MiTek®

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

RE: 3926202 - IC CONST. - MALOY RES.

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Maloy Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: Fl

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 67 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

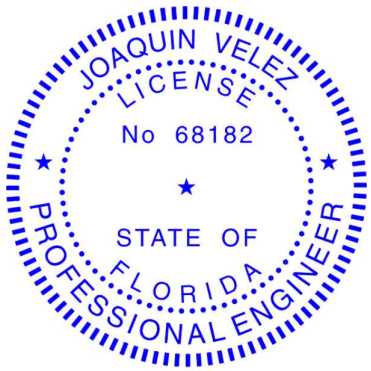
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T33441093	CJ01	4/4/24	15	T33441107	EJ06	4/4/24
2	T33441094	CJ01A	4/4/24	16	T33441108	EJ08	4/4/24
3	T33441095	CJ03	4/4/24	17	T33441109	HJ03	4/4/24
4	T33441096	CJ03A	4/4/24	18	T33441110	HJ04	4/4/24
5	T33441097	CJ03B	4/4/24	19	T33441111	HJ06	4/4/24
6	T33441098	CJ05	4/4/24	20	T33441112	HJ10	4/4/24
7	T33441099	CJ05A	4/4/24	21	T33441113	HJ10A	4/4/24
8	T33441100	CJ05B	4/4/24	22	T33441114	HJ10B	4/4/24
9	T33441101	CJ07	4/4/24	23	T33441115	HJ12	4/4/24
10	T33441102	EJ01	4/4/24	24	T33441116	PB01	4/4/24
11	T33441103	EJ02	4/4/24	25	T33441117	PB02	4/4/24
12	T33441104	EJ03	4/4/24	26	T33441118	PB03	4/4/24
13	T33441105	EJ04	4/4/24	27	T33441119	PB04	4/4/24
14	T33441106	EJ05	4/4/24	28	T33441120	PB05	4/4/24

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2025.

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:

April 4,2024

RE: 3926202 - IC CONST. - MALOY RES.

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

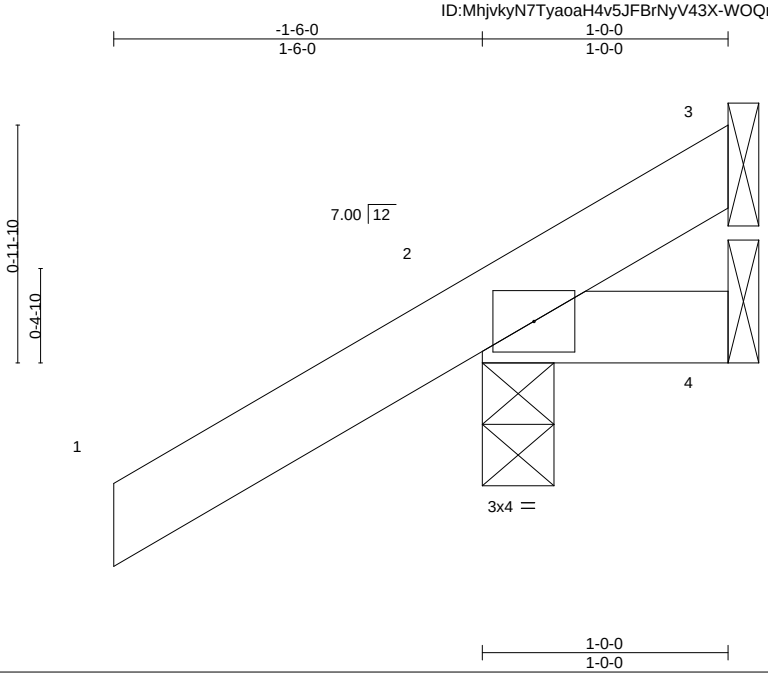
Site Information:

Customer Info: IC CONSTRUCTION Project Name: Maloy Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: Fl

No.	Seal#	Truss Name	Date
29	T33441121	PB06	4/4/24
30	T33441122	PB07	4/4/24
31	T33441123	PB08	4/4/24
32	T33441124	T01	4/4/24
33	T33441125	T02	4/4/24
34	T33441126	T03	4/4/24
35	T33441127	T04	4/4/24
36	T33441128	T05	4/4/24
37	T33441129	T06	4/4/24
38	T33441130	T06G	4/4/24
39	T33441131	T07	4/4/24
40	T33441132	T08	4/4/24
41	T33441133	T09	4/4/24
42	T33441134	T10	4/4/24
43	T33441135	T11	4/4/24
44	T33441136	T12	4/4/24
45	T33441137	T13	4/4/24
46	T33441138	T14	4/4/24
47	T33441139	T15	4/4/24
48	T33441140	T16	4/4/24
49	T33441141	T17	4/4/24
50	T33441142	T18	4/4/24
51	T33441143	T19	4/4/24
52	T33441144	T20	4/4/24
53	T33441145	T21	4/4/24
54	T33441146	T22	4/4/24
55	T33441147	T23	4/4/24
56	T33441148	T24	4/4/24
57	T33441149	T25	4/4/24
58	T33441150	T26	4/4/24
59	T33441151	T27	4/4/24
60	T33441152	T28	4/4/24
61	T33441153	T29	4/4/24
62	T33441154	T30	4/4/24
63	T33441155	T31	4/4/24
64	T33441156	T32	4/4/24
65	T33441157	T33	4/4/24
66	T33441158	T34	4/4/24
67	T33441159	T34G	4/4/24

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	CJ01	Jack-Open	20	1	T33441093
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:52 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-WOQnwSCvty8xXq3rJTuzMleEy0kfsvP1AnJ5jvzURY5



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 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=51(LC 12)
Max Uplift 3=-6(LC 1), 2=-80(LC 12), 4=-23(LC 19)
Max Grav 3=8(LC 16), 2=179(LC 1), 4=22(LC 16)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2, 4.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

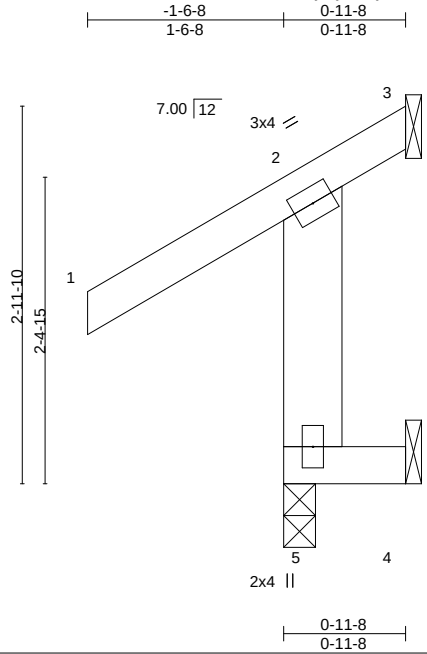
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	CJ01A	Jack-Open	6	1	T33441094
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:52 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-WOQnwSCvty8xXq3rJTuzMleCj0iqsvP1AnJ5jvzURY5



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	0.26	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 0-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 5=-74(LC 10)
Max Uplift 5=-37(LC 16), 3=-66(LC 1), 4=-76(LC 9)
Max Grav 5=240(LC 1), 3=29(LC 10), 4=73(LC 10)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	CJ03	Jack-Open	8	1	T33441095
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:52 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-WOQnwSCvty8xXq3rJTuzMleEy0jFsvP1AnJ5jvzURY5

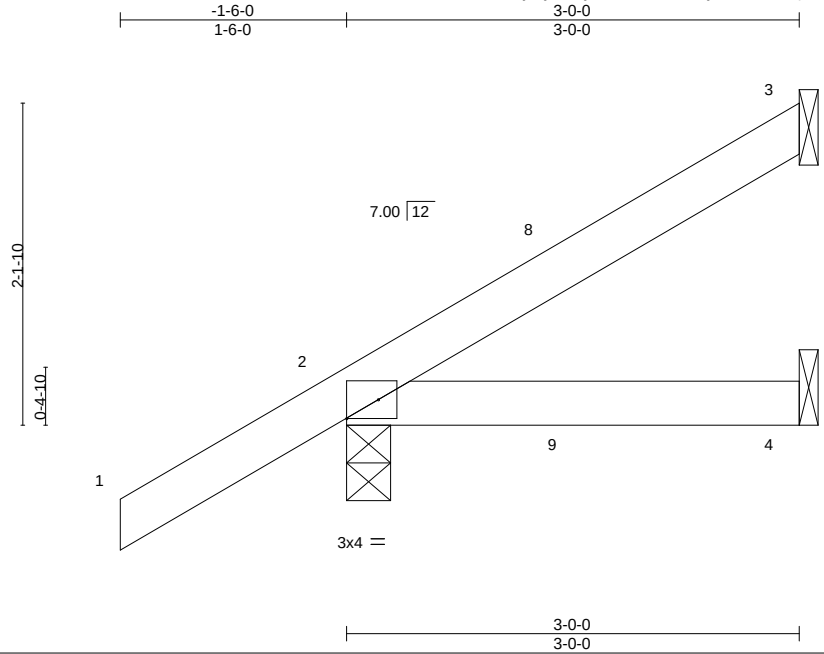


Plate Offsets (X,Y)-- [2:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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=95(LC 12)
Max Uplift 3=-45(LC 12), 2=-65(LC 12), 4=-19(LC 9)
Max Grav 3=62(LC 19), 2=210(LC 1), 4=50(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2, 4.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

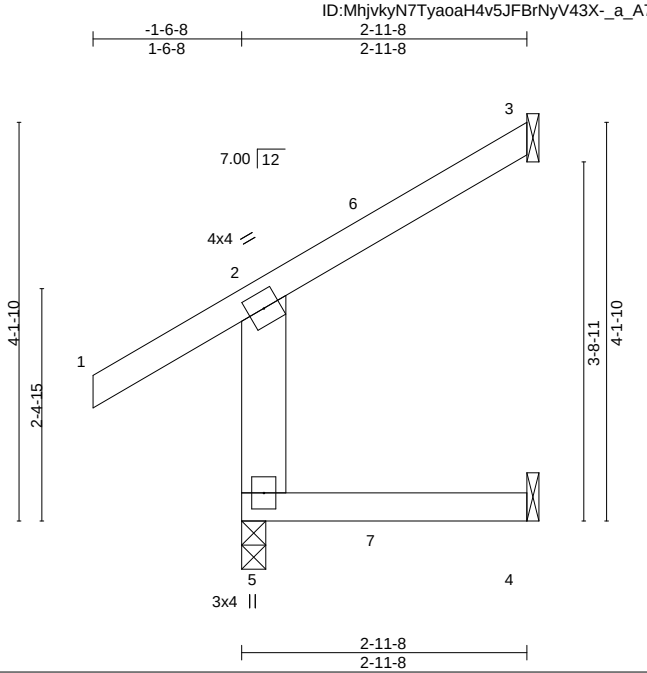
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	CJ03A	Jack-Open	5	1	T33441096
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:53 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-_a_A7oDXeFGo8_e1tBPCuzANTQ1xbMfBOR3eFLzURY4



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	0.26	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 5=94(LC 12)
Max Uplift 5=-4(LC 9), 3=-76(LC 12), 4=-37(LC 9)
Max Grav 5=226(LC 1), 3=61(LC 19), 4=47(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 2-10-12 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

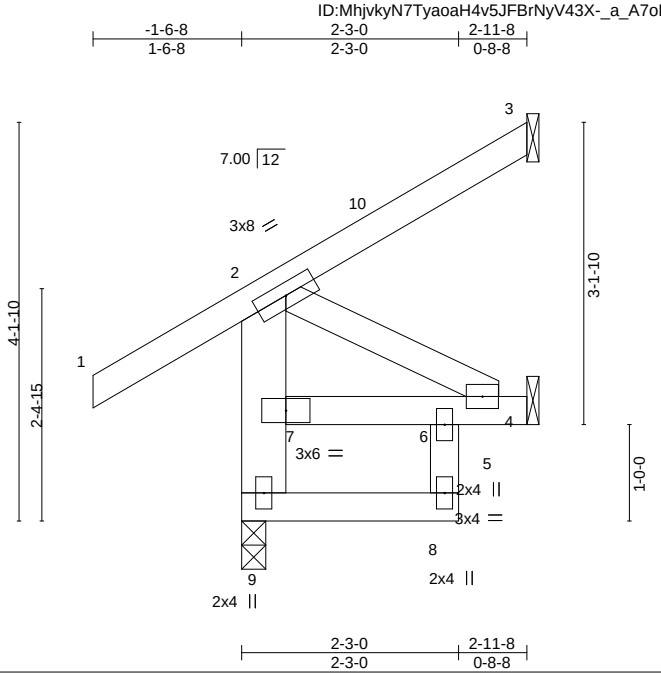
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441097
3926202	CJ03B	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:53 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-_a_A7oDXeFGo8_e1tBPCuzANTQ2XbLZBOR3eFLzURY4



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	0.26	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 6-8: 2x4 SP No.3
WEBS	2x6 SP No.2 *Except* 2-5: 2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 5-6.

REACTIONS. (size) 9=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 9=96(LC 9)
Max Uplift 9=-13(LC 12), 3=-43(LC 12), 4=-52(LC 9)
Max Grav 9=226(LC 1), 3=56(LC 19), 4=73(LC 10)

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

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 2-10-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 3, 4.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

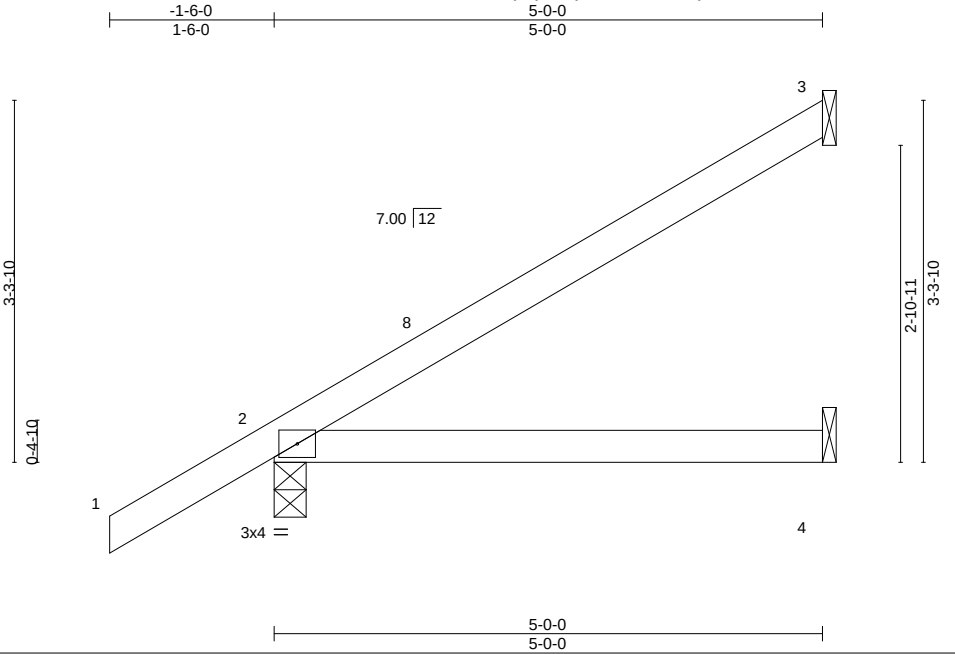
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	CJ05	Jack-Open	8	1	T33441098
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:54 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-TnYYL8E9PZOfm7CDRuwRRAjYvpM3KpvKd5oCnnzURY3



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=140(LC 12)
Max Uplift 3=-84(LC 12), 2=-71(LC 12), 4=-2(LC 12)
Max Grav 3=121(LC 19), 2=276(LC 1), 4=89(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; porch 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, 2, 4.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

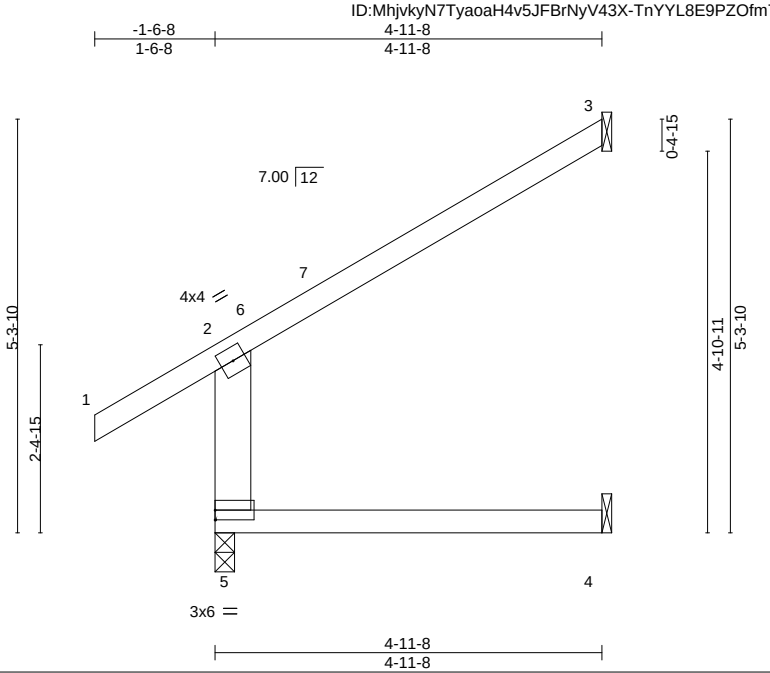
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	CJ05A	Jack-Open	5	1	T33441099
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:54 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-TnYYL8E9PZOfm7CDRuwRRAjVVpFYKpvKd5oCnnzURY3



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	0.50	Vert(LL)	0.08	4-5	>732	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	0.07	4-5	>813	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.21	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 5=122(LC 9)
Max Uplift 5=-22(LC 12), 3=-110(LC 12), 4=-25(LC 12)
Max Grav 5=286(LC 1), 3=127(LC 19), 4=86(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 4-10-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 3=110.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

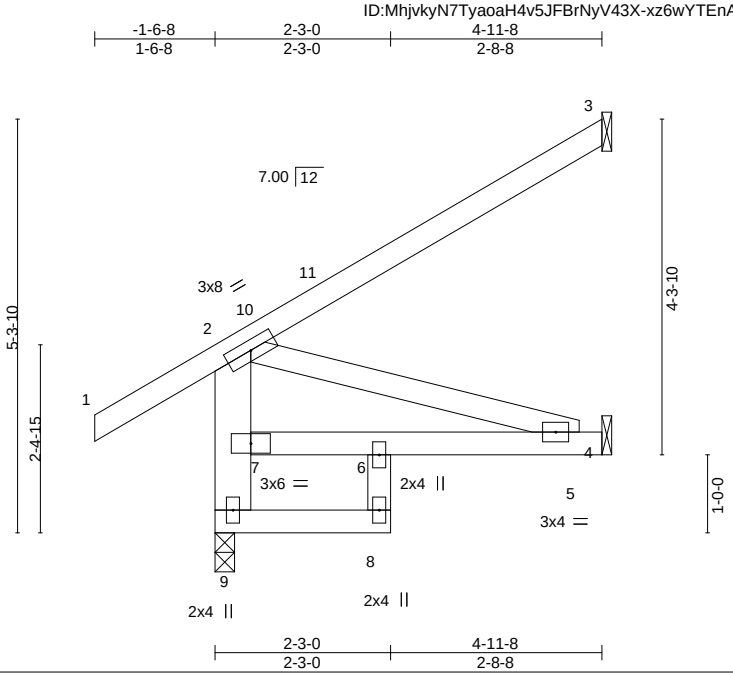
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	CJ05B	Jack-Open	2	1	T33441100
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:55 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-xz6wYTEnAtWWOHnQ_cRg_OFjwDjV3E4UslYlKEzURY2



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	0.26	Vert(LL)	0.02	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 34 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-8: 2x4 SP No.3
WEBS 2x6 SP No.2 *Except*
2-5: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 9=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 9=122(LC 9)
Max Uplift 9=-22(LC 12), 3=-78(LC 12), 4=-56(LC 12)
Max Grav 9=286(LC 1), 3=104(LC 19), 4=96(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-9=-254/152
BOT CHORD 6-7=-364/262, 5-6=-431/273
WEBS 2-5=-283/447

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 4-10-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 3, 4.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441101
3926202	CJ07	Jack-Open	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:55 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-xz6wYTEnAtWWOHnQ_cRg_OFeBDdw3G9UslYlKEzURY2

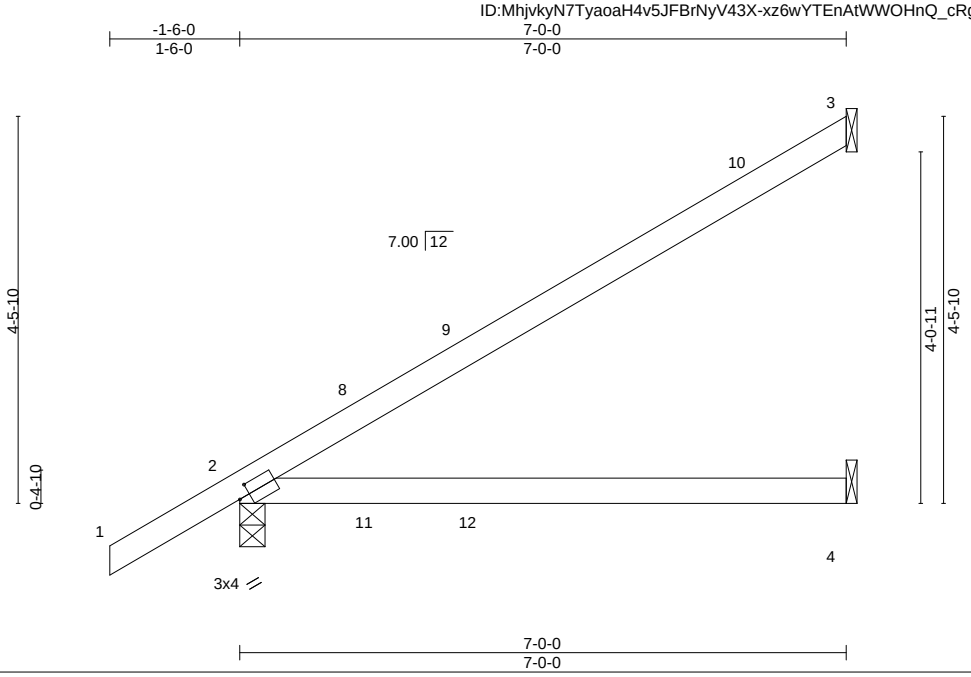


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.19	4-7	>432	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>379	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 25 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=179(LC 12)
Max Uplift 3=-109(LC 12), 2=-82(LC 12), 4=-48(LC 9)
Max Grav 3=169(LC 19), 2=346(LC 1), 4=126(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=109.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441102
3926202	EJ01	Jack-Partial	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:55 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-xz6wYTEnAtWWOHnQ_cRg_OFeBDdw3G9UslYlKEzURY2

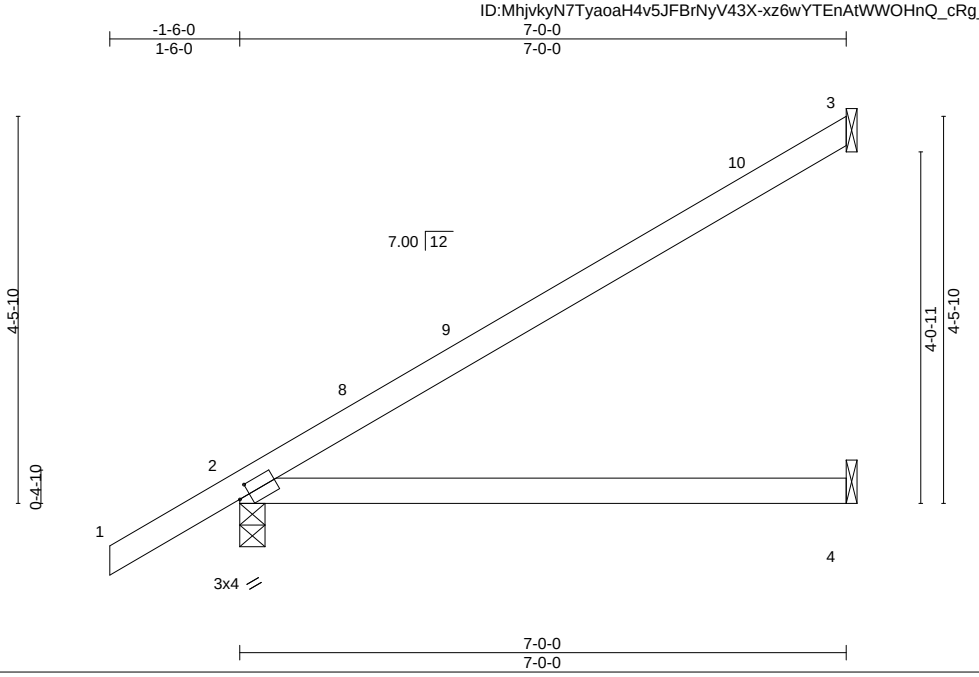


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.12	4-7	>691	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>379	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 25 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=179(LC 12)
Max Uplift 3=-109(LC 12), 2=-82(LC 12), 4=-3(LC 12)
Max Grav 3=175(LC 19), 2=346(LC 1), 4=126(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=109.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

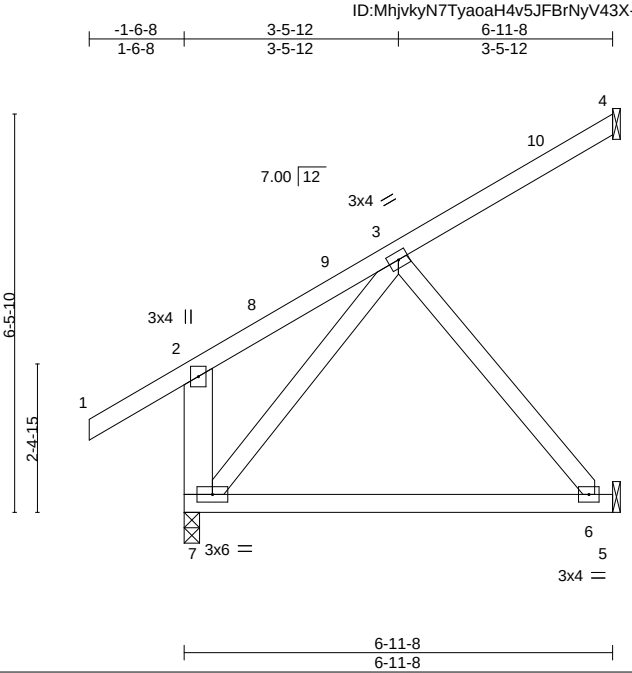
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	EJ02	Jack-Partial	6	1	T33441103
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:56 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-P9fImpFPwAeN?RMcYJyvWbov4d_Boizd4PHJsgzURY1



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.08	6-7	>965	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.17	6-7	>474	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 45 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-0
Max Horz 7=149(LC 12)
Max Uplift 4=-47(LC 12), 5=-110(LC 12), 7=-37(LC 12)
Max Grav 4=82(LC 19), 5=189(LC 19), 7=355(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-173/250

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 6-10-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7 except (jt=lb) 5=110.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

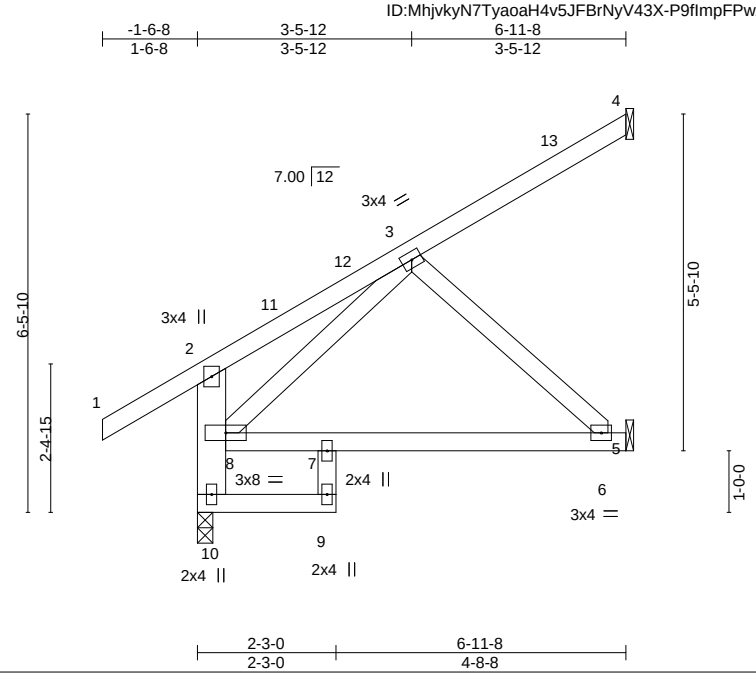
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	EJ03	Jack-Partial	4	1	T33441104
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:56 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-P9fImpFPwAeN?RMcYJyvWbouVd1foimd4PHJsgzURY1



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)	-0.05	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.09	6-7	>855	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 46 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
7-9: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-10: 2x6 SP No.2

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

REACTIONS. (size) 10=0-3-0, 4=Mechanical, 5=Mechanical
Max Horz 10=149(LC 12)
Max Uplift 10=-37(LC 12), 4=-47(LC 12), 5=-110(LC 12)
Max Grav 10=355(LC 1), 4=81(LC 19), 5=190(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-10=-305/150, 2-8=-281/276, 2-3=-309/279
WEBS 3-8=-274/244, 3-6=-214/269

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 6-10-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 4 except (jt=lb) 5=110.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

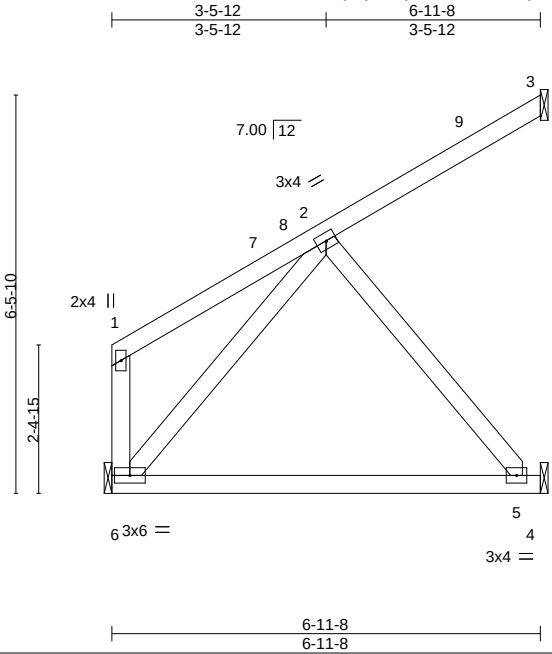
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	EJ04	Jack-Partial	20	1	T33441105
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:57 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-tMDgz9G1hUmEdbxo60U83pL1N1KqX99mJ31sO6zURY0



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.09	5-6	>861	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.19	5-6	>423	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 40 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 6=Mechanical
Max Horz 6=146(LC 12)
Max Uplift 3=-45(LC 12), 4=-115(LC 12)
Max Grav 3=79(LC 19), 4=197(LC 19), 6=250(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 6-10-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) 4=115.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

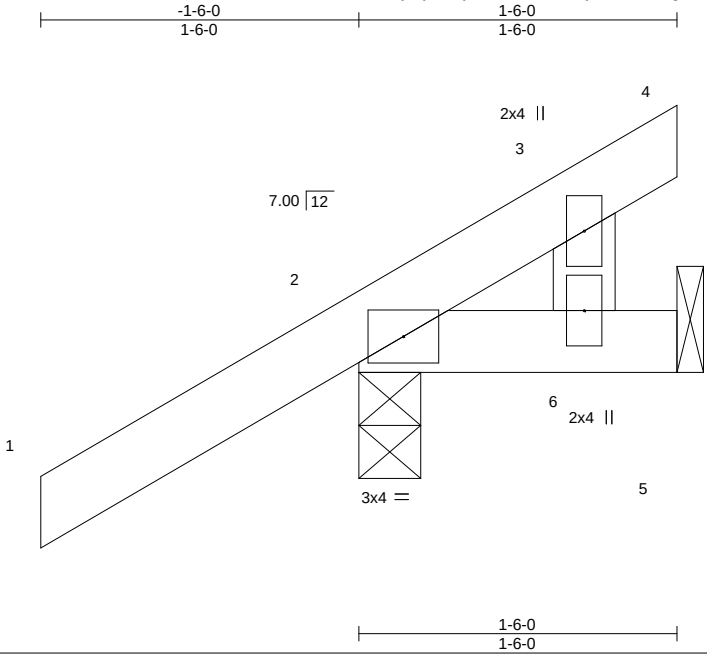
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	EJ05	Jack-Closed	17	1	T33441106
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:57 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-tMDgz9G1hUmEdbxo60U83pL5h1RjXAfmJ31sO6zURY0



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.00	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=61(LC 12)
Max Uplift 2=-70(LC 12), 5=-9(LC 9)
Max Grav 2=177(LC 1), 5=30(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

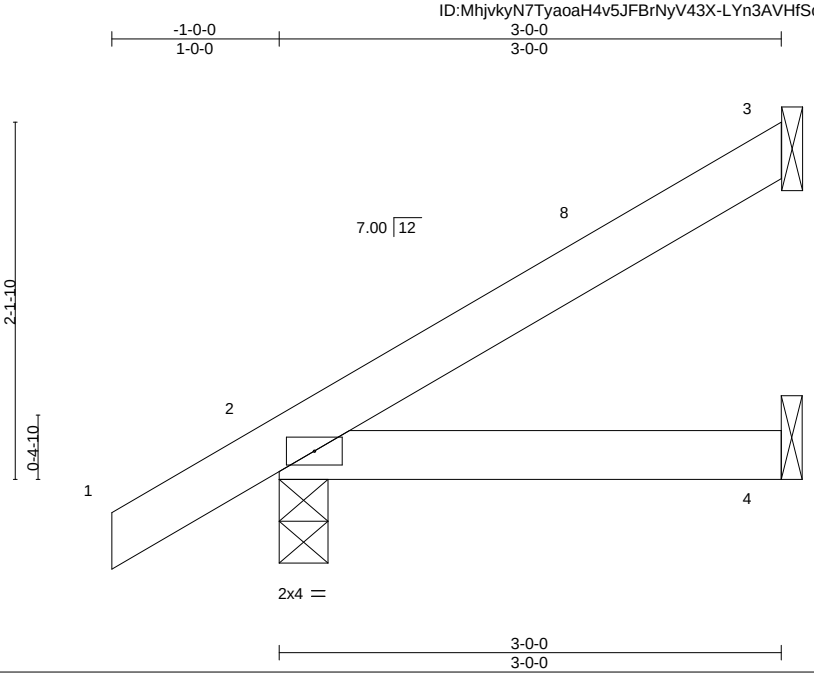
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	EJ06	JACK	3	1	T33441107
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:58 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-LYn3AVHfSou5FlW?gk?Nb0tHzRmaGdvwYjmPwZzURY?



