX6J2aVrHcl26yUYTi-IS5lNeWueF_eZ?eKb3XajU7XUbO6JmHXyHzHfyUUeP



Scale: 1/4"=1'

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

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 0.36	Vert(LL)	-0.15	8-10	>999	360	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.23	10-13	>999	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.05	6	n/a	n/a	
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.06	8	>999	240	
								Weight: 122 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-10-4 oc bracing.

REACTIONS.

(size) 2=0-7-8, 6=0-7-8
 Max Horz 2=179(LC 11)
 Max Uplift 2=367(LC 12), 6=367(LC 12)
 Max Grav 2=1183(LC 17), 6=1183(LC 18)

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

TOP CHORD 2-3=-1835/589, 3-4=-1674/596, 4-5=-1674/596, 5-6=-1835/589
 BOT CHORD 2-10=-372/1717, 8-10=-149/1109, 6-8=-401/1606
 WEBS 4-8=-198/740, 5-8=-395/275, 4-10=-198/740, 3-10=-395/275

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; Endl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 28-0-0 zone; cantilever left and right exposed; 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 = 7.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 2 and 367 lb uplift at joint 6.



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 Date:

October 12, 2022

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

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

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job B220108	Truss A1	Truss Type Roof Special	Qty 4	Ply 1	T28964370
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American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:38 2022 Page 1
ID:SMeywJl3LX6J2aVrHcL26yUYTiHrC3oKYuQrVius90R05?f8ZPlCXa3va?Gm3MYyUueN



Scale = 1:50.1

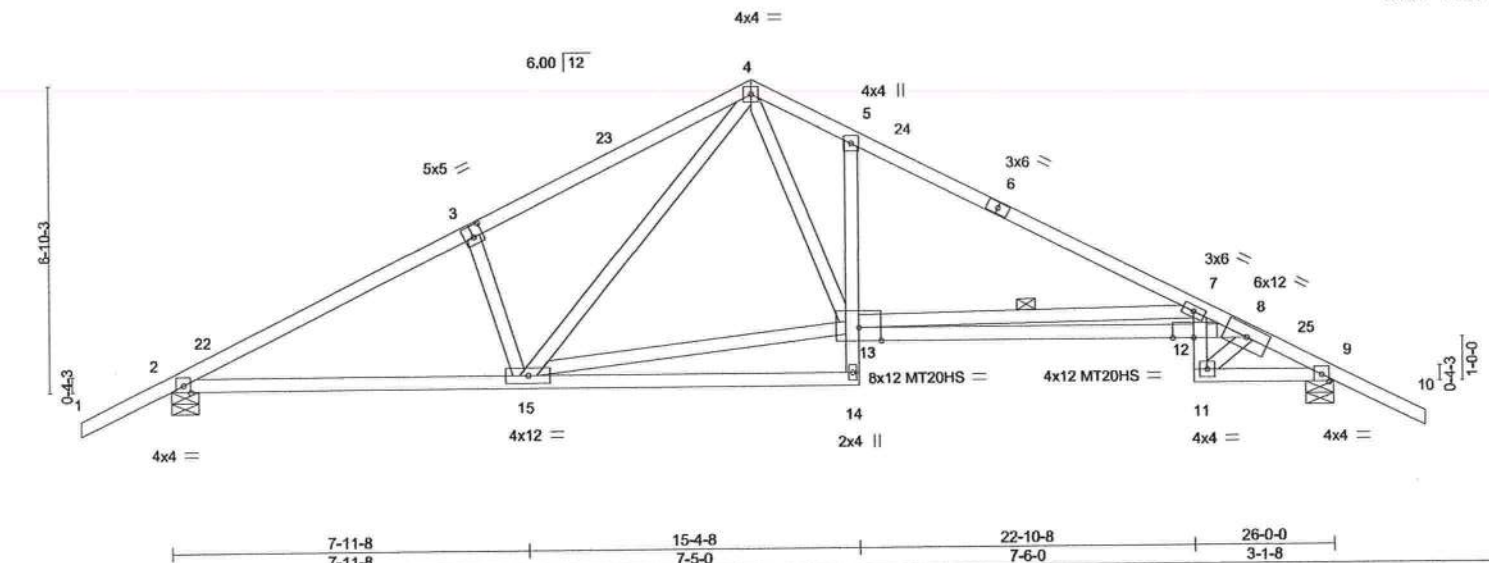


Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [12:0-5-12,0-0-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.63	Vert(LL) -0.29 11		>999 360		MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.82	Vert(CT) -0.57 12-13		>546 240		MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr YES		WB	0.78	Horz(CT) 0.27 9		n/a n/a			
BCDL	7.0	Code FBC2020/TP12014		Matrix-MS		Wind(LL) 0.27 11		>999 240			
										Weight: 148 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 5-1-5 oc bracing: 12-13.
1 Row at midpt 7-13

