



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

73

RE: B230002 -

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: STEVE MACALUSO Project Name: NA Model: NA
Lot/Block: NA Subdivision: NA
Address: COLUMBIA, NA
City: FORT WHITE State: FL

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

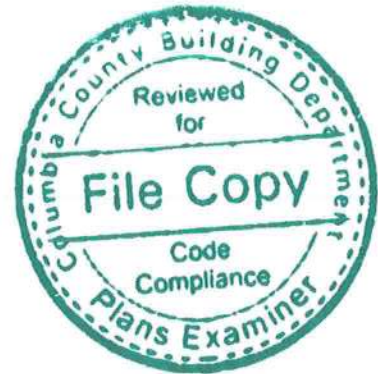
Name: License #:
Address:
City: State:

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 17 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	T29578085	A	1/12/23
2	T29578086	A1	1/12/23
3	T29578087	A2	1/12/23
4	T29578088	A3	1/12/23
5	T29578089	A4	1/12/23
6	T29578090	AG	1/12/23
7	T29578091	BG	1/12/23
8	T29578092	CG	1/12/23
9	T29578093	CG1	1/12/23
10	T29578094	CJ1	1/12/23
11	T29578095	CJ3	1/12/23
12	T29578096	CJ5	1/12/23
13	T29578097	CJ7	1/12/23
14	T29578098	CJ51	1/12/23
15	T29578099	CJ71	1/12/23
16	T29578100	DG	1/12/23
17	T29578101	EG	1/12/23



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: Lee, Julius

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.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

Lee, Julius

1 of 1

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B230002	A	Common	7	1	

T29578085

American Truss of Chiefland, Chiefland, FL - 32626,

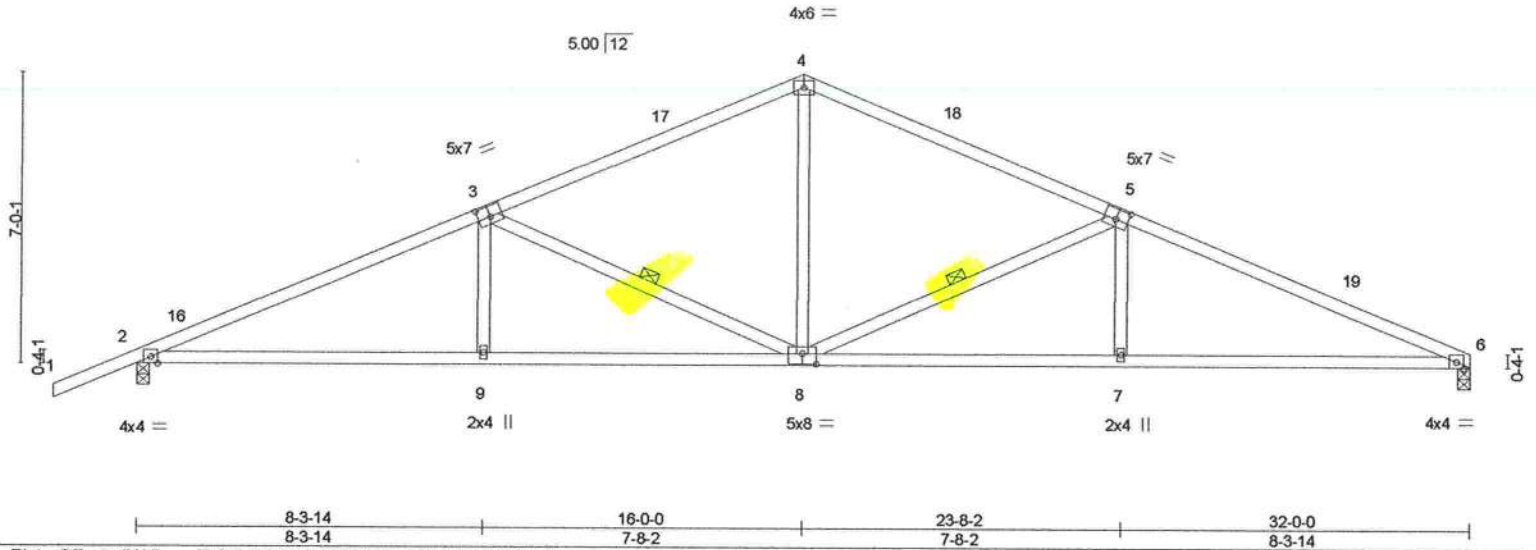
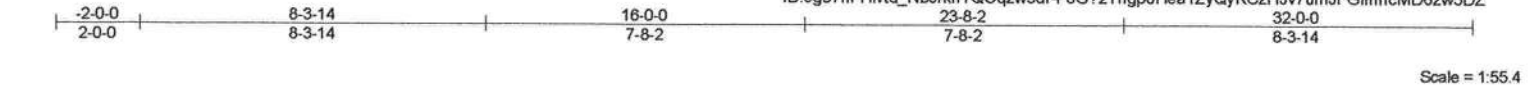
8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:01:46 2023 Page 1
ID:9g87nFHivtd_NbcrkhTQOqzw5dr-FoG?2Tngp0Hea1ZyQyKCzHJv7umJFGifnncMD6zw5DZ

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	-0.15	7-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.31	7-15	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.09	6	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.17	7-15	>999	240	Weight: 146 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 3-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-4 oc bracing.
WEBS 1 Row at midpt 5-8, 3-8

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=159(LC 11)
Max Uplift 2=-433(LC 12), 6=-326(LC 12)
Max Grav 2=1308(LC 1), 6=1180(LC 1)

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

TOP CHORD 2-3=-2441/758, 3-4=-1651/594, 4-5=-1652/607, 5-6=-2464/781
BOT CHORD 2-9=-622/2181, 8-9=-624/2177, 7-8=-624/2202, 6-7=-623/2206
WEBS 4-8=-213/798, 5-8=-864/346, 5-7=0/295, 3-8=-836/336, 3-9=0/291

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-2-6, Interior(1) 1-2-6 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior(1) 19-2-6 to 32-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=433, 6=326.



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

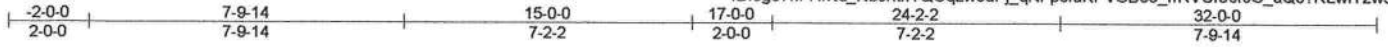
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B230002	A1	Hip	2	1	