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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=85(LC 12)
Max Uplift 3=-49(LC 12), 2=-45(LC 12), 4=-2(LC 12)
Max Grav 3=70(LC 19), 2=172(LC 1), 4=52(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441108
3926202	EJ08	Monopitch	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:58 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-LYn3AVHfSou5FlW?gk?Nb0tCfRg2Gc2wYjmPwZzURY?

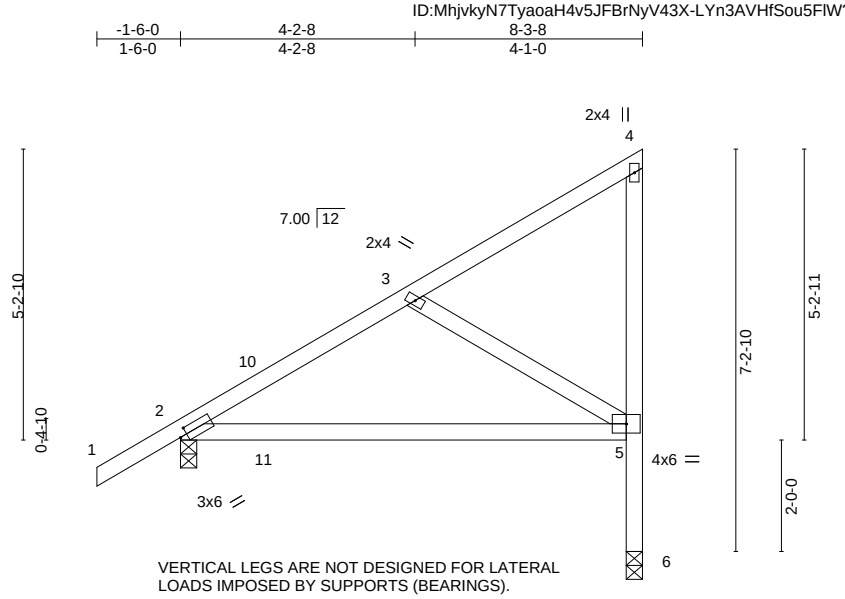


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.11	5-9	>884	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.22	5-9	>440	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 46 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=212(LC 12)
Max Uplift 2=-88(LC 9), 6=-149(LC 12)
Max Grav 2=390(LC 1), 6=294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-305/86, 5-6=-294/283
WEBS 3-5=-272/264

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-1-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=149.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

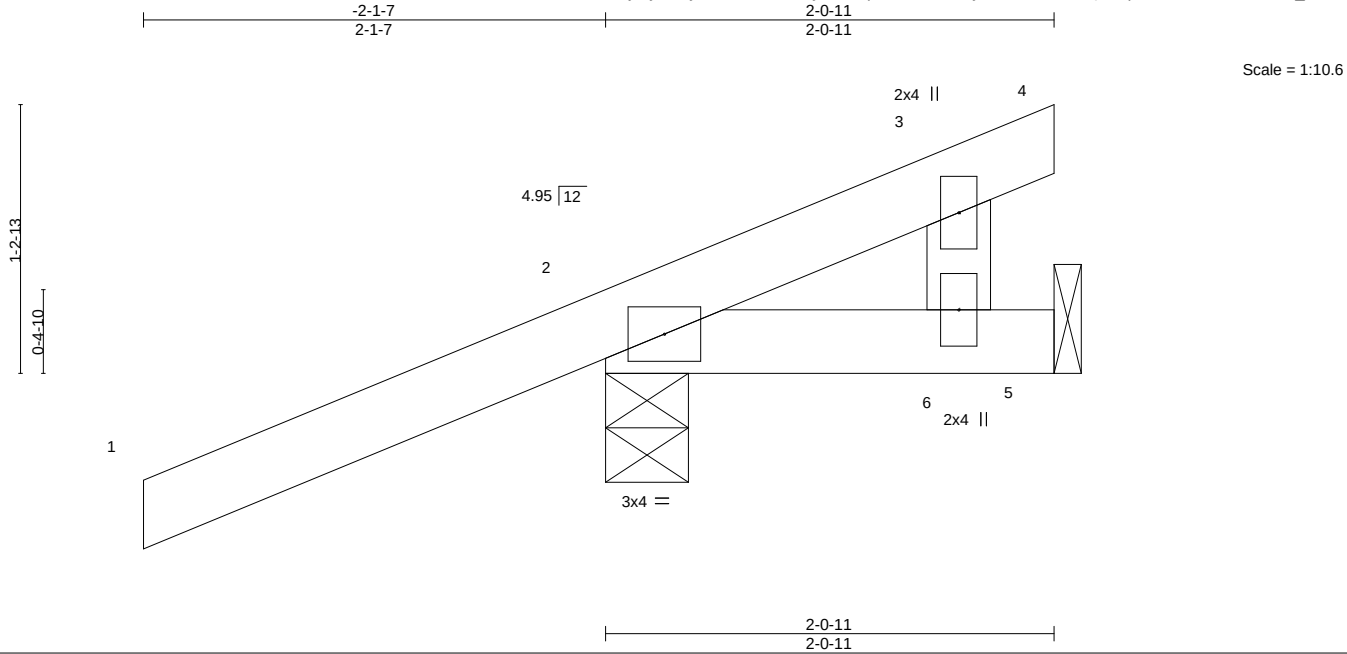
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	HJ03	Diagonal Hip Girder	4	1	T33441109
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:59 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-pkLROrHID50ysv5BDRWc8EQPKq6c?483nNWzT?zURY_



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	0.30	Vert(LL)	0.00	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-4-9, 5=Mechanical
Max Horz 2=61(LC 8)
Max Uplift 2=-133(LC 4), 5=-133(LC 18)
Max Grav 2=249(LC 1), 5=125(LC 32)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=133, 5=133.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 52 lb up at 1-6-1, and 48 lb down and 52 lb up at 1-6-1 on top chord, and 21 lb down and 42 lb up at 1-6-1, and 21 lb down and 42 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 5-7=-20

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

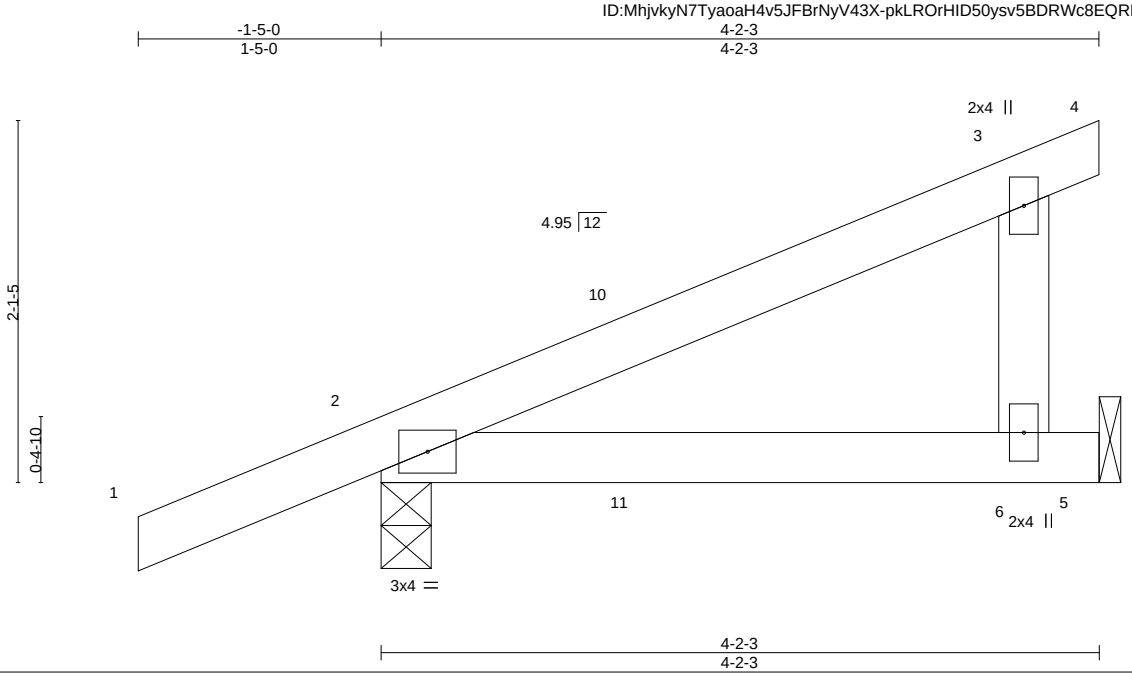
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	HJ04	Diagonal Hip Girder	2	1	T33441110
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:31:59 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-pkLROrHID50ysv5BDRWc8EQRBq56?483nNWzT?zURY_



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.02	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.03	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 17 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=85(LC 8)
Max Uplift 2=-123(LC 8), 5=-84(LC 8)
Max Grav 2=242(LC 1), 5=143(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=123.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 74 lb up at 1-6-1, and 66 lb down and 74 lb up at 1-6-1 on top chord, and 21 lb down and 51 lb up at 1-6-1, and 21 lb down and 51 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 5-7=-20

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

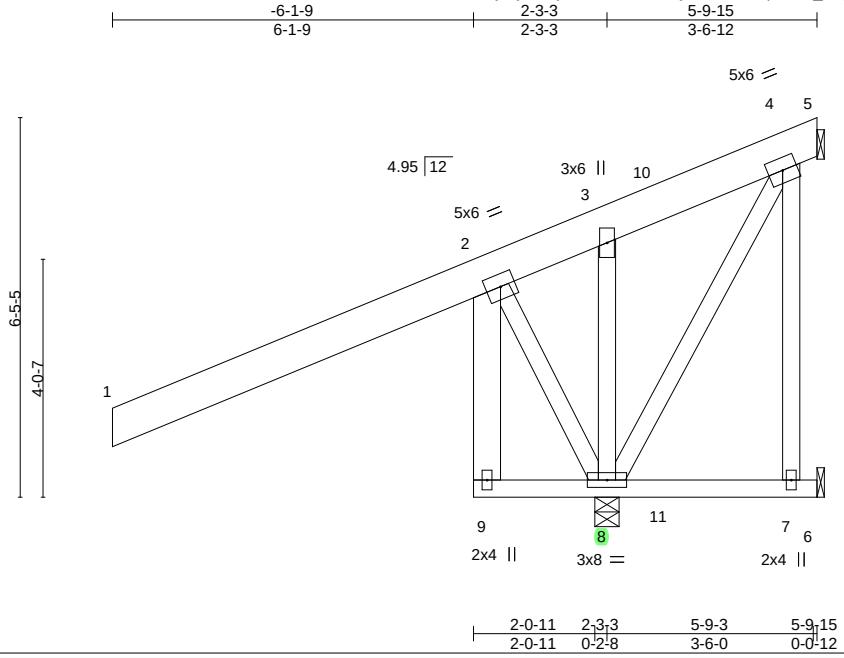
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	HJ06	Diagonal Hip Girder	1	1	T33441111
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:00 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-HwvpbBIw_P8pU2gNn91rhRza3ERZkNFD?1FW_RzURXz



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	0.30	Vert(LL)	-0.00	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 85 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-9: 2x6 SP No.2

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

REACTIONS. (size) 5=Mechanical, 6=Mechanical, 8=0-4-15
Max Horz 8=175(LC 8)
Max Uplift 5=-376(LC 1), 6=-46(LC 3), 8=-652(LC 4)
Max Grav 5=150(LC 21), 6=4(LC 4), 8=1223(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-83/267, 3-4=-197/478
WEBS 2-8=-830/673, 4-8=-849/322, 3-8=-445/344

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever left 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) 6 except (jt=lb) 5=376, 8=652.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 74 lb up at 0-3-14, and 127 lb down and 119 lb up at 3-1-13 on top chord, and 23 lb down and 44 lb up at 0-2-12, and 63 lb down and 38 lb up at 3-1-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-5=-54, 6-9=-20
Concentrated Loads (lb)
Vert: 9=-4(B) 10=-30(B) 11=-20(B)

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

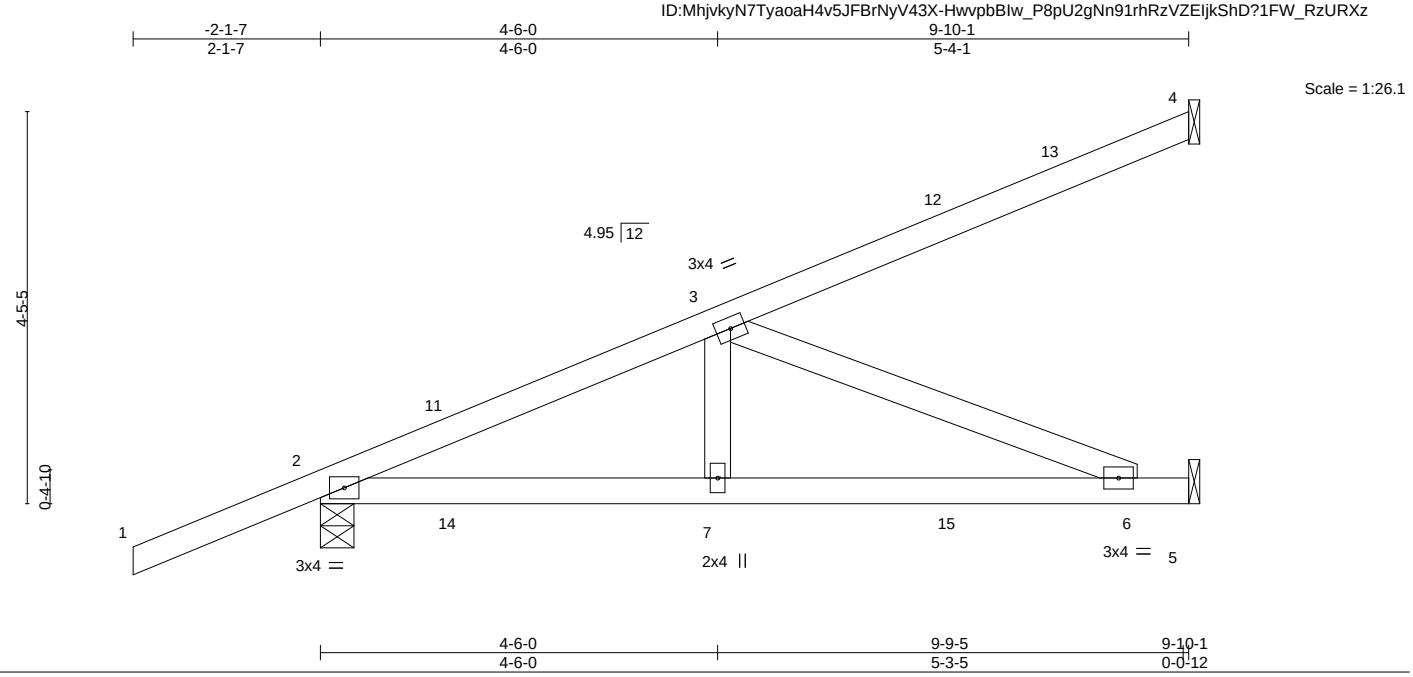
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	HJ10	Diagonal Hip Girder	2	1	T33441112
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:00 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-HwvpbBIw_P8pU2gNn91rhRzVZEIjkShD?1FW_RzURXz



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)	0.07	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.14	6-7	>824	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 44 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-5 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=178(LC 8)
Max Uplift 4=-98(LC 8), 2=-266(LC 4), 5=-144(LC 8)
Max Grav 4=150(LC 1), 2=527(LC 1), 5=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-721/339
BOT CHORD 2-7=-413/632, 6-7=-413/632
WEBS 3-7=-65/301, 3-6=-683/446

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=266, 5=144.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 74 lb up at 1-6-1, 66 lb down and 74 lb up at 1-6-1, 82 lb down and 51 lb up at 4-4-0, 82 lb down and 51 lb up at 4-4-0, and 117 lb down and 95 lb up at 7-1-15, and 117 lb down and 95 lb up at 7-1-15 on top chord, and 21 lb down and 51 lb up at 1-6-1, 21 lb down and 51 lb up at 1-6-1, 18 lb down and 27 lb up at 4-4-0, 18 lb down and 27 lb up at 4-4-0, and 47 lb down and 17 lb up at 7-1-15, and 47 lb down and 17 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-5(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

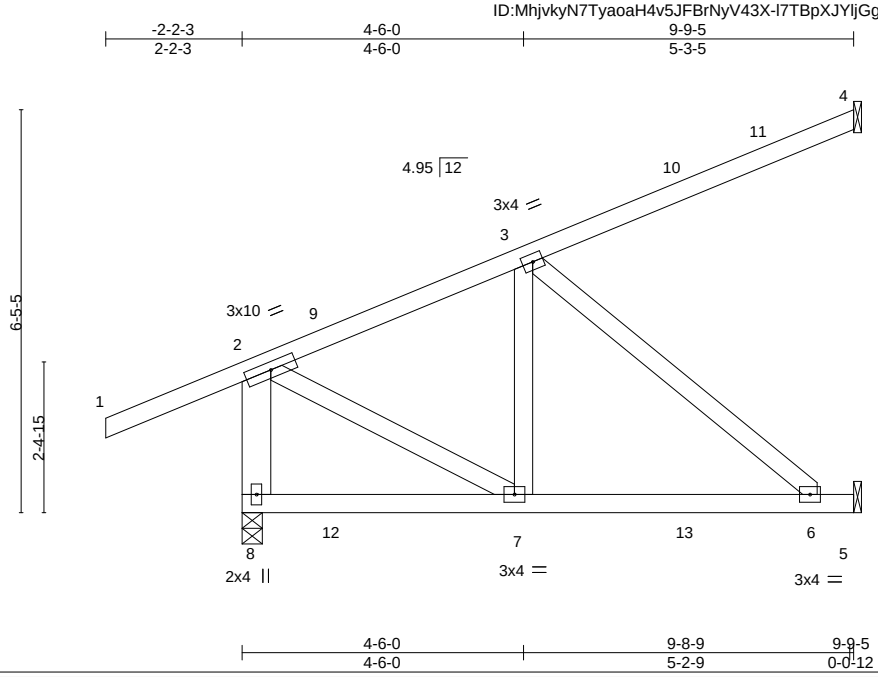
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441113
3926202	HJ10A	Diagonal Hip Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:01 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-l7TBpXJYljGg6CFZLsY4DfVhLegsTw3MEh?4WtzURXy



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	0.53	Vert(LL)	0.10	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.12	6-7	>954	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 59 lb	FT = 20%

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

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

REACTIONS. (size) 8=0-3-14, 4=Mechanical, 5=Mechanical
Max Horz 8=162(LC 5)
Max Uplift 8=-473(LC 4), 4=-116(LC 8), 5=-285(LC 8)
Max Grav 8=523(LC 38), 4=141(LC 1), 5=297(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-488/376, 2-3=-427/327
BOT CHORD 6-7=-373/307
WEBS 2-7=-269/415, 3-6=-402/487

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=473, 4=116, 5=285.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 142 lb up at 1-5-5, 89 lb down and 142 lb up at 1-5-5, 86 lb down and 76 lb up at 4-3-4, 86 lb down and 76 lb up at 4-3-4, and 127 lb down and 119 lb up at 7-1-3, and 127 lb down and 119 lb up at 7-1-3 on top chord, and 65 lb down and 103 lb up at 1-5-5, 65 lb down and 103 lb up at 1-5-5, 14 lb down and 44 lb up at 4-3-4, 14 lb down and 44 lb up at 4-3-4, and 58 lb down and 38 lb up at 7-1-3, and 58 lb down and 38 lb up at 7-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=6(F=3, B=3) 9=73(F=37, B=37) 10=-60(F=-30, B=-30) 12=56(F=28, B=28) 13=-40(F=-20, B=-20)

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	HJ10B	Diagonal Hip Girder	1	1	T33441114
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:01 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-I7TBpXJYljGg6CFZLsY4DfVe2eaaTsdMEh?4WtzURXy

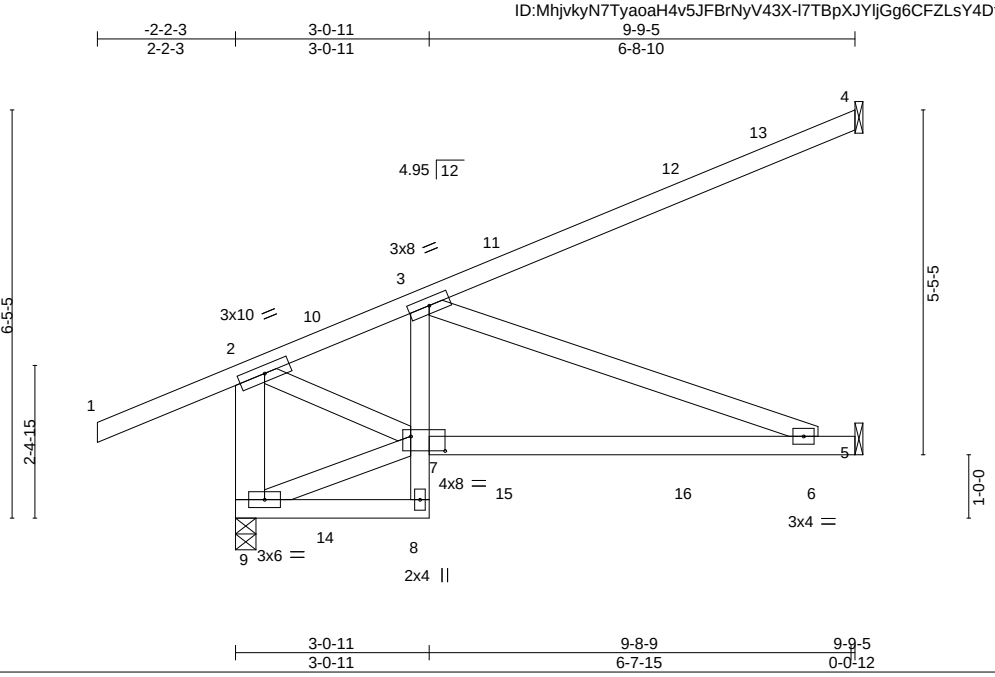


Plate Offsets (X,Y)-- [7:0-6-8,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.30	6-7	>384	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.34	6-7	>334	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.03	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 60 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-8: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-2 oc bracing.

REACTIONS. (size) 9=0-3-14, 4=Mechanical, 5=Mechanical
Max Horz 9=162(LC 5)
Max Uplift 9=-457(LC 4), 4=-121(LC 8), 5=-264(LC 8)
Max Grav 9=562(LC 38), 4=167(LC 1), 5=308(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-518/426, 2-3=-544/442
BOT CHORD 6-7=-606/550
WEBS 2-7=-412/564, 3-6=-584/645

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=457, 4=121, 5=264.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 142 lb up at 1-5-5, 89 lb down and 142 lb up at 1-5-5, 77 lb down and 48 lb up at 4-3-4, 77 lb down and 48 lb up at 4-3-4, and 102 lb down and 85 lb up at 7-1-3, and 102 lb down and 85 lb up at 7-1-3 on top chord, and 65 lb down and 103 lb up at 1-5-5, 65 lb down and 103 lb up at 1-5-5, 65 lb down and 59 lb up at 4-3-4, 65 lb down and 59 lb up at 4-3-4, and 83 lb down and 72 lb up at 7-1-3, and 83 lb down and 72 lb up at 7-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 8-9=-20, 5-7=-20

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

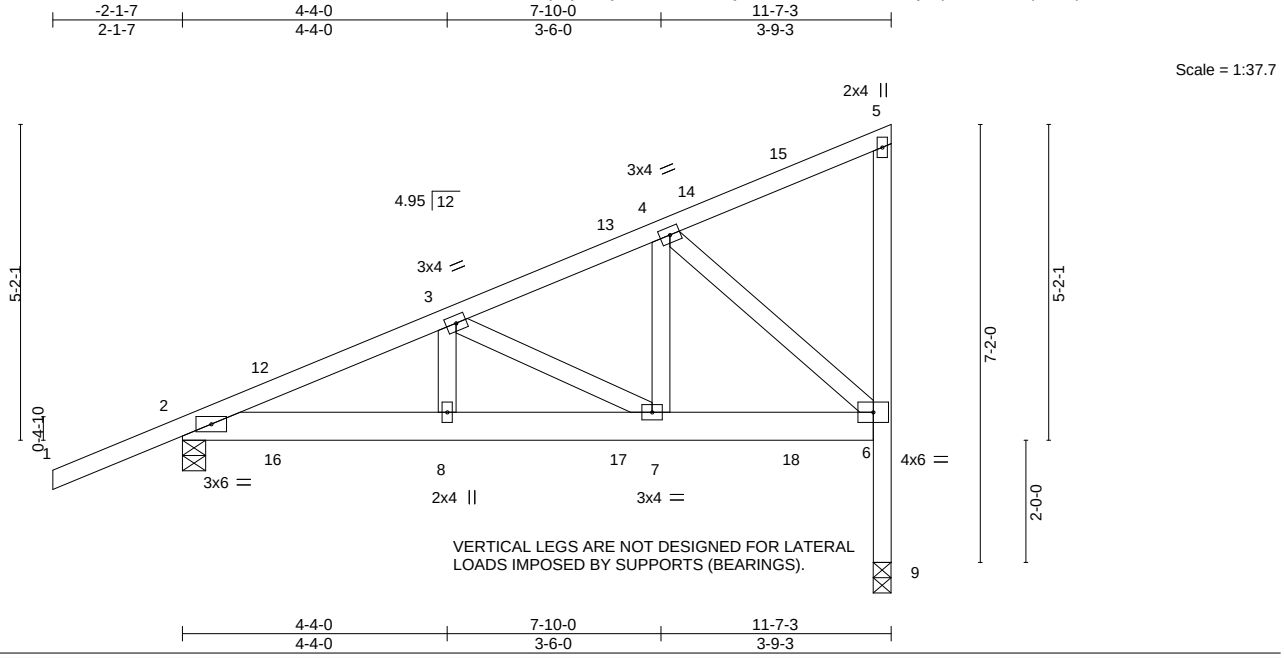
LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 10=73(F=37, B=37) 12=-40(F=-20, B=-20) 14=56(F=28, B=28) 15=13(F=6, B=6) 16=-60(F=-30, B=-30)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441115
3926202	HJ12	Roof Special Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:02 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-EJ1Z0tKAW0OWjMqmva3Jms2qW25qCLuWTLkd3KzURXx



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	0.69	Vert(LL)	0.03	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.03	8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 77 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-9: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-6 oc bracing.