REACTIONS. (size) 2=0-7-8, 9=0-7-8
Max Horz 2=-179(LC 10)
Max Uplift 2=-367(LC 12), 9=-367(LC 12)
Max Grav 2=1082(LC 1), 9=1082(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1694/584, 3-4=-1578/655, 4-5=-1622/696, 5-7=-1677/572, 7-8=-4253/1435,
8-9=-1726/551
BOT CHORD 2-15=-369/1451, 5-13=-430/300, 12-13=-1461/4495, 9-11=-399/1476
WEBS 11-12=-264/1079, 7-12=-235/1127, 3-15=-386/283, 4-15=-244/497, 13-15=-110/963,
4-13=-356/921, 7-13=-3053/1150, 8-12=-1131/3454, 8-11=-1538/393

- 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=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 28-0-0 zone; cantilever left and right exposed ; 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) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 2 and 367 lb uplift at joint 9.



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Date:

October 12,2022

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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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



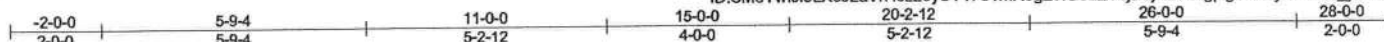
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B220108	A2	Hip	2	1	T28964371

American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:39 2022 Page 1

ID:SMeywJl3LX6J2aVrHcl26yUYTi-91mR0gZWb9dZV0jD7jcECL6gpgCJeEjDwWdu_yUJeM



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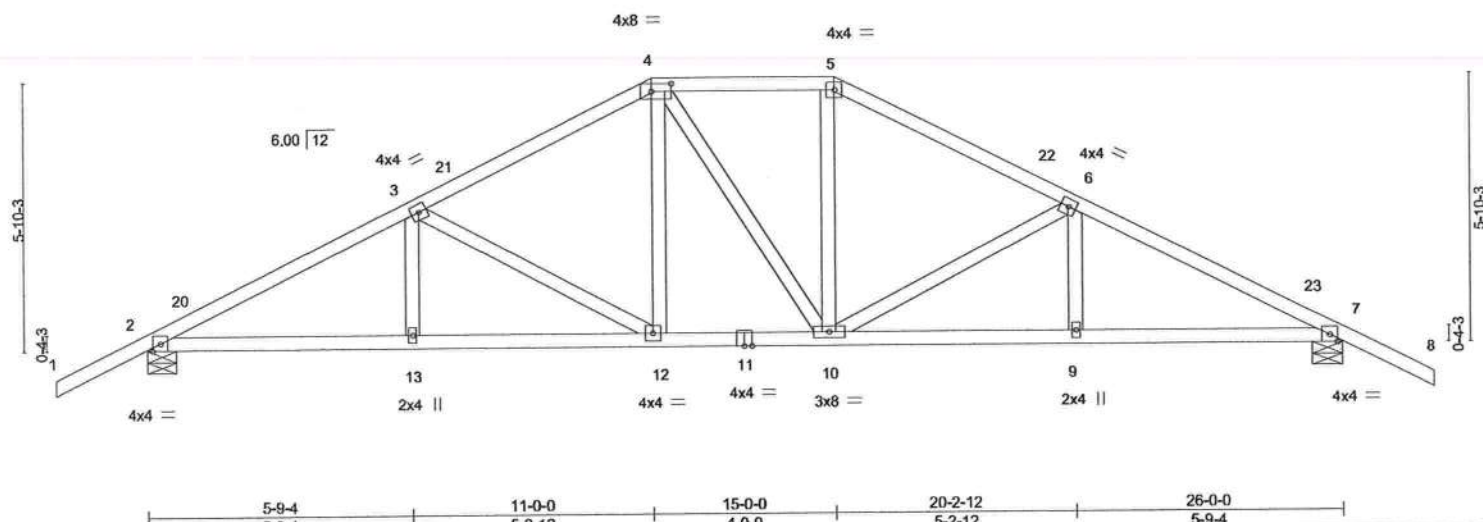


Plate Offsets (X,Y)- [4:0-5-4,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23	Vert(LL)	-0.06	12	>999	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.28	Vert(CT)	-0.12	12-13	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.05	7	n/a	n/a	
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.06	12	>999	240	
								Weight: 138 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

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

REACTIONS.

(size) 2=0-7-8, 7=0-7-8
Max Horz 2=-156(LC 10)
Max Uplift 2=-367(LC 12), 7=-367(LC 12)
Max Grav 2=1082(LC 1), 7=1082(LC 1)

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

TOP CHORD 2-3=-1739/558, 3-4=-1294/481, 4-5=-1094/477, 5-6=-1294/481, 6-7=-1739/558
BOT CHORD 2-13=-357/1498, 12-13=-357/1498, 10-12=-187/1093, 9-10=-393/1498, 7-9=-393/1498
WEBS 3-12=-473/221, 4-12=-67/317, 5-10=-67/317, 6-10=-473/221

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2E) 11-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 28-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 2 and 367 lb uplift at joint 7.