T29578086

American Truss of Chiefland, Chiefland, FL - 32626,

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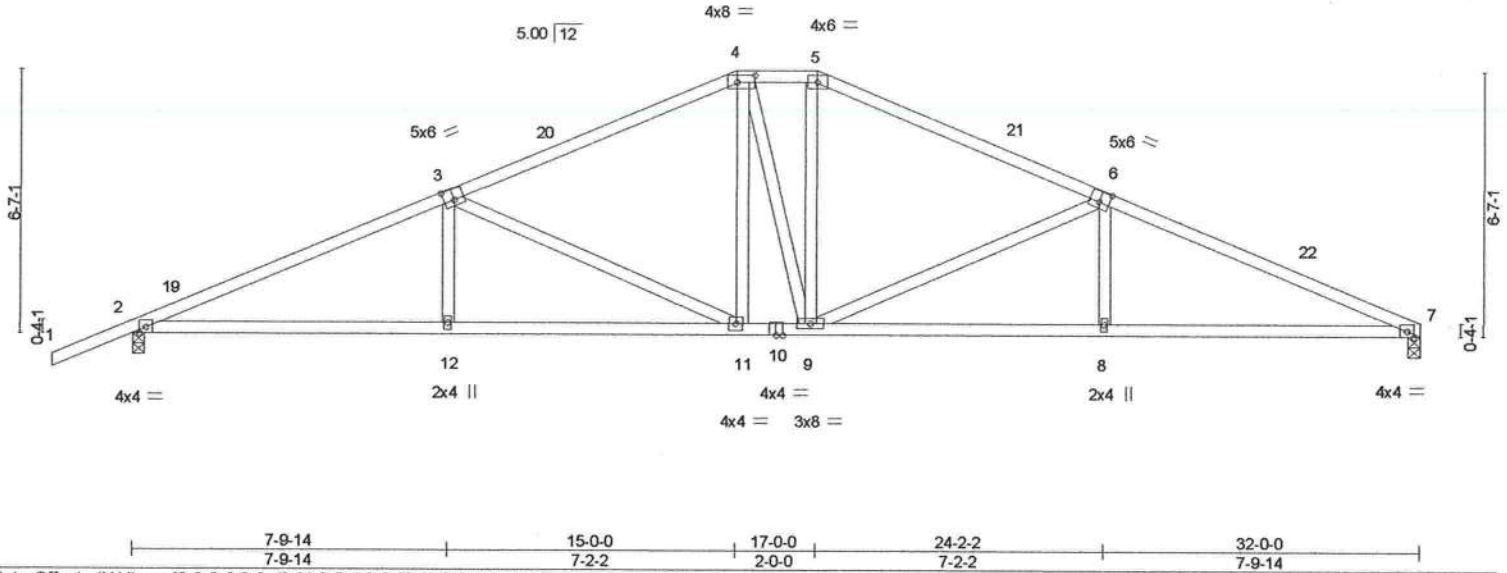


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-5-4,0-2-0], [6:0-3-0,0-3-4]

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52		Vert(LL)	-0.13	8-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.59		Vert(CT)	-0.27	8-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80		Horz(CT)	0.09	7	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS		Wind(LL)	0.15	8-18	>999	240	Weight: 161 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 3-4-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 7-8-4 oc bracing.

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
 Max Horz 2=150(LC 11)
 Max Uplift 2=-433(LC 12), 7=-326(LC 12)
 Max Grav 2=1308(LC 1), 7=1180(LC 1)

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

TOP CHORD 2-3=-2469/771, 3-4=-1720/613, 4-5=-1510/609, 5-6=-1722/616, 6-7=-2496/784
 BOT CHORD 2-12=-633/2212, 11-12=-635/2208, 9-11=-350/1509, 8-9=-633/2235, 7-8=-632/2239
 WEBS 3-12=0/281, 3-11=-784/316, 4-11=-97/382, 5-9=-120/389, 6-9=-813/330, 6-8=0/284

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=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-2-6, Interior(1) 1-2-6 to 15-0-0, Exterior(2E) 15-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-6-5, Interior(1) 21-6-5 to 32-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=433, 7=326.



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

January 13, 2023

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



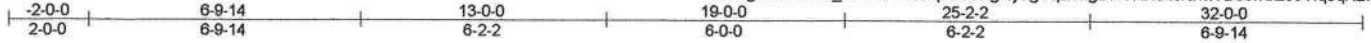
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job B230002	Truss A2	Truss Type Hip	Qty 2	Ply 1	Job Reference (optional)	T29578087
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American Truss of Chiefland, Chiefland, FL - 32626,

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ID:9g87nFHvtd_NberkhTQOqzw5dr-gNy7gVqZ6xgDRVHX54tvavxTB6onSZc5Tlq0qRzw5DW



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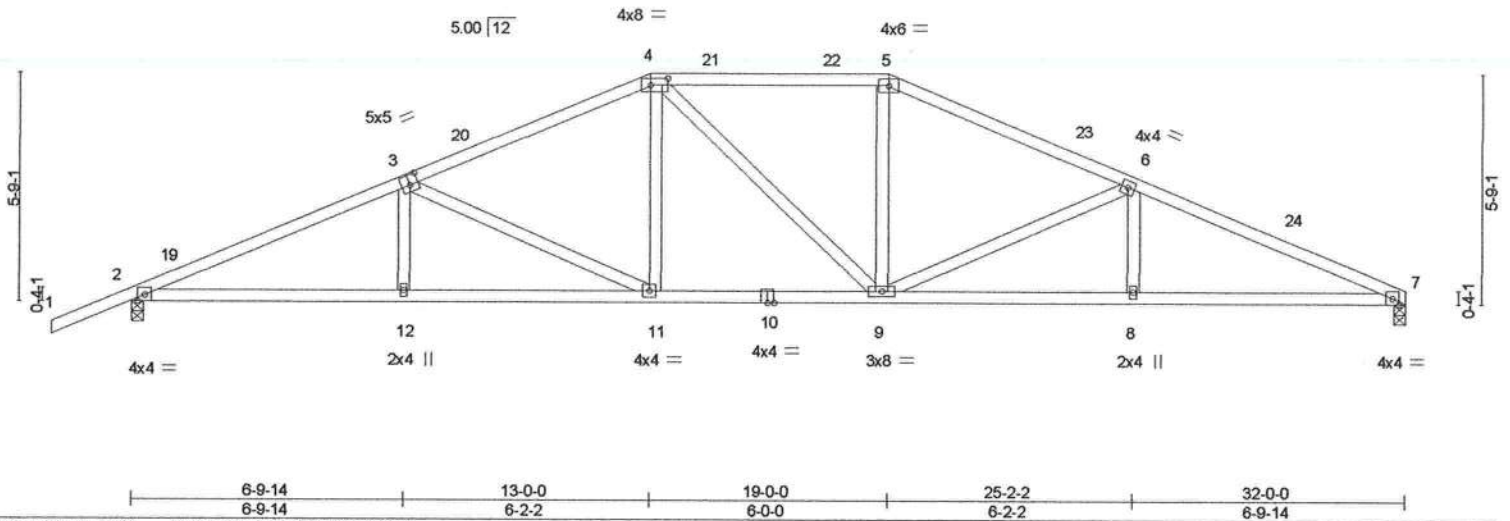


Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [4:0-5-4,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	-0.13	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.25	9-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.09	7	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.13	9-11	>999	240		
									Weight: 156 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 3-6-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-1 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=133(LC 11)
Max Uplift 7=-326(LC 12), 2=-433(LC 12)
Max Grav 7=1180(LC 1), 2=1308(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2514/813, 3-4=-1897/682, 4-5=-1691/664, 5-6=-1902/680, 6-7=-2552/823
BOT CHORD 2-12=-681/2260, 11-12=-683/2257, 9-11=-443/1688, 8-9=-684/2300, 7-8=-684/2300
WEBS 3-11=-642/267, 4-11=-64/401, 5-9=-71/402, 6-9=-682/284

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=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-2-6, Interior(1) 1-2-6 to 13-0-0, Exterior(2R) 13-0-0 to 17-6-5, Interior(1) 17-6-5 to 19-0-0, Exterior(2R) 19-0-0 to 23-6-5, Interior(1) 23-6-5 to 32-0-0 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 100 lb uplift at joint(s) except (jt=lb) 7=326, 2=433.