REACTIONS. (size) 2=0-4-9, 9=0-3-8
Max Horz 2=197(LC 8)
Max Uplift 2=-371(LC 4), 9=-482(LC 5)
Max Grav 2=638(LC 1), 9=747(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-925/510, 3-4=-628/332, 6-9=-747/482
BOT CHORD 2-8=-555/824, 7-8=-555/824, 6-7=-356/552
WEBS 3-7=-305/224, 4-7=-166/403, 4-6=-718/462

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=371, 9=482.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 74 lb up at 1-6-1, 66 lb down and 74 lb up at 1-6-1, 82 lb down and 51 lb up at 4-4-0, 82 lb down and 51 lb up at 4-4-0, 117 lb down and 95 lb up at 7-1-15, 117 lb down and 95 lb up at 7-1-15, and 123 lb down and 120 lb up at 9-11-14, and 123 lb down and 120 lb up at 9-11-14 on top chord, and 47 lb down and 51 lb up at 1-6-1, 47 lb down and 51 lb up at 1-6-1, 19 lb down and 27 lb up at 4-4-0, 19 lb down and 27 lb up at 4-4-0, 73 lb down and 17 lb up at 7-1-15, 73 lb down and 17 lb up at 7-1-15, and 70 lb down and 70 lb up at 9-11-14, and 70 lb down and 70 lb up at 9-11-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 2-6=-20

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

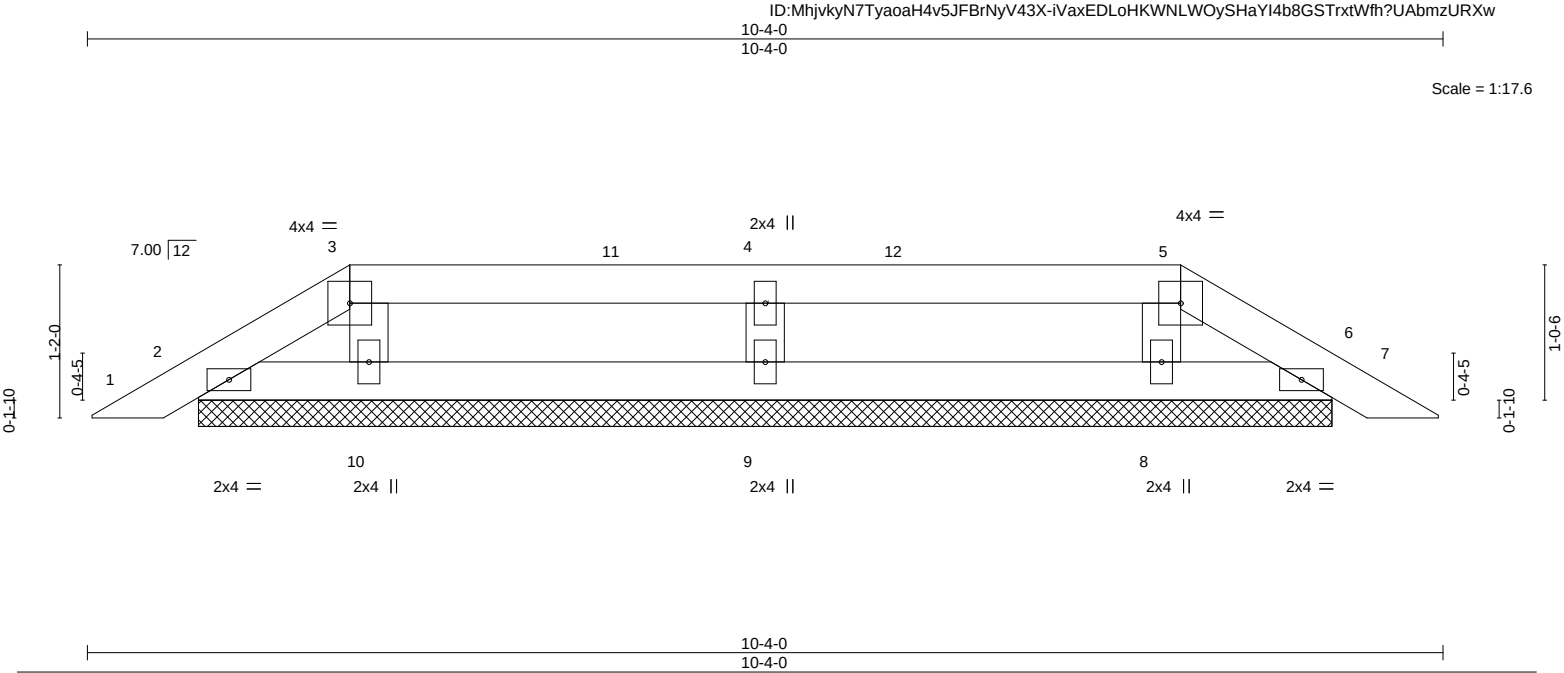
LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=-5(F=-3, B=-3) 13=-73(F=-36, B=-36) 15=-174(F=-87, B=-87) 17=-59(F=-29, B=-29) 18=-112(F=-56, B=-56)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	PB01	GABLE	2	1	T33441116
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:03 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-iVaxEDLoHKWNLWOySHaYI4b8GSTrxtWfh?UAbmzURXw



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	0.11	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 31 lb	FT = 20%

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

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

REACTIONS. All bearings 8-7-11.
(lb) - Max Horz 2=25(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=263(LC 25)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 2-0-0, Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 8-4-0, Zone3 8-4-0 to 10-0-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9, 10, 8.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

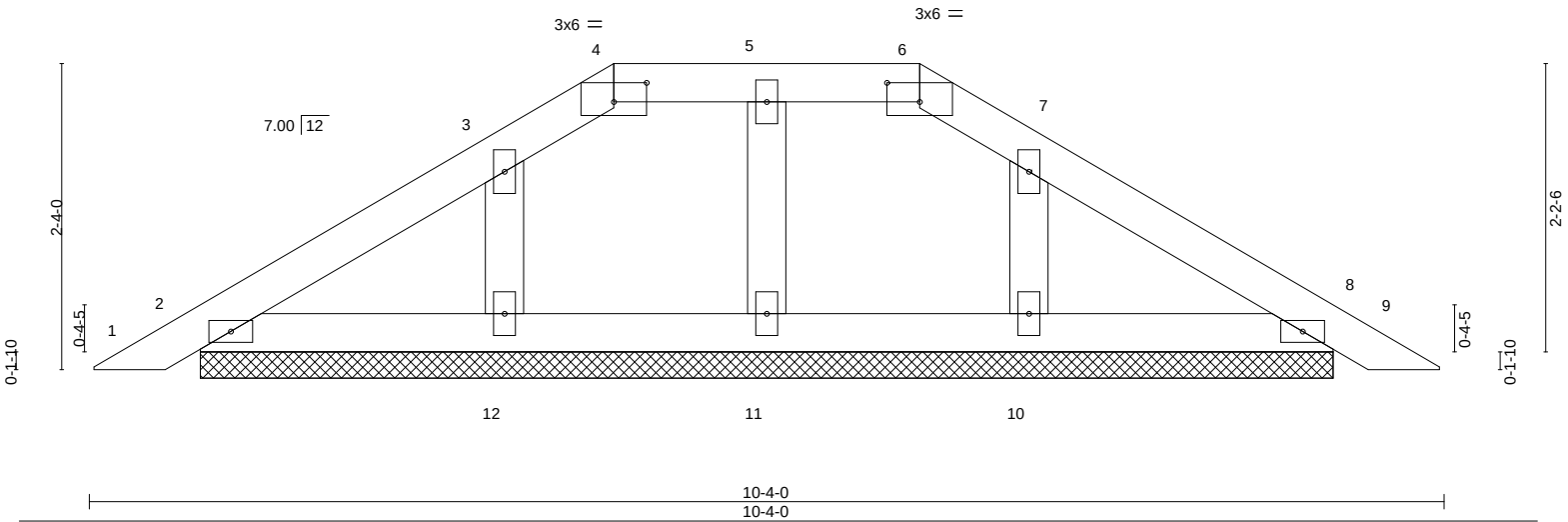
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	PB02	GABLE	2	1	T33441117
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:03 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-iVaxEDLoHKWNLWOySHaYI4b9KSUHxtcfh?UAbmzURXw

4-0-0 6-4-0 10-4-0
4-0-0 2-4-0 4-0-0

Scale = 1:17.6



10-4-0
10-4-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 36 lb	FT = 20%

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

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

REACTIONS. All bearings 8-7-11.
(lb) - Max Horz 2=-54(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 11, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-2-0, Zone1 3-2-0 to 4-0-0, Zone3 4-0-0 to 10-0-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 11, 12, 10.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	PB03	Piggyback	4	1	T33441118
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:04 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-Ai8KRYLQ2eeEzgz80?6nrH7HaroLgKjowfDk7CzURXv

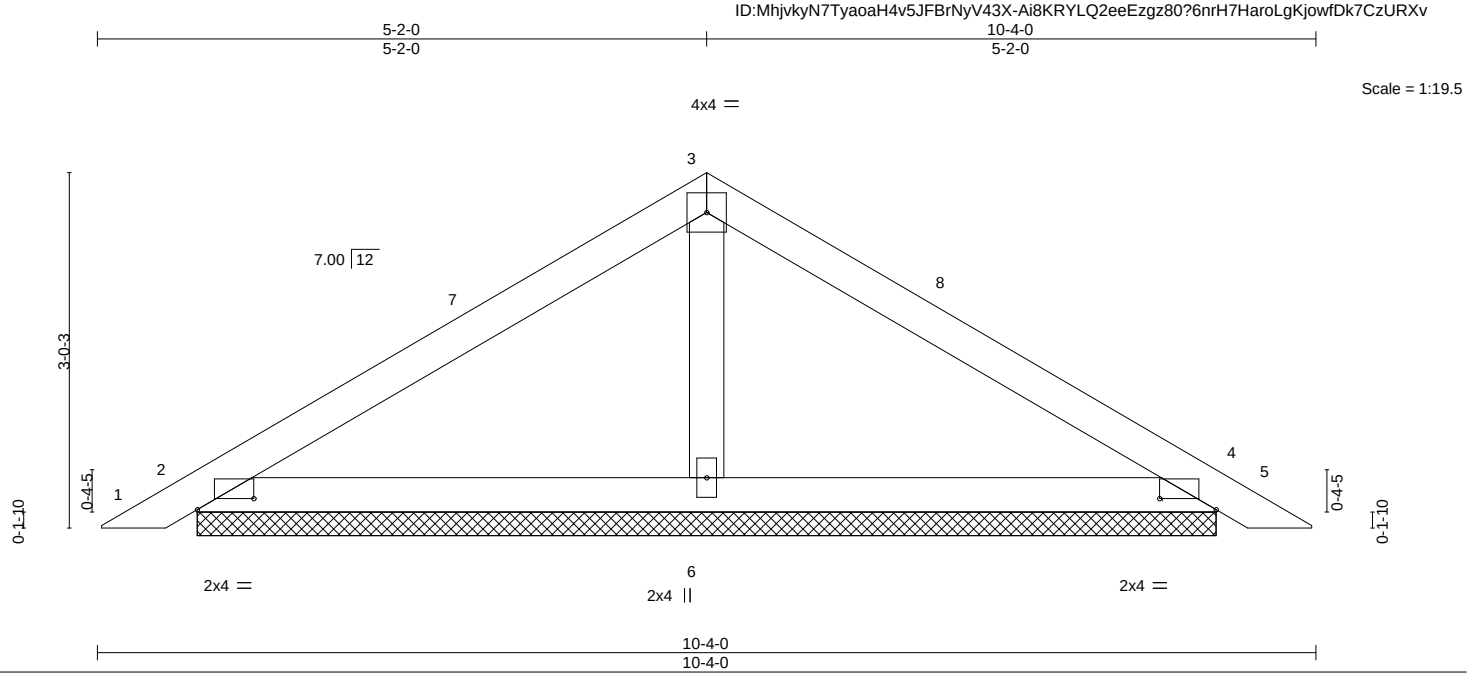


Plate Offsets (X,Y)-- [2:0-5-12,0-1-2], [4:0-5-12,0-1-2]

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	0.21	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 34 lb	FT = 20%

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

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

REACTIONS. (size) 2=8-7-11, 4=8-7-11, 6=8-7-11
Max Horz 2=70(LC 11)
Max Uplift 2=-64(LC 12), 4=-73(LC 13), 6=-60(LC 12)
Max Grav 2=181(LC 1), 4=181(LC 1), 6=335(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 5-2-0, Zone2 5-2-0 to 9-5-13, Zone1 9-5-13 to 10-0-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

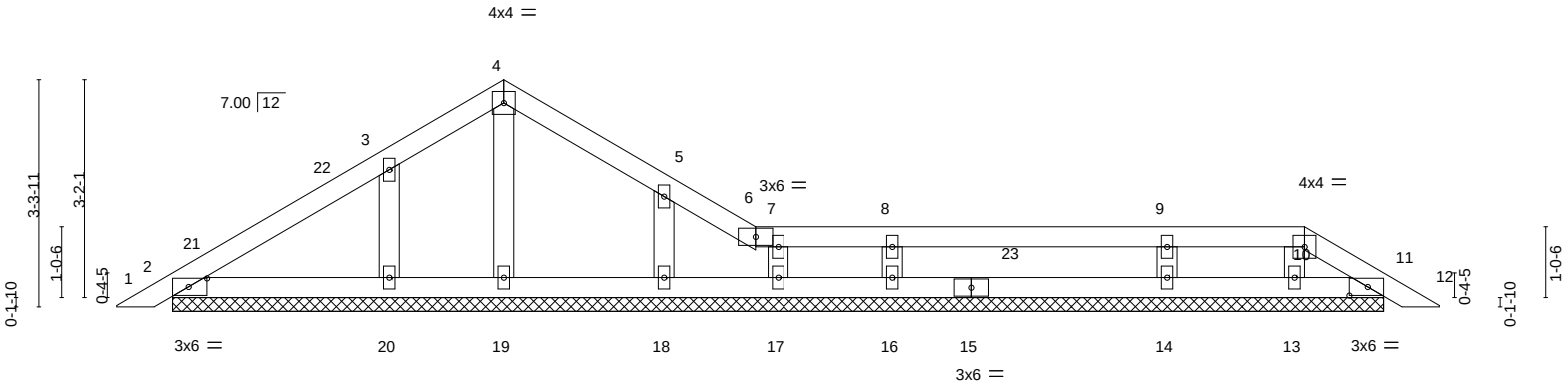
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441119
3926202	PB04	GABLE	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:04 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-Ai8KRYLQ2eeEzgz80?6nrH7J_rpkgKpowfDk7CzURXv

9-4-0 / 9-4-0 | 19-4-0 / 9-11-15

Scale = 1:33.5



19-4-0 / 19-4-0

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [11:0-3-3,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	-0.00	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 69 lb	FT = 20%

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

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

REACTIONS. All bearings 17-7-11.
(lb) - Max Horz 2=-77(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 11, 14, 16, 18, 13 except 20=-118(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 17, 11, 20, 18, 19, 13 except 14=263(LC 26), 16=259(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 5-8-0, Zone3 5-8-0 to 9-4-0, Zone1 9-4-0 to 17-4-0, Zone3 17-4-0 to 19-0-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17, 11, 14, 16, 18, 13 except (jt=lb) 20=118.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	PB05	GABLE	2	1	T33441120
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:05 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-euiieuM2pxm5aqYLaid0OVgTGF9iPn_y9JzHffzURXu

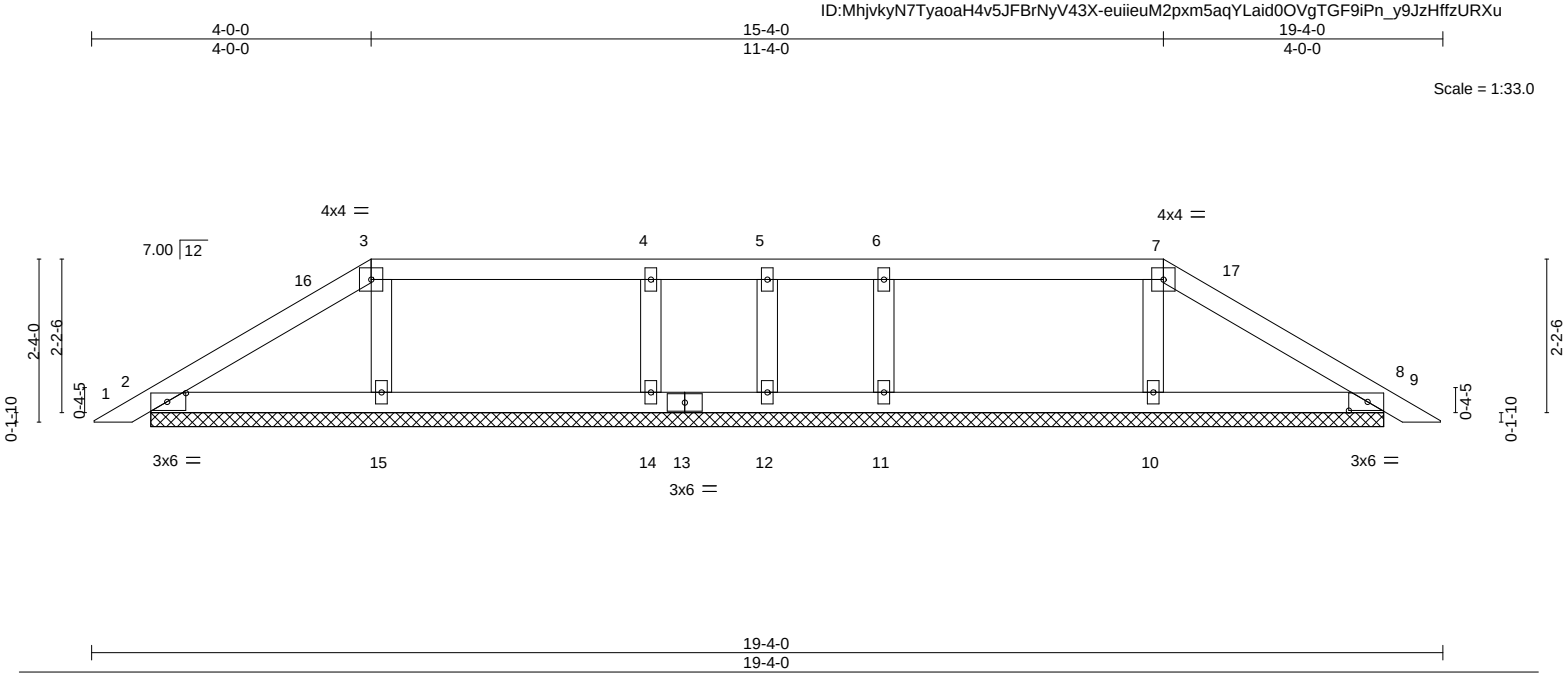


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [8:0-3-3,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 69 lb	FT = 20%

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

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

REACTIONS. All bearings 17-7-11.
(lb) - Max Horz 2=53(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 10, 15, 8 except 11=-106(LC 9), 14=-106(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 8 except 10=267(LC 26), 11=283(LC 25), 15=267(LC 25), 14=283(LC 26)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 15-4-0, Zone3 15-4-0 to 19-0-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 10, 15, 8 except (jt=lb) 11=106, 14=106.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

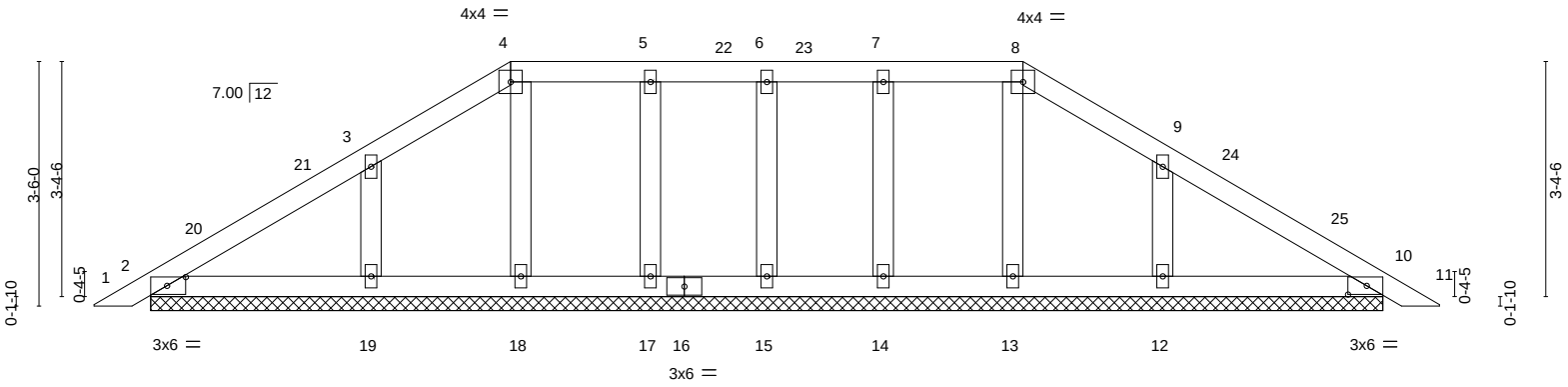
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	PB06	GABLE	2	1	T33441121
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:06 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-64G4sENhaFuyC_7X8P8FwiDerfUW8EG5OzirC5zURXt

19-4-0
19-4-0

Scale = 1:33.0



19-4-0
19-4-0

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [3:0-0-0,0-0-0], [10:0-3-3,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	0.00	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 83 lb	FT = 20%

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

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

REACTIONS. All bearings 17-7-11.
(lb) - Max Horz 2=82(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 14, 17, 10, 18, 13 except 12=-121(LC 13), 19=-122(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 15, 14, 17, 10, 18, 13 except 12=254(LC 20), 19=254(LC 19)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 6-0-0, Zone2 6-0-0 to 10-2-14, Zone1 10-2-14 to 13-4-0, Zone2 13-4-0 to 17-6-15, Zone1 17-6-15 to 19-0-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 14, 17, 10, 18, 13 except (jt=lb) 12=121, 19=122.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

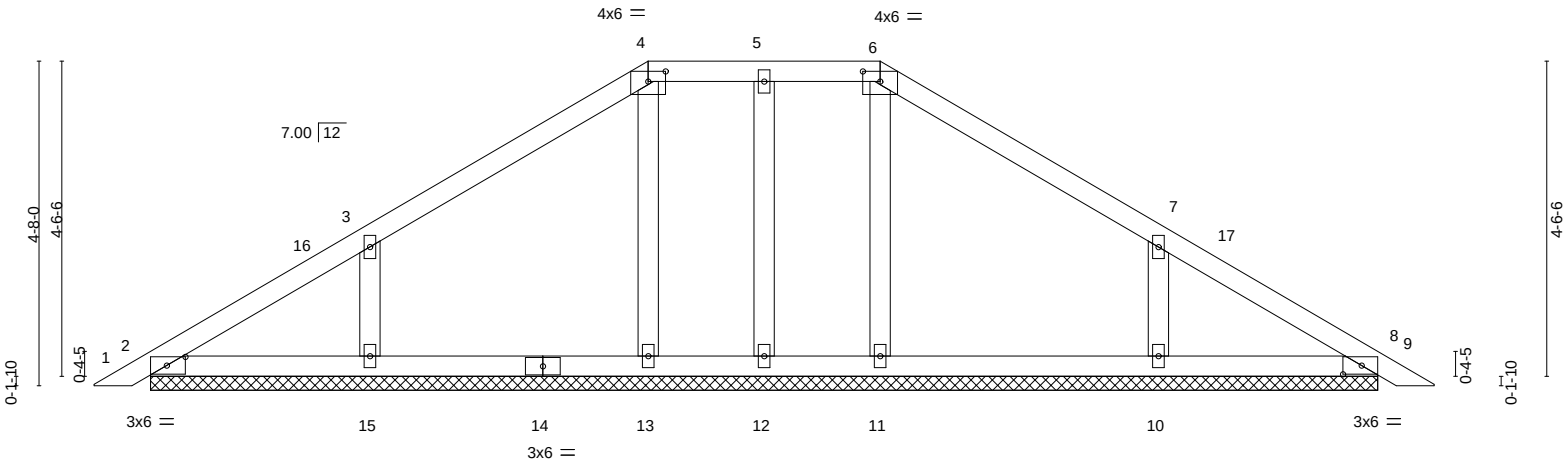
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	PB07	GABLE	2	1	T33441122
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:06 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-64G4sENhaFuyC_7X8P8FwiDdqfUx8E25OzirC5zURXt

8-0-0 11-4-0 19-4-0
8-0-0 3-4-0 8-0-0

Scale = 1:33.1



19-4-0
19-4-0

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [3:0-0-0,0-0-0], [4:0-3-0,0-1-12], [6:0-3-0,0-1-12], [8:0-3-3,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 81 lb	FT = 20%

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

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

REACTIONS. All bearings 17-7-11.
(lb) - Max Horz 2=111(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 11, 13, 8 except 10=-160(LC 13), 15=-161(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 11, 13, 8 except 10=328(LC 20), 15=328(LC 19)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 8-0-0, Zone3 8-0-0 to 11-4-0, Zone2 11-4-0 to 15-4-0, Zone1 15-4-0 to 19-0-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 11, 13, 8 except (jt=lb) 10=160, 15=161.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	PB08	GABLE	9	1	T33441123
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:07 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-aHqS3aOJLZ1pq7ijh7fUTwlol3qBtg3FcdSOkXzURXs

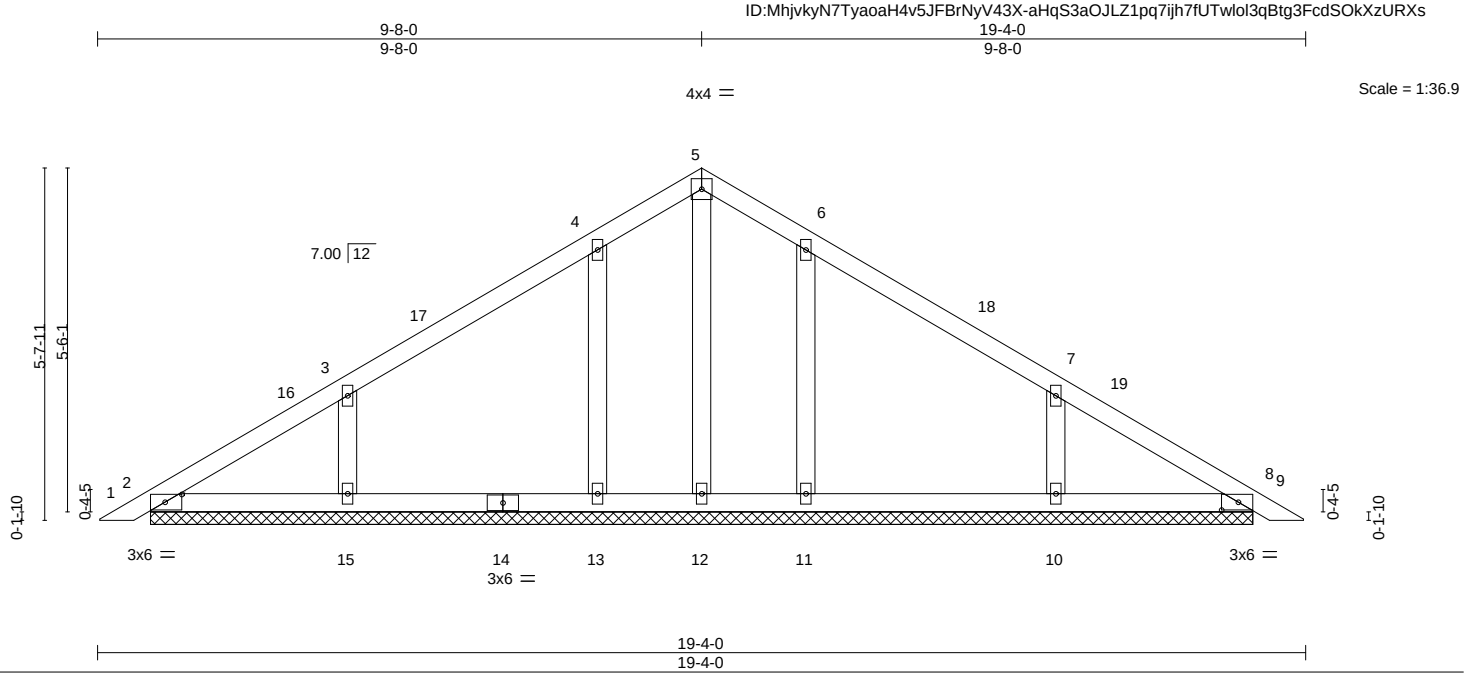


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [8:0-3-3,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 83 lb	FT = 20%

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

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

REACTIONS. All bearings 17-7-11.
(lb) - Max Horz 2=-135(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 8 except 10=-154(LC 13), 11=-120(LC 13), 15=-154(LC 12), 13=-122(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 8 except 10=317(LC 20), 11=264(LC 20), 15=318(LC 19), 13=266(LC 19)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 9-8-0, Zone2 9-8-0 to 13-10-14, Zone1 13-10-14 to 19-0-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 8 except (jt=lb) 10=154, 11=120, 15=154, 13=122.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

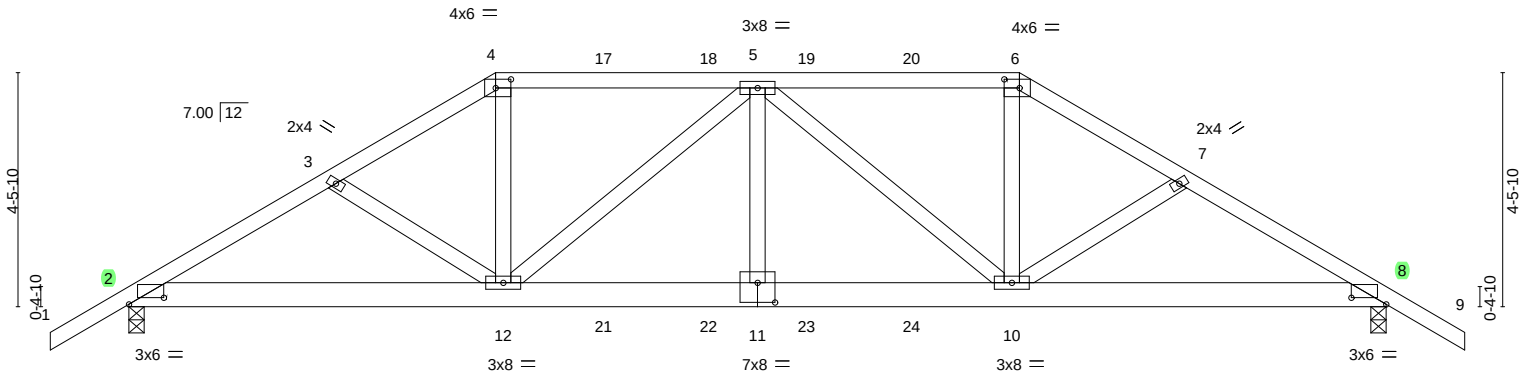
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T01	Hip Girder	1	1	T33441124
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:08 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-2TOqHwOx6s9gRHHwFqAj?7Ir?T2hc0WOrHBxG_zURXr

-1-6-0	3-11-6	7-0-0	12-0-0	17-0-0	20-0-10	24-0-0	25-6-0
1-6-0	3-11-6	3-0-10	5-0-0	5-0-0	3-0-10	3-11-6	1-6-0