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Date:

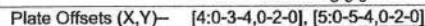
October 12,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Scale = 1:48.9

October 12, 2022

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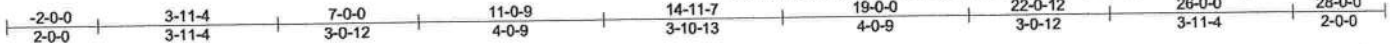


Job B220108	Truss AG	Truss Type HIP GIRDER	Qty 2	Ply 1	Job Reference (optional)	T28964373
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American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:43 2022 Page 1

ID: SMeYwJl3LX6J2aVrHcL26yUYTi-1o0yr1c1FN7_d1_EZhAMBGHKJyVFP4J8YUq1lyUJel



Scale = 1:48.9

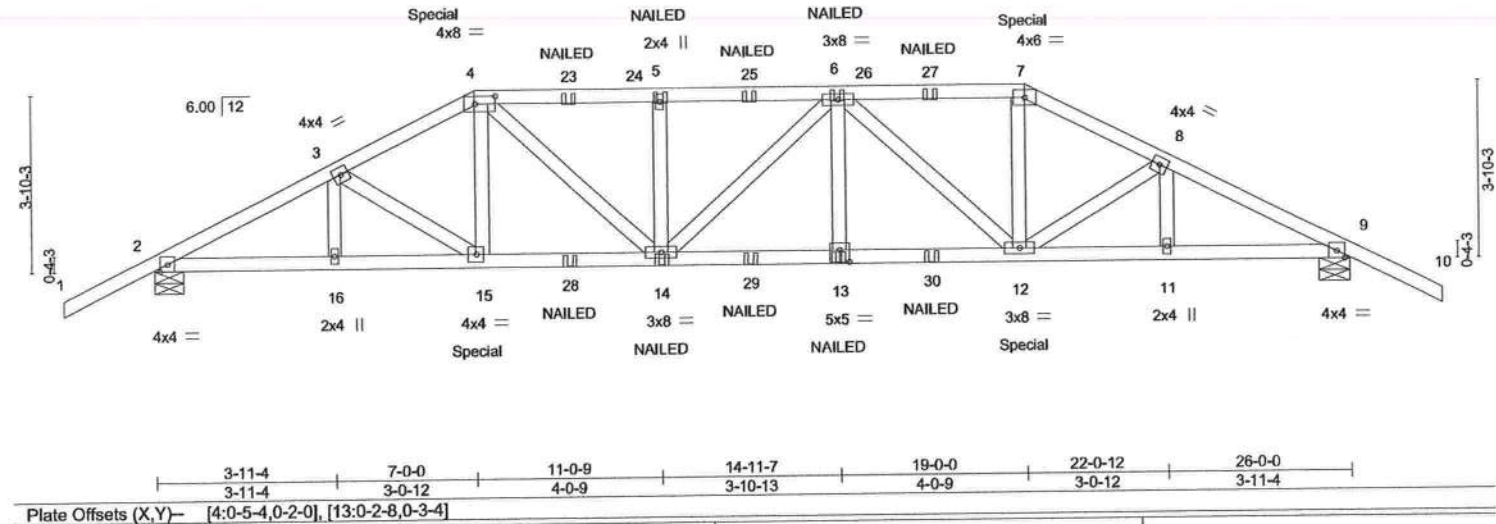


Plate Offsets (X,Y) = [4:0-5-4,0-2-0], [13:0-2-8,0-3-4]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL)	-0.18 13-14	>999	360	MT20	244/190	
TCDL 10.0	Lumber DOL 1.25	BC 0.68	Vert(CT)	-0.34 13-14	>929	240			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.40	Horz(CT)	0.12 9	n/a	n/a			
BCDL 7.0	Code FBC2020/TPI2014	Matrix-MS	Wind(LL)	0.19 13-14	>999	240	Weight: 143 lb	FT = 0%	

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 2-10-1 oc purlins.
Rigid ceiling directly applied or 6-2-4 oc bracing.

"Special" indicates special hanger(s) or other connection device(s) required at location(s) shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

REACTIONS.

(size) 2=0-7-8, 9=0-7-8
Max Horz 2=108(LC 24)
Max Uplift 2=674(LC 8), 9=674(LC 8)
DOL=1.60 plate grip DOL=1.60
Max Grav 2=1933(LC 1), 9=1933(LC 1)

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

TOP CHORD 2-3=-3608/1104, 3-4=-3438/1124, 4-5=-3794/1251, 5-6=-3794/1251, 6-7=-3094/1041,
7-8=-3438/1123, 8-9=-3607/1104
BOT CHORD 2-16=-866/3176, 15-16=-866/3176, 14-15=-827/3067, 13-14=-1047/3793,
12-13=-1047/3793, 11-12=-866/3174, 9-11=-866/3174
WEBS 3-15=-255/143, 4-15=-69/550, 4-14=-290/1005, 5-14=-486/275, 6-13=0/282,
6-12=-983/287, 7-12=-261/1104, 8-12=-255/145

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 674 lb uplift at joint 2 and 674 lb uplift at joint 9.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 215 lb down and 239 lb up at 7-0-0, and 215 lb down and 239 lb up at 19-0-0 on top chord, and 359 lb down and 84 lb up at 7-0-0, and 359 lb down and 84 lb up at 18-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



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MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

October 12,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B220108	AG	HIP GIRDER	2	1	T28964373
Job Reference (optional)					

American Truss of Chiefland, Chiefland, FL - 32626.