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29578088
B230002	A3	Hip	2	1	

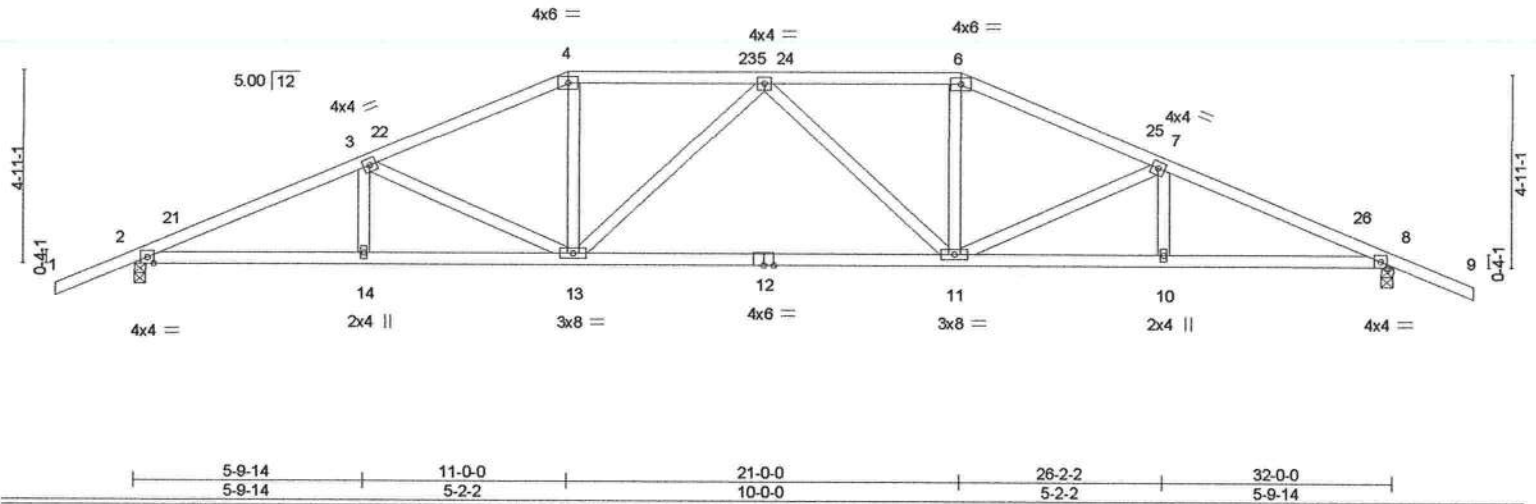
American Truss of Chiefland, Chiefland, FL - 32626,

8 630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:01:50 2023 Page 1

ID: 9g87nFHvtd_NbcrkhTQOqzw5dr-8ZWVtrrBtFo43esjfoP877ThkW75B3bFiPaaMtzw5DV

-2-0-0	5-9-14	11-0-0	16-0-0	21-0-0	26-2-2	32-0-0	34-0-0
2-0-0	5-9-14	5-2-2	5-0-0	5-0-0	5-2-2	5-9-14	2-0-0

Scale = 1:58.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.58	Vert(LL) -0.23 11-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.26	Vert(CT) -0.46 11-13 >844 240		
BCDL 7.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.10 8 n/a n/a		
	Code FBC2020/TPI2014		Wind(LL) 0.13 11-13 >999 240		
				Weight: 160 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-8-7 oc bracing.
WEBS 2x4 SP No.1	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-115(LC 10)
Max Uplift 2=-429(LC 12), 8=-429(LC 12)
Max Grav 2=1304(LC 1), 8=1304(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2544/813, 3-4=-2067/689, 4-5=-1862/677, 5-6=-1862/677, 6-7=-2067/689, 7-8=-2544/813
BOT CHORD 2-14=-629/2298, 13-14=-629/2298, 11-13=-528/2034, 10-11=-659/2298, 8-10=-659/2298
WEBS 3-13=-501/240, 4-13=-109/495, 5-13=-353/138, 5-11=-353/138, 6-11=-109/495, 7-11=-501/240

- 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=32ft; eave=4ft; Cat II; Exp C; Encl.; GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-2-6, Interior(1) 1-2-6 to 11-0-0, Exterior(2R) 11-0-0 to 15-6-5, Interior(1) 15-6-5 to 21-0-0, Exterior(2R) 21-0-0 to 25-6-5, Interior(1) 25-6-5 to 34-0-0 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) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=429, 8=429.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230002	A4	Hip	2	1	T29578089

American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:01:52 2023 Page 1

ID:9g87nFHvtd_NbcrkhTQOqzw5dr-4ydGIXsROs2nly06mCRcCYZzqJq4fuDY9j3gRmzw5DT

-2-0-0	4-9-14	9-0-0	16-0-0	23-0-0	27-2-2	32-0-0	34-0-0
2-0-0	4-9-14	4-2-2	7-0-0	7-0-0	4-2-2	4-9-14	2-0-0

Scale = 1:58.6

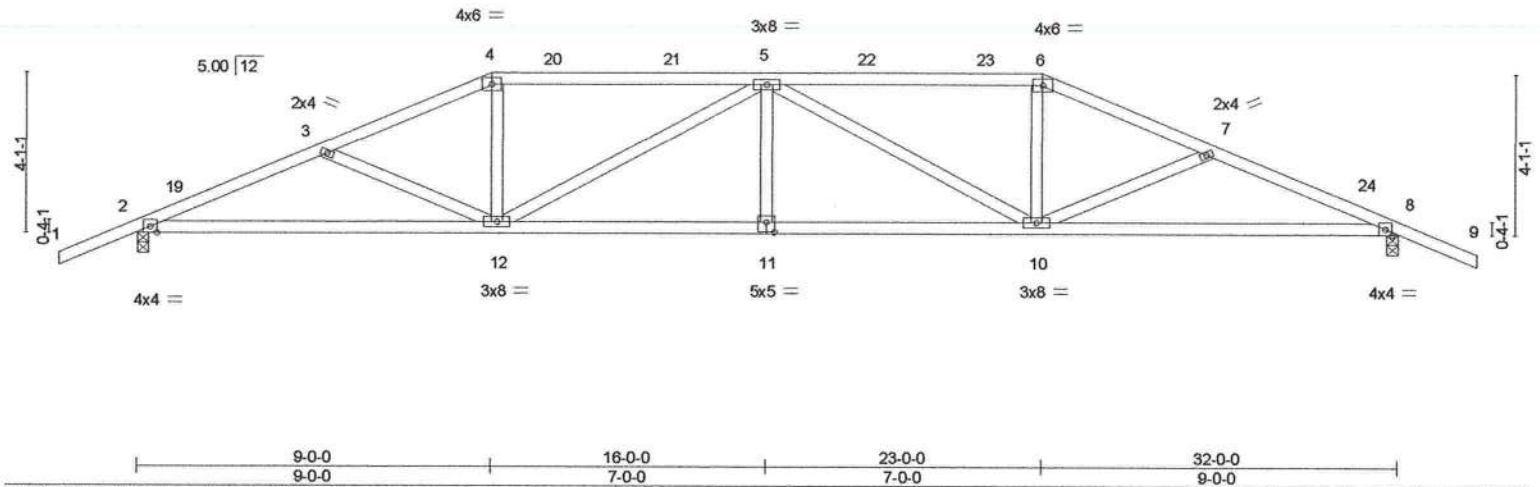


Plate Offsets (X,Y)-- [11:0-2-8,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.45	Vert(LL)	-0.17	11	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25		BC 0.55	Vert(CT)	-0.32	11-12	>999		
BCLL 0.0 *	Lumber DOL 1.25		WB 0.63	Horz(CT)	0.11	8	n/a		
BCDL 7.0	Rep Stress Incr YES		Matrix-MS	Wind(LL)	0.17	11	>999		
	Code FBC2020/TPI2014							Weight: 156 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 3-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-12 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-97(LC 10)
Max Uplift 2=-429(LC 12), 8=-429(LC 12)
Max Grav 2=1304(LC 1), 8=1304(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2561/841, 3-4=-2242/718, 4-5=-2044/703, 5-6=-2044/703, 6-7=-2242/718, 7-8=-2561/841
BOT CHORD 2-12=-662/2324, 11-12=-673/2551, 10-11=-673/2551, 8-10=-692/2324
WEBS 3-12=-331/208, 4-12=-105/535, 5-12=-684/212, 5-10=-684/212, 6-10=-105/535, 7-10=-331/207