Scale = 1:44.0



7-0-0	12-0-0	17-0-0	24-0-0
7-0-0	5-0-0	5-0-0	7-0-0

Plate Offsets (X,Y)-- [2:0-8-0,0-1-8], [4:0-3-8,0-2-0], [6:0-3-8,0-2-0], [8:0-8-0,0-1-8], [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	0.13	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.22	11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 146 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-7 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=123(LC 28)
Max Uplift 2=-730(LC 8), 8=-746(LC 9)
Max Grav 2=1782(LC 1), 8=1813(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3066/1289, 3-4=-2903/1249, 4-5=-2517/1124, 5-6=-2567/1150, 6-7=-2963/1280, 7-8=-3126/1321
BOT CHORD 2-12=-1108/2610, 11-12=-1257/3058, 10-11=-1257/3058, 8-10=-1053/2662
WEBS 4-12=-389/1069, 5-12=-763/395, 5-11=-5/384, 5-10=-684/326, 6-10=-350/1026

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=730, 8=746.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 135 lb down and 115 lb up at 7-0-0, 135 lb down and 112 lb up at 9-0-12, 135 lb down and 112 lb up at 11-0-12, 135 lb down and 112 lb up at 12-11-4, and 135 lb down and 112 lb up at 14-11-4, and 266 lb down and 223 lb up at 17-0-0 on top chord, and 334 lb down and 195 lb up at 7-0-0, 86 lb down and 23 lb up at 9-0-12, 86 lb down and 23 lb up at 11-0-12, 86 lb down and 23 lb up at 12-11-4, and 86 lb down and 23 lb up at 14-11-4, and 334 lb down and 195 lb up at 16-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-9=-54, 2-8=-20

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

LOAD CASE(S) Standard

Concentrated Loads (lb)

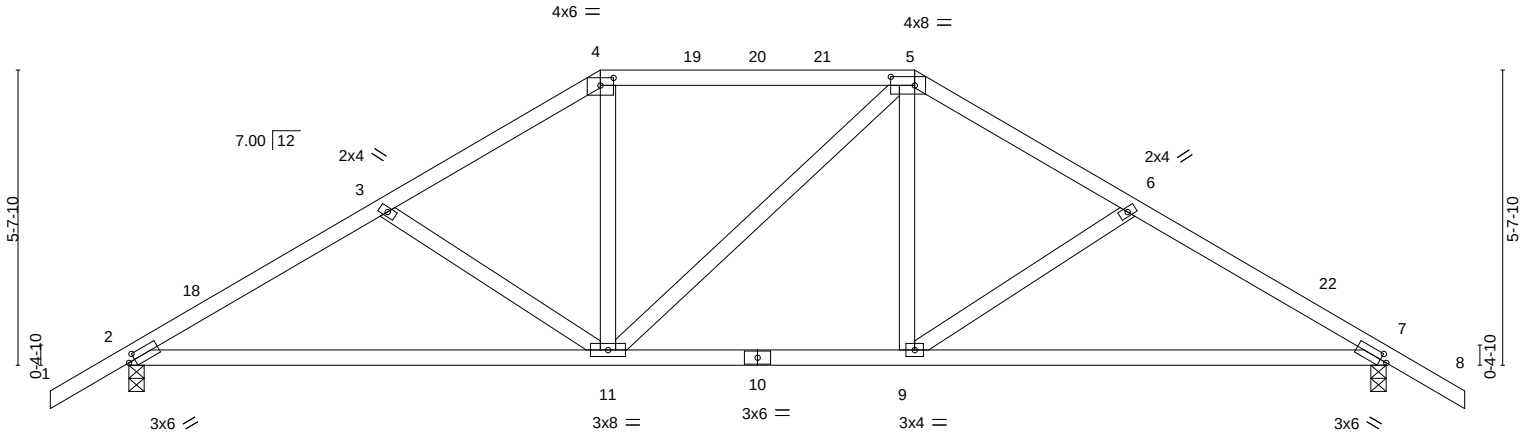
Vert: 4=-109(F) 6=-183(F) 12=-334(F) 10=-334(F) 17=-109(F) 18=-109(F) 19=-109(F) 20=-109(F) 21=-64(F) 22=-64(F) 23=-64(F) 24=-64(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T02	Hip	1	1	T33441125
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:08 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-2TOqHwOx6s9gRHHwFqAj?7IuNT1Ic61OrHBxG_zURXr

-1-6-0	4-11-4	9-0-0	15-0-0	19-0-12	24-0-0	25-6-0
1-6-0	4-11-4	4-0-12	6-0-0	4-0-12	4-11-4	1-6-0

Scale = 1:44.0



9-0-0	15-0-0	24-0-0
9-0-0	6-0-0	9-0-0

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [5:0-5-8,0-2-0], [7:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.16	9-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.33	9-17	>879	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 122 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-152(LC 10)
Max Uplift 2=-269(LC 12), 7=-269(LC 13)
Max Grav 2=969(LC 1), 7=969(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1384/373, 3-4=-1163/308, 4-5=-959/304, 5-6=-1163/309, 6-7=-1384/373
BOT CHORD 2-11=-329/1166, 9-11=-120/958, 7-9=-226/1166
WEBS 3-11=-295/186, 4-11=-50/361, 5-9=-62/361, 6-9=-296/186

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-0-0, Zone2 15-0-0 to 19-2-6, Zone1 19-2-6 to 25-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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=269, 7=269.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T03	Hip	1	1	T33441126
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:09 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-WfyDUGPZtAHX3Rs6pYhyYLr6osR1LWHX4xxVoQzURXq

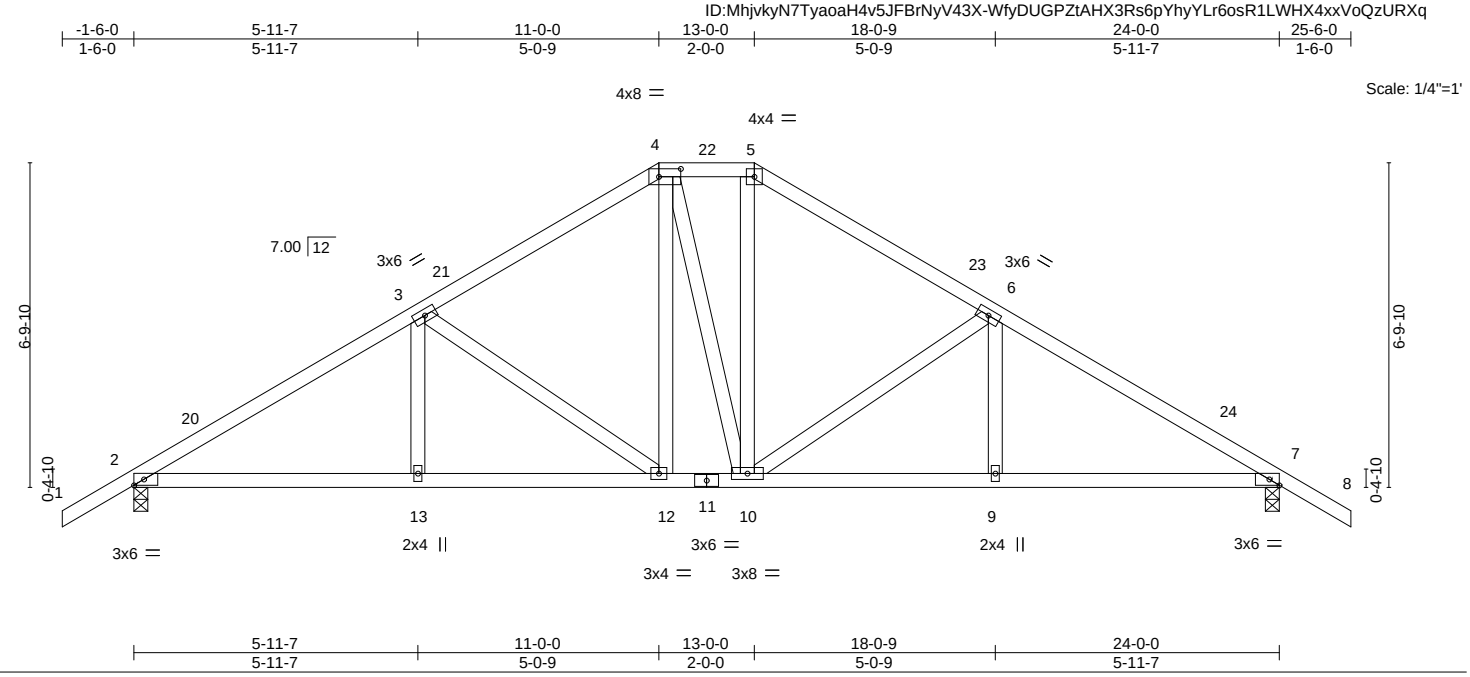


Plate Offsets (X,Y)-- [4:0-5-8,0-2-0], [7:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.05	12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.10	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 138 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=181(LC 11)
Max Uplift 2=-264(LC 12), 7=-264(LC 13)
Max Grav 2=969(LC 1), 7=969(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1416/341, 3-4=-1016/279, 4-5=-815/279, 5-6=-1018/279, 6-7=-1415/341
BOT CHORD 2-13=-310/1164, 12-13=-310/1164, 10-12=-125/813, 9-10=-188/1163, 7-9=-188/1163
WEBS 3-12=-463/227, 4-12=-101/312, 5-10=-98/308, 6-10=-460/227

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone3 11-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 25-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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=264, 7=264.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T04	Common	5	1	T33441127
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:09 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-WfyDUGPZtAHX3Rs6pYhyYLr41sSfLS?X4xxVoQzURXq

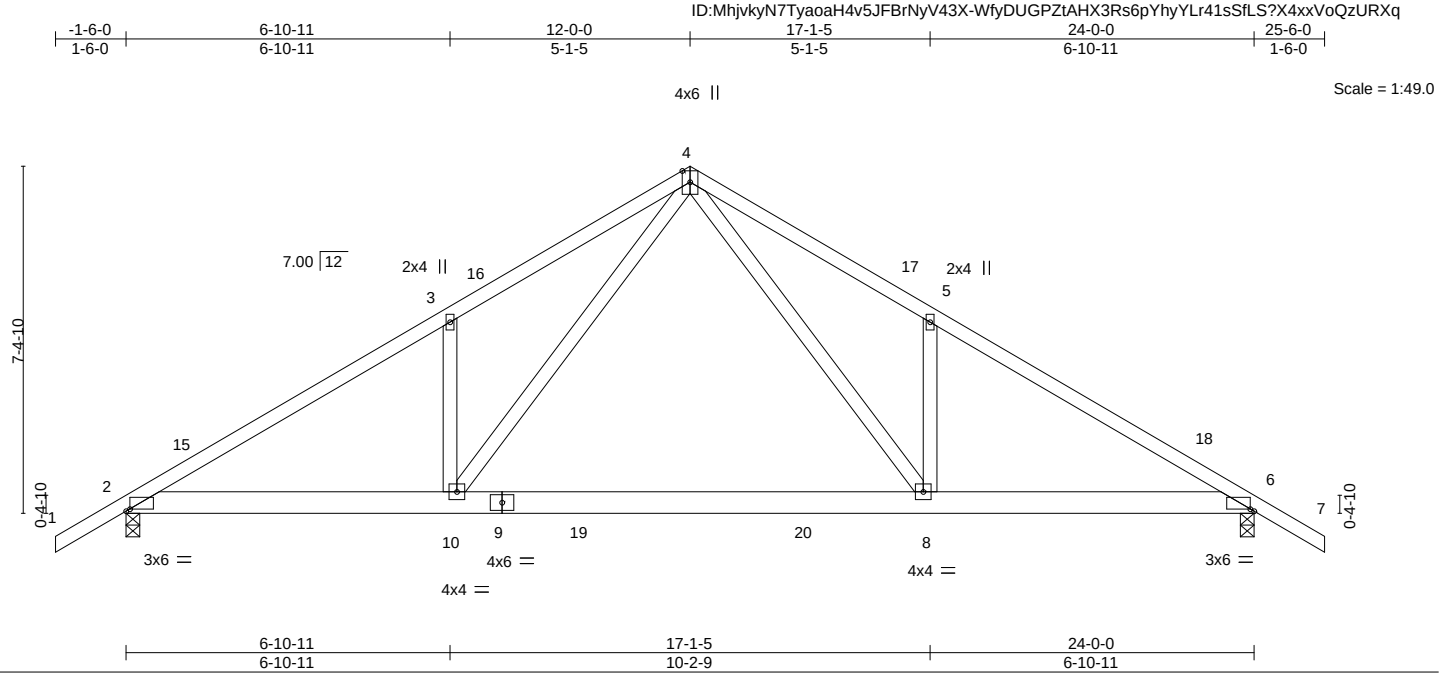


Plate Offsets (X,Y)-- [2:0-1-0,0-0-8], [6:0-1-0,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.20	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.38	8-10	>759	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 139 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=195(LC 11)
Max Uplift 2=-362(LC 12), 6=-362(LC 13)
Max Grav 2=1419(LC 19), 6=1419(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2354/552, 3-4=-2389/707, 4-5=-2389/706, 5-6=-2354/551
BOT CHORD 2-10=-483/2091, 8-10=-224/1269, 6-8=-366/1960
WEBS 4-8=-439/1392, 5-8=-342/265, 4-10=-439/1392, 3-10=-342/265

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=362, 6=362.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-10=-20, 8-10=-80(F=-60), 6-8=-20

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

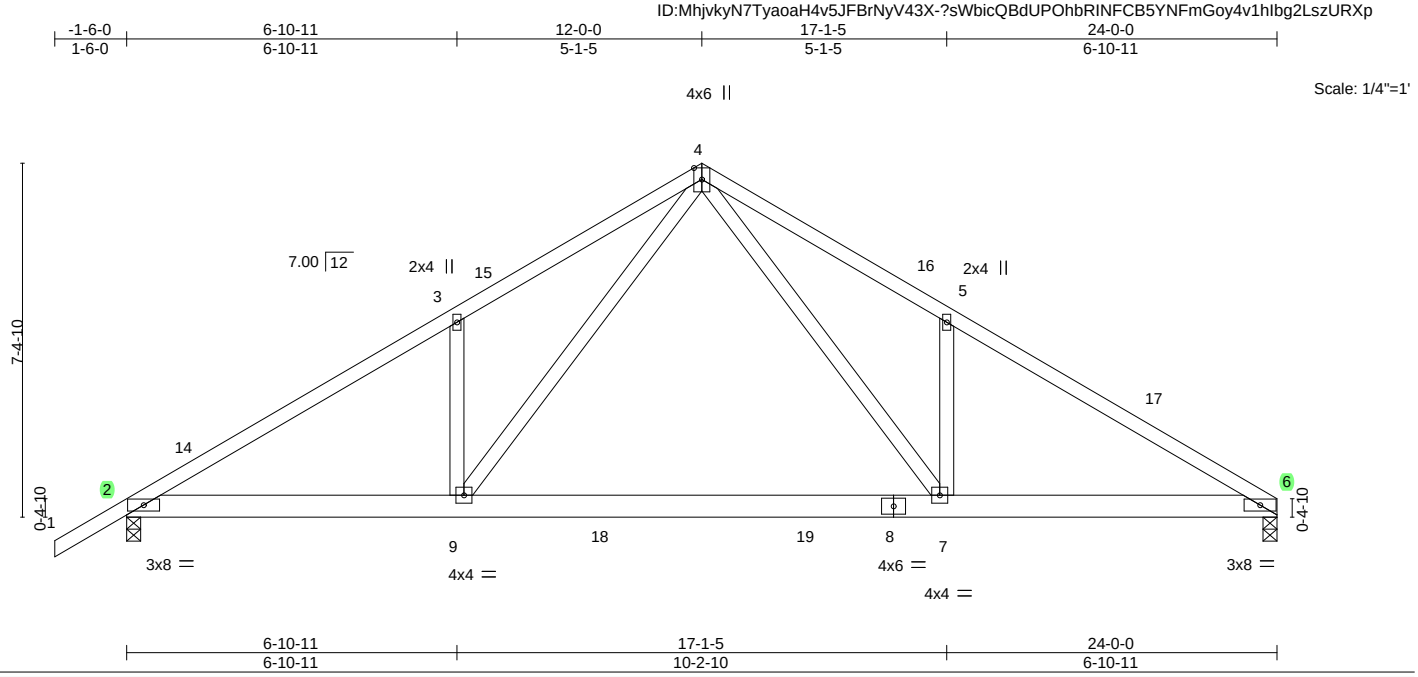
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441128
3926202	T05	Common	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:10 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-?sWbicQBdUPOhbRINFCB5YNFmGoy4v1hIbg2LszURXp



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	0.42	Vert(LL)	-0.20	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.38	7-9	>766	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 136 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=187(LC 9)
Max Uplift 6=-323(LC 13), 2=-362(LC 12)
Max Grav 6=1338(LC 20), 2=1417(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2349/553, 3-4=-2384/708, 4-5=-2397/718, 5-6=-2361/562
BOT CHORD 2-9=-498/2075, 7-9=-239/1256, 6-7=-390/1956
WEBS 4-7=-449/1402, 5-7=-344/266, 4-9=-438/1386, 3-9=-342/265

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=323, 2=362.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-9=-20, 7-9=-80(F=-60), 6-7=-20

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T06	Common	2	1	T33441129
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:10 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-?sWbicQBdUPOhbRINFCB5YNGTGhl4?ahIbg2LszURXp

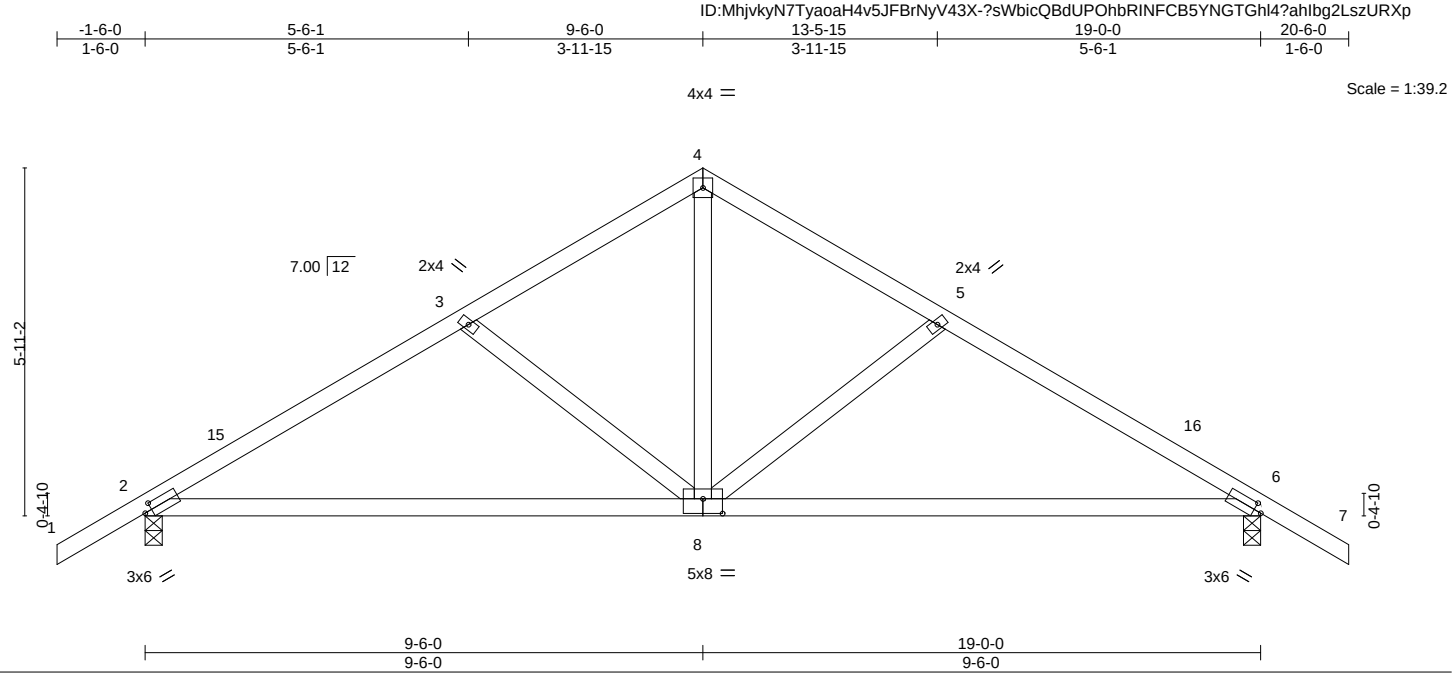


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [6:0-1-8,0-1-8], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.13	8-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.28	8-14	>817	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 89 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-159(LC 10)
Max Uplift 2=-215(LC 12), 6=-215(LC 13)
Max Grav 2=784(LC 1), 6=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1013/258, 3-4=-788/217, 4-5=-788/217, 5-6=-1013/258
BOT CHORD 2-8=-228/850, 6-8=-138/841
WEBS 4-8=-126/556, 5-8=-304/202, 3-8=-303/202

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-6-0, Zone2 9-6-0 to 13-7-7, Zone1 13-7-7 to 20-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=215, 6=215.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

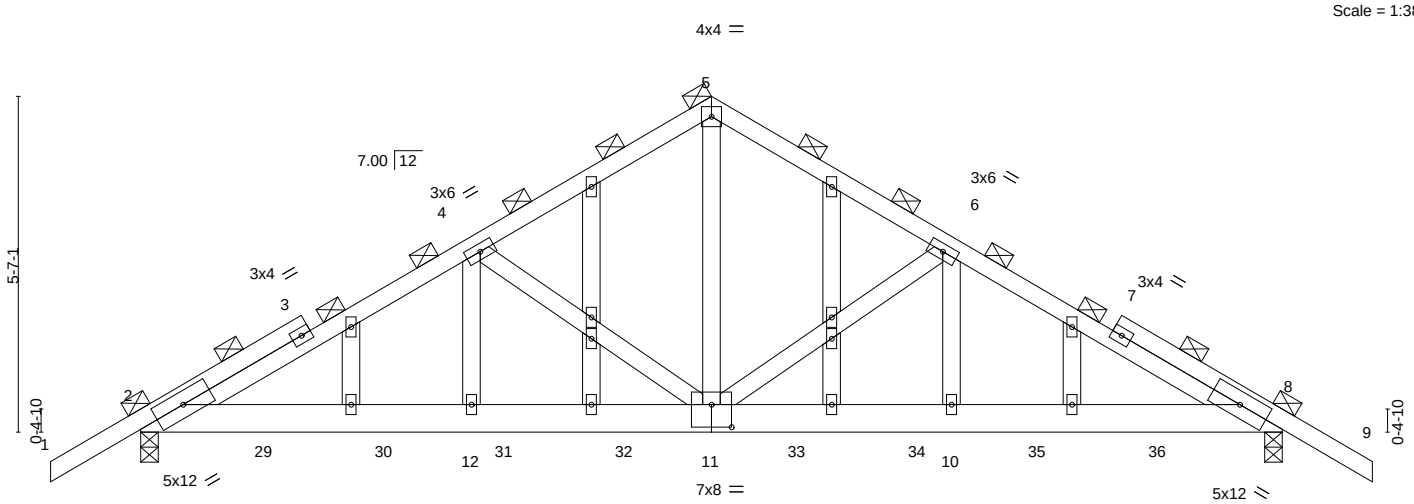
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T06G	GABLE	2	1	T33441130
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:11 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-T23zvyRpOnXFJl0UwzkQdmwQ5g8XpSgqXFQbtIzURXo

-1-6-0 | 5-6-1 | 9-6-0 | 13-5-15 | 19-0-0 | 20-6-0
1-6-0 | 5-6-1 | 3-11-15 | 3-11-15 | 5-6-1 | 1-6-0

Scale = 1:38.3



5-6-1 | 9-6-0 | 13-5-15 | 19-0-0
5-6-1 | 3-11-15 | 3-11-15 | 5-6-1

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.04	12-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.06	11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 132 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (4-11-11 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-150(LC 34)
Max Uplift 2=-364(LC 8), 8=-364(LC 9)
Max Grav 2=829(LC 42), 8=829(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1154/421, 4-5=-793/318, 5-6=-793/318, 6-8=-1154/422
BOT CHORD 2-12=-379/1087, 11-12=-379/1087, 10-11=-287/984, 8-10=-287/984
WEBS 5-11=-234/595, 6-11=-495/268, 4-11=-494/267

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=364, 8=364.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 127 lb down and 149 lb up at 1-6-0, 30 lb down and 14 lb up at 2-0-12, 30 lb down and 14 lb up at 4-0-12, 30 lb down and 14 lb up at 6-0-12, 30 lb down and 14 lb up at 8-0-12, 30 lb down and 14 lb up at 9-6-0, 30 lb down and 14 lb up at 10-11-4, 30 lb down and 14 lb up at 12-11-4, 30 lb down and 14 lb up at 14-11-4, and 30 lb down and 14 lb up at 16-11-4, and 127 lb down and 149 lb up at 17-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) 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

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-9=-54, 23-26=-20
   Concentrated Loads (lb)
   Vert: 25=2(B) 28=2(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T07	Common Girder	2	1	T33441131
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:12 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-xEdL6HSR95f6wvahUgFfAzTa14LKYoA_mv99PlzURXn

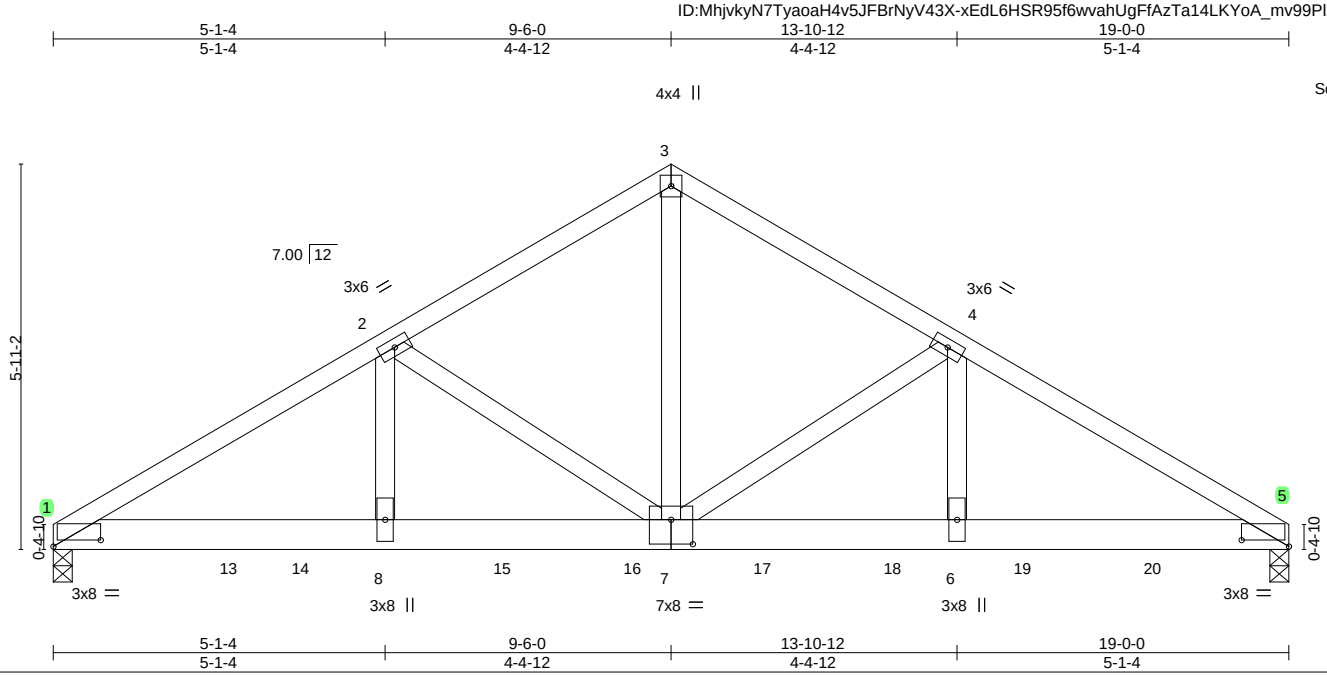


Plate Offsets (X,Y)-- [1:0-8-12,0-1-3], [5:0-8-12,0-1-3], [7:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.09	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.15	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 108 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=-137(LC 27)
Max Grav 1=1987(LC 1), 5=1719(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3040/0, 2-3=-1980/4, 3-4=-1979/5, 4-5=-2855/0
BOT CHORD 1-8=0/2599, 7-8=0/2599, 6-7=0/2436, 5-6=0/2436
WEBS 3-7=0/1714, 4-7=-951/101, 4-6=0/710, 2-7=-1147/64, 2-8=0/906

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 232 lb down at 0-8-12, 230 lb down at 2-8-12, 230 lb down at 3-10-0, 230 lb down at 4-11-4, 230 lb down at 6-11-4, 230 lb down at 8-11-4, 230 lb down at 10-11-4, 230 lb down at 12-11-4, and 230 lb down at 14-11-4, and 230 lb down at 16-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 1-5=-20
Concentrated Loads (lb)
Vert: 8=-230(F) 10=-232(F) 13=-230(F) 14=-230(F) 15=-230(F) 16=-230(F) 17=-230(F) 18=-230(F) 19=-230(F) 20=-230(F)

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

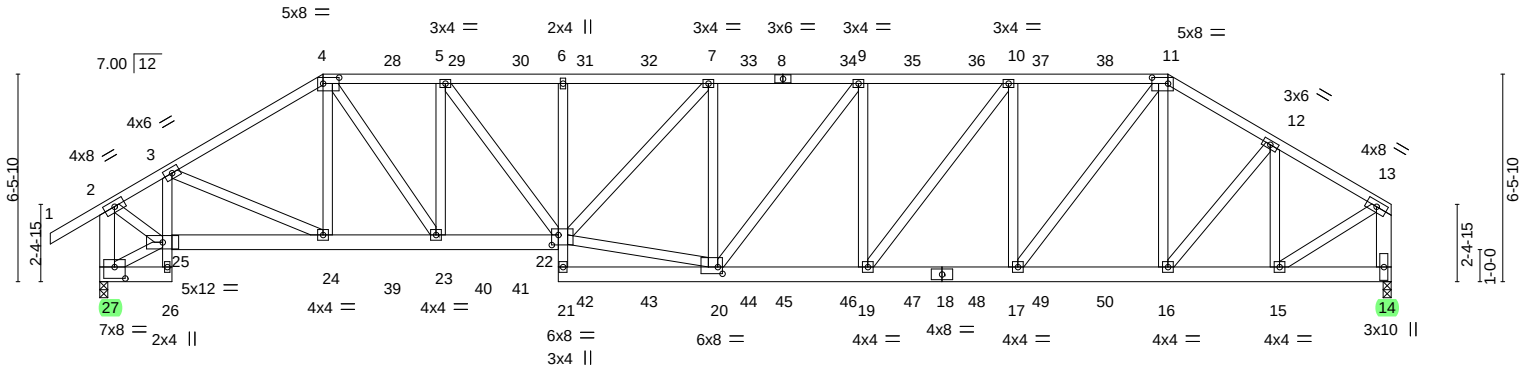
Date:
April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T08	Hip Girder	1	2	T33441132
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:15 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-LpJUlJUKS01gnMJG9ooMnc47EHPtl5QQSsOp04zURXk