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:43 2022 Page 2
ID:SMeywJl3LX6J2aVrHcl26yUYTt-1o0yr1c1FN7__d1_EZhAMBGHKJyvFP4J8YUq1lyUUel

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 7-10=-60, 17-20=-14

Concentrated Loads (lb)

Vert: 4=-168(B) 7=-168(B) 15=-270(B) 14=-52(B) 5=-114(B) 13=-52(B) 6=-114(B) 12=-270(B) 23=-114(B) 25=-114(B) 27=-114(B) 28=-52(B) 29=-52(B) 30=-52(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

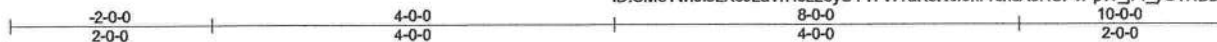


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Chesterfield, MO 63017

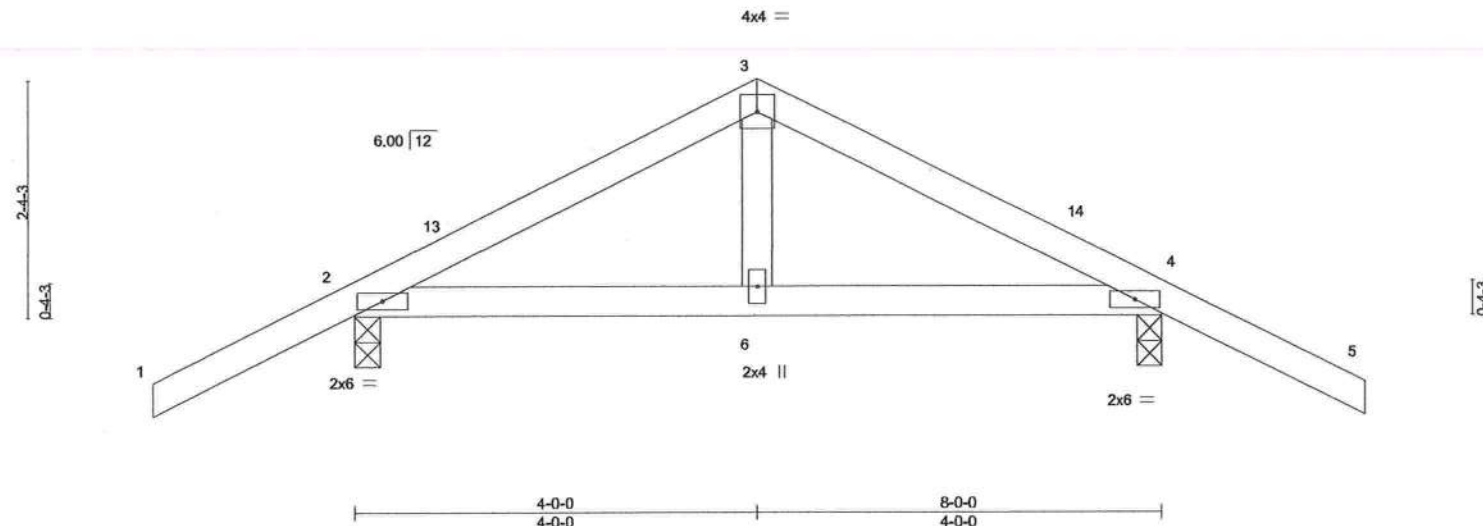
Job B220108	Truss B	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional)
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T28964374

American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:44 2022 Page 1
ID:SMeywJl3LX6J2aVrHcl26yUYTi-W?ak3Ncf0hFrcncAoHCPvPpW_jPf_yGTNBD0aByJUeH

Scale = 1:22.2



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 0.27	Vert(LL)	-0.01	6-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	-0.01	6-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	0.01	6-12	>999	240	Weight: 35 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.1

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=0-3-0, 4=0-3-0
 Max Horz 2=70(LC 11)
 Max Uplift 2=-182(LC 12), 4=-182(LC 12)
 Max Grav 2=416(LC 1), 4=416(LC 1)

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

TOP CHORD 2-3=-328/229, 3-4=-328/229
 BOT CHORD 2-6=-3/254, 4-6=-3/254

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; End., GCpl=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 10-0-0 zone; cantilever left and right exposed; 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 182 lb uplift at joint 2 and 182 lb uplift at joint 4.