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=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-2-6, Interior(1) 1-2-6 to 9-0-0, Exterior(2R) 9-0-0 to 13-6-5, Interior(1) 13-6-5 to 23-0-0, Exterior(2R) 23-0-0 to 27-4-6, Interior(1) 27-4-6 to 34-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=429, 8=429.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230002	AG	HIP GIRDER	2	2	T29578090

American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:01:56 2023 Page 2
ID:9g87nFHivtd_NbrkhTQOqzw5dr-yjtn8uvySSYDnZKt?2VYN0jglwAlboc74L1uaXzw5DP

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 9-12=-60, 20-23=-14

Concentrated Loads (lb)

Vert: 4=-163(F) 7=-122(F) 9=-163(F) 18=-285(F) 14=-285(F) 26=-122(F) 28=-122(F) 29=-122(F) 30=-122(F) 31=-122(F) 32=-122(F) 34=-122(F) 35=-61(F)
36=-61(F) 37=-61(F) 38=-61(F) 39=-61(F) 40=-61(F) 41=-61(F) 42=-61(F)



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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



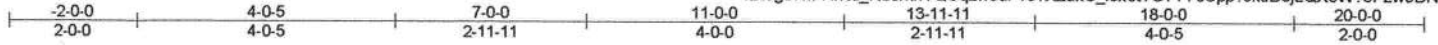
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B230002	BG	Hip Girder	1	1	T29578091

American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:01:58 2023 Page 1

ID:9g87nFHvtd_NbcrkhTQOqzw5dr-v6?XZaxC_iox0ITG7TY0Spp?JkuD3jLQXeW7ePzw5DN



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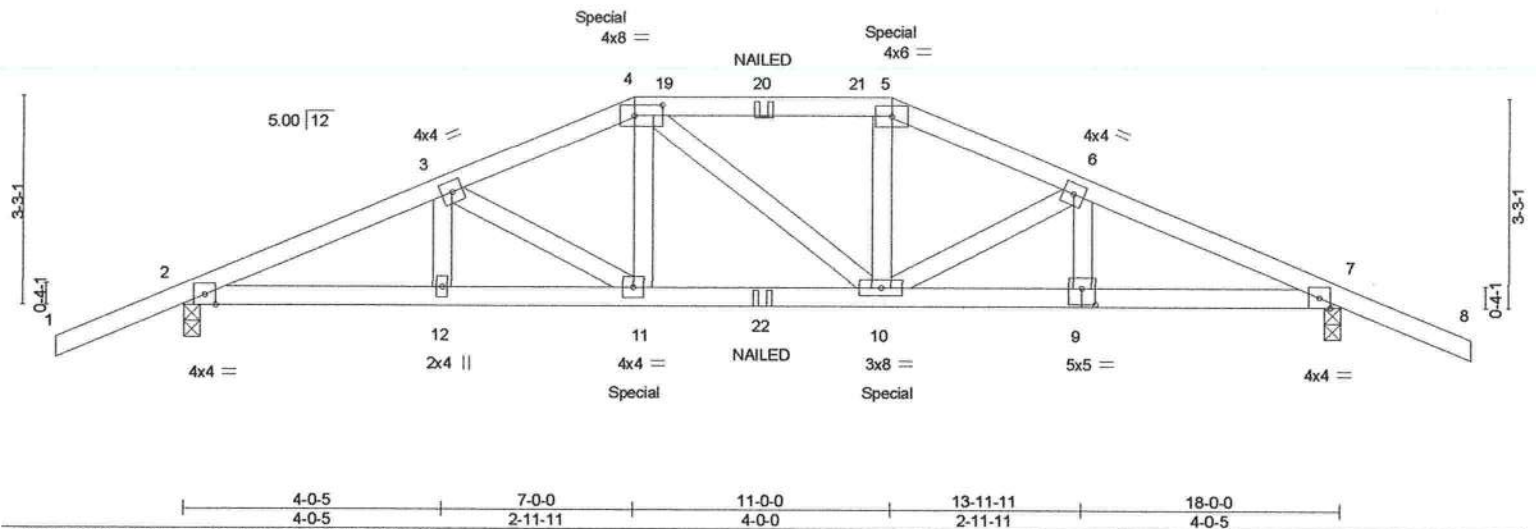


Plate Offsets (X,Y)--		[4:0-5-4,0-2-0], [9:0-2-8,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.09	10-11	>999	360	MT20	244/190	
TCDL 10.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.18	10-11	>999	240			
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.08	Horz(CT)	0.06	7	n/a	n/a			
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.09	11	>999	240			
									Weight: 90 lb	FT = 0%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-6-1 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 8-4-8 oc bracing.
WEBS	2x4 SP No.1		

REACTIONS. (size) 2=0-3-0, 7=0-3-0
Max Horz 2=69(LC 24)
Max Uplift 2=-452(LC 8), 7=-452(LC 8)
Max Grav 2=1447(LC 1), 7=1447(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2940/725, 3-4=-2739/723, 4-5=-2533/691, 5-6=-2740/723, 6-7=-2939/725
BOT CHORD 2-12=-565/2671, 11-12=-565/2671, 10-11=-530/2531, 9-10=-565/2670, 7-9=-565/2670
WEBS 3-11=-269/135, 4-11=-42/534, 5-10=-42/535, 6-10=-269/137

- 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=24ft; eave=4ft; Cat. II; Exp C; Encl., 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
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=452, 7=452.
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 326 lb down and 220 lb up at 7-0-0, and 326 lb down and 220 lb up at 11-0-0 on top chord, and 316 lb down and 65 lb up at 7-0-0, and 316 lb down and 65 lb up at 10-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 5-8=-60, 13-16=-14
Concentrated Loads (lb)
Vert: 4=-279(F) 5=-279(F) 11=-300(F) 10=-300(F) 20=-113(F) 22=-52(F)



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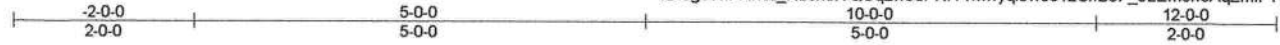