-1-6-8	2-3-0	6-11-8	10-7-8	14-3-8	19-1-6	23-9-8	28-5-10	33-3-8	36-7-8	40-3-0
1-6-8	2-3-0	4-8-8	3-8-0	3-8-0	4-9-14	4-8-2	4-8-2	4-9-14	3-4-0	3-7-8

Scale = 1:71.8



2-3-0	6-11-8	10-7-8	14-3-8	19-1-6	23-9-8	28-5-10	33-3-8	36-7-8	40-3-0
2-3-0	4-8-8	3-8-0	3-8-0	4-9-14	4-8-2	4-8-2	4-9-14	3-4-0	3-7-8

Plate Offsets (X,Y)-- [4:0-6-0,0-2-4], [11:0-6-0,0-2-4], [20:0-1-12,0-2-8], [22:0-2-8,0-3-12], [27:0-4-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	0.25	19-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.32	19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.11	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 654 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
3-26,6-21: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-27,13-14: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 14=0-3-0, 27=0-3-0
Max Horz 27=192(LC 5)
Max Uplift 14=-1741(LC 9), 27=-1764(LC 8)
Max Grav 14=2980(LC 1), 27=3024(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2754/1669, 3-4=-4190/2587, 4-5=-4922/3051, 5-6=-5815/3535, 6-7=-5798/3524, 7-9=-5443/3278, 9-10=-5262/3182, 10-11=-4481/2752, 11-12=-3597/2234, 12-13=-2761/1635, 2-27=-2947/1750, 13-14=-2901/1720
BOT CHORD 3-25=-1414/884, 24-25=-1580/2499, 23-24=-2278/3572, 22-23=-3073/4922, 21-22=-160/281, 6-22=-268/161, 20-21=-376/622, 19-20=-3170/5262, 17-19=-2687/4481, 16-17=-1833/3056, 15-16=-1396/2342
WEBS 3-24=-961/1336, 4-23=-1430/2381, 5-23=-1455/867, 5-22=-892/1511, 20-22=-3001/4937, 7-22=-365/552, 7-20=-711/466, 9-20=-248/365, 9-19=-555/355, 10-19=-793/1306, 10-17=-1359/820, 11-17=-1377/2324, 11-16=-288/128, 12-16=-818/1175, 12-15=-1463/928, 2-25=-1622/2724, 13-15=-1588/2692

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 51 lb up at 6-11-8, 76 lb down and 48 lb up at 9-0-4, 76 lb down and 48 lb up at 11-0-4, 76 lb down and 48 lb up at 13-0-4, 77 lb down and 49 lb up at 15-0-4, 76 lb down and 46 lb up at 17-0-4, 76 lb down and 46 lb up at 19-0-4, 76 lb down and 44 lb up at 20-1-8, 76 lb down and 46 lb up at 21-2-12, 76 lb down and 46 lb up at 23-2-12, 76 lb down and 46 lb up at 25-2-12, 76 lb down and 46 lb up at 27-2-12, 76 lb down and 46 lb up at 29-2-12, and 76 lb down and 46 lb up at 31-2-12, and 76 lb down and 49 lb up at 33-3-8 on top chord, and 461 lb down and 422 lb up at 6-11-8, 157 lb down and 130 lb up at 9-0-4, 157 lb down and 130 lb up at 11-0-4, 157 lb down and 130 lb up at 13-0-4, 156 lb down and 130 lb up at 15-0-4, 162 lb down and 135 lb up at 17-0-4, 162 lb down and 135 lb up at 19-0-4, 162 lb down and 135 lb up at 20-1-8, 162 lb down and 135 lb up at 21-2-12, 162 lb down and 135 lb up at 23-2-12, 162 lb down and 135 lb up at 25-2-12, 162 lb down and 135 lb up at 27-2-12, 162 lb down and 135 lb up at 29-2-12, and 162 lb down and 135 lb up at 31-2-12, and 432 lb down and 448 lb up at 33-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

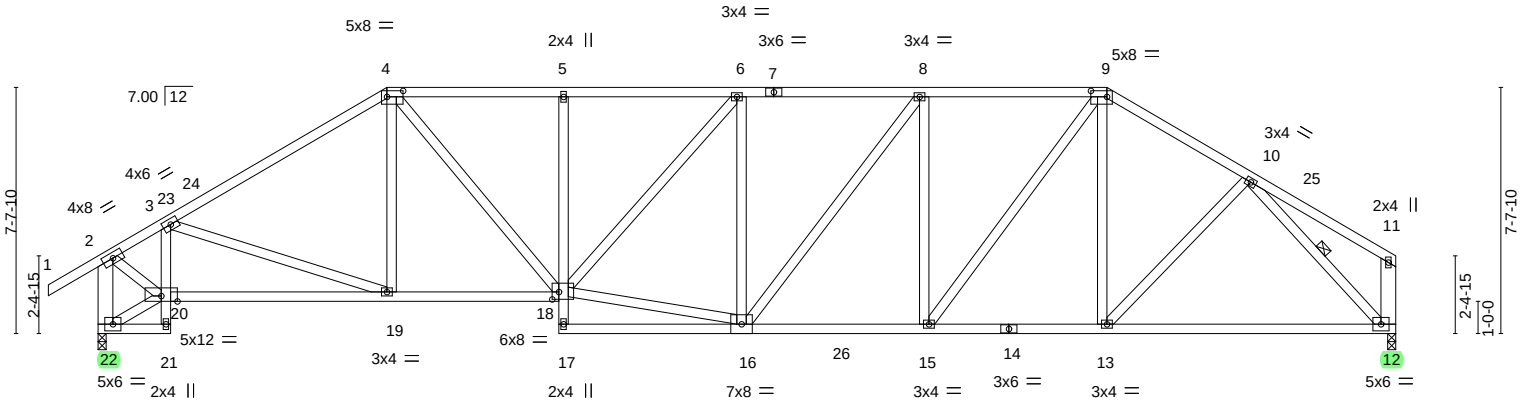
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-4=-54, 4-11=-54, 11-13=-54, 26-27=-20, 22-25=-20, 14-21=-20
   Concentrated Loads (lb)
   Vert: 4=-22(F) 8=-20(F) 11=-20(F) 24=-327(F) 20=-156(F) 7=-20(F) 16=-374(F) 28=-22(F) 29=-22(F) 30=-22(F) 31=-23(F) 32=-20(F) 33=-20(F) 34=-20(F) 35=-20(F) 36=-20(F) 37=-20(F) 38=-20(F) 39=-138(F) 40=-138(F) 41=-138(F) 42=-137(F) 43=-156(F) 44=-156(F) 45=-156(F) 46=-156(F) 47=-156(F) 48=-156(F) 49=-156(F) 50=-156(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T09	Hip	1	1	T33441133
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:16 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-p?tsyfVyDK9XPWuSjWJbKpdE7hl9UagZhW7MYWzURXj

-1-6-8	2-3-0	8-11-8	14-3-8	19-11-8	25-7-8	31-3-8	35-7-8	40-3-0
1-6-8	2-3-0	6-8-8	5-4-0	5-8-0	5-8-0	5-8-0	4-4-0	4-7-8

Scale = 1:71.5



2-3-0	8-11-8	14-3-8	19-11-8	25-7-8	31-3-8	40-3-0
2-3-0	6-8-8	5-4-0	5-8-0	5-8-0	5-8-0	8-11-8

Plate Offsets (X,Y)-- [4:0-6-0,0-2-4], [9:0-6-0,0-2-4], [18:0-2-8,0-2-12]

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	0.62	Vert(LL)	-0.17	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.35	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.13	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 284 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-21,5-17: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-22,11-12: 2x6 SP No.2

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

REACTIONS. (size) 12=0-3-0, 22=0-3-0
Max Horz 22=224(LC 11)
Max Uplift 12=-392(LC 13), 22=-432(LC 12)
Max Grav 12=1626(LC 2), 22=1679(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1433/390, 3-4=-2117/535, 4-5=-2333/618, 5-6=-2323/617, 6-8=-2225/542, 8-9=-2077/563, 9-10=-1863/495, 2-22=-1625/436
BOT CHORD 3-20=-722/255, 19-20=-515/1368, 18-19=-515/1757, 5-18=-318/186, 15-16=-516/2077, 13-15=-313/1563, 12-13=-329/1298
WEBS 3-19=-284/536, 4-18=-350/929, 16-18=-574/2133, 6-16=-438/240, 8-16=-140/292, 8-15=-565/288, 9-15=-331/881, 10-13=-156/442, 2-20=-414/1508, 10-12=-1805/458

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 2-5-13, Zone1 2-5-13 to 8-11-8, Zone2 8-11-8 to 14-5-4, Zone1 14-5-4 to 31-3-8, Zone2 31-3-8 to 36-11-13, Zone1 36-11-13 to 40-0-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=392, 22=432.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

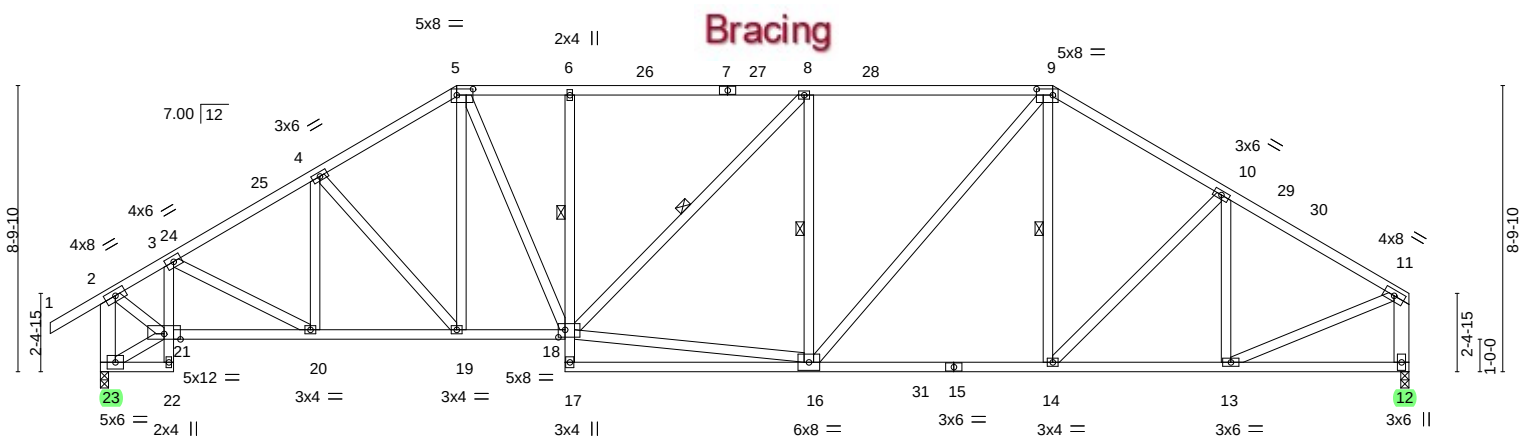
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T10	Hip	1	1	T33441134
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:16 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-p?tsyfVyDK9XPWuSjWJbKpdE?hluUcsZhW7MYWzURXj

-1-6-8 2-3-0 6-7-4 10-11-8 14-3-8 21-9-8 29-3-8 34-7-8 40-3-0
1-6-8 2-3-0 4-4-4 4-4-4 3-4-0 7-6-0 7-6-0 5-4-0 5-7-8

Scale = 1:70.9



2-3-0 6-7-4 10-11-8 14-3-8 21-9-8 29-3-8 34-7-8 40-3-0
2-3-0 4-4-4 4-4-4 3-4-0 7-6-0 7-6-0 5-4-0 5-7-8

Plate Offsets (X,Y)-- [5:0-6-0,0-2-4], [9:0-6-0,0-2-4], [18:0-2-8,0-2-12]

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	0.62	Vert(LL)	-0.17	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.29	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 298 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-22,6-17: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-23,11-12: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-5-9 oc bracing: 20-21
8-4-12 oc bracing: 19-20
8-8-15 oc bracing: 18-19.
1 Row at midpt 6-18
WEBS 1 Row at midpt 8-18, 8-16, 9-14

REACTIONS. (size) 12=0-3-0, 23=0-3-0
Max Horz 23=253(LC 9)
Max Uplift 12=-387(LC 13), 23=-430(LC 12)
Max Grav 12=1611(LC 2), 23=1671(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1411/385, 3-4=-2062/540, 4-5=-1992/556, 5-6=-1952/563, 6-8=-1949/565, 8-9=-1918/517, 9-10=-1829/501, 10-11=-1718/423, 2-23=-1617/461, 11-12=-1518/400
BOT CHORD 3-21=-701/193, 20-21=-492/1335, 19-20=-500/1741, 18-19=-458/1675, 6-18=-314/181, 14-16=-277/1527, 13-14=-330/1436
WEBS 3-20=-176/578, 5-19=-87/341, 5-18=-288/711, 16-18=-449/1764, 8-16=-532/317, 9-16=-274/658, 9-14=-27/292, 10-13=-417/157, 2-21=-368/1433, 11-13=-317/1494

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 2-5-13, Zone1 2-5-13 to 10-11-8, Zone2 10-11-8 to 16-7-13, Zone1 16-7-13 to 29-3-8, Zone2 29-3-8 to 34-11-13, Zone1 34-11-13 to 40-0-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=387, 23=430.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441135
3926202	T11	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:17 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-HCREA?Va_dHO1gTeHDrqt1ARM57uD4NjvAtw4yzURXi

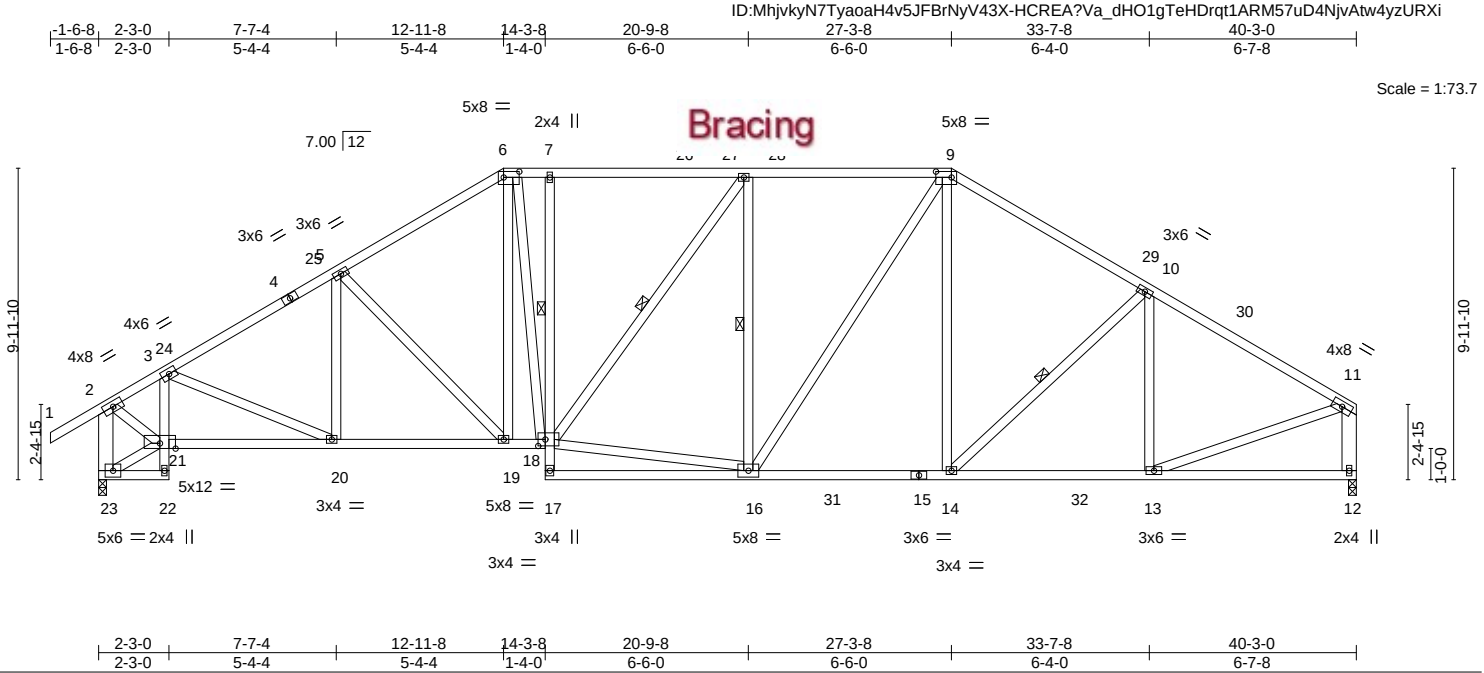


Plate Offsets (X,Y)-- [6:0-6-0,0-2-4], [9:0-6-0,0-2-4], [18:0-2-12,0-2-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.13	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.23	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 314 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 3-22,7-17: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 2-23,11-12: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 7-18
WEBS	1 Row at midpt 8-18, 8-16, 10-14

REACTIONS. (size) 12=0-3-0, 23=0-3-0
Max Horz 23=282(LC 9)
Max Uplift 12=-383(LC 13), 23=-425(LC 12)
Max Grav 12=1634(LC 2), 23=1679(LC 2)

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

TOP CHORD	2-3=-1451/391, 3-5=-2109/541, 5-6=-1938/538, 6-7=-1693/522, 7-8=-1693/523, 8-9=-1701/478, 9-10=-1805/494, 10-11=-1839/439, 2-23=-1654/462, 11-12=-1532/398
BOT CHORD	3-21=-699/200, 20-21=-494/1433, 19-20=-457/1802, 18-19=-390/1620, 7-18=-253/157, 14-16=-229/1494, 13-14=-332/1534
WEBS	3-20=-170/563, 5-19=-360/194, 6-19=-121/475, 6-18=-271/516, 16-18=-346/1540, 8-16=-456/288, 9-16=-231/474, 9-14=-68/406, 10-13=-323/144, 2-21=-385/1458, 11-13=-305/1552, 21-23=-271/256

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 2-5-13, Zone1 2-5-13 to 12-11-8, Zone2 12-11-8 to 18-7-13, Zone1 18-7-13 to 27-3-8, Zone2 27-3-8 to 32-11-13, Zone1 32-11-13 to 40-0-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=383, 23=425.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441136
3926202	T12	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:18 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-mO_cNLWCIxPFeq2rrxM3PEiYqVRyyXKs8qcTdOzURXh

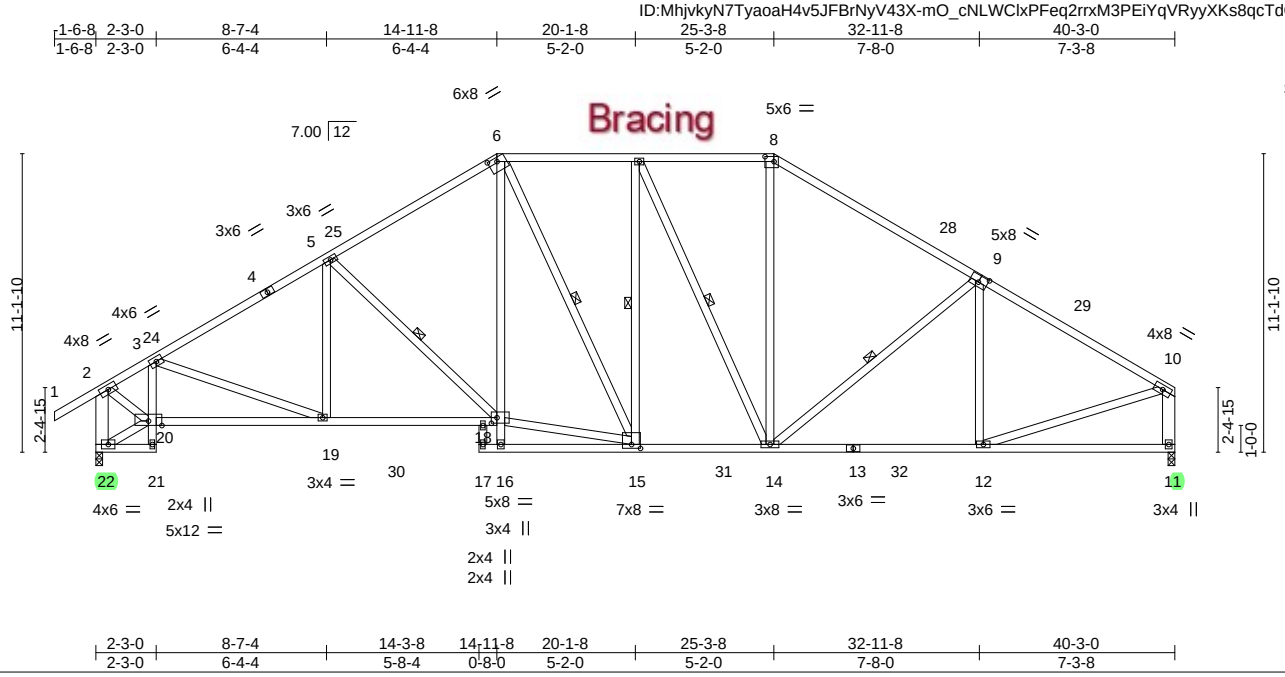


Plate Offsets (X,Y)-- [6:0-4-0,0-1-11], [8:0-4-0,0-2-4], [9:0-4-0,0-3-0], [15:0-4-0,0-1-12], [18:0-2-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.15	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.28	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 305 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 3-21,6-16: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 2-22,10-11: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 16-18
WEBS	1 Row at midpt 5-18, 7-15, 7-14, 9-14, 6-15

REACTIONS. (size) 11=0-3-0, 22=0-3-0
Max Horz 22=311(LC 11)
Max Uplift 11=-327(LC 13), 22=-369(LC 12)
Max Grav 11=1652(LC 2), 22=1730(LC 2)

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

TOP CHORD	2-3=-1554/348, 3-5=-2213/455, 5-6=-1913/427, 6-7=-1549/404, 7-8=-1456/404, 8-9=-1774/398, 9-10=-1917/380, 2-22=-1757/411, 10-11=-1546/344
BOT CHORD	3-20=-728/190, 19-20=-493/1565, 18-19=-398/1952, 6-18=-172/877, 14-15=-266/1549, 12-14=-276/1597
WEBS	3-19=-161/608, 5-18=-511/253, 15-18=-298/1560, 7-14=-342/207, 8-14=-88/586, 9-14=-334/227, 9-12=-267/123, 2-20=-356/1579, 10-12=-243/1599, 20-22=-296/286, 6-15=-258/100

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 2-5-13, Zone1 2-5-13 to 14-11-8, Zone2 14-11-8 to 20-7-13, Zone1 20-7-13 to 25-3-8, Zone2 25-3-8 to 30-11-13, Zone1 30-11-13 to 40-0-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=327, 22=369.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441137
3926202	T13	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:19 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-EaY?ahXqWFX6Gzd1OetIySFjrum9h_V0NUM19rzURXg

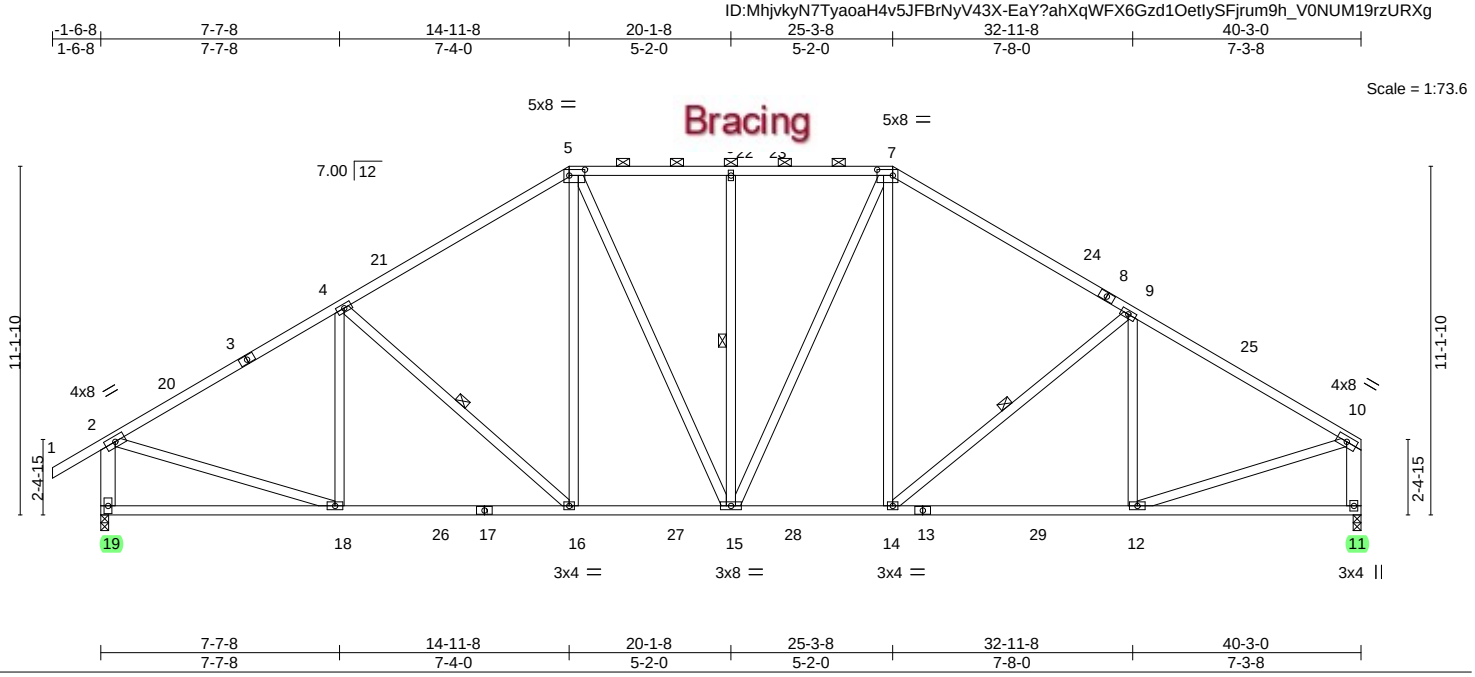


Plate Offsets (X,Y)-- [5:0-6-0,0-2-4], [7:0-6-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.15	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.27	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 289 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-19,10-11: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-15 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-10-12 oc bracing: 16-18.
WEBS 1 Row at midpt 4-16, 6-15, 9-14

REACTIONS. (size) 19=0-3-0, 11=0-3-0
Max Horz 19=-281(LC 10)
Max Uplift 19=-419(LC 12), 11=-377(LC 13)
Max Grav 19=1745(LC 2), 11=1665(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1941/450, 4-5=-1785/476, 5-6=-1563/453, 6-7=-1563/453, 7-9=-1793/476, 9-10=-1933/449, 2-19=-1630/438, 10-11=-1558/394
BOT CHORD 18-19=-273/313, 16-18=-439/1693, 15-16=-283/1467, 14-15=-199/1470, 12-14=-306/1611
WEBS 4-16=-332/209, 5-16=-100/491, 5-15=-205/339, 6-15=-301/183, 7-15=-208/334, 7-14=-94/487, 9-14=-326/212, 9-12=-265/137, 2-18=-241/1580, 10-12=-288/1613

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 2-5-13, Zone1 2-5-13 to 14-11-8, Zone2 14-11-8 to 20-7-13, Zone1 20-7-13 to 25-3-8, Zone2 25-3-8 to 30-11-13, Zone1 30-11-13 to 40-0-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=419, 11=377.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

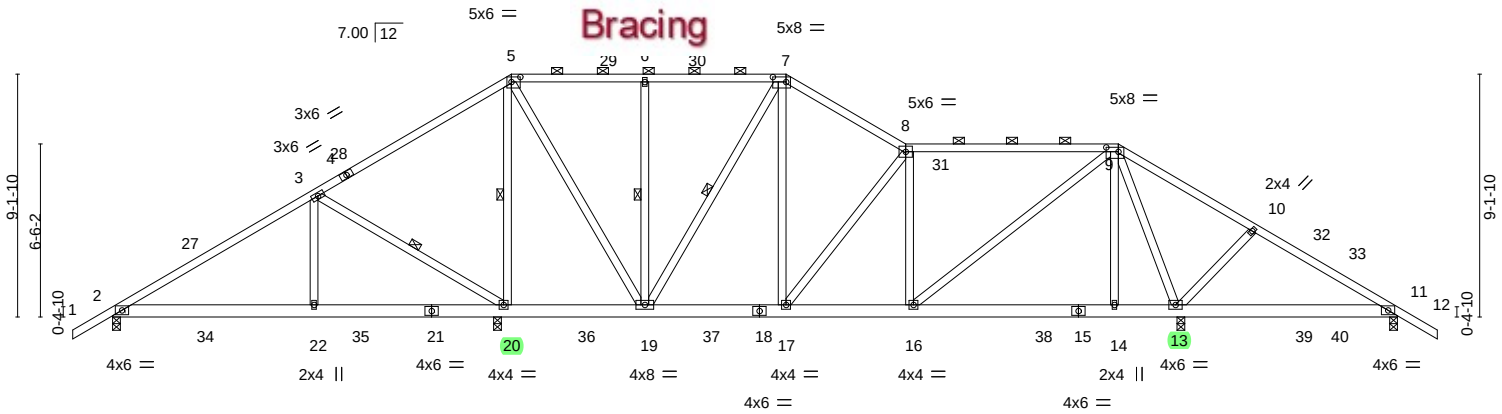
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441138
3926202	T14	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:19 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-EaY?ahXqWFX6Gzd1OetlySFg7ut0hvT0NUM19rzURXg

1-6-0	7-6-15	15-0-0	20-0-4	25-4-0	29-10-0	37-10-0	42-10-8	48-4-0	49-10-0
1-6-0	7-6-15	7-5-1	5-0-4	5-3-12	4-6-0	8-0-0	5-0-8	5-5-8	1-6-0

Scale = 1:86.7



7-6-15	14-4-0	15-0-0	20-0-4	25-4-0	29-10-0	37-10-0	40-2-4	48-4-0
7-6-15	6-9-1	0-8-0	5-0-4	5-3-12	4-6-0	8-0-0	2-4-4	8-1-12

Plate Offsets (X,Y)-- [5:0-4-0,0-2-4], [7:0-6-0,0-2-4], [9:0-5-8,0-2-0]

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	0.95	Vert(LL)	-0.05	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.09	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 339 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 5-7, 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20,11-13.
WEBS 1 Row at midpt 3-20, 5-20, 6-19, 7-19

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-238(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 2=-139(LC 12), 20=-500(LC 9), 13=-406(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=496(LC 25), 20=1895(LC 2), 13=1551(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-447/202, 3-5=-129/447, 5-6=-252/170, 6-7=-252/170, 7-8=-624/237, 8-9=-727/263, 9-10=-47/419, 10-11=-79/254
BOT CHORD 2-22=-206/357, 20-22=-206/357, 19-20=-311/288, 17-19=-63/497, 16-17=-95/733
WEBS 3-22=-163/337, 3-20=-667/410, 5-20=-1291/320, 5-19=-207/990, 6-19=-319/188, 7-19=-501/142, 7-17=-142/505, 8-17=-405/210, 8-16=-323/146, 9-16=-169/815, 9-13=-1176/287, 10-13=-292/199