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

October 12, 2022

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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/TPH Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

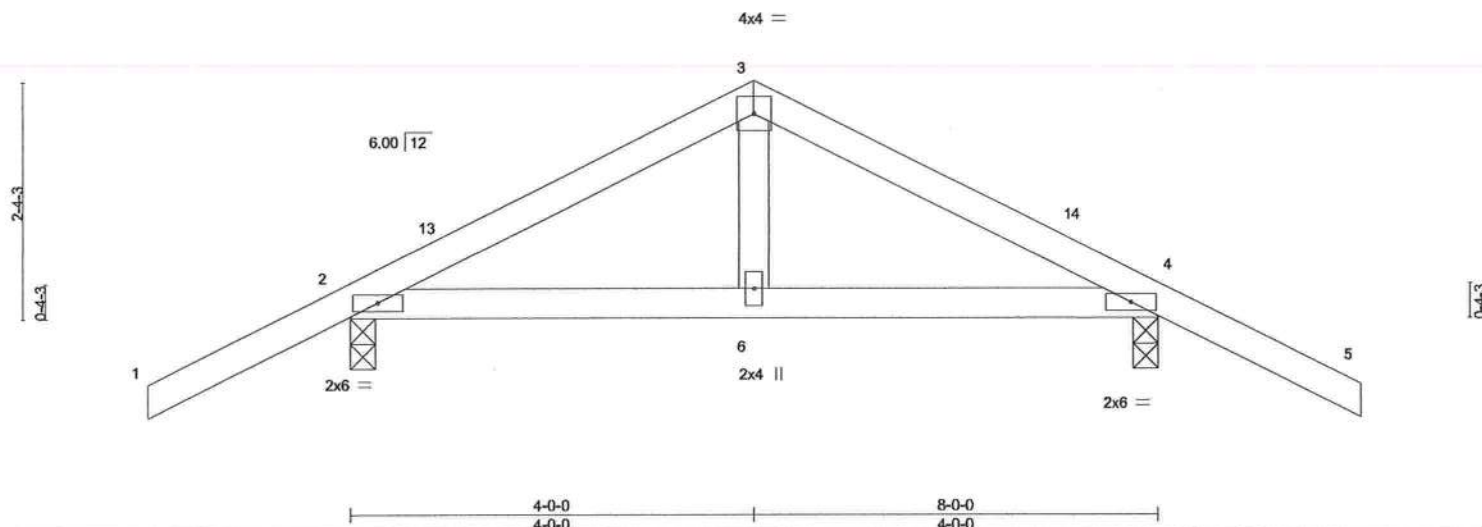
Job B220108	Truss B1	Truss Type Common	Qty 2	Ply 1	Job Reference (optional) T28964375
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American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:45 2022 Page 1
ID:SMeyw/JI3LX6J2aVrHcl.26yUYTi_B7GjdHm?NiExBML_jeRcMhk6lljPWccrxx6eyUUeG



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 0.27	Vert(LL)	-0.01	6-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	-0.01	6-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	0.01	6-12	>999	240		
									Weight: 35 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

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=0-3-0, 4=0-3-0
Max Horz 2=70(LC 11)
Max Uplift 2=182(LC 12), 4=182(LC 12)
Max Grav 2=416(LC 1), 4=416(LC 1)

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

TOP CHORD 2-3=-328/229, 3-4=-328/229
BOT CHORD 2-6=-3/254, 4-6=-3/254

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 10-0-0 zone; cantilever left and right exposed; 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 182 lb uplift at joint 2 and 182 lb uplift at joint 4.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2022

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8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:46 2022 Page 1
ID:SMeywflJl3LX6J2aVrHcL26yUYTi-SNh4U3evXlWZr5mZviEt_quo_WzySoJlqViUe4yUUeF

LUMBER-

BRACING-

REACTIONS.

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

NOTES-

LOAD CASE(S) Standard



Joaquin Velez PE No.68182
MITek Inc. DBA MITek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12, 2022



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8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:47 2022 Page 1
ID:SMeywfiJl3LX6J2aVrHcl26yUYTi-waFShPfiXceQTFILTIPI6X1R?twSyBJuv39S2AWyUUeF



BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 8-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.1

REACTIONS. (size) 2=8-0-0, 6=8-0-0, 8=8-0-0
 Max Horz 2=63(LC 11)
 Max Uplift 2=-185(LC 12), 6=-185(LC 12)
 Max Grav 2=269(LC 21), 6=269(LC 22), 8=315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-8=-280/260

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) $V_{asd}=101\text{mph}$; TCDF=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; End, GCpf=0.18; MWFRS (directional) and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 4-0-0, Corner(3R) 4-0-0 to 7-0-0, Exterior(2N) 7-0-0 to 10-0-0 zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 2 and 185 lb uplift at joint 6.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B220108	CJ1	Jack-Open	8	1	T28964378