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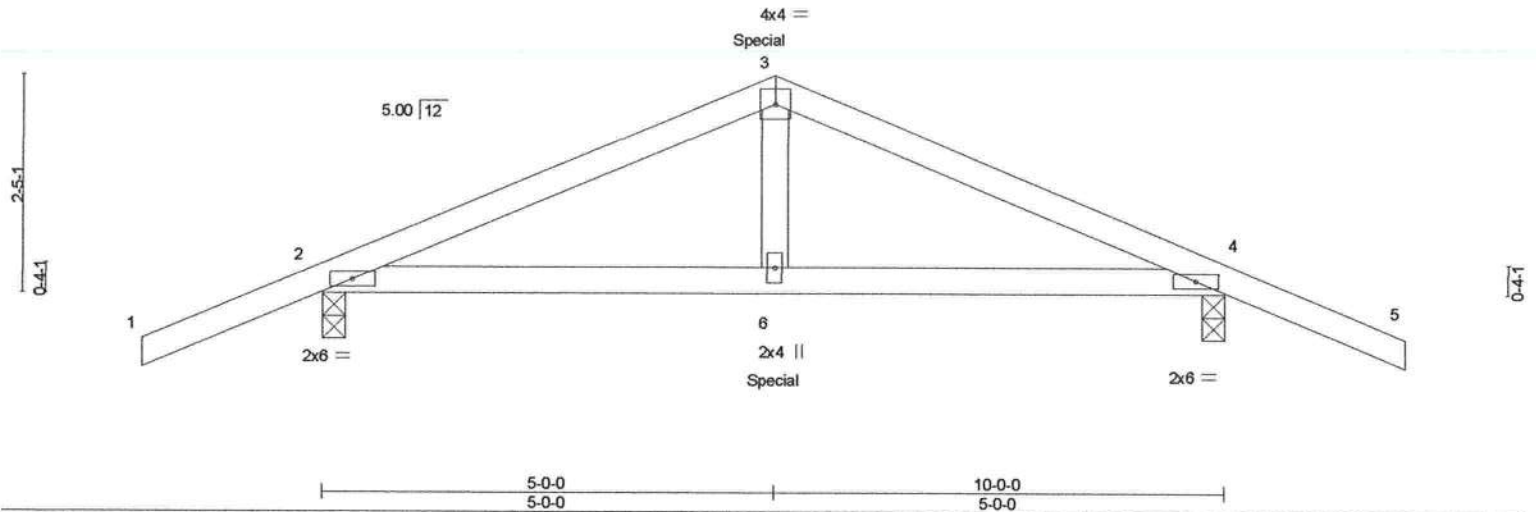
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B230002	CG	Roof Special Girder	1	1	T29578092

American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:01:59 2023 Page 1
ID:9g87nFHvtd_NbrkhTQOqzw5dr-NlYvmwyql0woe12ShB3F_0LEm8lfoAqZmlFYBszw5DM



Scale = 1:25.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	-0.02	6-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.23	Vert(CT)	-0.04	6-12	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.07	Horz(CT)	0.01	4	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014	Matrix-MS	Wind(LL)	-0.02	6	>999	240		
								Weight: 40 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 5-6-6 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=-53(LC 6)
Max Uplift 2=-265(LC 8), 4=-265(LC 8)
Max Grav 2=731(LC 29), 4=731(LC 30)

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

TOP CHORD 2-3=-1242/253, 3-4=-1242/253
BOT CHORD 2-6=-160/1128, 4-6=-160/1128
WEBS 3-6=-26/491

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; Encl., 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.
- 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 (it=lb) 2=265, 4=265.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 354 lb down and 197 lb up at 5-0-0 on top chord, and 409 lb down and 85 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 7-10=-14
Concentrated Loads (lb)
Vert: 6=-252(B) 3=-212(B)



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job B230002	Truss CG1	Truss Type Diagonal Hip Girder	Qty 4	Ply 1	Job Reference (optional) T29578093
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American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:02:01 2023 Page 1
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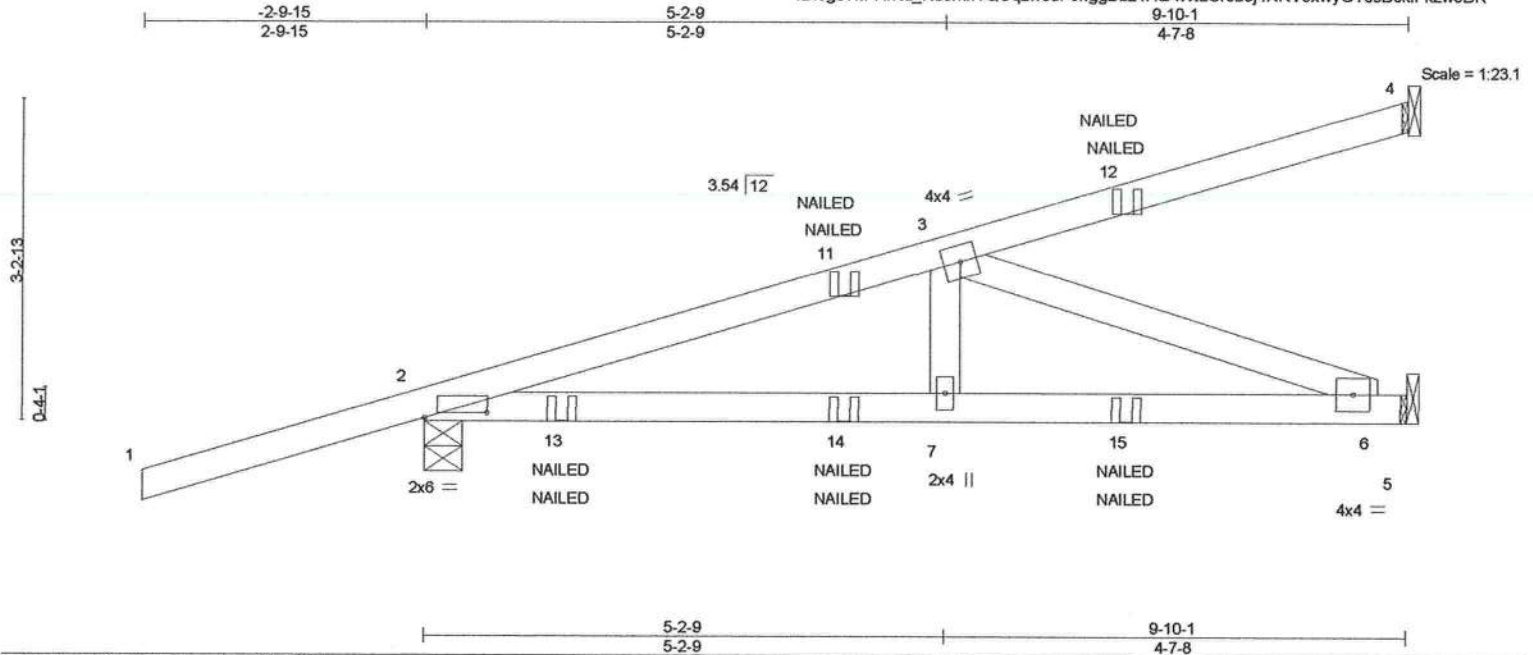


Plate Offsets (X,Y)-- [2:0-7-8,0-0-10]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	2-0-0	TC 0.45	Vert(LL) -0.09	7-10	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.43	Vert(CT) -0.06	6-7	>999	240			
BCLL 0.0 *	Rep Stress Incr NO		WB 0.27	Horz(CT) 0.01	5	n/a	n/a			
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 43 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) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=170(LC 8)
Max Uplift 4=-70(LC 8), 2=-342(LC 8), 5=-54(LC 8)
Max Grav 4=135(LC 1), 2=670(LC 28), 5=295(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-810/157
BOT CHORD 2-7=-212/766, 6-7=-212/766
WEBS 3-6=-815/226