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-4-0, Zone1 3-4-0 to 15-0-0, Zone2 15-0-0 to 21-10-0, Zone1 21-10-0 to 25-4-0, Zone3 25-4-0 to 29-10-0, Zone1 29-10-0 to 37-10-0, Zone2 37-10-0 to 44-8-0, Zone1 44-8-0 to 49-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=139, 20=500, 13=406.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

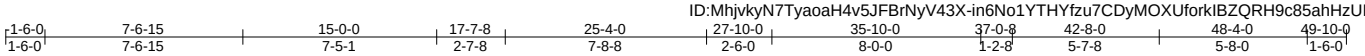
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

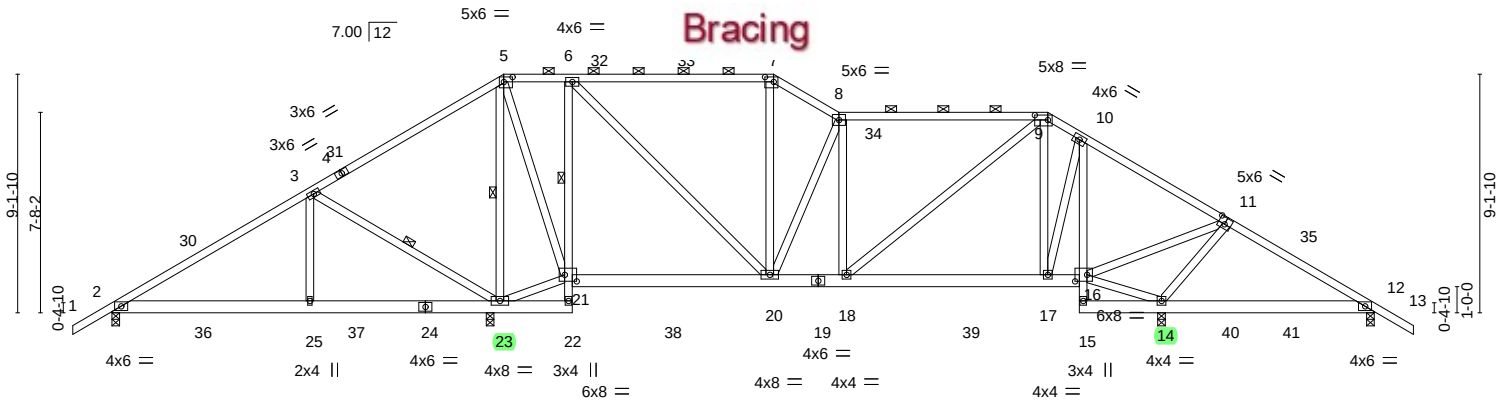
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441139
3926202	T15	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:20 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-in6No1YTHYfzu7CDyMOXUforkIBZQRH9c85ahHzURXf



Scale = 1:88.2



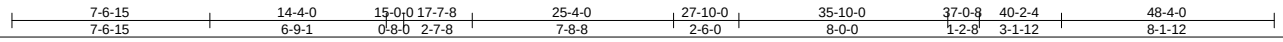


Plate Offsets (X,Y)-- [5:0-4-0,0-2-4], [7:0-4-0,0-2-4], [9:0-6-0,0-2-4], [11:0-3-0,0-3-0], [16:0-5-8,0-3-0], [21:0-5-8,0-3-0]

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	0.90	Vert(LL)	-0.07	20-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.11	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 359 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
6-22,10-15: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 5-7, 8-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 18-20,17-18,16-17.
1 Row at midpt 6-21
WEBS 1 Row at midpt 3-23, 5-23

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-238(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-135(LC 12), 12=-108(LC 13), 23=-560(LC 9), 14=-370(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=445(LC 25), 12=258(LC 26), 23=2038(LC 2), 14=1422(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-343/190, 3-5=-166/598, 6-7=-511/230, 7-8=-622/248, 8-9=-699/266, 9-10=-449/225, 10-11=-359/149
BOT CHORD 6-21=-898/309, 20-21=-194/277, 18-20=-126/700, 17-18=-66/396, 16-17=-31/266, 10-16=-723/167
WEBS 3-25=-161/334, 3-23=-665/407, 5-23=-1292/323, 21-23=-408/332, 5-21=-218/945, 6-20=-197/856, 8-20=-493/246, 9-18=-91/393, 9-17=-343/221, 10-17=-164/566, 14-16=-696/274, 11-16=-188/1033, 11-14=-1054/361

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-4-0, Zone1 3-4-0 to 15-0-0, Zone2 15-0-0 to 21-10-0, Zone1 21-10-0 to 25-4-0, Zone3 25-4-0 to 27-10-0, Zone1 27-10-0 to 35-10-0, Zone2 35-10-0 to 42-8-1, Zone1 42-8-1 to 49-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 2, 108 lb uplift at joint 12, 560 lb uplift at joint 23 and 370 lb uplift at joint 14.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

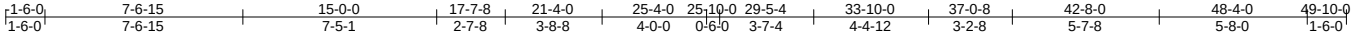
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

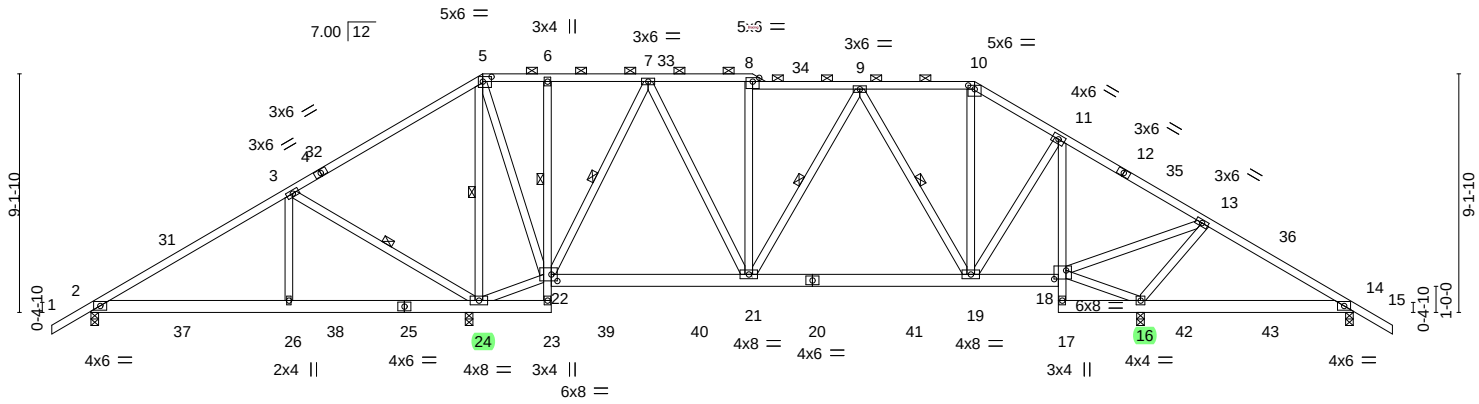
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441140
3926202	T16	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:21 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-Azgl?MZ52snqVHnPW3vm1tK4PiYR9uZJqor7DjzURXe



Scale = 1:88.2



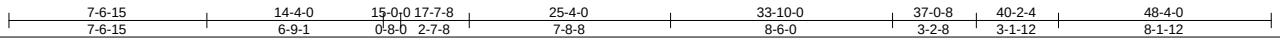


Plate Offsets (X,Y)-- [5:0-4-0,0-2-4], [10:0-3-0,0-1-12], [18:0-5-8,0-4-0], [22:0-2-12,0-3-0]

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	0.65	Vert(LL)	-0.06	19-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.11	19-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 364 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
6-23,11-17: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 21-22,19-21,18-19.
1 Row at midpt 6-22
WEBS 1 Row at midpt 3-24, 5-24, 9-19, 7-22, 9-21

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-243(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-137(LC 12), 14=-121(LC 13), 24=-589(LC 9), 16=-342(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 2=428(LC 25), 14=258(LC 20), 24=1992(LC 2), 16=1447(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-310/195, 3-5=-153/551, 7-8=-587/234, 8-9=-595/231, 9-10=-480/194, 10-11=-599/197, 11-13=-375/118
BOT CHORD 2-26=-171/288, 24-26=-171/288, 21-22=-97/368, 19-21=-145/627, 18-19=-4/300, 11-18=-669/174
WEBS 3-26=-161/334, 3-24=-665/406, 5-24=-1285/358, 22-24=-341/288, 5-22=-211/897, 7-21=-101/626, 9-19=-266/155, 11-19=-124/419, 16-18=-767/219, 13-18=-149/1046, 13-16=-1040/278, 7-22=-828/233

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-4-0, Zone1 3-4-0 to 15-0-0, Zone2 15-0-0 to 21-10-0, Zone1 21-10-0 to 33-10-0, Zone2 33-10-0 to 40-8-0, Zone1 40-8-0 to 49-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2, 121 lb uplift at joint 14, 589 lb uplift at joint 24 and 342 lb uplift at joint 16.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

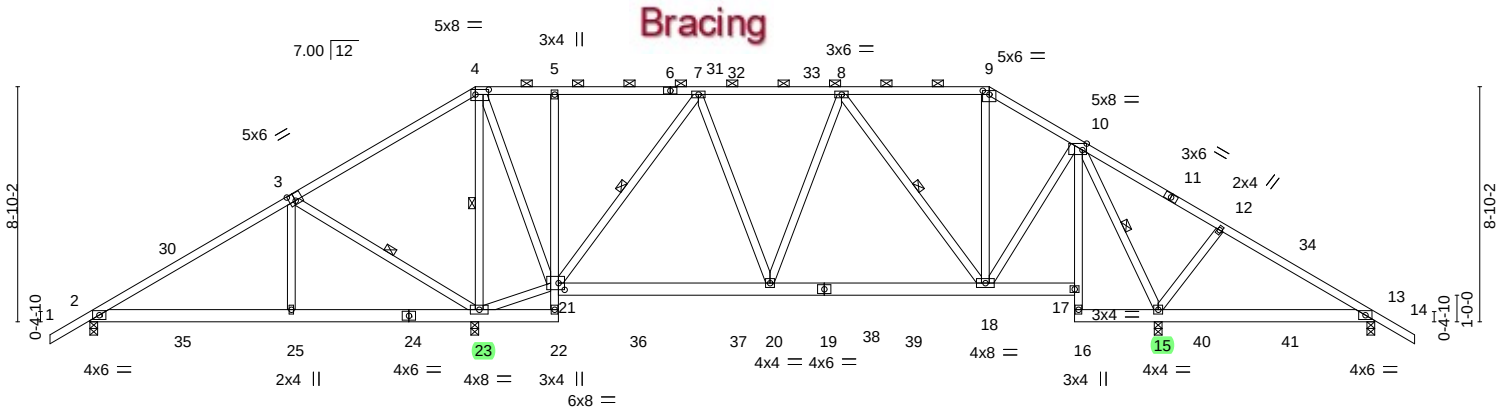
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441141
3926202	T17	Piggyback Base	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:22 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-e9E7DiZjpAvh7RLc4nQ?a4tF76ucuMES3SahmAzURXd

1-6-0 | 7-6-15 | 14-6-0 | 17-7-8 | 22-10-11 | 28-3-4 | 33-10-0 | 37-0-8 | 42-6-0 | 48-4-0 | 49-10-0
1-6-0 | 7-6-15 | 6-11-1 | 3-1-8 | 5-3-3 | 5-4-9 | 5-6-11 | 3-2-8 | 5-5-8 | 5-10-0 | 1-6-0

Scale = 1:86.7



7-6-15 | 14-5-12 | 14-6-0 | 17-7-8 | 25-7-0 | 33-10-0 | 37-0-8 | 40-2-4 | 48-4-0
7-6-15 | 6-10-13 | 0-0-4 | 3-1-8 | 7-11-8 | 8-2-15 | 3-2-8 | 3-1-12 | 8-1-12

Plate Offsets (X,Y)-- [3:0-2-12,0-3-4], [4:0-6-0,0-2-4], [9:0-3-0,0-1-12], [10:0-1-15,Edge], [21:0-2-12,0-3-0]

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	0.58	Vert(LL)	-0.06	20-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.10	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	15	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 348 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
5-22,10-16: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-23, 4-23, 7-21, 8-18, 10-15

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-231(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-138(LC 12), 13=-122(LC 13), 23=-591(LC 9), 15=-377(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 13 except 2=427(LC 25), 23=1945(LC 2), 15=1588(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-303/213, 3-4=-154/524, 7-8=-603/278, 8-9=-418/277, 9-10=-524/290, 10-12=-65/500, 12-13=-91/371
BOT CHORD 2-25=-167/273, 23-25=-165/269, 20-21=-137/462, 18-20=-159/604, 13-15=-266/73
WEBS 3-25=-163/333, 3-23=-641/387, 4-23=-1257/365, 21-23=-350/279, 4-21=-233/919, 7-21=-806/221, 7-20=-71/439, 8-18=-317/151, 10-18=-139/553, 10-15=-1195/237, 12-15=-296/209

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-4-0, Zone1 3-4-0 to 14-6-0, Zone2 14-6-0 to 21-4-0, Zone1 21-4-0 to 33-10-0, Zone2 33-10-0 to 40-8-0, Zone1 40-8-0 to 49-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2, 122 lb uplift at joint 13, 591 lb uplift at joint 23 and 377 lb uplift at joint 15.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

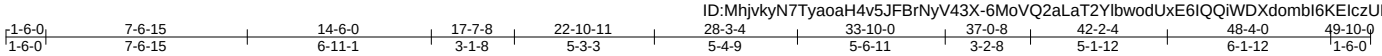
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

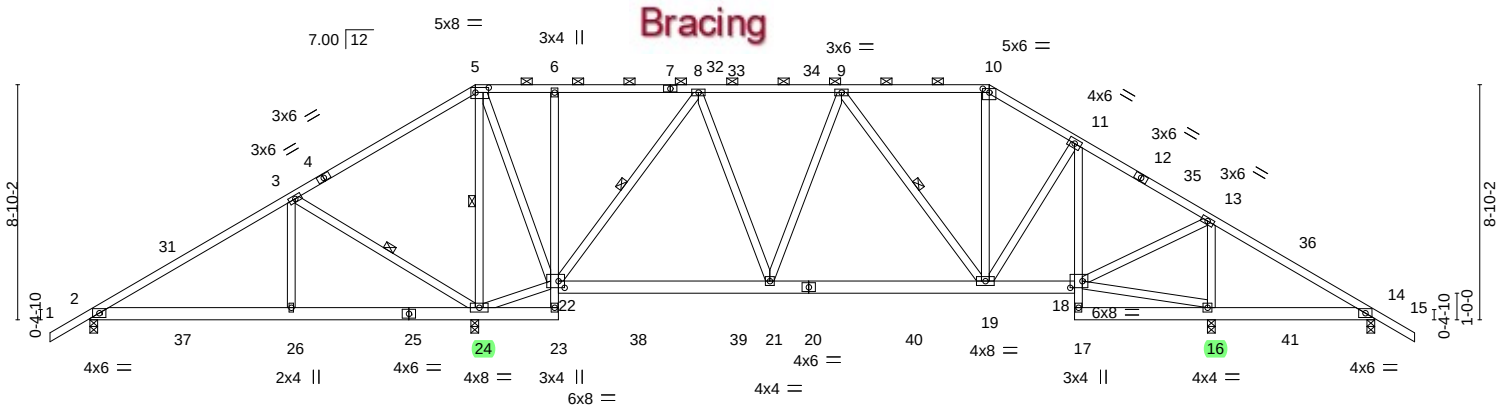
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T18	Piggyback Base	2	1	T33441142
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:23 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-6MoVQ2aLaT2YlbwodUxE6IQQiWDXdombI6KEIczURXc



Scale = 1:86.7



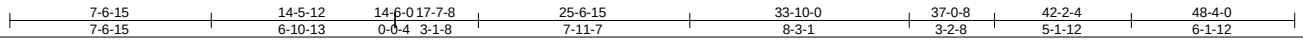


Plate Offsets (X,Y)-- [5:0-6-0,0-2-4], [10:0-3-0,0-1-12], [18:0-5-8,0-3-0], [22:0-2-12,0-3-0]

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	0.59	Vert(LL)	-0.06	21-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.11	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 352 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
6-23,11-17: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-24, 5-24, 8-22, 9-19

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-231(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14 except 2=-128(LC 12), 24=-601(LC 9), 16=-406(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14 except 2=412(LC 25), 24=2080(LC 2), 16=1527(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-275/187, 3-5=-159/548, 8-9=-733/282, 9-10=-670/308, 10-11=-811/324, 11-13=-708/255, 13-14=-77/412
BOT CHORD 2-26=-164/250, 24-26=-164/250, 21-22=-141/551, 19-21=-168/774, 18-19=-25/557, 11-18=-409/116, 14-16=-298/145
WEBS 3-26=-161/331, 3-24=-645/390, 5-24=-1376/375, 22-24=-385/306, 5-22=-246/1025, 8-22=-949/247, 8-21=-96/561, 11-19=-114/252, 16-18=-308/131, 13-18=-142/953, 13-16=-1178/380

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-4-0, Zone1 3-4-0 to 14-6-0, Zone2 14-6-0 to 21-4-0, Zone1 21-4-0 to 33-10-0, Zone2 33-10-0 to 40-8-0, Zone1 40-8-0 to 49-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=128, 24=601, 16=406.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

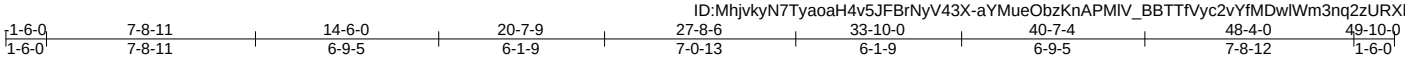
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T19	Piggyback Base	1	1	T33441143
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:24 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-aYMueObzKnAPMlV_BBTTfVyc2vYfMDwlWm3nq2zURXb



Scale = 1:85.2

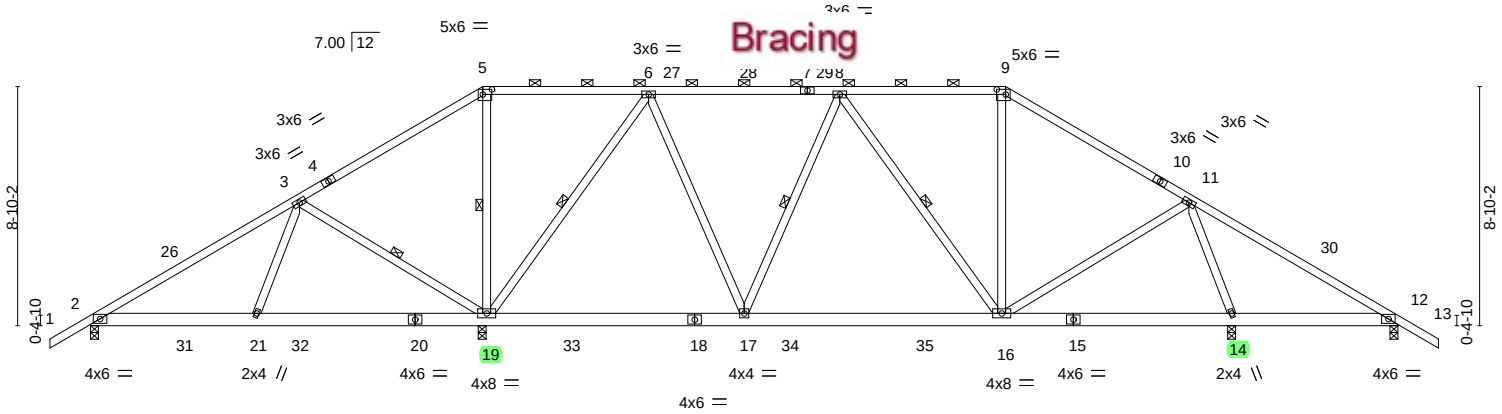


Plate Offsets (X,Y)-- [5:0-4-0,0-2-4], [9:0-4-0,0-2-4], [10:0-0-0,0-0-0], [12:0-0-0,0-0-0]

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	0.56	Vert(LL)	-0.08	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.13	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 314 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-14 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-19, 5-19, 6-19, 8-17, 8-16

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=231(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 2=-129(LC 12), 19=-605(LC 9), 14=-381(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12 except 2=422(LC 25), 19=2115(LC 2), 14=1419(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-342/214, 3-5=-161/507, 5-6=-89/401, 6-8=-643/274, 8-9=-678/327, 9-11=-869/315, 11-12=-50/264
BOT CHORD 2-21=-191/306, 17-19=-102/370, 16-17=-163/736, 14-16=-0/267
WEBS 3-21=-189/344, 3-19=-585/360, 5-19=-502/203, 6-19=-1209/350, 6-17=-126/737, 8-17=-337/186, 11-16=-120/504, 11-14=-1171/406

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-4-0, Zone1 3-4-0 to 14-6-0, Zone2 14-6-0 to 21-4-0, Zone1 21-4-0 to 33-10-0, Zone2 33-10-0 to 40-7-4, Zone1 40-7-4 to 49-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=129, 19=605, 14=381.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

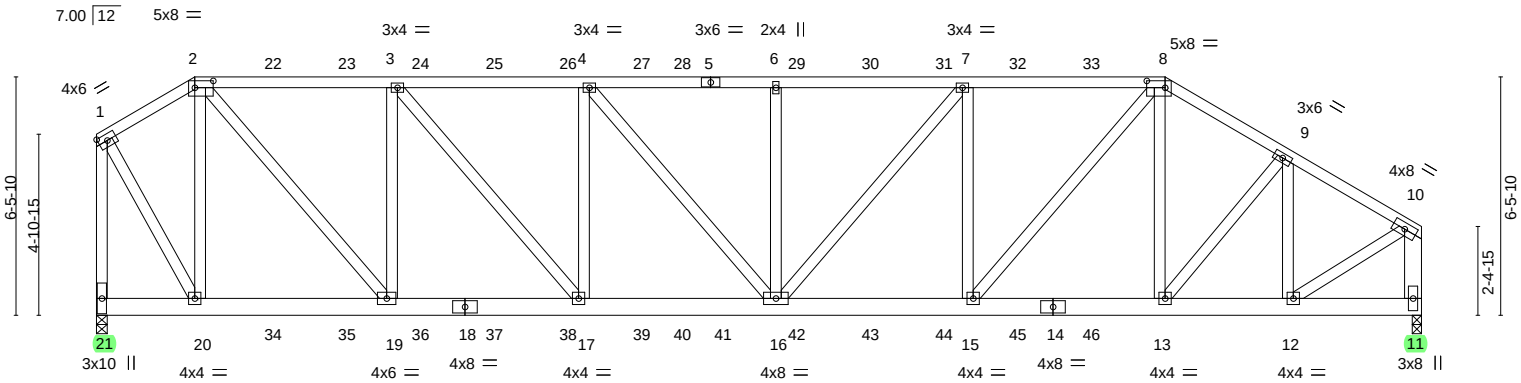
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T20	Hip Girder	1	2	T33441144
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:27 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-?710GQdsdiYzDCEZsK0AH8aB67ZoZciBDkISRNzURXY

2-8-0	8-0-4	13-2-12	18-5-4	23-7-12	29-0-0	32-4-0	35-11-8
2-8-0	5-4-4	5-2-8	5-2-8	5-2-8	5-4-4	3-4-0	3-7-8

Scale = 1:62.5



2-8-0	8-0-4	13-2-12	18-5-4	23-7-12	29-0-0	32-4-0	35-11-8
2-8-0	5-4-4	5-2-8	5-2-8	5-2-8	5-4-4	3-4-0	3-7-8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.17	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.22	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 567 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
10-11: 2x6 SP No.2

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

REACTIONS. (size) 21=0-3-8, 11=0-3-0
Max Horz 21=-134(LC 32)
Max Uplift 21=-1614(LC 8), 11=-1529(LC 9)
Max Grav 21=2724(LC 1), 11=2636(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1380/839, 2-3=-2981/1793, 3-4=-4085/2452, 4-6=-4398/2647, 6-7=-4398/2647, 7-8=-3929/2403, 8-9=-3157/1962, 9-10=-2432/1433, 1-21=-2734/1639, 10-11=-2559/1509
BOT CHORD 19-20=-751/1129, 17-19=-1829/2981, 16-17=-2464/4085, 15-16=-2337/3929, 13-15=-1600/2681, 12-13=-1222/2059
WEBS 2-20=-1675/960, 2-19=-1680/2817, 3-19=-1662/996, 3-17=-1022/1701, 4-17=-709/430, 4-16=-342/484, 6-16=-334/199, 7-16=-451/749, 7-15=-930/556, 8-15=-1120/1922, 9-13=-726/1029, 9-12=-1291/822, 1-20=-1400/2302, 10-12=-1385/2362

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=1614, 11=1529.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 51 lb up at 2-8-0, 77 lb down and 49 lb up at 4-8-12, 77 lb down and 49 lb up at 6-8-12, 77 lb down and 49 lb up at 8-8-12, 77 lb down and 49 lb up at 10-8-12, 76 lb down and 46 lb up at 12-8-12, 76 lb down and 46 lb up at 14-8-12, 76 lb down and 44 lb up at 15-10-0, 76 lb down and 46 lb up at 16-11-4, 76 lb down and 46 lb up at 18-11-4, 76 lb down and 46 lb up at 20-11-4, 76 lb down and 46 lb up at 22-11-4, 76 lb down and 46 lb up at 24-11-4, and 76 lb down and 46 lb up at 26-11-4, and 76 lb down and 49 lb up at 29-0-0 on top chord, and 143 lb down and 194 lb up at 2-8-0, 156 lb down and 130 lb up at 4-8-12, 156 lb down and 130 lb up at 6-8-12, 156 lb down and 130 lb up at 8-8-12, 156 lb down and 130 lb up at 10-8-12, 162 lb down and 135 lb up at 12-8-12, 162 lb down and 135 lb up at 14-8-12, 162 lb down and 135 lb up at 15-10-0, 162 lb down and 135 lb up at 16-11-4, 162 lb down and 135 lb up at 18-11-4, 162 lb down and 135 lb up at 20-11-4, 162 lb down and 135 lb up at 22-11-4, 162 lb down and 135 lb up at 24-11-4, and 162 lb down and 135 lb up at 26-11-4, and 432 lb down and 448 lb up at 28-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

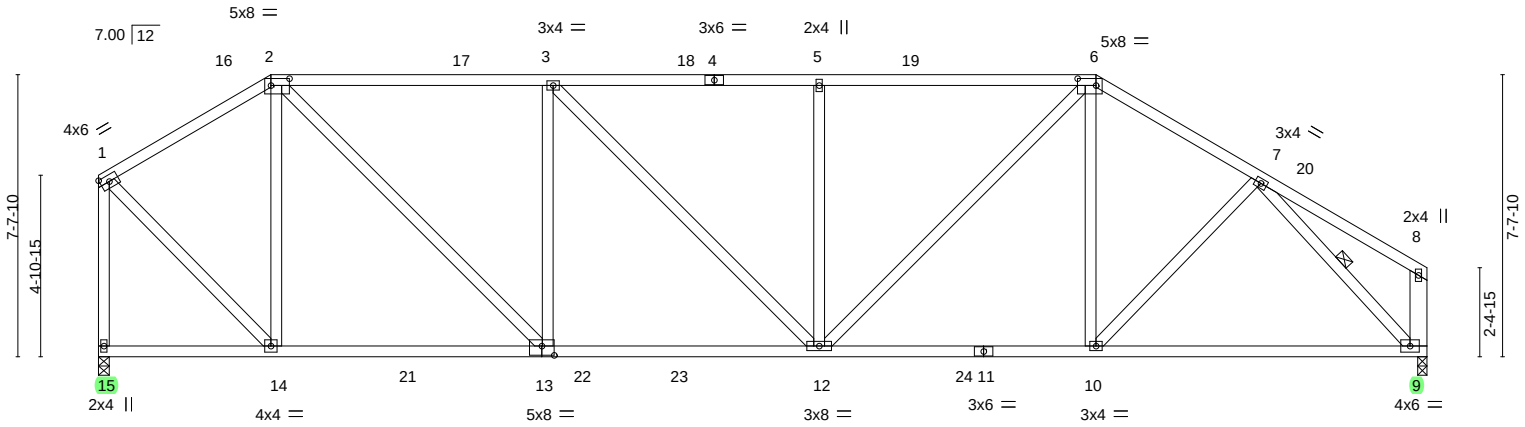
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-8=-54, 8-10=-54, 11-21=-20
   Concentrated Loads (lb)
   Vert: 2=-23(B) 5=-20(B) 8=-20(B) 20=-89(B) 13=-374(B) 22=-23(B) 23=-23(B) 24=-23(B) 25=-23(B) 26=-20(B) 27=-20(B) 28=-20(B) 29=-20(B) 30=-20(B) 31=-20(B) 32=-20(B) 33=-20(B) 34=-137(B) 35=-137(B) 36=-137(B) 37=-137(B) 38=-156(B) 39=-156(B) 40=-156(B) 41=-156(B) 42=-156(B) 43=-156(B) 44=-156(B) 45=-156(B) 46=-156(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441145
3926202	T21	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:27 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-?710GQdsdiYzDCEZsK0AH8a5u7UUZZXBDkISRNzURXY

4-8-0	12-1-15	19-6-1	27-0-0	31-4-0	35-11-8
4-8-0	7-5-15	7-4-3	7-5-15	4-4-0	4-7-8

Scale = 1:62.4



4-8-0	12-1-15	19-6-1	27-0-0	35-11-8
4-8-0	7-5-15	7-4-3	7-5-15	8-11-8

Plate Offsets (X,Y)-- [2:0-6-0,0-2-4], [6:0-6-0,0-2-4], [13:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.16	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.33	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 236 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-7-5 oc bracing: 12-13.
WEBS 1 Row at midpt 7-9

REACTIONS. (size) 15=0-3-8, 9=0-3-0
Max Horz 15=-165(LC 8)
Max Uplift 15=-337(LC 12), 9=-357(LC 13)
Max Grav 15=1495(LC 2), 9=1471(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1037/256, 2-3=-1671/434, 3-5=-1847/502, 5-6=-1847/502, 6-7=-1653/447, 1-15=-1440/346
BOT CHORD 13-14=-278/845, 12-13=-472/1683, 10-12=-269/1387, 9-10=-296/1158
WEBS 2-14=-612/231, 2-13=-363/1186, 3-13=-592/303, 3-12=-169/268, 5-12=-426/240, 6-12=-283/691, 7-10=-146/391, 1-14=-273/1201, 7-9=-1602/408