American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:48 2022 Page 1

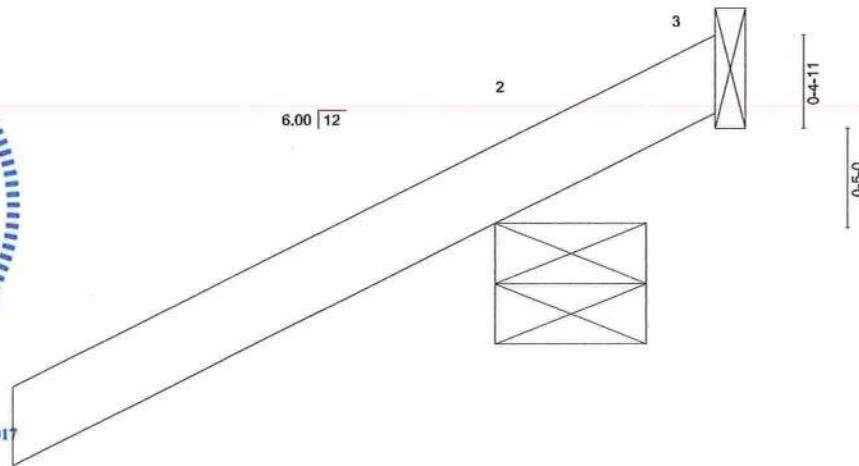
ID:SMeywUJ3LX6J2aVrHcl26yUYTi-Ompqvg93wmH5Pwx16GL3F_94Kpkwmc2lpBbjzyUUeD

-2-0-0
2-0-0
0-10-15
0-10-15

Scale = 1:9.3



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.39	in	(loc)	l/defl	L/d		
TCDL	10.0	Lumber DOL	1.25	BC	0.00	0.00	2	>999	360		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	0.00	2	>999	240		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-MP		Horz(CT)	0.00	3	n/a	n/a	
						Wind(LL)	-0.00	2-3	>999	240	
										Weight: 5 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 0-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 3=Mechanical, 2=0-7-8
Max Horz 2=84(LC 12)
Max Uplift 3=-256(LC 1), 3=-256(LC 1), 2=-418(LC 12)
Max Grav 3=286(LC 12), 2=430(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; TCCL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; 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
- 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 3 and 418 lb uplift at joint 2.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

October 12, 2022



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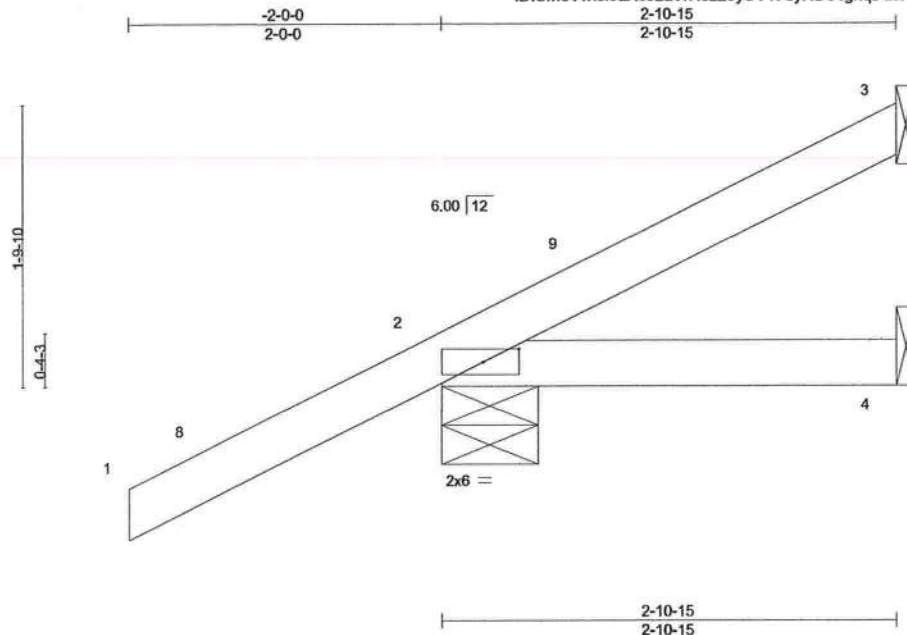


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job B220108	Truss CJ3	Truss Type Jack-Open	Qty 8	Ply 1	Job Reference (optional) T28964379
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American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:49 2022 Page 1
ID:SMeywJl3LX6J2aVrHcl26yJYTi-syND64gnqDu8iYU8aqaocSWMTk8qfDsCXTx9FPyUUEC



Scale = 1:14.3

Plate Offsets (X,Y)-	[2:0-2-12,0-1-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.00 4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.00 4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 3	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	-0.01 4-7	>999	240	Weight: 13 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-7-8, 4=Mechanical
Max Horz 2=120(LC 12)
Max Uplift 3=-22(LC 12), 2=-159(LC 12)
Max Grav 3=54(LC 17), 2=268(LC 1), 4=38(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-10-3 zone; cantilever left and right exposed; 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
- 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 22 lb uplift at joint 3 and 159 lb uplift at joint 2.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2022