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; Encl., 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=342.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-14
Concentrated Loads (lb)
Vert: 12=-57(F=-29, B=-29) 13=140(F=70, B=70) 14=4(F=2, B=2) 15=-43(F=-21, B=-21)



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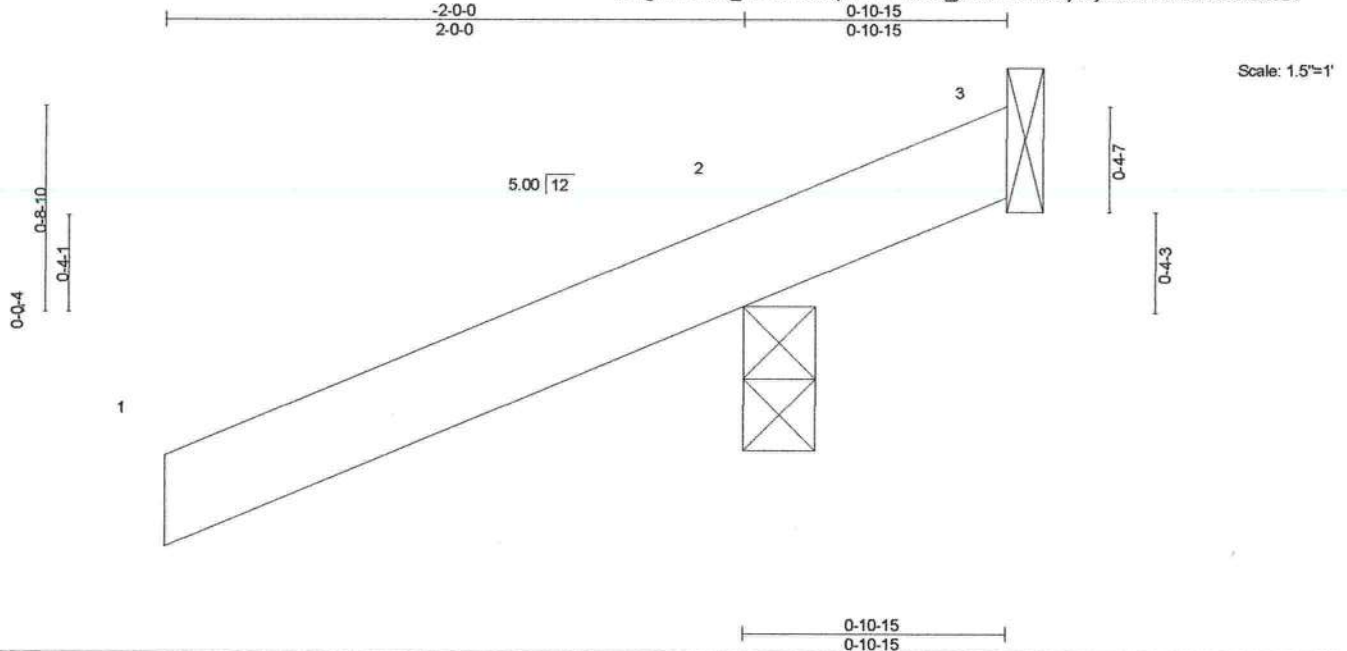
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B230002	CJ1	Jack-Open	16	1	

T29578094

American Truss of Chiefland,

Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:02:02 2023 Page 1
 ID:9g87nFHivtd_NbcrkhTQOqzw5dr-ntE2Ox_j2xINVUn1MJcyfzjhLMz?Yb0SGUCnAzw5DJ



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2.00	TC 0.30	Vert(LL)	0.00	2	>999	360		
TCDL 10.0	Lumber DOL	1.25	BC 0.00	Vert(CT)	0.00	2-3	>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)	-0.00	2-3	>999	240		
									Weight: 5 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1

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

(size) 3=Mechanical, 3=Mechanical, 2=0-3-0
 Max Horz 2=68(LC 12)
 Max Uplift 3=-152(LC 1), 3=-152(LC 1), 2=-291(LC 12)
 Max Grav 3=163(LC 12), 2=326(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=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., 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 100 lb uplift at joint(s) except (jt=lb) 3=152, 2=291.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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2-10-15
2-10-15



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=0-3-0, 4=Mechanical
Max Horz 2=100(LC 12)
Max Uplift 3=-19(LC 12), 2=-160(LC 12)
Max Grav 3=51(LC 1), 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; TC DL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl.; 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 100 lb uplift at joint(s) 3 except (jt=lb) 2=160.



January 13, 2023



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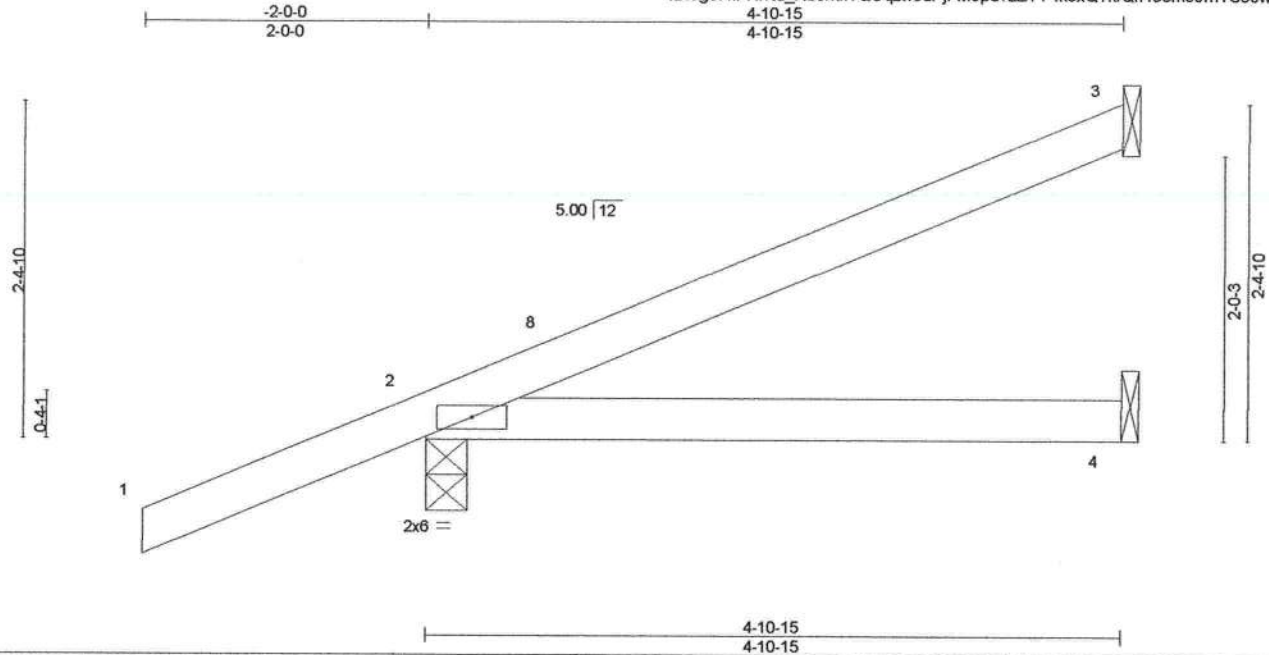


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job B230002	Truss CJ5	Truss Type Jack-Open	Qty 12	Ply 1	Job Reference (optional) T29578096
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American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:02:04 2023 Page 1
ID:9g87nFHvtd_NberkhTQOqzw5dr-jFMopd?zZYY4koxQTkfQh433m90mTS5JwazJs3zw5DH