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-8-14, Zone1 3-8-14 to 4-8-0, Zone2 4-8-0 to 9-9-0, Zone1 9-9-0 to 27-0-0, Zone2 27-0-0 to 32-1-0, Zone1 32-1-0 to 35-8-12 zone; end vertical 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=337, 9=357.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

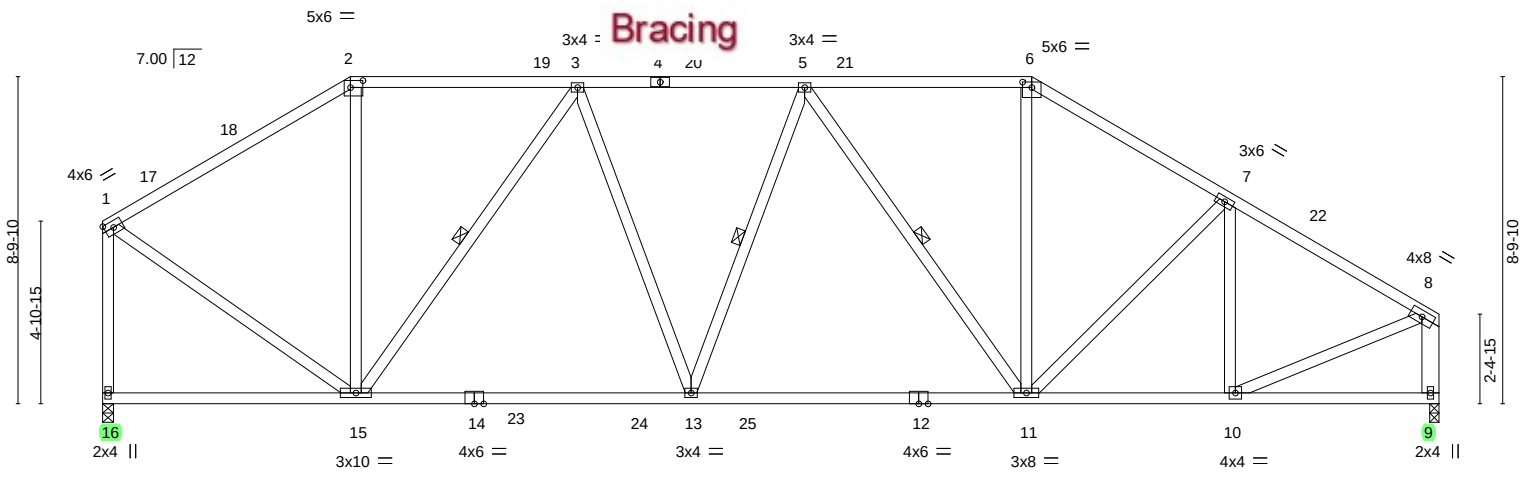
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441146
3926202	T22	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:28 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-TJbOTmeUO?gqrMpmQ1XPpL7EKXqLI4NKRO1?zpzURXX

6-8-0	12-9-5	18-10-11	25-0-0	30-4-0	35-11-8
6-8-0	6-1-5	6-1-5	6-1-5	5-4-0	5-7-8

Scale = 1:62.0



6-8-0	15-10-0	25-0-0	30-4-0	35-11-8
6-8-0	9-2-0	9-2-0	5-4-0	5-7-8

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

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	0.79	Vert(LL)	-0.21	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.36	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 242 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
12-14: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-11 oc bracing.
WEBS 1 Row at midpt 3-15, 5-13, 5-11

REACTIONS. (size) 16=0-3-8, 9=0-3-0
Max Horz 16=-194(LC 8)
Max Uplift 16=-333(LC 12), 9=-353(LC 13)
Max Grav 16=1485(LC 2), 9=1468(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1216/294, 2-3=-993/316, 3-5=-1597/402, 5-6=-1356/433, 6-7=-1626/450, 7-8=-1549/384, 1-16=-1396/346, 8-9=-1372/367
BOT CHORD 13-15=-388/1457, 11-13=-372/1582, 10-11=-297/1291
WEBS 2-15=-63/371, 3-15=-842/301, 3-13=-103/442, 5-11=-458/239, 6-11=-84/562, 7-10=-361/141, 1-15=-234/1179, 8-10=-283/1337

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-8-14, Zone1 3-8-14 to 6-8-0, Zone2 6-8-0 to 11-9-0, Zone1 11-9-0 to 25-0-0, Zone2 25-0-0 to 30-4-0, Zone1 30-4-0 to 35-8-12 zone; end vertical 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=333, 9=353.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441147
3926202	T23	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:29 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-xW9nh5f69JohTWOy_l2eMZgSMw8_1WvUg2nYWGzURXW

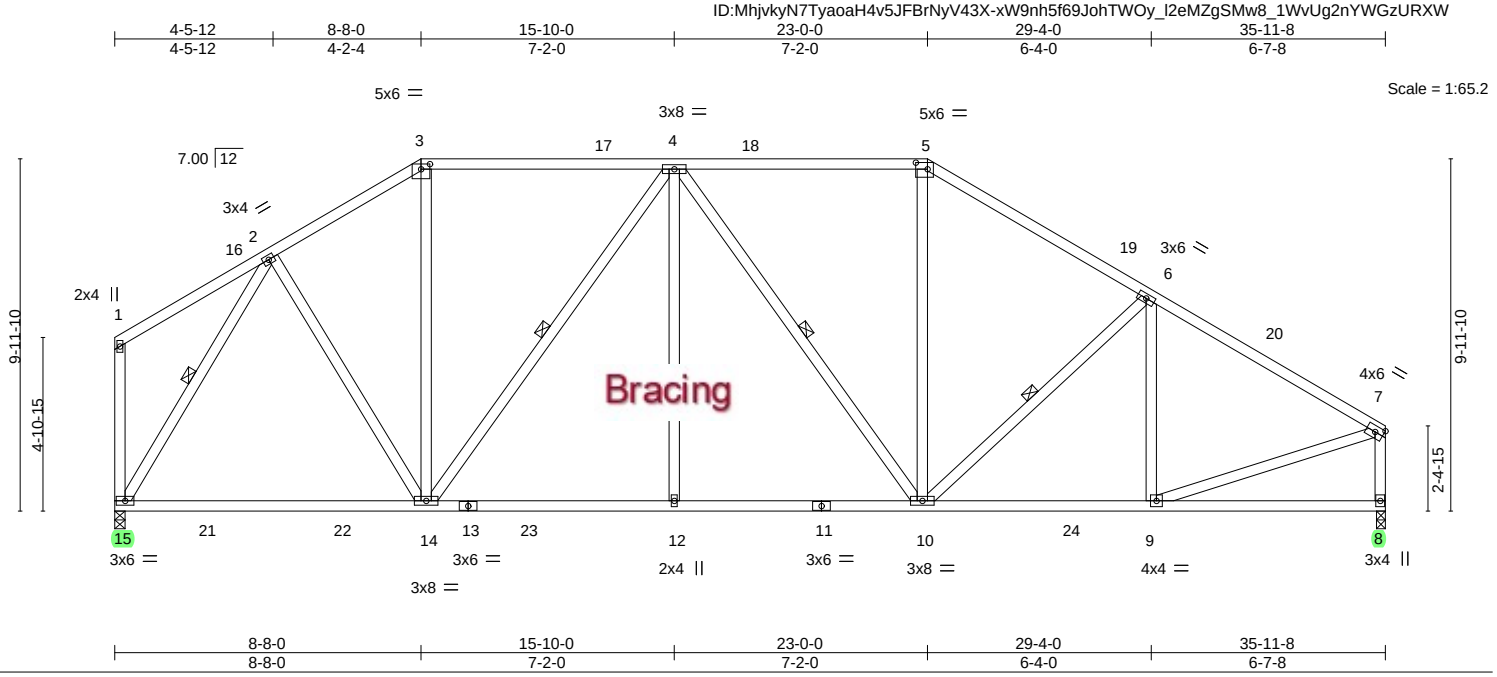


Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [5:0-4-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.27	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.44	14-15	>983	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 253 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 4-10, 6-10, 2-15

REACTIONS. (size) 15=0-3-8, 8=0-3-0
Max Horz 15=-223(LC 8)
Max Uplift 15=-328(LC 12), 8=-349(LC 13)
Max Grav 15=1537(LC 2), 8=1498(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1291/353, 3-4=-1079/344, 4-5=-1325/435, 5-6=-1606/443, 6-7=-1687/400, 7-8=-1396/364
BOT CHORD 14-15=-264/826, 12-14=-312/1447, 10-12=-312/1447, 9-10=-298/1403
WEBS 2-14=-154/583, 3-14=-87/403, 4-14=-667/242, 4-12=0/380, 4-10=-298/200, 5-10=-90/512, 6-10=-250/169, 6-9=-261/131, 2-15=-1476/316, 7-9=-272/1415

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-8-14, Zone1 3-8-14 to 8-8-0, Zone2 8-8-0 to 13-9-0, Zone1 13-9-0 to 23-0-0, Zone2 23-0-0 to 28-1-0, Zone1 28-1-0 to 35-9-12 zone; end vertical 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=328, 8=349.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T24	Hip	1	1	T33441148
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:29 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-xW9nh5f69JohTWOy_l2eMZgREwC31U8Ug2nYWGzURXW

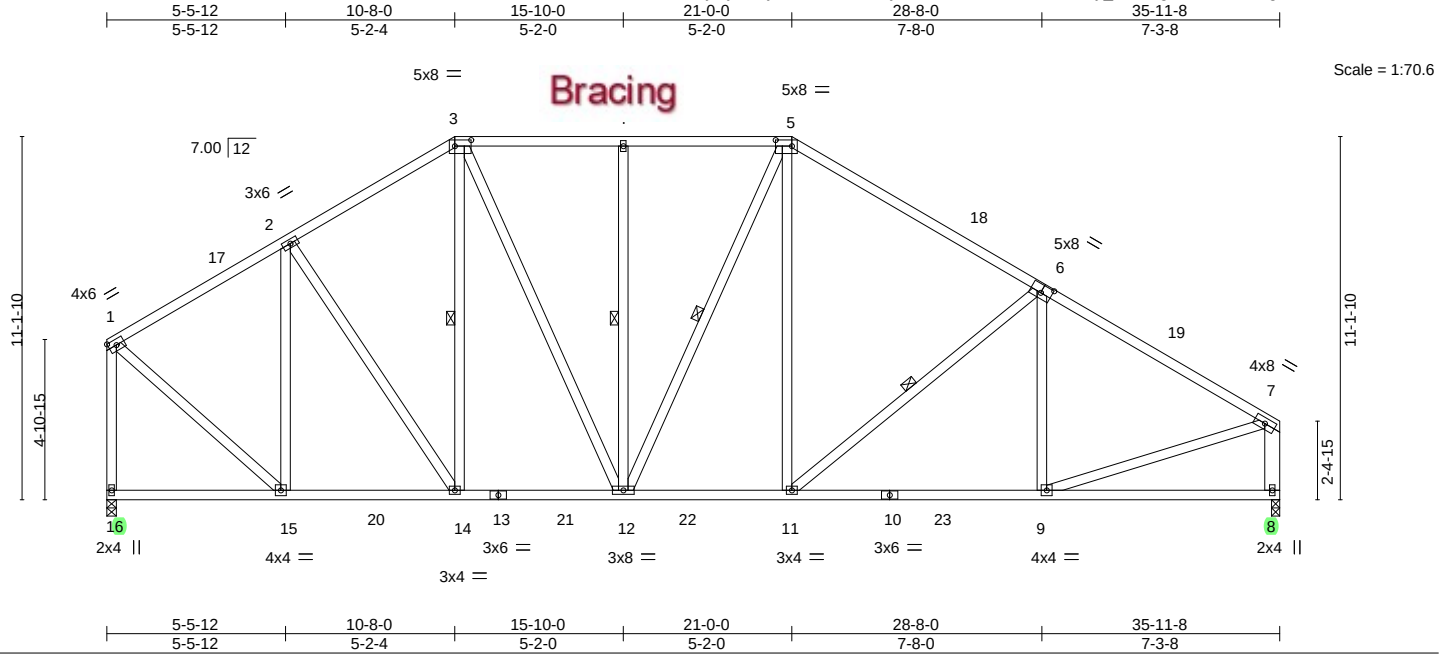


Plate Offsets (X,Y)-- [3:0-6-0,0-2-4], [5:0-6-0,0-2-4], [6:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.14	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 275 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-14, 4-12, 5-12, 6-11

REACTIONS. (size) 16=0-3-8, 8=0-3-0
Max Horz 16=-252(LC 8)
Max Uplift 16=-322(LC 12), 8=-342(LC 13)
Max Grav 16=1502(LC 2), 8=1490(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1108/264, 2-3=-1289/370, 3-4=-1245/387, 4-5=-1245/387, 5-6=-1518/418, 6-7=-1709/400, 1-16=-1422/334, 7-8=-1385/359
BOT CHORD 15-16=-242/254, 14-15=-255/990, 12-14=-235/1058, 11-12=-151/1233, 9-11=-293/1418
WEBS 2-15=-571/178, 2-14=-146/310, 3-12=-201/495, 4-12=-314/188, 5-11=-99/518, 6-11=-381/220, 1-15=-213/1195, 7-9=-260/1413

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-8-14, Zone1 3-8-14 to 10-8-0, Zone2 10-8-0 to 15-10-0, Zone1 15-10-0 to 21-0-0, Zone2 21-0-0 to 26-1-0, Zone1 26-1-0 to 35-8-12 zone; end vertical 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=322, 8=342.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T25	Piggyback Base	1	1	T33441149
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:30 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-Pij9uRfkwdwY4gz8YSZtumCc_KYImxOdviW62izURXV

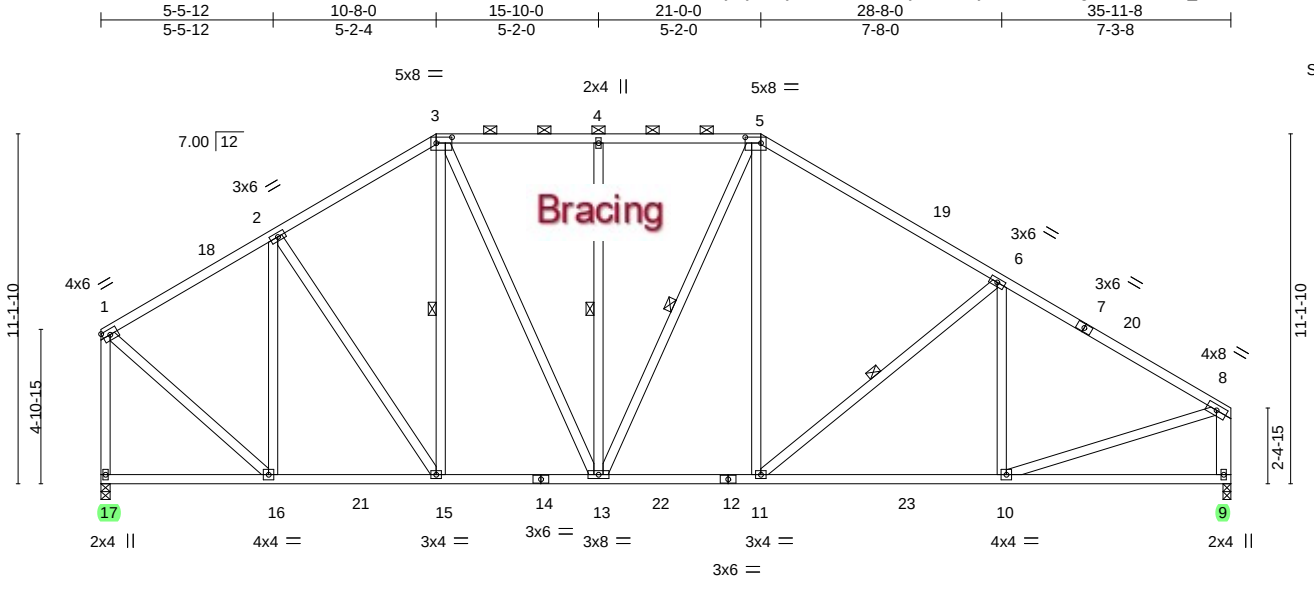


Plate Offsets (X,Y)-- [3:0-6-0,0-2-4], [5:0-6-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.14	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 275 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-15, 4-13, 5-13, 6-11

REACTIONS. (size) 17=0-3-8, 9=0-3-0
Max Horz 17=-252(LC 8)
Max Uplift 17=-322(LC 12), 9=-342(LC 13)
Max Grav 17=1503(LC 2), 9=1491(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1108/264, 2-3=-1290/370, 3-4=-1245/387, 4-5=-1245/387, 5-6=-1518/419, 6-8=-1709/399, 1-17=-1423/334, 8-9=-1385/359
BOT CHORD 16-17=-242/254, 15-16=-255/990, 13-15=-235/1059, 11-13=-151/1233, 10-11=-293/1418
WEBS 2-16=-571/178, 2-15=-146/310, 3-13=-201/495, 4-13=-314/188, 5-11=-100/519, 6-11=-381/220, 1-16=-213/1196, 8-10=-258/1411

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-8-14, Zone1 3-8-14 to 10-8-0, Zone2 10-8-0 to 15-10-0, Zone1 15-10-0 to 21-0-0, Zone2 21-0-0 to 26-1-0, Zone1 26-1-0 to 35-8-12 zone; end vertical 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=322, 9=342.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

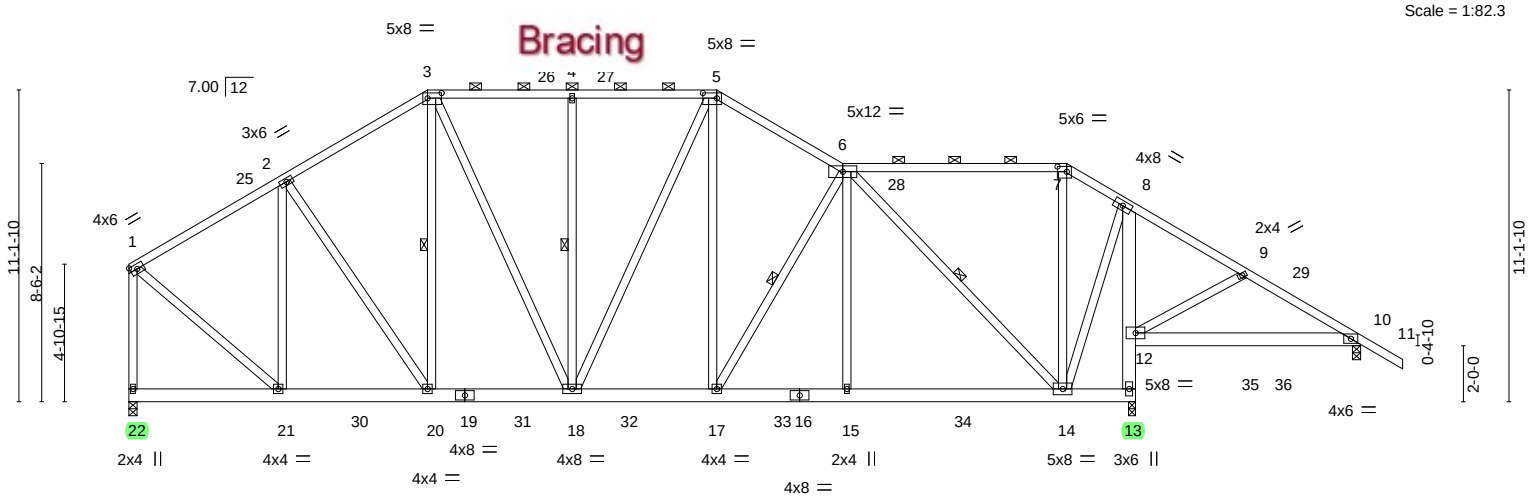
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441150
3926202	T26	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:31 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-tuHX6ngMhw2PipXK5956R_lkvkyMVKzn7MGfa8zURXU

5-5-12	10-8-0	15-10-0	21-0-0	25-6-0	33-6-0	35-11-8	39-9-4	44-0-0	45-6-0
5-5-12	5-2-4	5-2-0	5-2-0	4-6-0	8-0-0	2-5-8	3-9-12	4-2-12	1-6-0

Scale = 1:82.3



5-5-12	10-8-0	15-10-0	21-0-0	25-6-0	33-6-0	35-11-8	44-0-0
5-5-12	5-2-4	5-2-0	5-2-0	4-6-0	8-0-0	2-5-8	8-0-8

Plate Offsets (X,Y)-- [3:0-6-0,0-2-4], [5:0-6-0,0-2-4], [7:0-4-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.08	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.14	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 383 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-15 max.): 3-5, 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14
5-1-4 oc bracing: 12-13.
WEBS 1 Row at midpt 3-20, 4-18, 6-17, 6-14

REACTIONS. (size) 22=0-3-8, 13=0-3-0, 10=0-3-8
Max Horz 22=-233(LC 13)
Max Uplift 22=-273(LC 12), 13=-345(LC 13), 10=-179(LC 13)
Max Grav 22=1498(LC 2), 13=1938(LC 2), 10=346(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1114/240, 2-3=-1293/347, 3-4=-1251/373, 4-5=-1251/373, 5-6=-1464/400, 6-7=-378/273, 7-8=-444/280, 1-22=-1417/295
BOT CHORD 20-21=-252/992, 18-20=-250/1062, 17-18=-224/1221, 15-17=-236/1370, 14-15=-235/1376, 12-13=-1958/425, 8-12=-1693/286
WEBS 2-21=-561/174, 2-20=-147/305, 3-18=-199/500, 4-18=-320/186, 5-17=-192/474, 6-17=-327/251, 6-15=0/369, 6-14=-1436/231, 8-14=-259/1410, 9-12=-262/171, 1-21=-206/1195

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 4-6-9, Zone1 4-6-9 to 10-8-0, Zone2 10-8-0 to 16-10-11, Zone1 16-10-11 to 21-0-0, Zone3 21-0-0 to 25-6-0, Zone1 25-6-0 to 33-6-0, Zone2 33-6-0 to 39-11-1, Zone1 39-11-1 to 45-6-0 zone; porch 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=273, 13=345, 10=179.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441151
3926202	T27	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:32 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-L4rvJ7h_SEAGKz6XftcL_BIvm8HhEpnwM0?D6bzURXT

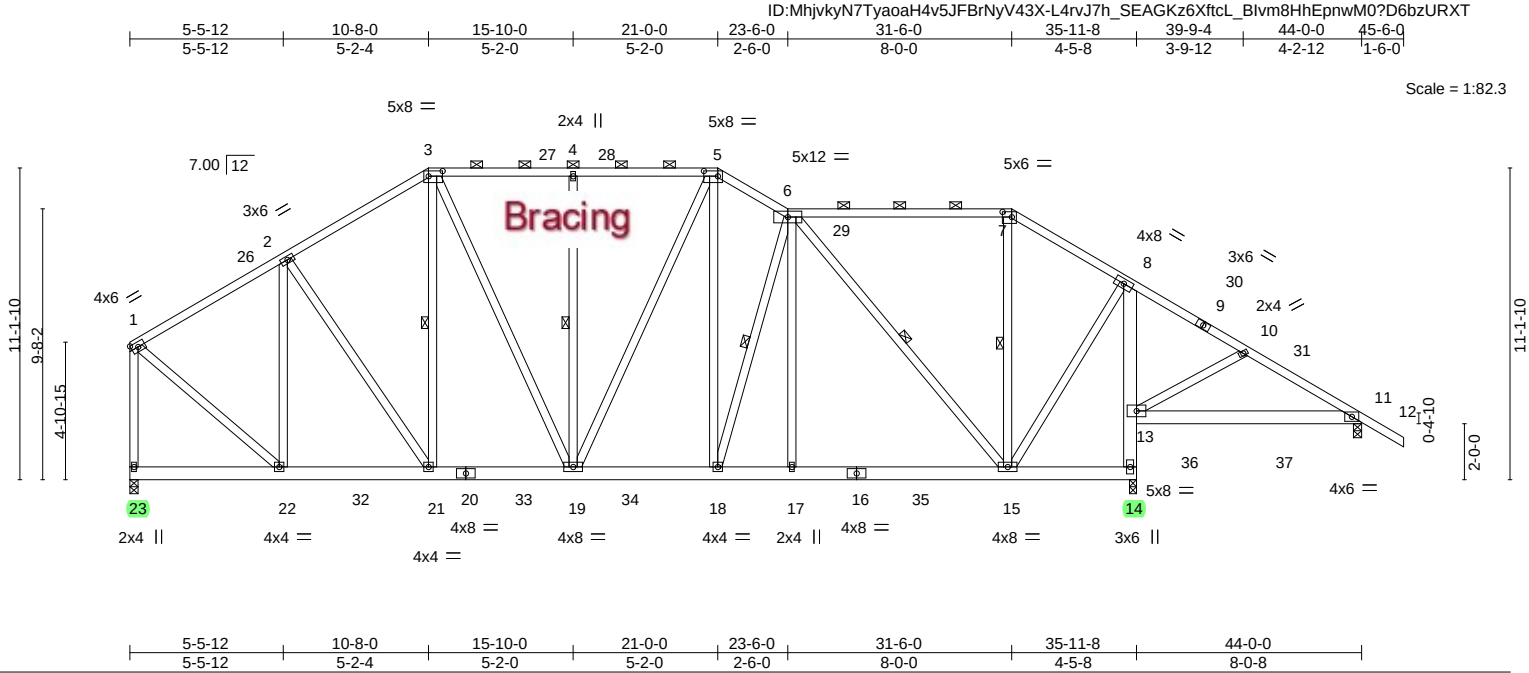


Plate Offsets (X,Y)-- [3:0-6-0,0-2-4], [5:0-6-0,0-2-4], [7:0-4-0,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	-0.08	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.14	15-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 389 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-0 max.): 3-5, 6-7.
BOT CHORD Rigid ceiling directly applied or 5-2-3 oc bracing.
WEBS 1 Row at midpt 3-21, 4-19, 6-18, 6-15, 7-15

REACTIONS. (size) 23=0-3-8, 14=0-3-0, 11=0-3-8
Max Horz 23=-233(LC 13)
Max Uplift 23=-272(LC 12), 14=-355(LC 13), 11=-171(LC 13)
Max Grav 23=1488(LC 2), 14=1929(LC 2), 11=332(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1106/239, 2-3=-1282/348, 3-4=-1238/375, 4-5=-1238/375, 5-6=-1427/424, 6-7=-588/319, 7-8=-721/322, 1-23=-1407/290
BOT CHORD 21-22=-264/986, 19-21=-267/1054, 18-19=-260/1201, 17-18=-274/1299, 15-17=-273/1303, 13-14=-1897/437, 8-13=-1634/304
WEBS 2-22=-559/174, 2-21=-146/299, 3-19=-198/491, 4-19=-324/185, 5-18=-248/511, 6-18=-394/271, 6-17=0/310, 6-15=-1108/245, 8-15=-245/1267, 10-13=-257/166, 1-22=-207/1187

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 4-6-9, Zone1 4-6-9 to 10-8-0, Zone2 10-8-0 to 16-10-11, Zone1 16-10-11 to 21-0-0, Zone3 21-0-0 to 23-6-0, Zone1 23-6-0 to 31-6-0, Zone2 31-6-0 to 37-8-11, Zone1 37-8-11 to 45-6-0 zone; porch 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=272, 14=355, 11=171.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T28	Piggyback Base	1	1	T33441152
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:32 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-L4rvJ7h_SEAGKz6XftcL_BIzO8HNEqHwM0?D6bzURXT

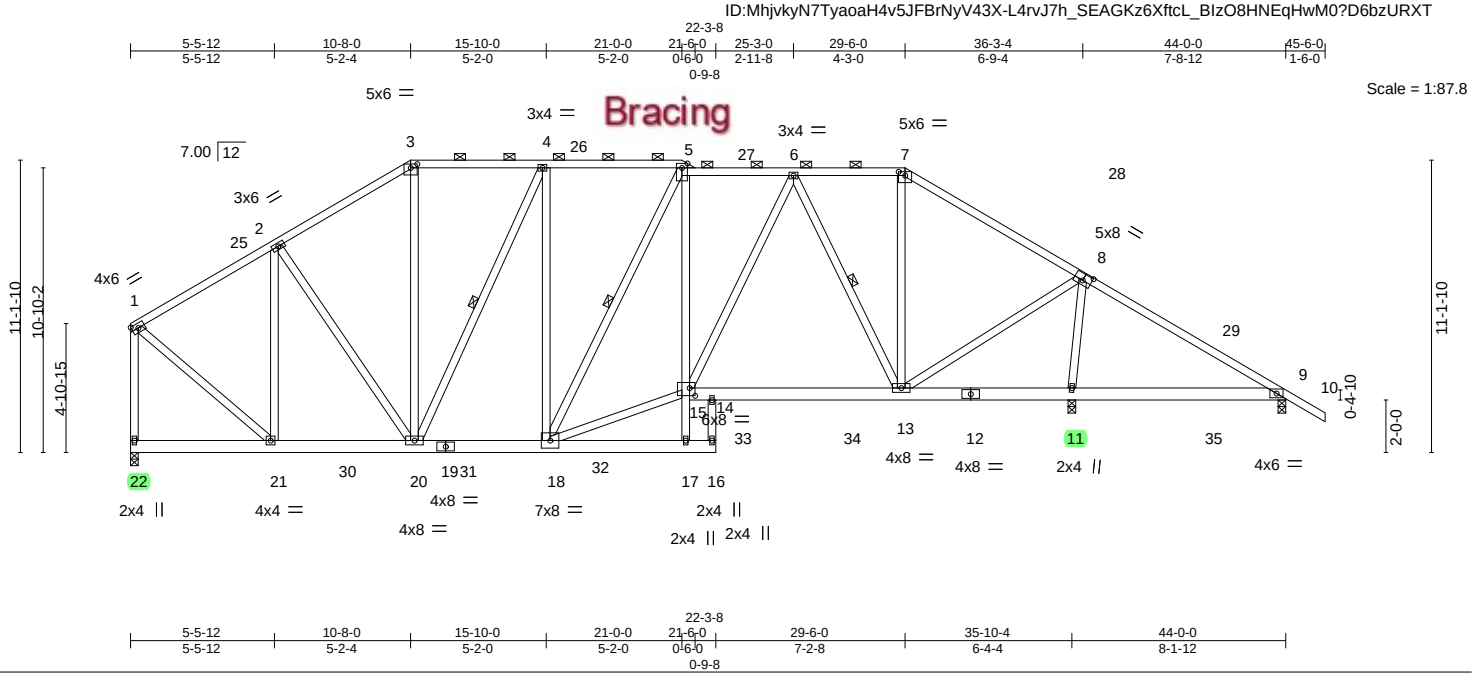


Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [7:0-3-0,0-1-12], [8:0-4-0,0-3-0], [15:0-2-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.11	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.18	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 368 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
14-16: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-11 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 6-13, 5-18