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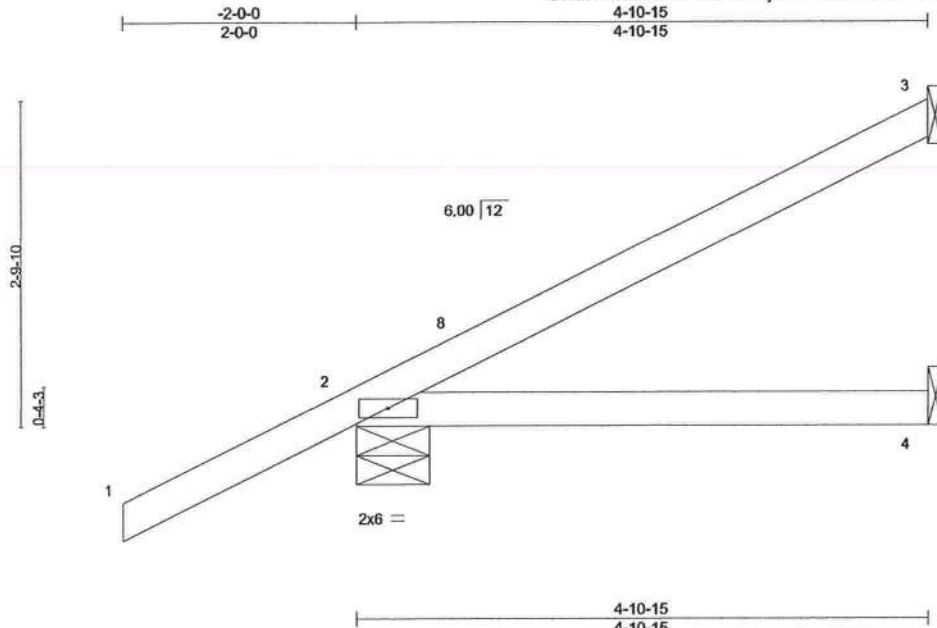


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B220108	CJ5	Jack-Open	8	1	

T28964380

American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:50 2022 Page 1
ID:SMeywJl3LX6J2aVrHcL26yUYTi-K9xbJQhQbX0?Ki3K8XUp8g3XD7SMOg6L7ginryUUeB

Scale = 1:19.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.02	4-7	>999	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.04	4-7	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	0.03	4-7	>999	240	
									Weight: 19 lb FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-7-8, 4=Mechanical
Max Horz 2=161(LC 12)
Max Uplift 3=64(LC 12), 2=150(LC 12)
Max Grav 3=114(LC 1), 2=324(LC 1), 4=74(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-10-3 zone; cantilever left and right exposed; 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
- 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 64 lb uplift at joint 3 and 150 lb uplift at joint 2.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2022



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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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Chesterfield, MO 63017

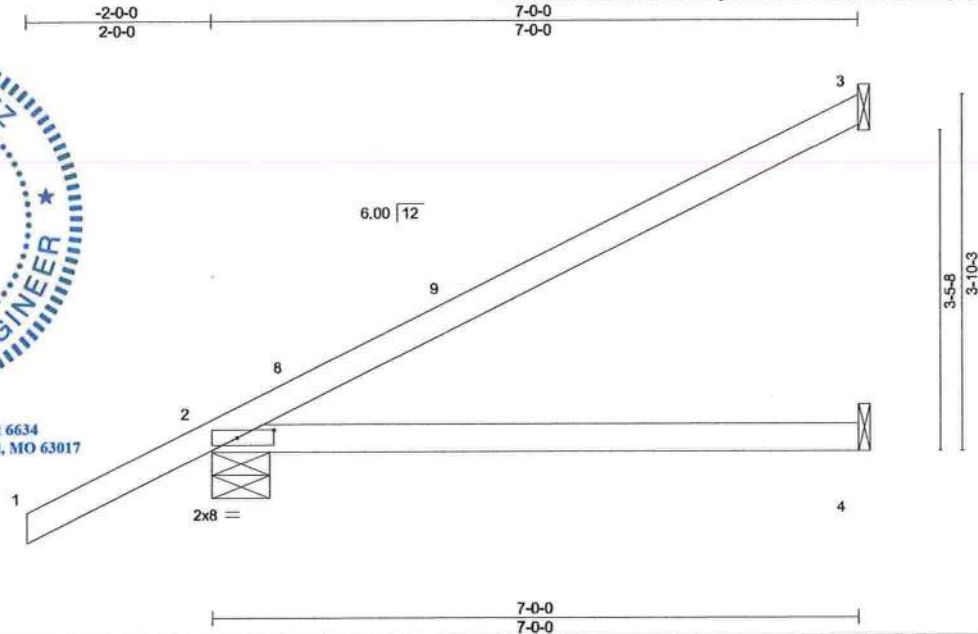
Job B220108	Truss CJ7	Truss Type Jack-Open	Qty 7	Ply 1	T28964381
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American Truss of Chieffland, Chieffland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:50 2022 Page 1
ID:SMeywfJl3LX6J2aVrHcL26yUYTi-K9xbJQhQbX0?Ki3K8XJp8g3Tx7PI0g6LI7ginryJUeB



Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:



Scale: 1/2"=1'

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	-0.08	4-7	>999	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.17	4-7	>490	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	0.13	4-7	>660	240	
								Weight: 26 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-7-8, 4=Mechanical
Max Horz 2=204(LC 12)
Max Uplift 3=102(LC 12), 2=153(LC 12)
Max Grav 3=174(LC 1), 2=394(LC 1), 4=109(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Endl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; cantilever left and right exposed; 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
- 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 102 lb uplift at joint 3 and 153 lb uplift at joint 2.

October 12,2022

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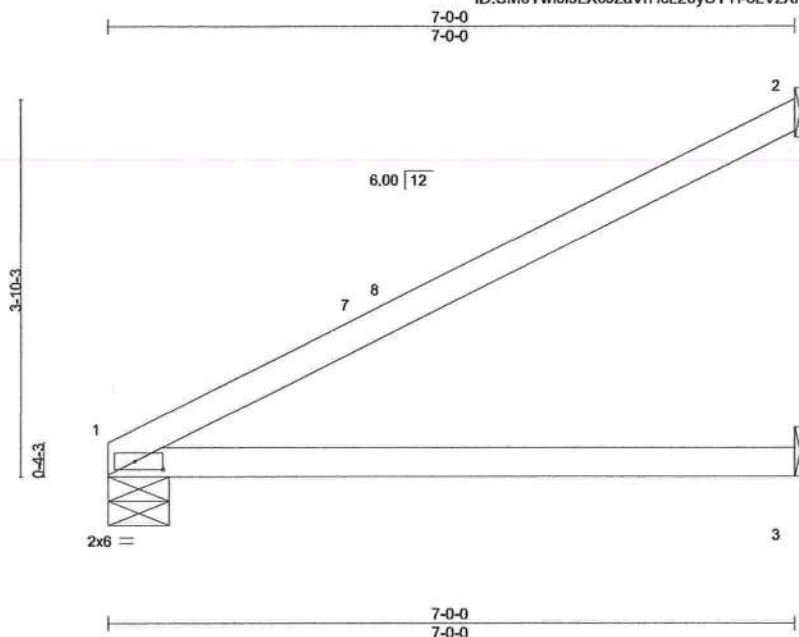


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Chesterfield, MO 63017

Job B220108	Truss CJ71	Truss Type Jack-Open	Qty 7	Ply 1	Job Reference (optional)
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T28964382

American Truss of Chiefland, Chiefland, FL - 32626,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 11 12:20:51 2022 Page 1
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Scale = 1:22.9

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.09	3-6	>890	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.19	3-6	>427	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	0.16	3-6	>535	240		
									Weight: 22 lb	FT = 0%

LUMBER-TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1**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=0-7-8, 2=Mechanical, 3=Mechanical
Max Horz 1=142(LC 12)
Max Uplift 1=-35(LC 12), 2=-111(LC 12)
Max Grav 1=257(LC 1), 2=182(LC 1), 3=112(LC 3)**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-4 zone; cantilever left and right exposed; 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
- 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 35 lb uplift at joint 1 and 111 lb uplift at joint 2.

Joaquin Velez PE No.68182
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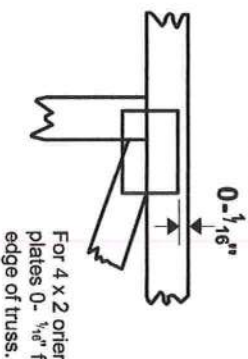
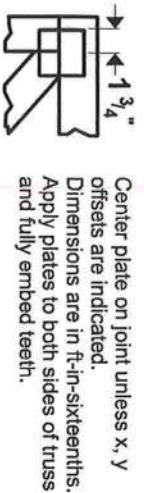
ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component

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

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Symbols

PLATE LOCATION AND ORIENTATION



— 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

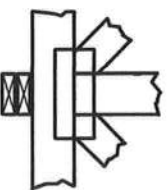
4 X 4

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

LATERAL BRACING LOCATION



BEARING

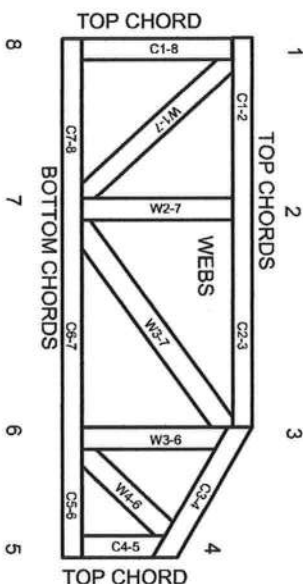


Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MLI-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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