Scale = 1:16.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.26	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.17	Vert(CT)	-0.04	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)	0.03	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=0-3-8, 4=Mechanical
Max Horz 2=134(LC 12)
Max Uplift 3=-57(LC 12), 2=-156(LC 12)
Max Grav 3=113(LC 1), 2=324(LC 1), 4=73(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; Encl., 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 100 lb uplift at joint(s) 3 except (jt=lb) 2=156.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230002	CJ7	Jack-Open	15	1	T29578097

American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:02:06 2023 Page 1
ID:9g87nFHmtd_NbcrkhTQOqzw5dr-geTZEJ1D59po_65ob9hunV8MlyfPxMabNuSQwywz5DF

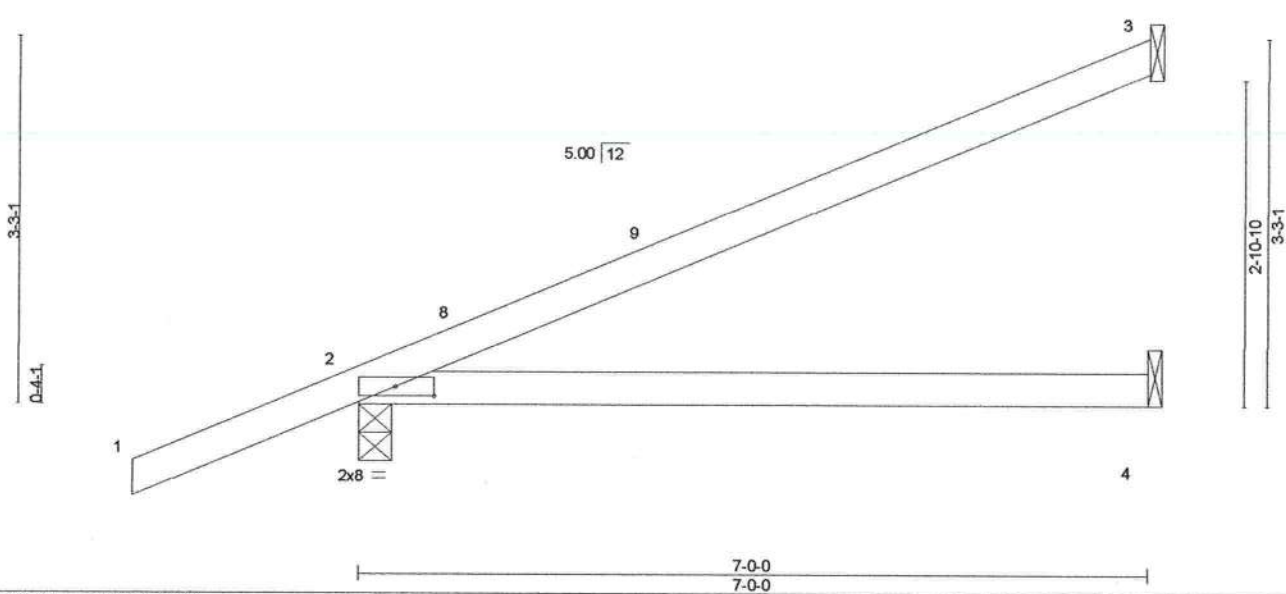


Plate Offsets (X,Y)-- [2:0-4-2,0-1-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.49	Vert(LL)	-0.08	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.17	4-7	>497	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)	0.12	4-7	>692	240	Weight: 25 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=0-3-8, 4=Mechanical
Max Horz 2=170(LC 12)
Max Uplift 3=-93(LC 12), 2=-163(LC 12)
Max Grav 3=173(LC 1), 2=394(LC 1), 4=108(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; Encl., 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 100 lb uplift at joint(s) 3 except (jt=lb) 2=163.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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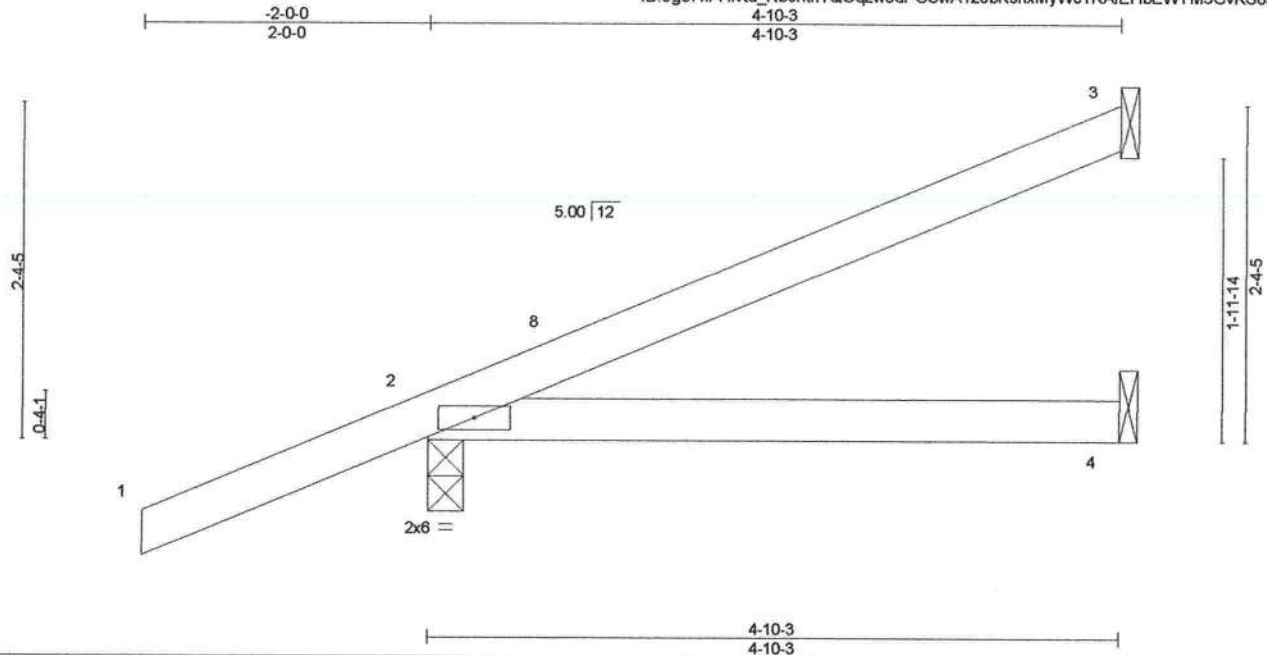


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job B230002	Truss CJ51	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T29578098
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American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:02:05 2023 Page 1
ID:9g87nFHivtd_NbcrkhTQOqzw5dr-CSwA1z0bKshxMyWc1RAfEHbEWM3CvKS8EitOVzw5DG



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.17	Vert(CT)	-0.03	4-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 7.0	Rep Stress Incr YES	Matrix-MP	Wind(LL)	0.03	4-7	>999	240		
	Code FBC2020/TPI2014							Weight: 18 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 4-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=133(LC 12)
Max Uplift 3=-56(LC 12), 2=-156(LC 12)
Max Grav 3=112(LC 1), 2=322(LC 1), 4=72(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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-9-7 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 100 lb uplift at joint(s) 3 except (jt=lb) 2=156.