REACTIONS. (size) 22=0-3-8, 11=0-3-8, 9=0-3-8
Max Horz 22=-229(LC 8)
Max Uplift 22=-264(LC 12), 11=-390(LC 8), 9=-119(LC 13)
Max Grav 22=1440(LC 2), 11=2087(LC 2), 9=215(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1067/226, 2-3=-1228/324, 3-4=-1008/309, 4-5=-1178/337, 5-6=-1424/356, 6-7=-785/242, 7-8=-994/237, 8-9=-95/403, 1-22=-1359/277
BOT CHORD 20-21=-269/938, 18-20=-323/1182, 14-15=-286/1180, 13-14=-301/1161, 11-13=-468/149, 9-11=-299/111
WEBS 2-21=-544/158, 2-20=-162/278, 3-20=-64/394, 4-20=-446/237, 15-18=-375/1540, 15-17=0/366, 5-15=0/339, 6-13=-879/319, 7-13=-69/302, 8-13=-304/1481, 8-11=-1773/355, 1-21=-183/1142, 6-15=-151/614, 5-18=-581/121

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 4-6-9, Zone1 4-6-9 to 10-8-0, Zone2 10-8-0 to 16-10-11, Zone1 16-10-11 to 29-6-0, Zone2 29-6-0 to 35-8-11, Zone1 35-8-11 to 45-6-0 zone; porch 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=264, 11=390, 9=119.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T29	Piggyback Base	4	1	T33441153
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:33 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-qHOHWTicDYI7x7hjDa7aWPq8rYfBzJV4bglmf1zURXS

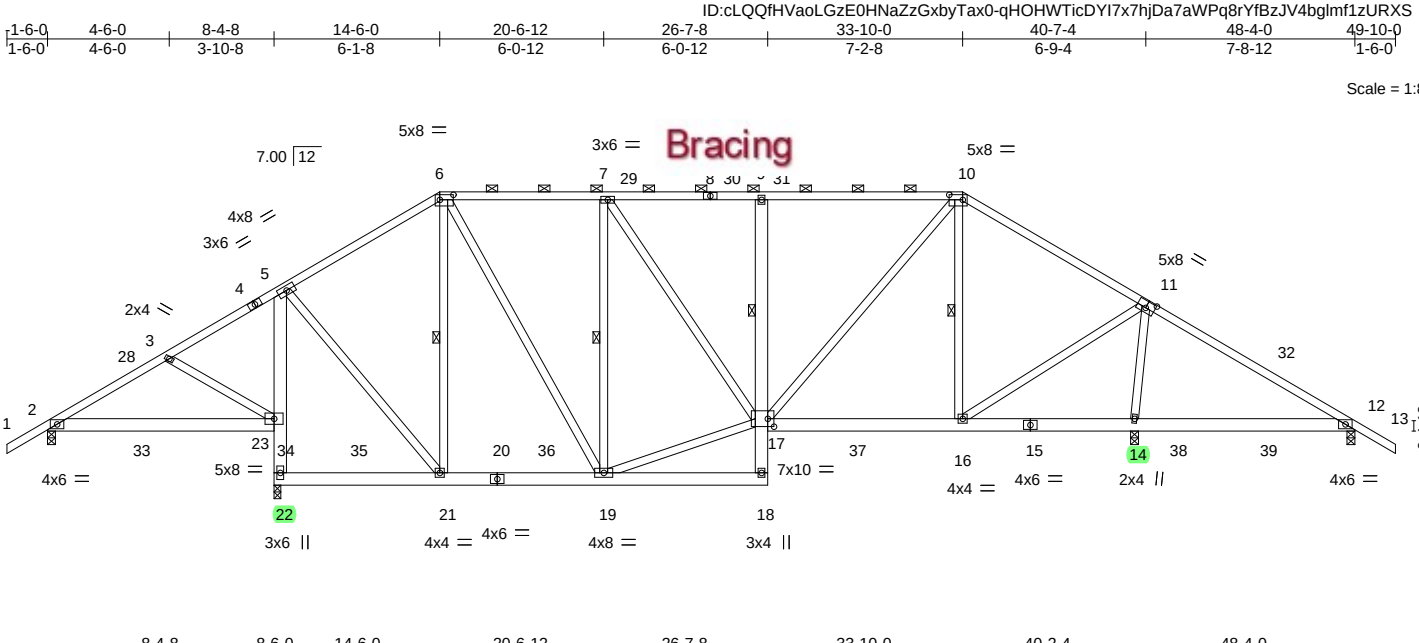


Plate Offsets (X,Y)-- [6:0-6-0,0-2-4], [10:0-6-0,0-2-4], [11:0-4-0,0-3-0], [17:0-2-12,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.08	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.14	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 373 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-7 oc purlins, except 2-0-0 oc purlins (4-9-13 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 5-7-13 oc bracing. Except:
1 Row at midpt 9-17
WEBS 1 Row at midpt 6-21, 7-19, 10-16

REACTIONS. All bearings 0-3-8 except (jt=length) 22=0-3-0.
(lb) - Max Horz 2=-231(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-136(LC 13), 22=-476(LC 9), 14=-449(LC 13), 12=-116(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=347(LC 25), 22=1728(LC 2), 14=1774(LC 2), 12=281(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-272/243, 3-5=-185/260, 5-6=-735/325, 6-7=-879/366, 7-9=-1110/411, 9-10=-1130/420, 10-11=-907/323
BOT CHORD 22-23=-1608/491, 5-23=-1338/402, 19-21=-137/566, 9-17=-391/223, 16-17=-124/702, 14-16=-277/147
WEBS 3-23=-252/163, 5-21=-239/961, 6-21=-502/219, 6-19=-211/646, 7-19=-650/259, 17-19=-208/880, 7-17=-90/411, 10-17=-245/677, 10-16=-427/183, 11-16=-237/1162, 11-14=-1457/459

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-4-0, Zone1 3-4-0 to 14-6-0, Zone2 14-6-0 to 21-4-0, Zone1 21-4-0 to 33-10-0, Zone2 33-10-0 to 40-8-0, Zone1 40-8-0 to 49-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2, 476 lb uplift at joint 22, 449 lb uplift at joint 14 and 116 lb uplift at joint 12.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

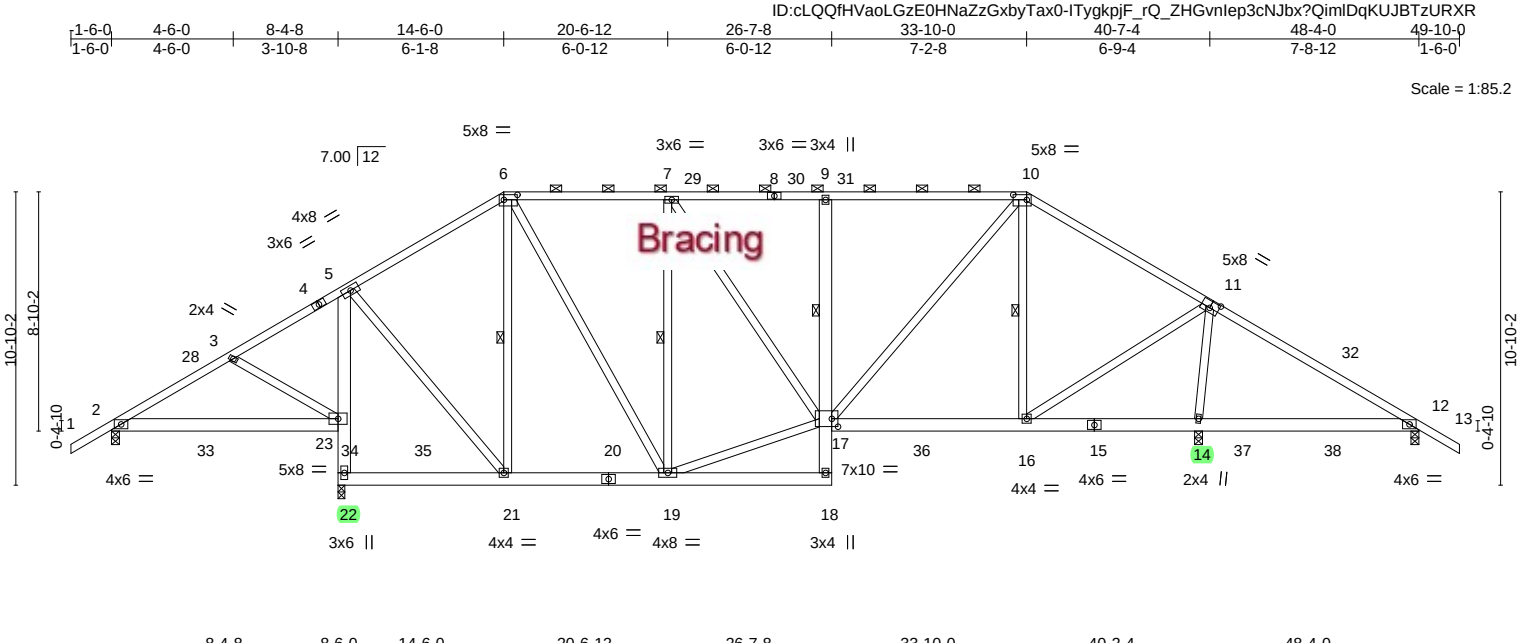
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T30	Piggyback Base	2	1	T33441154
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:34 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-ITygkpjF_rQ_ZHGvnIep3cNJbx?QimlDqKUJBTzURXR



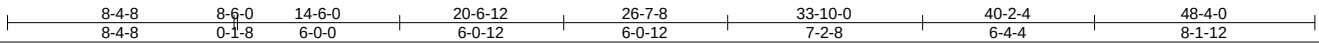


Plate Offsets (X,Y)-- [6:0-6-0,0-2-4], [10:0-6-0,0-2-4], [11:0-4-0,0-3-0], [17:0-2-12,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.08	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.14	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 373 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-7 oc purlins, except 2-0-0 oc purlins (4-9-13 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 5-7-13 oc bracing. Except:
1 Row at midpt 9-17
WEBS 1 Row at midpt 6-21, 7-19, 10-16

REACTIONS. All bearings 0-3-8 except (jt=length) 22=0-3-0.
(lb) - Max Horz 2=-231(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-136(LC 13), 22=-476(LC 9), 14=-449(LC 13), 12=-116(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=347(LC 25), 22=1729(LC 2), 14=1774(LC 2), 12=281(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-272/243, 3-5=-185/260, 5-6=-736/325, 6-7=-880/366, 7-9=-1110/411, 9-10=-1131/420, 10-11=-907/323
BOT CHORD 22-23=-1609/491, 5-23=-1339/402, 19-21=-137/566, 9-17=-391/223, 16-17=-124/702, 14-16=-277/147
WEBS 3-23=-252/163, 5-21=-239/962, 6-21=-502/219, 6-19=-211/646, 7-19=-650/259, 17-19=-208/880, 7-17=-90/411, 10-17=-245/677, 10-16=-427/183, 11-16=-237/1162, 11-14=-1457/459

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-4-0, Zone1 3-4-0 to 14-6-0, Zone2 14-6-0 to 21-4-0, Zone1 21-4-0 to 33-10-0, Zone2 33-10-0 to 40-8-0, Zone1 40-8-0 to 49-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2, 476 lb uplift at joint 22, 449 lb uplift at joint 14 and 116 lb uplift at joint 12.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

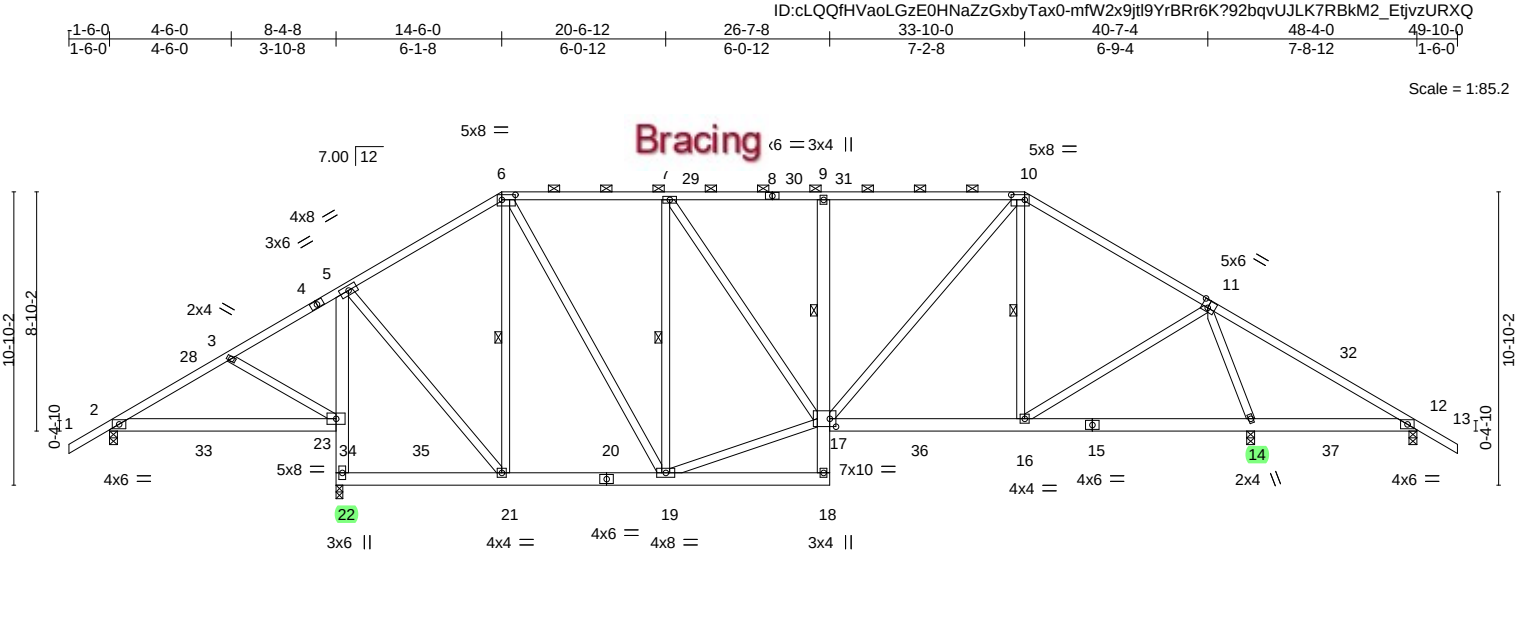
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T31	Piggyback Base	2	1	T33441155
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:35 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-mfW2x9jtl9YrBRr6K?92bqvUJLK7RBkM2_EtjvzURXQ



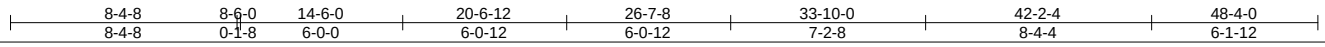


Plate Offsets (X,Y)-- [6:0-6-0,0-2-4], [10:0-6-0,0-2-4], [11:0-2-12,0-3-4], [17:0-2-12,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.08	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.14	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 373 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins, except
2-0-0 oc purlins (4-5-11 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 5-6-1 oc bracing. Except:
1 Row at midpt 9-17
WEBS 1 Row at midpt 6-21, 7-19, 10-16

REACTIONS. All bearings 0-3-8 except (jt=length) 22=0-3-0.
(lb) - Max Horz 2=-231(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 2=-135(LC 13), 22=-484(LC 9), 14=-470(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12 except 2=345(LC 25), 22=1811(LC 2), 14=1873(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-268/242, 3-5=-184/264, 5-6=-786/338, 6-7=-969/389, 7-9=-1272/454, 9-10=-1293/463, 10-11=-1184/392, 11-12=-92/463
BOT CHORD 22-23=-1691/499, 5-23=-1421/415, 19-21=-141/609, 9-17=-390/223, 16-17=-146/946, 12-14=-328/166
WEBS 3-23=-252/163, 5-21=-246/1034, 6-21=-550/224, 6-19=-231/737, 7-19=-746/283, 17-19=-216/960, 7-17=-114/538, 10-17=-236/571, 11-16=-202/858, 11-14=-1638/501

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-4-0, Zone1 3-4-0 to 14-6-0, Zone2 14-6-0 to 21-4-0, Zone1 21-4-0 to 33-10-0, Zone2 33-10-0 to 40-8-0, Zone1 40-8-0 to 49-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=135, 22=484, 14=470.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

April 4,2024

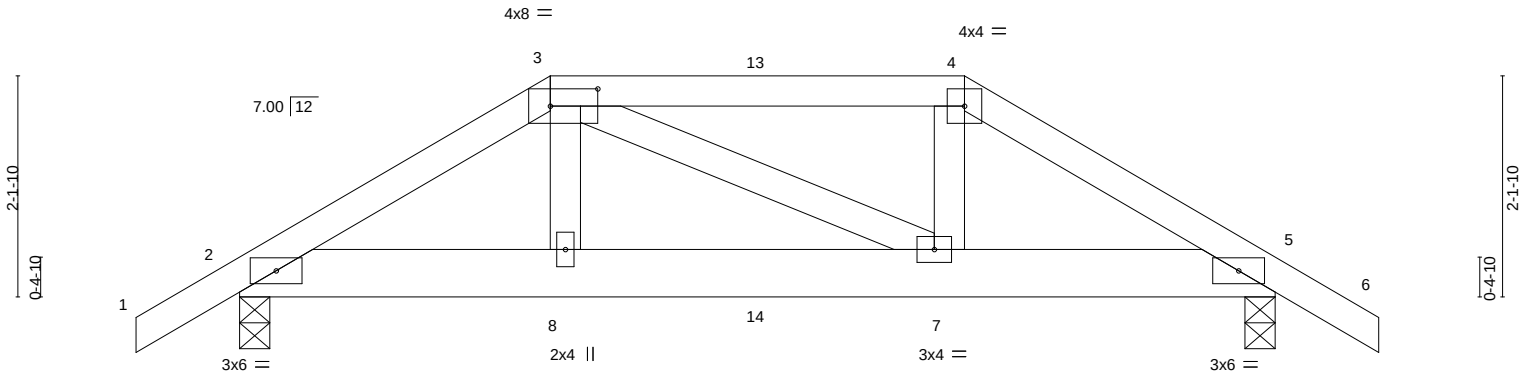
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES. T33441156
3926202	T32	HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:35 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-mfW2x9jtl9YrBRr6K?92bqvaCLNiRLmM2_EtjvzURXQ

-1-0-0 1-0-0 | 3-0-0 3-0-0 | 7-0-0 4-0-0 | 10-0-0 3-0-0 | 11-0-0 1-0-0

Scale = 1:22.2



3-1-12 3-1-12 | 6-10-4 3-8-8 | 10-0-0 3-1-12

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

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	0.24	Vert(LL)	0.02	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 53 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=-58(LC 6)
Max Uplift 2=-265(LC 8), 5=-264(LC 9)
Max Grav 2=576(LC 1), 5=577(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-835/409, 3-4=-718/378, 4-5=-831/403
BOT CHORD 2-8=-339/703, 7-8=-346/721, 5-7=-308/700

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=265, 5=264.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 51 lb up at 3-0-0, and 74 lb down and 48 lb up at 5-0-12, and 74 lb down and 51 lb up at 7-0-0 on top chord, and 129 lb down and 106 lb up at 3-0-0, and 28 lb down and 11 lb up at 5-0-12, and 129 lb down and 106 lb up at 6-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-6=-54, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-11(F) 4=-11(F) 8=-129(F) 7=-129(F) 13=-11(F) 14=-14(F)

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

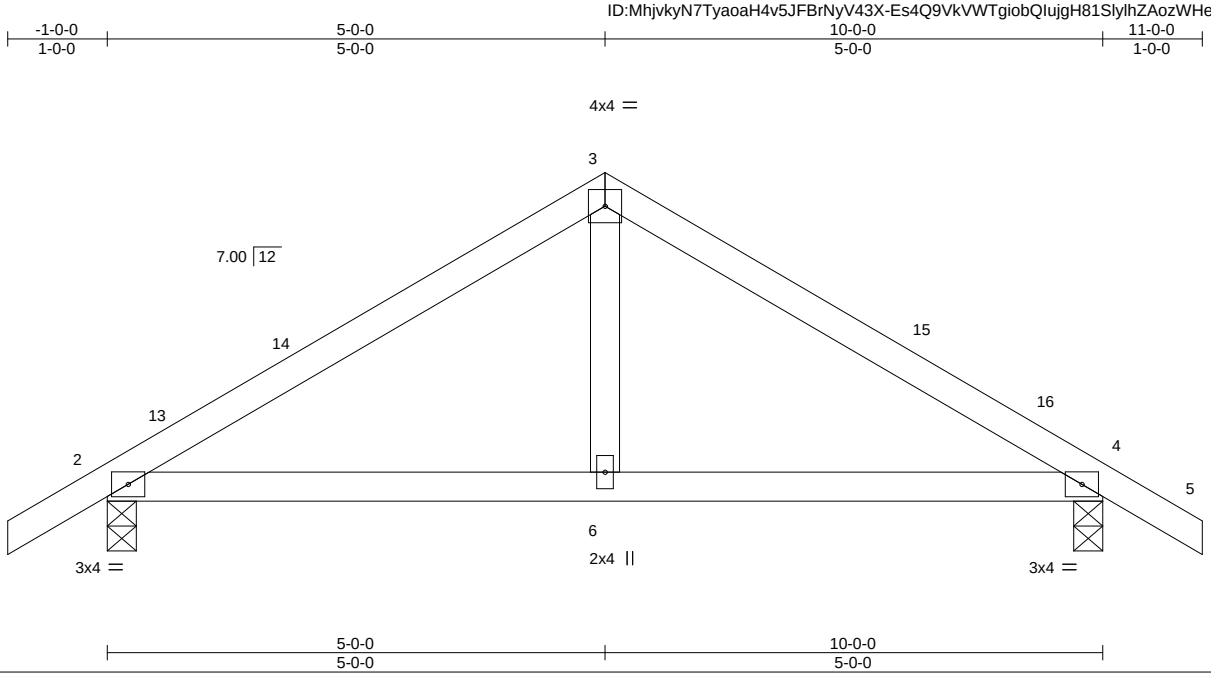
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T33	KINGPOST	4	1	T33441157
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:36 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-Es4Q9VkVWTgiobQIujgH81SlylhZAozWHezQFMzURXP



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.02	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.04	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 40 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=86(LC 11)
Max Uplift 2=-118(LC 12), 4=-118(LC 13)
Max Grav 2=424(LC 1), 4=424(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-466/196, 3-4=-466/196
BOT CHORD 2-6=-58/351, 4-6=-58/351

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 5-0-0, Zone2 5-0-0 to 9-2-15, Zone1 9-2-15 to 11-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=118, 4=118.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

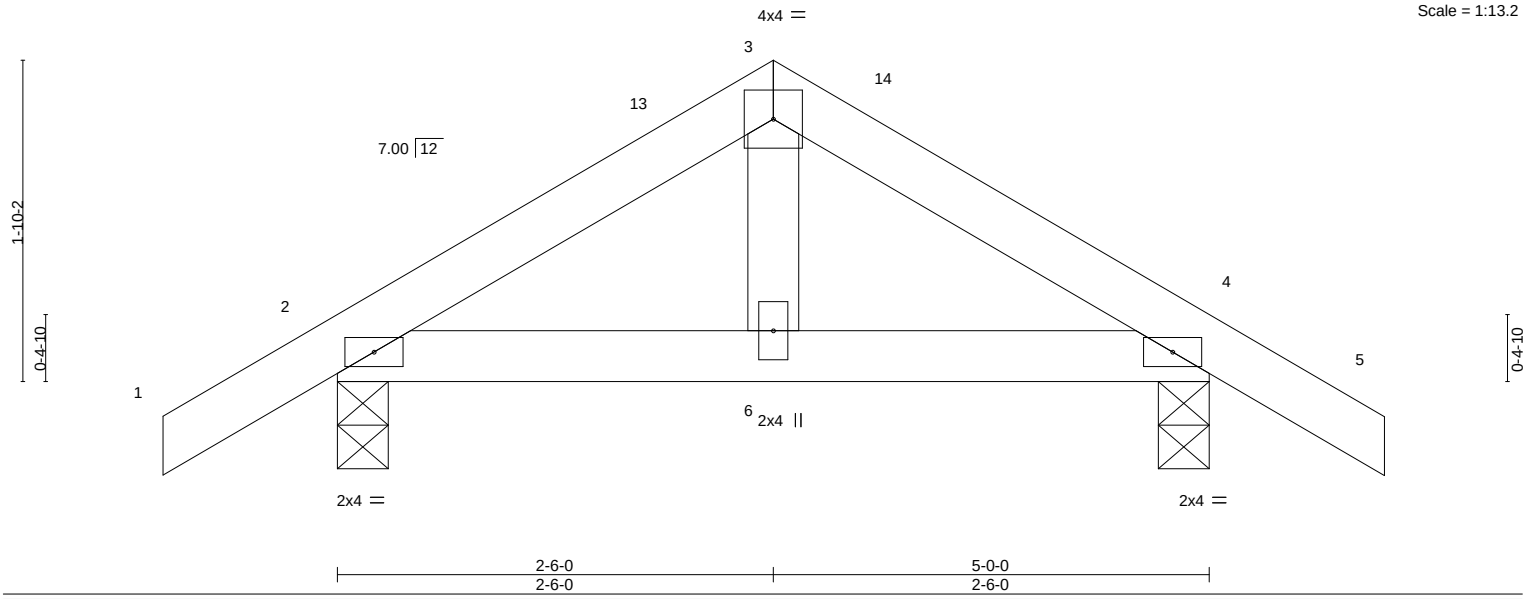
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T34	KINGPOST	8	1	T33441158
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:36 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-Es4Q9VkVWTgiobQIujgH81SnIlkcAphWHezQFMzURXP



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 22 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-51(LC 10)
Max Uplift 2=-73(LC 12), 4=-73(LC 13)
Max Grav 2=239(LC 1), 4=239(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 2-6-0, Zone3 2-6-0 to 6-0-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

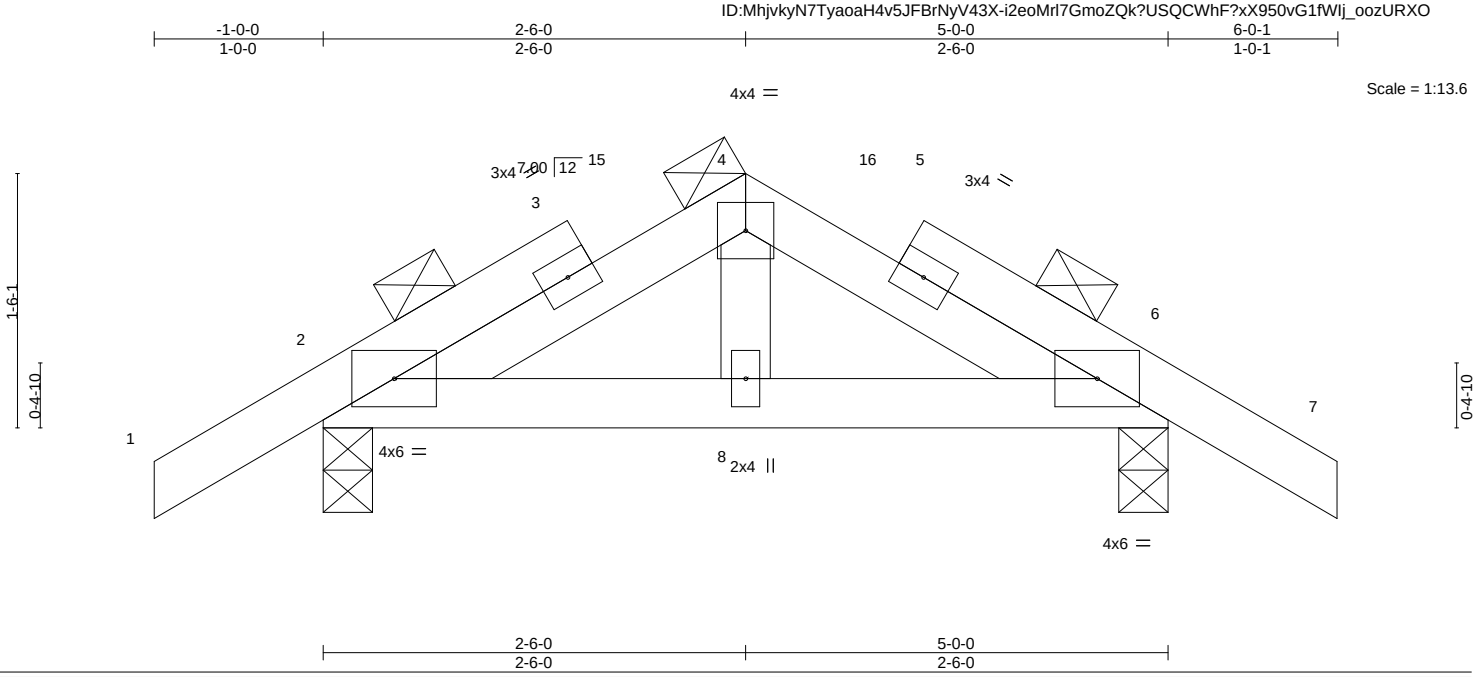
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - MALOY RES.
3926202	T34G	KINGPOST	2	1	T33441159
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:32:37 2024 Page 1
ID:MhjvkyN7TyaoaH4v5JFBrNyV43X-i2eoMrI7GmoZQk?USQCWhF?xX950vG1fWIj_oozURXO



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	0.12	Vert(LL)	-0.00	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-42(LC 10)
Max Uplift 2=-76(LC 12), 6=-76(LC 13)
Max Grav 2=236(LC 1), 6=236(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 2-6-0, Zone3 2-6-0 to 6-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

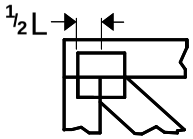
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

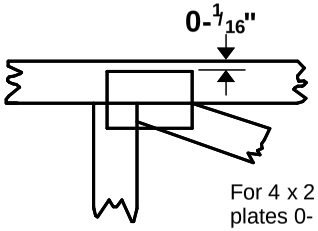
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

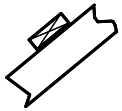
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

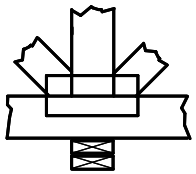
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

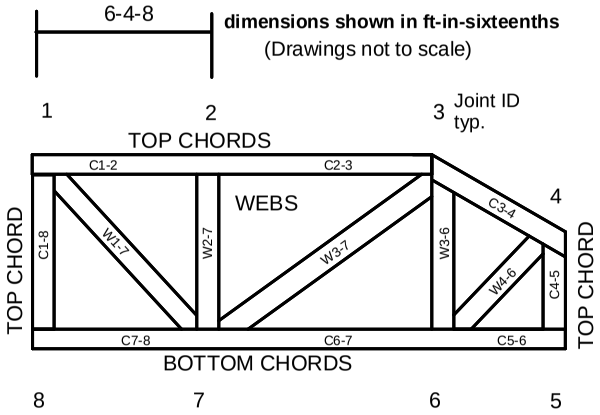


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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.

MiTek®

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.