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B230002	CJ71	Jack-Open	8	1	

T29578099

American Truss of Chiefland, Chiefland, FL - 32626,

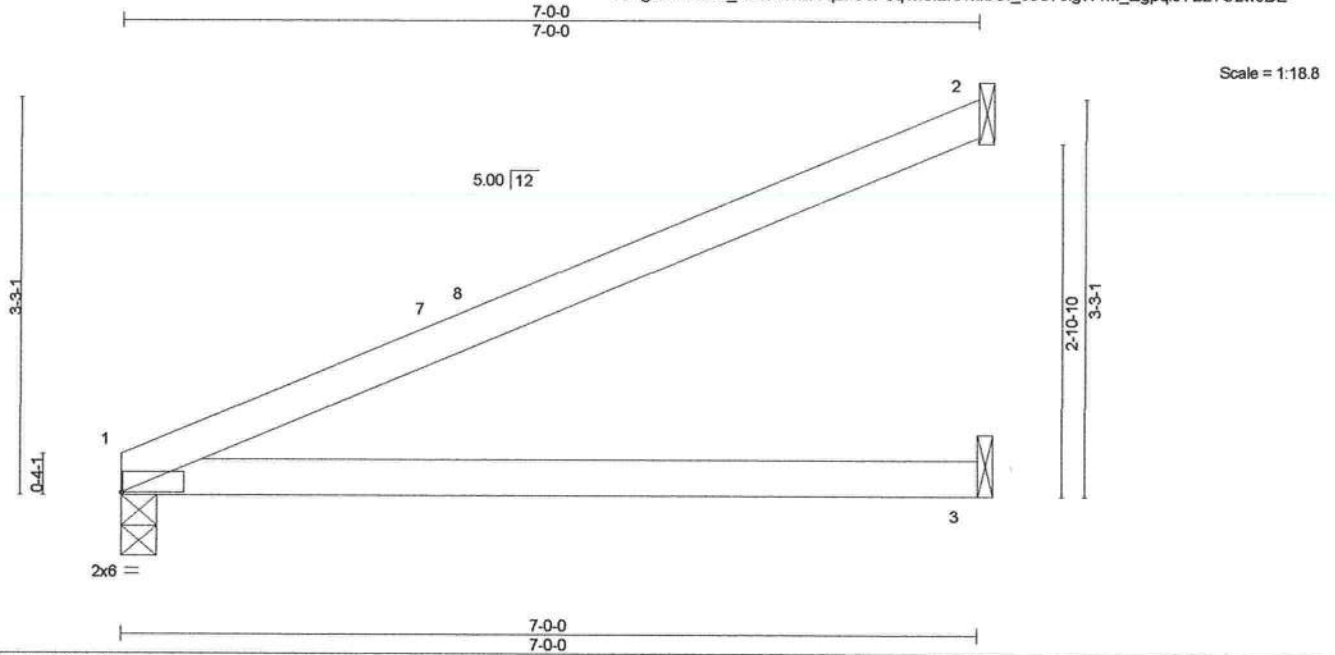
8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:02:07 2023 Page 1
ID:9g87nFHivtd_NbcrkhTQOqzw5dr-8q1xSf2rsTxfGf_9sC7JigW1M_ZgpqlcYBzTOzw5DE

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	-0.09	3-6	>879	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.20	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)	0.15	3-6	>564	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" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.**REACTIONS.**(size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=119(LC 12)
Max Uplift 1=-46(LC 12), 2=-101(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; Encl., 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" tall by 2'-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) 1 except (jt=lb) 2=101.

Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230002	DG	Roof Special Girder	2	1	T29578100

American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:02:09 2023 Page 1

ID:9g87nFHivtd_NberkhTQOqzw5dr-4D9htL36O4BNrZpNGHEbO7mtcAg_8gY23sg4XGzw5DC



Scale = 1:23.5

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.45	Vert(LL)	-0.10	5-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.36	Vert(CT)	0.05	5-10	>999	240		
BCLL 0.0 *	Rep Stress Incr NO		WB 0.24	Horz(CT)	0.00	3	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 43 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 6-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 7=Mechanical, 3=0-3-14
Max Horz 1=-510(LC 29), 7=508(LC 29)
Max Uplift 1=-72(LC 8), 7=-61(LC 8), 3=-332(LC 8)
Max Grav 1=250(LC 1), 7=310(LC 29), 3=518(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-92/550, 2-3=-261/103
BOT CHORD 6-7=-508/202
WEBS 2-6=-808/223

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; Encl., 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
- 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) 1, 7 except (jt=lb) 3=332.
- 7) N/A
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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: 1-4=-60, 7-8=-14
Concentrated Loads (lb)
Vert: 11=-57(F=-29, B=-29) 13=-43(F=-21, B=-21) 14=4(F=2, B=2) 15=140(F=70, B=70)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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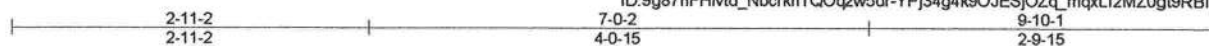
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230002	EG	Roof Special Girder	2	1	T29578101

American Truss of Chiefland, Chiefland, FL - 32626,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jan 12 13:02:10 2023 Page 1

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Scale = 1:18.8

		2-11-2		7-0-2			
		2-11-2		4-0-15			
Plate Offsets (X,Y)-- [3:0-6-12,0-0-6]							
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 0.45	Vert(LL) -0.05 5-10 >999 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.33	Vert(CT) 0.03 5-10 >999 240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.07	Horz(CT) 0.00 3 n/a n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-MP			
						Weight: 31 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.1	

REACTIONS. (size) 1=Mechanical, 7=Mechanical, 3=0-3-14
Max Horz 1=-319(LC 29), 7=317(LC 29)
Max Uplift 1=-69(LC 4), 7=-23(LC 4), 3=-322(LC 8)
Max Grav 1=198(LC 29), 7=237(LC 29), 3=453(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-44/342
BOT CHORD 6-7=-317/117
WEBS 2-6=-519/133

- 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; Encl., 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
 - 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) 1, 7 except (it=lb) 3=322.
 - 7) N/A
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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: 1-4=-60, 7-8=-14
Concentrated Loads (lb)
Vert: 1=-69(B) 7=-31(B) 5=4(F=2, B=2) 11=140(F=70, B=70)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 13, 2023

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

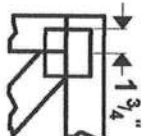
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



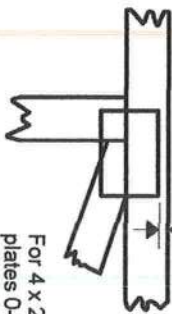
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in 1/16-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 20120 software or upon request.

PLATE SIZE

4 X 4

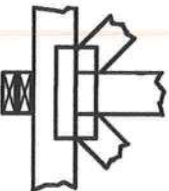
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



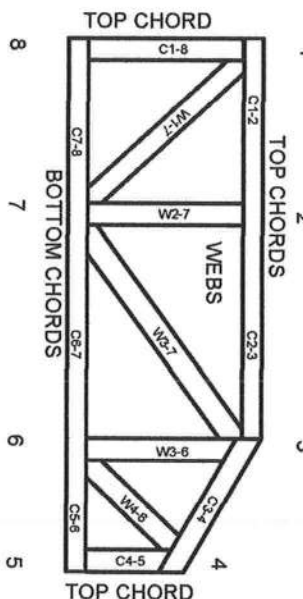
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:
ANSI/TPI1: 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 1/16-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/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: 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/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.